

Cover Page

Order ID : P5380

Project ID : Ft Meade Tipton Airfield Parcel RI - PO 0111169

Client : Weston Solutions

Lab Sample Number

P5380-01
P5380-02

Client Sample Number

TAPIAL3-IDW-SOIL-122024-T1
TAPIAL3-IDW-SOIL-122024-T1

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

Signature : _____

Date: 12/30/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5380

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: NILESH PRAJAPATI

Date: 12/30/2024

LAB CHRONICLE

OrderID: P5380	OrderDate: 12/23/2024 9:50:00 AM
Client: Weston Solutions	Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact: Nathan Fretz	Location: N31

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5380-02	TAPIAL3-IDW-SOIL-1 22024-T1	TCLP	TCLP VOA	8260D	12/20/24		12/27/24	12/21/24



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

Hit Summary Sheet
SW-846

SDG No.: P5380
Client: Weston Solutions

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	TAPIAL3-IDW-SOIL-122024-T1								
P5380-02	TAPIAL3-IDW-SOIL	TCLP	Chloroform	2.30	J	0.26	0.50	5.00	ug/L
			Total Voc :	2.30					
			Total Concentration:	2.30					



QC SUMMARY

Surrogate Summary

SDG No.: P5380

Client: Weston Solutions

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	1,2-Dichloroethane-d4	50	56.1	112	81	118
		Dibromofluoromethane	50	52.6	105	80	119
		Toluene-d8	50	54.8	110	89	112
		4-Bromofluorobenzene	50	53.0	106	85	114
VN1227WBL01	VN1227WBL01	1,2-Dichloroethane-d4	50	55.9	112	81	118
		Dibromofluoromethane	50	52.6	105	80	119
		Toluene-d8	50	53.1	106	89	112
		4-Bromofluorobenzene	50	49.0	98	85	114
VN1227WBS01	VN1227WBS01	1,2-Dichloroethane-d4	50	50.1	100	81	118
		Dibromofluoromethane	50	49.7	99	80	119
		Toluene-d8	50	50.6	101	89	112
		4-Bromofluorobenzene	50	50.5	101	85	114
VN1227WBSD0	VN1227WBSD01	1,2-Dichloroethane-d4	50	54.3	108	81	118
		Dibromofluoromethane	50	50.8	102	80	119
		Toluene-d8	50	51.9	104	89	112
		4-Bromofluorobenzene	50	52.3	105	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **P5380**

Client: **Weston Solutions**

Analytical Method: **SW8260D**

Datafile : VN085330.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1227WBS01	Vinyl chloride	20	16.8	ug/L	84			58	137	
	1,1-Dichloroethene	20	17.4	ug/L	87			71	131	
	2-Butanone	100	96.2	ug/L	96			56	143	
	Carbon Tetrachloride	20	17.6	ug/L	88			72	136	
	Chloroform	20	17.4	ug/L	87			79	124	
	Benzene	20	17.5	ug/L	88			79	120	
	1,2-Dichloroethane	20	17.3	ug/L	86			73	128	
	Trichloroethene	20	16.8	ug/L	84			79	123	
	Tetrachloroethene	20	18.0	ug/L	90			74	129	
	Chlorobenzene	20	17.7	ug/L	89			82	118	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5380

Client: Weston Solutions

Analytical Method: SW8260D

Datafile : VN085331.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1227WBSD01	Vinyl chloride	20	18.6	ug/L	93	10		58	137	20
	1,1-Dichloroethene	20	18.6	ug/L	93	7		71	131	20
	2-Butanone	100	110	ug/L	110	14		56	143	20
	Carbon Tetrachloride	20	19.3	ug/L	97	10		72	136	20
	Chloroform	20	19.1	ug/L	96	10		79	124	20
	Benzene	20	19.5	ug/L	98	11		79	120	20
	1,2-Dichloroethane	20	19.7	ug/L	99	14		73	128	20
	Trichloroethene	20	18.5	ug/L	93	10		79	123	20
	Tetrachloroethene	20	18.9	ug/L	95	5		74	129	20
	Chlorobenzene	20	18.6	ug/L	93	4		82	118	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1227WBL01

Lab Name: CHEMTECH

Contract: WEST04

Lab Code: CHEM Case No.: P5380

SAS No.: P5380 SDG NO.: P5380

Lab File ID: VN085329.D

Lab Sample ID: VN1227WBL01

Date Analyzed: 12/27/2024

Time Analyzed: 16:33

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
VN1227WBS01	VN1227WBS01	VN085330.D	12/27/2024
VN1227WBSD01	VN1227WBSD01	VN085331.D	12/27/2024
TAPIAL3-IDW-SOIL-122024-T1	P5380-02	VN085334.D	12/27/2024

COMMENTS: _____



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WEST04
Lab Code: CHEM Case No.: P5380 SAS No.: P5380 SDG NO.: P5380
Lab File ID: VN085320.D BFB Injection Date: 12/27/2024
Instrument ID: MSVOA_N BFB Injection Time: 09:52
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	22.4
75	30.0 - 60.0% of mass 95	58
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	73.9
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	73.2 (99) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 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	VN085321.D	12/27/2024	10:26
VSTDICCC050	VSTDICCC050	VN085322.D	12/27/2024	10:50
VSTDICC020	VSTDICC020	VN085323.D	12/27/2024	11:13
VSTDICC010	VSTDICC010	VN085324.D	12/27/2024	11:37
VSTDICC005	VSTDICC005	VN085325.D	12/27/2024	12:01
VSTDICC001	VSTDICC001	VN085326.D	12/27/2024	12:48
VN1227WBL01	VN1227WBL01	VN085329.D	12/27/2024	16:33
VN1227WBS01	VN1227WBS01	VN085330.D	12/27/2024	16:57
VN1227WBSD01	VN1227WBSD01	VN085331.D	12/27/2024	17:30
TAPIAL3-IDW-SOIL-122024-T1	P5380-02	VN085334.D	12/27/2024	18:42
VSTDCCC050EC	VSTDCCC050	VN085337.D	12/27/2024	19:54

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WEST04
Lab Code: CHEM Case No.: P5380 SAS No.: P5380 SDG NO.: P5380
Lab File ID: VN085322.D Date Analyzed: 12/27/2024
Instrument ID: MSVOA_N Time Analyzed: 10:50
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	155532	8.22	278404	9.09	240680	11.86
UPPER LIMIT	311064	8.718	556808	9.594	481360	12.359
LOWER LIMIT	77766	7.718	139202	8.594	120340	11.359
EPA SAMPLE NO.						
TAPIAL3-IDW-SOIL-122024-T1	141875	8.22	270279	9.10	246031	11.87
VN1227WBL01	146718	8.22	272578	9.10	232422	11.87
VN1227WBS01	170735	8.22	303482	9.10	253770	11.87
VN1227WBSD01	144320	8.22	258119	9.10	226359	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: WEST04
 Lab Code: CHEM Case No.: P5380 SAS No.: P5380 SDG NO.: P5380
 Lab File ID: VN085322.D Date Analyzed: 12/27/2024
 Instrument ID: MSVOA_N Time Analyzed: 10:50
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	113462	13.788				
UPPER LIMIT	226924	14.288				
LOWER LIMIT	56731	13.288				
EPA SAMPLE NO.						
TAPIAL3-IDW-SOIL-122024-T1	98028	13.79				
VN1227WBL01	90060	13.79				
VN1227WBS01	111138	13.79				
VN1227WBSD01	101437	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

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/20/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/21/24
Client Sample ID:	TAPIAL3-IDW-SOIL-122024-T1	SDG No.:	P5380
Lab Sample ID:	P5380-02	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :	SW5035	Level :	LOW
		Final Vol:	5000
		Test:	TCLP VOA

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085334.D	1		12/27/24 18:42	VN122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	5.00	ug/L
67-66-3	Chloroform	2.30	J	0.26	0.50	5.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.24	0.75	5.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	5.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	5.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.2		81 - 118		112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	54.8		89 - 112		110%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.0		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	142000	8.224				
540-36-3	1,4-Difluorobenzene	270000	9.1				
3114-55-4	Chlorobenzene-d5	246000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	98000	13.788				

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\VN122724\
 Data File : VN085334.D
 Acq On : 27 Dec 2024 18:42
 Operator : JC\MD
 Sample : P5380-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TAPIAL3-IDW-SOIL-122024-T1

Quant Time: Dec 28 01:45:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

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

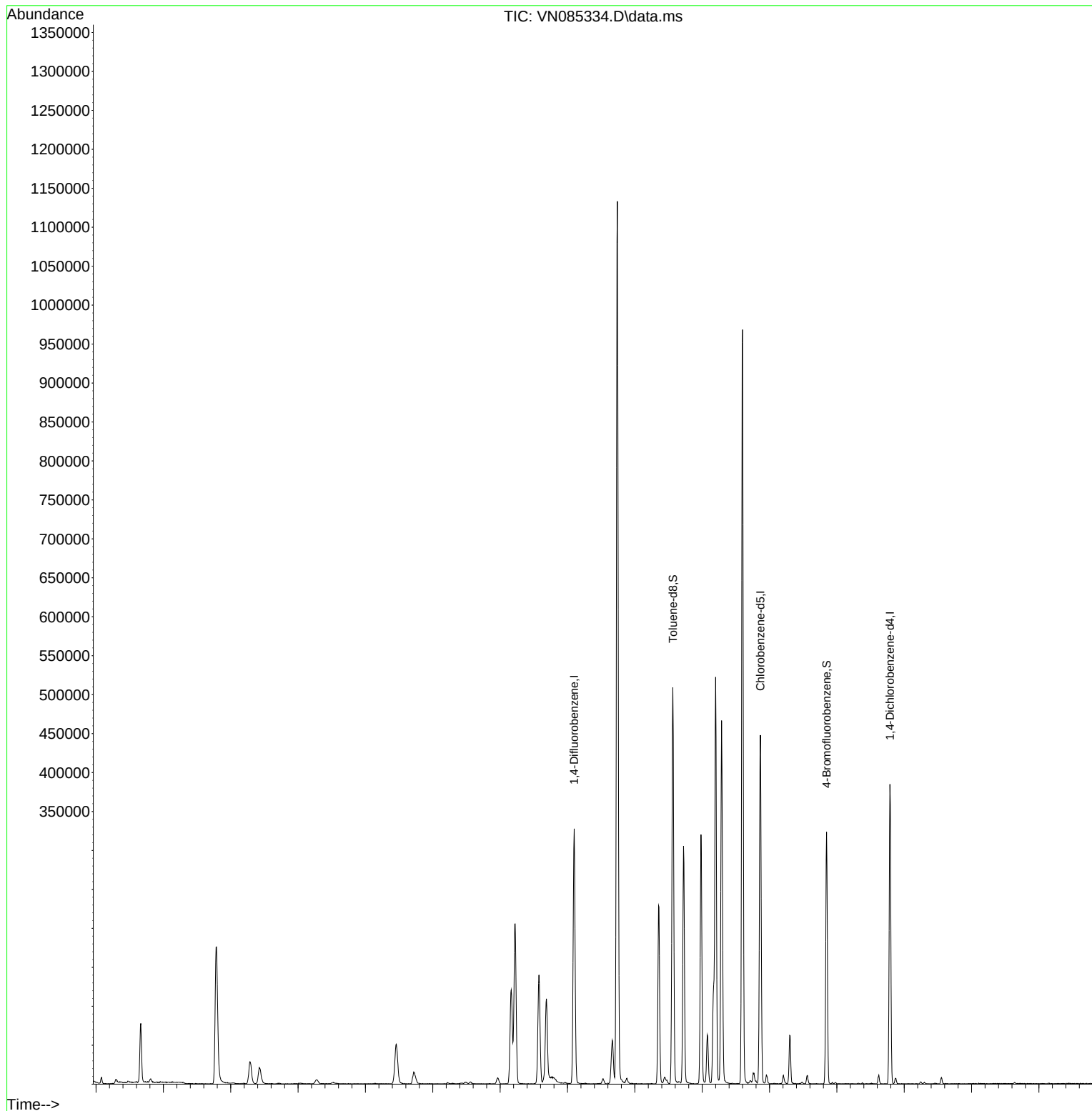
Internal Standards						
1) Pentafluorobenzene	8.224	168	141875	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	270279	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	246031	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	98028	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	113623	56.151	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	112.300%	
35) Dibromofluoromethane	8.165	113	88760	52.641	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	105.280%	
50) Toluene-d8	10.565	98	338827	54.761	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	109.520%	
62) 4-Bromofluorobenzene	12.847	95	108857	52.974	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	105.940%	
Target Compounds						
16) Acetone	4.424	43	40975	61.580	ug/l	99
20) Methylene Chloride	5.277	84	4228	2.362	ug/l	88
30) Chloroform	7.965	83	7841	2.340	ug/l #	73
43) Isopropyl Acetate	8.688	43	131400	32.521	ug/l #	87

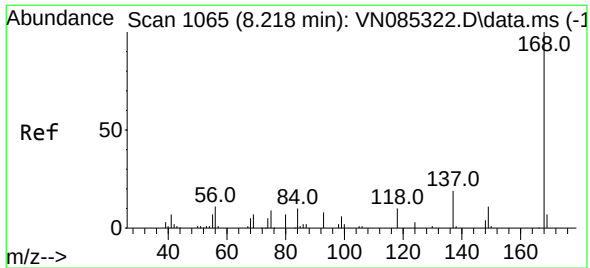
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085334.D
Acq On : 27 Dec 2024 18:42
Operator : JC\MD
Sample : P5380-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1

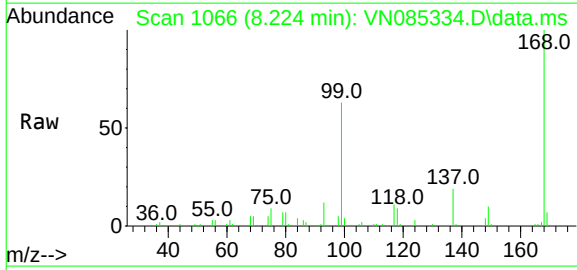
Quant Time: Dec 28 01:45:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration



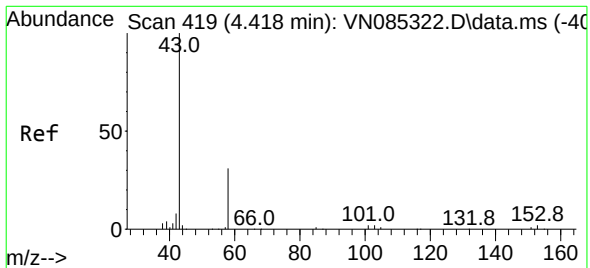
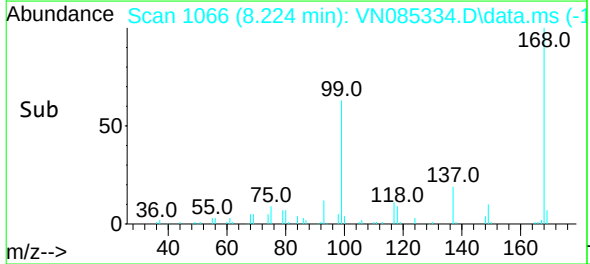
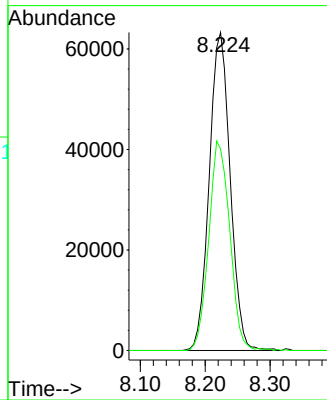


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085334.D
Acq: 27 Dec 2024 18:42

Instrument :
MSVOA_N
ClientSampleId :
TAPIAL3-IDW-SOIL-122024-T1

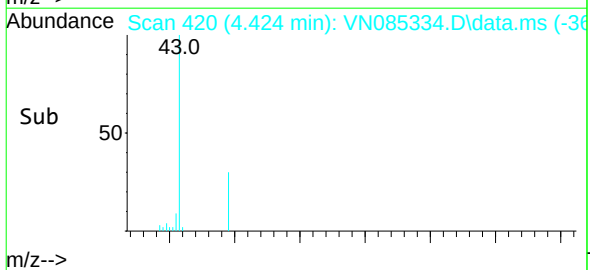
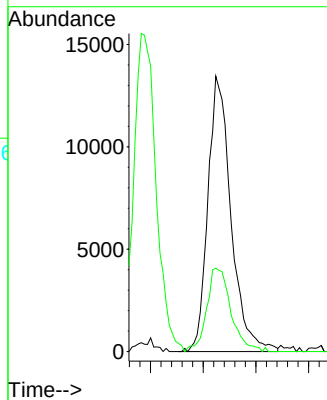
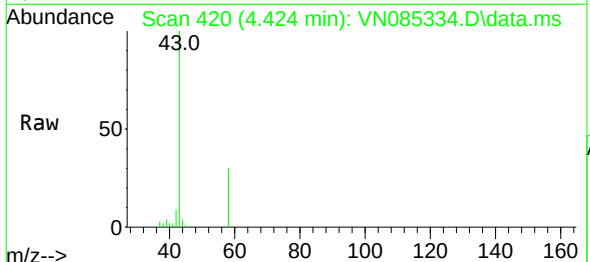


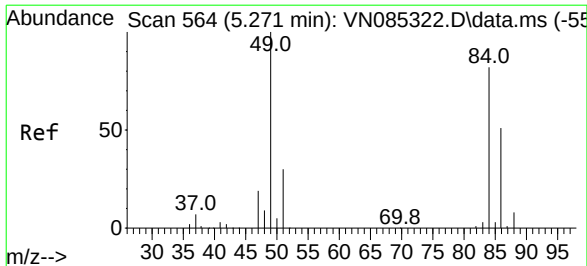
Tgt Ion:168 Resp: 141875
Ion Ratio Lower Upper
168 100
99 63.4 51.0 76.4



#16
Acetone
Concen: 61.580 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN085334.D
Acq: 27 Dec 2024 18:42

Tgt Ion: 43 Resp: 40975
Ion Ratio Lower Upper
43 100
58 30.3 24.5 36.7





#20

Methylene Chloride

Concen: 2.362 ug/l

RT: 5.277 min Scan# 56

Delta R.T. 0.006 min

Lab File: VN085334.D

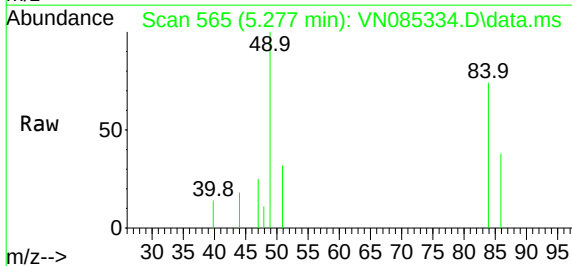
Acq: 27 Dec 2024 18:42

Instrument :

MSVOA_N

ClientSampleId :

TAPIAL3-IDW-SOIL-122024-T1



Tgt Ion: 84 Resp: 4228

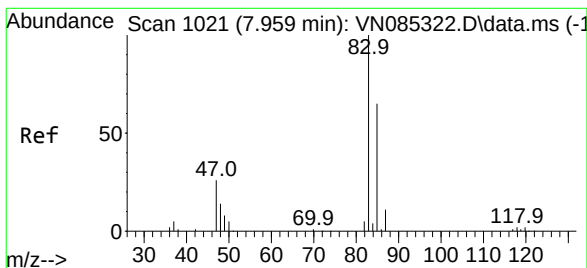
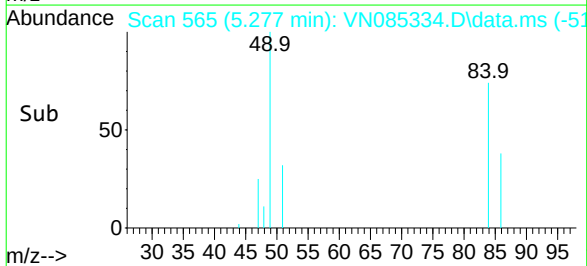
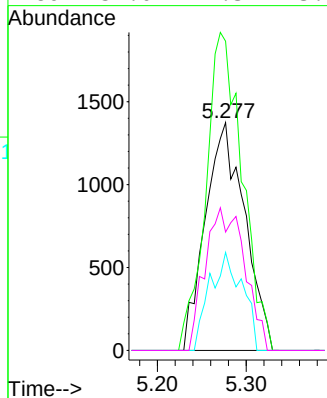
Ion Ratio Lower Upper

84 100

49 135.7 97.6 146.4

51 43.0 29.1 43.7

86 52.0 49.3 73.9



#30

Chloroform

Concen: 2.340 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085334.D

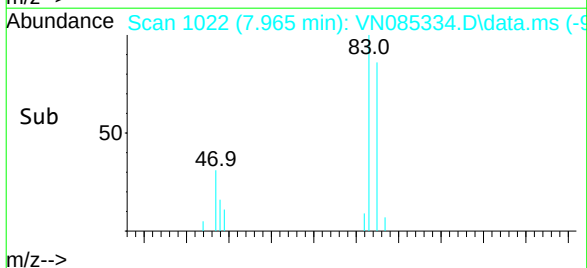
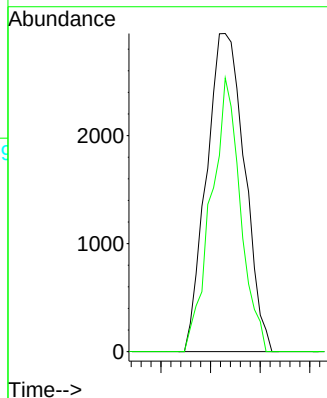
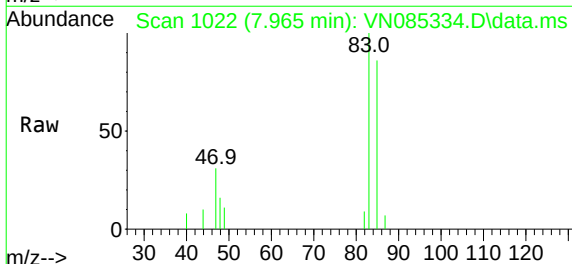
Acq: 27 Dec 2024 18:42

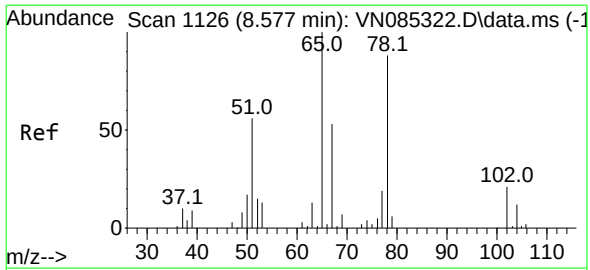
Tgt Ion: 83 Resp: 7841

Ion Ratio Lower Upper

83 100

85 86.0 52.0 78.0#





#33

1,2-Dichloroethane-d4

Concen: 56.151 ug/l

RT: 8.577 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN085334.D

Acq: 27 Dec 2024 18:42

Instrument :

MSVOA_N

ClientSampleId :

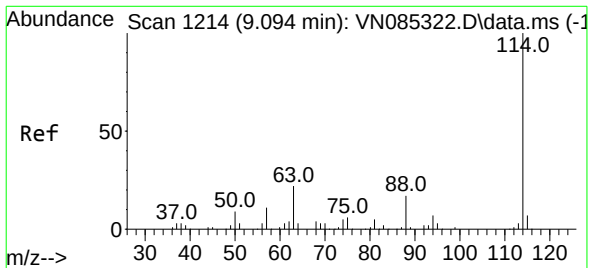
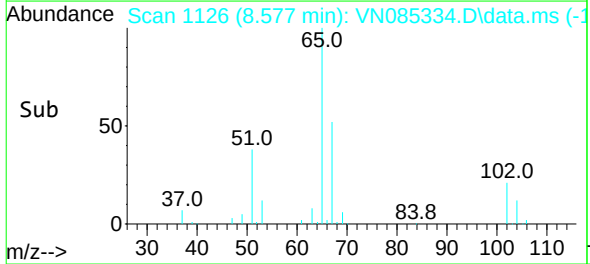
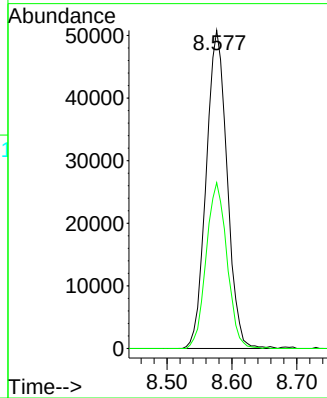
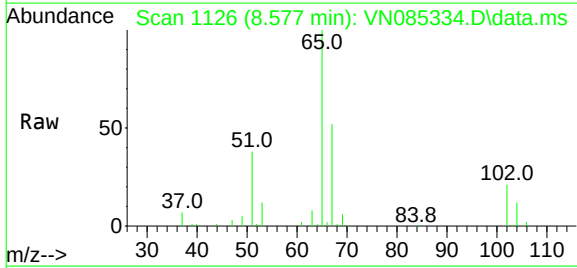
TAPIAL3-IDW-SOIL-122024-T1

Tgt Ion: 65 Resp: 113623

Ion Ratio Lower Upper

65 100

67 51.9 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085334.D

Acq: 27 Dec 2024 18:42

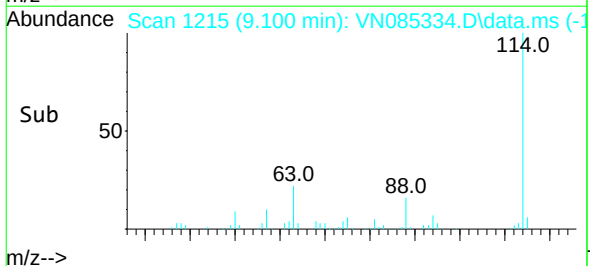
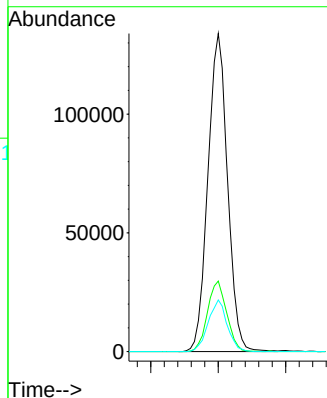
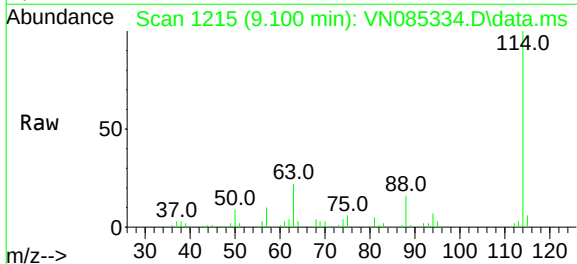
Tgt Ion: 114 Resp: 270279

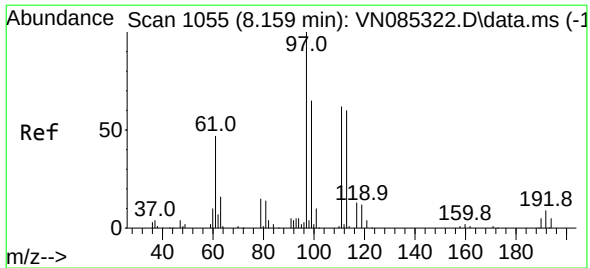
Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.4

88 16.2 0.0 33.6





#35

Dibromofluoromethane

Concen: 52.641 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085334.D

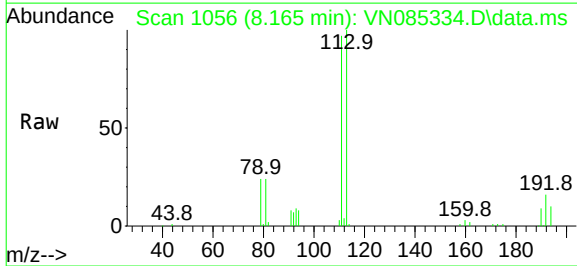
Acq: 27 Dec 2024 18:42

Instrument :

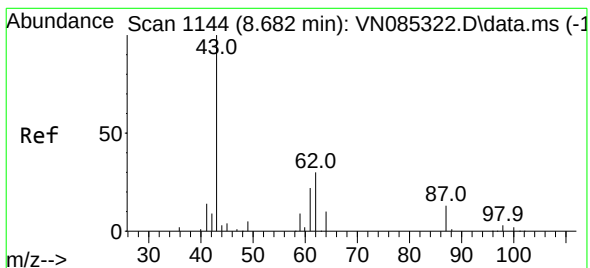
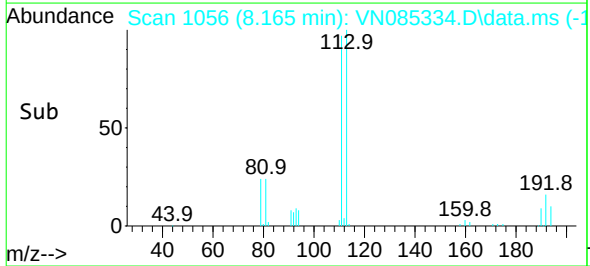
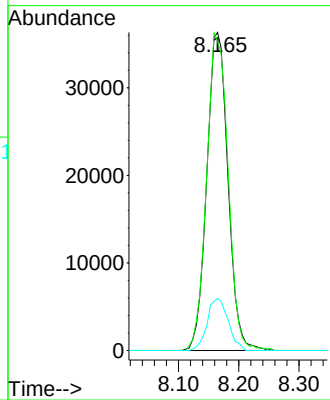
MSVOA_N

ClientSampleId :

TAPIAL3-IDW-SOIL-122024-T1



Tgt Ion:	113	Resp:	88760
Ion	Ratio	Lower	Upper
113	100		
111	101.2	80.5	120.7
192	16.2	12.9	19.3



#43

Isopropyl Acetate

Concen: 32.521 ug/l

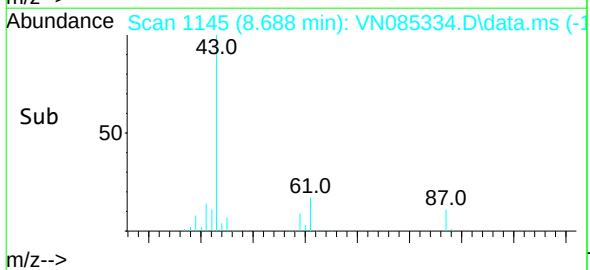
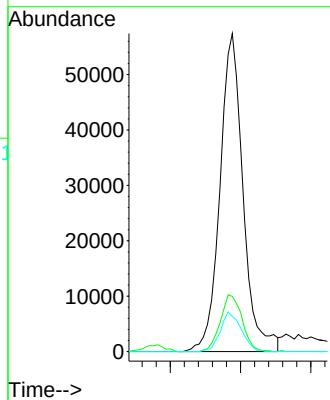
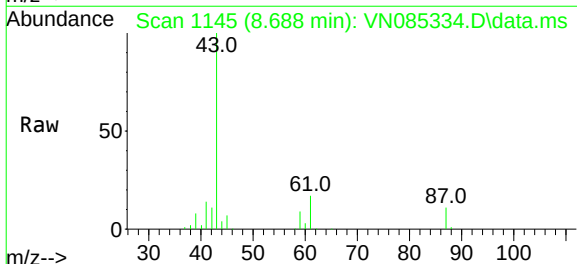
RT: 8.688 min Scan# 1145

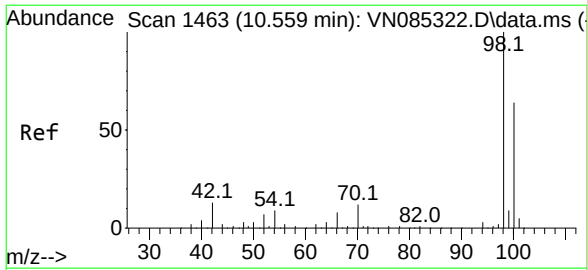
Delta R.T. 0.006 min

Lab File: VN085334.D

Acq: 27 Dec 2024 18:42

Tgt Ion:	43	Resp:	131400
Ion	Ratio	Lower	Upper
43	100		
61	16.8	20.8	31.2#
87	11.2	10.2	15.4





#50

Toluene-d8

Concen: 54.761 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085334.D

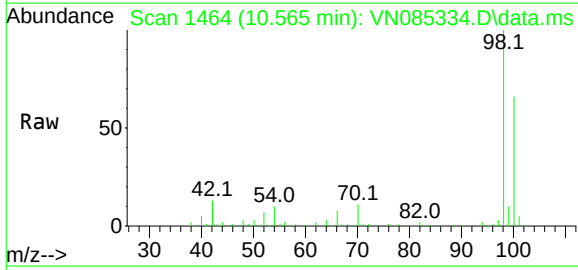
Acq: 27 Dec 2024 18:42

Instrument :

MSVOA_N

ClientSampleId :

TAPIAL3-IDW-SOIL-122024-T1

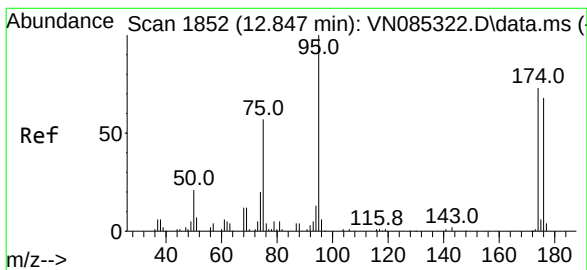
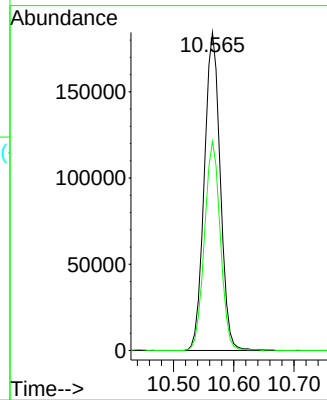
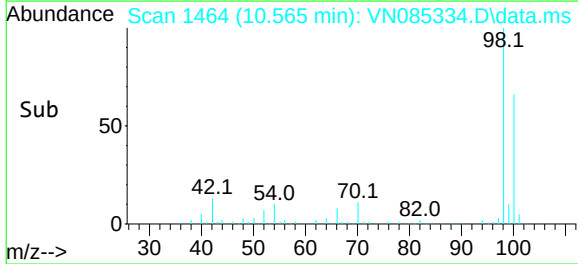


Tgt Ion: 98 Resp: 338827

Ion Ratio Lower Upper

98 100

100 65.4 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 52.974 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN085334.D

Acq: 27 Dec 2024 18:42

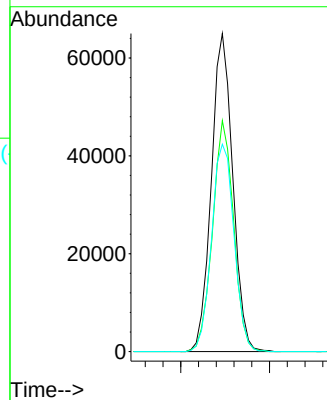
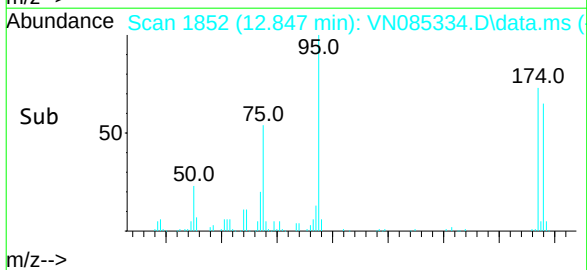
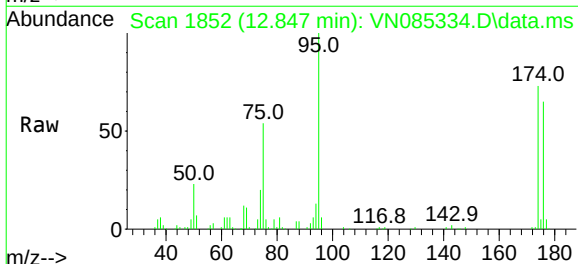
Tgt Ion: 95 Resp: 108857

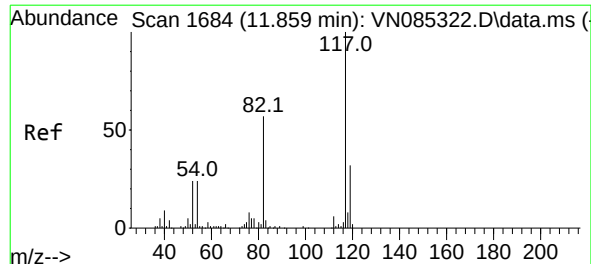
Ion Ratio Lower Upper

95 100

174 71.2 0.0 143.2

176 68.5 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. 0.006 min

Lab File: VN085334.D

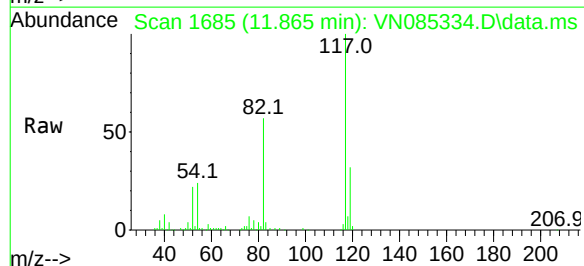
Acq: 27 Dec 2024 18:42

Instrument :

MSVOA_N

ClientSampleId :

TAPIAL3-IDW-SOIL-122024-T1



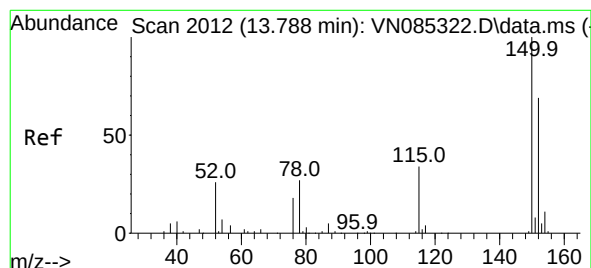
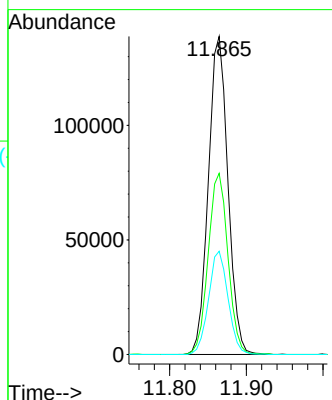
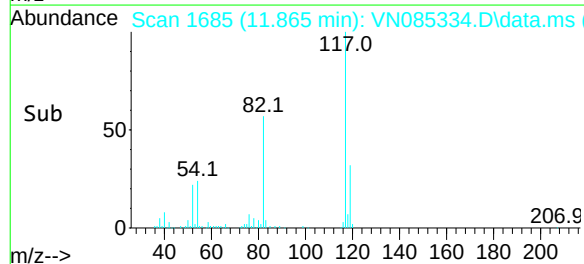
Tgt Ion:117 Resp: 246031

Ion Ratio Lower Upper

117 100

82 57.0 45.7 68.5

119 32.5 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085334.D

Acq: 27 Dec 2024 18:42

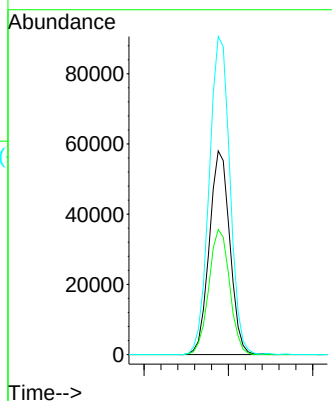
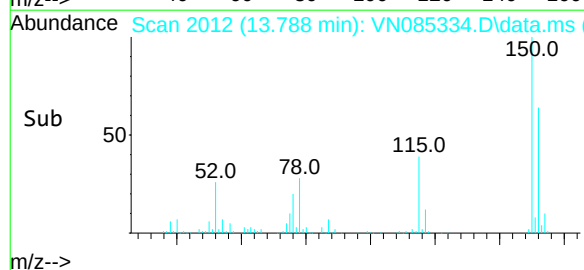
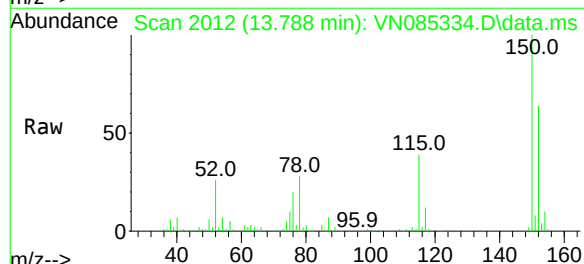
Tgt Ion:152 Resp: 98028

Ion Ratio Lower Upper

152 100

115 62.3 30.4 91.3

150 158.1 0.0 345.0





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: WEST04
 Lab Code: CHEM Case No.: P5380 SAS No.: P5380 SDG No.: P5380
 Instrument ID: MSVOA_N Calibration Date(s): 12/27/2024 12/27/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:26 12:48
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085321.D		RRF050 = VN085322.D		RRF020 = VN085323.D			
		RRF010 = VN085324.D		RRF005 = VN085325.D		RRF001 = VN085326.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Vinyl Chloride	0.766	0.758	0.827	0.781	0.831	0.859	0.804	5.1	
1,1-Dichloroethene	0.549	0.538	0.584	0.539	0.598	0.526	0.556	5.1	
2-Butanone	0.357	0.367	0.390	0.362	0.368	0.339	0.364	4.5	
Carbon Tetrachloride	0.516	0.502	0.534	0.491	0.492	0.452	0.498	5.5	
Chloroform	1.155	1.133	1.244	1.161	1.160	1.233	1.181	3.9	
Benzene	1.412	1.377	1.481	1.356	1.387	1.273	1.381	4.9	
1,2-Dichloroethane	0.489	0.473	0.546	0.494	0.493	0.475	0.495	5.3	
Trichloroethene	0.328	0.311	0.345	0.310	0.324	0.344	0.327	4.7	
Tetrachloroethene	0.321	0.312	0.344	0.331	0.323	0.270	0.317	8.1	
Chlorobenzene	1.080	1.049	1.131	1.031	1.067	1.124	1.080	3.7	
1,2-Dichloroethane-d4	0.715	0.717	0.684	0.692	0.757		0.713	4	
Dibromofluoromethane	0.315	0.317	0.293	0.304	0.330		0.312	4.5	
Toluene-d8	1.189	1.161	1.070	1.075	1.229		1.145	6.1	
4-Bromofluorobenzene	0.407	0.401	0.362	0.347	0.383		0.380	6.6	

* 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.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N122724W.M
 Title : SW846 8260
 Last Update : Sat Dec 28 01:36:16 2024
 Response Via : Initial Calibration

Calibration Files

1 =VN085326.D 5 =VN085325.D 10 =VN085324.D 20 =VN085323.D 50 =VN085322.D 100 =VN085321.

D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.649	0.674	0.699	0.658	0.699	0.677	0.676	3.04
3) P	Chloromethane	0.980	0.744	0.739	0.737	0.686	0.674	0.760	14.72
4) C	Vinyl Chloride	0.859	0.831	0.781	0.827	0.758	0.766	0.804	5.12#
5) T	Bromomethane		0.590	0.540	0.535	0.481	0.481	0.526	8.73
6) T	Chloroethane	0.522	0.534	0.516	0.515	0.482	0.490	0.510	3.87
7) T	Trichlorofluor...	1.055	1.078	1.074	1.089	1.022	1.023	1.057	2.72
8) T	Diethyl Ether	0.283	0.363	0.361	0.373	0.357	0.362	0.350	9.45
9) T	1,1,2-Trichlor...	0.592	0.634	0.614	0.605	0.578	0.584	0.601	3.44
10) T	Methyl Iodide		0.666	0.666	0.722	0.716	0.709	0.696	3.92
11) T	Tert butyl alc...		0.096	0.092	0.093	0.086	0.080	0.089	7.11
12) CM	1,1-Dichloroet...	0.526	0.598	0.539	0.584	0.538	0.549	0.556	5.11#
13) T	Acrolein		0.153	0.142	0.140	0.130	0.131	0.139	6.69
14) T	Allyl chloride	0.915	0.890	0.900	0.909	0.855	0.867	0.889	2.65
15) T	Acrylonitrile	0.277	0.278	0.286	0.298	0.275	0.273	0.281	3.29
16) T	Acetone	0.250	0.234	0.233	0.250	0.223	0.218	0.235	5.60
17) T	Carbon Disulfide	2.016	1.702	1.607	1.730	1.536	1.551	1.690	10.52
18) T	Methyl Acetate	0.729	0.719	0.728	0.746	0.696	0.689	0.718	3.03
19) T	Methyl tert-bu...	1.581	1.786	1.790	1.934	1.869	1.876	1.806	6.86
20) T	Methylene Chlo...	0.645	0.643	0.624	0.653	0.613	0.606	0.631	3.02
21) T	trans-1,2-Dich...	0.573	0.590	0.569	0.618	0.565	0.567	0.580	3.52
22) T	Diisopropyl ether	1.602	1.980	1.910	2.062	1.946	1.997	1.916	8.47
23) T	Vinyl Acetate	1.125	1.346	1.357	1.576	1.428	1.485	1.386	11.09
24) P	1,1-Dichloroet...	1.143	1.170	1.141	1.209	1.119	1.145	1.154	2.72
25) T	2-Butanone	0.339	0.368	0.362	0.390	0.367	0.357	0.364	4.51
26) T	2,2-Dichloropr...	0.878	1.057	0.995	1.089	1.029	1.021	1.011	7.21
27) T	cis-1,2-Dichlo...	0.649	0.662	0.654	0.731	0.691	0.701	0.681	4.72
28) T	Bromochloromet...	0.457	0.594	0.535	0.540	0.532	0.560	0.536	8.40
29) T	Tetrahydrofuran	0.204	0.230	0.238	0.255	0.239	0.240	0.234	7.19
30) C	Chloroform	1.233	1.160	1.161	1.244	1.133	1.155	1.181	3.86#
31) T	Cyclohexane		1.196	1.055	1.056	0.979	0.984	1.054	8.30
32) T	1,1,1-Trichlor...	1.055	1.062	1.047	1.099	1.022	1.043	1.055	2.44
33) S	1,2-Dichloroet...		0.757	0.692	0.684	0.717	0.715	0.713	3.99
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.330	0.304	0.293	0.317	0.315	0.312	4.48
36) T	1,1-Dichloropr...	0.424	0.457	0.442	0.476	0.461	0.480	0.457	4.59
37) T	Ethyl Acetate	0.486	0.443	0.467	0.475	0.416	0.436	0.454	5.87
38) T	Carbon Tetrach...	0.452	0.492	0.491	0.534	0.502	0.516	0.498	5.52
39) T	Methylcyclohexane	0.387	0.450	0.450	0.513	0.504	0.540	0.474	11.72
40) TM	Benzene	1.273	1.387	1.356	1.481	1.377	1.412	1.381	4.95
41) T	Methacrylonitrile	0.183	0.237	0.242	0.245	0.236	0.251	0.232	10.70
42) TM	1,2-Dichloroet...	0.475	0.493	0.494	0.546	0.473	0.489	0.495	5.33
43) T	Isopropyl Acetate	0.732	0.720	0.721	0.789	0.745	0.778	0.747	3.94
44) TM	Trichloroethene	0.344	0.324	0.310	0.345	0.311	0.328	0.327	4.66
45) C	1,2-Dichloropr...	0.336	0.348	0.351	0.377	0.339	0.353	0.351	4.09#
46) T	Dibromomethane	0.221	0.250	0.248	0.256	0.240	0.247	0.244	4.98
47) T	Bromodichlorom...	0.459	0.511	0.510	0.529	0.505	0.526	0.507	4.99
48) T	Methyl methacr...	0.267	0.316	0.313	0.353	0.343	0.354	0.324	10.19
49) T	1,4-Dioxane	0.003	0.005	0.005	0.006	0.005	0.005	0.005	19.47
50) S	Toluene-d8		1.229	1.075	1.070	1.161	1.189	1.145	6.12
51) T	4-Methyl-2-Pen...	0.338	0.417	0.427	0.462	0.434	0.442	0.420	10.25
52) CM	Toluene	0.674	0.829	0.810	0.892	0.846	0.881	0.822	9.57#
53) T	t-1,3-Dichloro...	0.398	0.498	0.483	0.526	0.529	0.555	0.498	11.10
54) T	cis-1,3-Dichlo...	0.457	0.528	0.526	0.585	0.555	0.582	0.539	8.82
55) T	1,1,2-Trichlor...	0.297	0.328	0.298	0.320	0.306	0.314	0.310	4.02

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\

Method File : 82N122724W.M

56)	T	Ethyl methacry...	0.324	0.391	0.455	0.508	0.503	0.532	0.452	17.74
57)	T	1,3-Dichloropr...	0.467	0.553	0.537	0.590	0.555	0.567	0.545	7.67
58)	T	2-Chloroethyl ...	0.145	0.218	0.232	0.226	0.242	0.249	0.219	17.21
59)	T	2-Hexanone	0.226	0.281	0.294	0.327	0.308	0.313	0.291	12.24
60)	T	Dibromochlorom...	0.269	0.349	0.346	0.378	0.371	0.385	0.350	12.13
61)	T	1,2-Dibromoethane	0.263	0.305	0.309	0.335	0.313	0.318	0.307	7.82
62)	S	4-Bromofluorob...	0.383	0.347	0.362	0.401	0.407	0.380		6.65
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.270	0.323	0.331	0.344	0.312	0.321	0.317	8.07
65)	PM	Chlorobenzene	1.124	1.067	1.031	1.131	1.049	1.080	1.080	3.72
66)	T	1,1,1,2-Tetrac...	0.349	0.348	0.351	0.391	0.363	0.374	0.363	4.71
67)	C	Ethyl Benzene	1.546	1.729	1.715	1.944	1.877	1.970	1.797	9.06#
68)	T	m/p-Xylenes	0.473	0.644	0.634	0.740	0.709	0.746	0.658	15.51
69)	T	o-Xylene	0.504	0.602	0.611	0.703	0.689	0.708	0.636	12.49
70)	T	Styrene	0.730	0.964	0.964	1.172	1.147	1.209	1.031	17.58
71)	P	Bromoform	0.207	0.243	0.247	0.275	0.263	0.273	0.251	10.05
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	2.674	3.684	3.596	3.983	3.731	3.905	3.596	13.17
74)	T	N-amyl acetate	1.279	1.432	1.485	1.733	1.621	1.685	1.539	11.17
75)	P	1,1,2,2-Tetrac...	1.201	1.176	1.149	1.196	1.064	1.085	1.145	5.09
76)	T	1,2,3-Trichlor...	1.109	0.938	0.957	0.944	0.829	0.825	0.934	11.12
77)	T	Bromobenzene	0.946	0.886	0.890	0.919	0.838	0.865	0.891	4.28
78)	T	n-propylbenzene	3.243	3.958	4.259	4.661	4.393	4.634	4.191	12.70
79)	T	2-Chlorotoluene	2.156	2.724	2.688	2.903	2.636	2.719	2.638	9.57
80)	T	1,3,5-Trimethy...	2.072	2.880	2.958	3.284	3.066	3.190	2.908	14.97
81)	T	trans-1,4-Dich...	0.341	0.375	0.416	0.403	0.414	0.390		8.16
82)	T	4-Chlorotoluene	2.310	2.665	2.661	2.919	2.642	2.743	2.657	7.47
83)	T	tert-Butylbenzene	1.985	2.504	2.508	2.774	2.597	2.748	2.519	11.35
84)	T	1,2,4-Trimethy...	2.047	2.720	2.895	3.346	3.120	3.248	2.896	16.41
85)	T	sec-Butylbenzene	2.492	3.443	3.538	3.851	3.740	3.917	3.497	14.99
86)	T	p-Isopropyltol...	1.790	2.616	2.851	3.231	3.081	3.324	2.816	20.05
87)	T	1,3-Dichlorobe...	1.523	1.655	1.555	1.732	1.580	1.645	1.615	4.74
88)	T	1,4-Dichlorobe...	1.732	1.666	1.602	1.753	1.568	1.633	1.659	4.39
89)	T	n-Butylbenzene	2.134	2.364	2.417	2.818	2.723	2.908	2.561	11.76
90)	T	Hexachloroethane	0.509	0.560	0.551	0.606	0.596	0.618	0.573	7.12
91)	T	1,2-Dichlorobe...	1.382	1.543	1.592	1.672	1.513	1.529	1.538	6.22
92)	T	1,2-Dibromo-3-...	0.189	0.212	0.200	0.224	0.202	0.195	0.204	6.07
93)	T	1,2,4-Trichlor...	0.731	0.752	0.732	0.825	0.761	0.805	0.768	5.07
94)	T	Hexachlorobuta...	0.417	0.412	0.375	0.400	0.340	0.345	0.381	8.89
95)	T	Naphthalene	2.951	2.381	2.441	2.756	2.528	2.564	2.603	8.20
96)	T	1,2,3-Trichlor...	0.728	0.787	0.768	0.811	0.746	0.763	0.767	3.82

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085321.D
 Acq On : 27 Dec 2024 10:26
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:10:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	156166	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	274313	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	239296	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	110806	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	223438	100.315	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 200.620%#	
35) Dibromofluoromethane	8.159	113	173043	101.117	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 202.240%#	
50) Toluene-d8	10.565	98	652176	103.853	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 207.700%#	
62) 4-Bromofluorobenzene	12.847	95	223549	107.189	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 214.380%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	211530	100.154	ug/l	98
3) Chloromethane	2.359	50	210461	88.661	ug/l	95
4) Vinyl Chloride	2.512	62	239141	95.258	ug/l	97
5) Bromomethane	2.948	94	150300	91.543	ug/l	95
6) Chloroethane	3.118	64	153144	96.191	ug/l	98
7) Trichlorofluoromethane	3.500	101	319456	96.803	ug/l	98
8) Diethyl Ether	3.953	74	113060	103.470	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	182437	97.166	ug/l	98
10) Methyl Iodide	4.589	142	221288	101.834	ug/l	96
11) Tert butyl alcohol	5.512	59	125490	449.925	ug/l	98
12) 1,1-Dichloroethene	4.342	96	171462	98.802	ug/l	99
13) Acrolein	4.171	56	204340	469.915	ug/l	97
14) Allyl chloride	5.018	41	270904	97.537	ug/l	99
15) Acrylonitrile	5.712	53	425762	485.009	ug/l	99
16) Acetone	4.418	43	340922	465.473	ug/l	98
17) Carbon Disulfide	4.712	76	484441	91.760	ug/l	100
18) Methyl Acetate	5.018	43	215207	95.974	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	586031	103.894	ug/l	99
20) Methylene Chloride	5.271	84	189358	96.119	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	177119	97.703	ug/l	99
22) Diisopropyl ether	6.665	45	623798	104.224	ug/l	99
23) Vinyl Acetate	6.594	43	2319612	539.108	ug/l	98
24) 1,1-Dichloroethane	6.559	63	357527	99.165	ug/l	99
25) 2-Butanone	7.471	43	557035	490.229	ug/l	99
26) 2,2-Dichloropropane	7.488	77	318743	100.909	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	218963	102.909	ug/l	97
28) Bromochloromethane	7.806	49	174969	104.430	ug/l #	98
29) Tetrahydrofuran	7.830	42	374323	511.419	ug/l	99
30) Chloroform	7.959	83	360866	97.837	ug/l	98
31) Cyclohexane	8.253	56	307196	93.310	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	325760	98.891	ug/l	97
36) 1,1-Dichloropropene	8.365	75	263076	104.994	ug/l	99
37) Ethyl Acetate	7.553	43	239186	96.040	ug/l	99
38) Carbon Tetrachloride	8.359	117	282846	103.563	ug/l	97
39) Methylcyclohexane	9.594	83	296114	113.903	ug/l	98
40) Benzene	8.600	78	774590	102.248	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085321.D
 Acq On : 27 Dec 2024 10:26
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Dec 28 01:10:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	137768	108.014	ug/l	99
42) 1,2-Dichloroethane	8.665	62	268298	98.781	ug/l	99
43) Isopropyl Acetate	8.682	43	426602	104.030	ug/l	100
44) Trichloroethene	9.347	130	179832	100.266	ug/l	97
45) 1,2-Dichloropropane	9.618	63	193438	100.585	ug/l	99
46) Dibromomethane	9.700	93	135558	101.355	ug/l	99
47) Bromodichloromethane	9.882	83	288439	103.761	ug/l	98
48) Methyl methacrylate	9.677	41	194022	109.038	ug/l	98
49) 1,4-Dioxane	9.688	88	56273	2096.049	ug/l #	85
51) 4-Methyl-2-Pentanone	10.441	43	1211949	525.905	ug/l	99
52) Toluene	10.624	92	483534	107.195	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	304711	111.463	ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	319172	107.971	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	172065	101.034	ug/l	96
56) Ethyl methacrylate	10.871	69	292009	117.730	ug/l	99
57) 1,3-Dichloropropane	11.159	76	311119	104.087	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	682916	569.087	ug/l	99
59) 2-Hexanone	11.188	43	858322	536.829	ug/l	99
60) Dibromochloromethane	11.353	129	211482	110.251	ug/l	98
61) 1,2-Dibromoethane	11.465	107	174500	103.568	ug/l	99
64) Tetrachloroethene	11.100	164	153652	101.335	ug/l	97
65) Chlorobenzene	11.888	112	516861	99.951	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	179160	103.229	ug/l	99
67) Ethyl Benzene	11.959	91	942995	109.652	ug/l	100
68) m/p-Xylenes	12.065	106	713871	226.828	ug/l	100
69) o-Xylene	12.394	106	338950	111.332	ug/l	98
70) Styrene	12.406	104	578718	117.286	ug/l	99
71) Bromoform	12.570	173	130453	108.523	ug/l #	100
73) Isopropylbenzene	12.688	105	865504	108.621	ug/l	100
74) N-amyl acetate	12.488	43	373392	109.477	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	240405	94.731	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	182933m	85.937	ug/l	
77) Bromobenzene	12.976	156	191802	97.157	ug/l	99
78) n-propylbenzene	13.029	91	1026870	110.557	ug/l	100
79) 2-Chlorotoluene	13.123	91	602668	103.099	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	706917	109.682	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	91679	106.602	ug/l	98
82) 4-Chlorotoluene	13.217	91	607903	103.257	ug/l	100
83) tert-Butylbenzene	13.435	119	608882	109.059	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	719806	112.160	ug/l	98
85) sec-Butylbenzene	13.612	105	867992	112.004	ug/l	100
86) p-Isopropyltoluene	13.723	119	736735	100.116	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	364480	101.845	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	361871	98.438	ug/l	100
89) n-Butylbenzene	14.053	91	644347	113.544	ug/l	99
90) Hexachloroethane	14.329	117	136982	107.835	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	338794	99.377	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	43244	95.745	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	178476	104.895	ug/l	100
94) Hexachlorobutadiene	15.494	225	76348	90.312	ug/l	99
95) Naphthalene	15.635	128	568171	98.477	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	168986	99.403	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085321.D
Acq On : 27 Dec 2024 10:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:10:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration

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

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

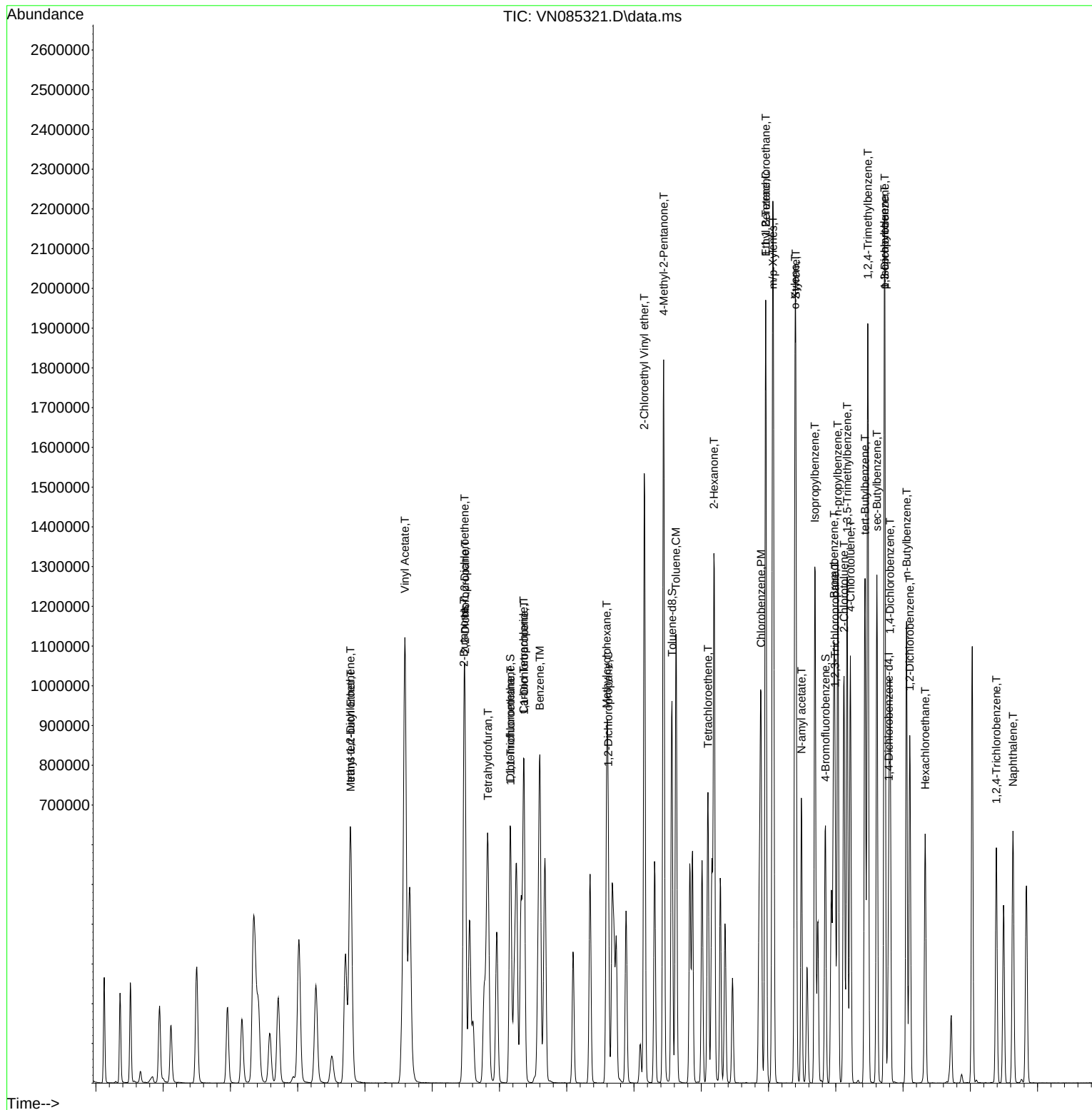
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Data File : VN085321.D
Acq On : 27 Dec 2024 10:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

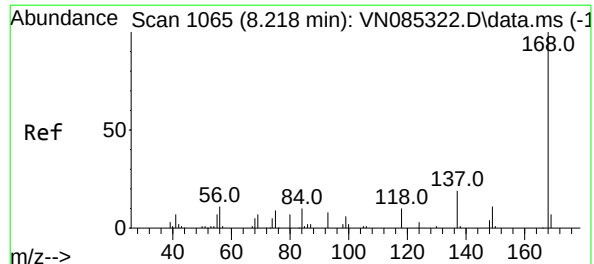
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

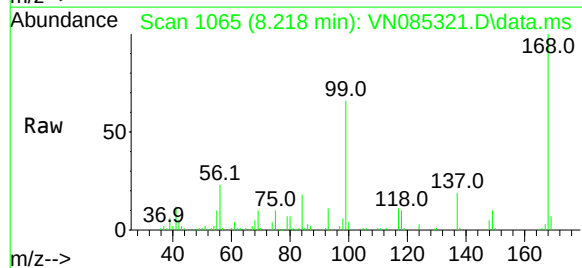
Quant Time: Dec 28 01:10:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

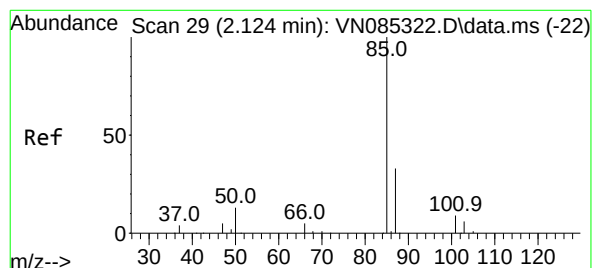
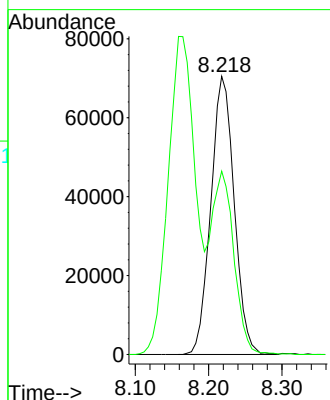
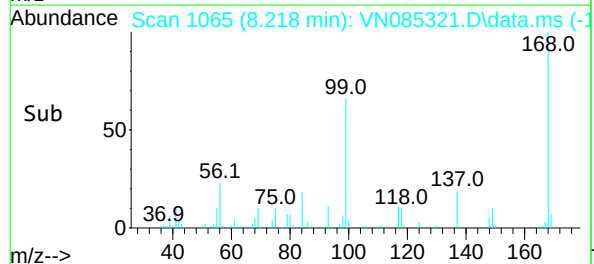
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion:168 Resp: 156166
Ion Ratio Lower Upper
168 100
99 65.7 51.0 76.4

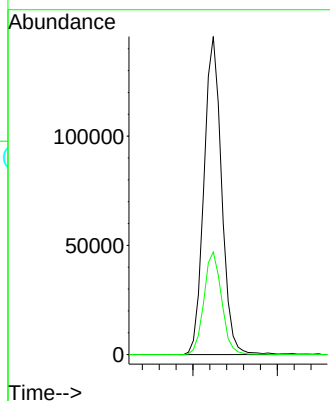
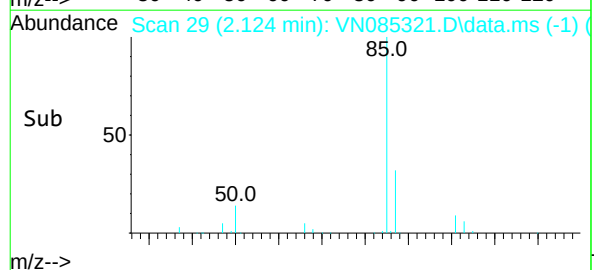
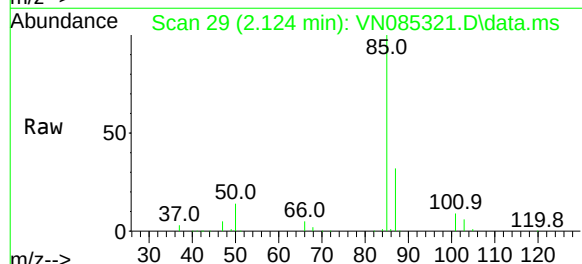
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

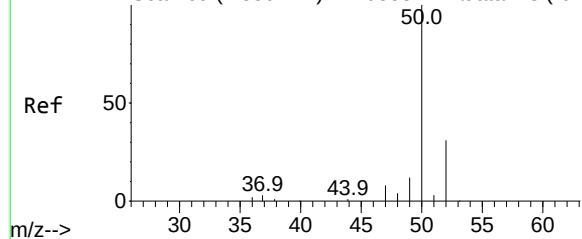


#2
Dichlorodifluoromethane
Concen: 100.154 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

Tgt Ion: 85 Resp: 211530
Ion Ratio Lower Upper
85 100
87 32.3 16.8 50.3



Abundance Scan 69 (2.359 min): VN085322.D\data.ms (-62)



#3

Chloromethane

Concen: 88.661 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

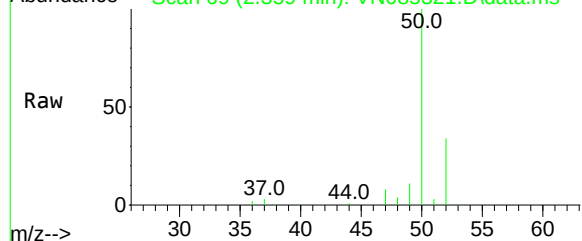
Instrument :

MSVOA_N

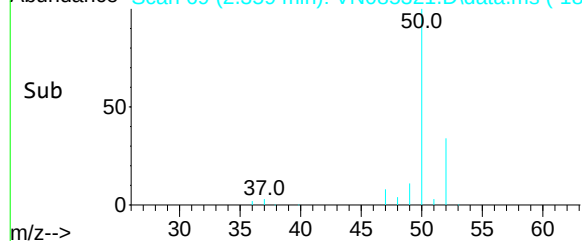
ClientSampleId :

VSTDICC100

Abundance Scan 69 (2.359 min): VN085321.D\data.ms



Abundance Scan 69 (2.359 min): VN085321.D\data.ms (-18)



Tgt Ion: 50 Resp: 210461

Ion Ratio Lower Upper

50 100

52 34.1 25.1 37.7

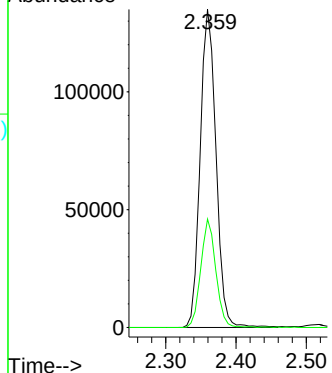
Manual Integrations

APPROVED

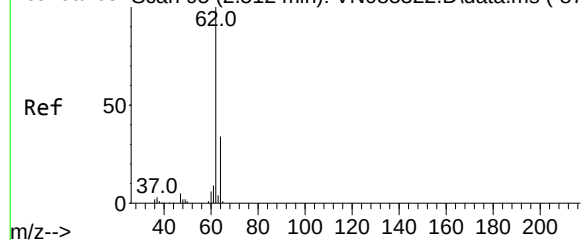
Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024

Abundance



Abundance Scan 95 (2.512 min): VN085322.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 95.258 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

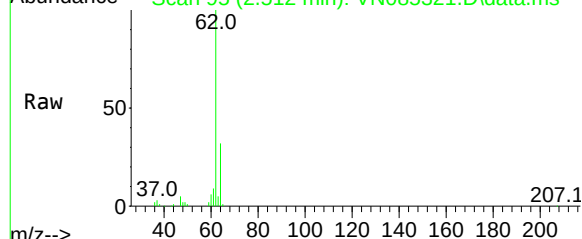
Tgt Ion: 62 Resp: 239141

Ion Ratio Lower Upper

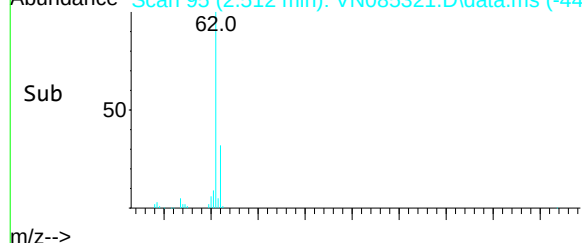
62 100

64 32.0 27.0 40.6

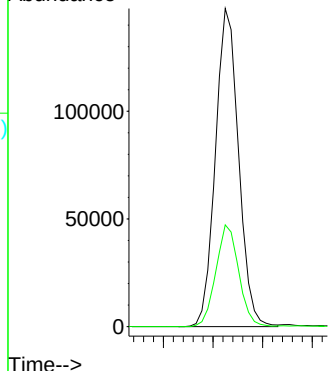
Abundance Scan 95 (2.512 min): VN085321.D\data.ms

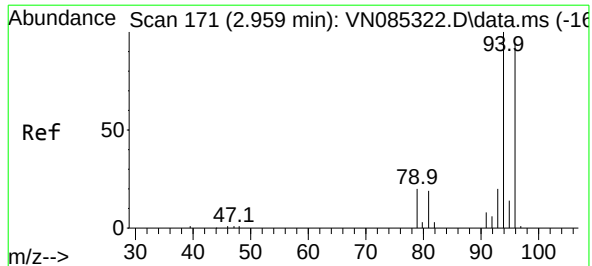


Abundance Scan 95 (2.512 min): VN085321.D\data.ms (-44)



Abundance





#5

Bromomethane

Concen: 91.543 ug/l

RT: 2.948 min Scan# 16

Delta R.T. -0.012 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 94 Resp: 150300

Ion Ratio Lower Upper

94 100

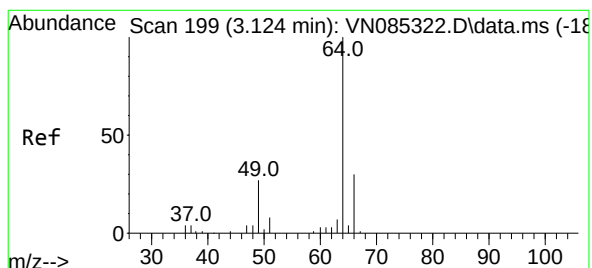
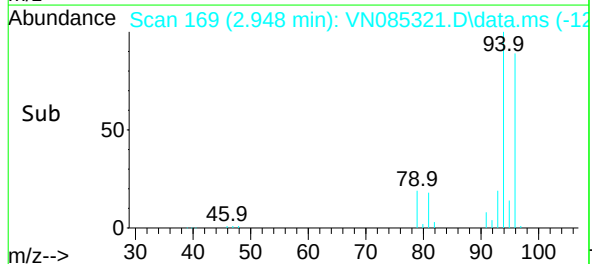
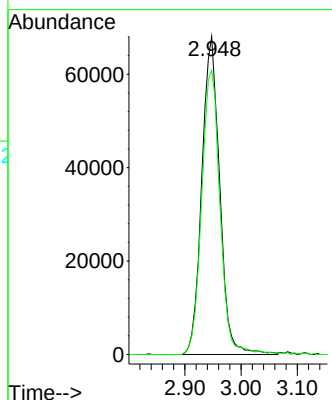
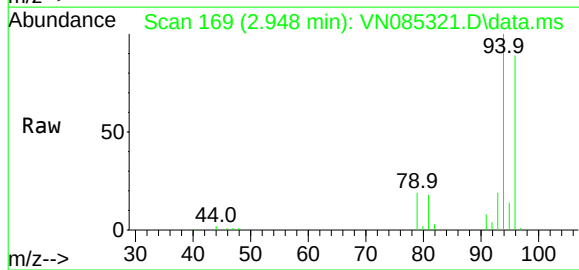
96 89.3 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#6

Chloroethane

Concen: 96.191 ug/l

RT: 3.118 min Scan# 198

Delta R.T. -0.006 min

Lab File: VN085321.D

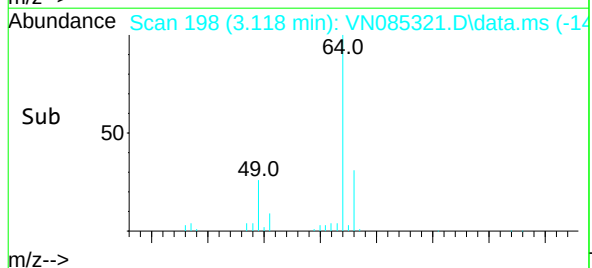
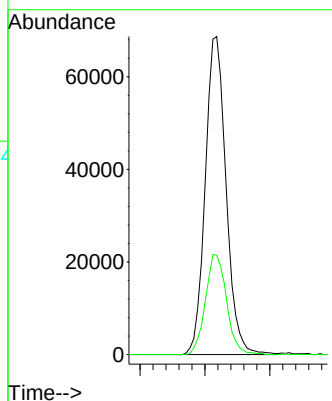
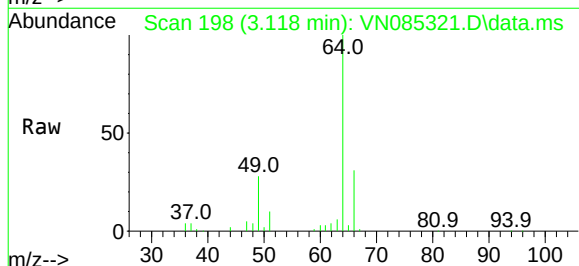
Acq: 27 Dec 2024 10:26

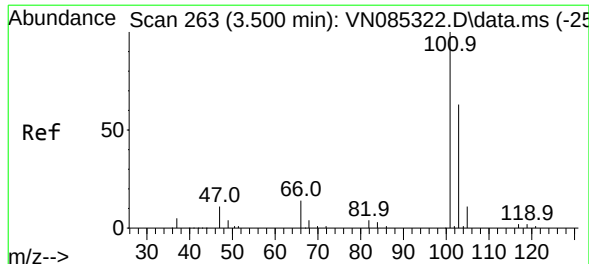
Tgt Ion: 64 Resp: 153144

Ion Ratio Lower Upper

64 100

66 31.2 24.1 36.1





#7

Trichlorofluoromethane

Concen: 96.803 ug/l

RT: 3.500 min Scan# 263

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:101 Resp: 319456

Ion Ratio Lower Upper

101 100

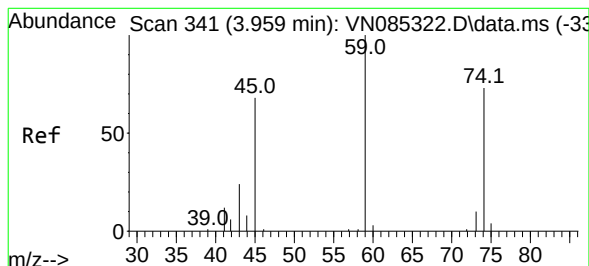
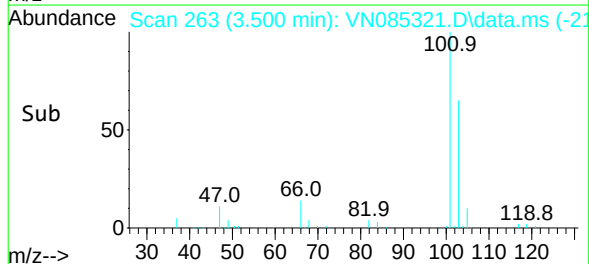
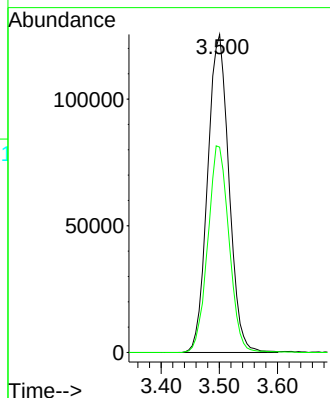
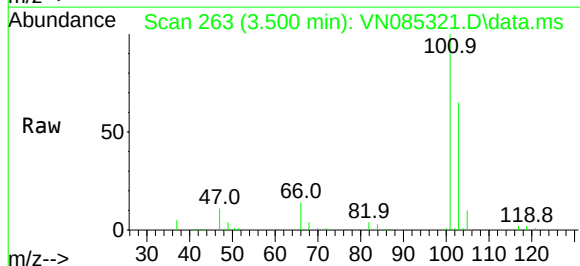
103 64.6 50.3 75.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#8

Diethyl Ether

Concen: 103.470 ug/l

RT: 3.953 min Scan# 340

Delta R.T. -0.006 min

Lab File: VN085321.D

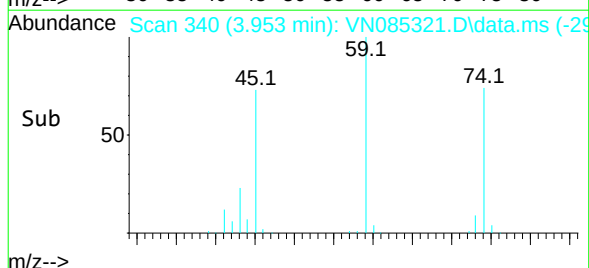
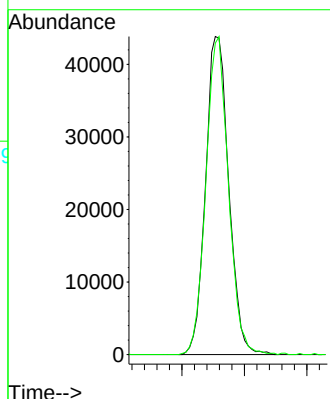
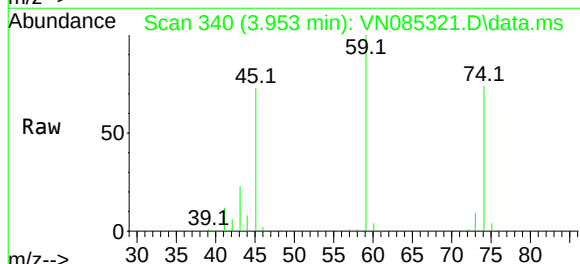
Acq: 27 Dec 2024 10:26

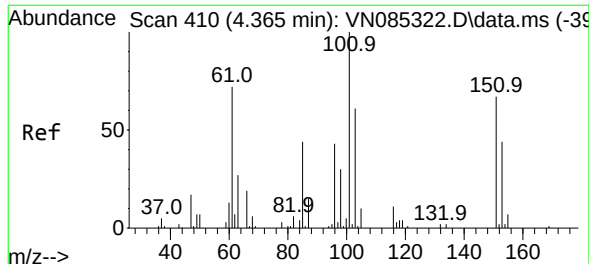
Tgt Ion: 74 Resp: 113060

Ion Ratio Lower Upper

74 100

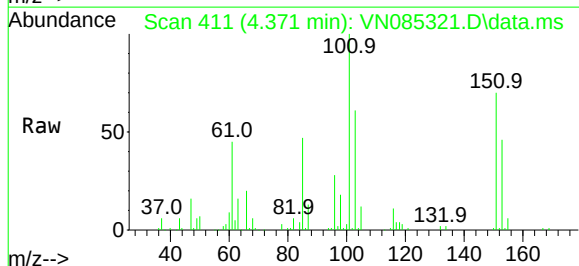
45 97.1 47.5 142.6





#9
1,1,2-Trichlorotrifluoroethane
Concen: 97.166 ug/l
RT: 4.371 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

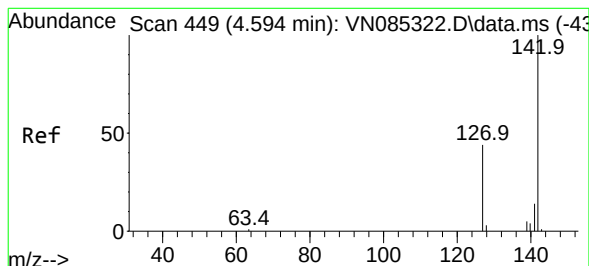
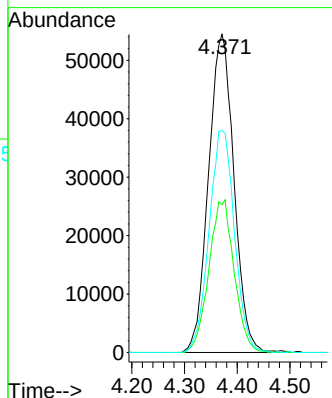
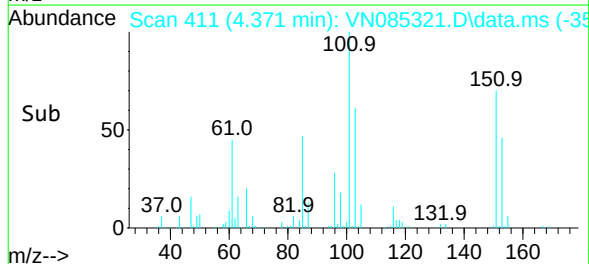
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



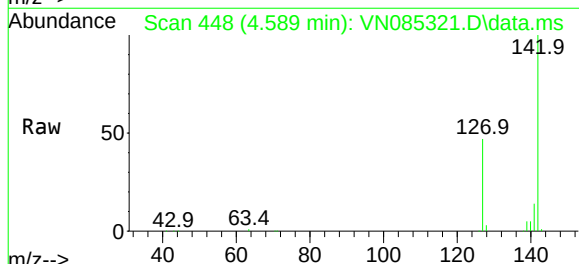
Tgt Ion:101 Resp: 182437
Ion Ratio Lower Upper
101 100
85 47.7 36.2 54.4
151 70.0 55.8 83.6

Manual Integrations
APPROVED

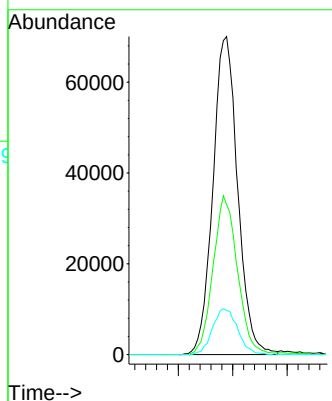
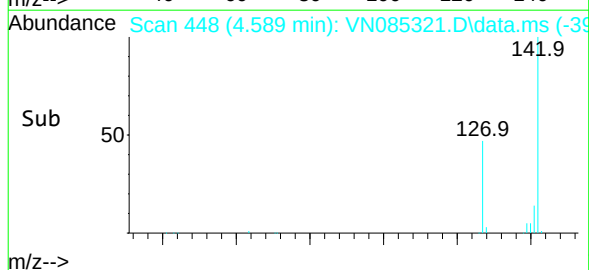
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

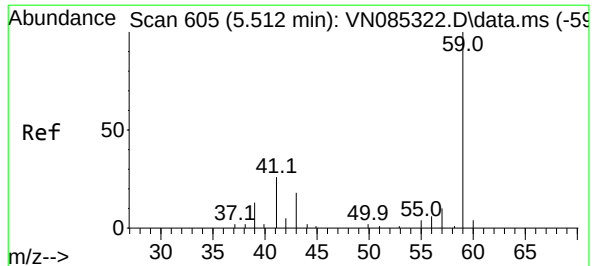


#10
Methyl Iodide
Concen: 101.834 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26



Tgt Ion:142 Resp: 221288
Ion Ratio Lower Upper
142 100
127 47.2 35.3 52.9
141 13.9 11.5 17.3





#11

Tert butyl alcohol

Concen: 449.925 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 125496

Ion Ratio Lower Upper

59 100

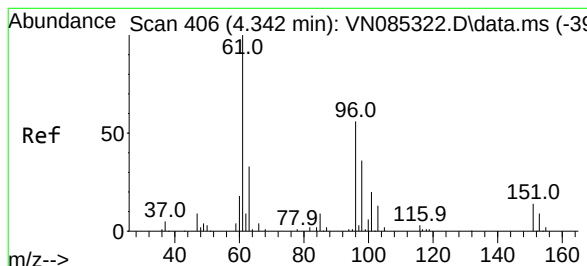
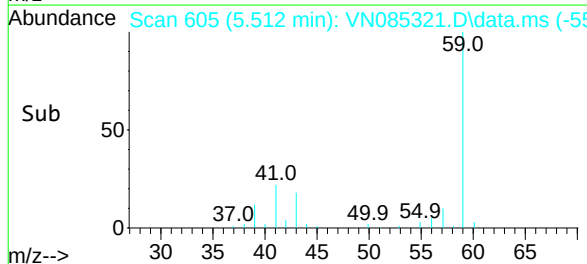
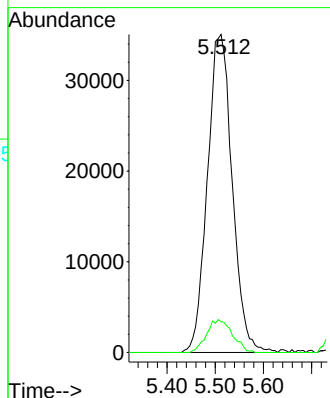
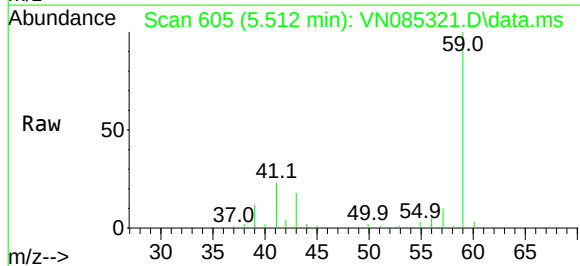
57 10.7 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#12

1,1-Dichloroethene

Concen: 98.802 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

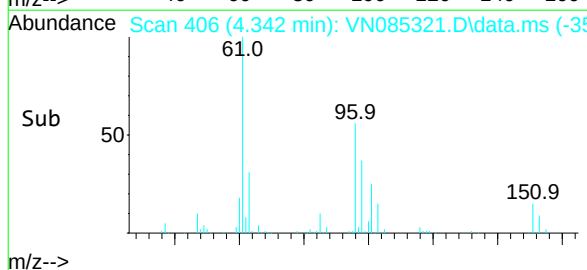
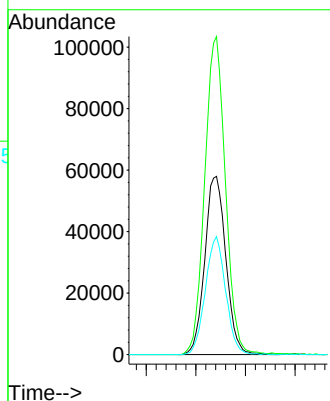
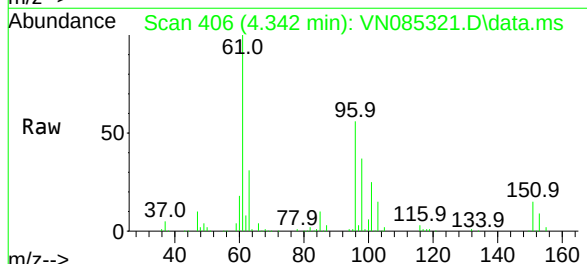
Tgt Ion: 96 Resp: 171462

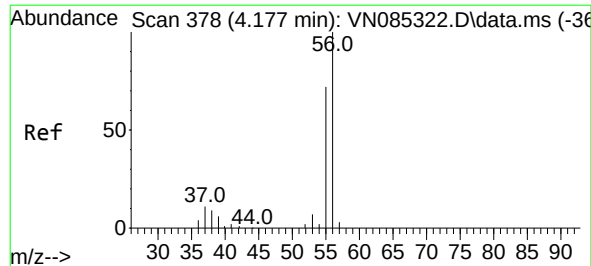
Ion Ratio Lower Upper

96 100

61 178.4 142.4 213.6

98 66.2 51.5 77.3





#13

Acrolein

Concen: 469.915 ug/l

RT: 4.171 min Scan# 37

Delta R.T. -0.006 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 204340

Ion Ratio Lower Upper

56 100

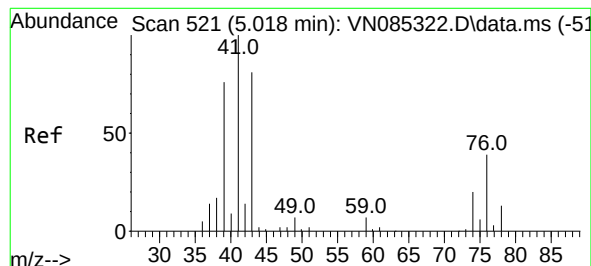
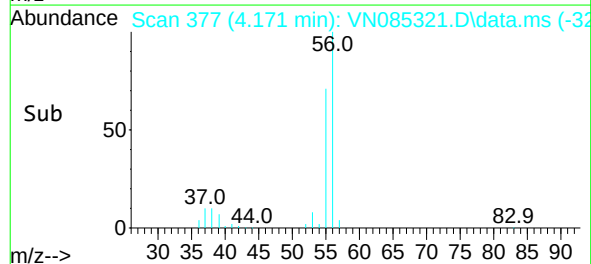
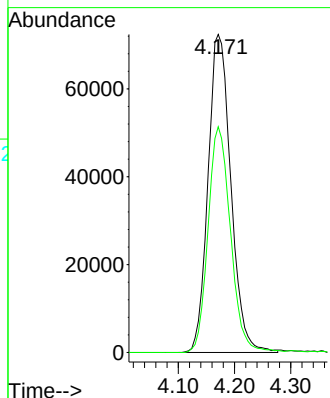
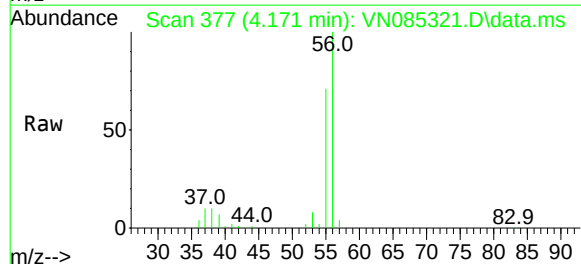
55 69.7 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#14

Allyl chloride

Concen: 97.537 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

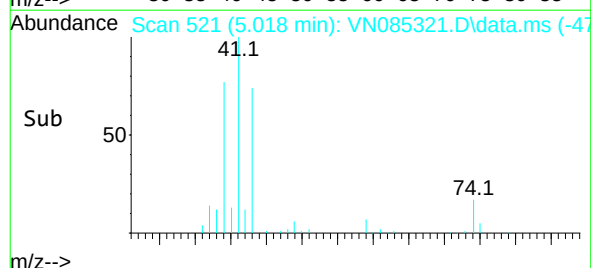
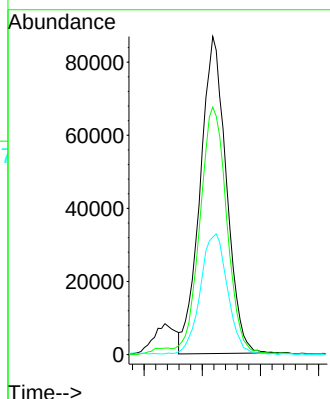
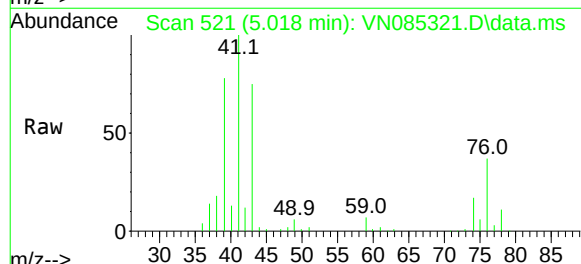
Tgt Ion: 41 Resp: 270904

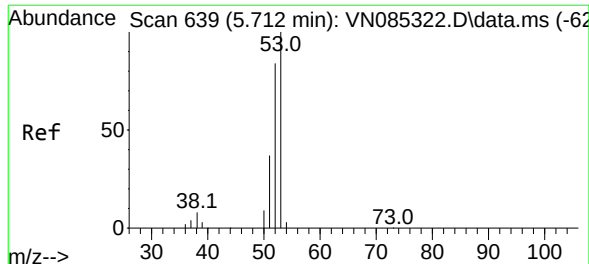
Ion Ratio Lower Upper

41 100

39 79.9 64.4 96.6

76 39.9 31.5 47.3





#15

Acrylonitrile

Concen: 485.009 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 425762

Ion Ratio Lower Upper

53 100

52 82.0 66.6 100.0

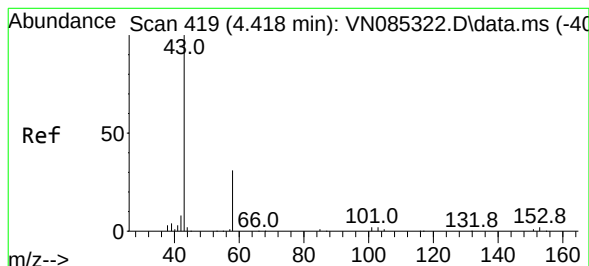
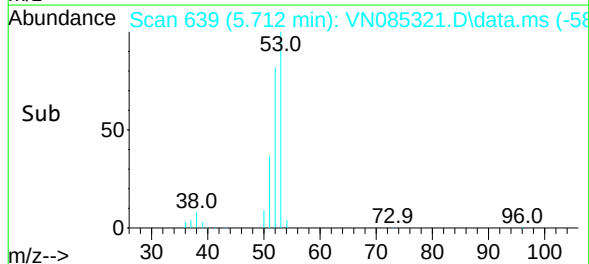
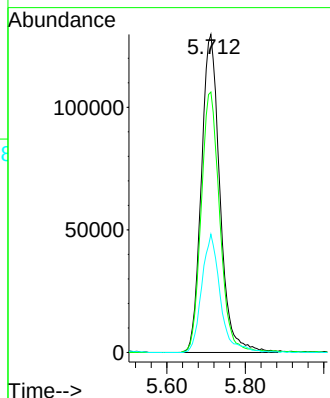
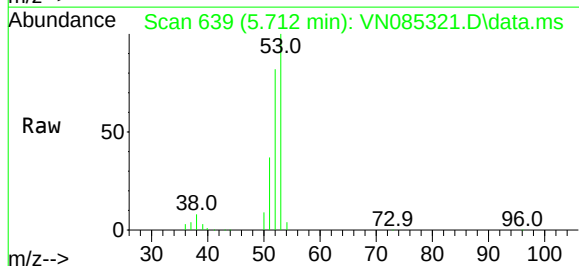
51 37.1 29.6 44.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#16

Acetone

Concen: 465.473 ug/l

RT: 4.418 min Scan# 419

Delta R.T. 0.000 min

Lab File: VN085321.D

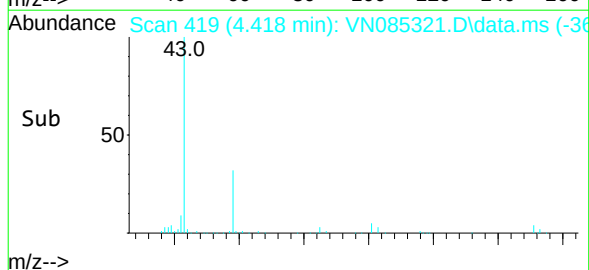
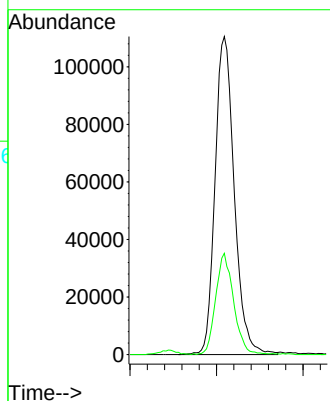
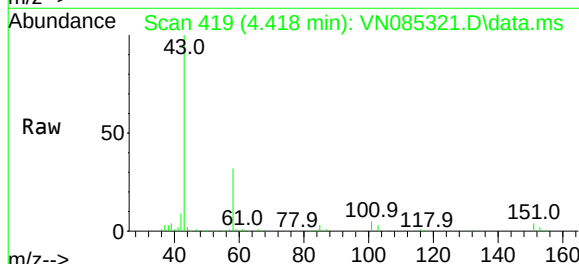
Acq: 27 Dec 2024 10:26

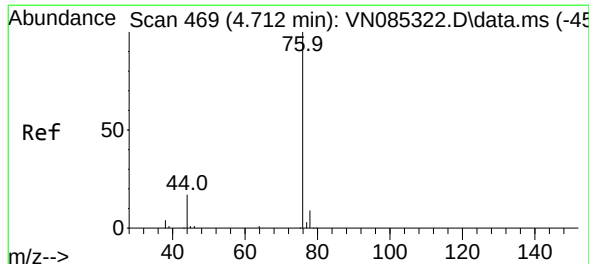
Tgt Ion: 43 Resp: 340922

Ion Ratio Lower Upper

43 100

58 31.6 24.5 36.7





#17

Carbon Disulfide

Concen: 91.760 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085321.D

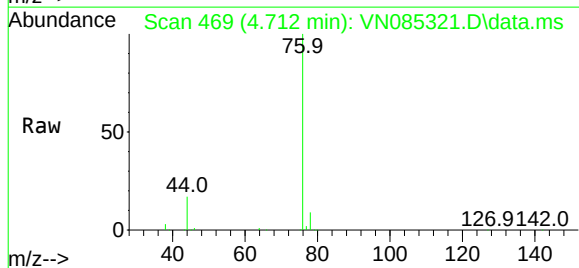
Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100



Tgt Ion: 76 Resp: 484441

Ion Ratio Lower Upper

76 100

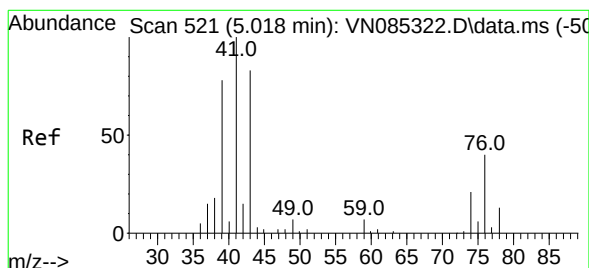
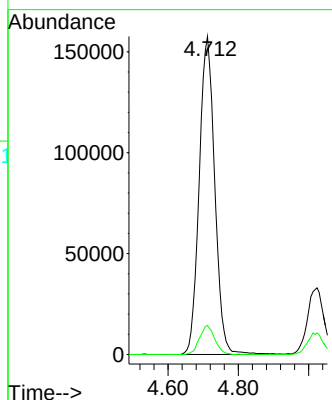
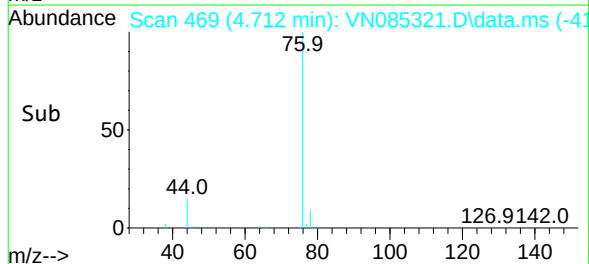
78 9.1 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#18

Methyl Acetate

Concen: 95.974 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085321.D

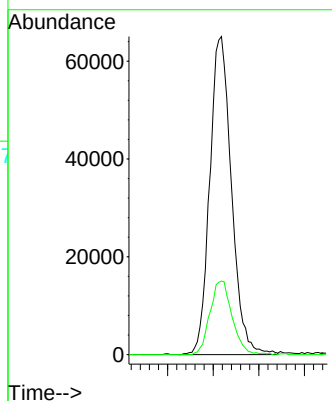
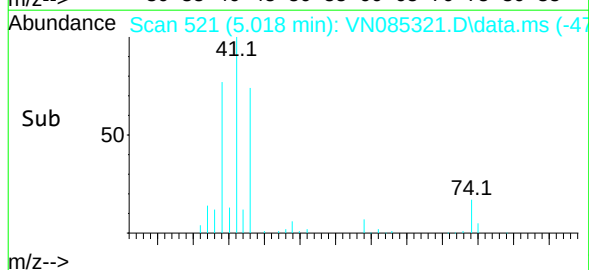
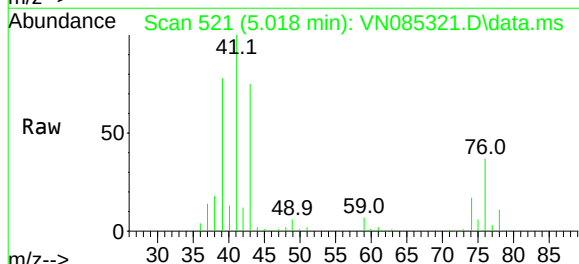
Acq: 27 Dec 2024 10:26

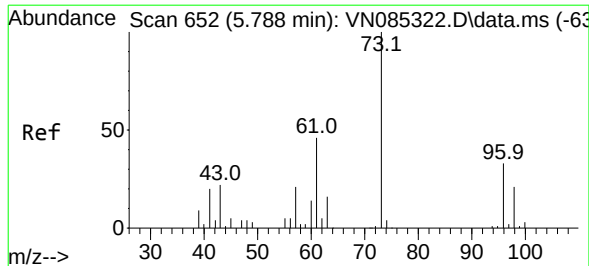
Tgt Ion: 43 Resp: 215207

Ion Ratio Lower Upper

43 100

74 23.7 19.0 28.6





#19

Methyl tert-butyl Ether

Concen: 103.894 ug/l

RT: 5.789 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 586031

Ion Ratio Lower Upper

73 100

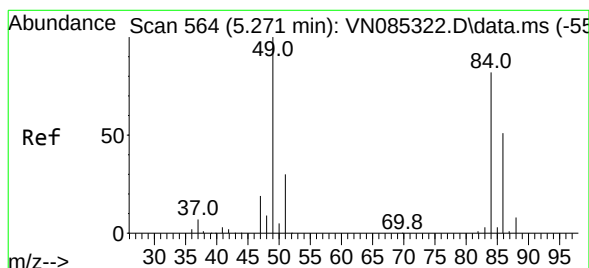
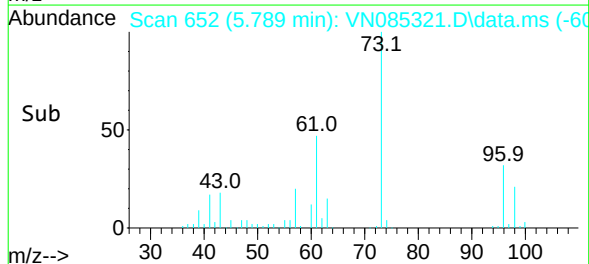
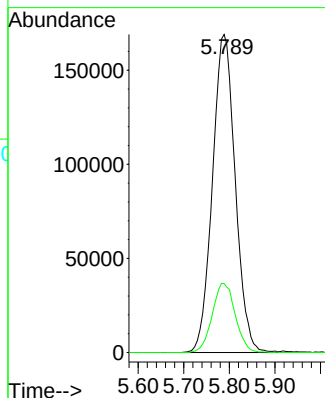
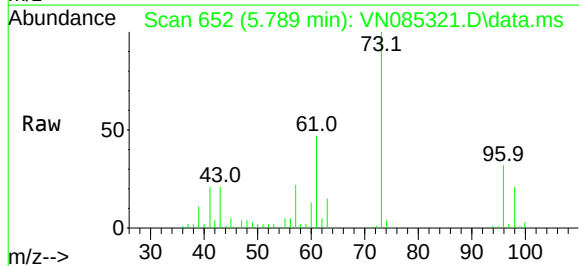
57 21.7 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#20

Methylene Chloride

Concen: 96.119 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Tgt Ion: 84 Resp: 189358

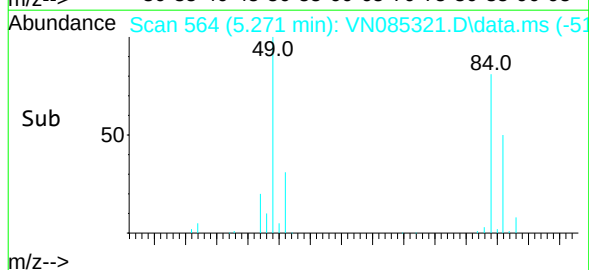
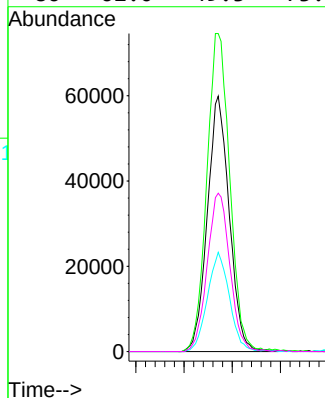
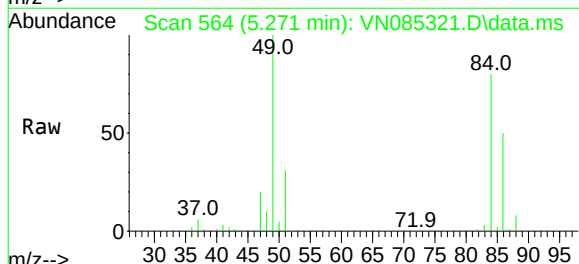
Ion Ratio Lower Upper

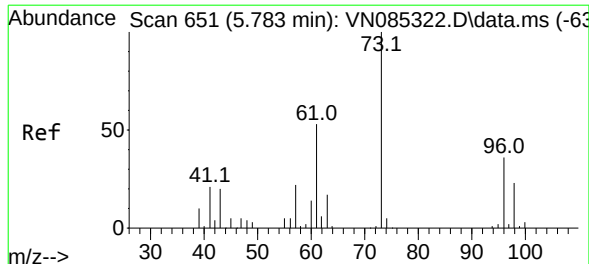
84 100

49 124.5 97.6 146.4

51 38.9 29.1 43.7

86 62.0 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 97.703 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085321.D

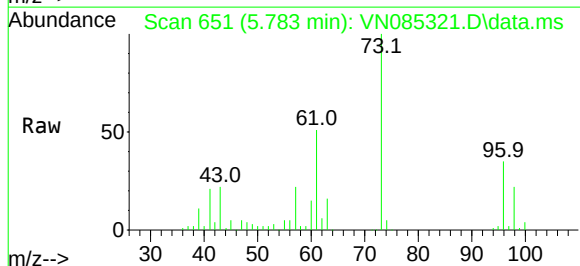
Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

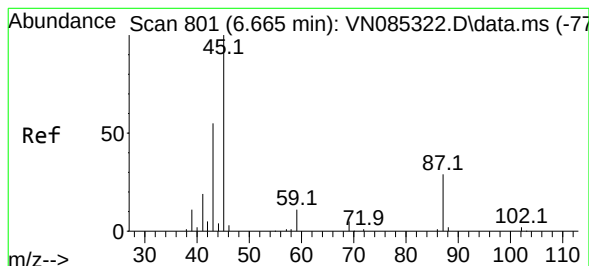
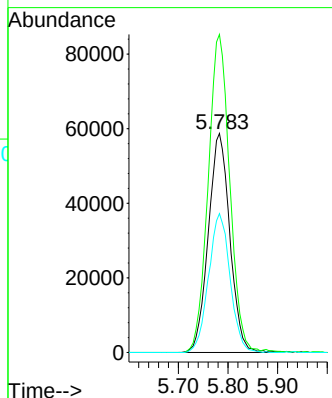
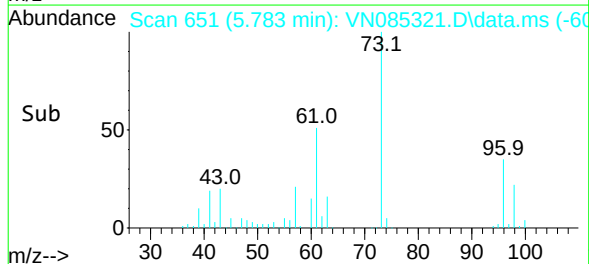
VSTDICC100



Tgt Ion:	96	Resp:	177119
Ion	Ratio	Lower	Upper
96	100		
61	145.2	118.0	177.0
98	63.4	50.6	75.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#22

Diisopropyl ether

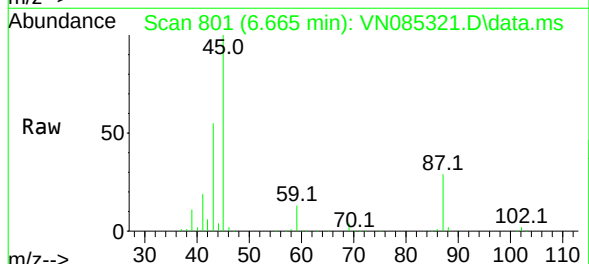
Concen: 104.224 ug/l

RT: 6.665 min Scan# 801

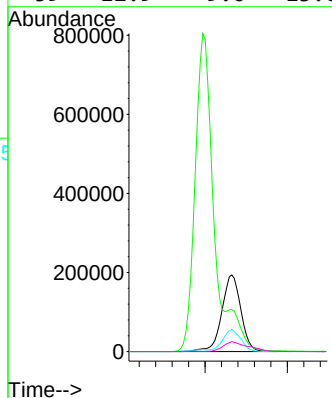
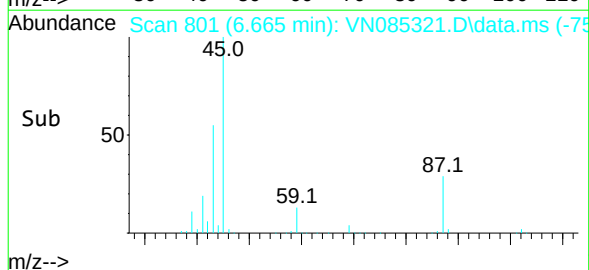
Delta R.T. 0.000 min

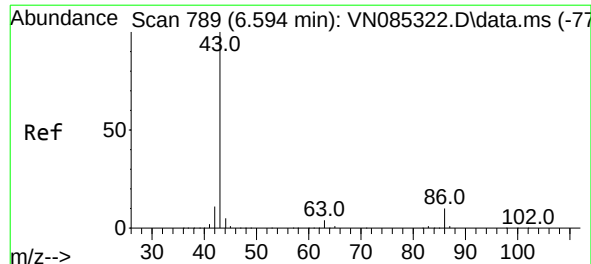
Lab File: VN085321.D

Acq: 27 Dec 2024 10:26



Tgt Ion:	45	Resp:	623798
Ion	Ratio	Lower	Upper
45	100		
43	54.0	44.1	66.1
87	29.1	23.2	34.8
59	12.9	9.0	13.6





#23

Vinyl Acetate

Concen: 539.108 ug/l

RT: 6.594 min Scan# 789

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 2319612

Ion Ratio Lower Upper

43 100

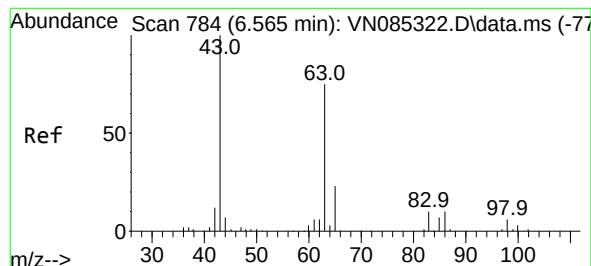
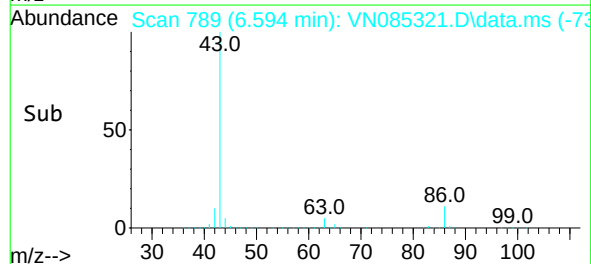
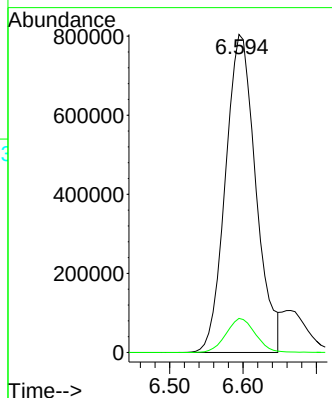
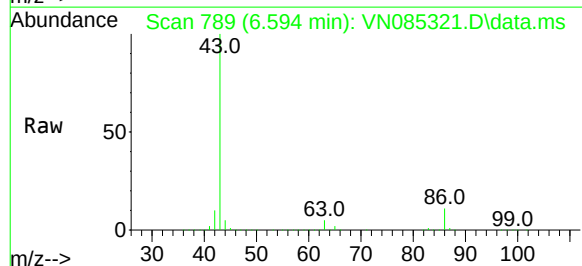
86 10.7 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#24

1,1-Dichloroethane

Concen: 99.165 ug/l

RT: 6.559 min Scan# 783

Delta R.T. -0.006 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

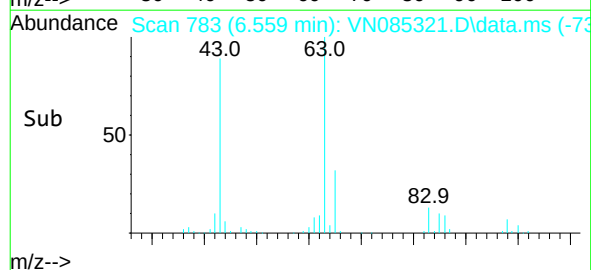
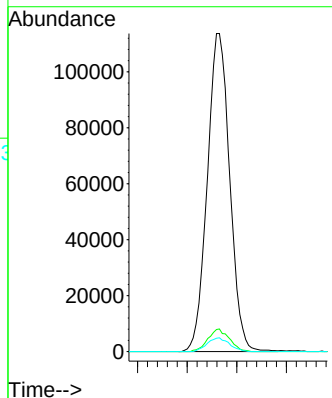
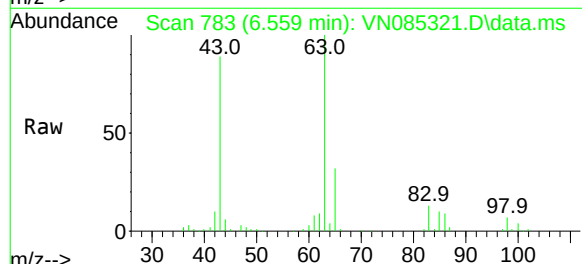
Tgt Ion: 63 Resp: 357527

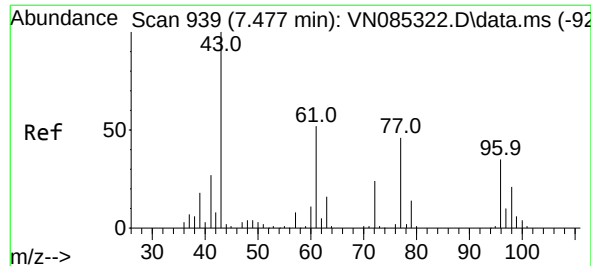
Ion Ratio Lower Upper

63 100

98 6.9 3.7 11.1

100 4.2 2.3 6.8





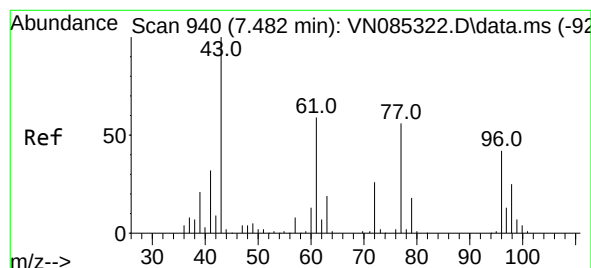
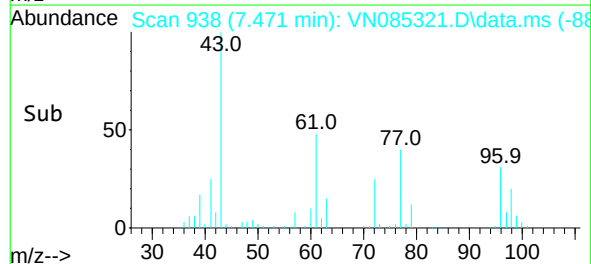
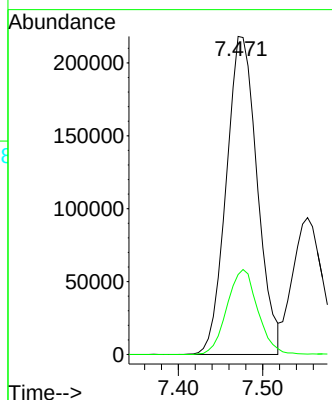
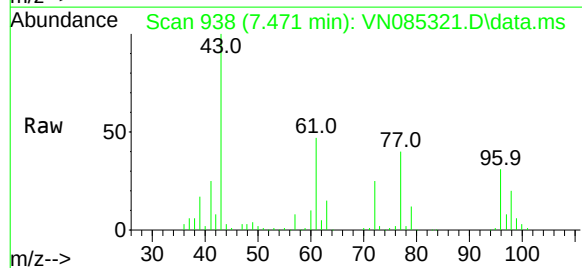
#25
2-Butanone
Concen: 490.229 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 43 Resp: 557035
Ion Ratio Lower Upper
43 100
72 25.1 19.6 29.4

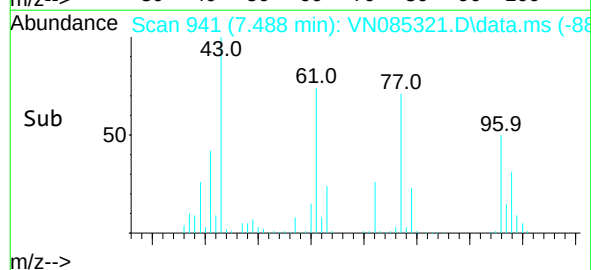
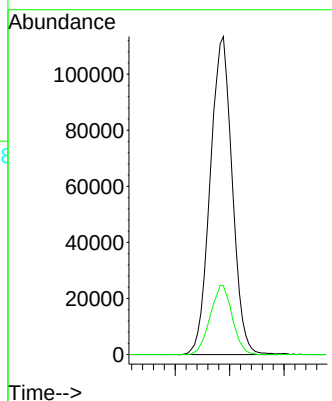
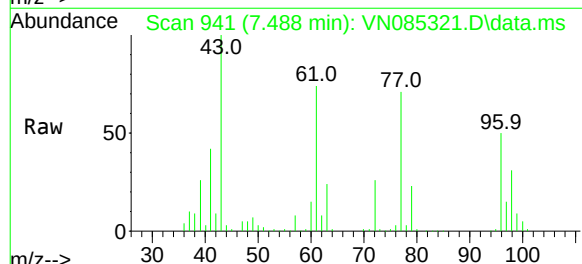
Manual Integrations
APPROVED

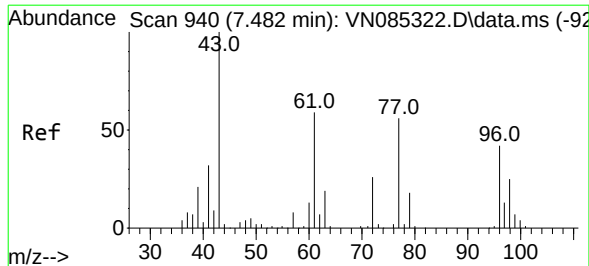
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#26
2,2-Dichloropropane
Concen: 100.909 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

Tgt Ion: 77 Resp: 318743
Ion Ratio Lower Upper
77 100
97 21.8 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 102.909 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 218963

Ion Ratio Lower Upper

96 100

61 151.4 0.0 296.4

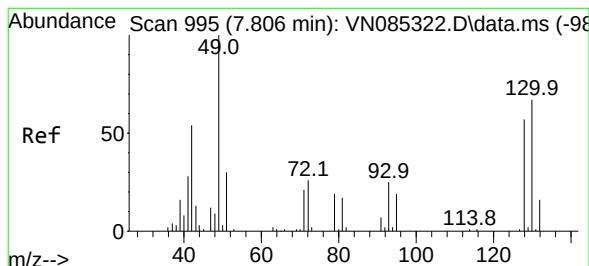
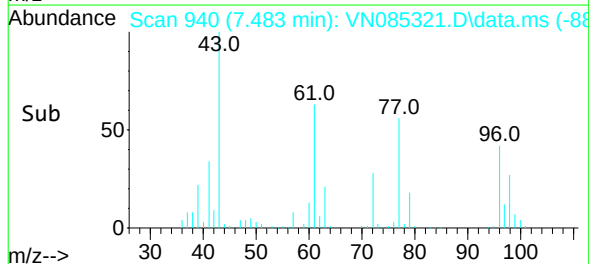
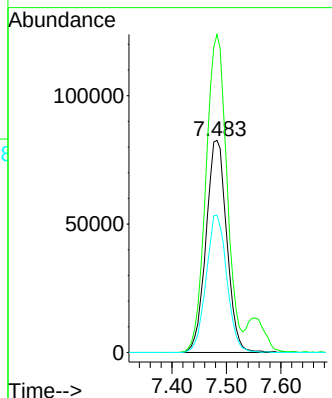
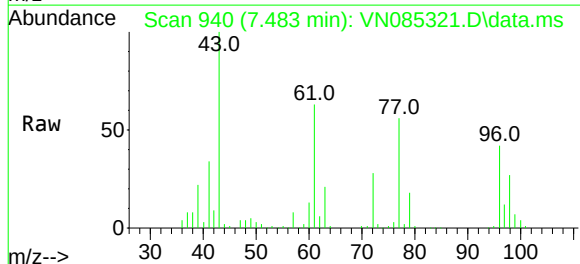
98 64.6 0.0 124.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#28

Bromochloromethane

Concen: 104.430 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

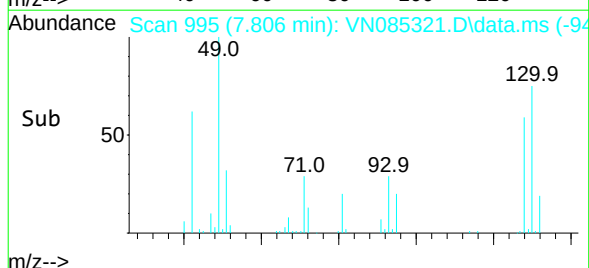
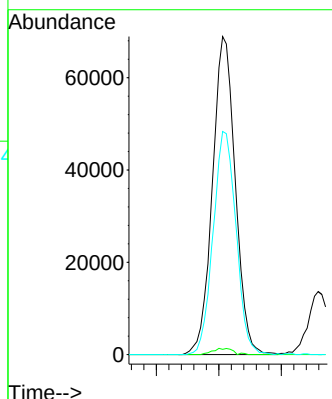
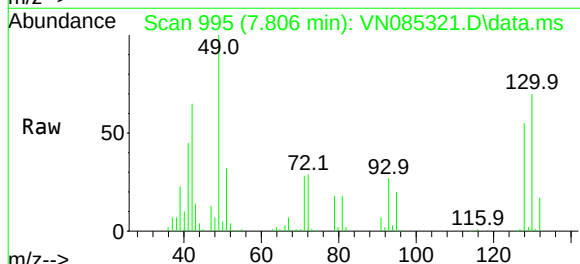
Tgt Ion: 49 Resp: 174969

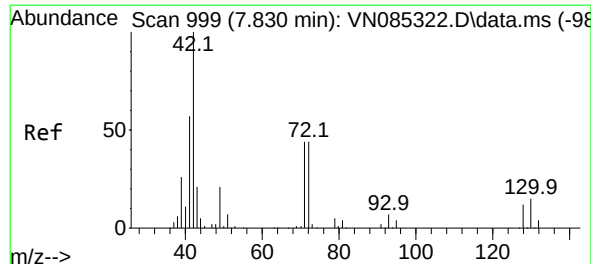
Ion Ratio Lower Upper

49 100

129 1.7 0.0 2.0

130 70.4 0.0 0.0#





#29

Tetrahydrofuran

Concen: 511.419 ug/l

RT: 7.830 min Scan# 999

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 42 Resp: 374323

Ion Ratio Lower Upper

42 100

72 44.3 35.1 52.7

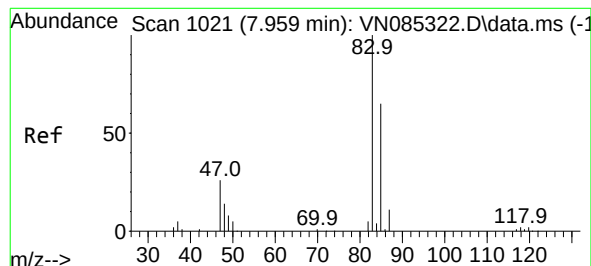
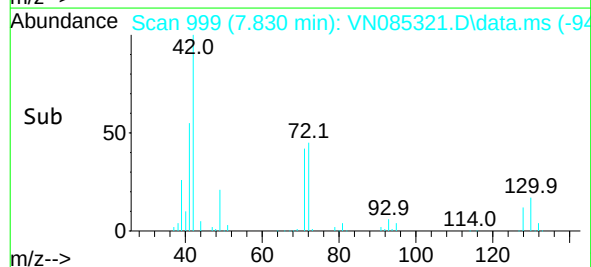
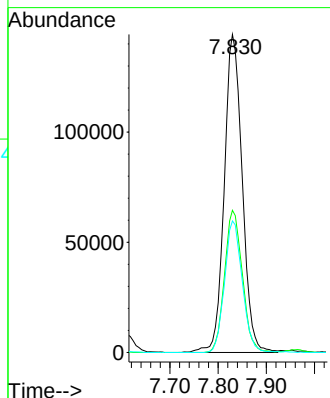
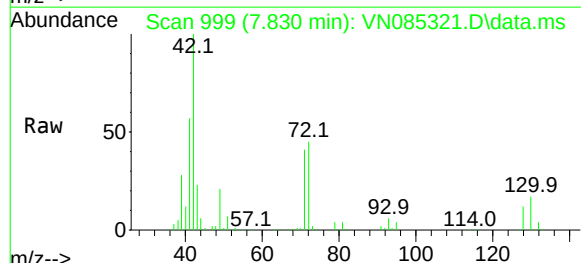
71 40.8 33.4 50.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#30

Chloroform

Concen: 97.837 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085321.D

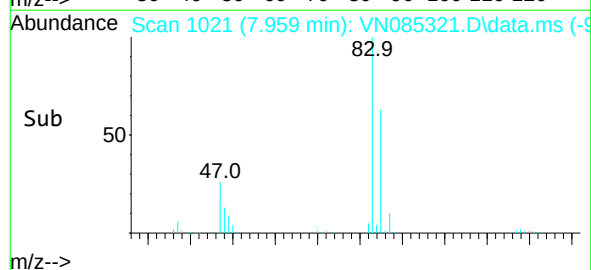
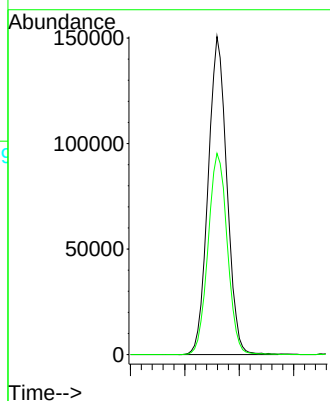
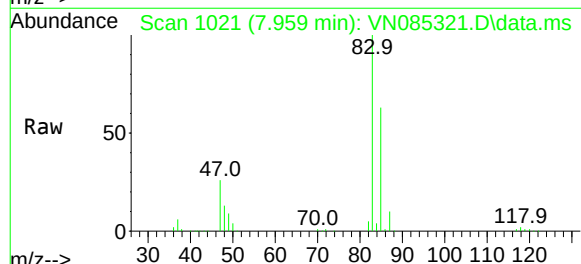
Acq: 27 Dec 2024 10:26

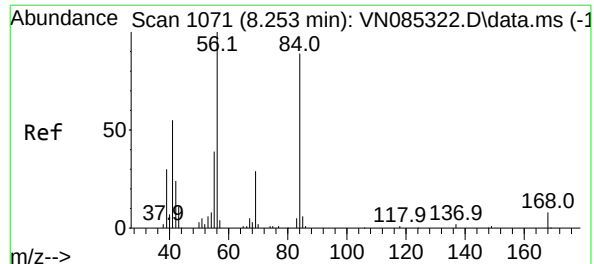
Tgt Ion: 83 Resp: 360866

Ion Ratio Lower Upper

83 100

85 63.2 52.0 78.0





#31

Cyclohexane

Concen: 93.310 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 307196

Ion Ratio Lower Upper

56 100

69 29.9 23.4 35.0

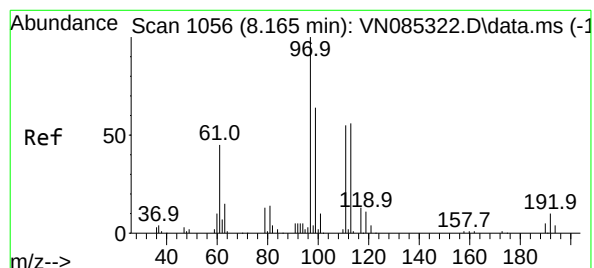
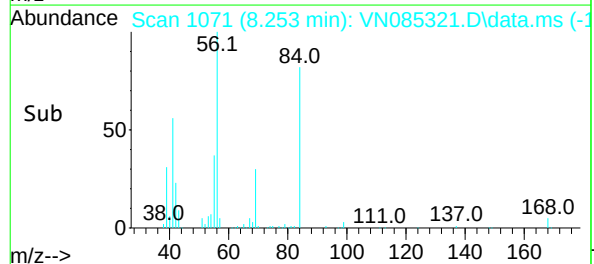
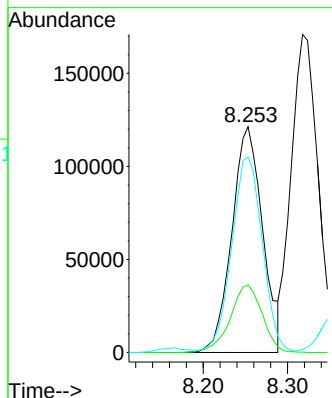
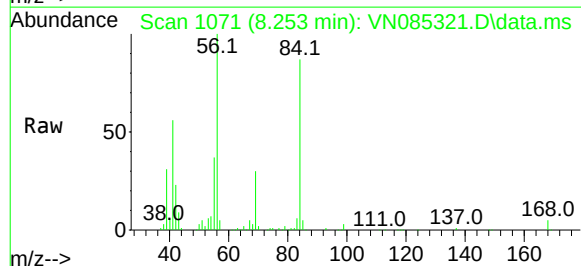
84 85.0 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#32

1,1,1-Trichloroethane

Concen: 98.891 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

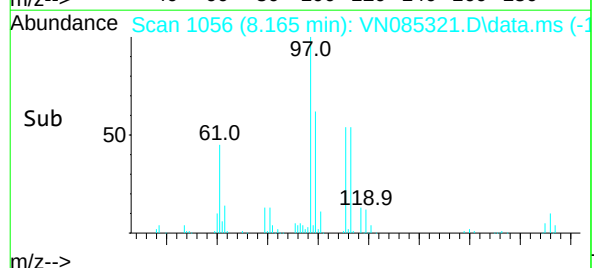
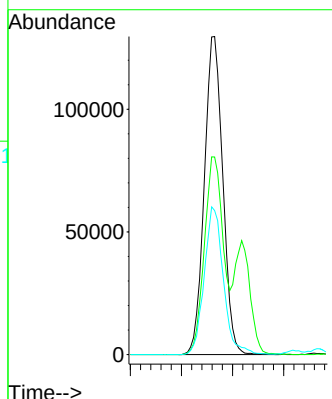
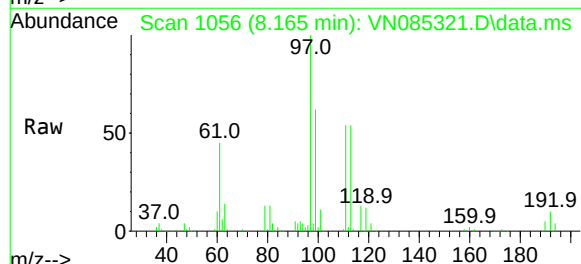
Tgt Ion: 97 Resp: 325760

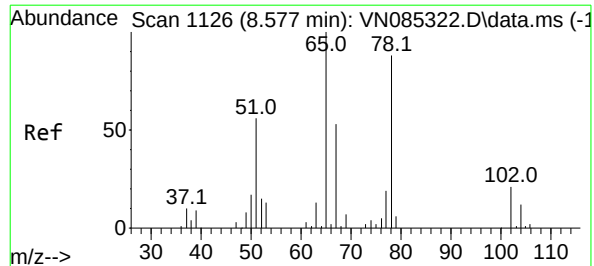
Ion Ratio Lower Upper

97 100

99 63.7 53.3 79.9

61 48.2 39.6 59.4





#33

1,2-Dichloroethane-d4

Concen: 100.315 ug/l

RT: 8.571 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 223438

Ion Ratio Lower Upper

65 100

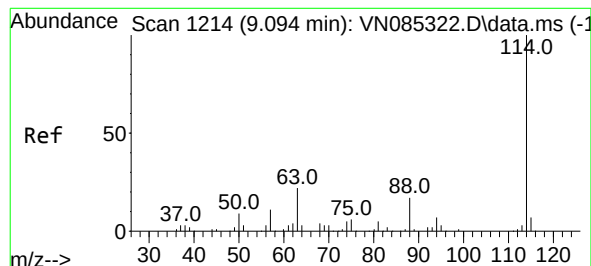
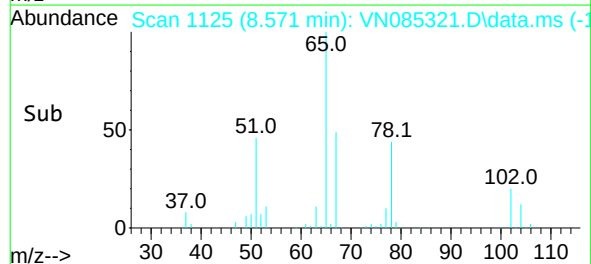
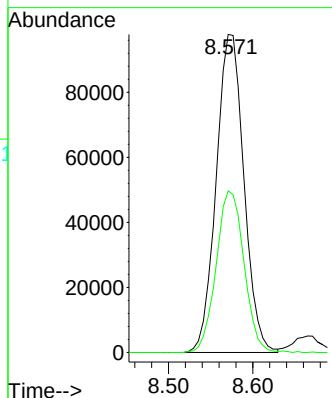
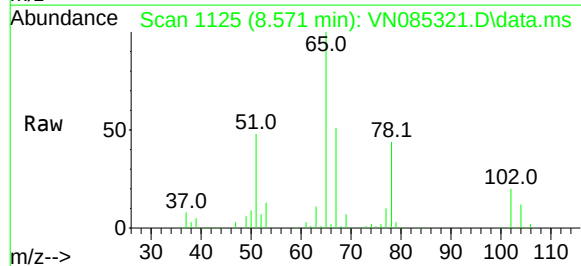
67 51.0 0.0 104.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

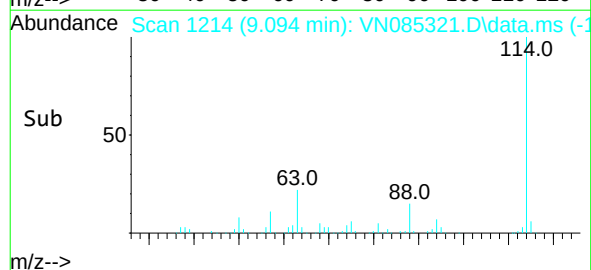
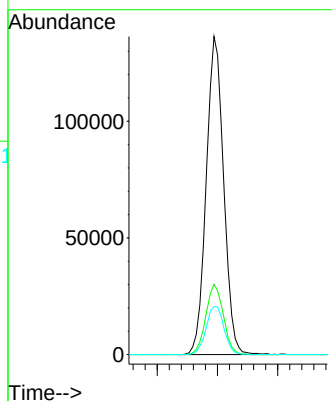
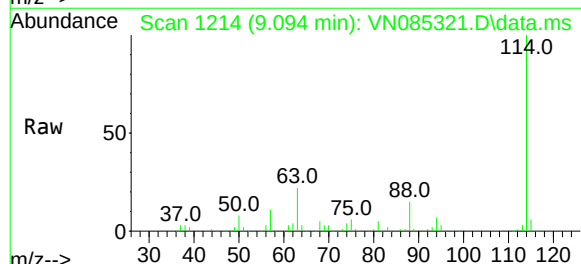
Tgt Ion:114 Resp: 274313

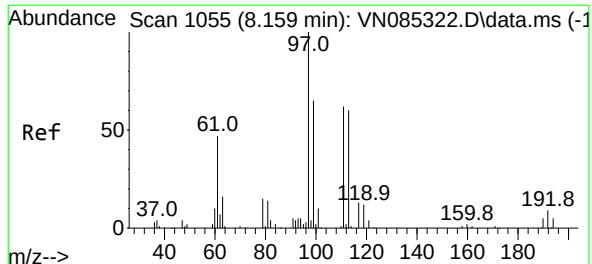
Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.4

88 15.1 0.0 33.6





#35

Dibromofluoromethane

Concen: 101.117 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:113 Resp: 173043

Ion Ratio Lower Upper

113 100

111 103.0 80.5 120.7

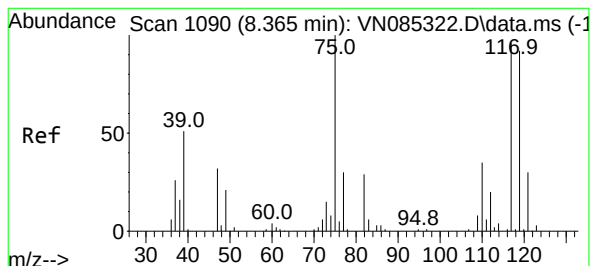
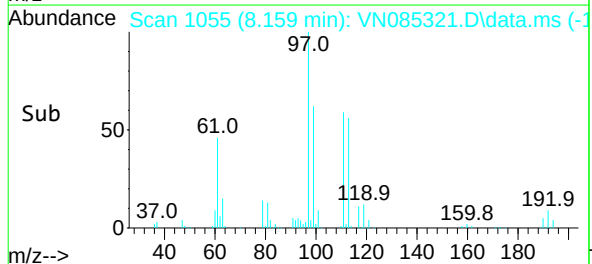
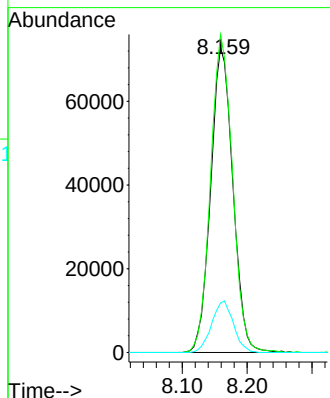
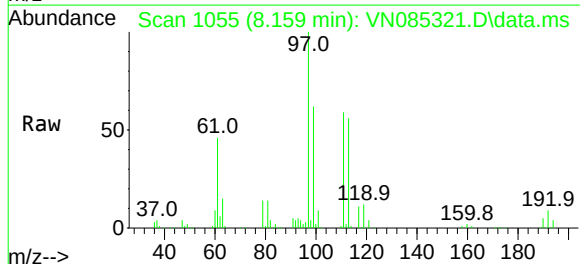
192 16.6 12.9 19.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#36

1,1-Dichloropropene

Concen: 104.994 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

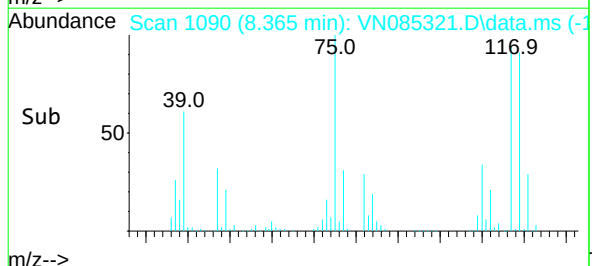
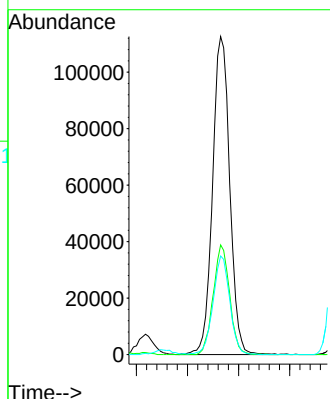
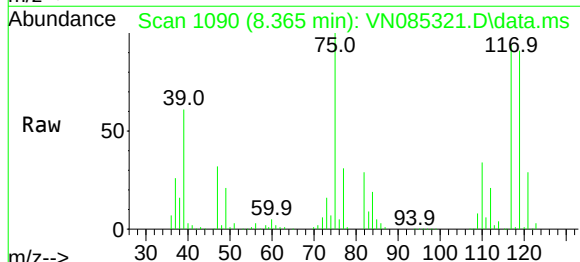
Tgt Ion: 75 Resp: 263076

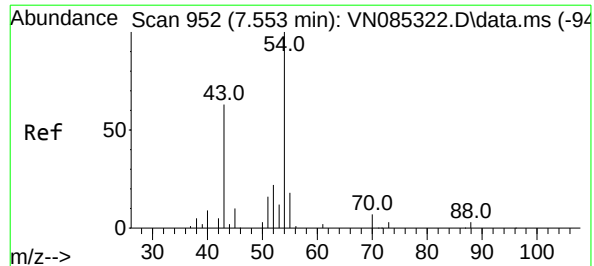
Ion Ratio Lower Upper

75 100

110 32.8 16.6 49.8

77 30.2 24.3 36.5





#37

Ethyl Acetate

Concen: 96.040 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 239186

Ion Ratio Lower Upper

43 100

61 13.5 10.4 15.6

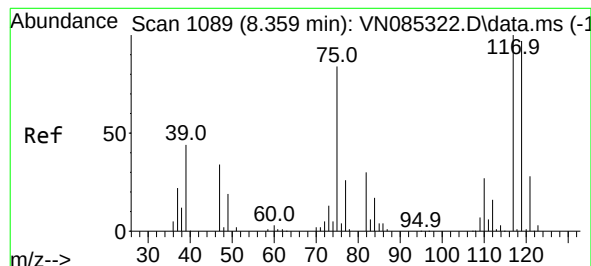
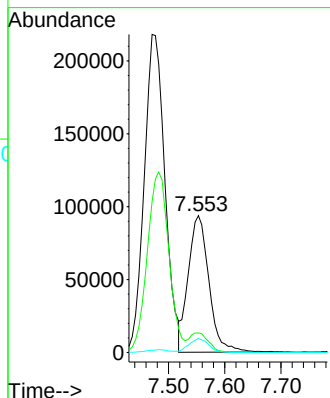
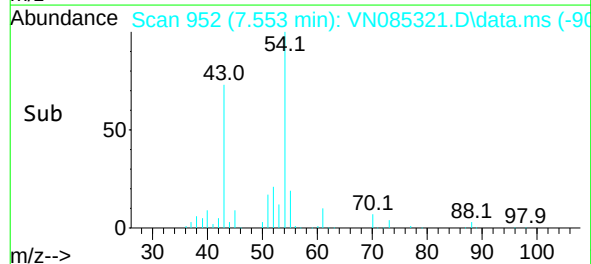
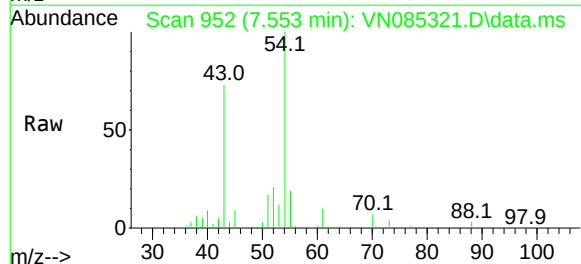
70 9.7 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#38

Carbon Tetrachloride

Concen: 103.563 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

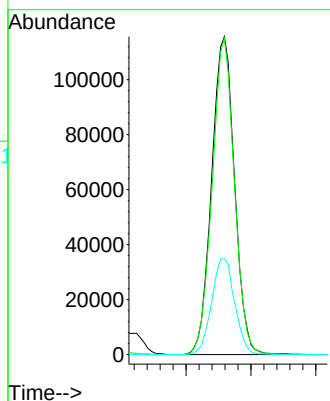
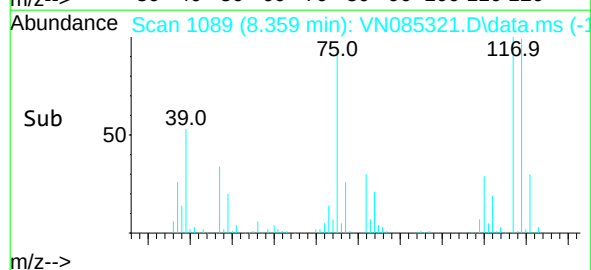
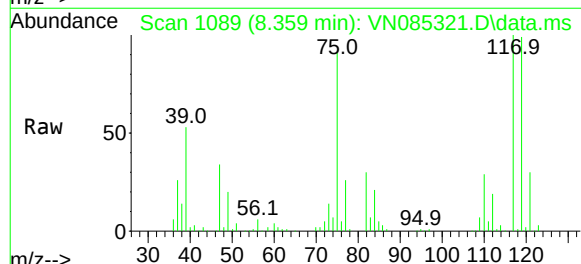
Tgt Ion:117 Resp: 282846

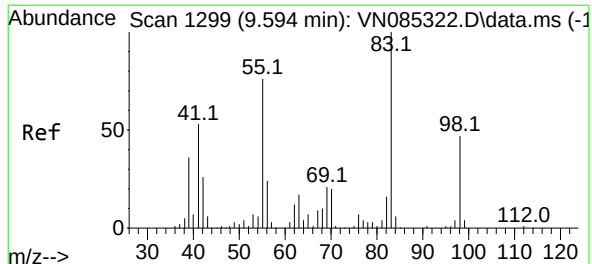
Ion Ratio Lower Upper

117 100

119 99.4 77.8 116.6

121 30.1 22.5 33.7





#39

Methylcyclohexane

Concen: 113.903 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 296114

Ion Ratio Lower Upper

83 100

55 74.5 60.7 91.1

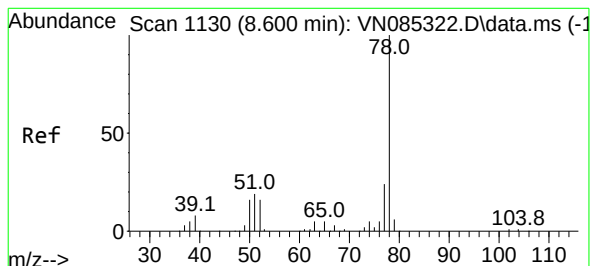
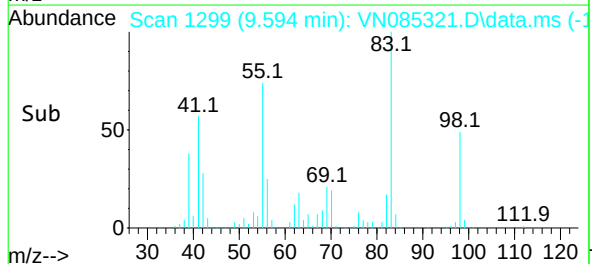
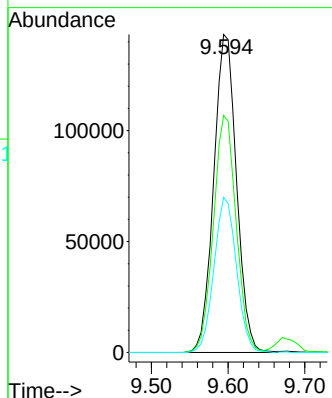
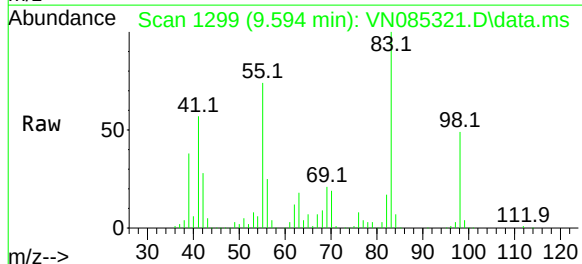
98 48.8 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#40

Benzene

Concen: 102.248 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085321.D

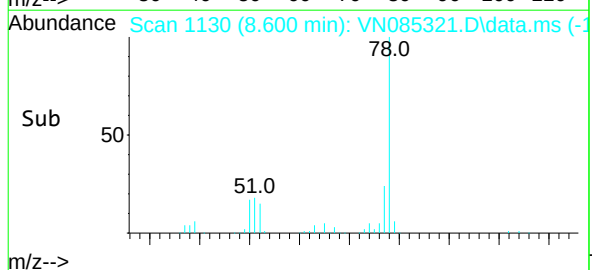
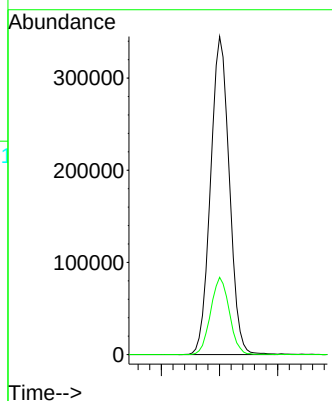
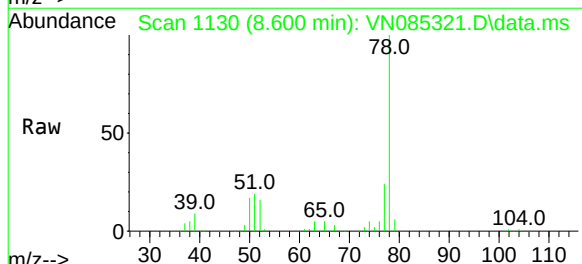
Acq: 27 Dec 2024 10:26

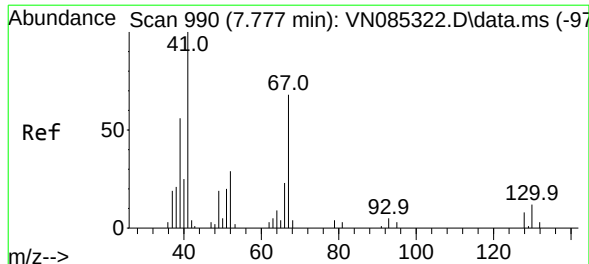
Tgt Ion: 78 Resp: 774590

Ion Ratio Lower Upper

78 100

77 24.3 19.0 28.4





#41

Methacrylonitrile

Concen: 108.014 ug/l

RT: 7.771 min Scan# 98

Delta R.T. -0.006 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 41 Resp: 137768

Ion Ratio Lower Upper

41 100

39 56.9 45.8 68.8

67 70.5 57.1 85.7

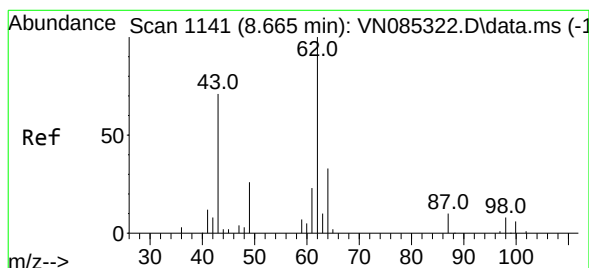
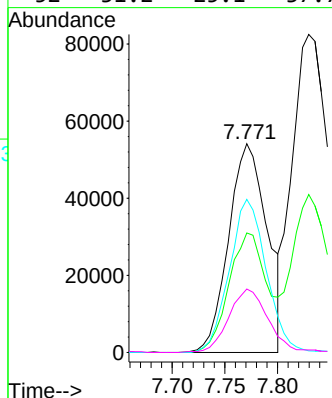
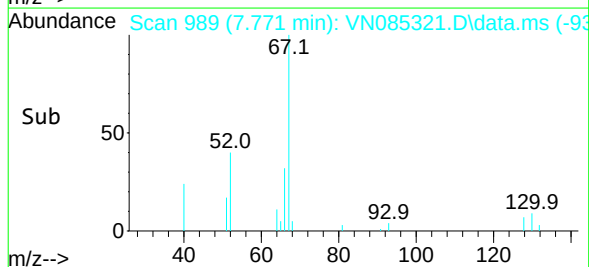
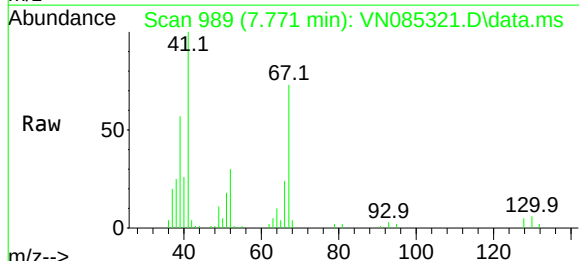
52 31.2 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#42

1,2-Dichloroethane

Concen: 98.781 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085321.D

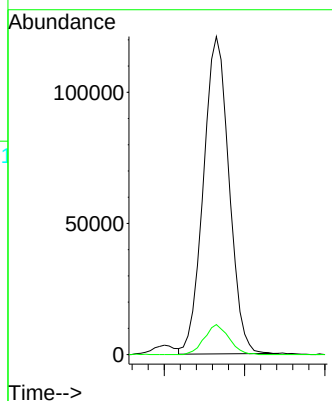
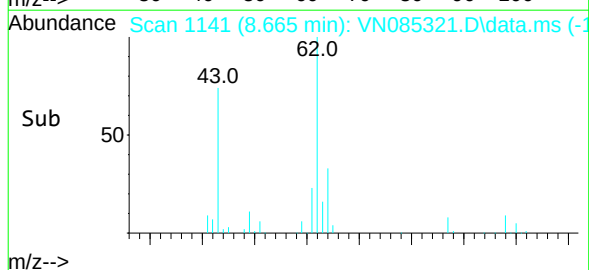
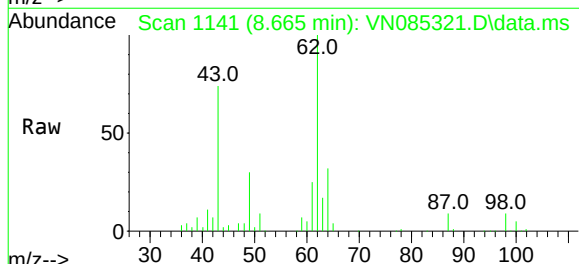
Acq: 27 Dec 2024 10:26

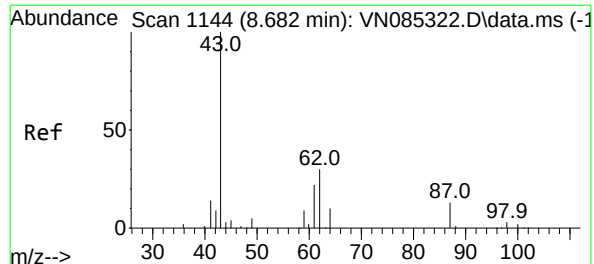
Tgt Ion: 62 Resp: 268298

Ion Ratio Lower Upper

62 100

98 9.1 0.0 17.6





#43

Isopropyl Acetate

Concen: 104.030 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 426602

Ion Ratio Lower Upper

43 100

61 26.1 20.8 31.2

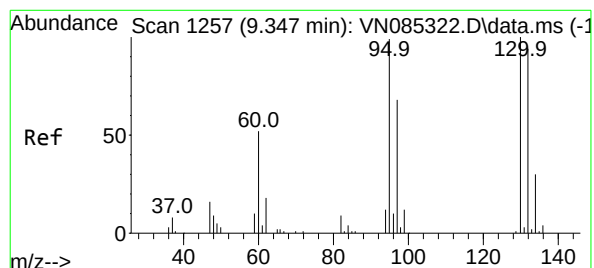
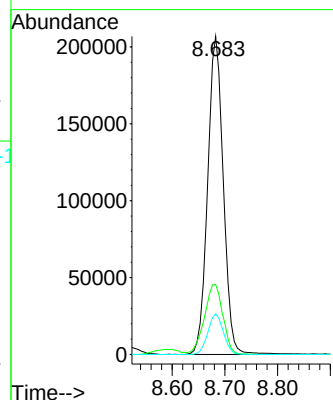
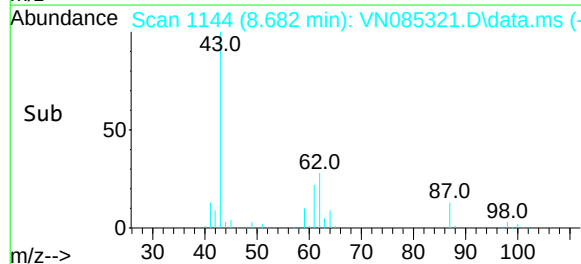
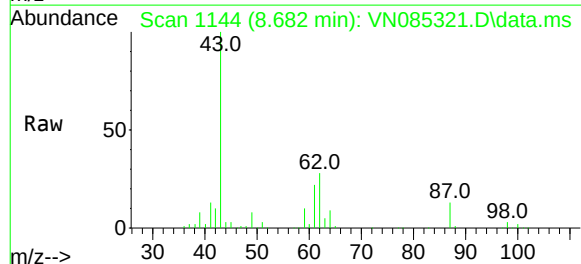
87 12.7 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#44

Trichloroethene

Concen: 100.266 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085321.D

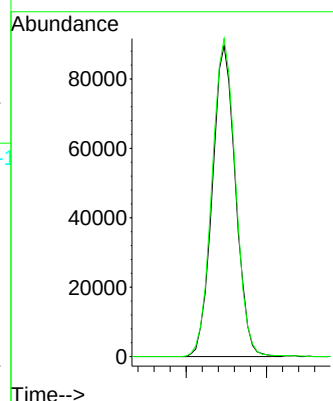
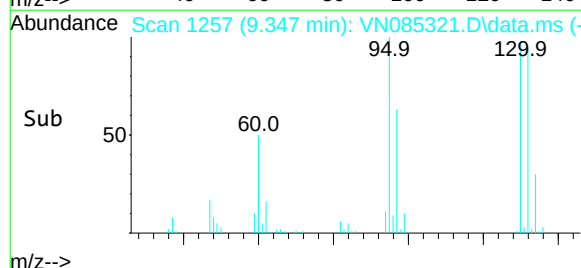
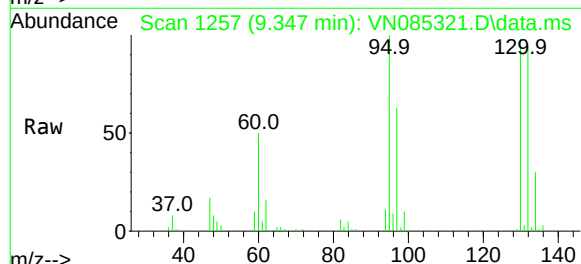
Acq: 27 Dec 2024 10:26

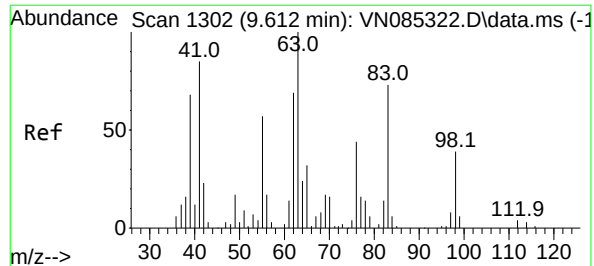
Tgt Ion:130 Resp: 179832

Ion Ratio Lower Upper

130 100

95 102.3 0.0 197.8





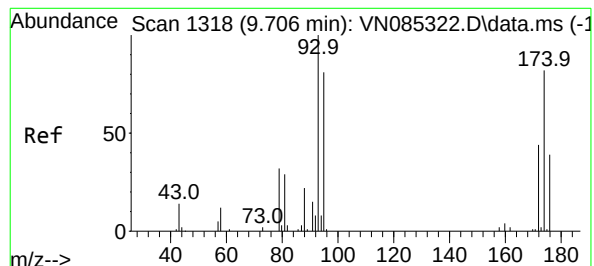
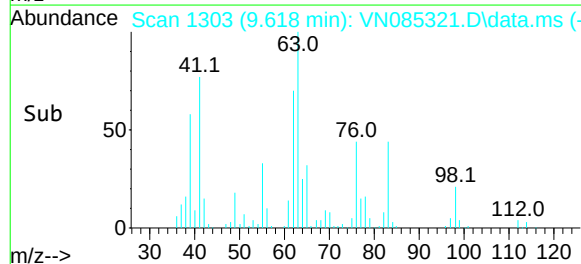
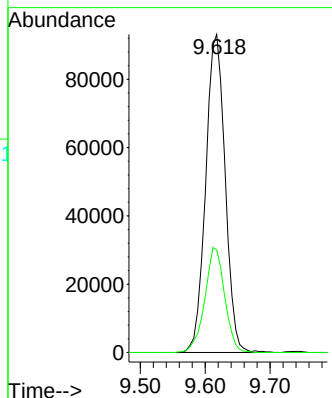
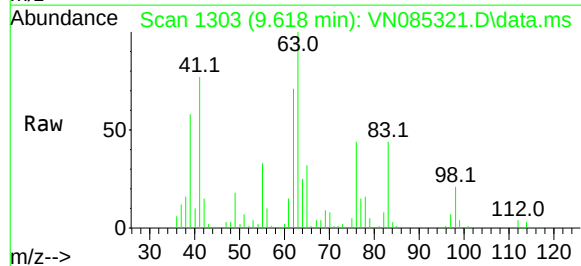
#45
1,2-Dichloropropane
Concen: 100.585 ug/l
RT: 9.618 min Scan# 1302
Delta R.T. 0.006 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 63 Resp: 193438
Ion Ratio Lower Upper
63 100
65 32.3 25.5 38.3

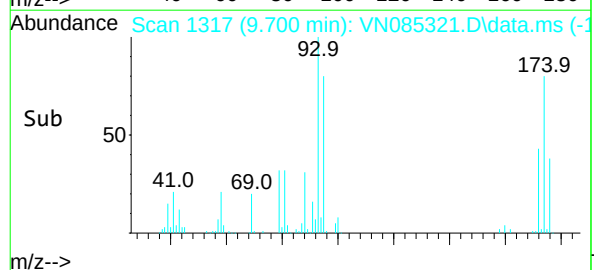
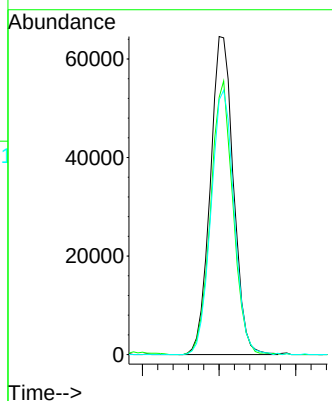
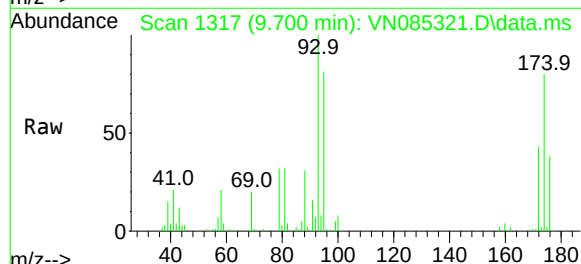
Manual Integrations
APPROVED

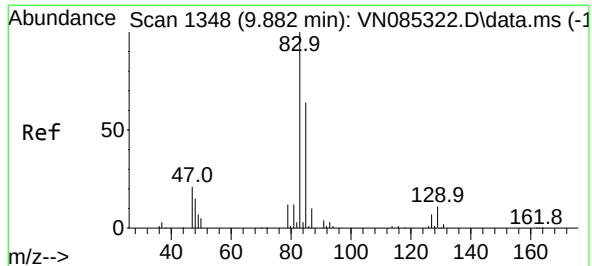
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#46
Dibromomethane
Concen: 101.355 ug/l
RT: 9.700 min Scan# 1317
Delta R.T. -0.006 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

Tgt Ion: 93 Resp: 135558
Ion Ratio Lower Upper
93 100
95 82.9 65.3 97.9
174 82.8 66.4 99.6





#47

Bromodichloromethane

Concen: 103.761 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

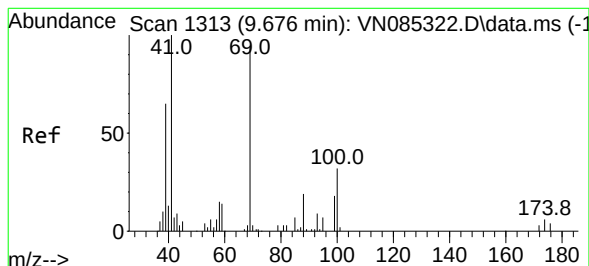
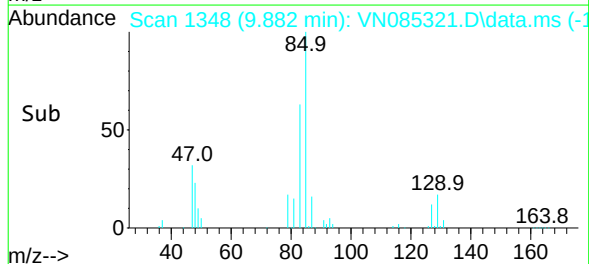
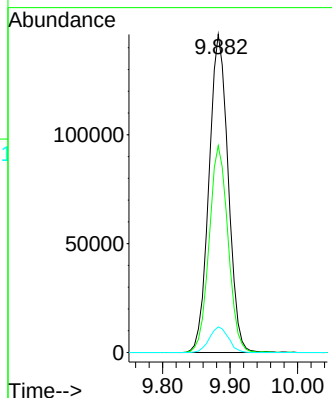
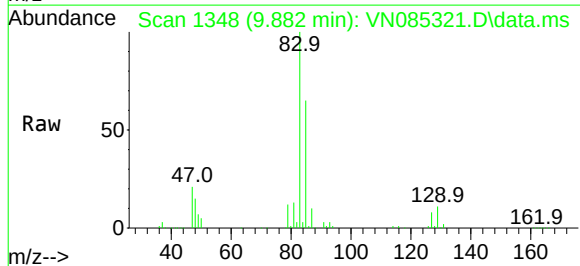
ClientSampleId :

VSTDIC100

Tgt Ion:	83	Resp:	288439
Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.0	76.4
127	8.0	5.8	8.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#48

Methyl methacrylate

Concen: 109.038 ug/l

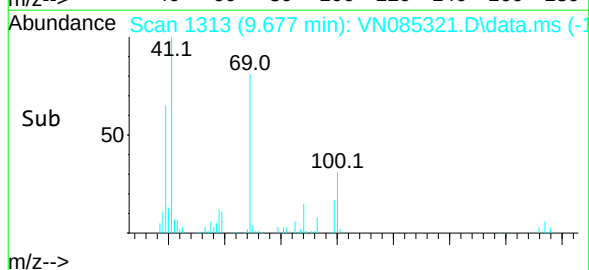
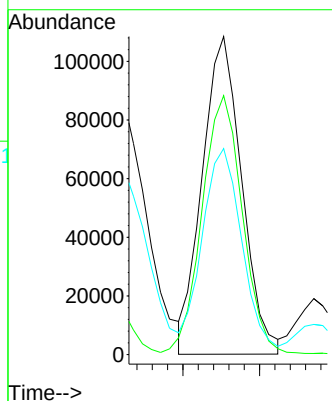
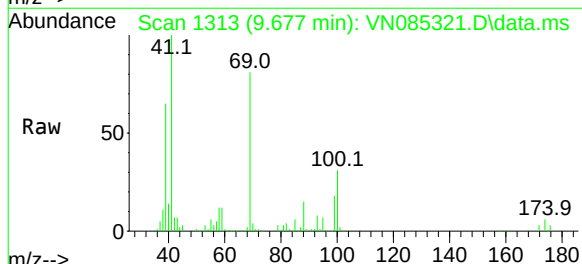
RT: 9.677 min Scan# 1313

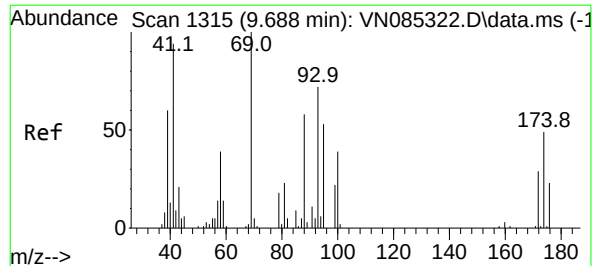
Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

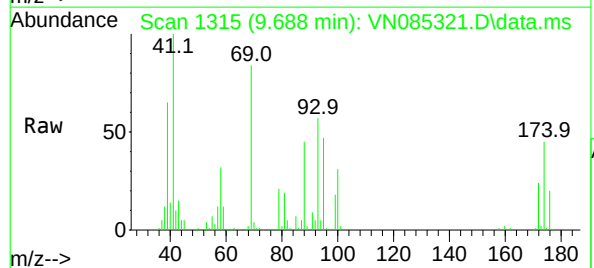
Tgt Ion:	41	Resp:	194022
Ion	Ratio	Lower	Upper
41	100		
69	83.2	67.7	101.5
39	65.4	51.2	76.8





#49
1,4-Dioxane
Concen: 2096.049 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

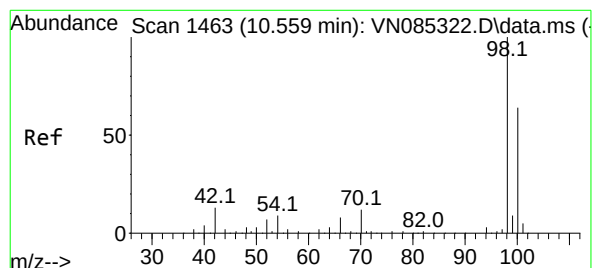
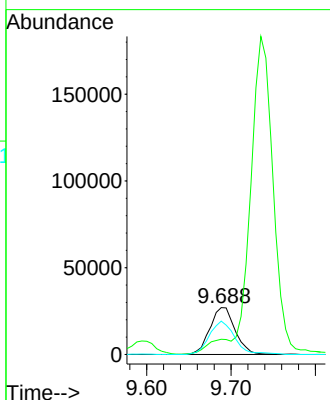
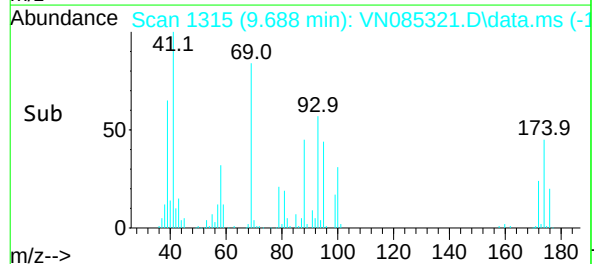
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100



Tgt Ion: 88 Resp: 56273
Ion Ratio Lower Upper
88 100
43 0.0 22.1 33.1#
58 71.6 56.7 85.1

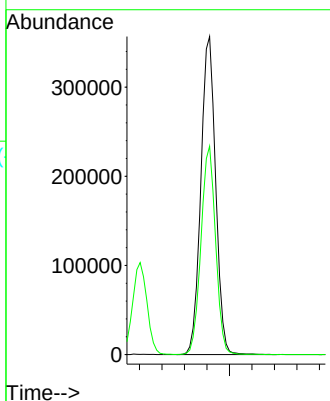
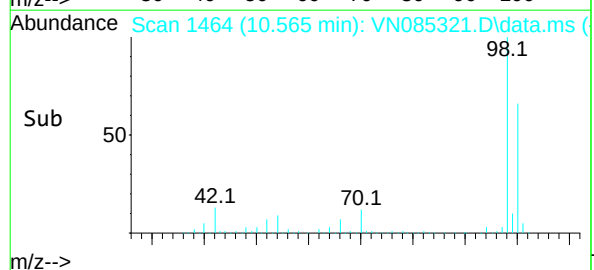
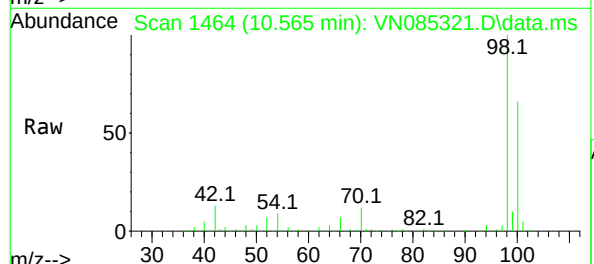
Manual Integrations
APPROVED

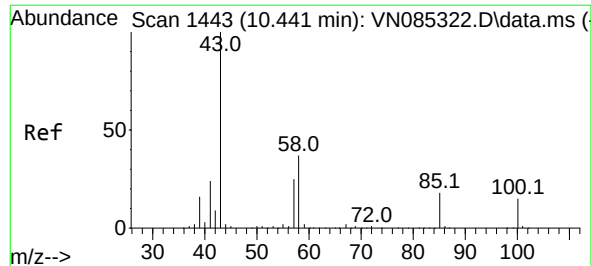
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#50
Toluene-d8
Concen: 103.853 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

Tgt Ion: 98 Resp: 652176
Ion Ratio Lower Upper
98 100
100 64.5 51.5 77.3





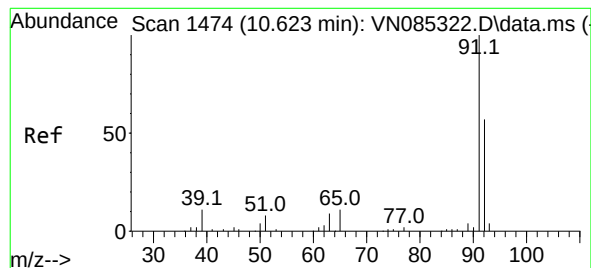
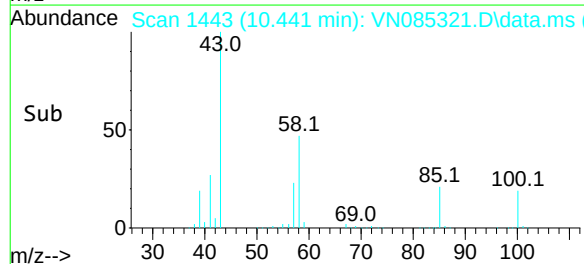
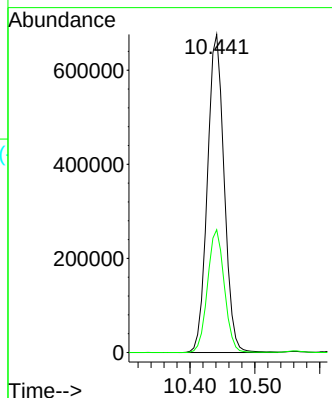
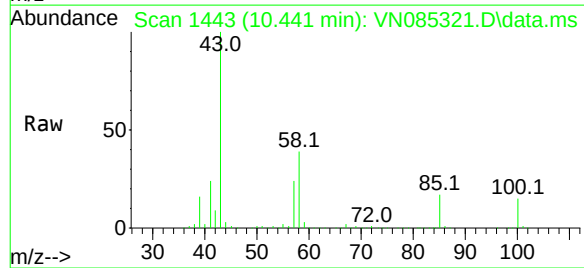
#51
4-Methyl-2-Pentanone
Concen: 525.905 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1211949
Ion Ratio Lower Upper
43 100
58 38.6 30.3 45.5

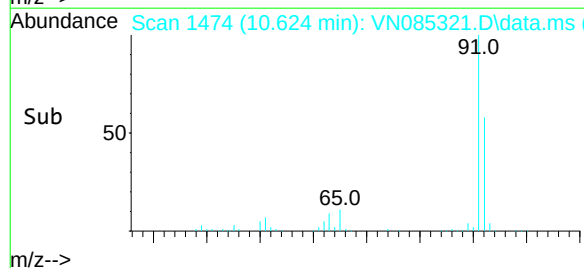
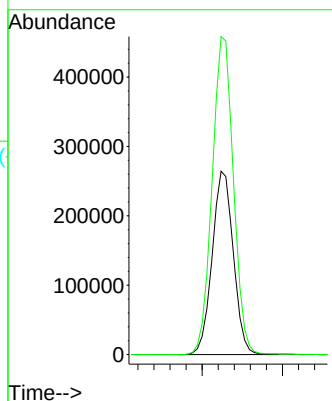
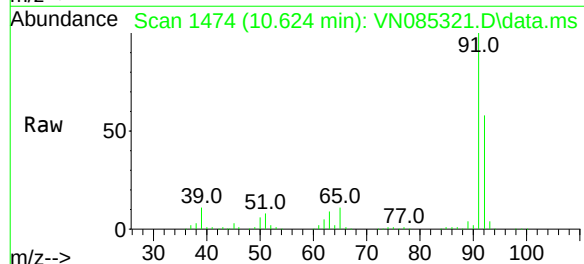
Manual Integrations
APPROVED

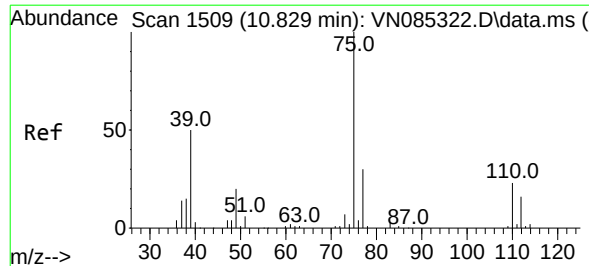
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#52
Toluene
Concen: 107.195 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

Tgt Ion: 92 Resp: 483534
Ion Ratio Lower Upper
92 100
91 174.8 140.2 210.4





#53

t-1,3-Dichloropropene

Concen: 111.463 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 304711

Ion Ratio Lower Upper

75 100

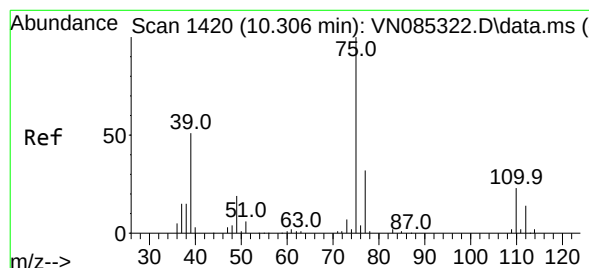
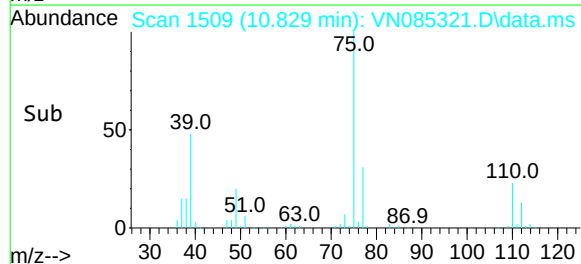
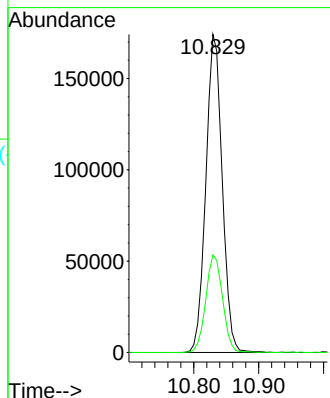
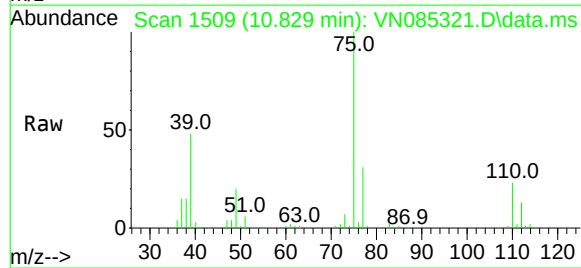
77 30.7 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#54

cis-1,3-Dichloropropene

Concen: 107.971 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

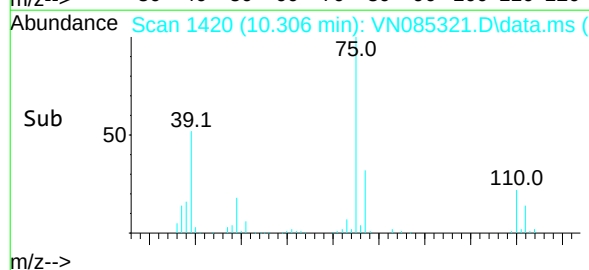
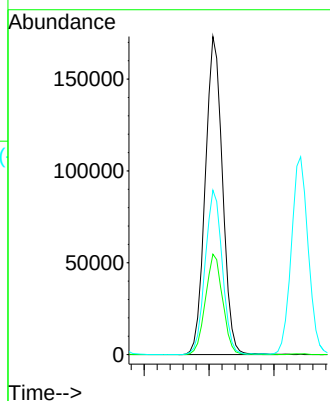
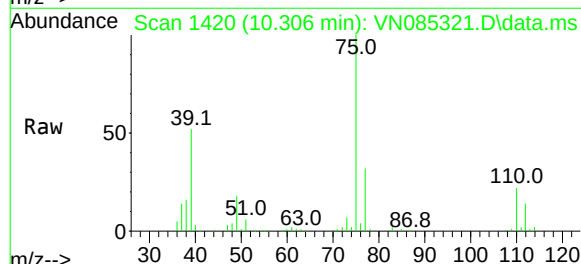
Tgt Ion: 75 Resp: 319172

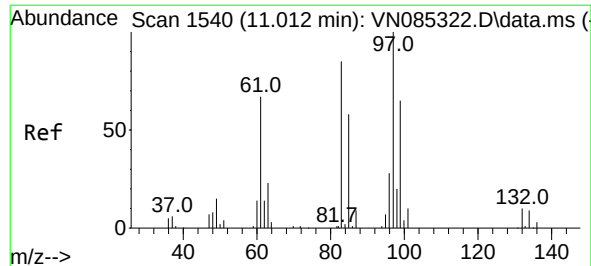
Ion Ratio Lower Upper

75 100

77 31.6 25.5 38.3

39 51.7 40.5 60.7





#55

1,1,2-Trichloroethane

Concen: 101.034 ug/l

RT: 11.012 min Scan# 15

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 172065

Ion Ratio Lower Upper

97 100

83 91.5 67.7 101.5

85 58.4 46.2 69.4

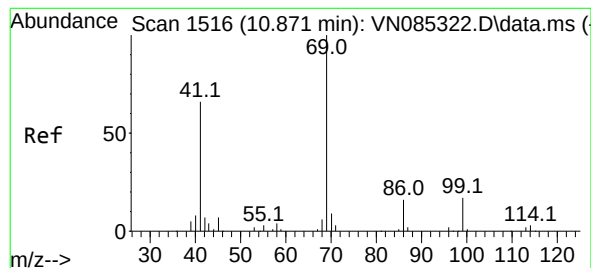
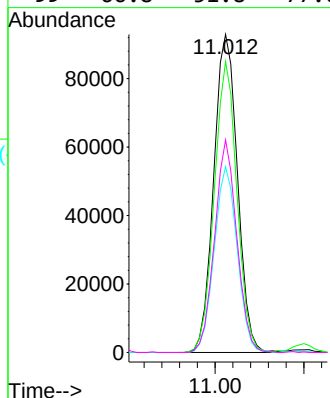
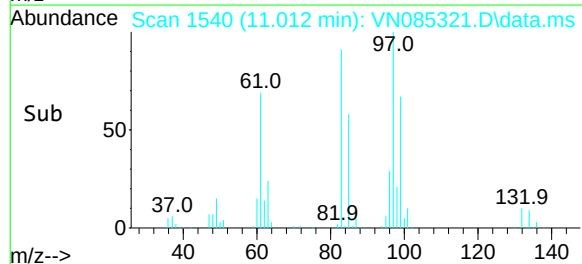
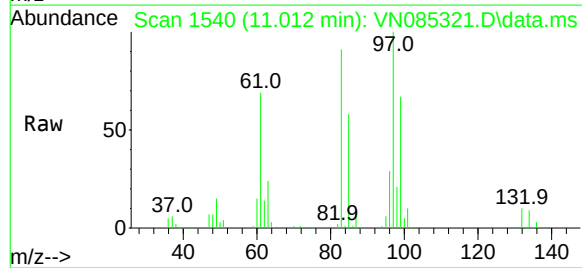
99 66.8 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#56

Ethyl methacrylate

Concen: 117.730 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

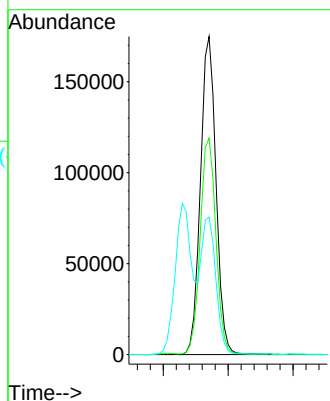
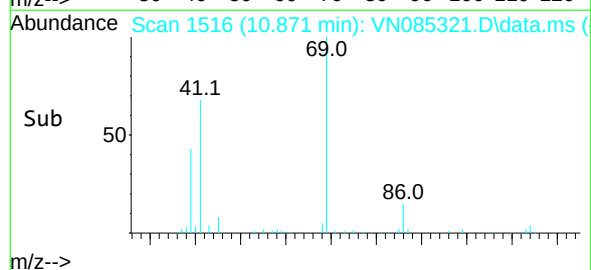
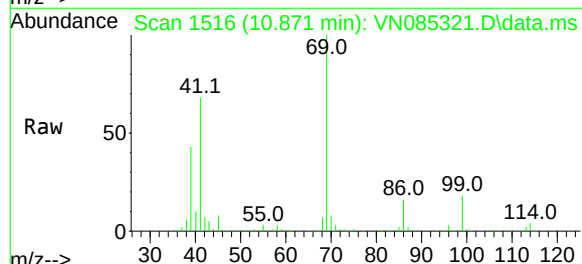
Tgt Ion: 69 Resp: 292009

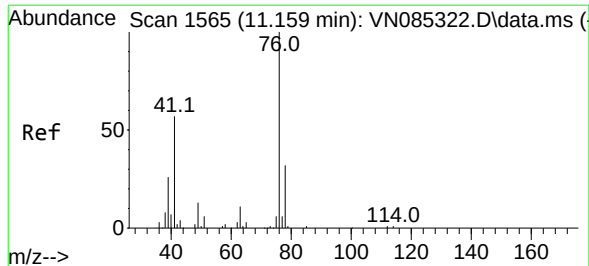
Ion Ratio Lower Upper

69 100

41 68.3 54.3 81.5

39 39.7 32.0 48.0





#57

1,3-Dichloropropane

Concen: 104.087 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 311119

Ion Ratio Lower Upper

76 100

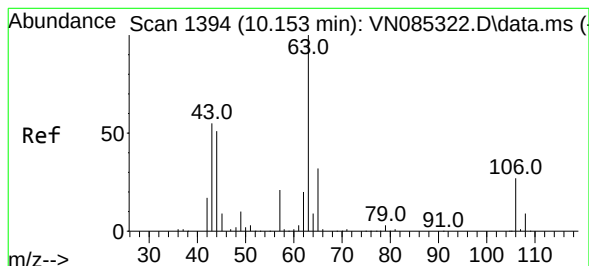
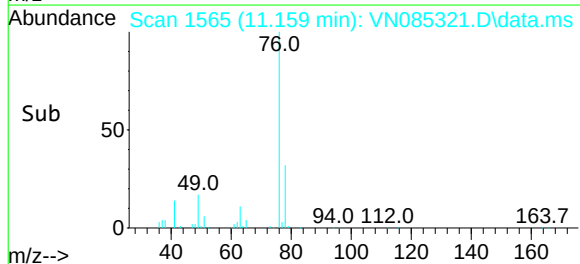
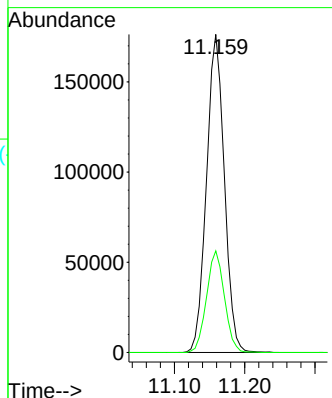
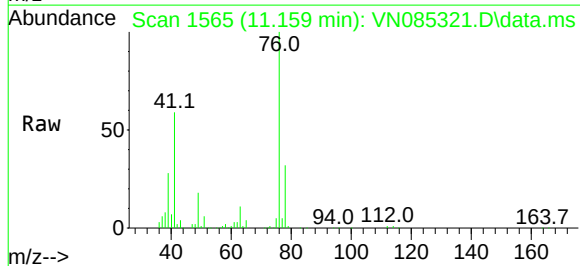
78 32.0 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#58

2-Chloroethyl Vinyl ether

Concen: 569.087 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VN085321.D

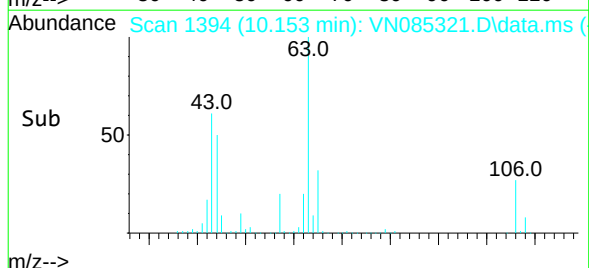
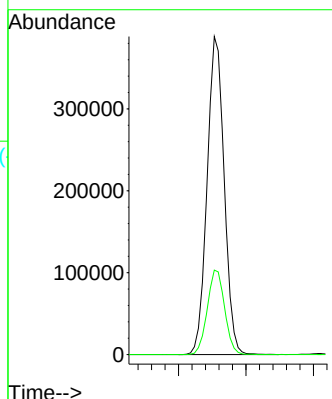
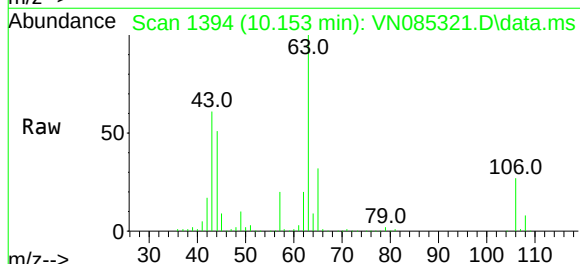
Acq: 27 Dec 2024 10:26

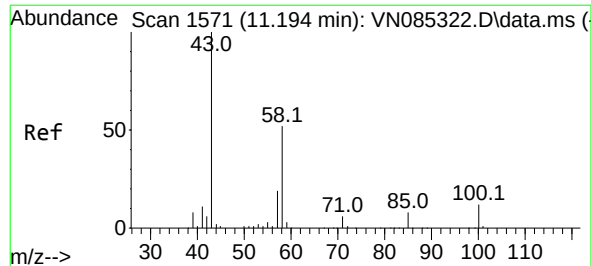
Tgt Ion: 63 Resp: 682916

Ion Ratio Lower Upper

63 100

106 26.9 22.1 33.1





#59

2-Hexanone

Concen: 536.829 ug/l

RT: 11.188 min Scan# 1571

Delta R.T. -0.006 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 858322

Ion Ratio Lower Upper

43 100

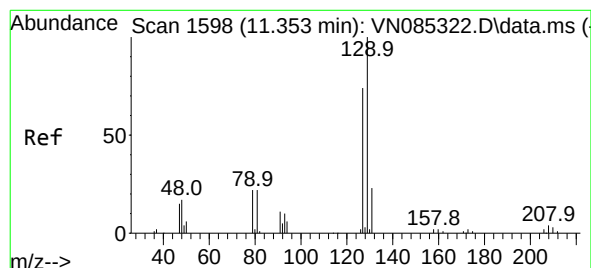
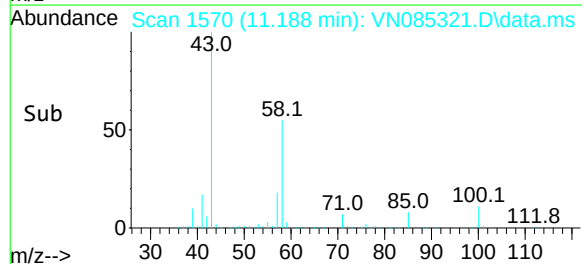
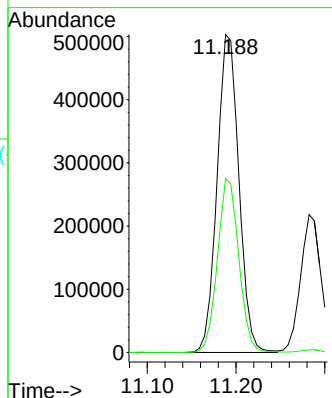
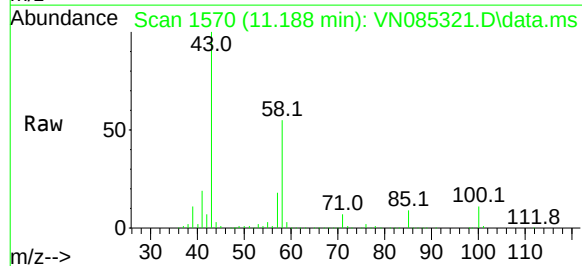
58 53.7 26.5 79.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#60

Dibromochloromethane

Concen: 110.251 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085321.D

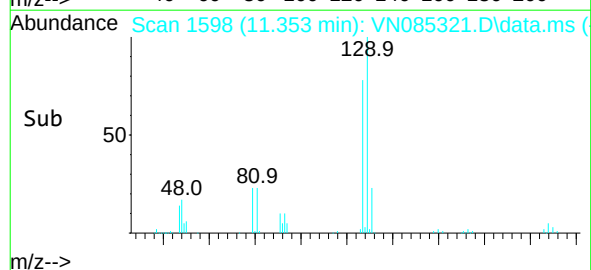
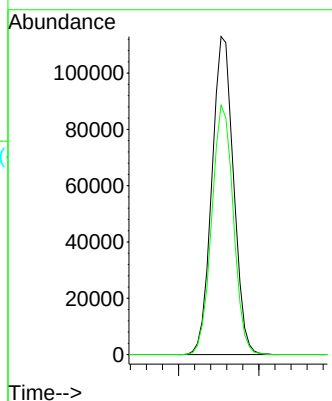
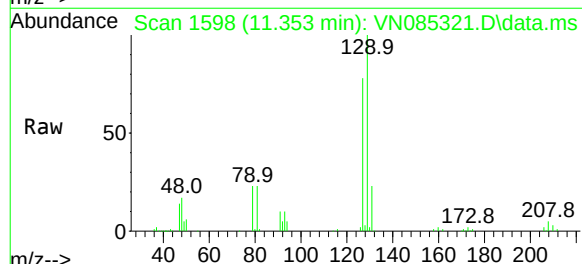
Acq: 27 Dec 2024 10:26

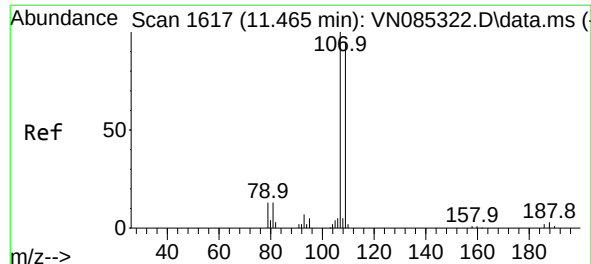
Tgt Ion:129 Resp: 211482

Ion Ratio Lower Upper

129 100

127 78.1 38.3 114.9





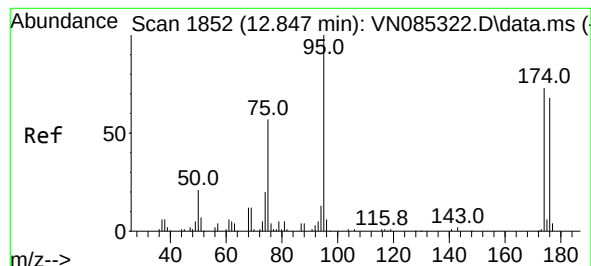
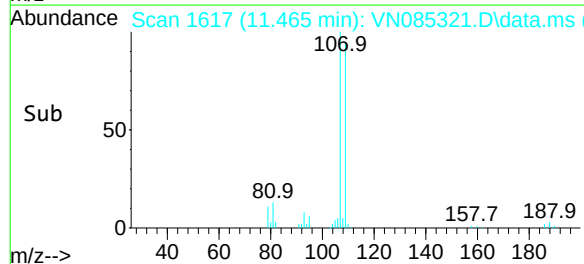
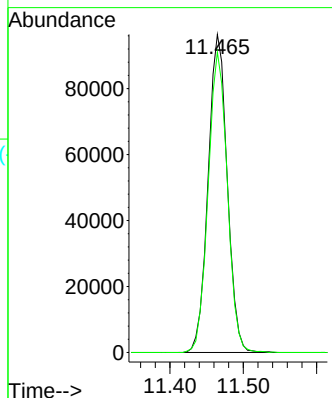
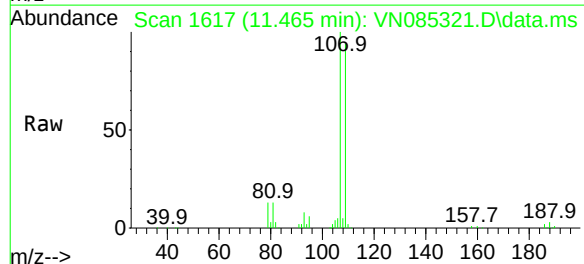
#61
1,2-Dibromoethane
Concen: 103.568 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion: 107 Resp: 174500
Ion Ratio Lower Upper
107 100
109 94.8 74.9 112.3

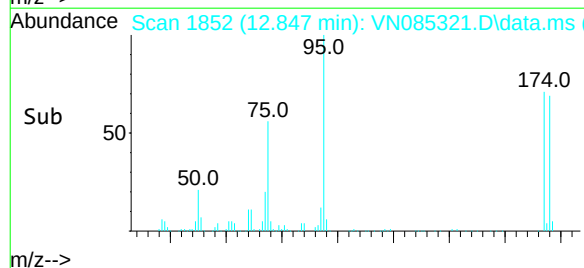
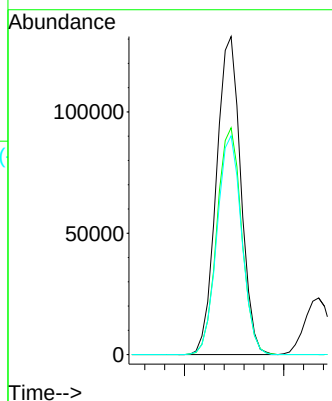
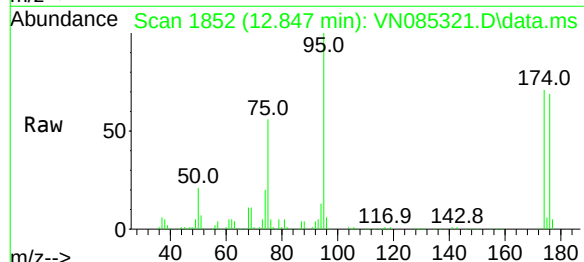
Manual Integrations
APPROVED

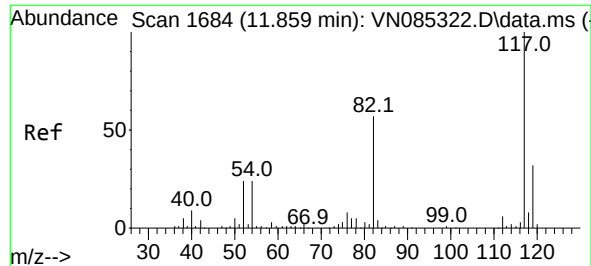
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#62
4-Bromofluorobenzene
Concen: 107.189 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085321.D
Acq: 27 Dec 2024 10:26

Tgt Ion: 95 Resp: 223549
Ion Ratio Lower Upper
95 100
174 72.3 0.0 143.2
176 69.5 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 1684

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:117 Resp: 239296

Ion Ratio Lower Upper

117 100

82 58.4 45.7 68.5

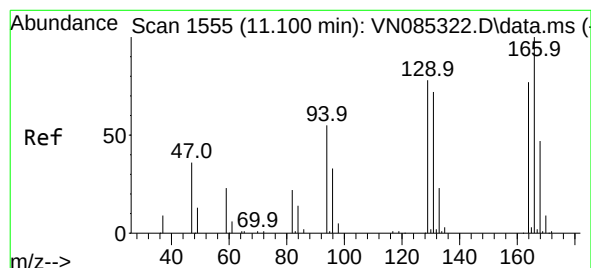
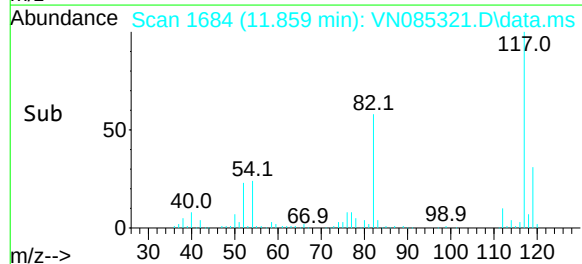
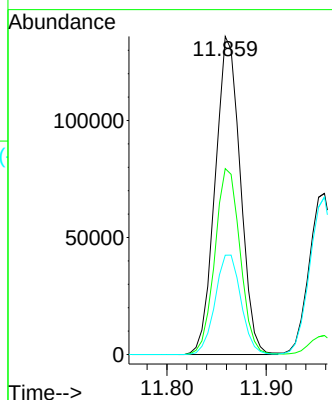
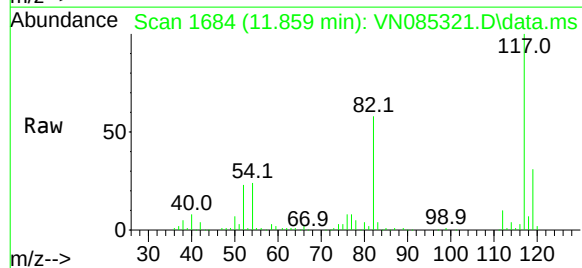
119 31.2 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#64

Tetrachloroethene

Concen: 101.335 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Tgt Ion:164 Resp: 153652

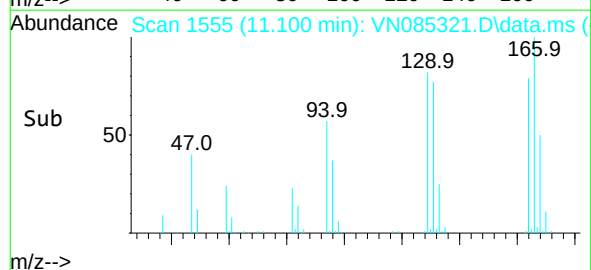
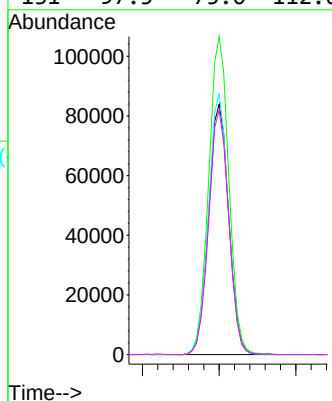
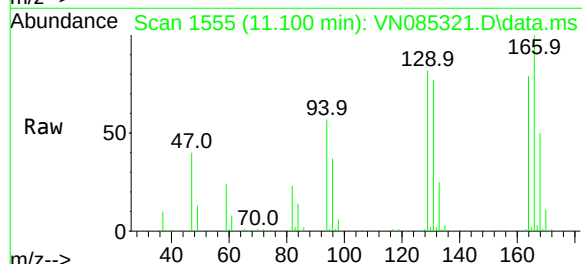
Ion Ratio Lower Upper

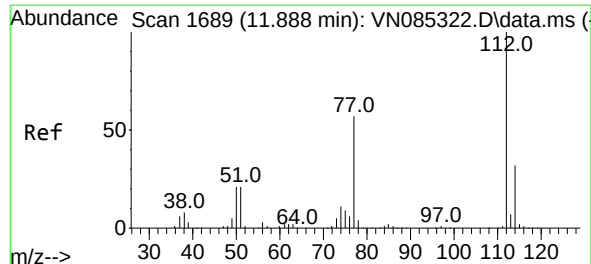
164 100

166 127.1 104.0 156.0

129 104.1 81.3 121.9

131 97.5 75.0 112.6





#65

Chlorobenzene

Concen: 99.951 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:112 Resp: 516861

Ion Ratio Lower Upper

112 100

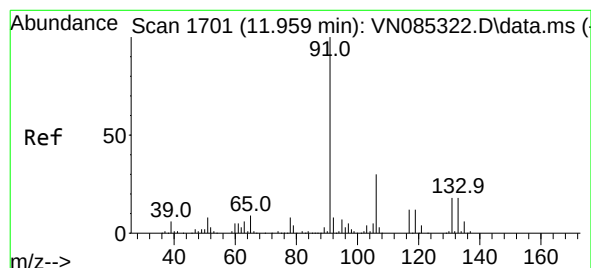
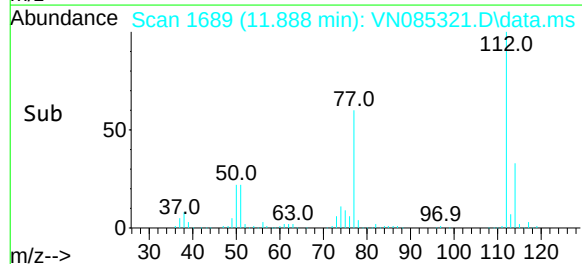
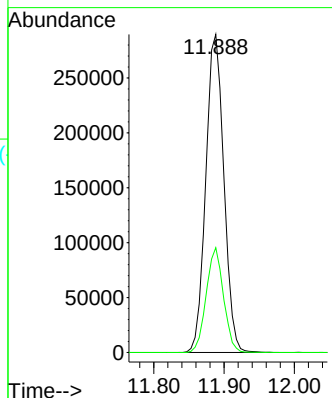
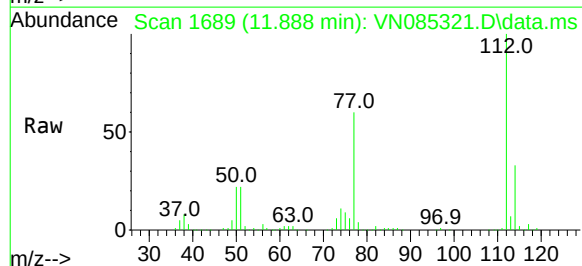
114 33.0 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 103.229 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

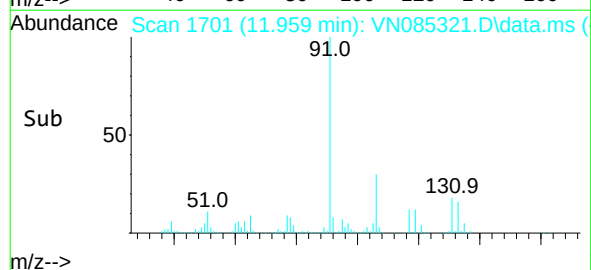
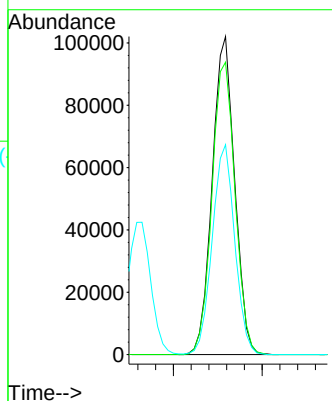
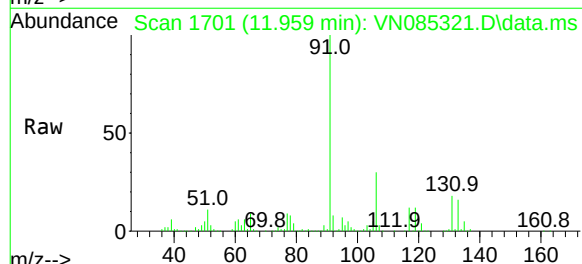
Tgt Ion:131 Resp: 179160

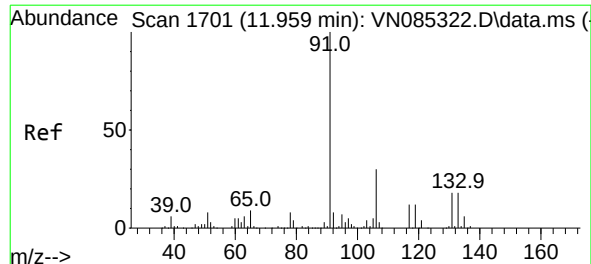
Ion Ratio Lower Upper

131 100

133 94.8 48.3 144.9

119 66.3 33.4 100.1





#67

Ethyl Benzene

Concen: 109.652 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 942995

Ion Ratio Lower Upper

91 100

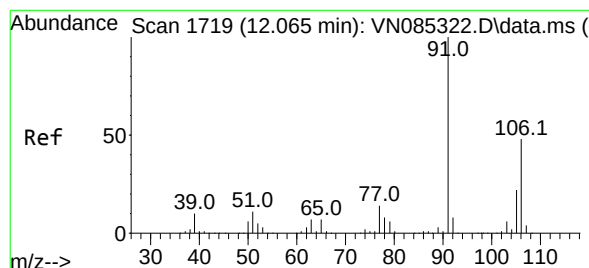
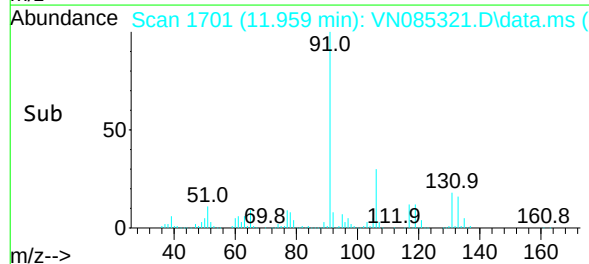
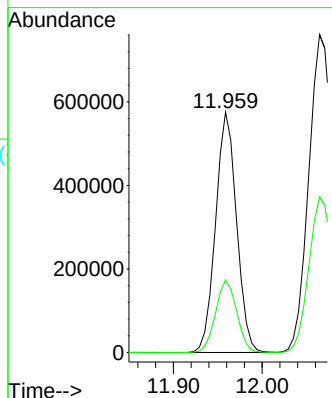
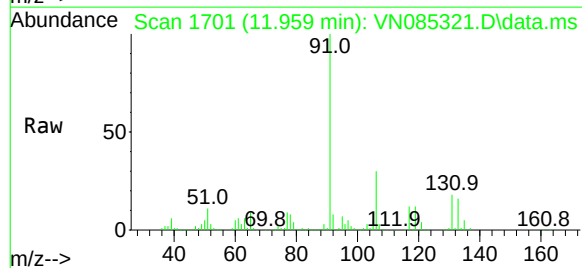
106 30.2 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#68

m/p-Xylenes

Concen: 226.828 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085321.D

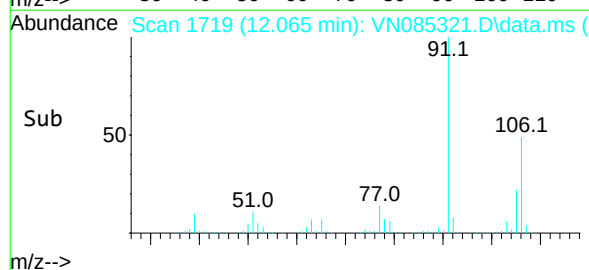
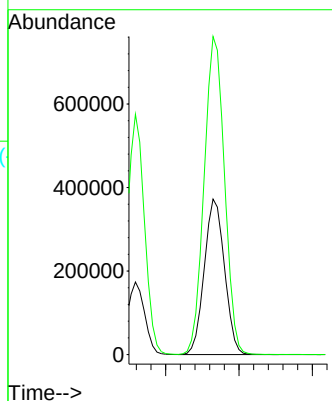
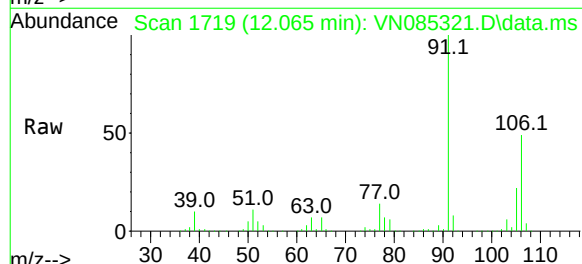
Acq: 27 Dec 2024 10:26

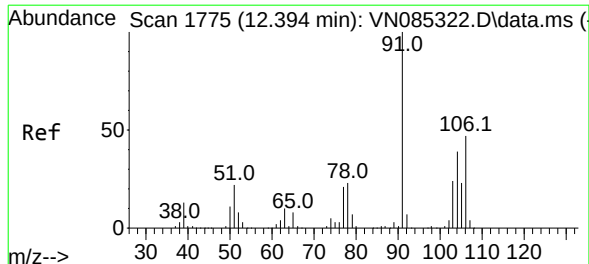
Tgt Ion:106 Resp: 713871

Ion Ratio Lower Upper

106 100

91 205.8 165.2 247.8





#69

o-Xylene

Concen: 111.332 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:106 Resp: 338950

Ion Ratio Lower Upper

106 100

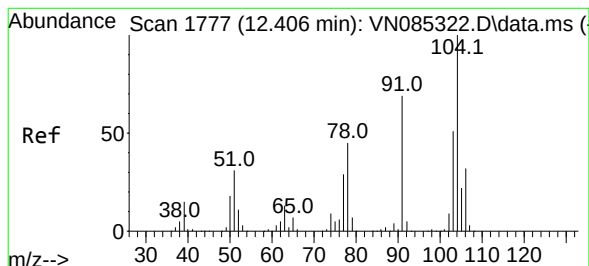
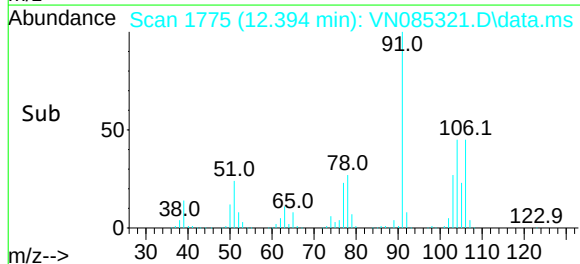
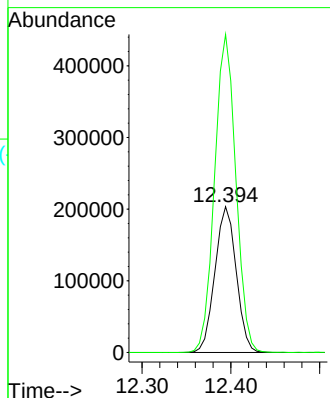
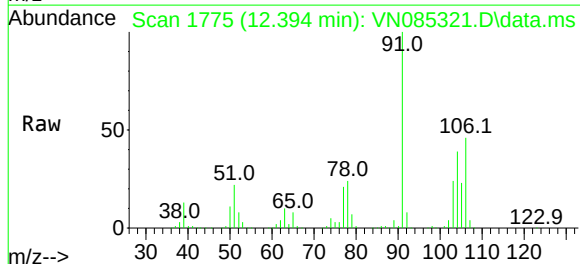
91 217.9 107.3 321.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#70

Styrene

Concen: 117.286 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

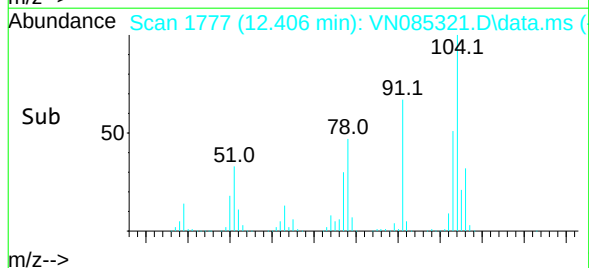
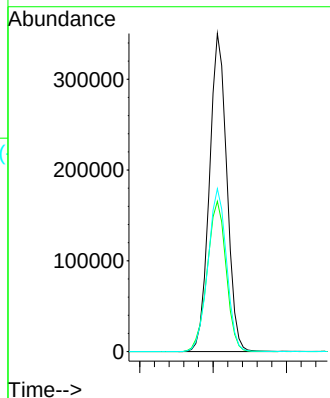
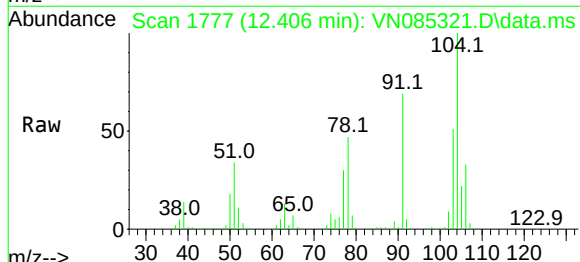
Tgt Ion:104 Resp: 578718

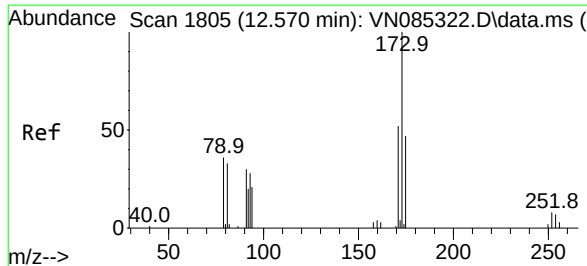
Ion Ratio Lower Upper

104 100

78 51.3 40.7 61.1

103 54.7 44.1 66.1





#71

Bromoform

Concen: 108.523 ug/l

RT: 12.570 min Scan# 1805

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:173 Resp: 130453

Ion Ratio Lower Upper

173 100

175 48.8 24.4 73.4

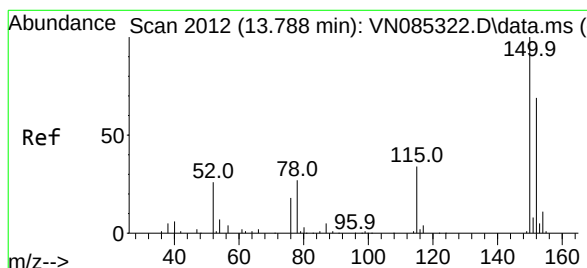
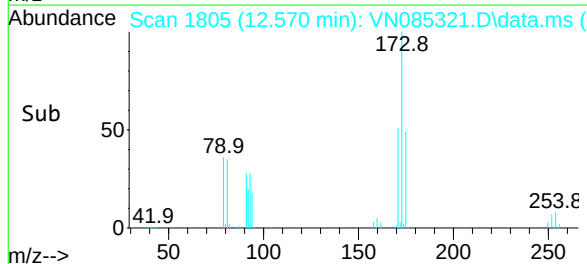
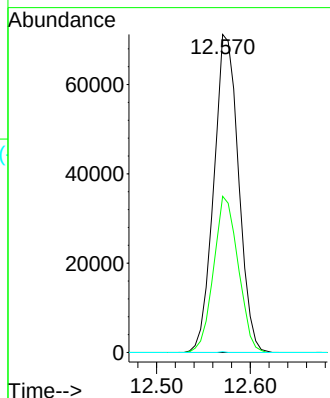
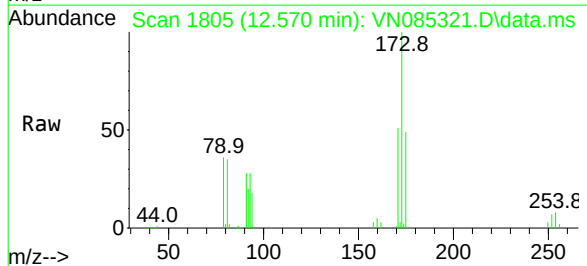
254 0.1 0.0 0.0#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

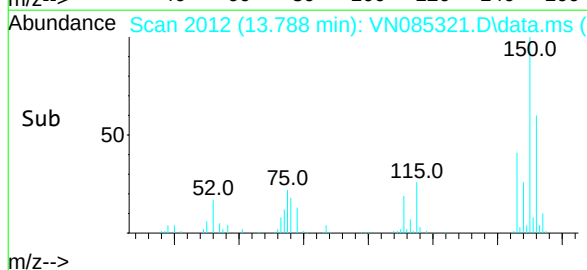
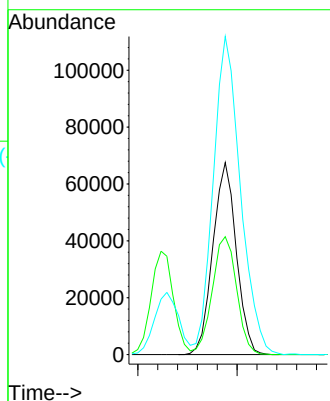
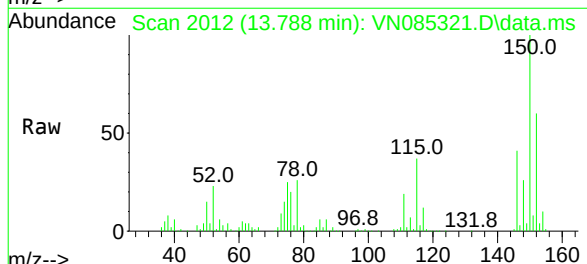
Tgt Ion:152 Resp: 110806

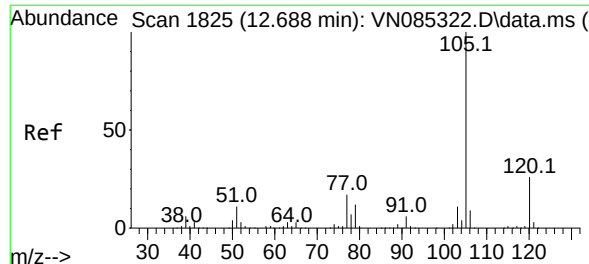
Ion Ratio Lower Upper

152 100

115 63.8 30.4 91.3

150 192.1 0.0 345.0





#73

Isopropylbenzene

Concen: 108.621 ug/l

RT: 12.688 min Scan# 1825

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 105 Resp: 865504

Ion Ratio Lower Upper

105 100

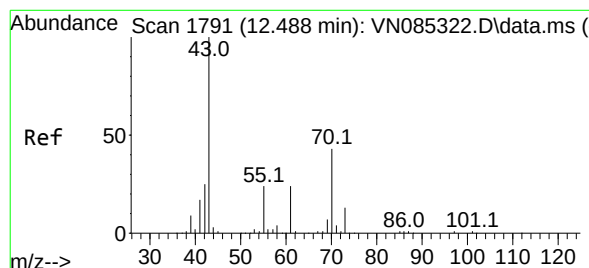
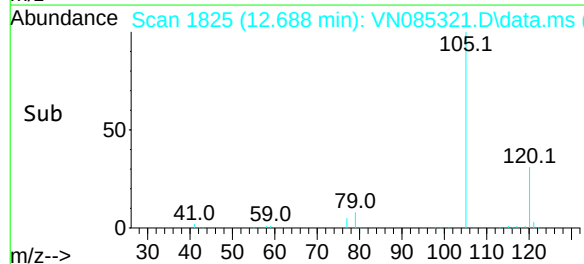
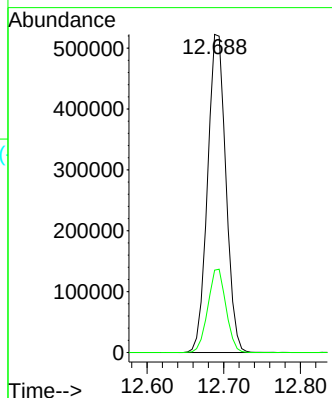
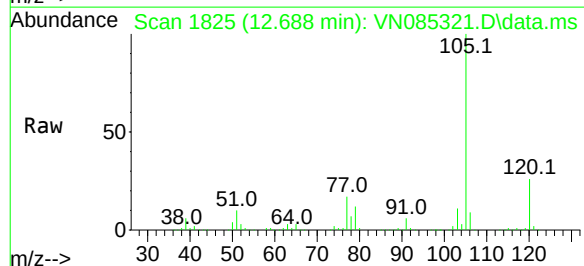
120 25.9 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#74

N-ethyl acetate

Concen: 109.477 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Tgt Ion: 43 Resp: 373392

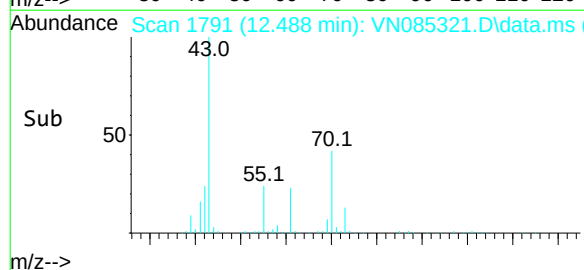
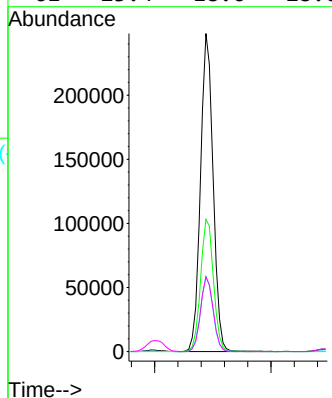
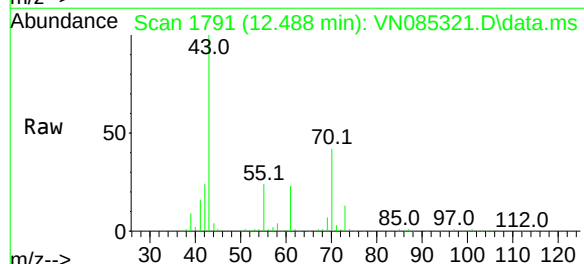
Ion Ratio Lower Upper

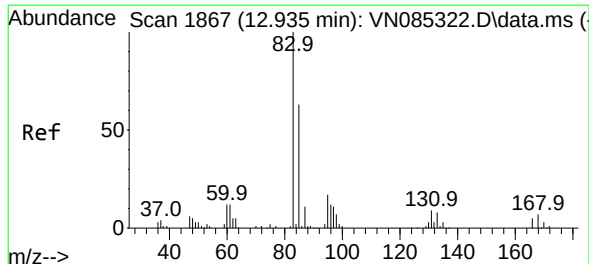
43 100

70 42.5 33.4 50.0

55 23.6 19.2 28.8

61 23.4 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 94.731 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

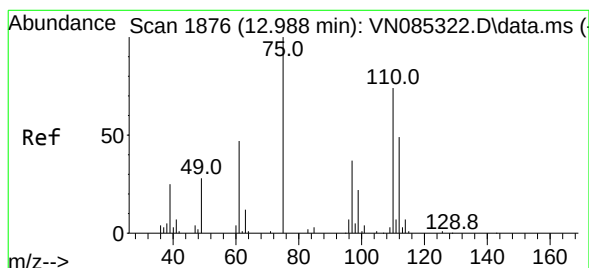
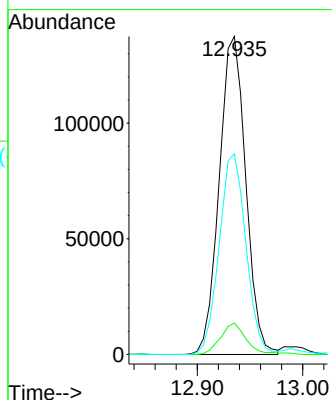
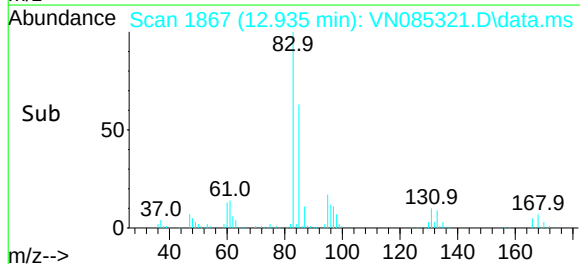
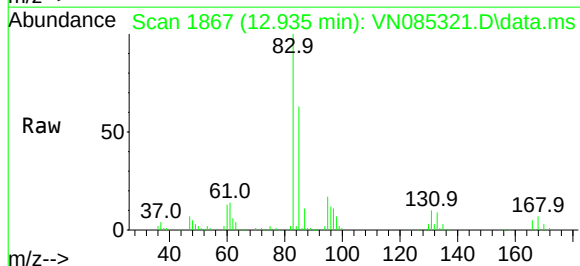
VSTDIC100

Tgt Ion:	83	Resp:	240405
Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.8	14.4
85	63.6	32.6	98.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#76

1,2,3-Trichloropropane

Concen: 85.937 ug/l m

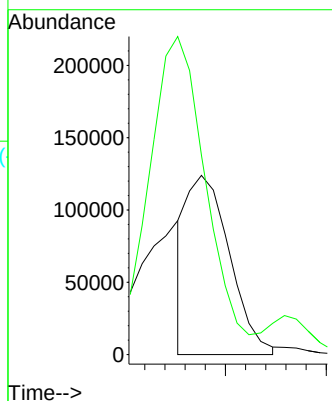
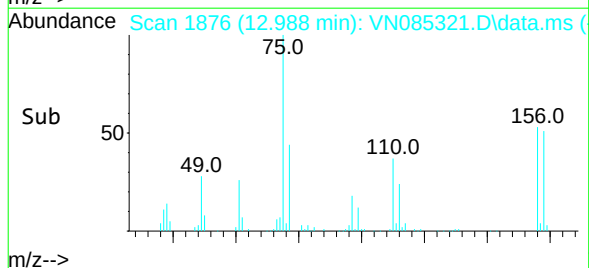
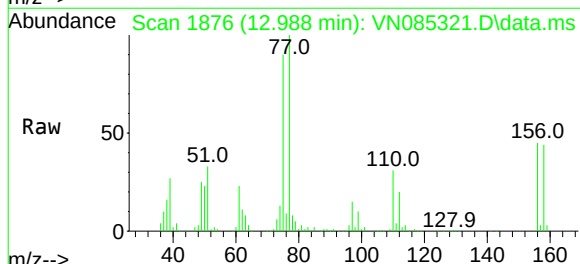
RT: 12.988 min Scan# 1876

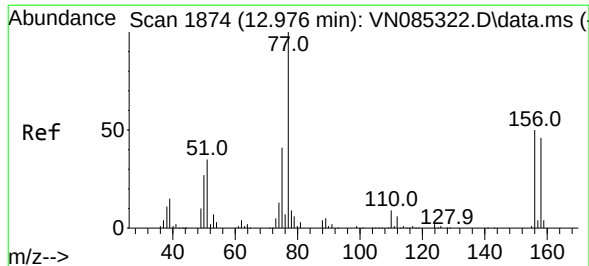
Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Tgt Ion:	75	Resp:	182933
Ion	Ratio	Lower	Upper
75	100		
77	237.9	98.1	294.3





#77

Bromobenzene

Concen: 97.157 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:156 Resp: 191802

Ion Ratio Lower Upper

156 100

77 226.9 114.0 342.0

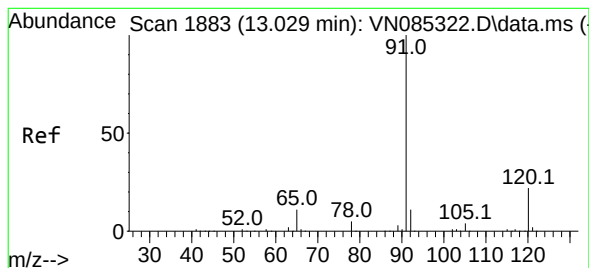
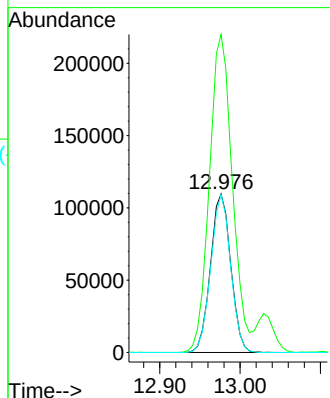
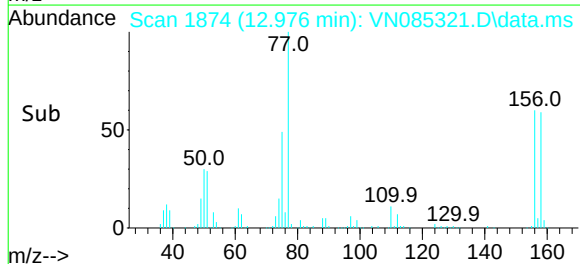
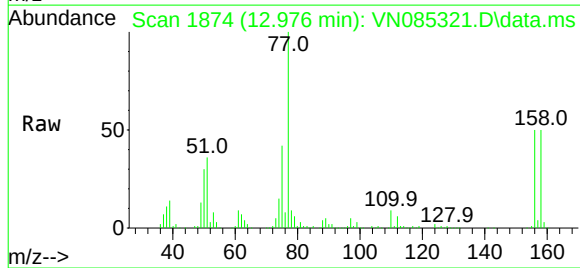
158 97.4 47.6 142.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#78

n-propylbenzene

Concen: 110.557 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. 0.000 min

Lab File: VN085321.D

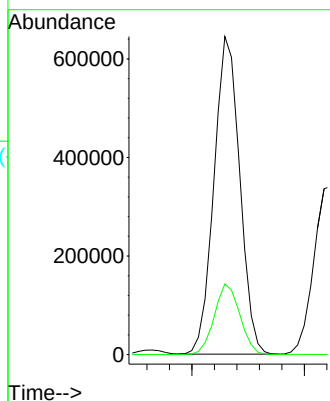
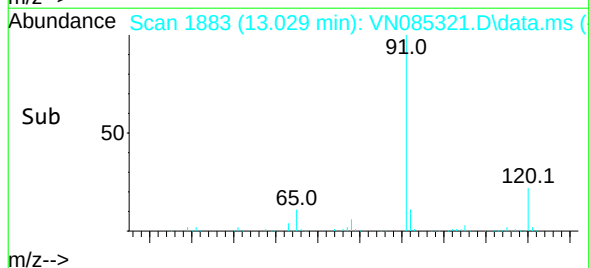
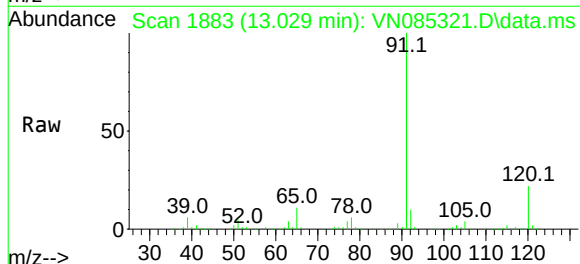
Acq: 27 Dec 2024 10:26

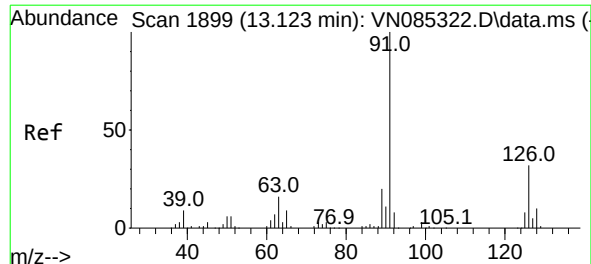
Tgt Ion: 91 Resp: 1026870

Ion Ratio Lower Upper

91 100

120 22.0 10.9 32.9





#79

2-Chlorotoluene

Concen: 103.099 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 602668

Ion Ratio Lower Upper

91 100

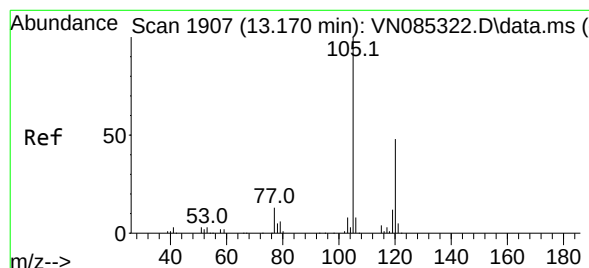
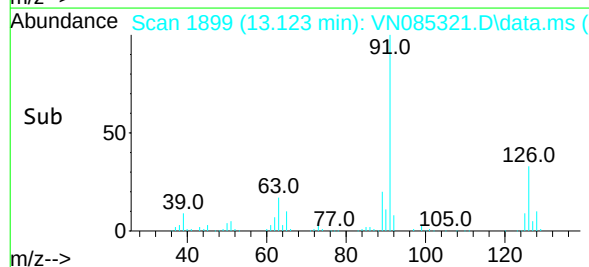
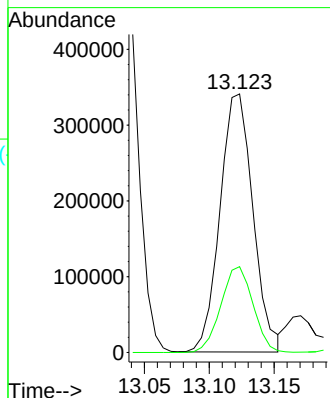
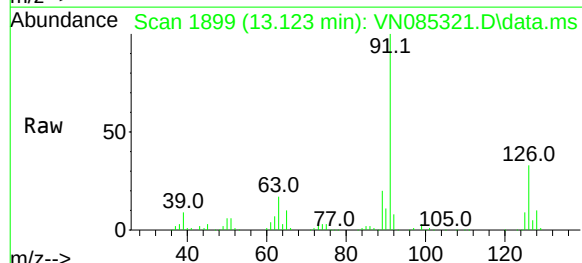
126 32.4 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#80

1,3,5-Trimethylbenzene

Concen: 109.682 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085321.D

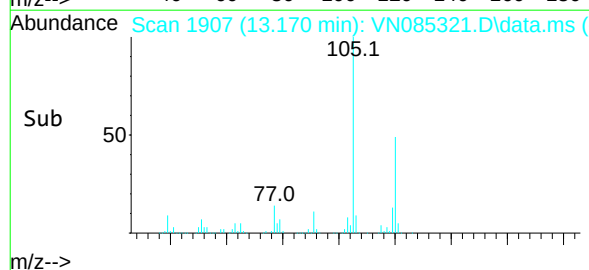
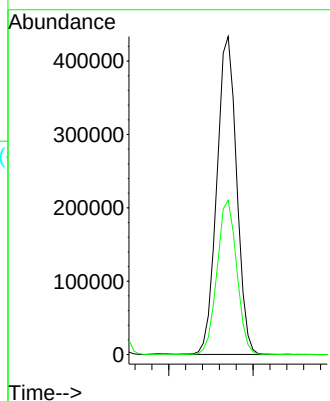
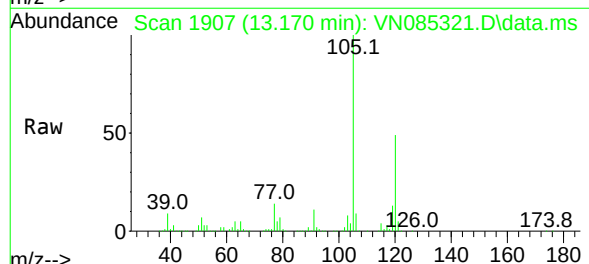
Acq: 27 Dec 2024 10:26

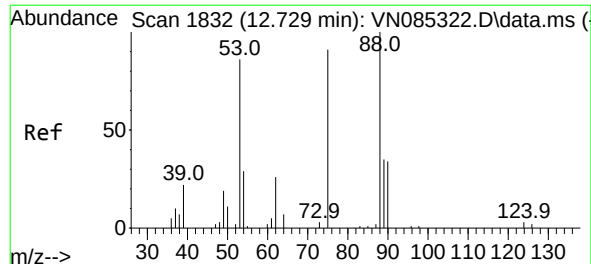
Tgt Ion:105 Resp: 706917

Ion Ratio Lower Upper

105 100

120 48.4 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 106.602 ug/l

RT: 12.735 min Scan# 1832

Delta R.T. 0.006 min

Lab File: VN085321.D

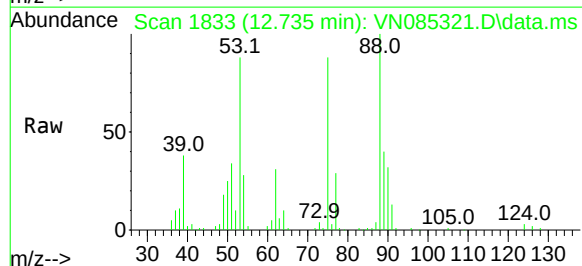
Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

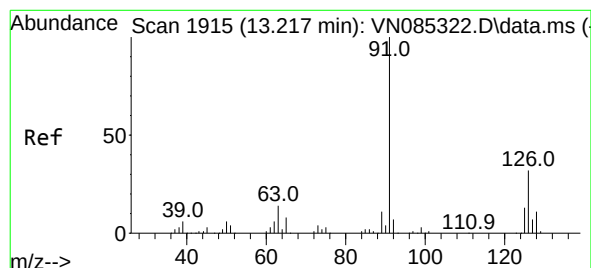
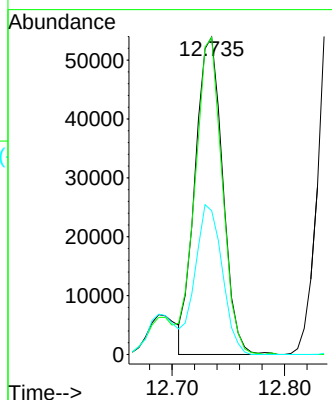
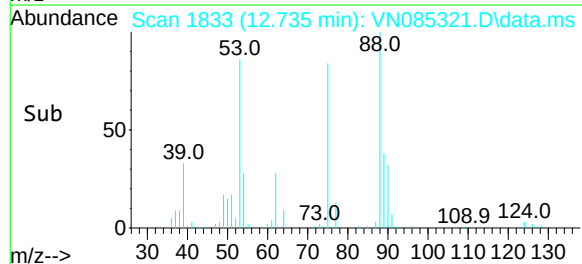
VSTDIC100



Tgt Ion:	75	Resp:	91679
Ion	Ratio	Lower	Upper
75	100		
53	99.1	80.0	120.0
89	46.8	35.8	53.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#82

4-Chlorotoluene

Concen: 103.257 ug/l

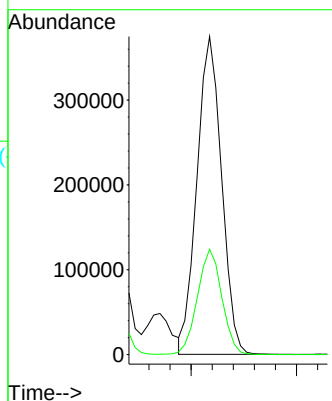
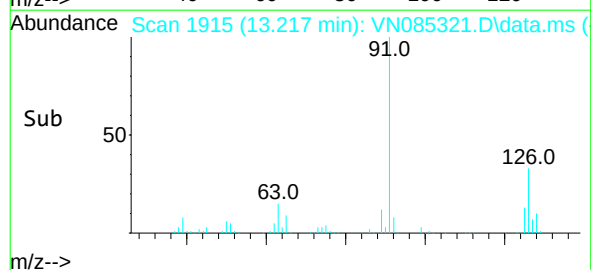
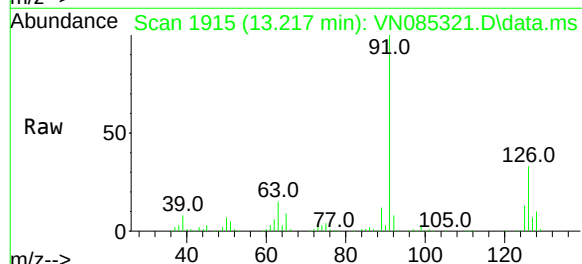
RT: 13.217 min Scan# 1915

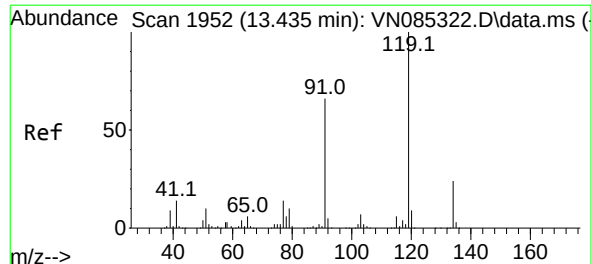
Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Tgt Ion:	91	Resp:	607903
Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.4





#83

tert-Butylbenzene

Concen: 109.059 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:119 Resp: 608882

Ion Ratio Lower Upper

119 100

91 66.4 33.6 100.8

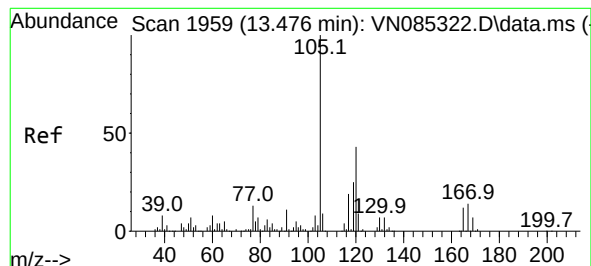
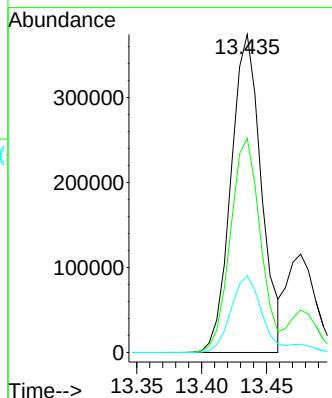
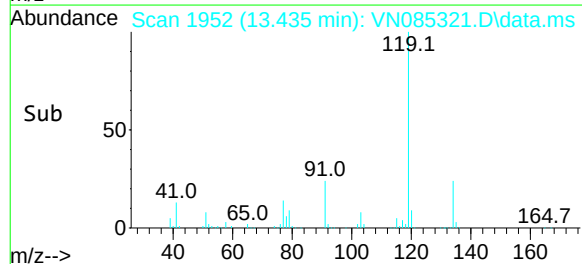
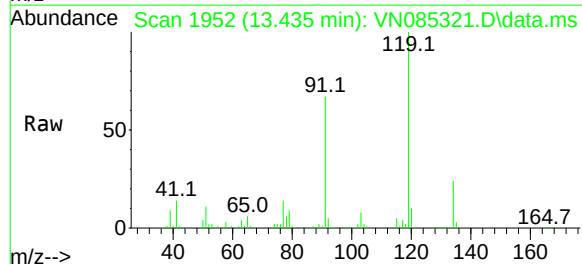
134 24.3 13.3 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#84

1,2,4-Trimethylbenzene

Concen: 112.160 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN085321.D

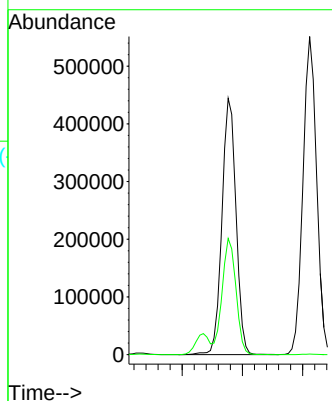
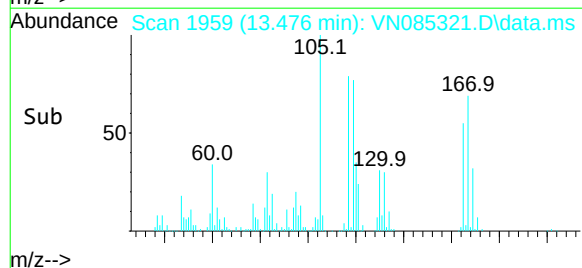
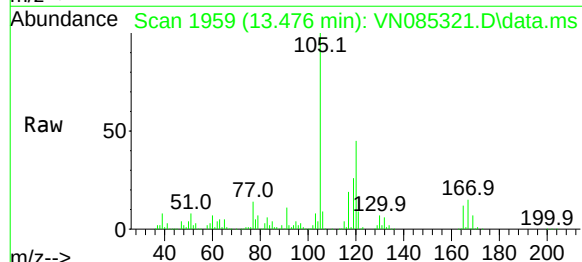
Acq: 27 Dec 2024 10:26

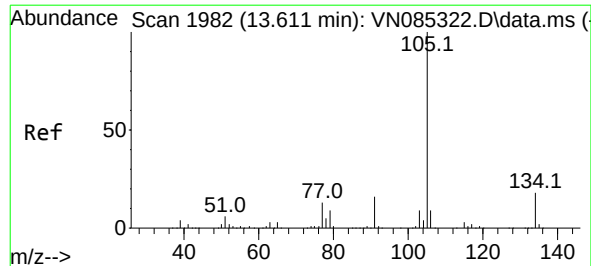
Tgt Ion:105 Resp: 719806

Ion Ratio Lower Upper

105 100

120 44.8 21.7 65.1





#85

sec-Butylbenzene

Concen: 112.004 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 867992

Ion Ratio Lower Upper

105 100

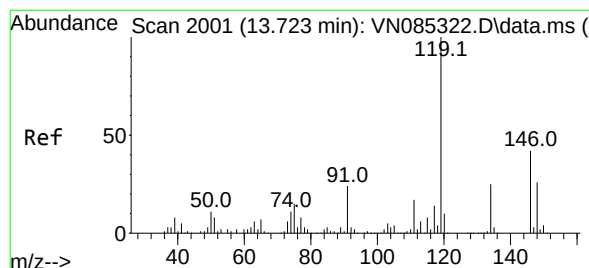
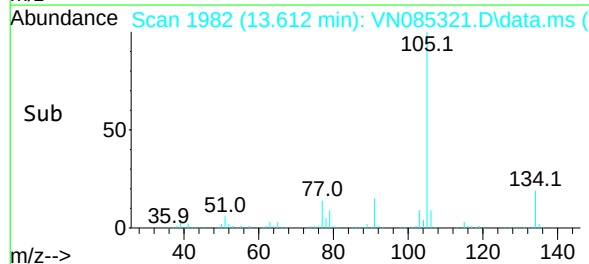
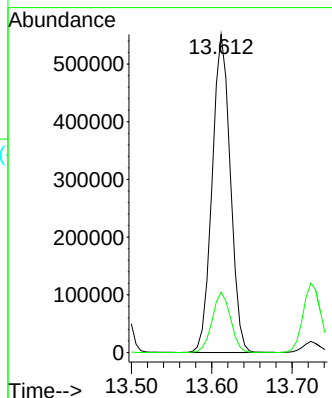
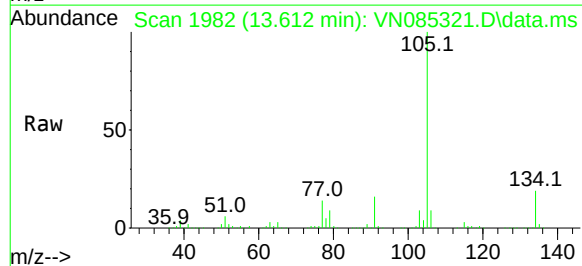
134 19.1 9.4 28.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#86

p-Isopropyltoluene

Concen: 100.116 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

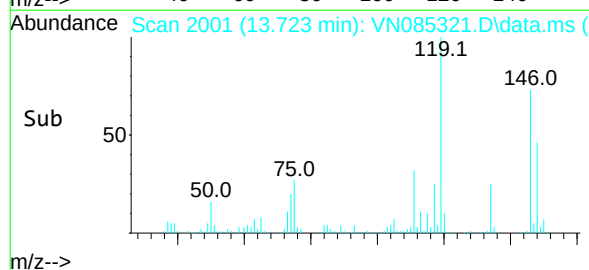
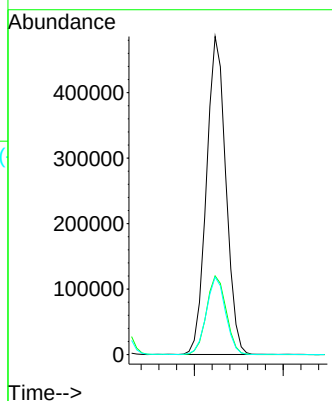
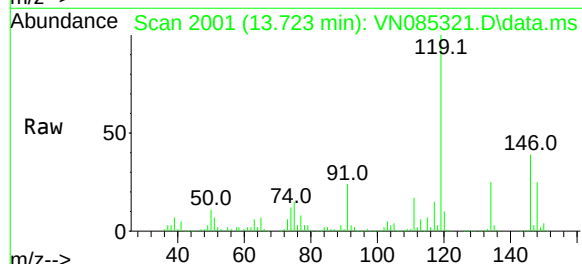
Tgt Ion:119 Resp: 736735

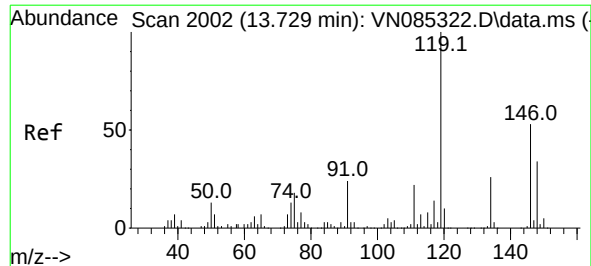
Ion Ratio Lower Upper

119 100

134 25.1 12.5 37.5

91 24.0 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 101.845 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 364480

Ion Ratio Lower Upper

146 100

111 43.0 21.3 63.9

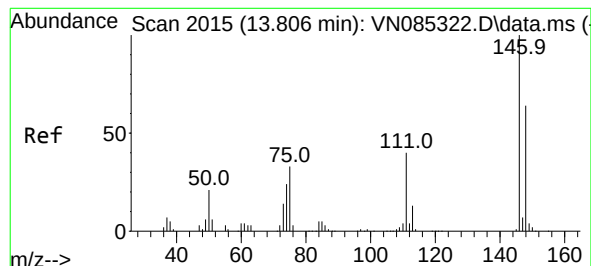
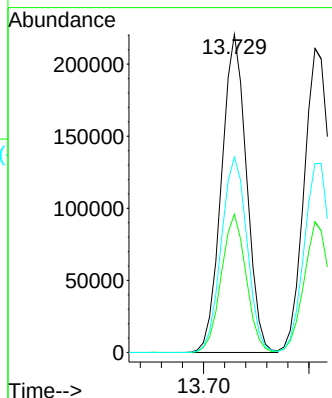
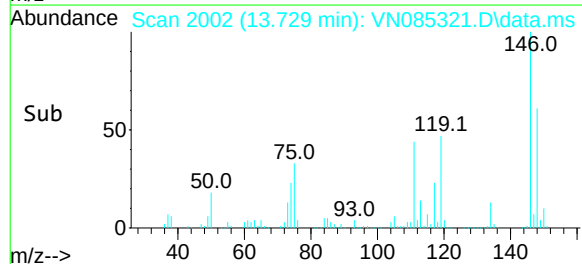
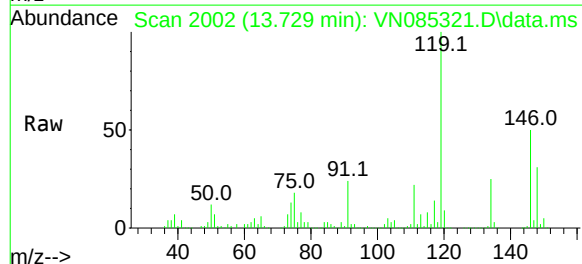
148 63.2 31.5 94.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#88

1,4-Dichlorobenzene

Concen: 98.438 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

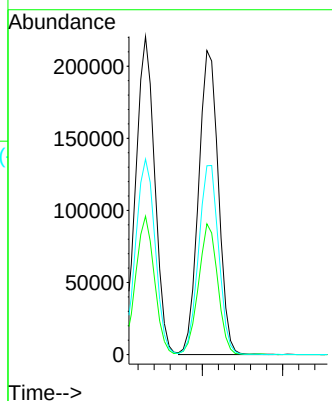
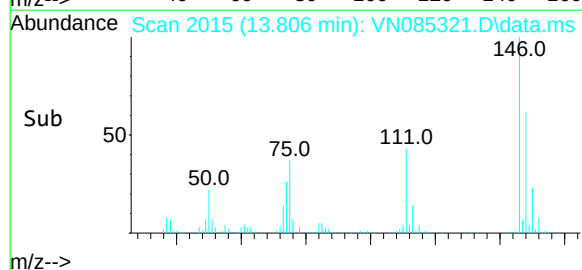
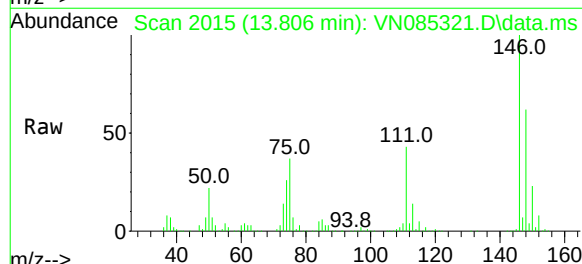
Tgt Ion:146 Resp: 361871

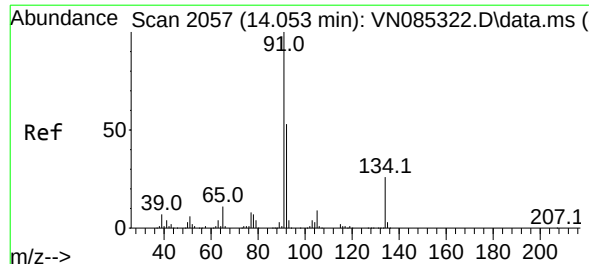
Ion Ratio Lower Upper

146 100

111 41.6 20.8 62.5

148 63.0 31.7 95.1





#89

n-Butylbenzene

Concen: 113.544 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

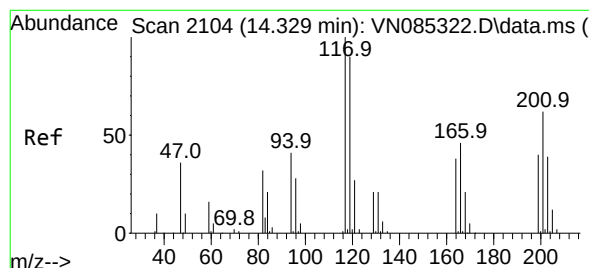
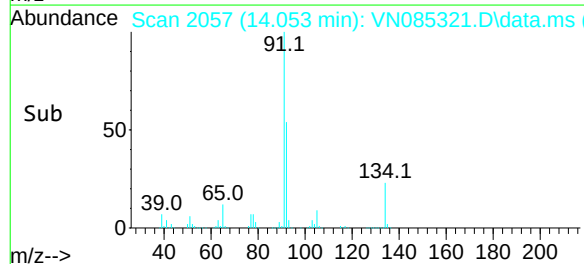
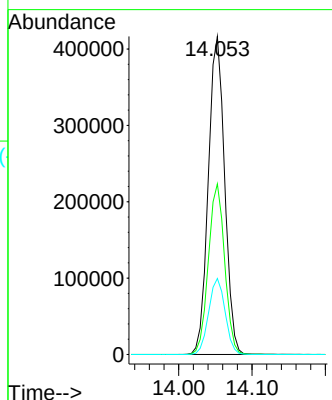
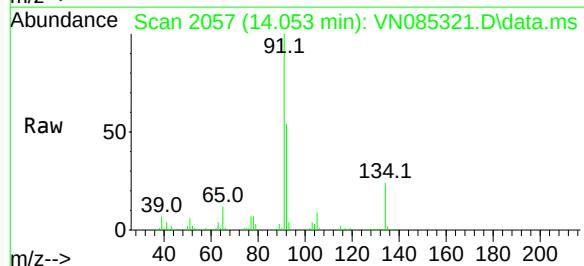
ClientSampleId :

VSTDICC100

Tgt Ion:	91	Resp:	644347
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.0	78.0
134	24.1	12.1	36.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#90

Hexachloroethane

Concen: 107.835 ug/l

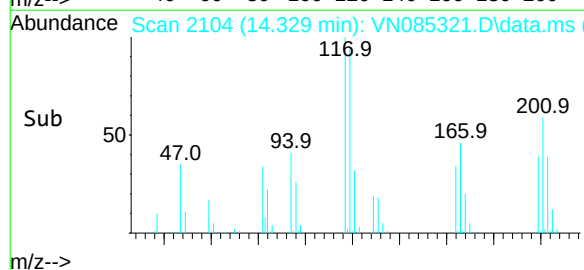
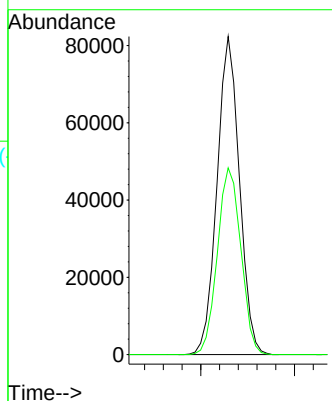
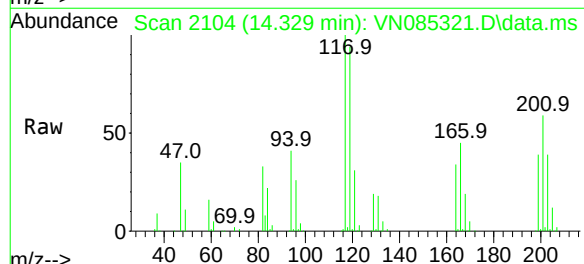
RT: 14.329 min Scan# 2104

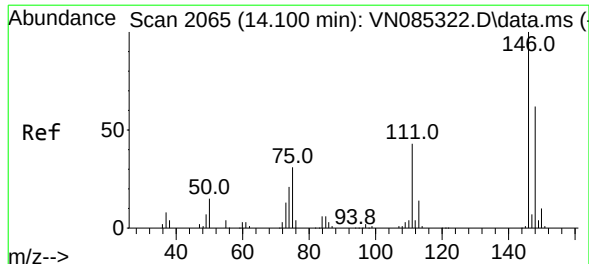
Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Tgt Ion:	117	Resp:	136982
Ion	Ratio	Lower	Upper
117	100		
201	61.4	30.7	92.1





#91

1,2-Dichlorobenzene

Concen: 99.377 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

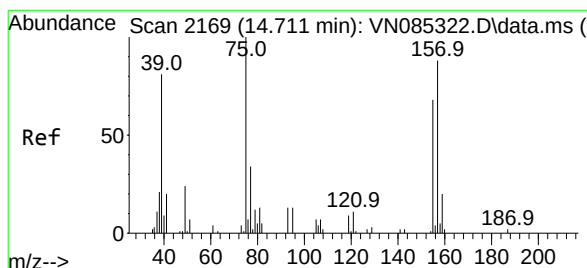
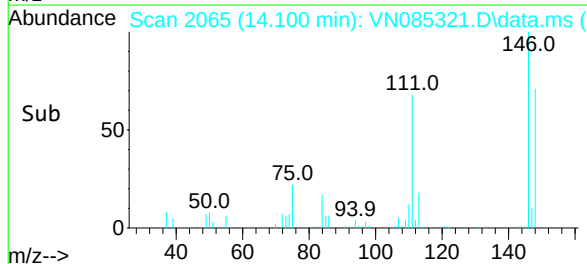
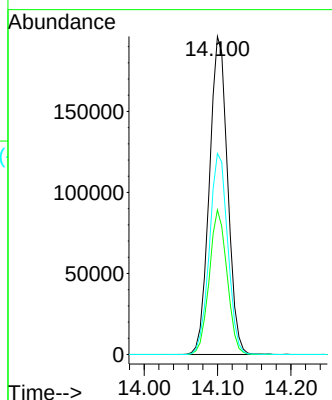
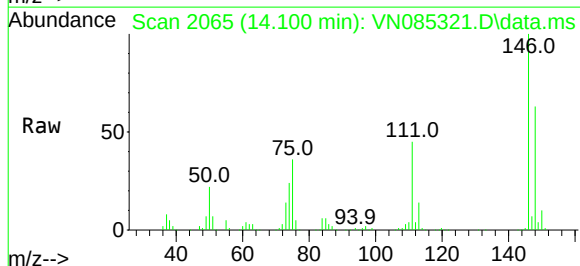
VSTDICC100

Tgt Ion:	146	Resp:	338794
Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.8	65.3
148	63.5	31.4	94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 95.745 ug/l

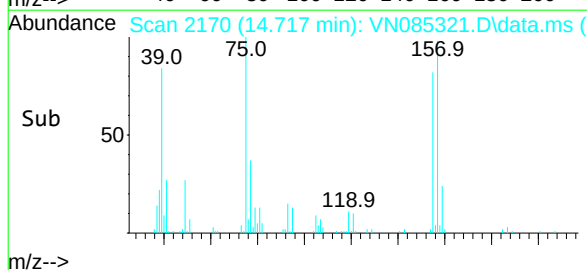
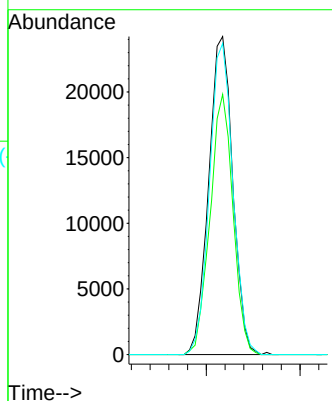
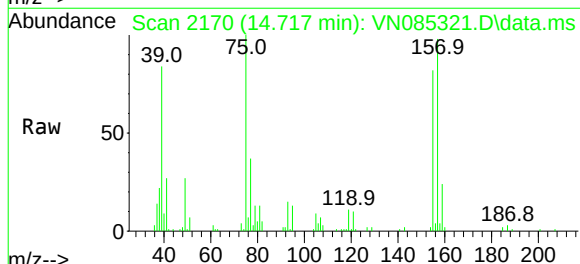
RT: 14.717 min Scan# 2170

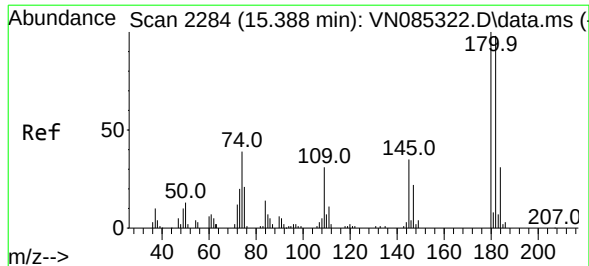
Delta R.T. 0.006 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Tgt Ion:	75	Resp:	43244
Ion	Ratio	Lower	Upper
75	100		
155	77.8	35.6	106.9
157	95.2	47.0	141.0





#93

1,2,4-Trichlorobenzene

Concen: 104.895 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085321.D

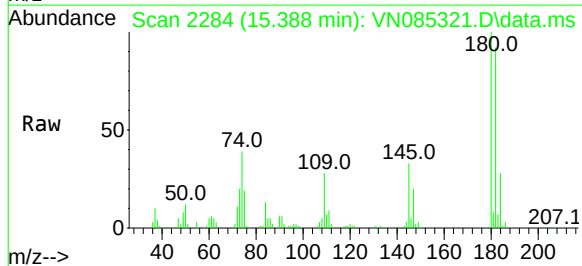
Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

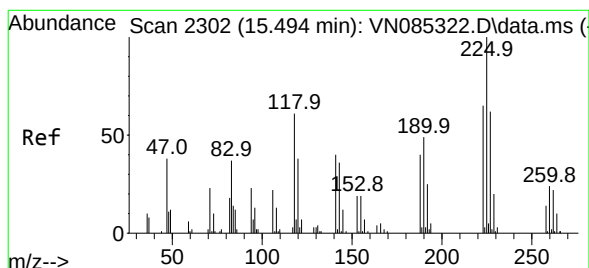
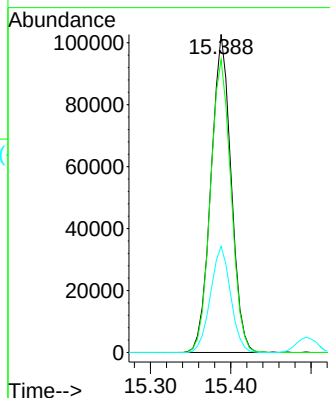
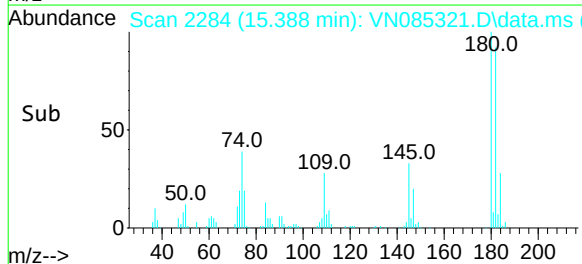


Tgt Ion:	180	Resp:	178476
Ion Ratio	Lower	Upper	
180	100		
182	94.1	47.2	141.6
145	33.4	16.6	49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#94

Hexachlorobutadiene

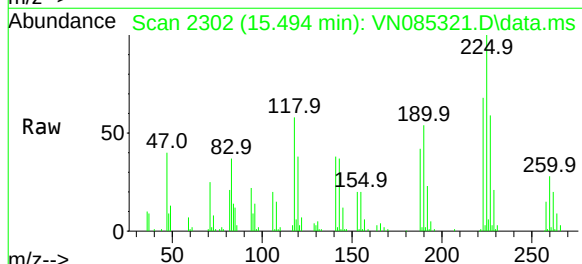
Concen: 90.312 ug/l

RT: 15.494 min Scan# 2302

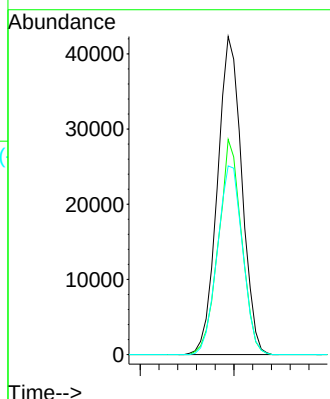
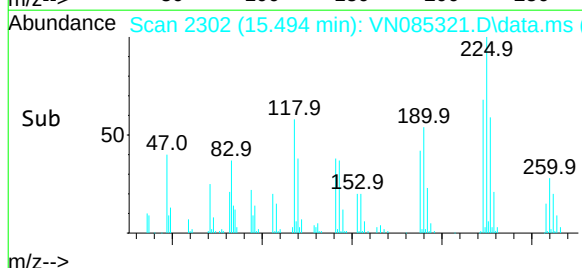
Delta R.T. 0.000 min

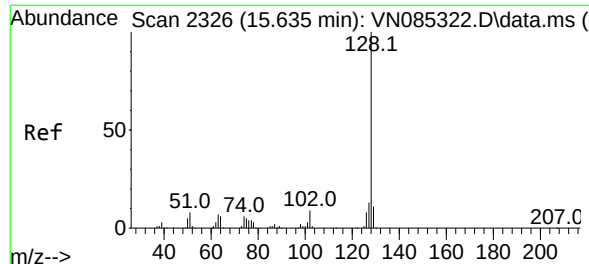
Lab File: VN085321.D

Acq: 27 Dec 2024 10:26



Tgt Ion:	225	Resp:	76348
Ion Ratio	Lower	Upper	
225	100		
223	64.2	31.6	94.7
227	61.5	30.3	91.0





#95

Naphthalene

Concen: 98.477 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:128 Resp: 568171

Ion Ratio Lower Upper

128 100

127 13.2 10.6 16.0

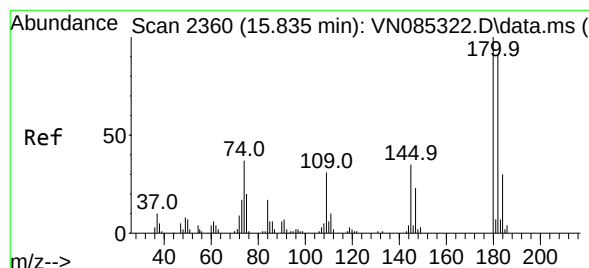
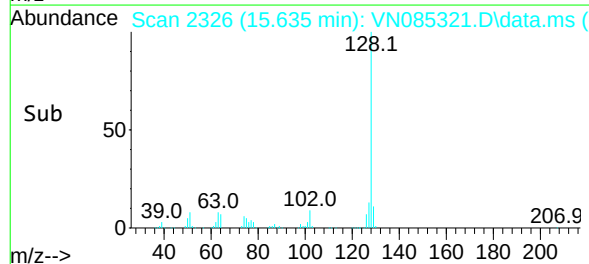
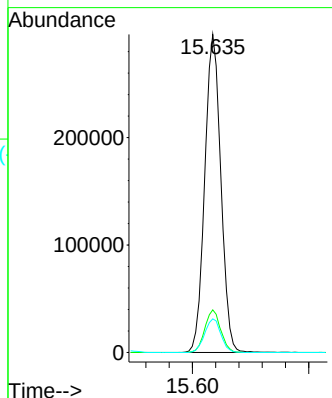
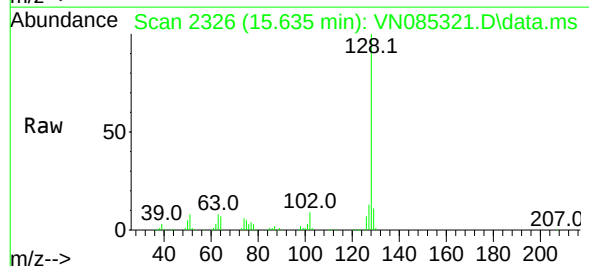
129 10.7 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#96

1,2,3-Trichlorobenzene

Concen: 99.403 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085321.D

Acq: 27 Dec 2024 10:26

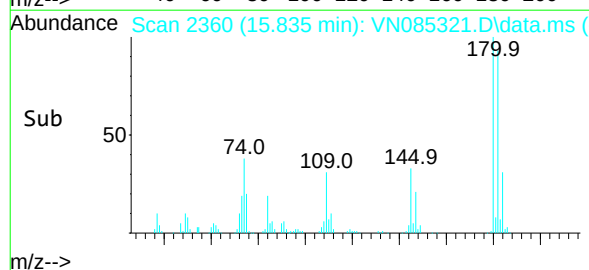
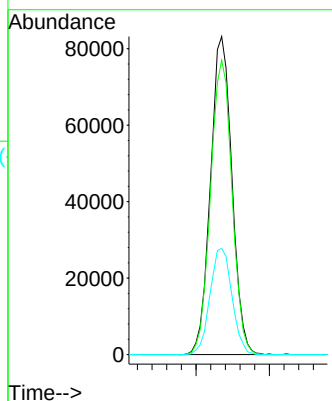
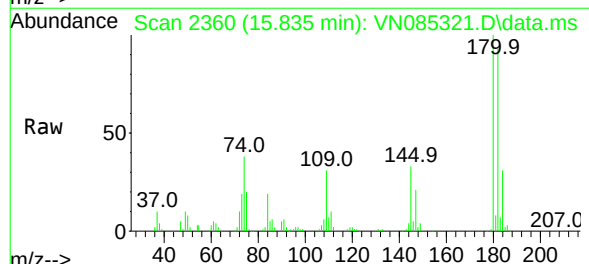
Tgt Ion:180 Resp: 168986

Ion Ratio Lower Upper

180 100

182 92.7 46.8 140.4

145 34.1 17.2 51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085322.D
 Acq On : 27 Dec 2024 10:50
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	155532	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	278404	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	240680	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	113462	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	111594	50.305	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.620%
35) Dibromofluoromethane	8.159	113	88275	50.825	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.660%
50) Toluene-d8	10.559	98	323100	50.695	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.380%
62) 4-Bromofluorobenzene	12.847	95	111548	52.700	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	108746	51.698	ug/l	100
3) Chloromethane	2.359	50	106659	45.115	ug/l	100
4) Vinyl Chloride	2.512	62	117884	47.149	ug/l	100
5) Bromomethane	2.959	94	74886	45.796	ug/l	100
6) Chloroethane	3.124	64	74955	47.272	ug/l	100
7) Trichlorofluoromethane	3.500	101	158878	48.340	ug/l	100
8) Diethyl Ether	3.959	74	55553	51.048	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	89878	48.064	ug/l	100
10) Methyl Iodide	4.594	142	111290	51.423	ug/l	100
11) Tert butyl alcohol	5.512	59	66517	239.459	ug/l	100
12) 1,1-Dichloroethene	4.342	96	83691	48.422	ug/l	100
13) Acrolein	4.177	56	101450	234.253	ug/l	100
14) Allyl chloride	5.018	41	133004	48.082	ug/l	100
15) Acrylonitrile	5.712	53	213836	244.585	ug/l	100
16) Acetone	4.418	43	173280	237.550	ug/l	100
17) Carbon Disulfide	4.712	76	238824	45.421	ug/l	100
18) Methyl Acetate	5.018	43	108199	48.449	ug/l	100
19) Methyl tert-butyl Ether	5.788	73	290643	51.737	ug/l	100
20) Methylene Chloride	5.271	84	95357	48.601	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	87901	48.686	ug/l	100
22) Diisopropyl ether	6.665	45	302742	50.788	ug/l	100
23) Vinyl Acetate	6.594	43	1110592	259.168	ug/l	100
24) 1,1-Dichloroethane	6.565	63	173999	48.458	ug/l	100
25) 2-Butanone	7.477	43	285403	252.198	ug/l	100
26) 2,2-Dichloropropane	7.482	77	160118	50.897	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	107476	50.718	ug/l	100
28) Bromochloromethane	7.806	49	82793	49.616	ug/l #	100
29) Tetrahydrofuran	7.830	42	185555	254.548	ug/l	100
30) Chloroform	7.959	83	176294	47.991	ug/l	100
31) Cyclohexane	8.253	56	152319	46.455	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	158921	48.441	ug/l	100
36) 1,1-Dichloropropene	8.365	75	128454	50.513	ug/l	100
37) Ethyl Acetate	7.553	43	115871	45.842	ug/l	100
38) Carbon Tetrachloride	8.359	117	139705	50.401	ug/l	100
39) Methylcyclohexane	9.594	83	140293	53.172	ug/l	100
40) Benzene	8.600	78	383405	49.867	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085322.D
 Acq On : 27 Dec 2024 10:50
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	65714	50.764	ug/l	100
42) 1,2-Dichloroethane	8.665	62	131673	47.766	ug/l	100
43) Isopropyl Acetate	8.682	43	207309	49.811	ug/l	100
44) Trichloroethene	9.347	130	86607	47.578	ug/l	100
45) 1,2-Dichloropropane	9.612	63	94480	48.407	ug/l	100
46) Dibromomethane	9.706	93	66895	49.281	ug/l	100
47) Bromodichloromethane	9.882	83	140475	49.791	ug/l	100
48) Methyl methacrylate	9.676	41	95506	52.885	ug/l	100
49) 1,4-Dioxane	9.688	88	29967	1099.805	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	604417	258.422	ug/l	100
52) Toluene	10.623	92	235625	51.469	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	147289	53.087	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	154618	51.536	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	85262	49.329	ug/l	100
56) Ethyl methacrylate	10.871	69	139960	55.599	ug/l	100
57) 1,3-Dichloropropane	11.159	76	154391	50.893	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	336991	276.695	ug/l	100
59) 2-Hexanone	11.194	43	428174	263.862	ug/l	100
60) Dibromochloromethane	11.353	129	103179	52.999	ug/l	100
61) 1,2-Dibromoethane	11.465	107	87157	50.969	ug/l	100
64) Tetrachloroethene	11.100	164	75140	49.270	ug/l	100
65) Chlorobenzene	11.888	112	252514	48.550	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	87333	50.030	ug/l	100
67) Ethyl Benzene	11.959	91	451752	52.228	ug/l	100
68) m/p-Xylenes	12.065	106	341420	107.860	ug/l	100
69) o-Xylene	12.394	106	165724	54.121	ug/l	100
70) Styrene	12.406	104	276012	55.616	ug/l	100
71) Bromoform	12.570	173	63268	52.330	ug/l #	100
73) Isopropylbenzene	12.688	105	423362	51.888	ug/l	100
74) N-ethyl acetate	12.488	43	183943	52.669	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	120681	46.441	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	94097m	43.170	ug/l	
77) Bromobenzene	12.976	156	95126	47.058	ug/l	100
78) n-propylbenzene	13.029	91	498392	52.403	ug/l	100
79) 2-Chlorotoluene	13.123	91	299107	49.970	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	347857	52.709	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	45749m	51.950	ug/l	
82) 4-Chlorotoluene	13.217	91	299712	49.717	ug/l	100
83) tert-Butylbenzene	13.435	119	294653	51.541	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	354037	53.875	ug/l	100
85) sec-Butylbenzene	13.611	105	424353	53.476	ug/l	100
86) p-Isopropyltoluene	13.723	119	349527	49.276	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	179301	48.928	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	177873	47.253	ug/l	100
89) n-Butylbenzene	14.053	91	309010	53.178	ug/l	100
90) Hexachloroethane	14.329	117	67607	51.976	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	171657	49.173	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.711	75	22952	49.627	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	86363	49.570	ug/l	100
94) Hexachlorobutadiene	15.494	225	38529	44.509	ug/l	100
95) Naphthalene	15.635	128	286887	48.560	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	84633	48.618	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085322.D
Acq On : 27 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration

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

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

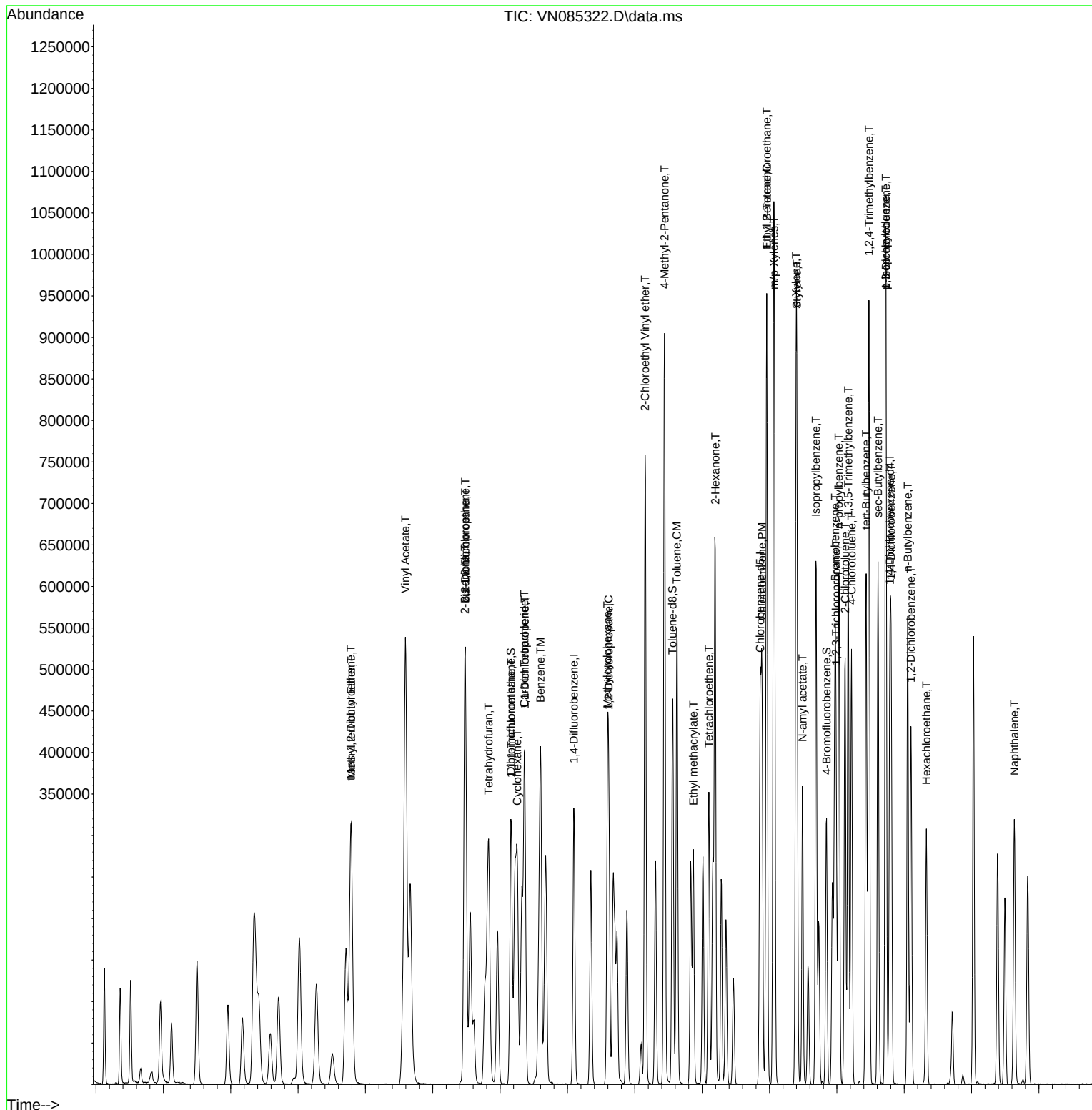
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085322.D
Acq On : 27 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

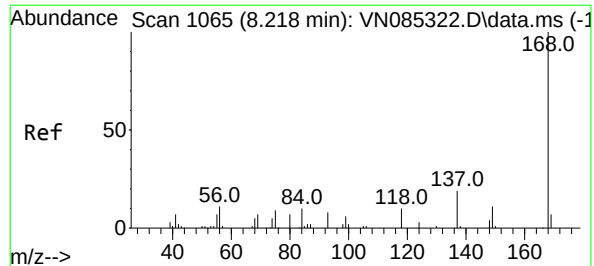
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration





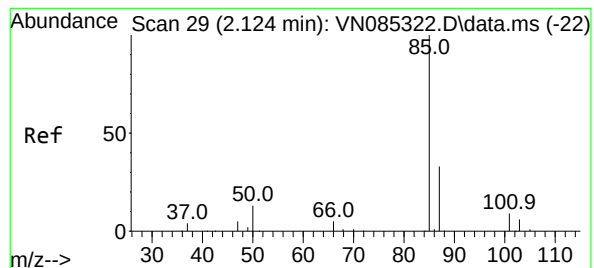
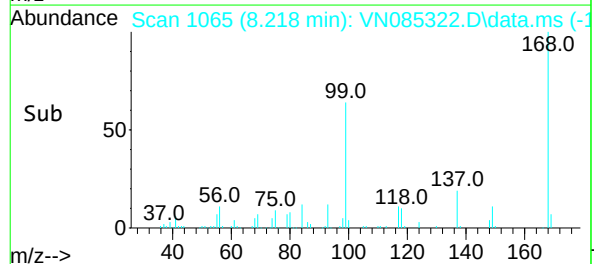
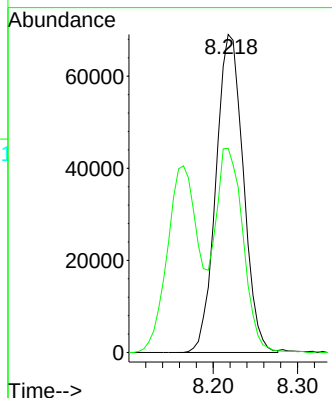
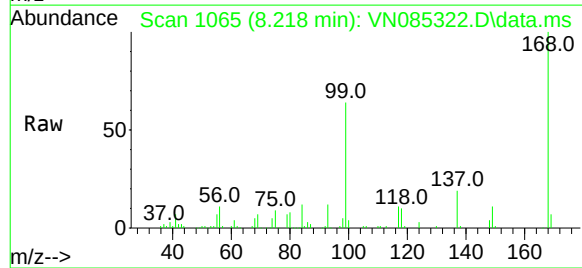
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 155532
Ion Ratio Lower Upper
168 100
99 63.7 51.0 76.4

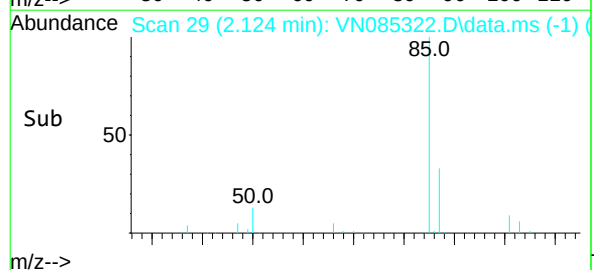
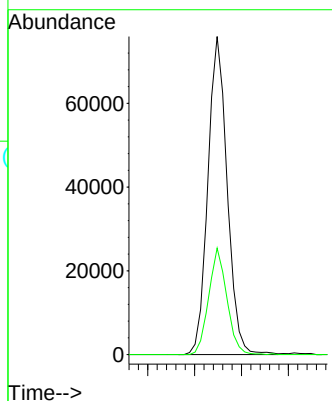
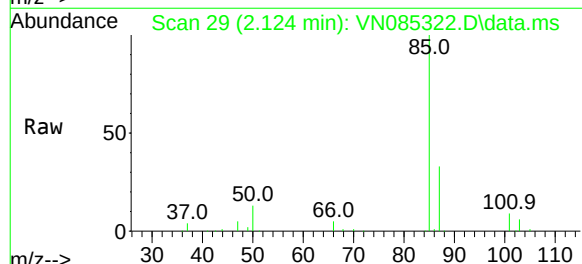
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

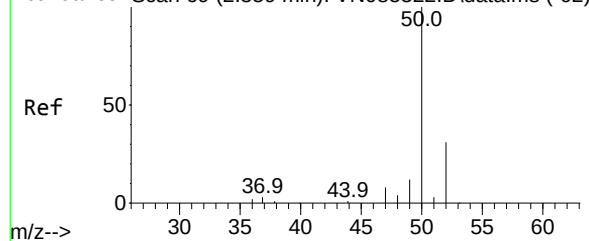


#2
Dichlorodifluoromethane
Concen: 51.698 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 85 Resp: 108746
Ion Ratio Lower Upper
85 100
87 33.5 16.8 50.3



Abundance Scan 69 (2.359 min): VN085322.D\data.ms (-62)



#3

Chloromethane

Concen: 45.115 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

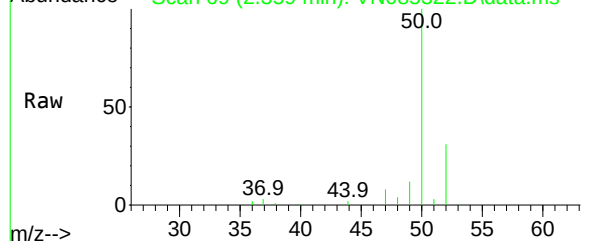
Instrument :

MSVOA_N

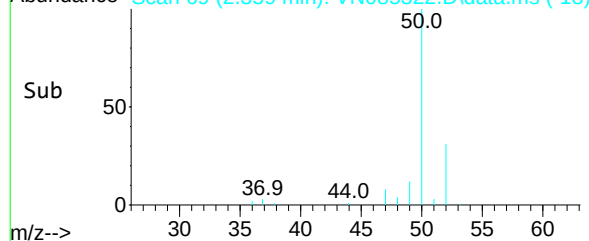
ClientSampleId :

VSTDICCC050

Abundance Scan 69 (2.359 min): VN085322.D\data.ms



Abundance Scan 69 (2.359 min): VN085322.D\data.ms (-18)



Tgt Ion: 50 Resp: 106659

Ion Ratio Lower Upper

50 100

52 31.4 25.1 37.7

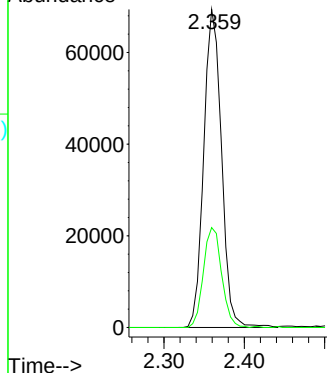
Manual Integrations

APPROVED

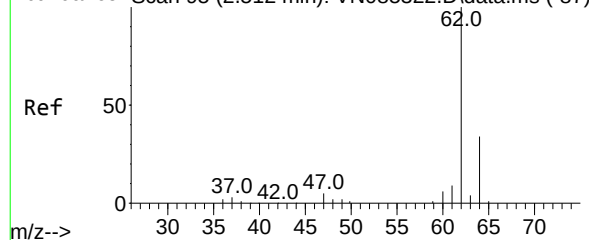
Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024

Abundance



Abundance Scan 95 (2.512 min): VN085322.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 47.149 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

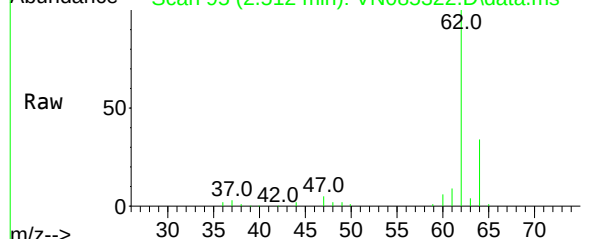
Tgt Ion: 62 Resp: 117884

Ion Ratio Lower Upper

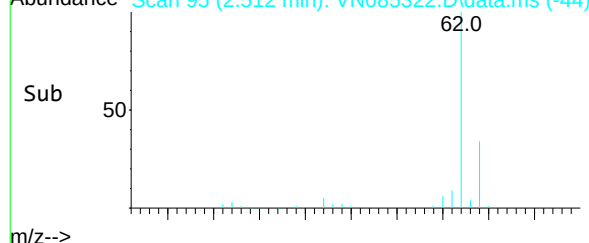
62 100

64 33.8 27.0 40.6

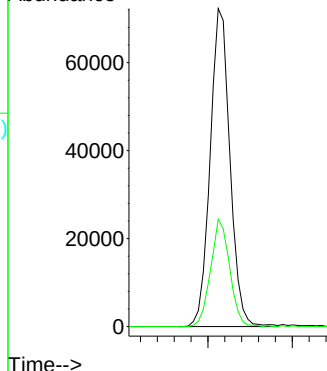
Abundance Scan 95 (2.512 min): VN085322.D\data.ms

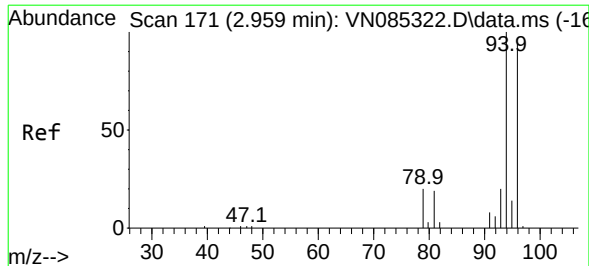


Abundance Scan 95 (2.512 min): VN085322.D\data.ms (-44)



Abundance





#5

Bromomethane

Concen: 45.796 ug/l

RT: 2.959 min Scan# 171

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 94 Resp: 74886

Ion Ratio Lower Upper

94 100

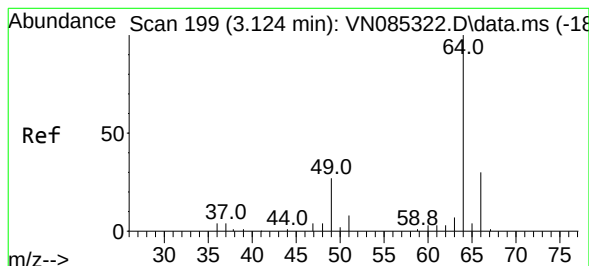
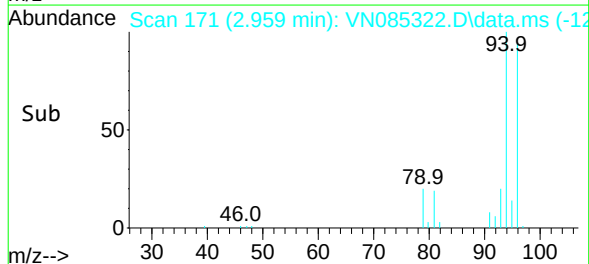
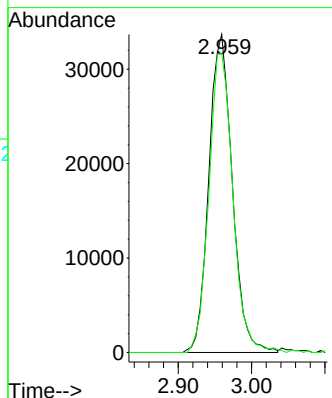
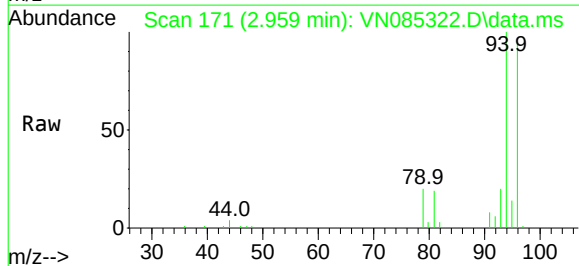
96 94.0 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#6

Chloroethane

Concen: 47.272 ug/l

RT: 3.124 min Scan# 199

Delta R.T. 0.000 min

Lab File: VN085322.D

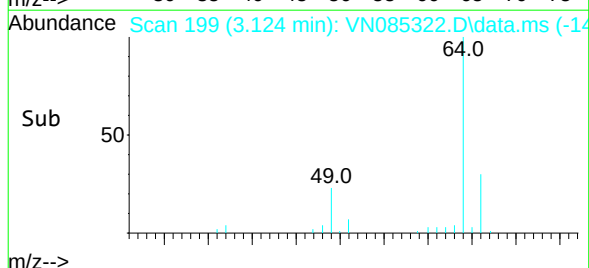
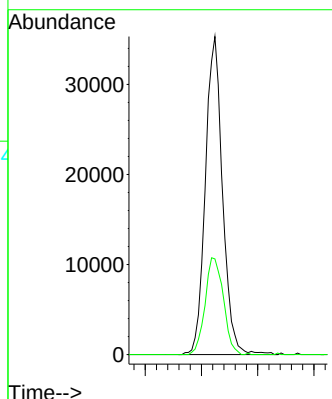
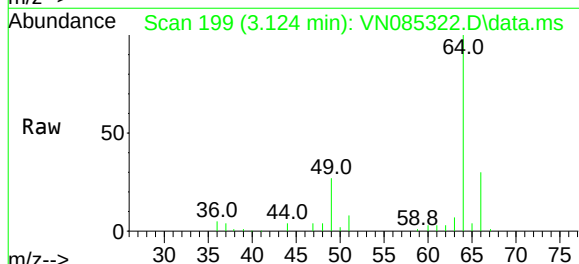
Acq: 27 Dec 2024 10:50

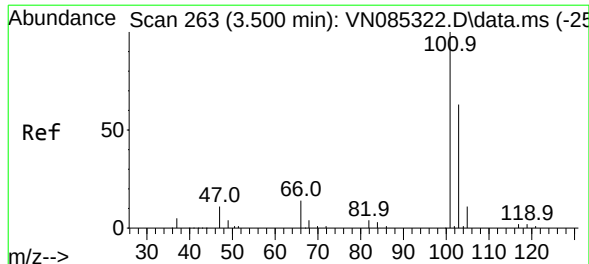
Tgt Ion: 64 Resp: 74955

Ion Ratio Lower Upper

64 100

66 30.1 24.1 36.1





#7

Trichlorofluoromethane

Concen: 48.340 ug/l

RT: 3.500 min Scan# 263

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 158878

Ion Ratio Lower Upper

101 100

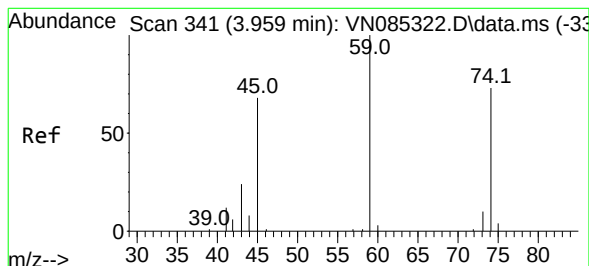
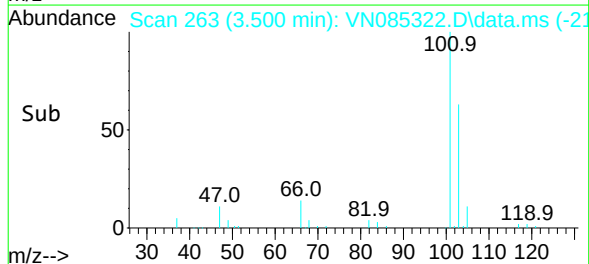
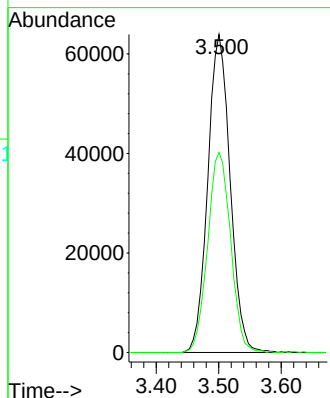
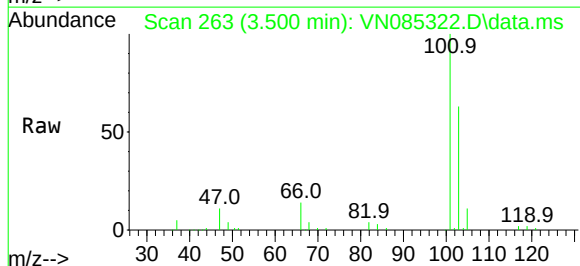
103 62.9 50.3 75.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#8

Diethyl Ether

Concen: 51.048 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.000 min

Lab File: VN085322.D

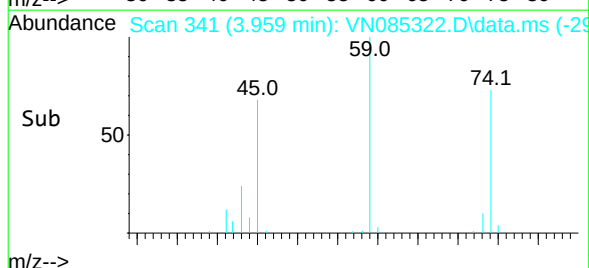
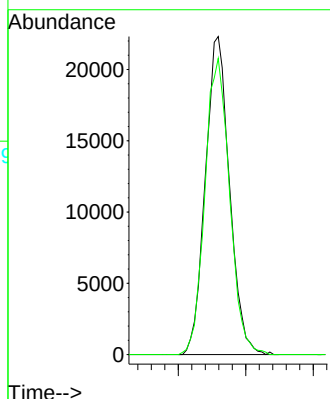
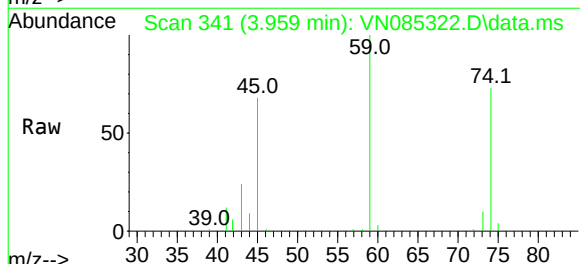
Acq: 27 Dec 2024 10:50

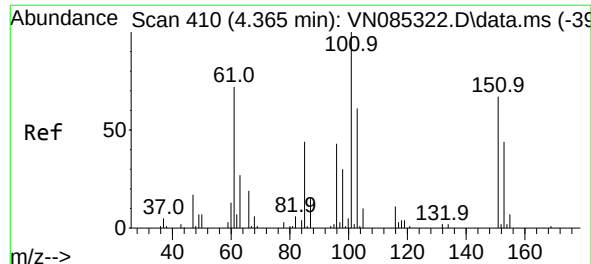
Tgt Ion: 74 Resp: 55553

Ion Ratio Lower Upper

74 100

45 95.1 47.5 142.6





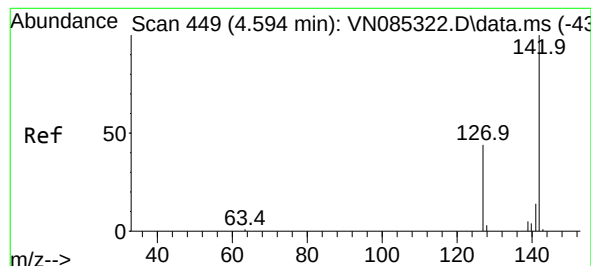
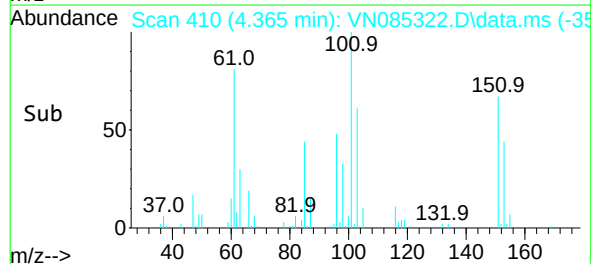
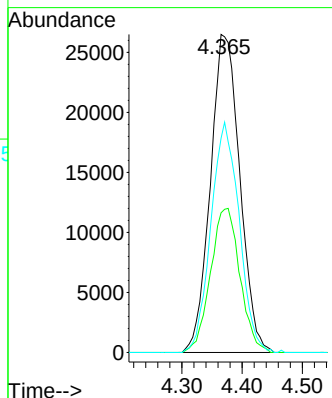
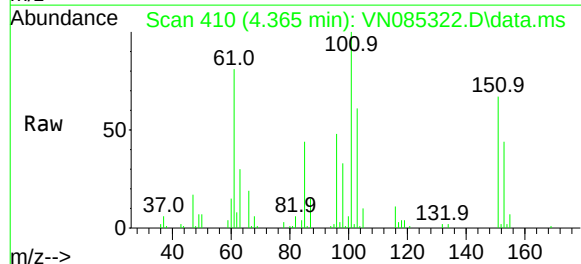
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.064 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	101	Resp	89878
Ion	Ratio	Lower	Upper
101	100		
85	45.3	36.2	54.4
151	69.7	55.8	83.6

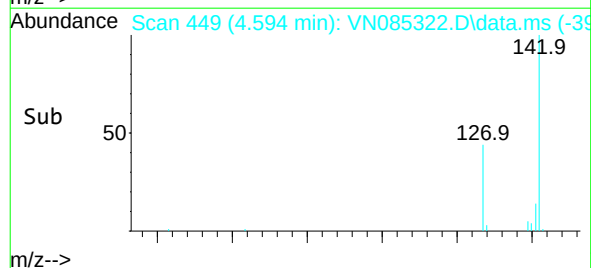
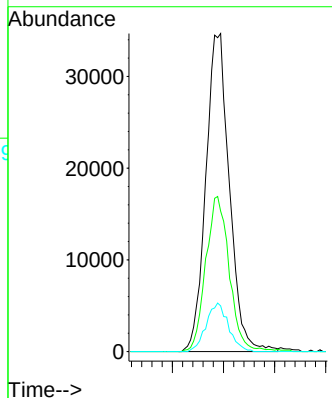
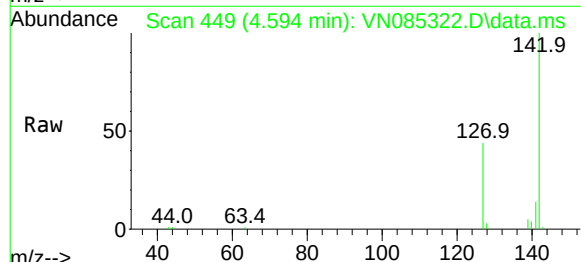
Manual Integrations
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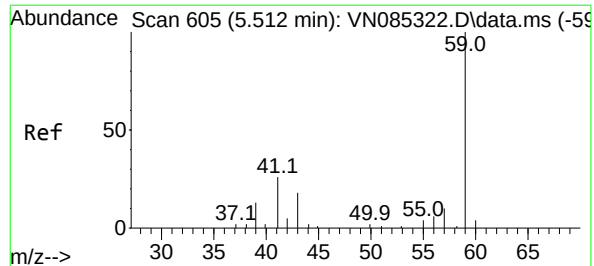
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#10
Methyl Iodide
Concen: 51.423 ug/l
RT: 4.594 min Scan# 449
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion	142	Resp	111290
Ion	Ratio	Lower	Upper
142	100		
127	44.1	35.3	52.9
141	14.4	11.5	17.3





#11

Tert butyl alcohol

Concen: 239.459 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 66517

Ion Ratio Lower Upper

59 100

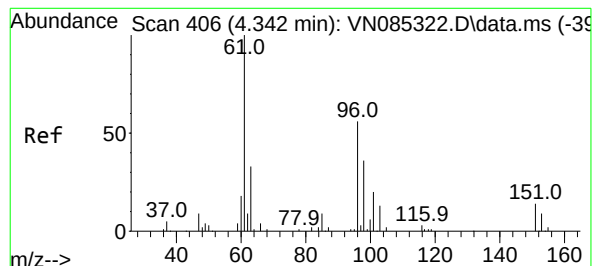
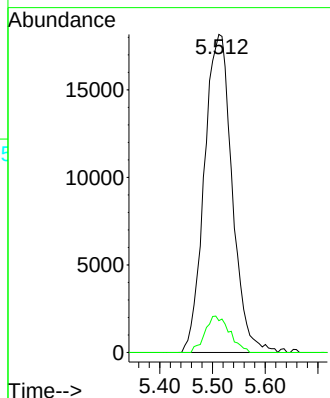
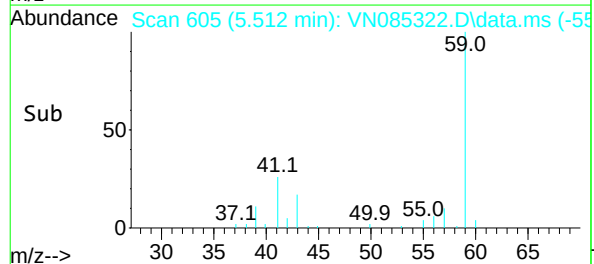
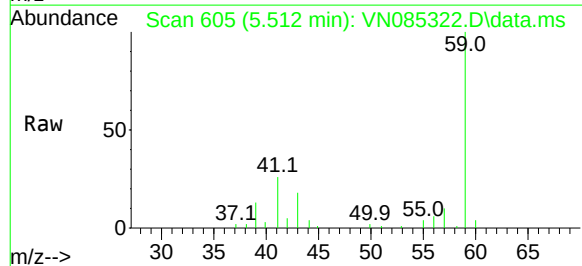
57 10.1 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#12

1,1-Dichloroethene

Concen: 48.422 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

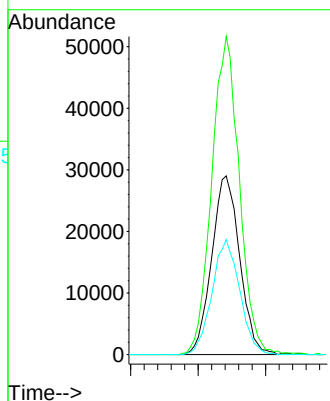
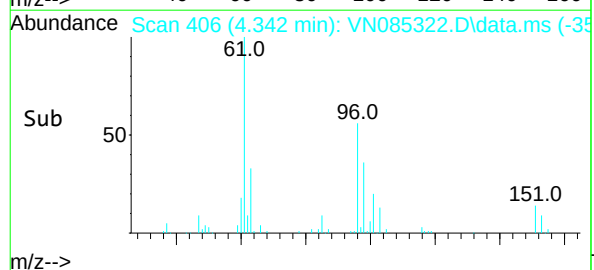
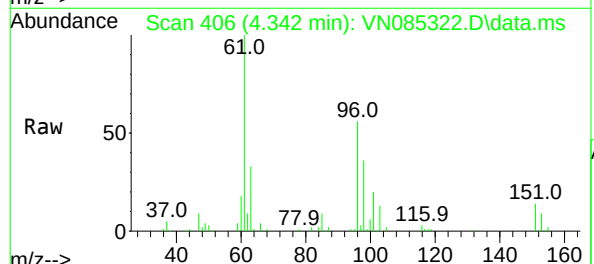
Tgt Ion: 96 Resp: 83691

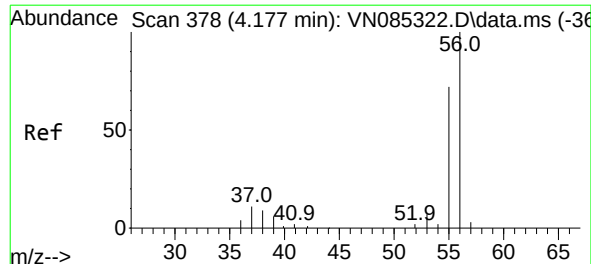
Ion Ratio Lower Upper

96 100

61 178.0 142.4 213.6

98 64.4 51.5 77.3





#13

Acrolein

Concen: 234.253 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 101450

Ion Ratio Lower Upper

56 100

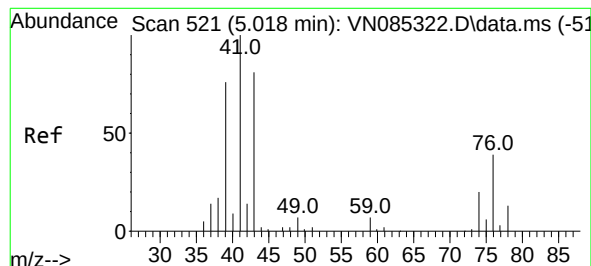
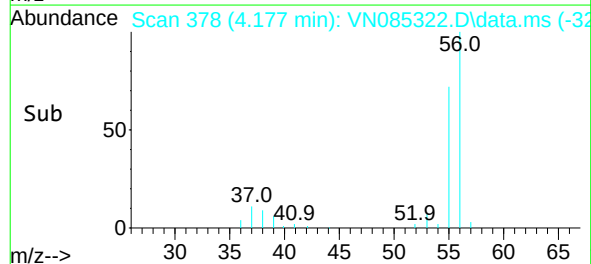
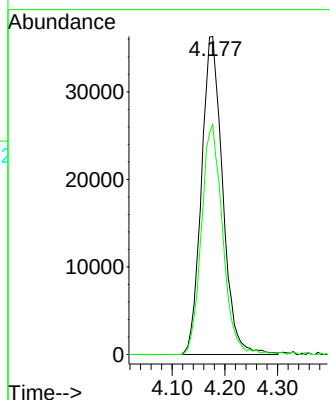
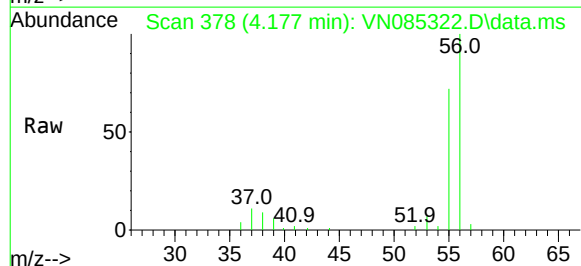
55 71.9 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#14

Allyl chloride

Concen: 48.082 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

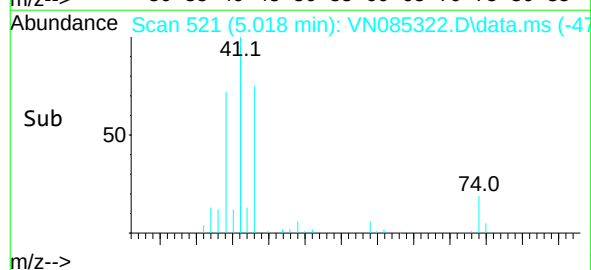
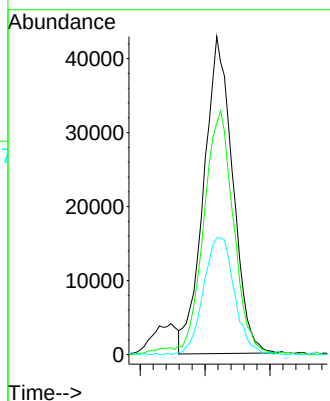
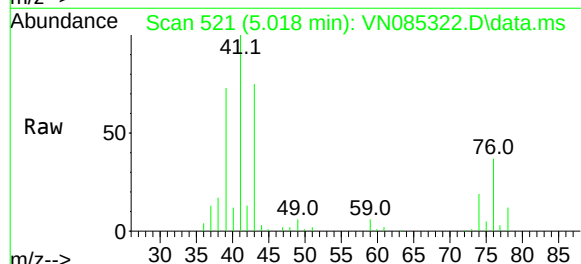
Tgt Ion: 41 Resp: 133004

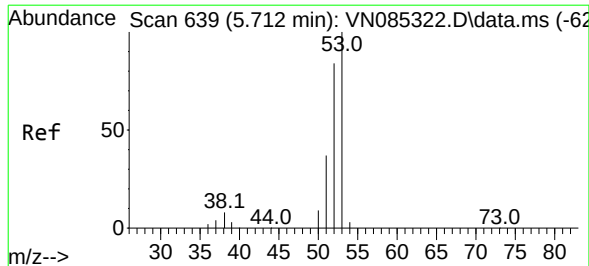
Ion Ratio Lower Upper

41 100

39 80.5 64.4 96.6

76 39.4 31.5 47.3





#15

Acrylonitrile

Concen: 244.585 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 213836

Ion Ratio Lower Upper

53 100

52 83.3 66.6 100.0

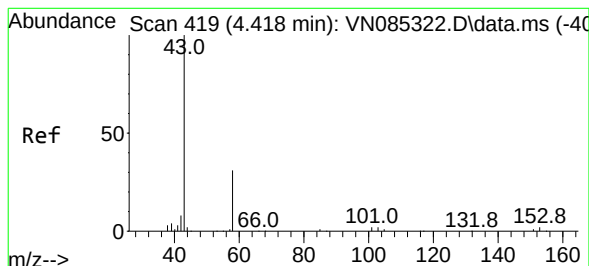
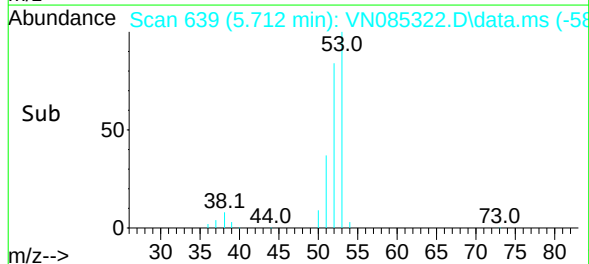
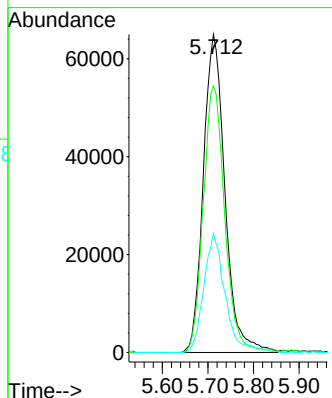
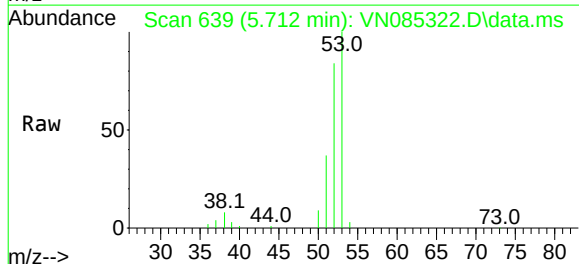
51 37.0 29.6 44.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#16

Acetone

Concen: 237.550 ug/l

RT: 4.418 min Scan# 419

Delta R.T. 0.000 min

Lab File: VN085322.D

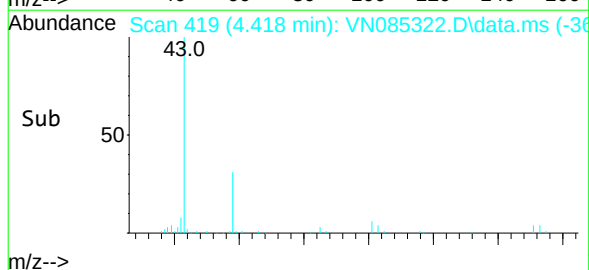
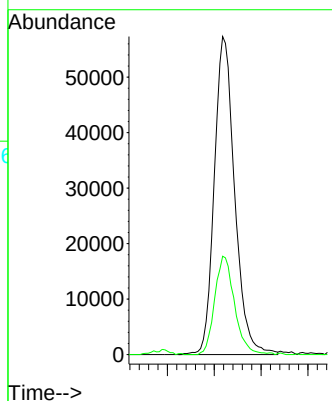
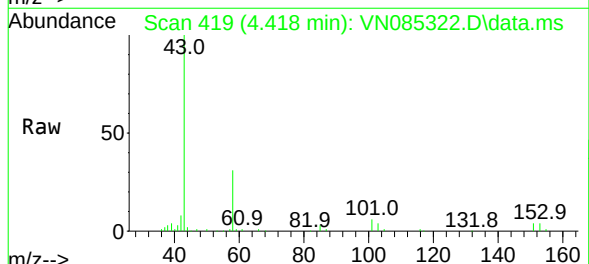
Acq: 27 Dec 2024 10:50

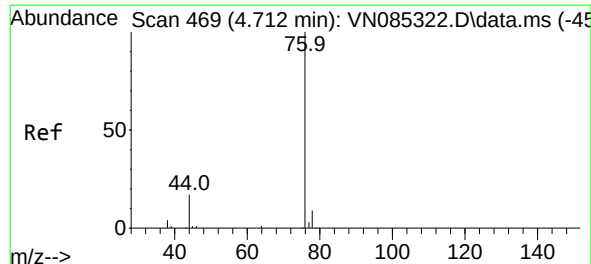
Tgt Ion: 43 Resp: 173280

Ion Ratio Lower Upper

43 100

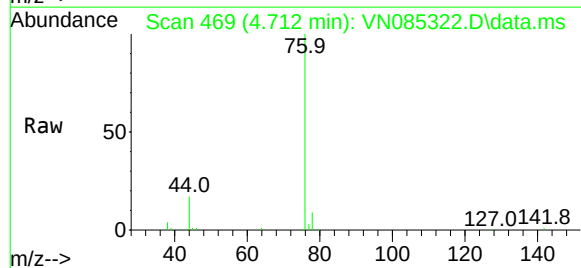
58 30.6 24.5 36.7





#17
Carbon Disulfide
Concen: 45.421 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

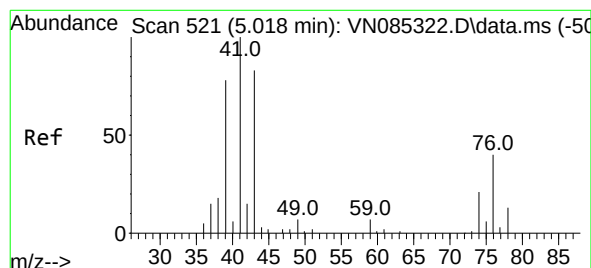
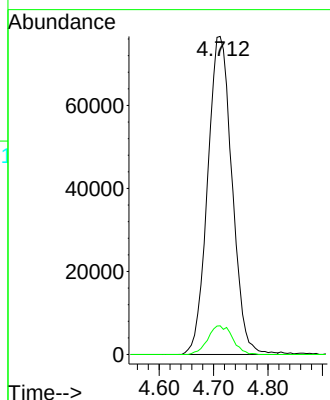
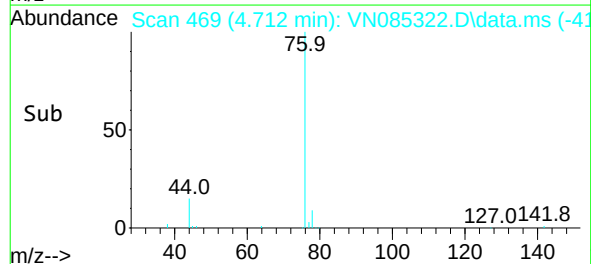
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 76 Resp: 238824
Ion Ratio Lower Upper
76 100
78 9.0 7.2 10.8

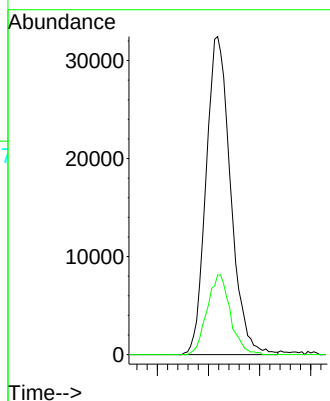
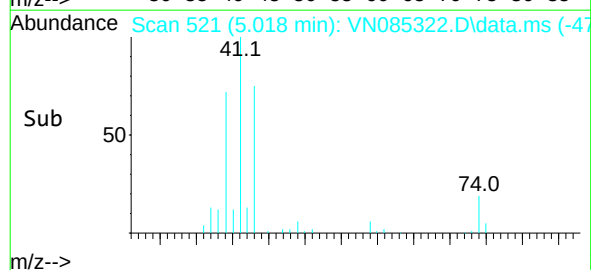
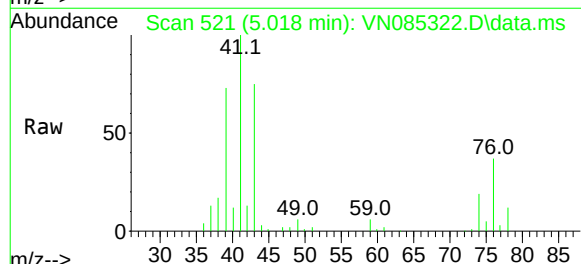
Manual Integrations
APPROVED

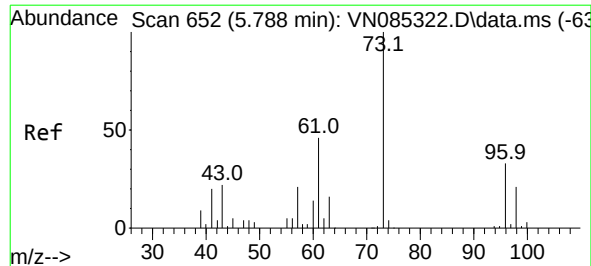
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#18
Methyl Acetate
Concen: 48.449 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 43 Resp: 108199
Ion Ratio Lower Upper
43 100
74 23.8 19.0 28.6





#19

Methyl tert-butyl Ether

Concen: 51.737 ug/l

RT: 5.788 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 290643

Ion Ratio Lower Upper

73 100

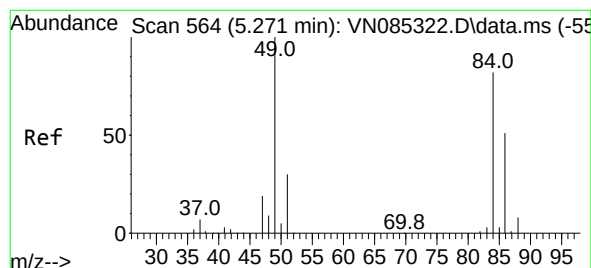
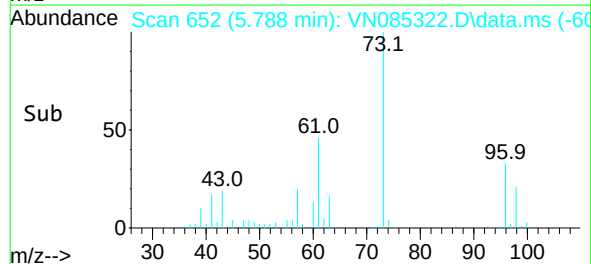
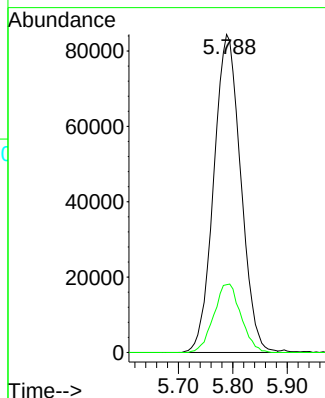
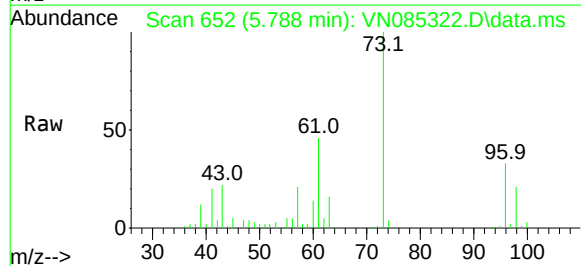
57 21.3 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#20

Methylene Chloride

Concen: 48.601 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion: 84 Resp: 95357

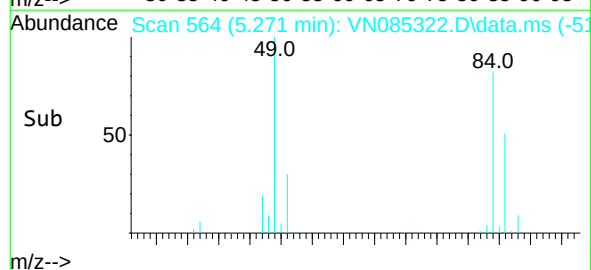
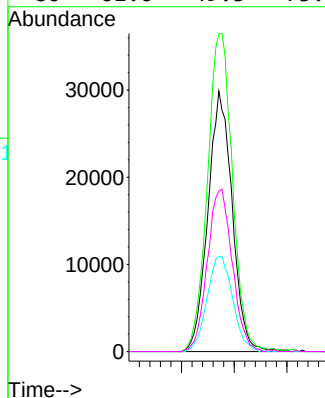
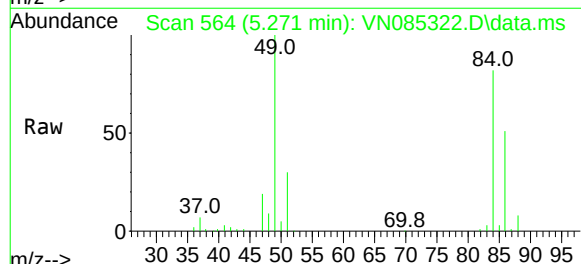
Ion Ratio Lower Upper

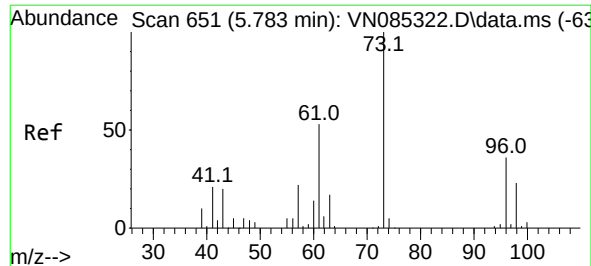
84 100

49 122.0 97.6 146.4

51 36.4 29.1 43.7

86 61.6 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 48.686 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085322.D

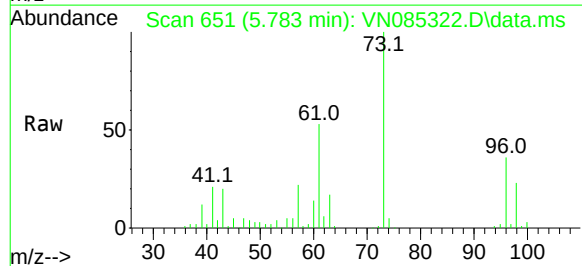
Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

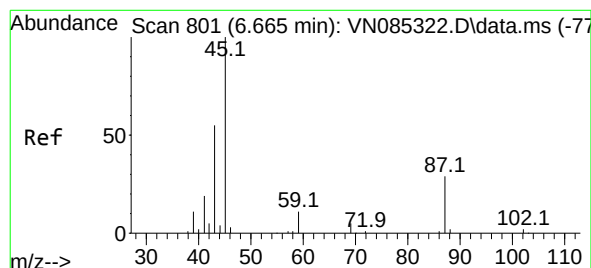
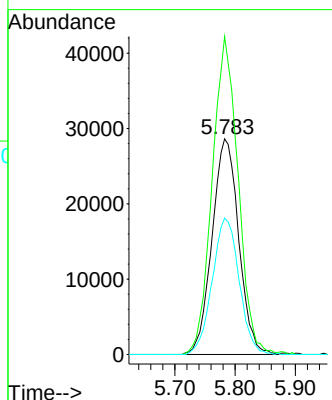
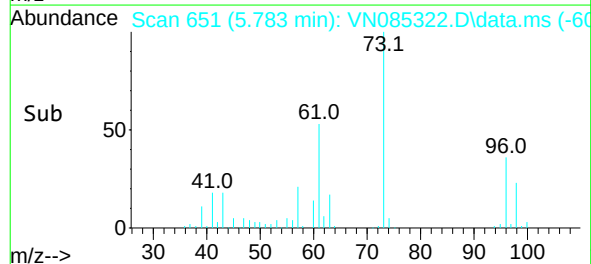
VSTDICCC050



Tgt Ion:	96	Resp:	87901
Ion	Ratio	Lower	Upper
96	100		
61	147.5	118.0	177.0
98	63.2	50.6	75.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#22

Diisopropyl ether

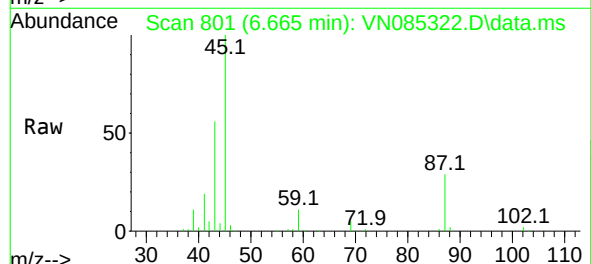
Concen: 50.788 ug/l

RT: 6.665 min Scan# 801

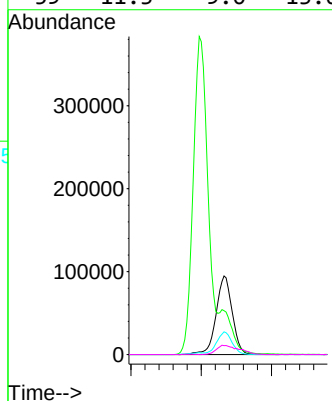
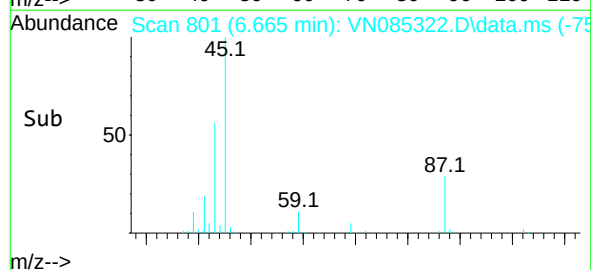
Delta R.T. 0.000 min

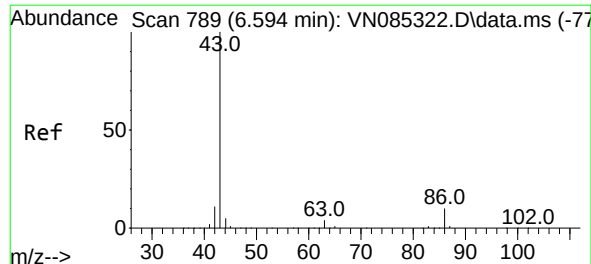
Lab File: VN085322.D

Acq: 27 Dec 2024 10:50



Tgt Ion:	45	Resp:	302742
Ion	Ratio	Lower	Upper
45	100		
43	55.1	44.1	66.1
87	29.0	23.2	34.8
59	11.3	9.0	13.6





#23

Vinyl Acetate

Concen: 259.168 ug/l

RT: 6.594 min Scan# 789

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 1110592

Ion Ratio Lower Upper

43 100

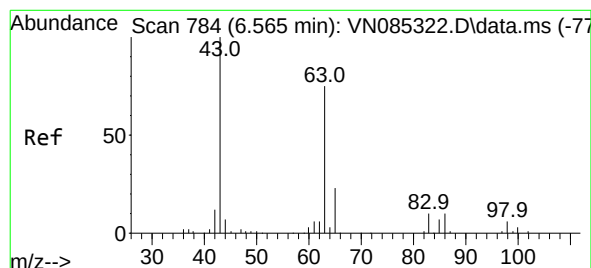
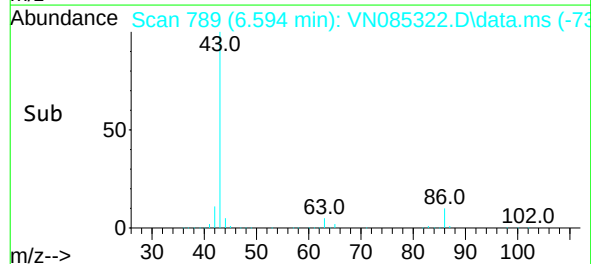
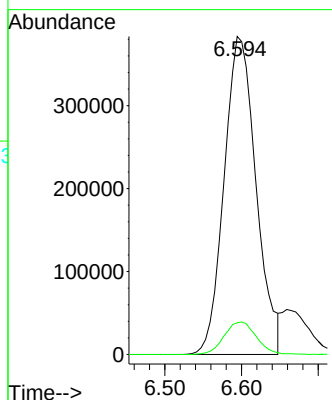
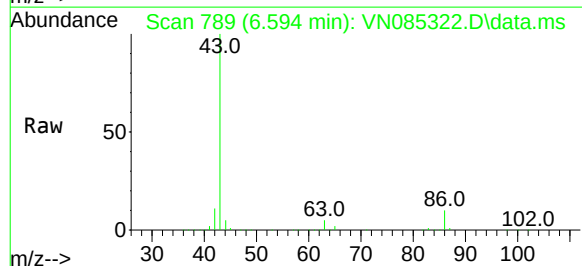
86 10.0 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#24

1,1-Dichloroethane

Concen: 48.458 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

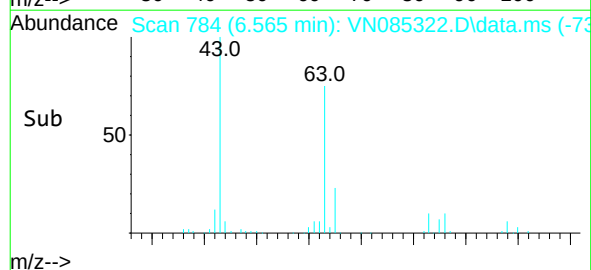
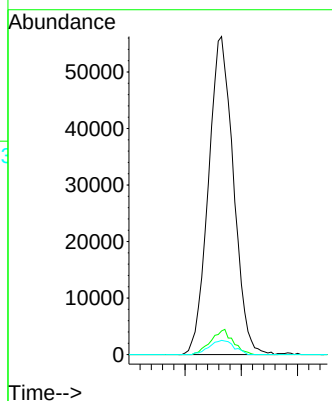
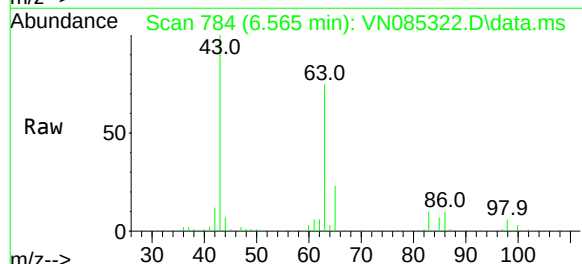
Tgt Ion: 63 Resp: 173999

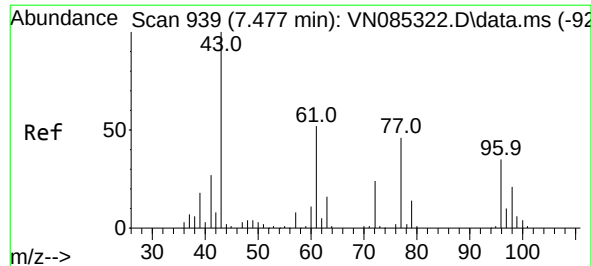
Ion Ratio Lower Upper

63 100

98 7.4 3.7 11.1

100 4.5 2.3 6.8





#25

2-Butanone

Concen: 252.198 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion: 43 Resp: 285403

Ion Ratio Lower Upper

43 100

72 24.5 19.6 29.4

Instrument :

MSVOA_N

ClientSampleId :

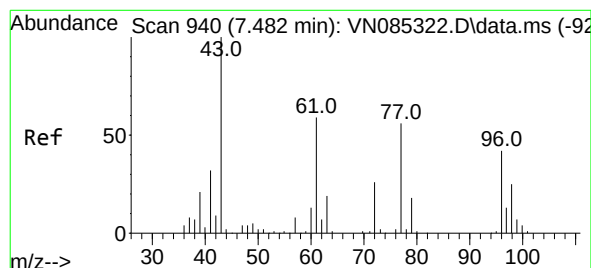
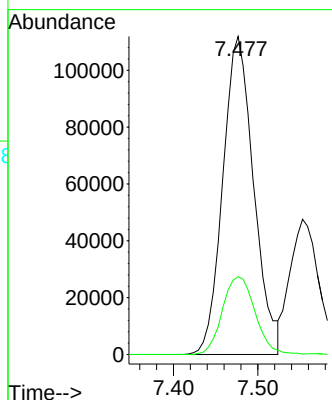
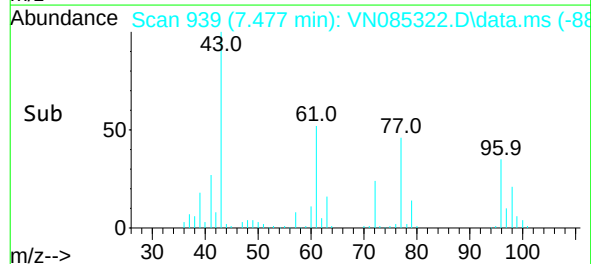
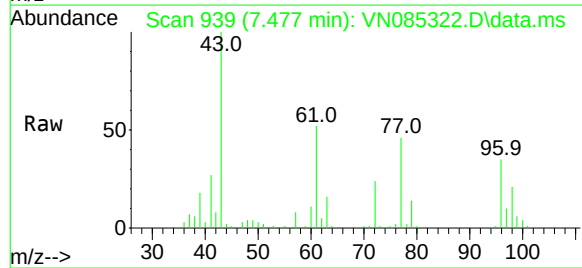
VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#26

2,2-Dichloropropane

Concen: 50.897 ug/l

RT: 7.482 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085322.D

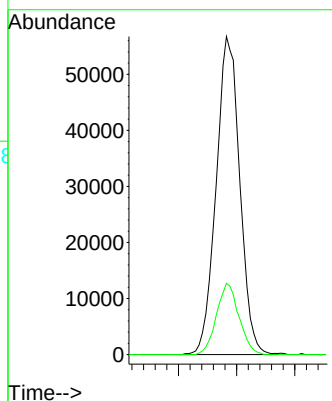
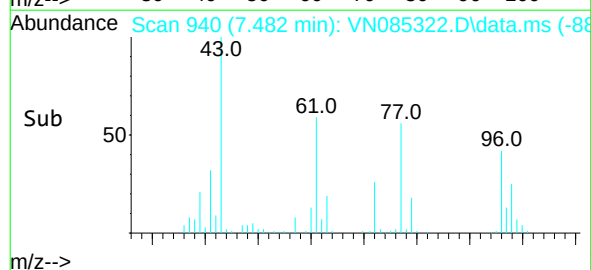
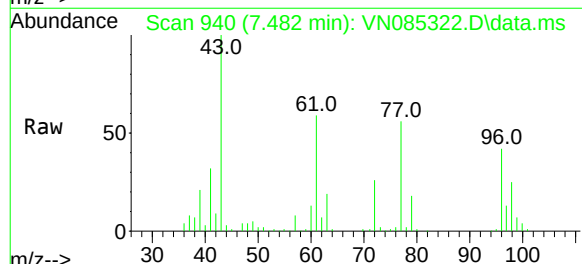
Acq: 27 Dec 2024 10:50

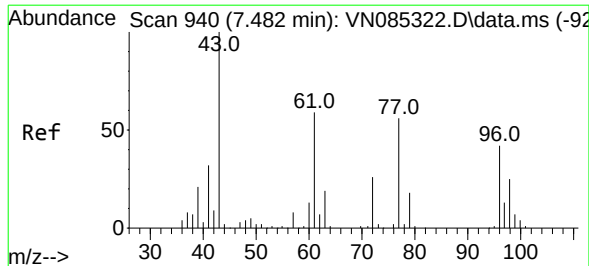
Tgt Ion: 77 Resp: 160118

Ion Ratio Lower Upper

77 100

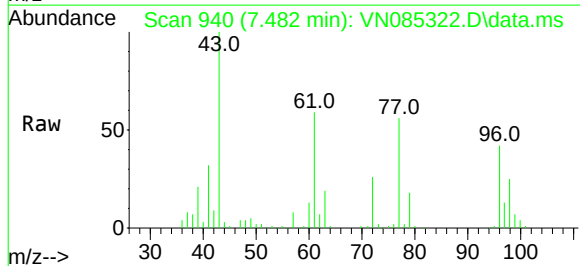
97 21.2 10.6 31.8





#27
cis-1,2-Dichloroethene
Concen: 50.718 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

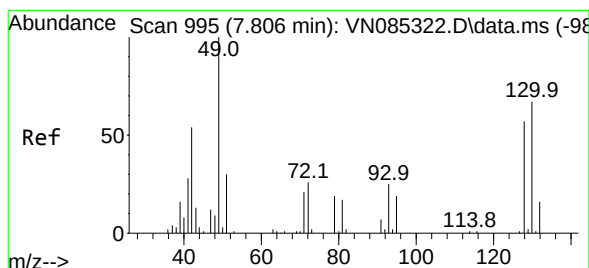
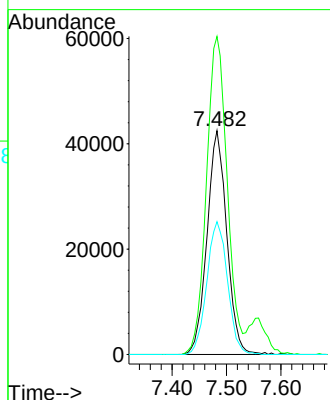
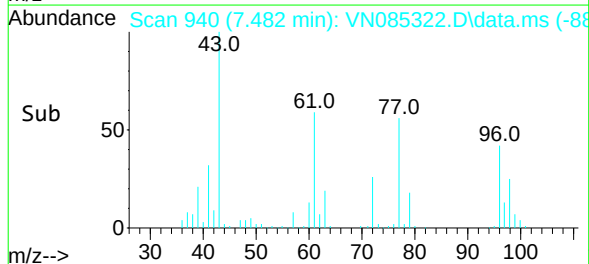
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 96 Resp: 107476
Ion Ratio Lower Upper
96 100
61 148.2 0.0 296.4
98 62.1 0.0 124.2

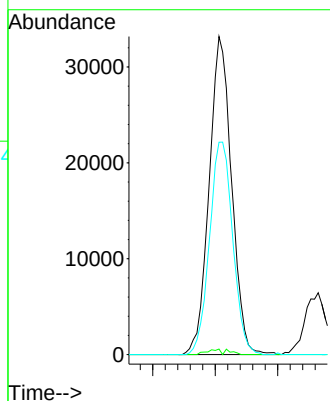
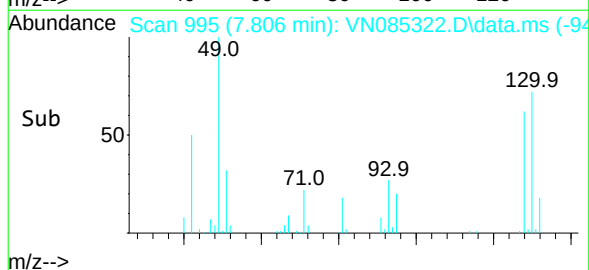
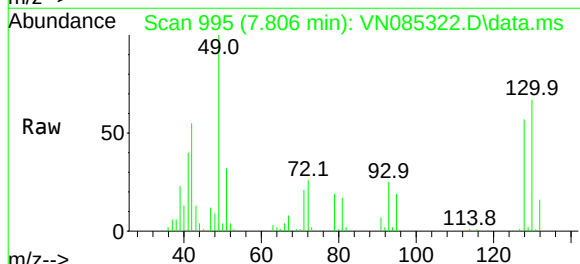
Manual Integrations
APPROVED

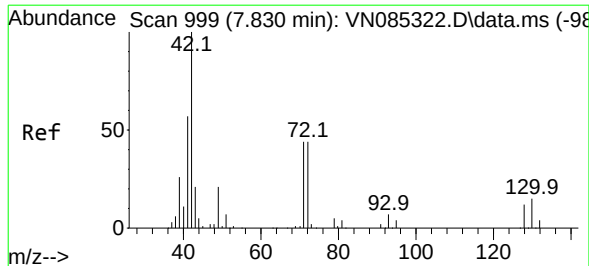
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#28
Bromochloromethane
Concen: 49.616 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 49 Resp: 82793
Ion Ratio Lower Upper
49 100
129 1.0 0.0 2.0
130 0.0 0.0 0.0





#29

Tetrahydrofuran

Concen: 254.548 ug/l

RT: 7.830 min Scan# 999

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

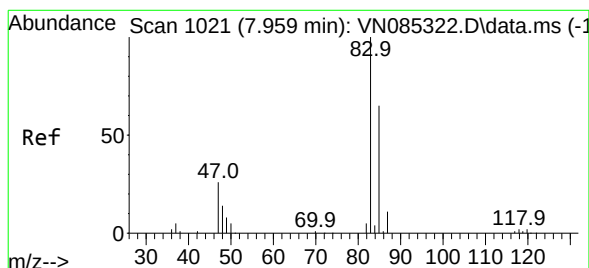
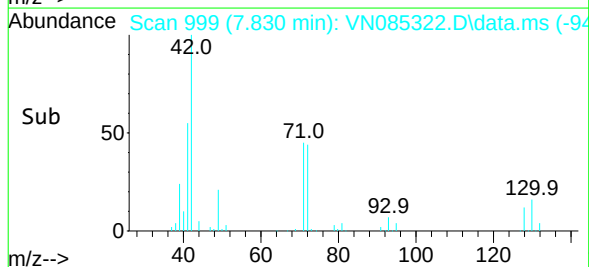
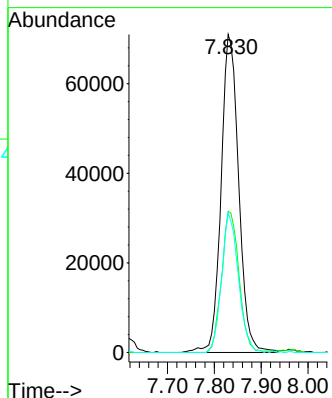
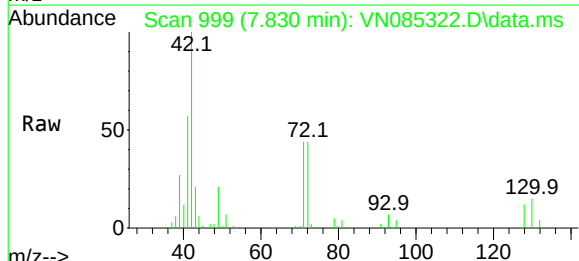
Tgt Ion:	42	Resp:	185555
Ion	Ratio	Lower	Upper
42	100		
72	43.9	35.1	52.7
71	41.7	33.4	50.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#30

Chloroform

Concen: 47.991 ug/l

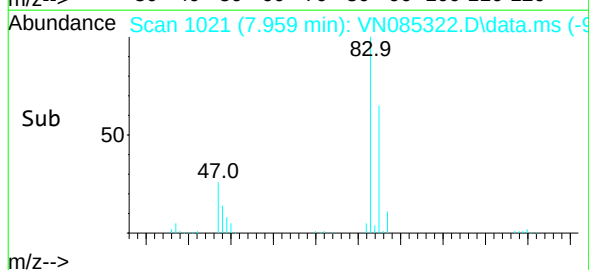
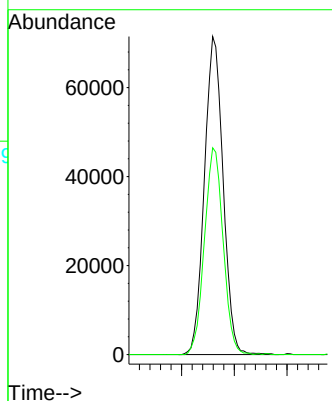
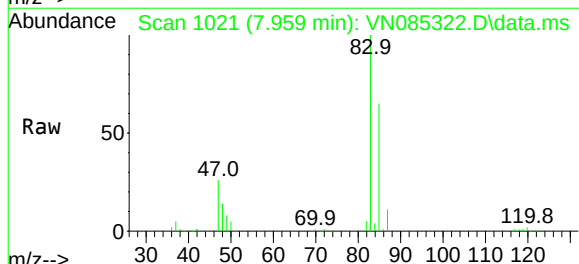
RT: 7.959 min Scan# 1021

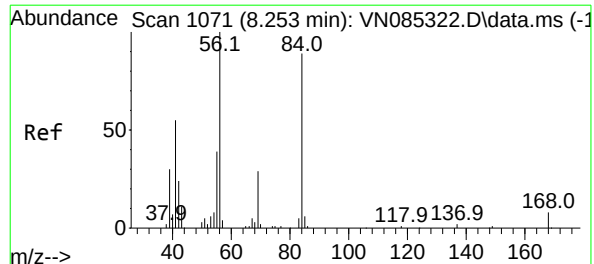
Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:	83	Resp:	176294
Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.0	78.0





#31

Cyclohexane

Concen: 46.455 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 152319

Ion Ratio Lower Upper

56 100

69 29.2 23.4 35.0

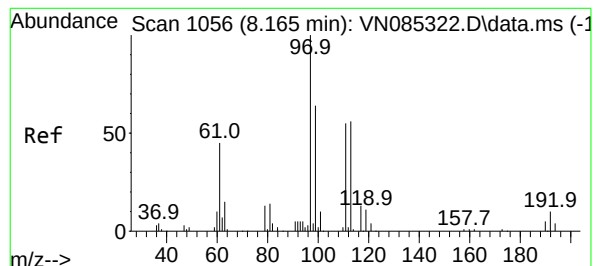
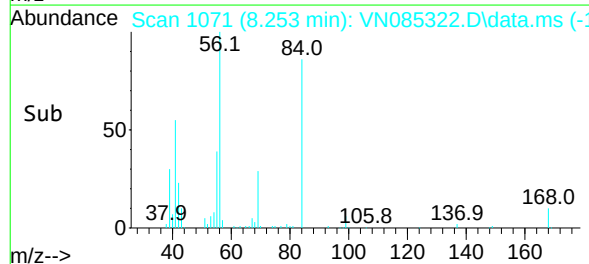
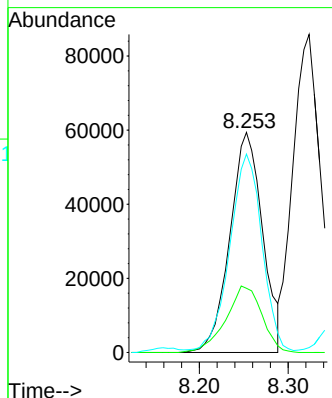
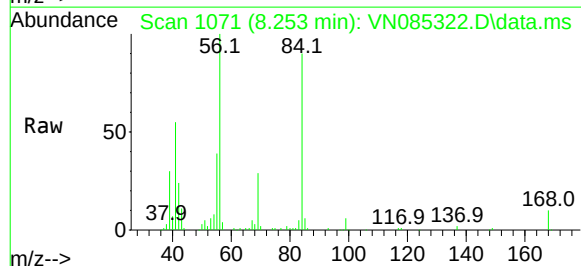
84 88.8 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#32

1,1,1-Trichloroethane

Concen: 48.441 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

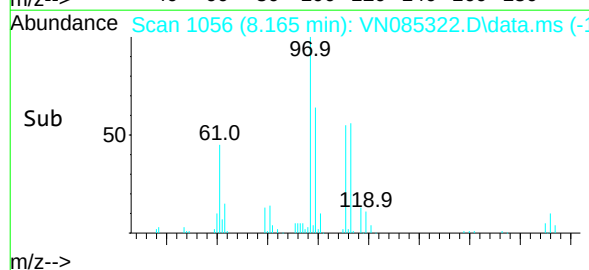
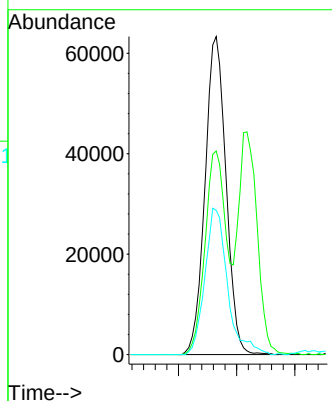
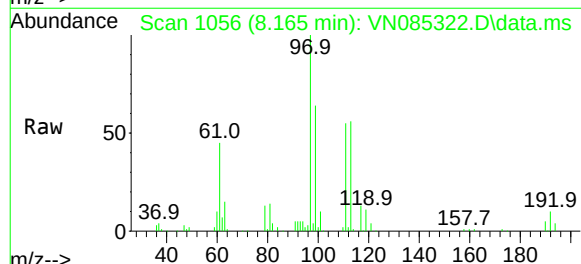
Tgt Ion: 97 Resp: 158921

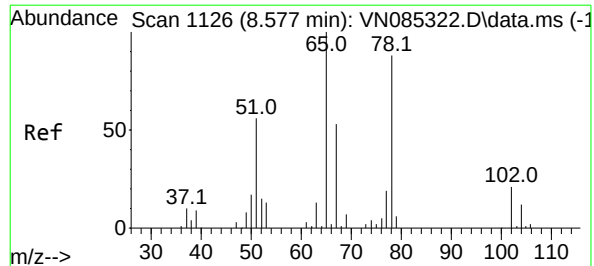
Ion Ratio Lower Upper

97 100

99 66.6 53.3 79.9

61 49.5 39.6 59.4





#33

1,2-Dichloroethane-d4

Concen: 50.305 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 111594

Ion Ratio Lower Upper

65 100

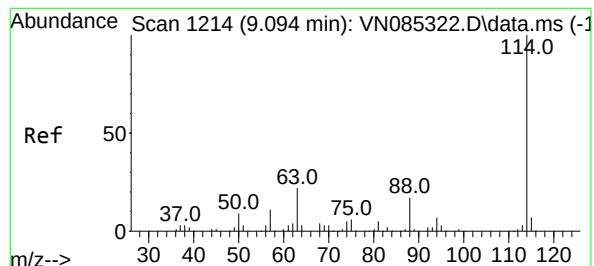
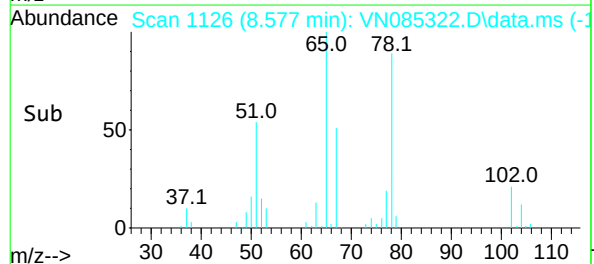
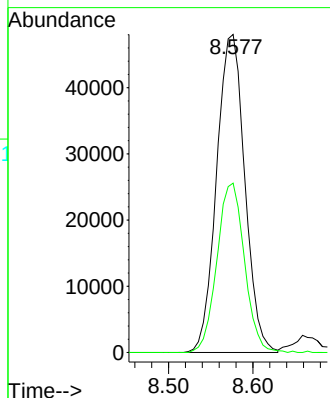
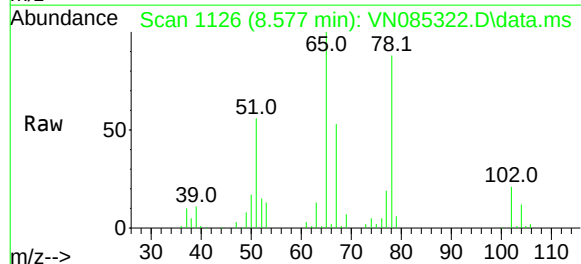
67 52.0 0.0 104.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

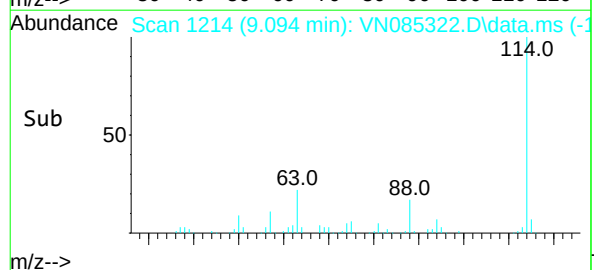
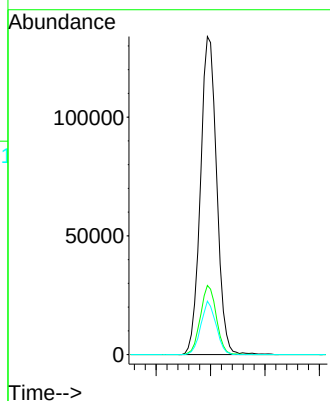
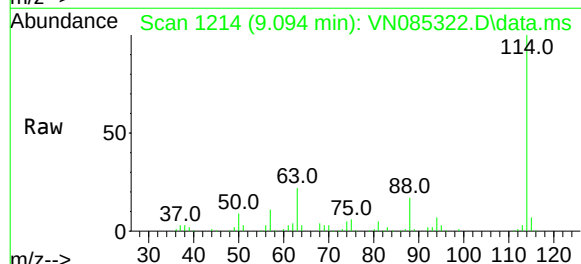
Tgt Ion:114 Resp: 278404

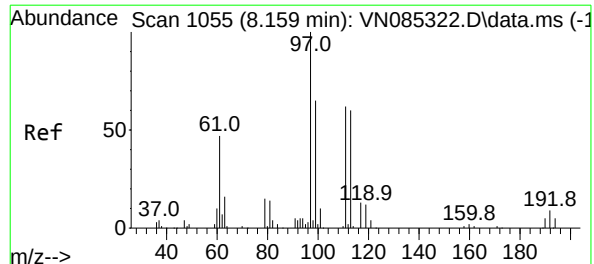
Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.4

88 16.8 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.825 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 88275

Ion Ratio Lower Upper

113 100

111 100.6 80.5 120.7

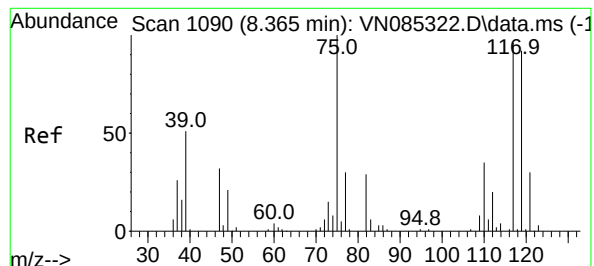
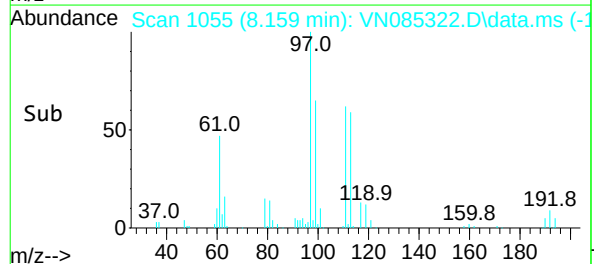
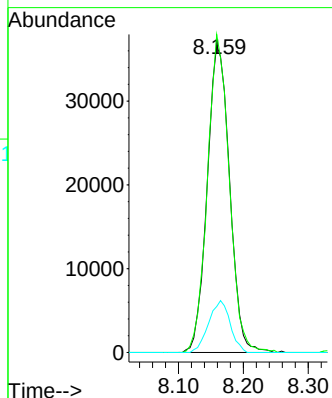
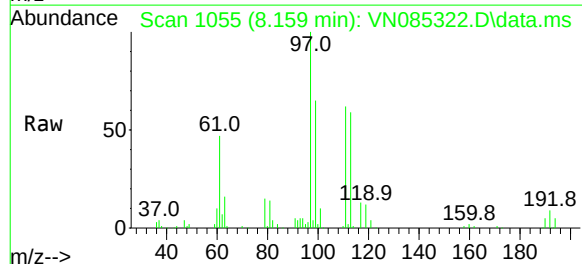
192 16.1 12.9 19.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#36

1,1-Dichloropropene

Concen: 50.513 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

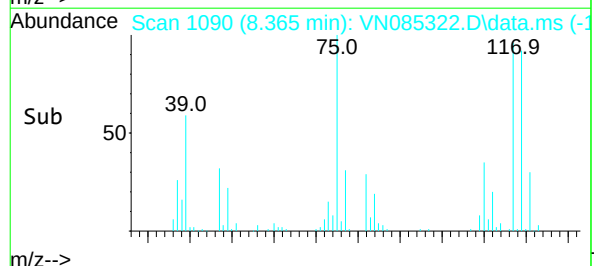
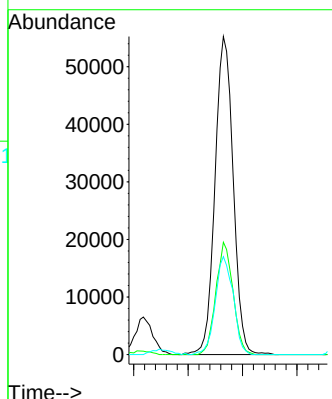
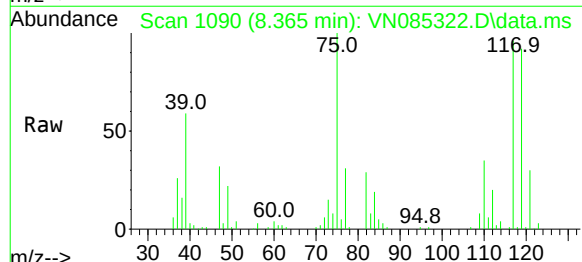
Tgt Ion: 75 Resp: 128454

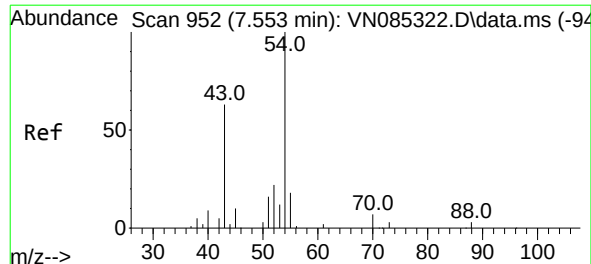
Ion Ratio Lower Upper

75 100

110 33.2 16.6 49.8

77 30.4 24.3 36.5





#37

Ethyl Acetate

Concen: 45.842 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

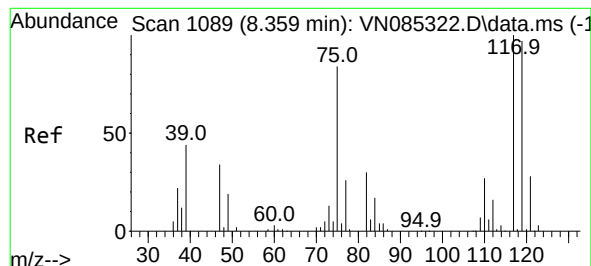
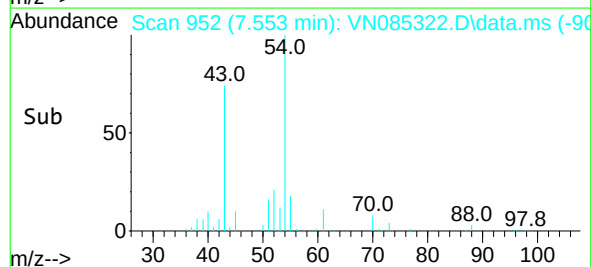
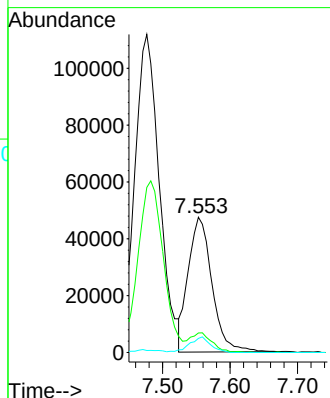
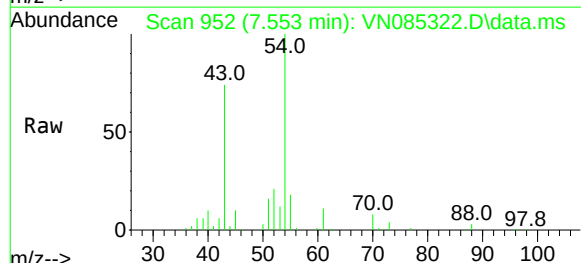
VSTDICCC050

Tgt Ion:	43	Resp:	115871
Ion	Ratio	Lower	Upper
43	100		
61	13.0	10.4	15.6
70	10.2	8.2	12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#38

Carbon Tetrachloride

Concen: 50.401 ug/l

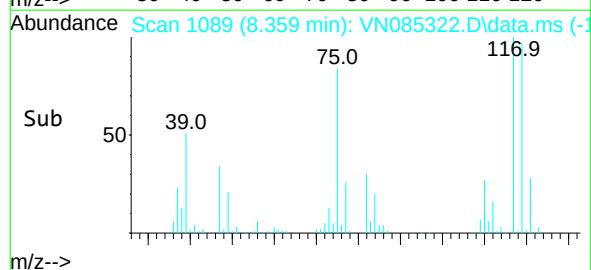
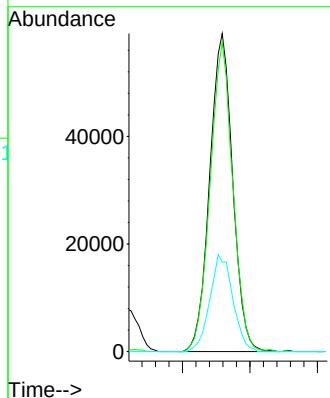
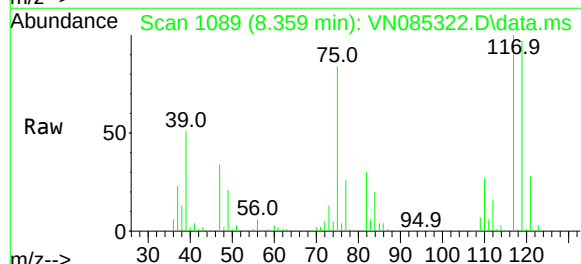
RT: 8.359 min Scan# 1089

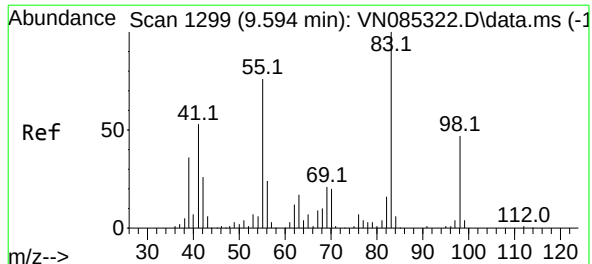
Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:	117	Resp:	139705
Ion	Ratio	Lower	Upper
117	100		
119	97.2	77.8	116.6
121	28.1	22.5	33.7





#39

Methylcyclohexane

Concen: 53.172 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 140293

Ion Ratio Lower Upper

83 100

55 75.9 60.7 91.1

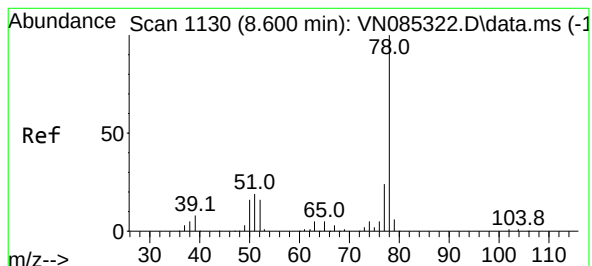
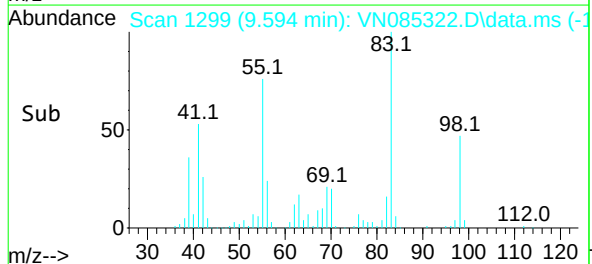
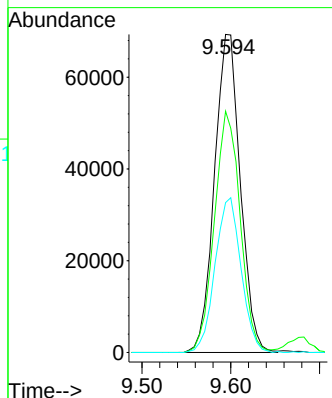
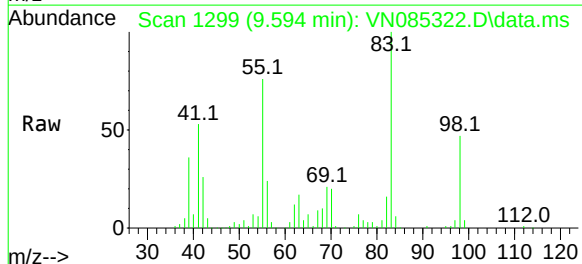
98 47.1 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#40

Benzene

Concen: 49.867 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085322.D

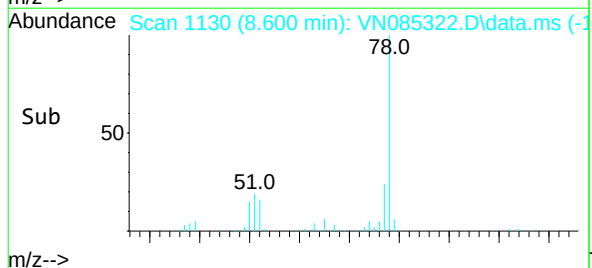
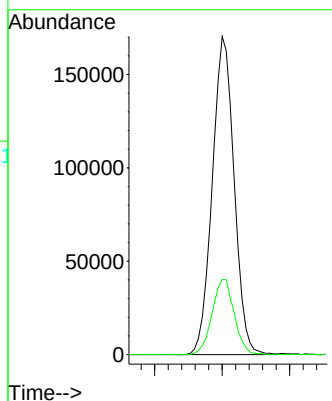
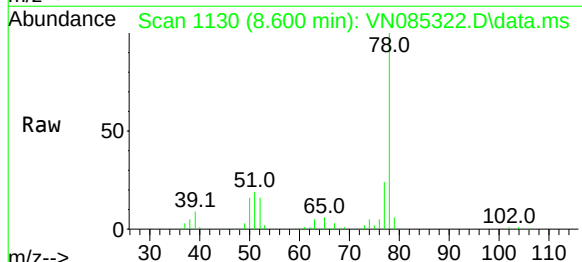
Acq: 27 Dec 2024 10:50

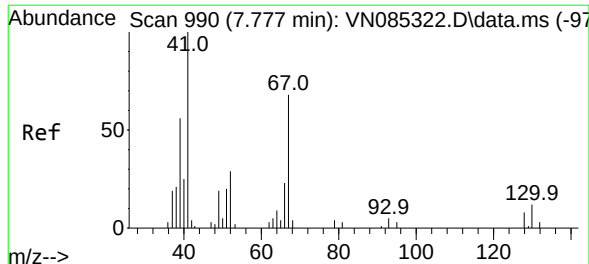
Tgt Ion: 78 Resp: 383405

Ion Ratio Lower Upper

78 100

77 23.7 19.0 28.4





#41

Methacrylonitrile

Concen: 50.764 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

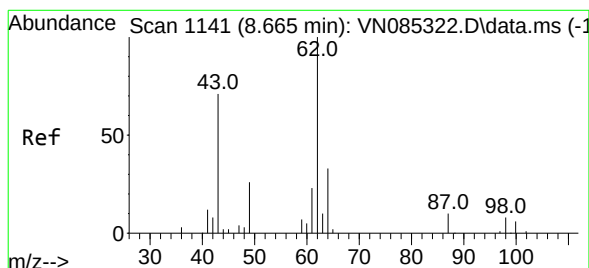
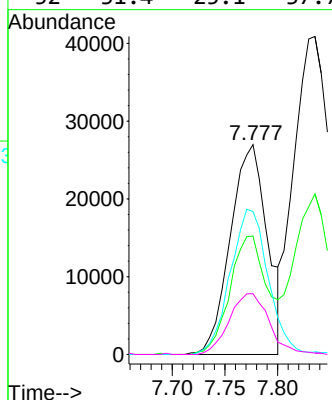
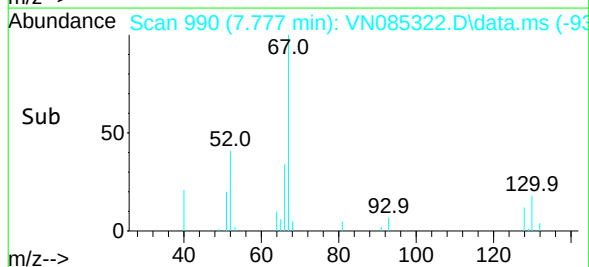
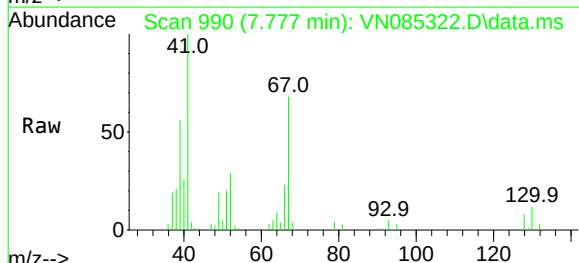
ClientSampleId :

VSTDICCC050

Tgt Ion:	41	Resp:	65714
Ion	Ratio	Lower	Upper
41	100		
39	57.3	45.8	68.8
67	71.4	57.1	85.7
52	31.4	25.1	37.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#42

1,2-Dichloroethane

Concen: 47.766 ug/l

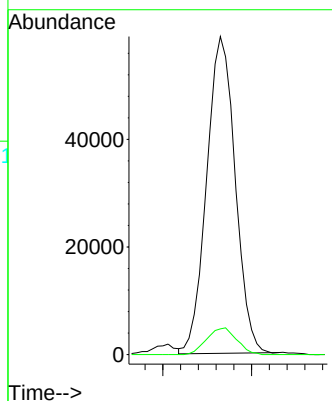
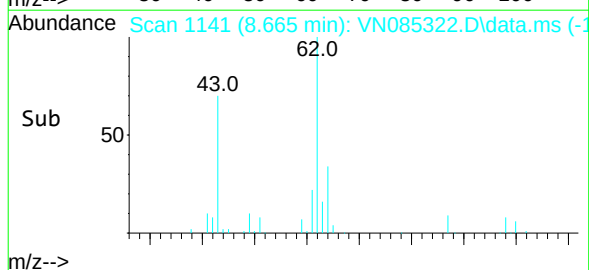
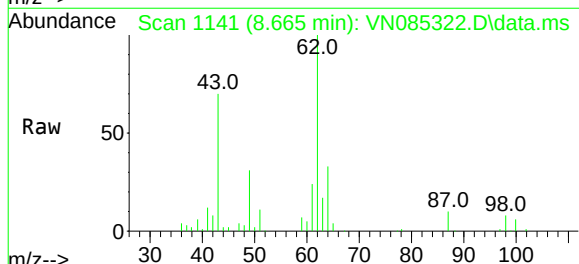
RT: 8.665 min Scan# 1141

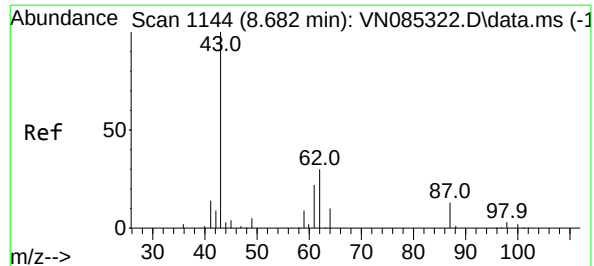
Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:	62	Resp:	131673
Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	17.6





#43

Isopropyl Acetate

Concen: 49.811 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 207309

Ion Ratio Lower Upper

43 100

61 26.0 20.8 31.2

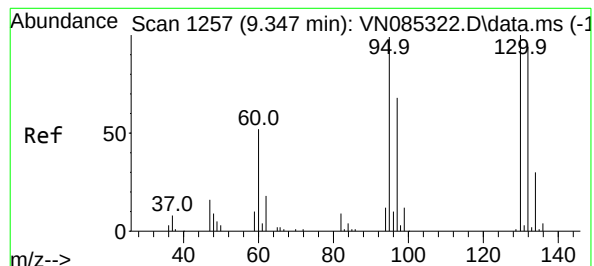
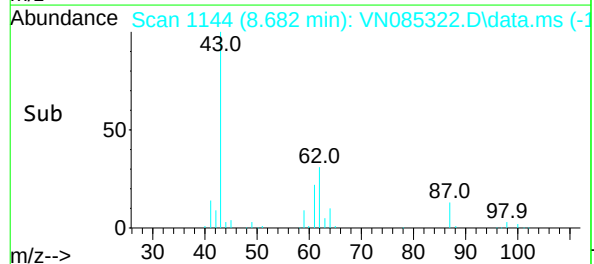
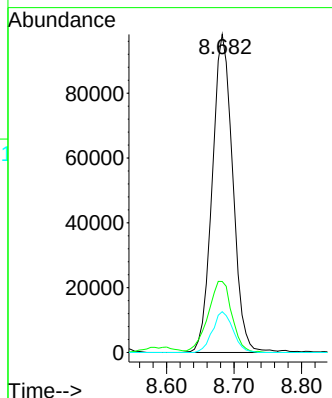
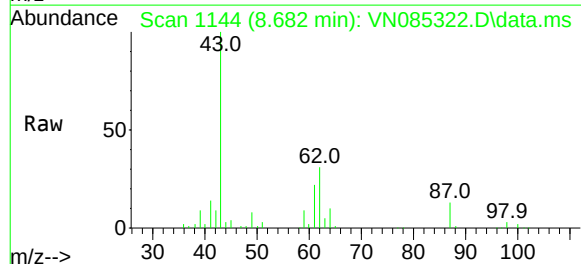
87 12.8 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#44

Trichloroethene

Concen: 47.578 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085322.D

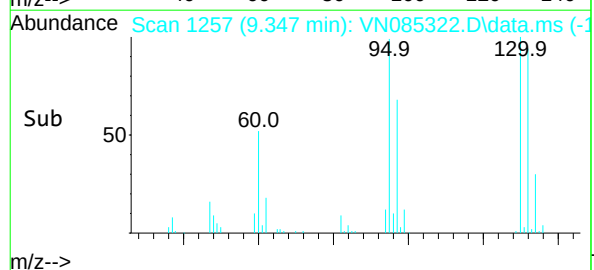
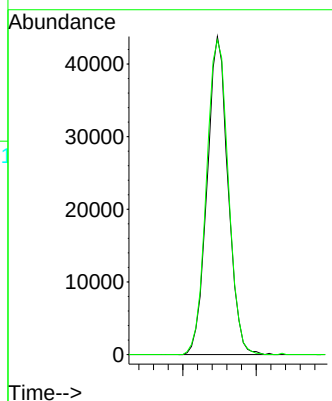
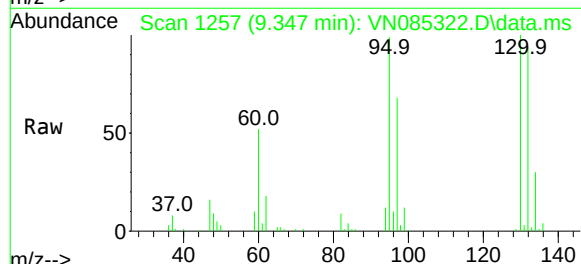
Acq: 27 Dec 2024 10:50

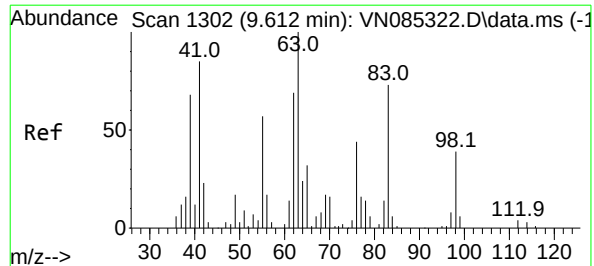
Tgt Ion:130 Resp: 86607

Ion Ratio Lower Upper

130 100

95 98.9 0.0 197.8





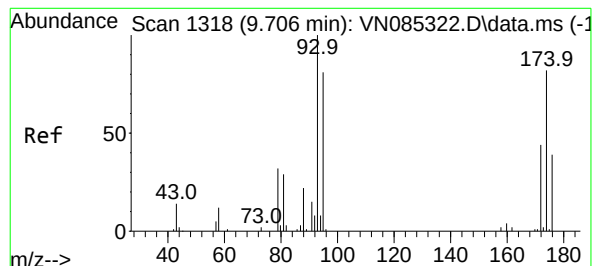
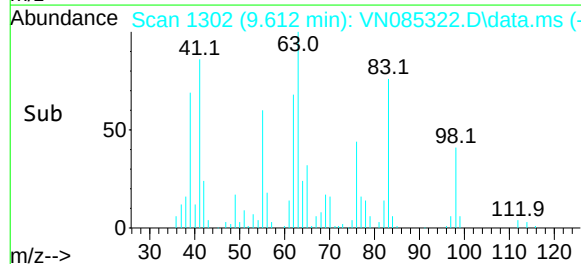
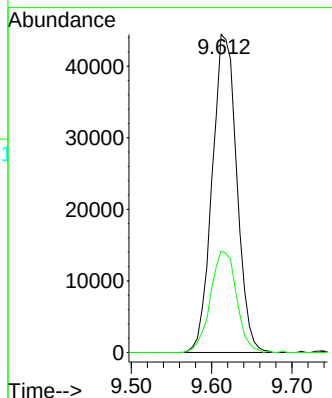
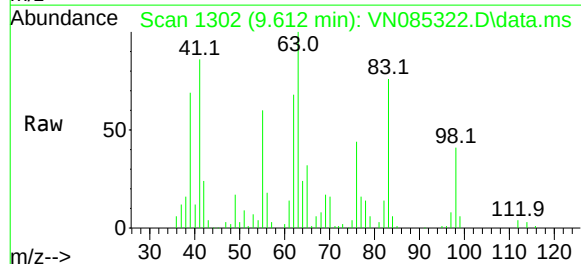
#45
1,2-Dichloropropane
Concen: 48.407 ug/l
RT: 9.612 min Scan# 1302
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 94480
Ion Ratio Lower Upper
63 100
65 31.9 25.5 38.3

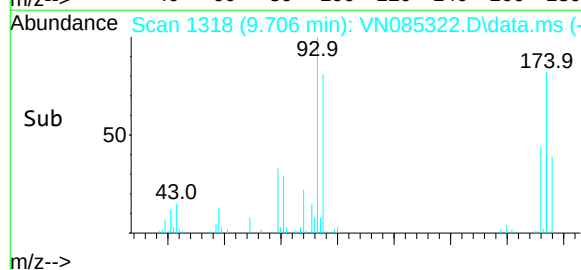
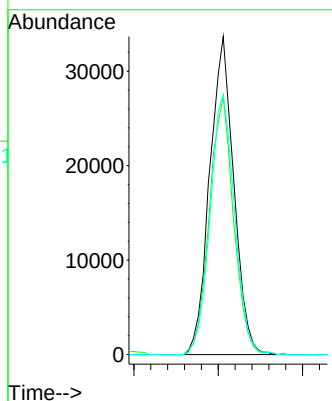
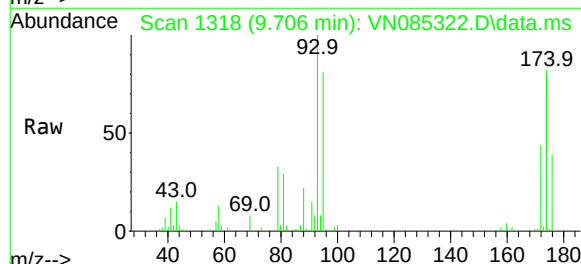
Manual Integrations
APPROVED

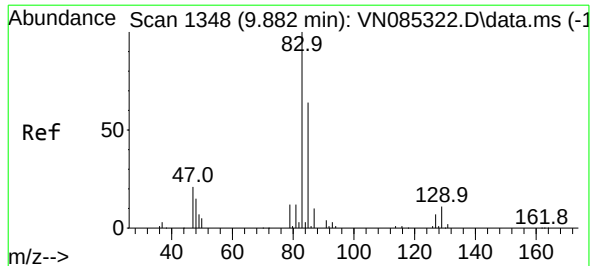
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#46
Dibromomethane
Concen: 49.281 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 93 Resp: 66895
Ion Ratio Lower Upper
93 100
95 81.6 65.3 97.9
174 83.0 66.4 99.6





#47

Bromodichloromethane

Concen: 49.791 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

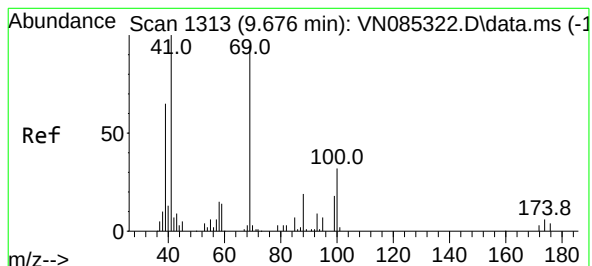
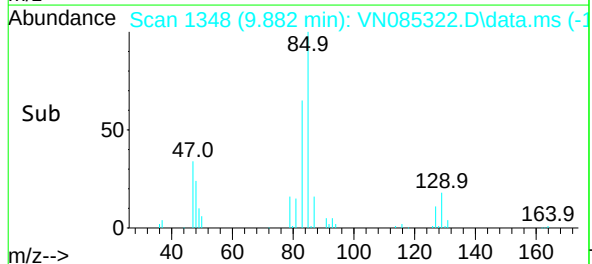
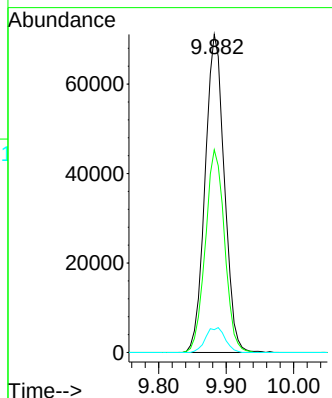
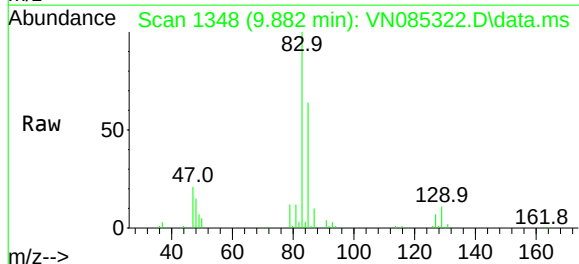
VSTDICCC050

Tgt Ion:	83	Resp:	140475
Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.0	76.4
127	7.2	5.8	8.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#48

Methyl methacrylate

Concen: 52.885 ug/l

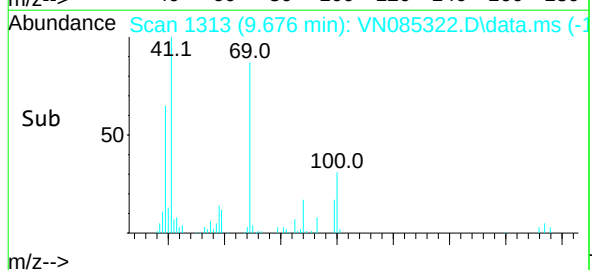
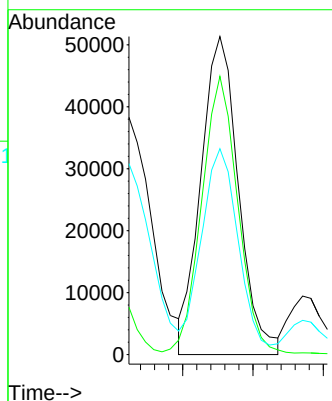
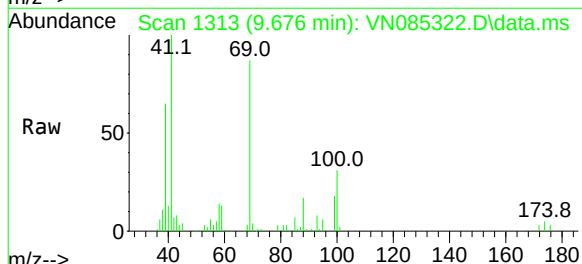
RT: 9.676 min Scan# 1313

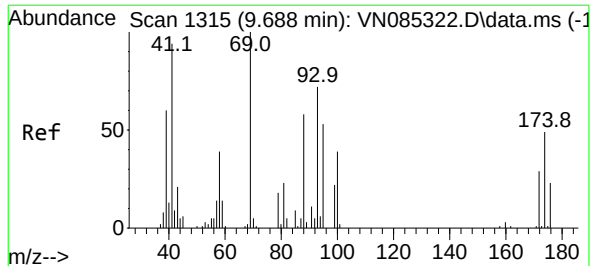
Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

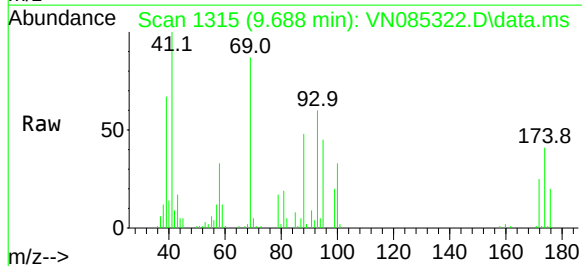
Tgt Ion:	41	Resp:	95506
Ion	Ratio	Lower	Upper
41	100		
69	84.6	67.7	101.5
39	64.0	51.2	76.8





#49
1,4-Dioxane
Concen: 1099.805 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

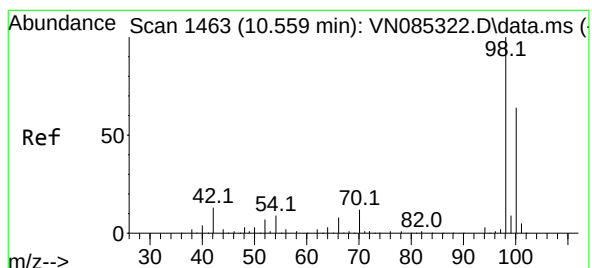
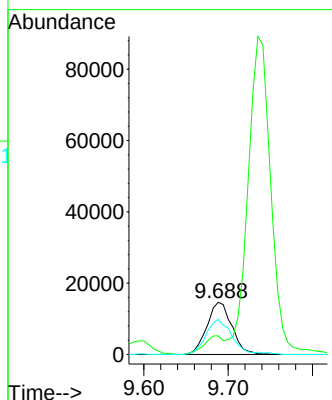
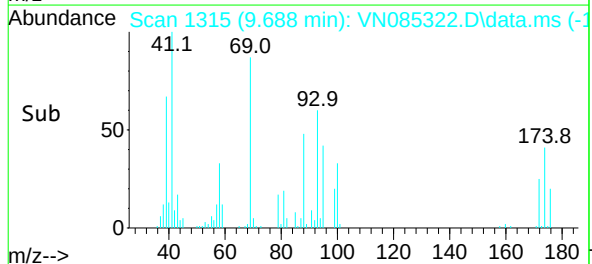
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 88 Resp: 29967
Ion Ratio Lower Upper
88 100
43 27.6 22.1 33.1
58 70.9 56.7 85.1

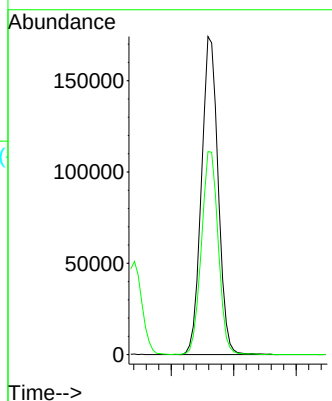
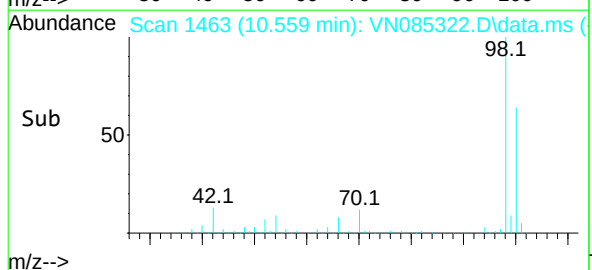
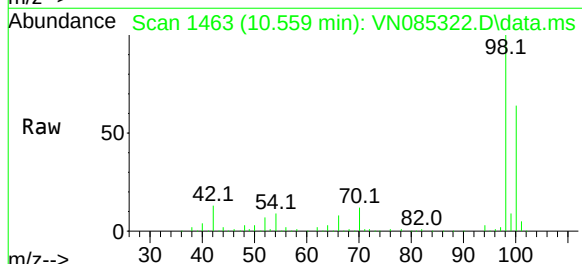
Manual Integrations
APPROVED

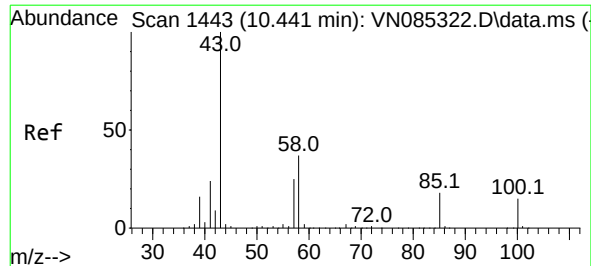
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#50
Toluene-d8
Concen: 50.695 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 98 Resp: 323100
Ion Ratio Lower Upper
98 100
100 64.4 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 258.422 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 604417

Ion Ratio Lower Upper

43 100

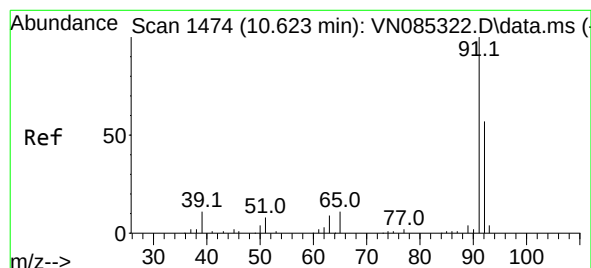
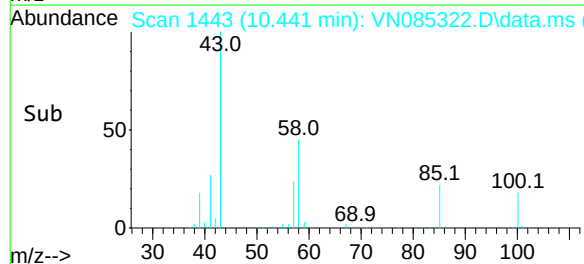
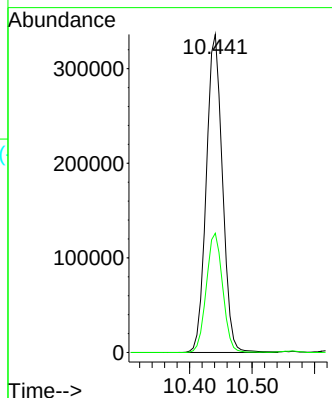
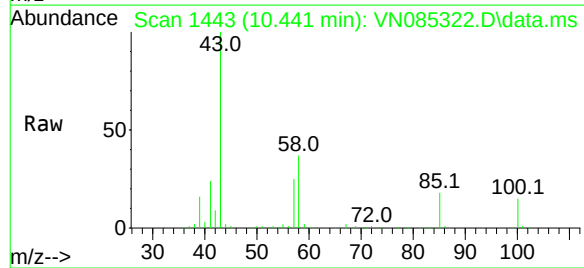
58 37.9 30.3 45.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#52

Toluene

Concen: 51.469 ug/l

RT: 10.623 min Scan# 1474

Delta R.T. 0.000 min

Lab File: VN085322.D

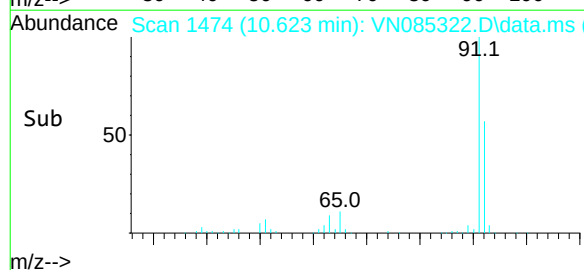
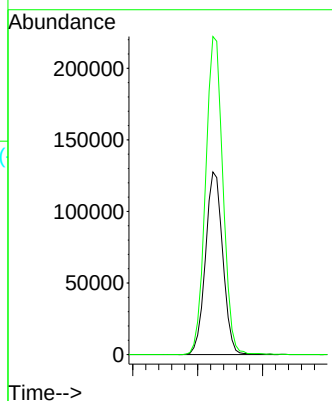
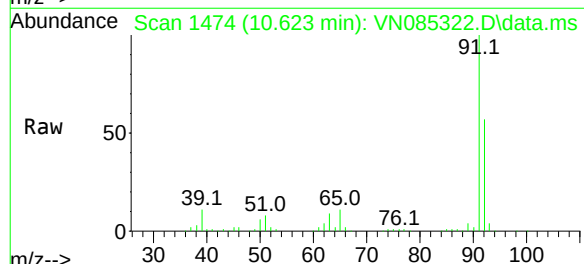
Acq: 27 Dec 2024 10:50

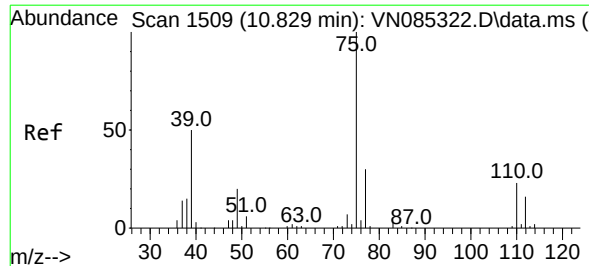
Tgt Ion: 92 Resp: 235625

Ion Ratio Lower Upper

92 100

91 175.3 140.2 210.4





#53

t-1,3-Dichloropropene

Concen: 53.087 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 147289

Ion Ratio Lower Upper

75 100

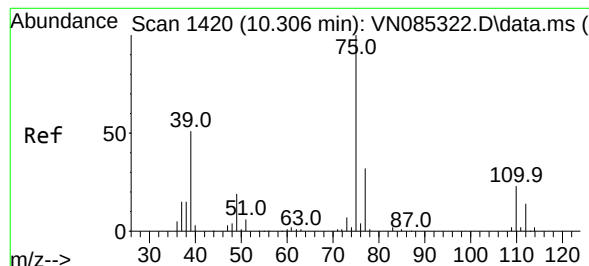
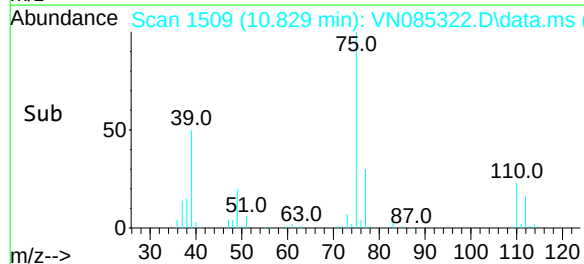
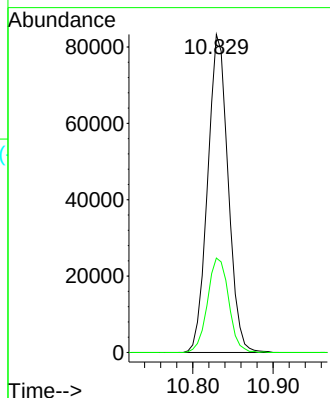
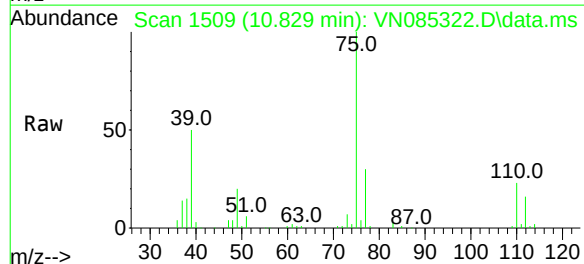
77 29.7 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#54

cis-1,3-Dichloropropene

Concen: 51.536 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

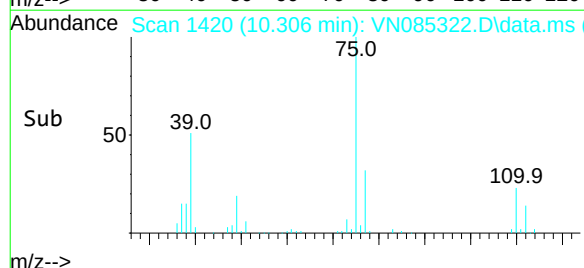
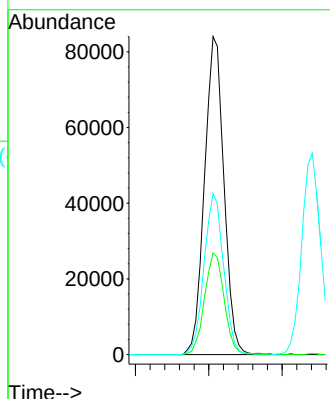
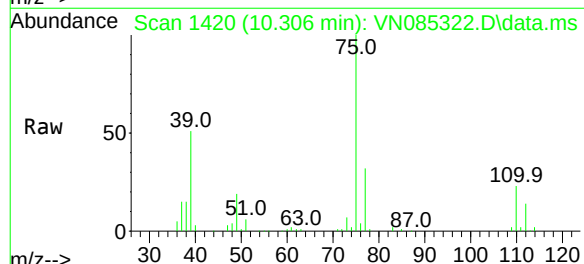
Tgt Ion: 75 Resp: 154618

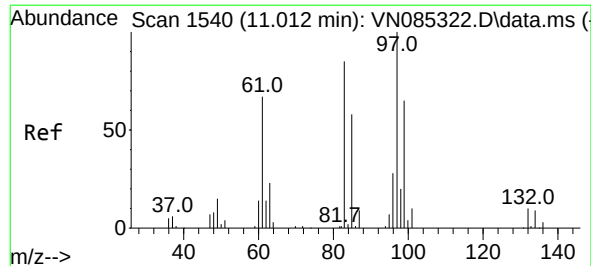
Ion Ratio Lower Upper

75 100

77 31.9 25.5 38.3

39 50.6 40.5 60.7





#55

1,1,2-Trichloroethane

Concen: 49.329 ug/l

RT: 11.012 min Scan# 15

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 85262

Ion Ratio Lower Upper

97 100

83 84.6 67.7 101.5

85 57.8 46.2 69.4

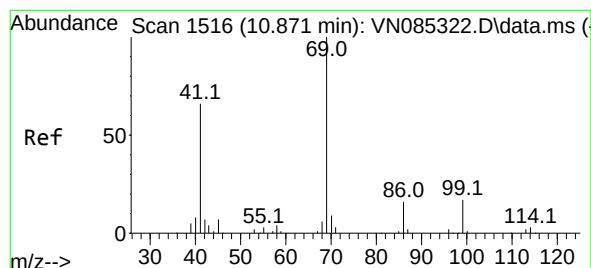
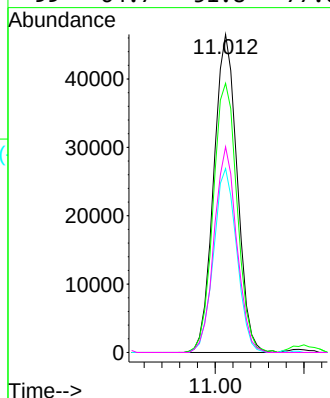
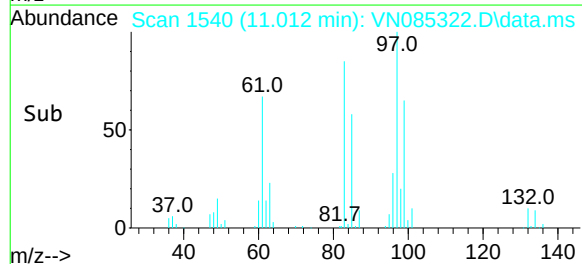
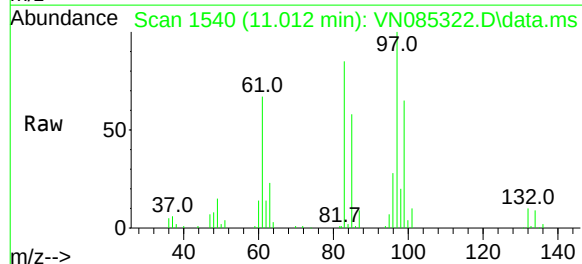
99 64.7 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#56

Ethyl methacrylate

Concen: 55.599 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

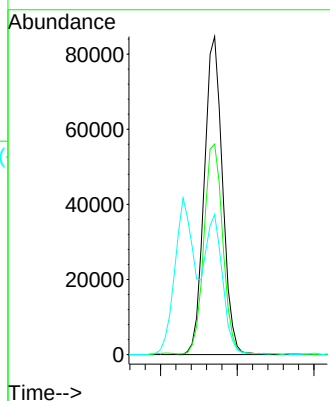
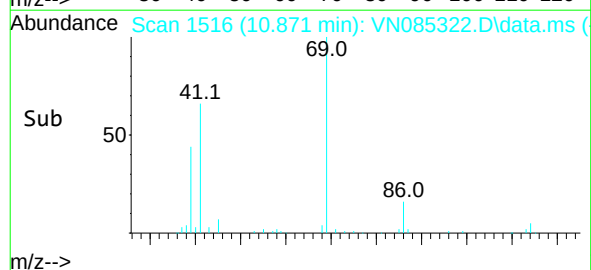
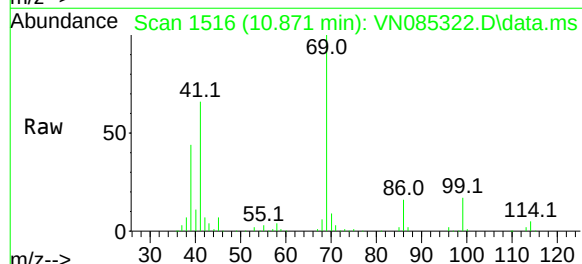
Tgt Ion: 69 Resp: 139960

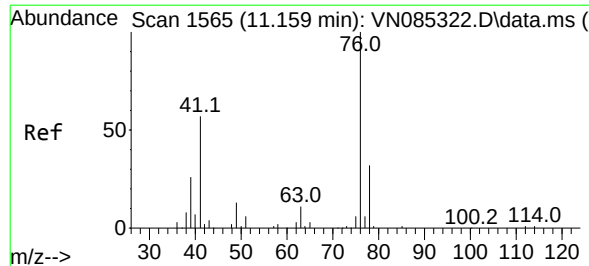
Ion Ratio Lower Upper

69 100

41 67.9 54.3 81.5

39 40.0 32.0 48.0





#57

1,3-Dichloropropane

Concen: 50.893 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 154391

Ion Ratio Lower Upper

76 100

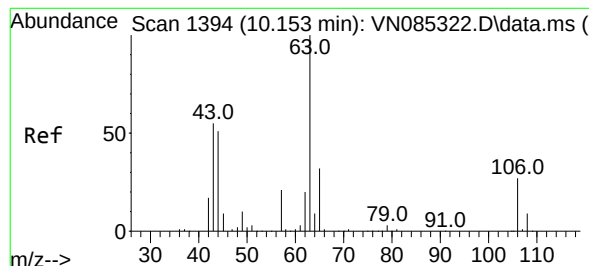
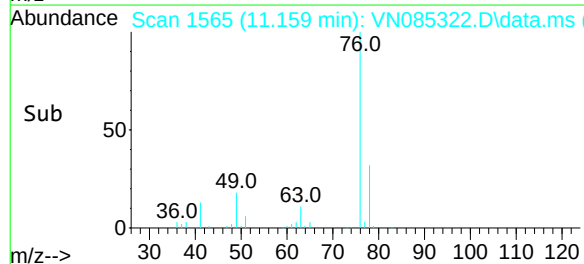
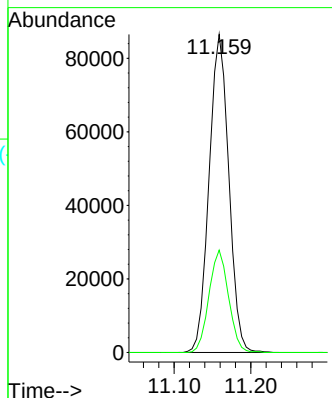
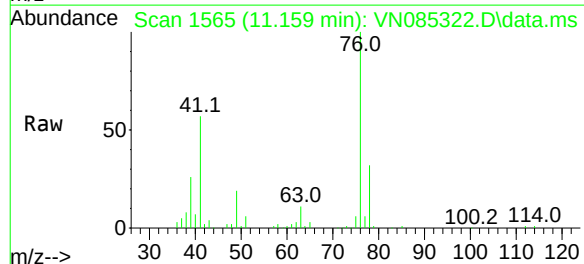
78 31.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#58

2-Chloroethyl Vinyl ether

Concen: 276.695 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VN085322.D

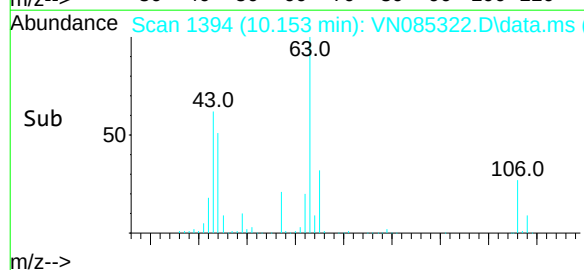
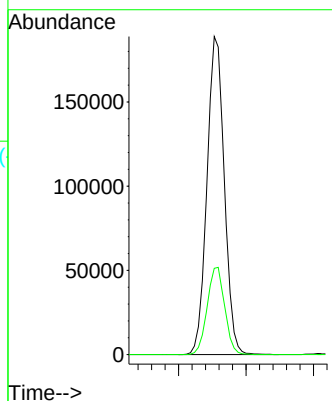
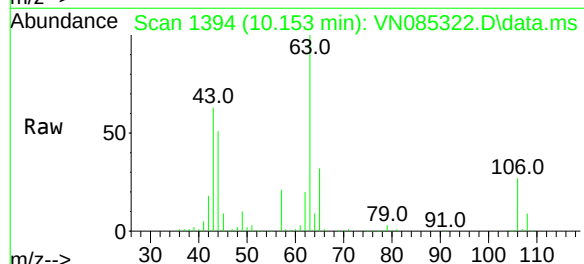
Acq: 27 Dec 2024 10:50

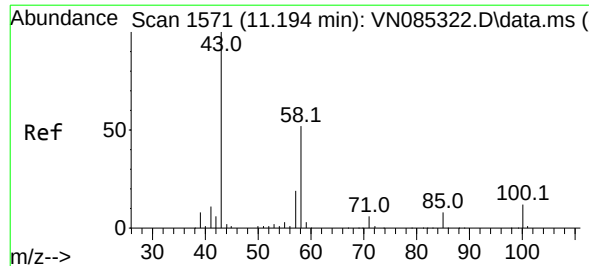
Tgt Ion: 63 Resp: 336991

Ion Ratio Lower Upper

63 100

106 27.6 22.1 33.1





#59

2-Hexanone

Concen: 263.862 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 428174

Ion Ratio Lower Upper

43 100

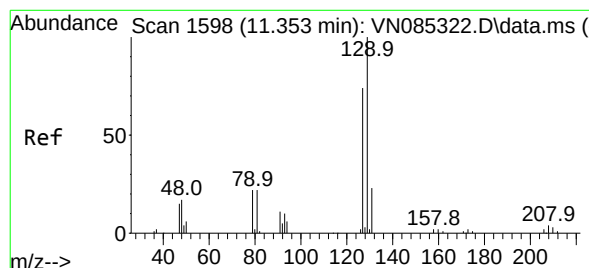
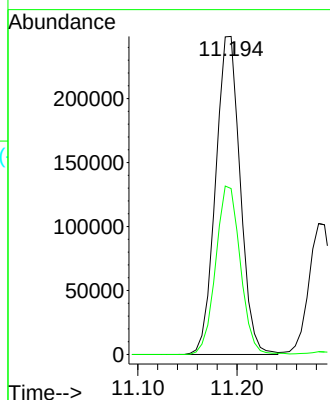
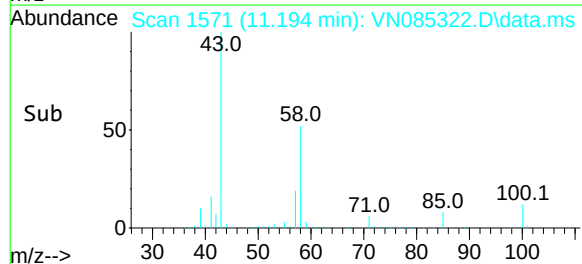
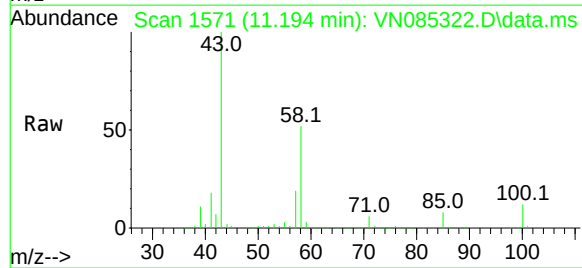
58 53.0 26.5 79.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#60

Dibromochloromethane

Concen: 52.999 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085322.D

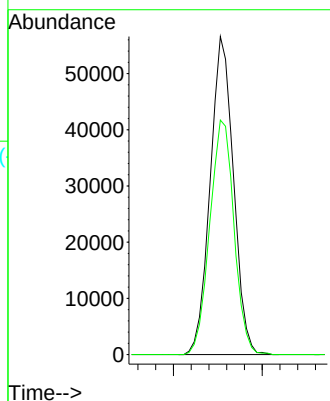
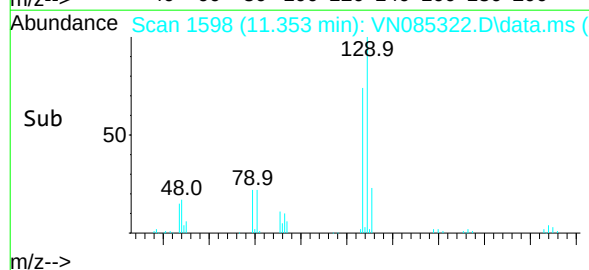
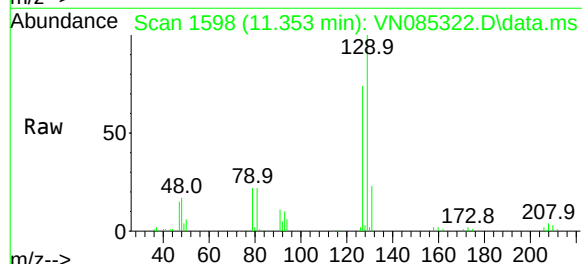
Acq: 27 Dec 2024 10:50

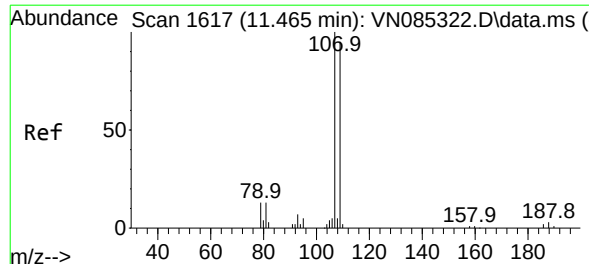
Tgt Ion:129 Resp: 103179

Ion Ratio Lower Upper

129 100

127 76.6 38.3 114.9





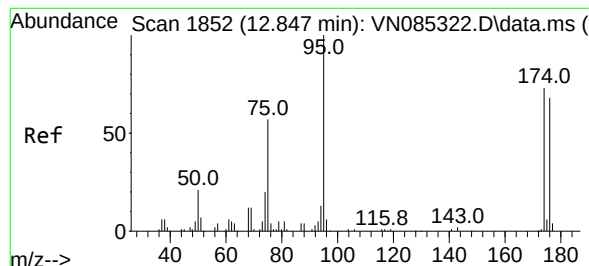
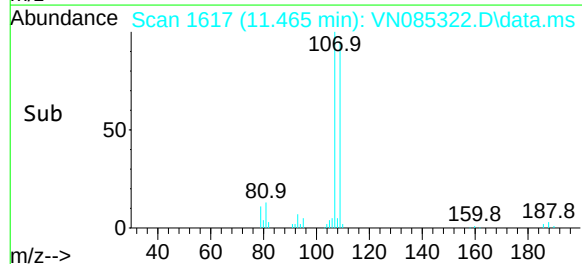
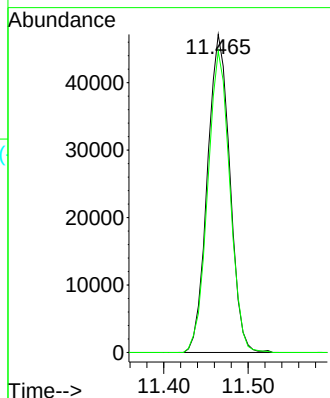
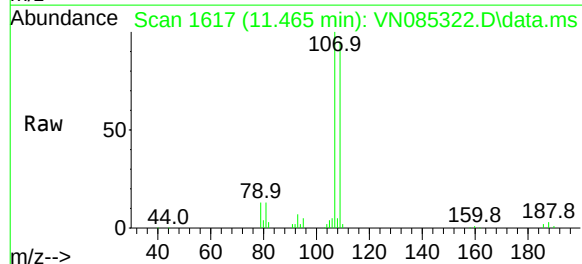
#61
1,2-Dibromoethane
Concen: 50.969 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 107 Resp: 87157
Ion Ratio Lower Upper
107 100
109 93.6 74.9 112.3

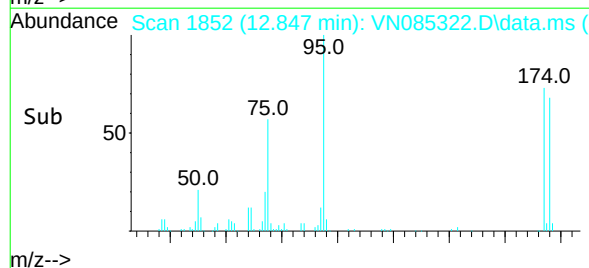
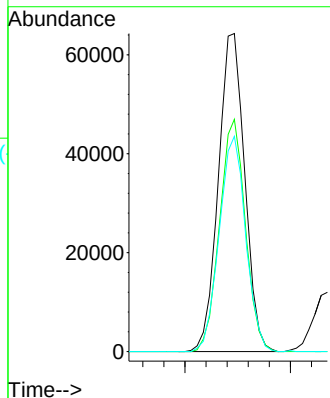
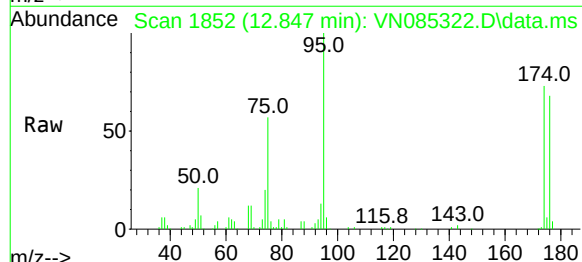
Manual Integrations
APPROVED

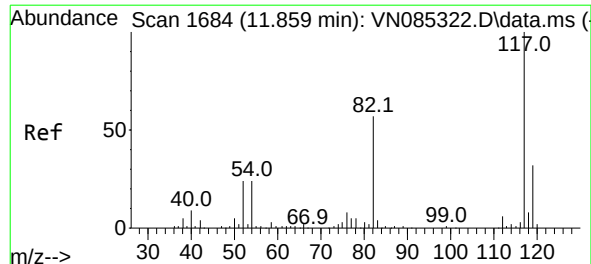
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#62
4-Bromofluorobenzene
Concen: 52.700 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 95 Resp: 111548
Ion Ratio Lower Upper
95 100
174 71.6 0.0 143.2
176 67.9 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 1684

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:117 Resp: 240680

Ion Ratio Lower Upper

117 100

82 57.1 45.7 68.5

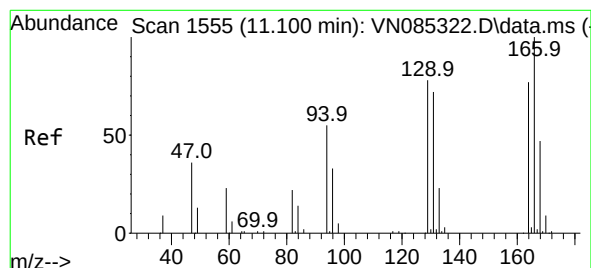
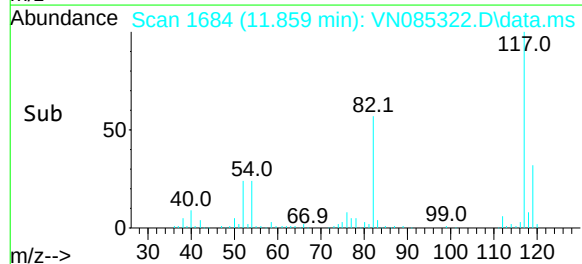
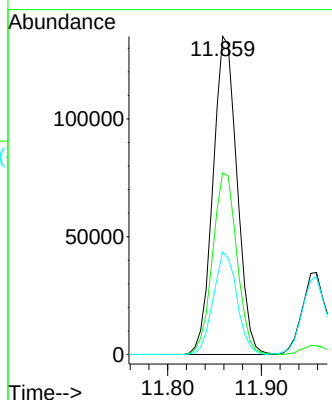
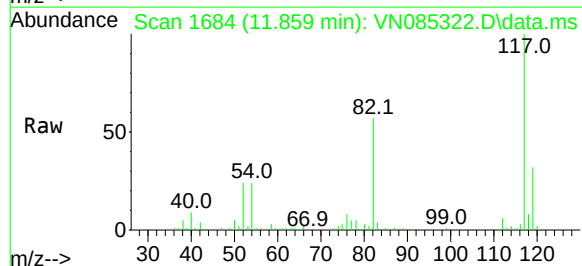
119 32.3 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#64

Tetrachloroethene

Concen: 49.270 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:164 Resp: 75140

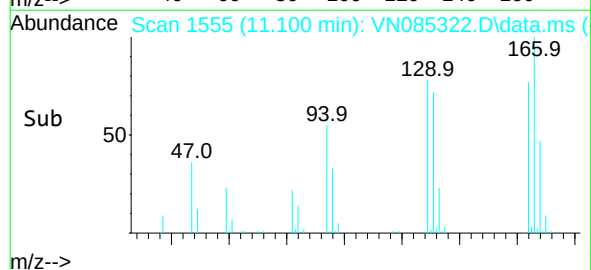
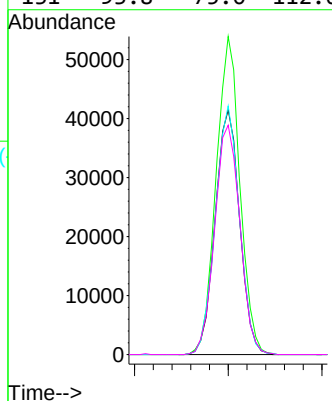
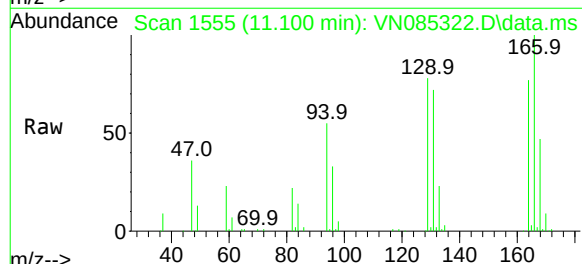
Ion Ratio Lower Upper

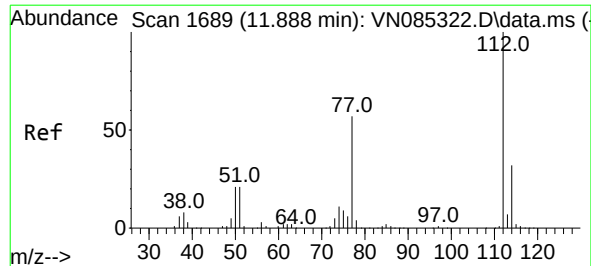
164 100

166 130.0 104.0 156.0

129 101.6 81.3 121.9

131 93.8 75.0 112.6





#65

Chlorobenzene

Concen: 48.550 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 252514

Ion Ratio Lower Upper

112 100

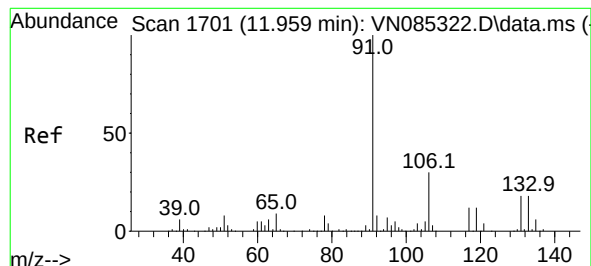
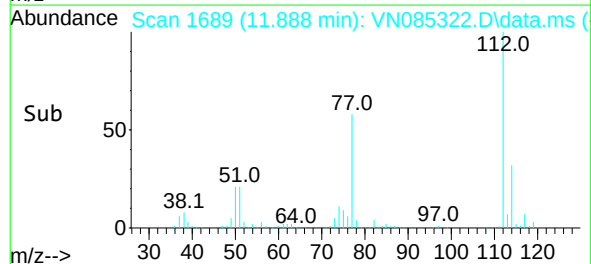
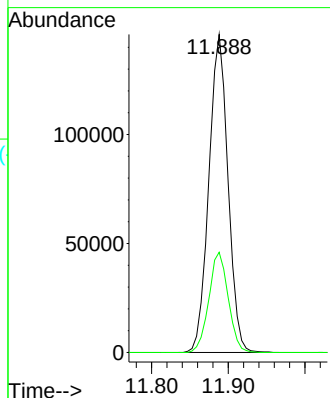
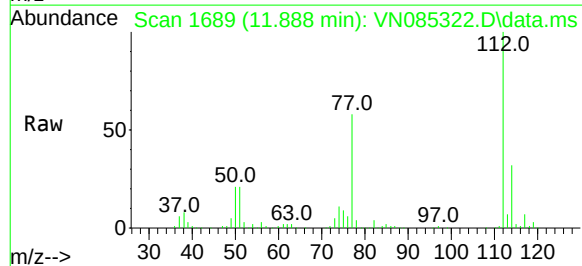
114 31.5 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 50.030 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

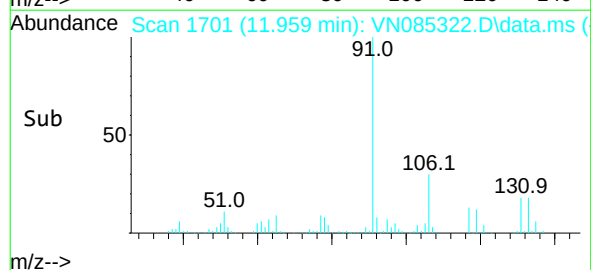
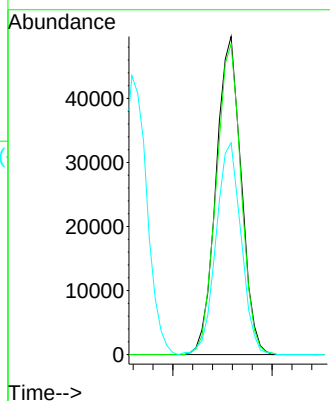
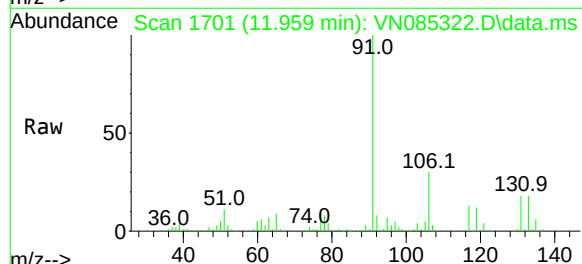
Tgt Ion:131 Resp: 87333

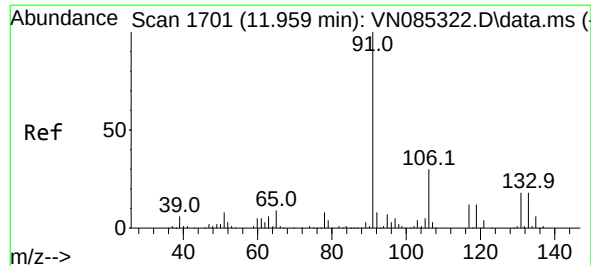
Ion Ratio Lower Upper

131 100

133 96.6 48.3 144.9

119 66.7 33.4 100.1





#67

Ethyl Benzene

Concen: 52.228 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 451752

Ion Ratio Lower Upper

91 100

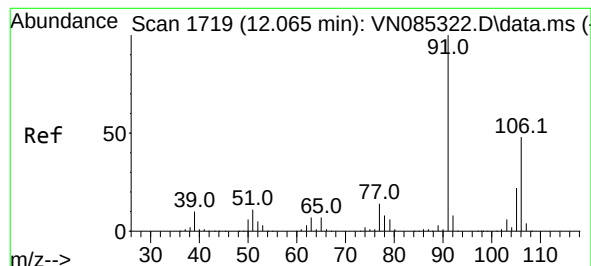
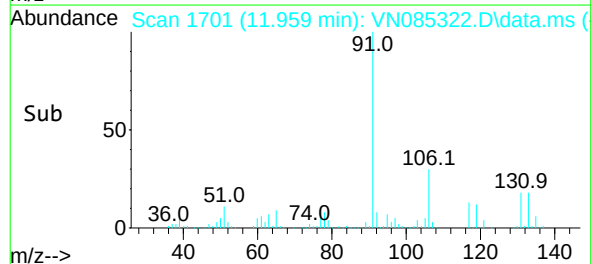
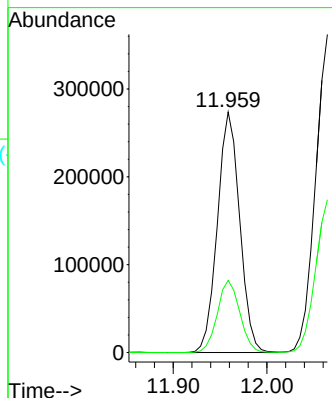
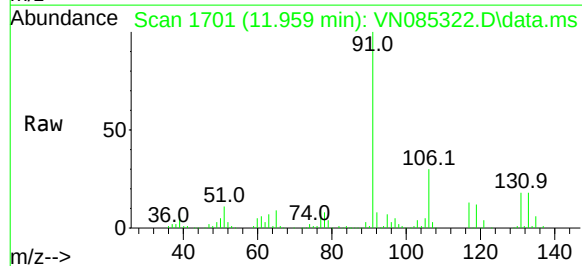
106 30.0 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#68

m/p-Xylenes

Concen: 107.860 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085322.D

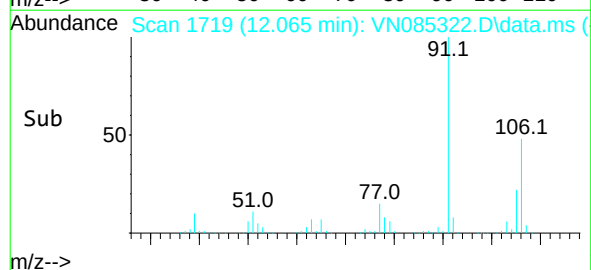
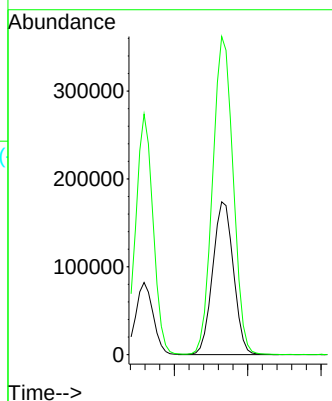
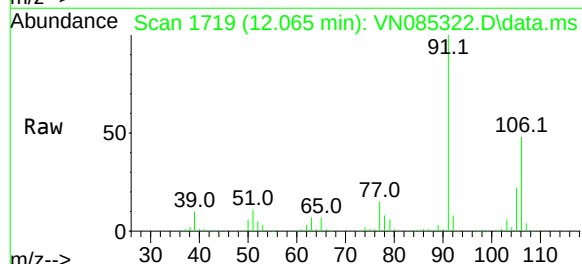
Acq: 27 Dec 2024 10:50

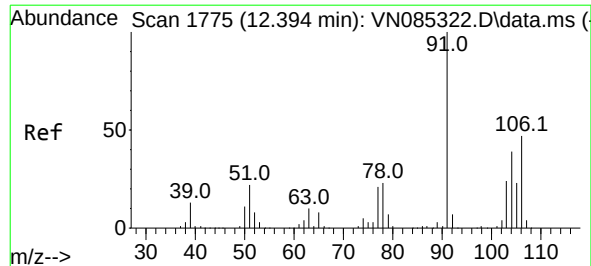
Tgt Ion:106 Resp: 341420

Ion Ratio Lower Upper

106 100

91 206.5 165.2 247.8





#69

o-Xylene

Concen: 54.121 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 165724

Ion Ratio Lower Upper

106 100

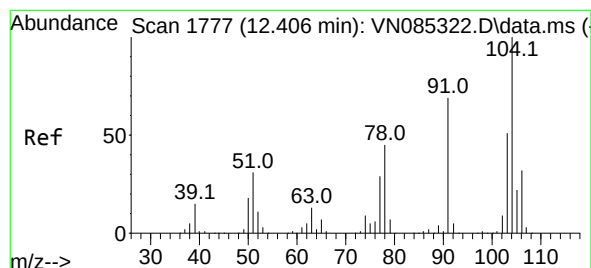
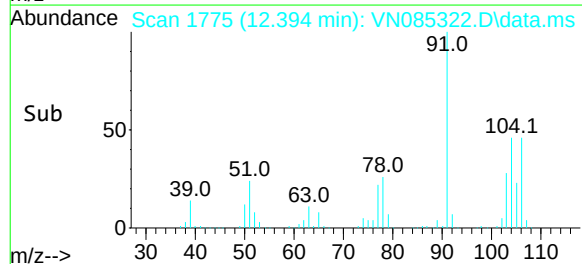
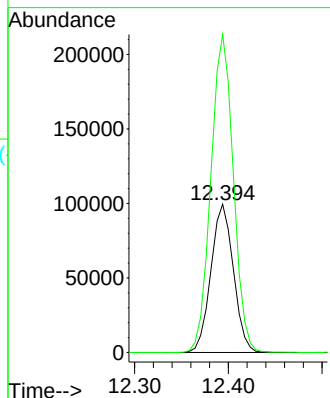
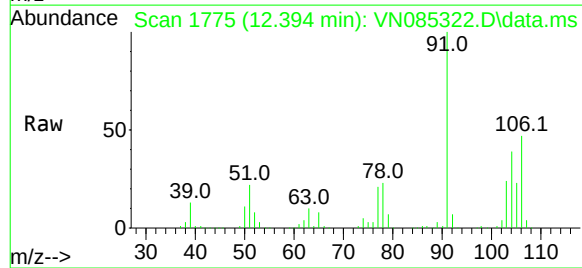
91 214.5 107.3 321.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#70

Styrene

Concen: 55.616 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

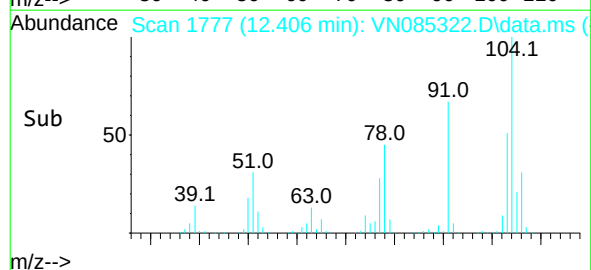
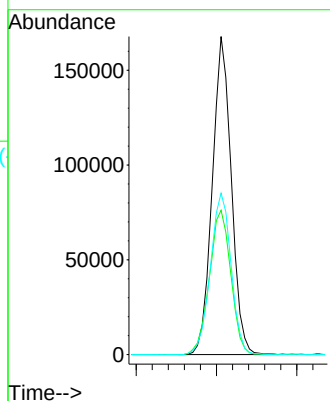
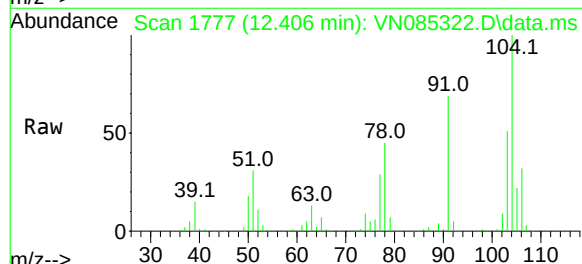
Tgt Ion:104 Resp: 276012

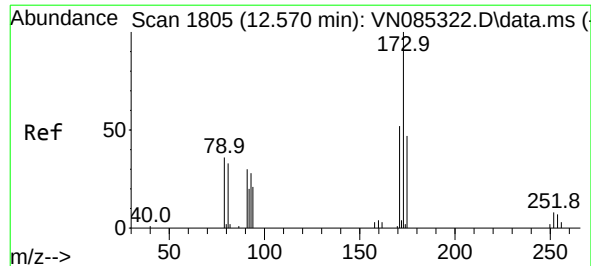
Ion Ratio Lower Upper

104 100

78 50.9 40.7 61.1

103 55.1 44.1 66.1





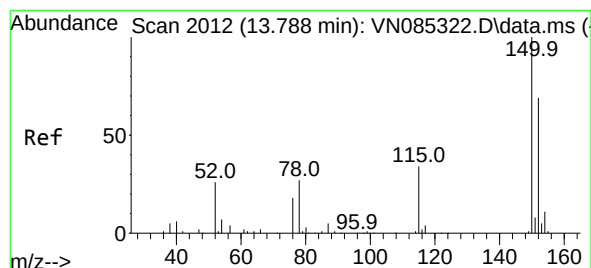
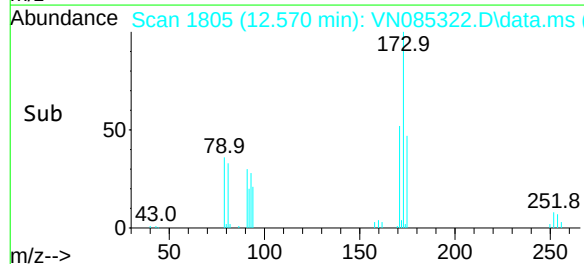
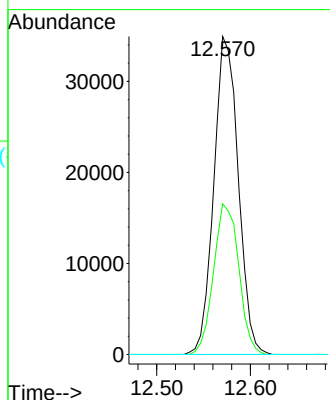
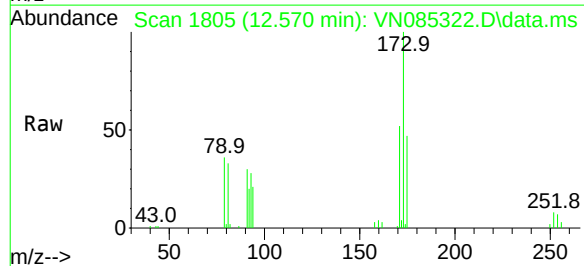
#71
Bromoform
Concen: 52.330 ug/l
RT: 12.570 min Scan# 1805
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 63268
Ion Ratio Lower Upper
173 100
175 48.9 24.4 73.4
254 0.0 0.0 0.0

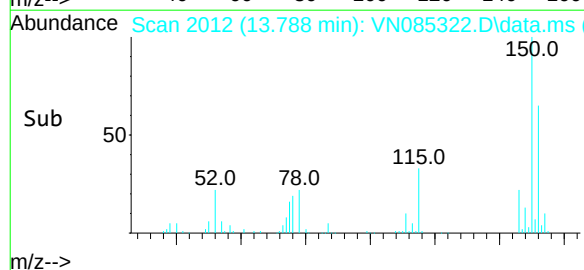
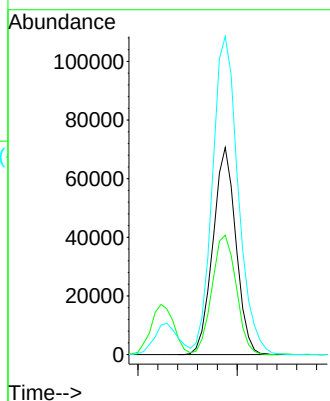
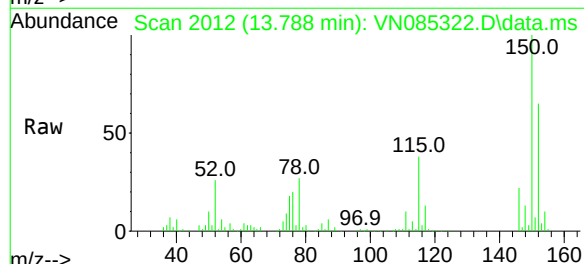
Manual Integrations
APPROVED

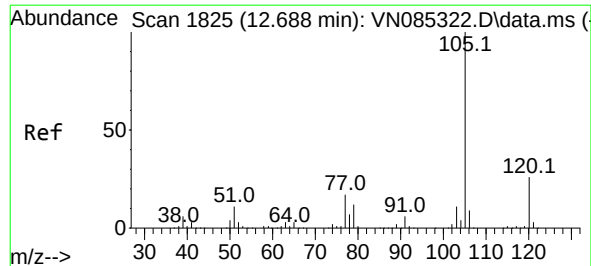
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion:152 Resp: 113462
Ion Ratio Lower Upper
152 100
115 60.9 30.4 91.3
150 172.5 0.0 345.0





#73

Isopropylbenzene

Concen: 51.888 ug/l

RT: 12.688 min Scan# 1825

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 105 Resp: 423362

Ion Ratio Lower Upper

105 100

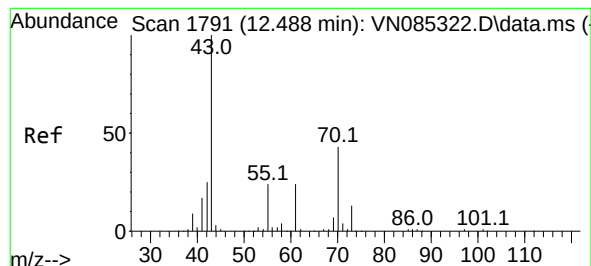
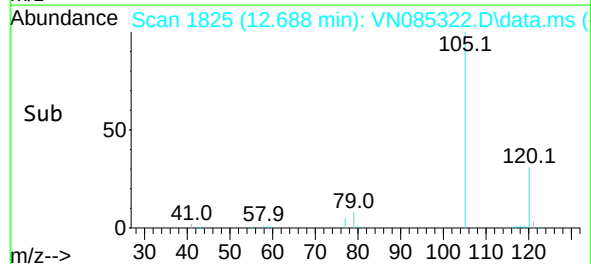
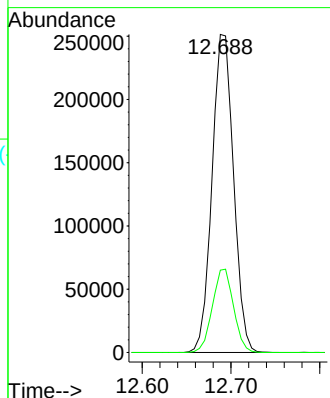
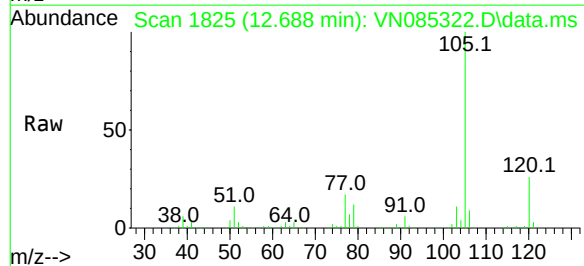
120 25.7 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#74

N-ethyl acetate

Concen: 52.669 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion: 43 Resp: 183943

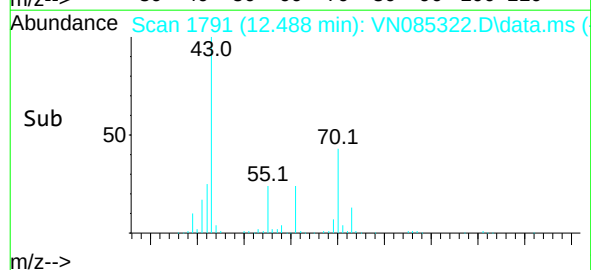
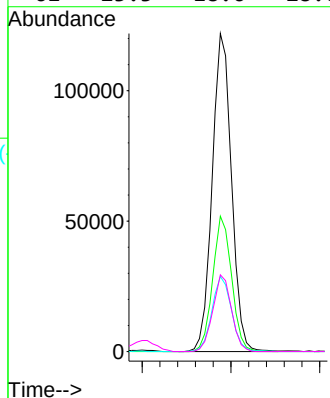
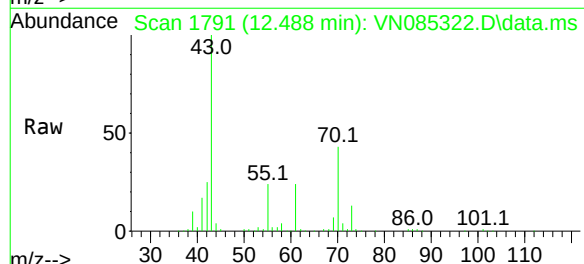
Ion Ratio Lower Upper

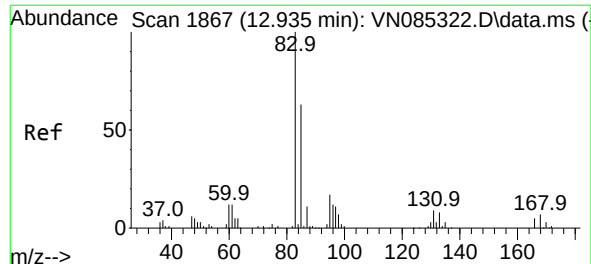
43 100

70 41.7 33.4 50.0

55 24.0 19.2 28.8

61 23.3 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 46.441 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

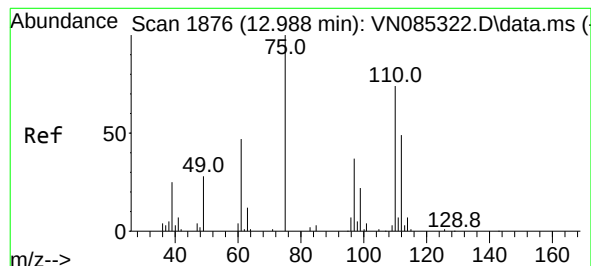
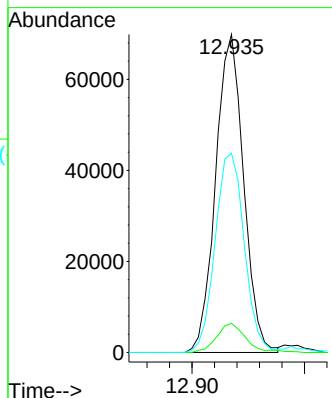
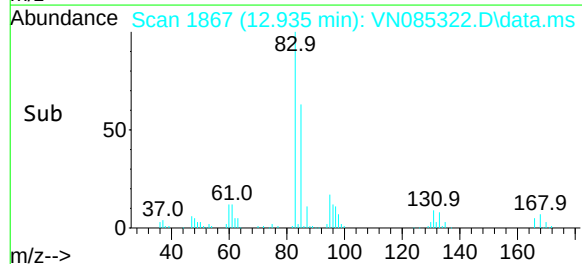
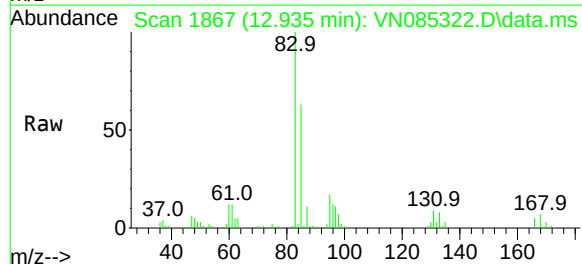
ClientSampleId :

VSTDICCC050

Tgt Ion:	83	Resp:	120681
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	65.3	32.6	98.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#76

1,2,3-Trichloropropane

Concen: 43.170 ug/l m

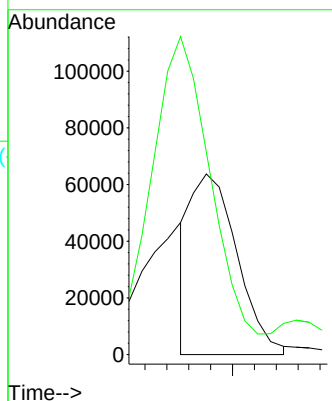
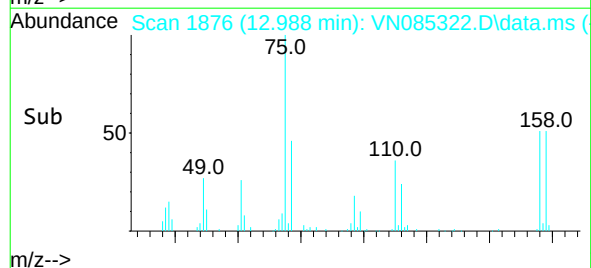
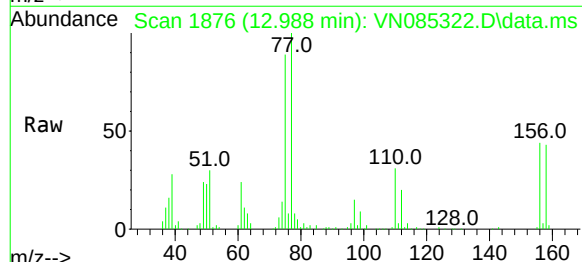
RT: 12.988 min Scan# 1876

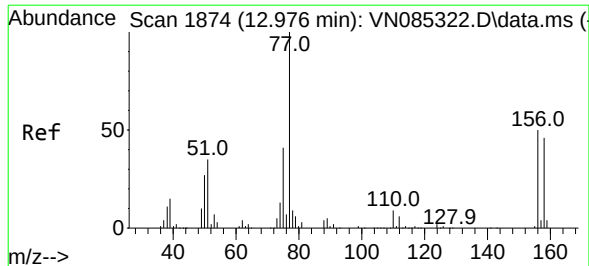
Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:	75	Resp:	94097
Ion	Ratio	Lower	Upper
75	100		
77	230.5	98.1	294.3





#77

Bromobenzene

Concen: 47.058 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

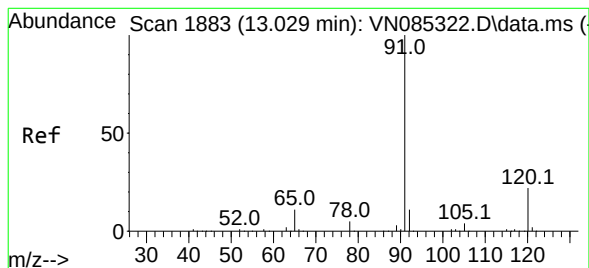
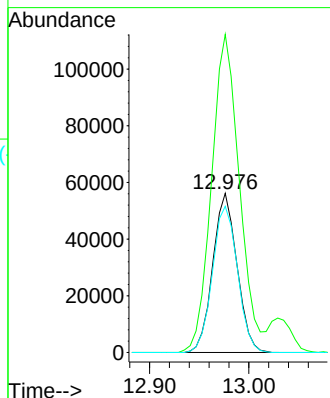
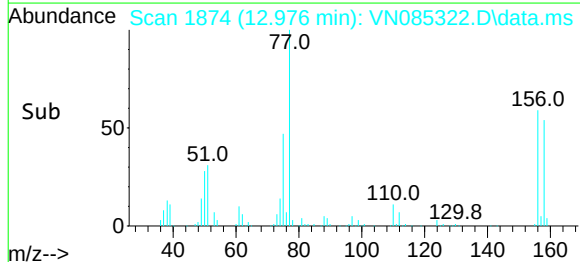
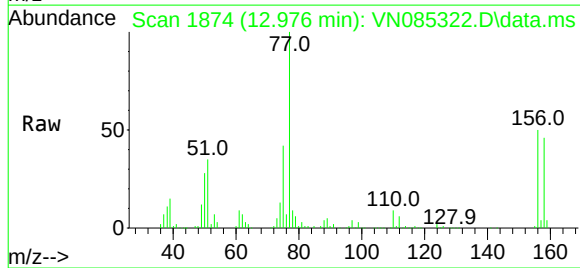
VSTDICCC050

Tgt Ion:	156	Resp:	95126
Ion Ratio	Lower	Upper	
156	100		
77	228.0	114.0	342.0
158	95.2	47.6	142.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#78

n-propylbenzene

Concen: 52.403 ug/l

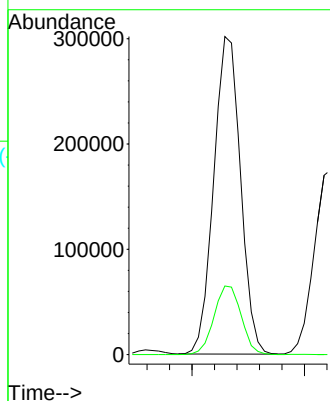
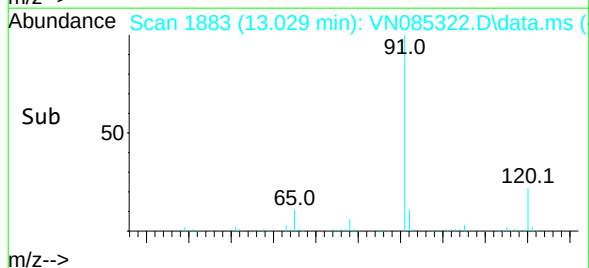
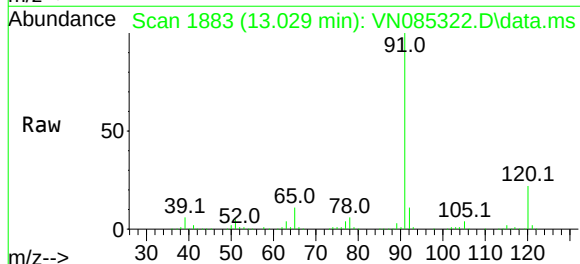
RT: 13.029 min Scan# 1883

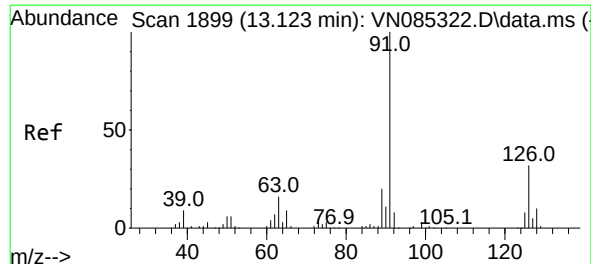
Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:	91	Resp:	498392
Ion Ratio	Lower	Upper	
91	100		
120	21.9	10.9	32.9





#79

2-Chlorotoluene

Concen: 49.970 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 299107

Ion Ratio Lower Upper

91 100

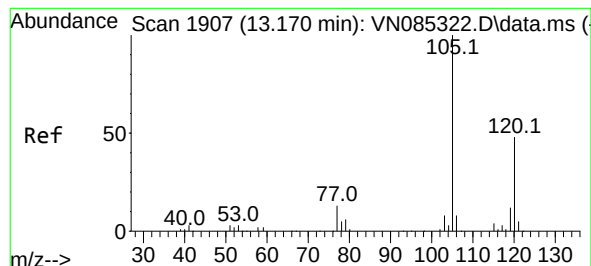
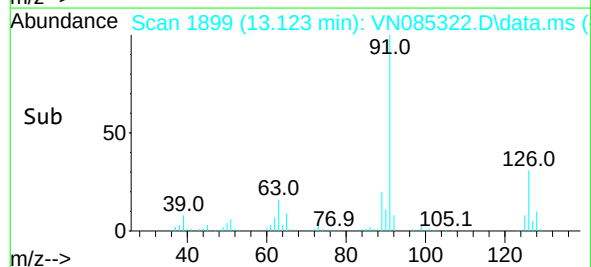
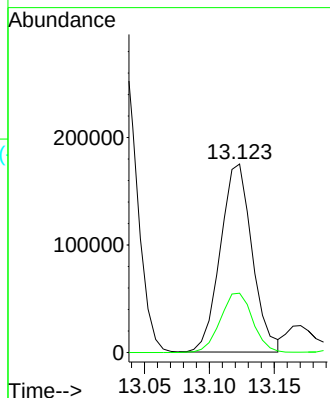
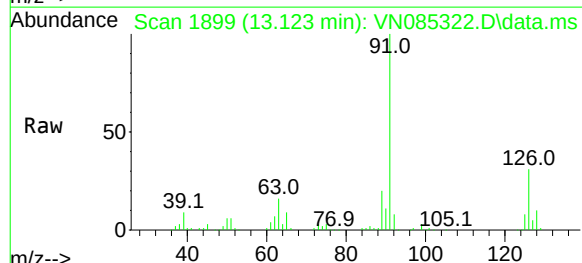
126 32.0 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#80

1,3,5-Trimethylbenzene

Concen: 52.709 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085322.D

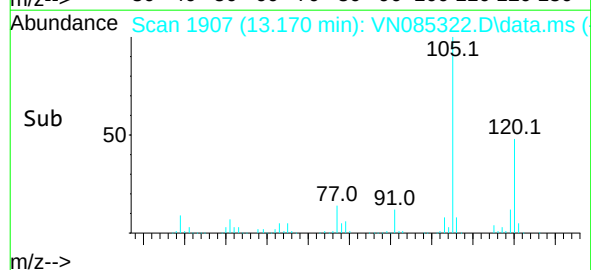
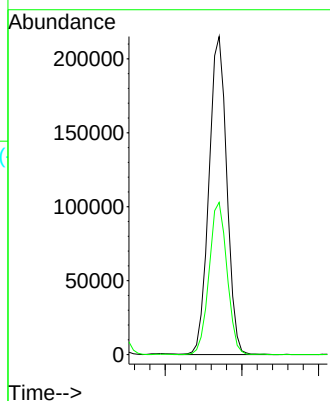
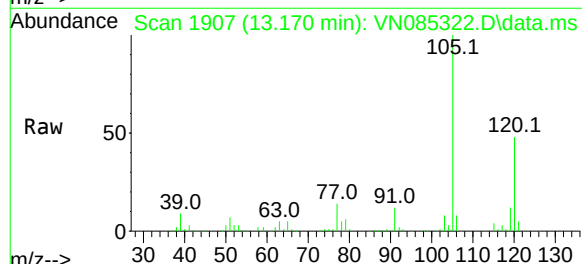
Acq: 27 Dec 2024 10:50

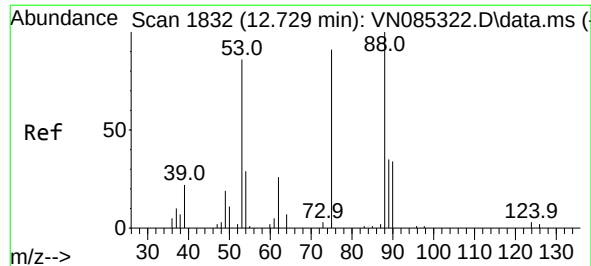
Tgt Ion:105 Resp: 347857

Ion Ratio Lower Upper

105 100

120 48.0 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 51.950 ug/l m

RT: 12.729 min Scan# 1832

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

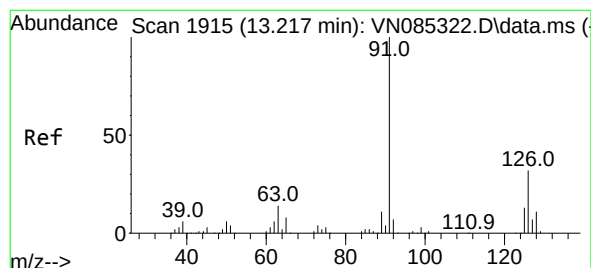
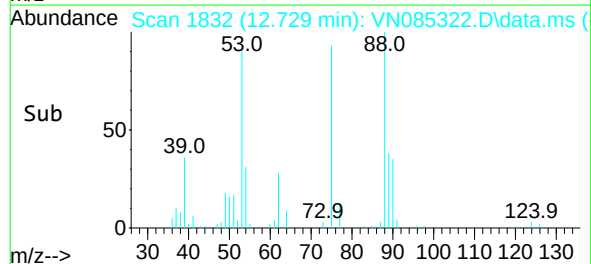
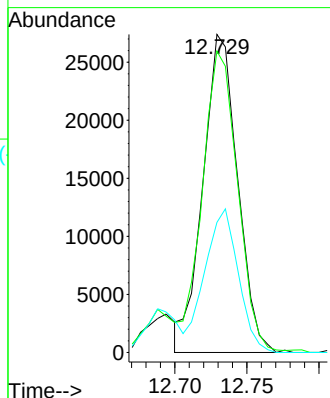
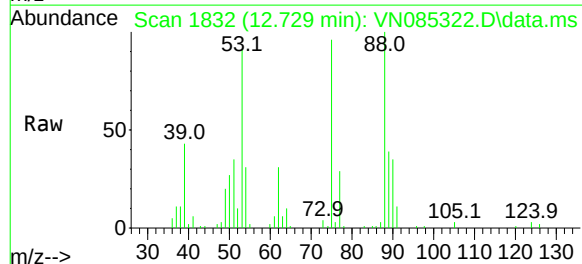
VSTDICCC050

Tgt Ion:	75	Resp:	45749
Ion	Ratio	Lower	Upper
75	100		
53	97.7	80.0	120.0
89	43.8	35.8	53.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#82

4-Chlorotoluene

Concen: 49.717 ug/l

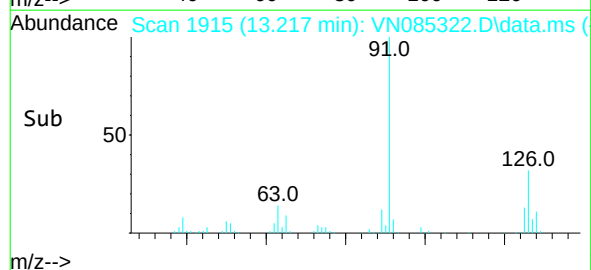
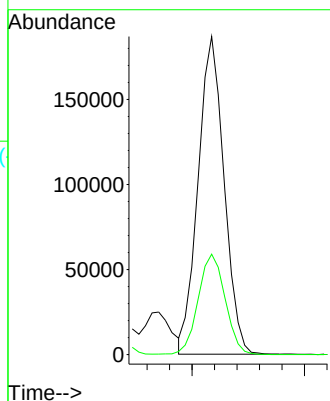
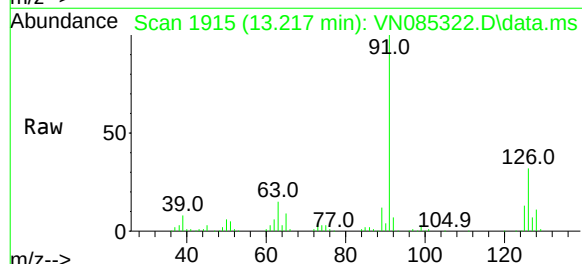
RT: 13.217 min Scan# 1915

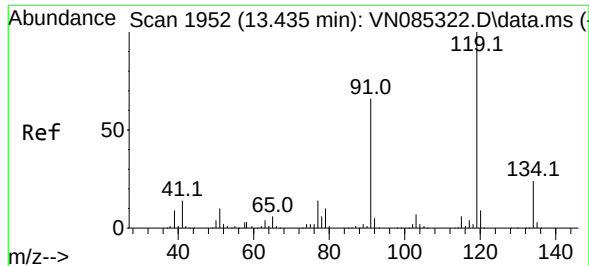
Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:	91	Resp:	299712
Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.4





#83

tert-Butylbenzene

Concen: 51.541 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

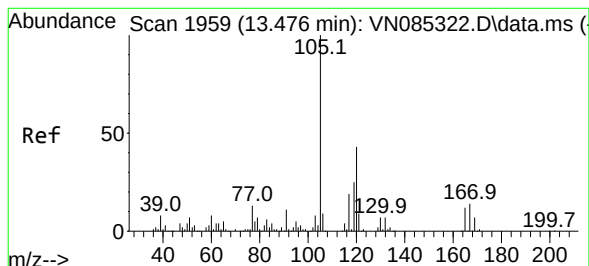
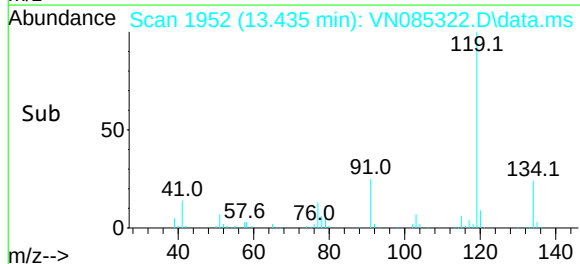
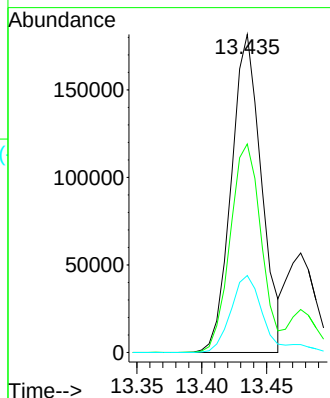
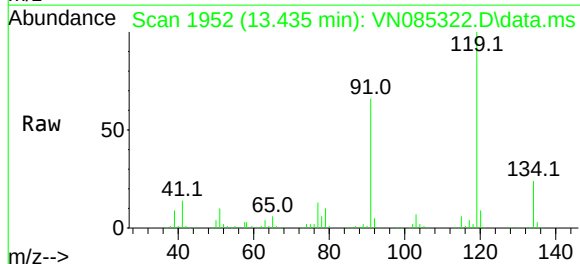
Tgt Ion:	119	Resp:	294653
Ion Ratio	Lower	Upper	
119	100		
91	67.2	33.6	100.8
134	26.5	13.3	39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#84

1,2,4-Trimethylbenzene

Concen: 53.875 ug/l

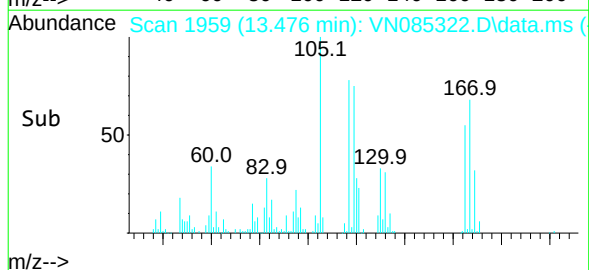
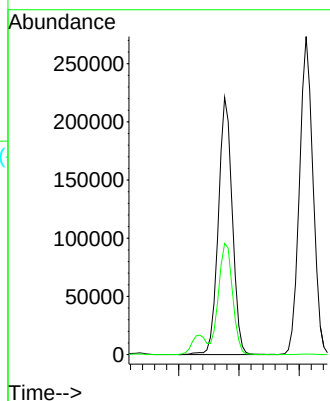
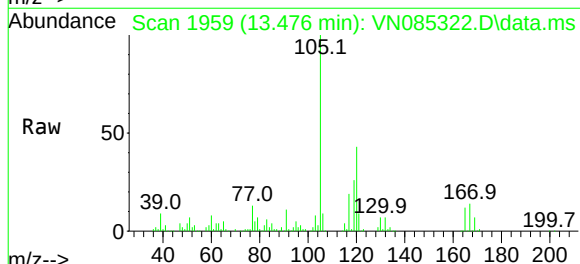
RT: 13.476 min Scan# 1959

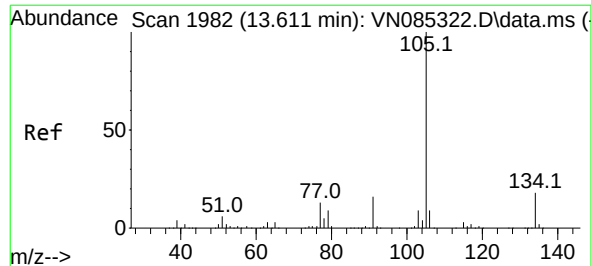
Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:	105	Resp:	354037
Ion Ratio	Lower	Upper	
105	100		
120	43.4	21.7	65.1





#85

sec-Butylbenzene

Concen: 53.476 ug/l

RT: 13.611 min Scan# 1982

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 424353

Ion Ratio Lower Upper

105 100

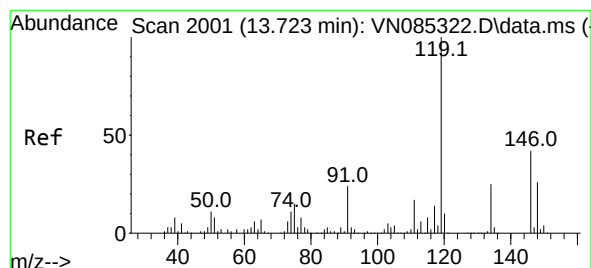
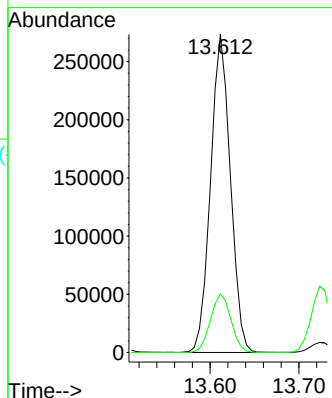
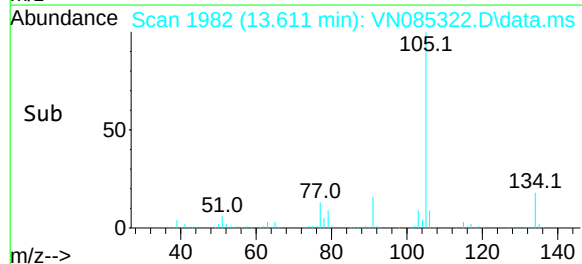
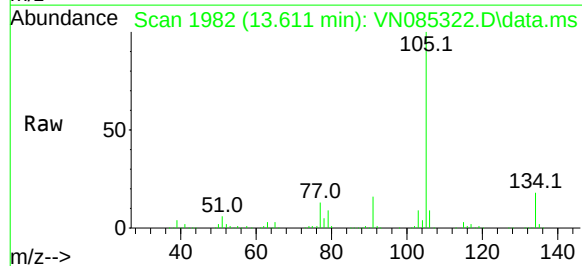
134 18.9 9.4 28.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#86

p-Isopropyltoluene

Concen: 49.276 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

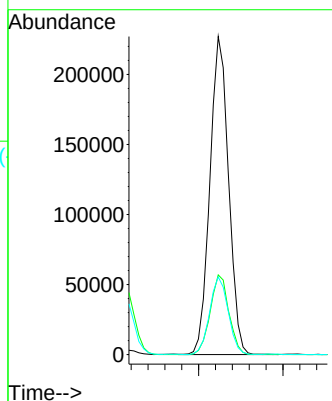
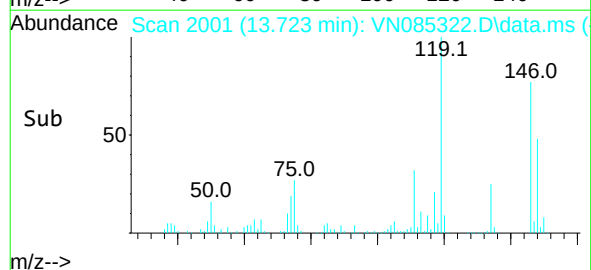
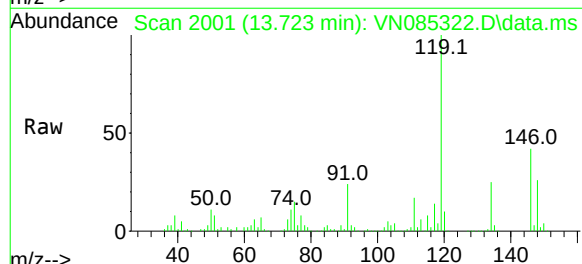
Tgt Ion:119 Resp: 349527

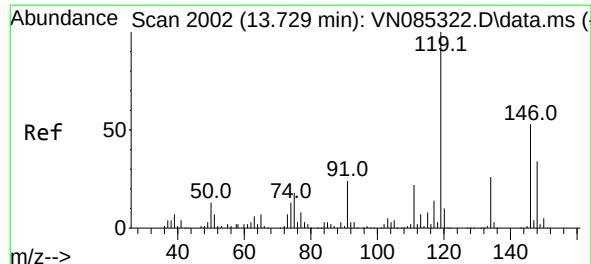
Ion Ratio Lower Upper

119 100

134 25.0 12.5 37.5

91 24.3 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 48.928 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 179301

Ion Ratio Lower Upper

146 100

111 42.6 21.3 63.9

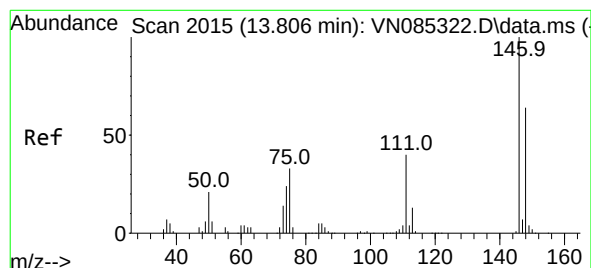
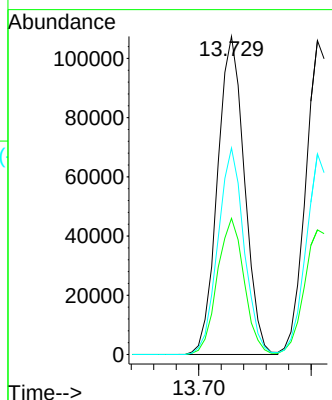
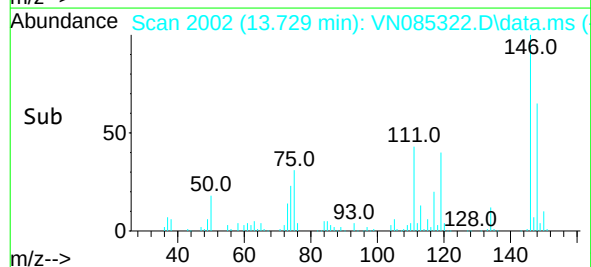
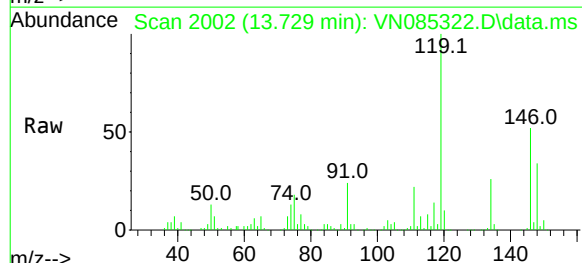
148 63.0 31.5 94.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#88

1,4-Dichlorobenzene

Concen: 47.253 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

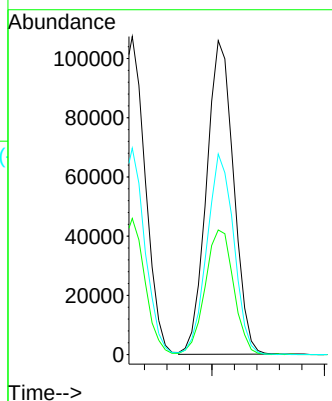
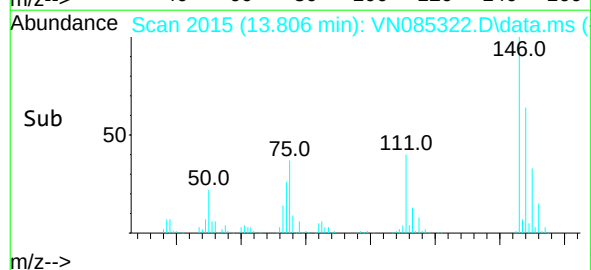
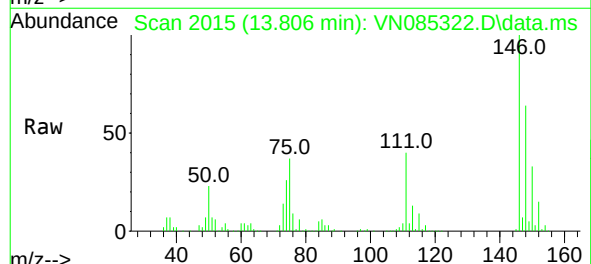
Tgt Ion:146 Resp: 177873

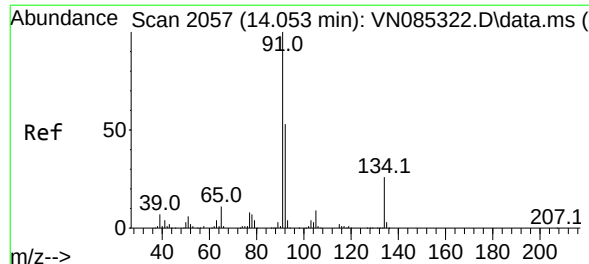
Ion Ratio Lower Upper

146 100

111 41.7 20.8 62.5

148 63.4 31.7 95.1





#89

n-Butylbenzene

Concen: 53.178 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

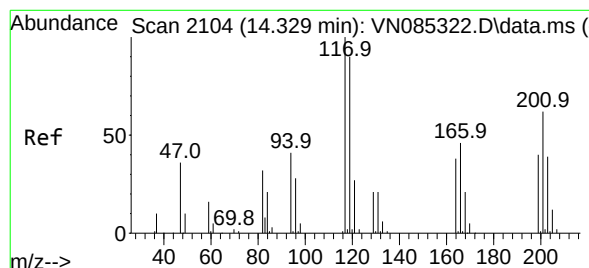
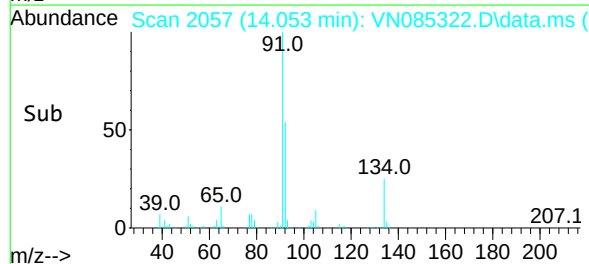
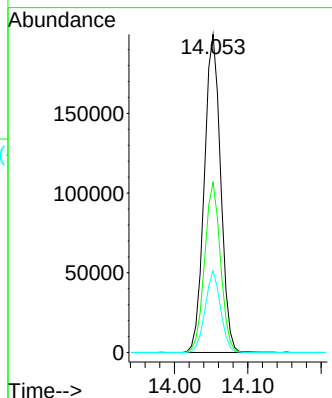
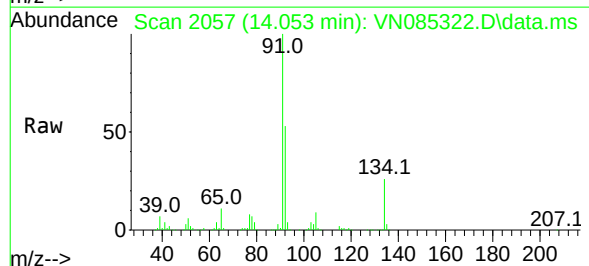
Tgt Ion:	91	Resp:	309010
Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.0	78.0
134	24.2	12.1	36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#90

Hexachloroethane

Concen: 51.976 ug/l

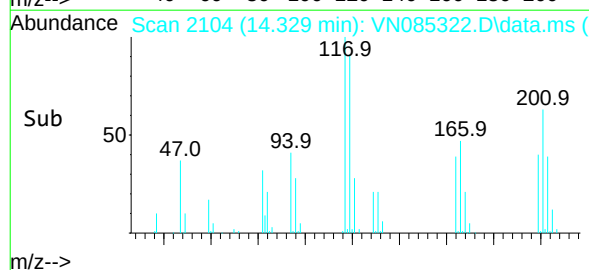
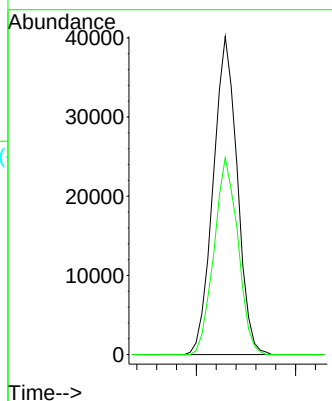
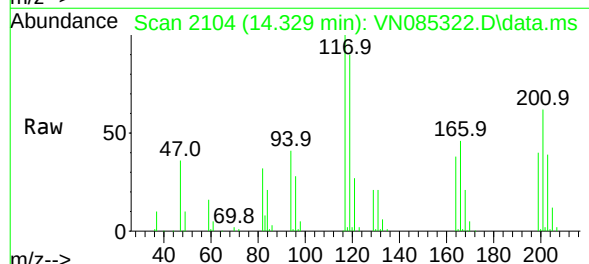
RT: 14.329 min Scan# 2104

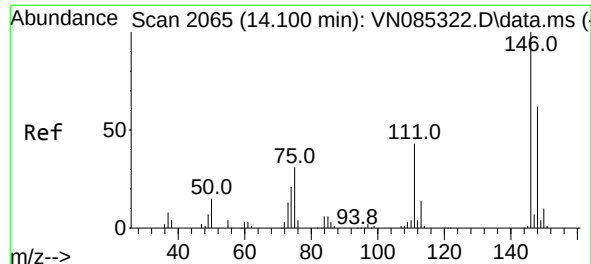
Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:	117	Resp:	67607
Ion	Ratio	Lower	Upper
117	100		
201	61.4	30.7	92.1





#91

1,2-Dichlorobenzene

Concen: 49.173 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

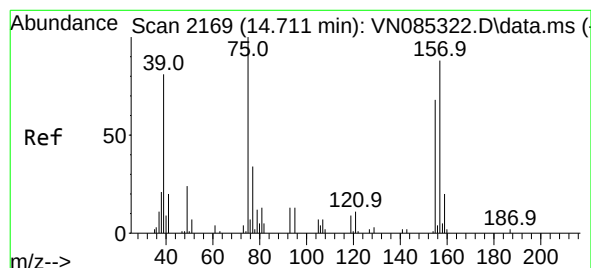
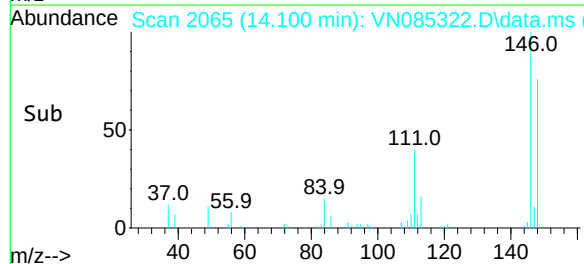
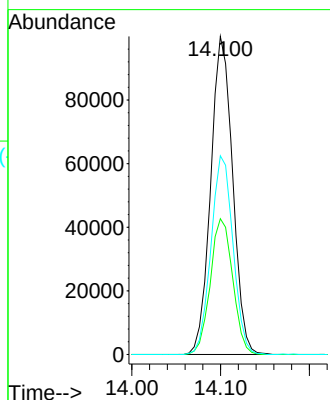
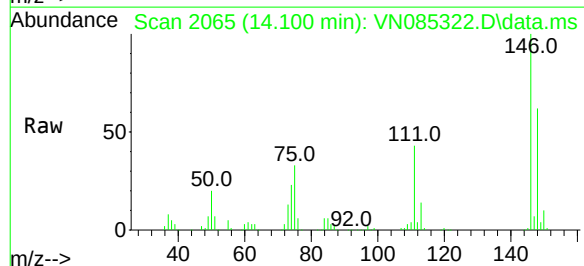
ClientSampleId :

VSTDICCC050

Tgt Ion:	146	Resp:	171657
Ion Ratio	Lower	Upper	
146	100		
111	43.5	21.8	65.3
148	62.8	31.4	94.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 49.627 ug/l

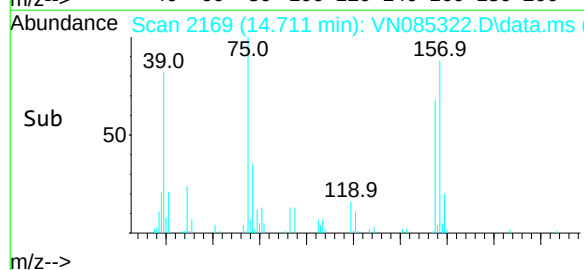
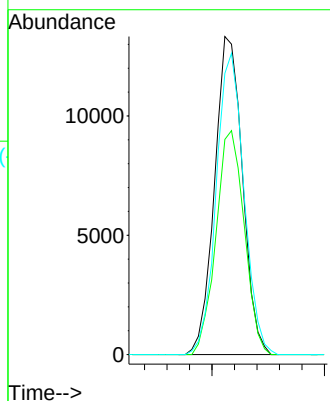
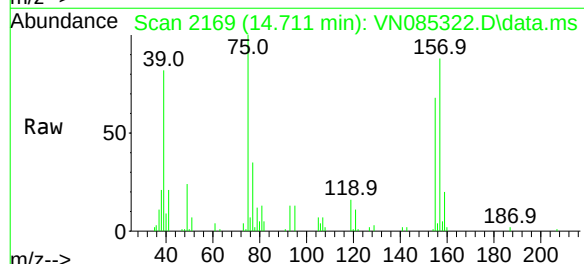
RT: 14.711 min Scan# 2169

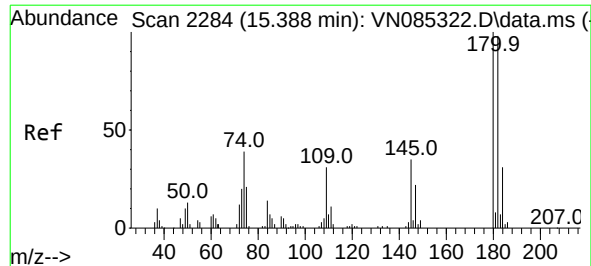
Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:	75	Resp:	22952
Ion Ratio	Lower	Upper	
75	100		
155	71.3	35.6	106.9
157	94.0	47.0	141.0





#93

1,2,4-Trichlorobenzene

Concen: 49.570 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 86363

Ion Ratio Lower Upper

180 100

182 94.4 47.2 141.6

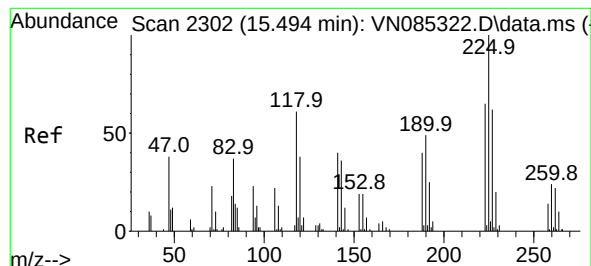
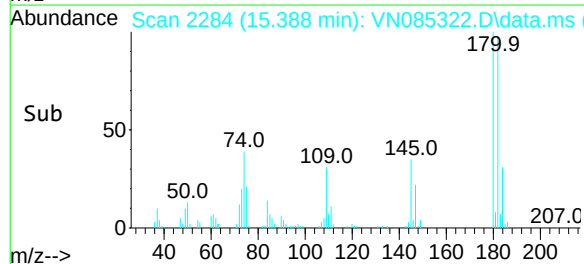
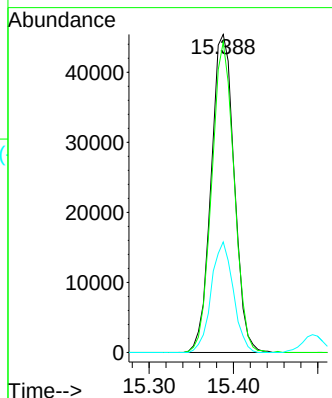
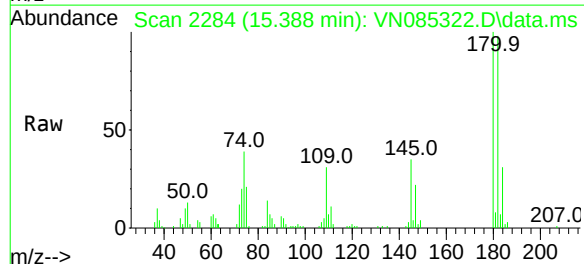
145 33.2 16.6 49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#94

Hexachlorobutadiene

Concen: 44.509 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

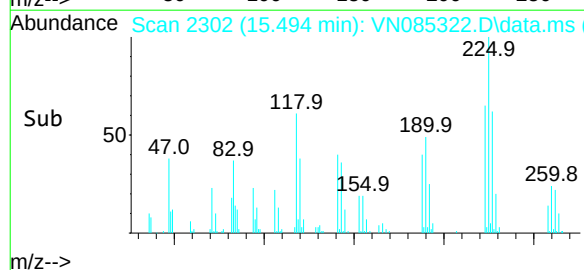
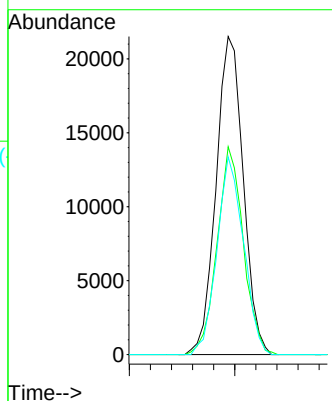
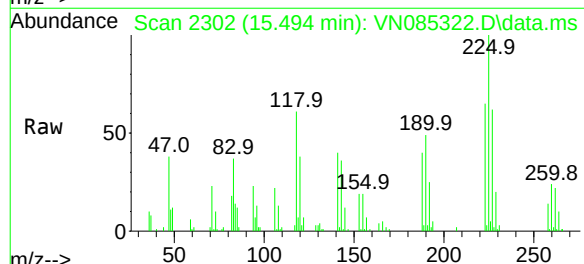
Tgt Ion:225 Resp: 38529

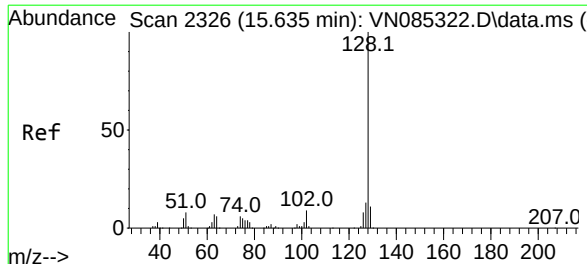
Ion Ratio Lower Upper

225 100

223 63.1 31.6 94.7

227 60.7 30.3 91.0





#95

Naphthalene

Concen: 48.560 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

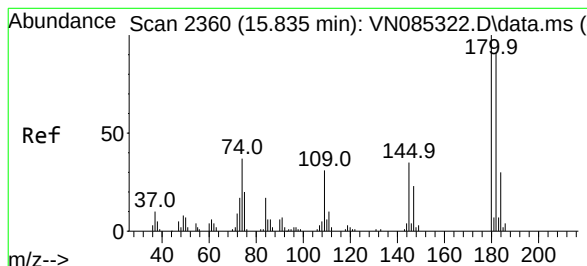
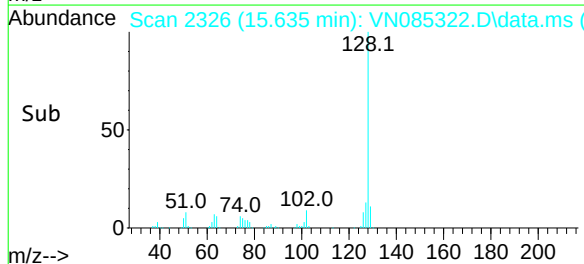
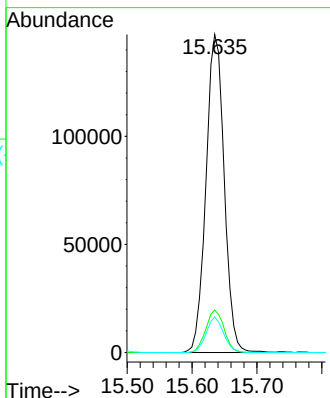
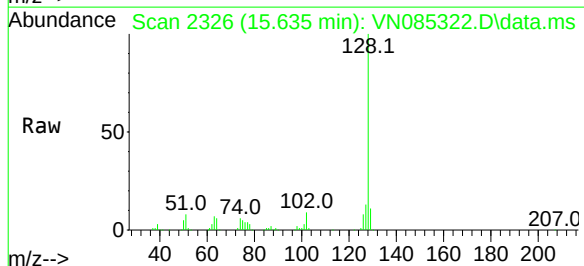
VSTDICCC050

Tgt Ion:	128	Resp:	286887
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	10.6	8.5	12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#96

1,2,3-Trichlorobenzene

Concen: 48.618 ug/l

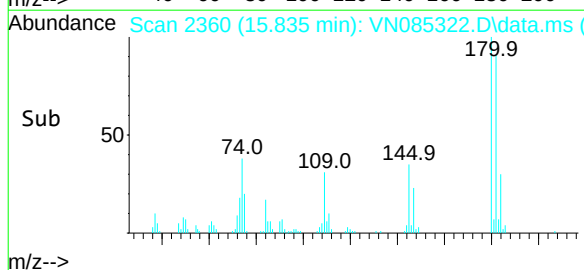
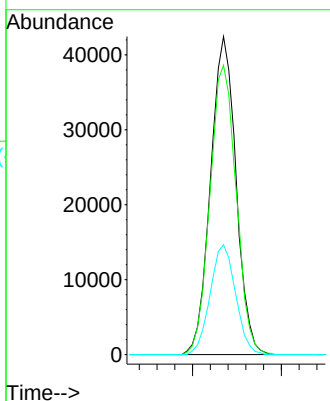
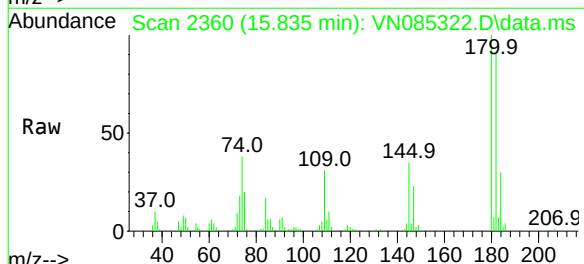
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:	180	Resp:	84633
Ion	Ratio	Lower	Upper
180	100		
182	93.6	46.8	140.4
145	34.4	17.2	51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085323.D
 Acq On : 27 Dec 2024 11:13
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	146535	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	261564	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	224166	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	100909	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	40091	19.182	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	38.360%#
35) Dibromofluoromethane	8.159	113	30693	18.810	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	37.620%#
50) Toluene-d8	10.565	98	111985	18.702	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	37.400%#
62) 4-Bromofluorobenzene	12.847	95	37918	19.067	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	38.140%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	38592	19.473	ug/l	98
3) Chloromethane	2.359	50	43217	19.403	ug/l	97
4) Vinyl Chloride	2.512	62	48485	20.583	ug/l	93
5) Bromomethane	2.953	94	31343	20.345	ug/l	99
6) Chloroethane	3.112	64	30158	20.188	ug/l	97
7) Trichlorofluoromethane	3.500	101	63811	20.607	ug/l	96
8) Diethyl Ether	3.959	74	21865	21.325	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	35482	20.140	ug/l	97
10) Methyl Iodide	4.589	142	42319	20.755	ug/l	91
11) Tert butyl alcohol	5.512	59	27123	103.637	ug/l	100
12) 1,1-Dichloroethene	4.342	96	34208	21.007	ug/l	96
13) Acrolein	4.177	56	40956	100.376	ug/l	98
14) Allyl chloride	5.018	41	53265	20.438	ug/l	100
15) Acrylonitrile	5.718	53	87221	105.889	ug/l	98
16) Acetone	4.424	43	73157	106.449	ug/l	97
17) Carbon Disulfide	4.712	76	101412	20.471	ug/l	98
18) Methyl Acetate	5.024	43	43744	20.790	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	113371	21.420	ug/l	97
20) Methylene Chloride	5.277	84	38285	20.711	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	36209	21.286	ug/l	91
22) Diisopropyl ether	6.665	45	120874	21.523	ug/l	99
23) Vinyl Acetate	6.600	43	461817m	114.387	ug/l	
24) 1,1-Dichloroethane	6.565	63	70880	20.952	ug/l	97
25) 2-Butanone	7.477	43	114225	107.133	ug/l	96
26) 2,2-Dichloropropane	7.483	77	63819	21.532	ug/l	99
27) cis-1,2-Dichloroethene	7.477	96	42857	21.466	ug/l	97
28) Bromochloromethane	7.806	49	31632	20.120	ug/l #	99
29) Tetrahydrofuran	7.835	42	74837	108.966	ug/l	99
30) Chloroform	7.965	83	72892	21.061	ug/l	95
31) Cyclohexane	8.253	56	61911	20.041	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	64420	20.841	ug/l	92
36) 1,1-Dichloropropene	8.365	75	49840	20.861	ug/l	98
37) Ethyl Acetate	7.553	43	49720	20.937	ug/l	99
38) Carbon Tetrachloride	8.359	117	55847	21.445	ug/l	94
39) Methylcyclohexane	9.600	83	53626	21.633	ug/l	100
40) Benzene	8.606	78	154946	21.450	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085323.D
 Acq On : 27 Dec 2024 11:13
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/30/2024
 Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	25636	21.079	ug/l	98
42) 1,2-Dichloroethane	8.665	62	57096	22.046	ug/l	98
43) Isopropyl Acetate	8.682	43	82570	21.117	ug/l	99
44) Trichloroethene	9.347	130	36092	21.104	ug/l	96
45) 1,2-Dichloropropane	9.618	63	39400	21.486	ug/l	93
46) Dibromomethane	9.706	93	26782	21.000	ug/l	98
47) Bromodichloromethane	9.882	83	55383	20.894	ug/l	93
48) Methyl methacrylate	9.677	41	36893	21.744	ug/l	98
49) 1,4-Dioxane	9.694	88	11804	461.104	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	241756	110.019	ug/l	100
52) Toluene	10.624	92	93343	21.702	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	55084	21.132	ug/l	94
54) cis-1,3-Dichloropropene	10.306	75	61217	21.718	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	33459	20.604	ug/l	96
56) Ethyl methacrylate	10.871	69	53114	22.458	ug/l	98
57) 1,3-Dichloropropane	11.159	76	61684	21.643	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	118474	103.539	ug/l	100
59) 2-Hexanone	11.194	43	170875	112.081	ug/l	100
60) Dibromochloromethane	11.359	129	39538	21.617	ug/l	98
61) 1,2-Dibromoethane	11.465	107	35034	21.807	ug/l	98
64) Tetrachloroethene	11.100	164	30849	21.718	ug/l	96
65) Chlorobenzene	11.888	112	101427	20.938	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	35030	21.546	ug/l	97
67) Ethyl Benzene	11.959	91	174337	21.640	ug/l	100
68) m/p-Xylenes	12.065	106	132648	44.993	ug/l	100
69) o-Xylene	12.394	106	63003	22.091	ug/l	95
70) Styrene	12.406	104	105054	22.728	ug/l	99
71) Bromoform	12.570	173	24644	21.885	ug/l #	98
73) Isopropylbenzene	12.694	105	160752	22.153	ug/l	98
74) N-amyl acetate	12.488	43	69938	22.517	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	48294	20.897	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	38100m	19.654	ug/l	
77) Bromobenzene	12.976	156	37077	20.623	ug/l	98
78) n-propylbenzene	13.029	91	188143	22.243	ug/l	99
79) 2-Chlorotoluene	13.123	91	117169	22.010	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	132546	22.582	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	16798	21.448	ug/l	99
82) 4-Chlorotoluene	13.217	91	117825	21.976	ug/l	97
83) tert-Butylbenzene	13.435	119	111983	22.025	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	135046	23.107	ug/l	99
85) sec-Butylbenzene	13.612	105	155451	22.026	ug/l	98
86) p-Isopropyltoluene	13.723	119	130425	21.487	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	69890	21.444	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	70759	21.136	ug/l	99
89) n-Butylbenzene	14.053	91	113729	22.006	ug/l	99
90) Hexachloroethane	14.329	117	24441	21.128	ug/l	95
91) 1,2-Dichlorobenzene	14.100	146	67480	21.735	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.712	75	9030	21.954	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	33300	21.491	ug/l	99
94) Hexachlorobutadiene	15.500	225	16152	20.980	ug/l	97
95) Naphthalene	15.635	128	111233	21.170	ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	32729	21.140	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085323.D
Acq On : 27 Dec 2024 11:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration

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

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

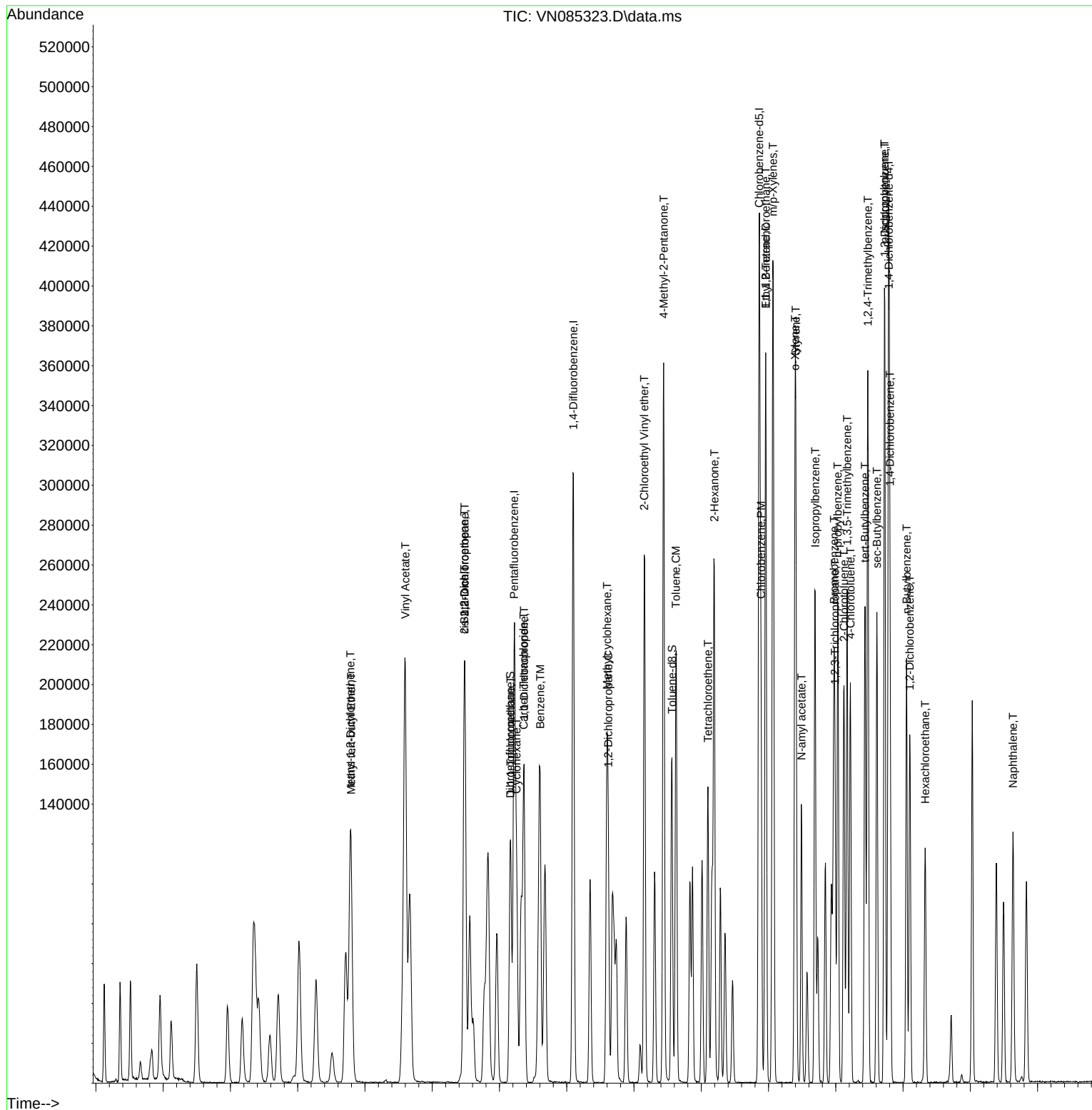
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085323.D
Acq On : 27 Dec 2024 11:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

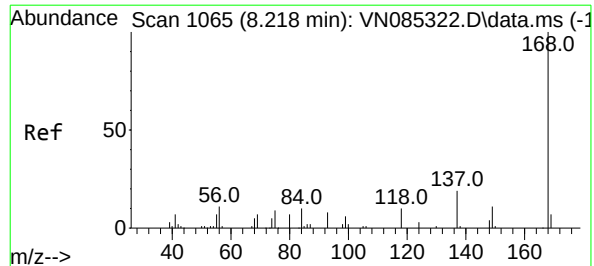
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Dec 28 01:13:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024





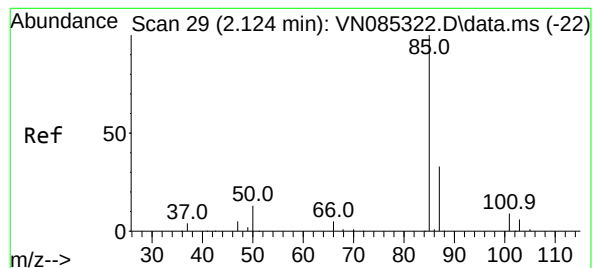
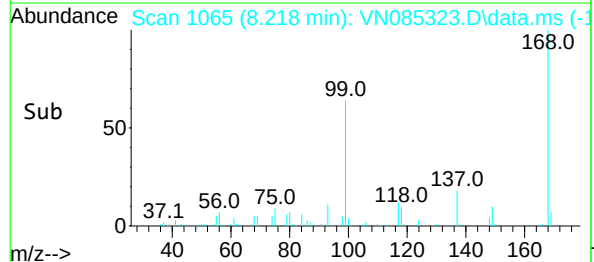
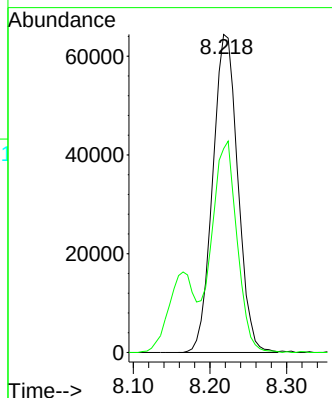
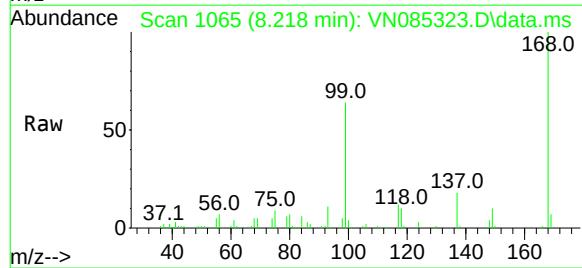
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085323.D
Acq: 27 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 146535
Ion Ratio Lower Upper
168 100
99 63.8 51.0 76.4

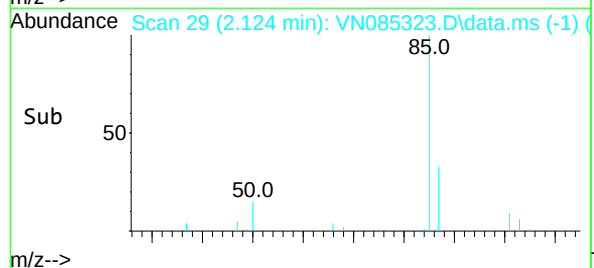
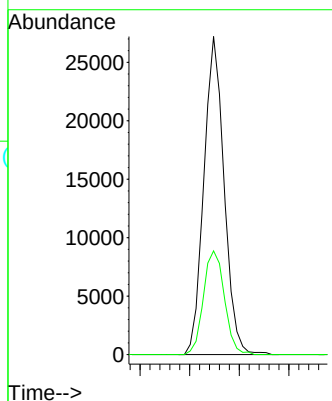
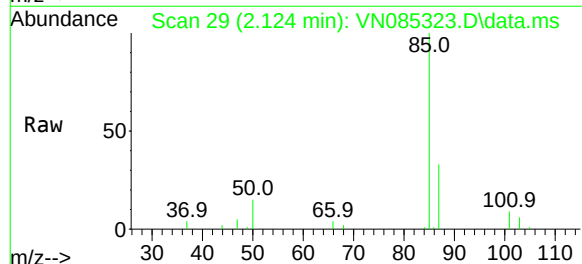
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

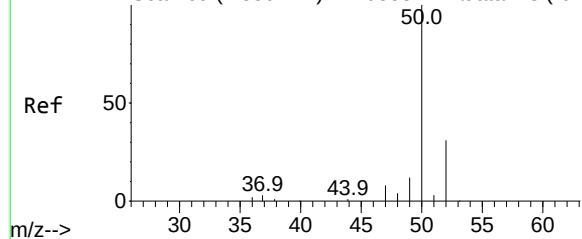


#2
Dichlorodifluoromethane
Concen: 19.473 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085323.D
Acq: 27 Dec 2024 11:13

Tgt Ion: 85 Resp: 38592
Ion Ratio Lower Upper
85 100
87 32.6 16.8 50.3



Abundance Scan 69 (2.359 min): VN085322.D\data.ms (-62)



#3

Chloromethane

Concen: 19.403 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 50 Resp: 43217

Ion Ratio Lower Upper

50 100

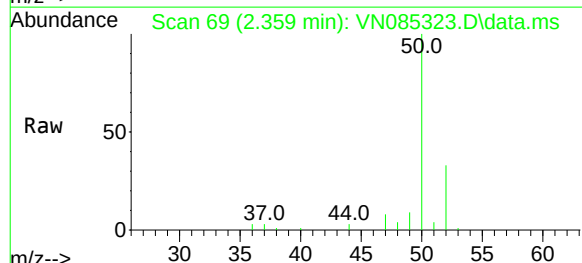
52 33.1 25.1 37.7

Manual Integrations

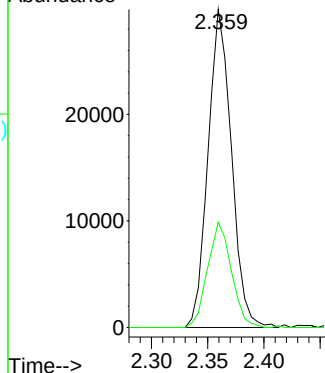
APPROVED

Reviewed By :John Carlone 12/30/2024

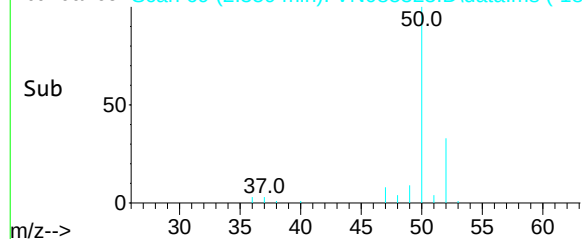
Supervised By :Mahesh Dadoda 12/30/2024



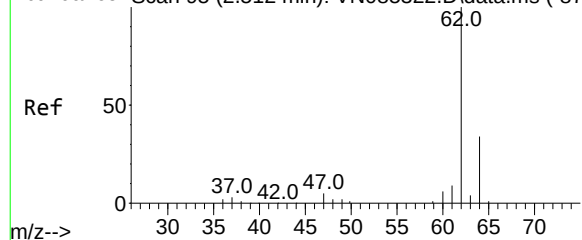
Abundance



Abundance Scan 69 (2.359 min): VN085323.D\data.ms (-18)



Abundance Scan 95 (2.512 min): VN085322.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 20.583 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085323.D

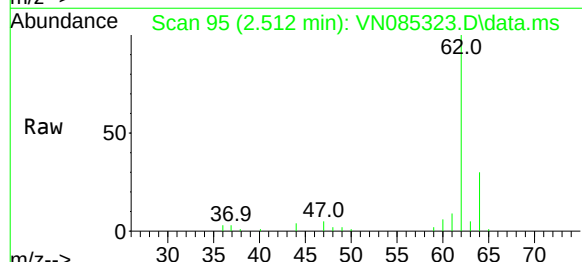
Acq: 27 Dec 2024 11:13

Tgt Ion: 62 Resp: 48485

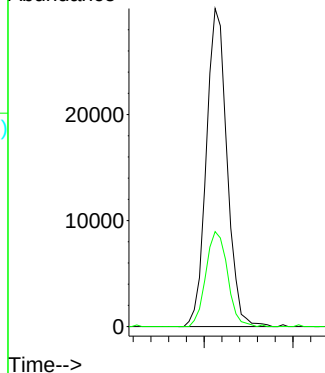
Ion Ratio Lower Upper

62 100

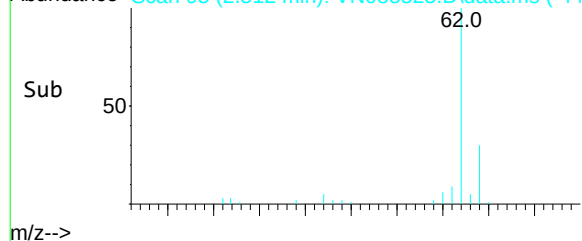
64 29.9 27.0 40.6

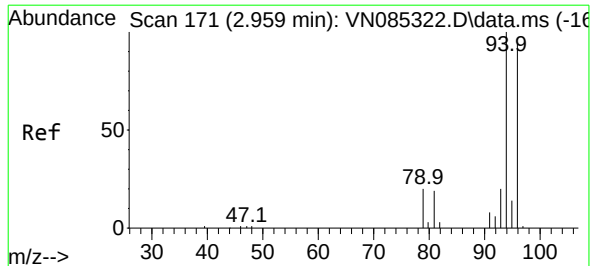


Abundance



Abundance Scan 95 (2.512 min): VN085323.D\data.ms (-44)





#5

Bromomethane

Concen: 20.345 ug/l

RT: 2.953 min Scan# 171

Delta R.T. -0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 94 Resp: 31343

Ion Ratio Lower Upper

94 100

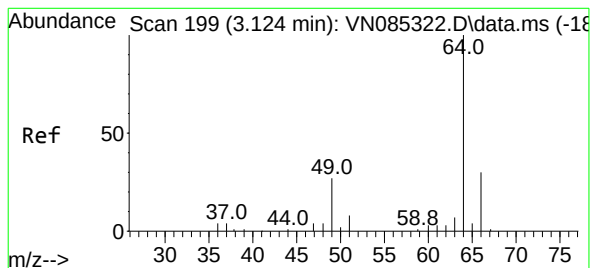
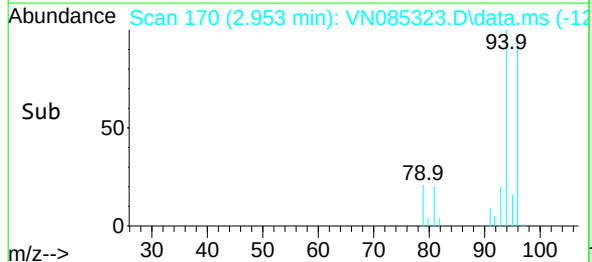
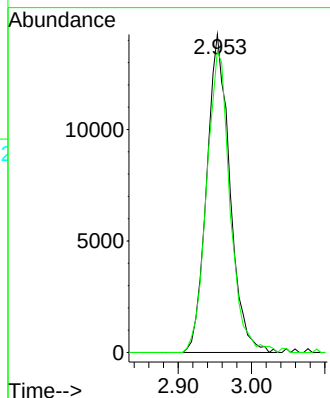
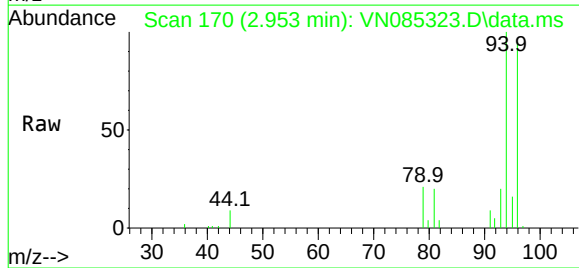
96 94.9 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#6

Chloroethane

Concen: 20.188 ug/l

RT: 3.112 min Scan# 197

Delta R.T. -0.012 min

Lab File: VN085323.D

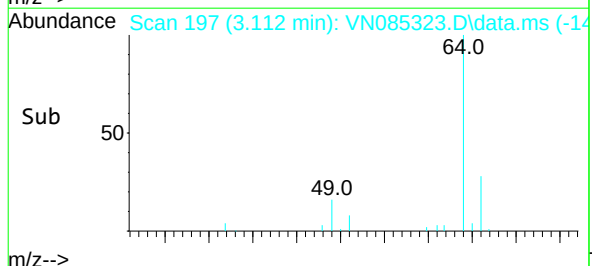
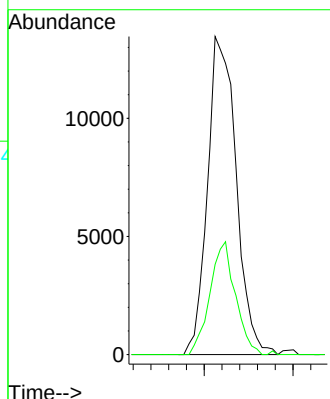
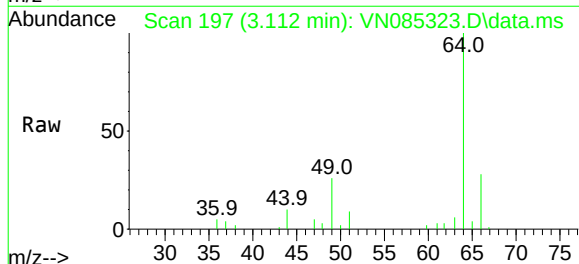
Acq: 27 Dec 2024 11:13

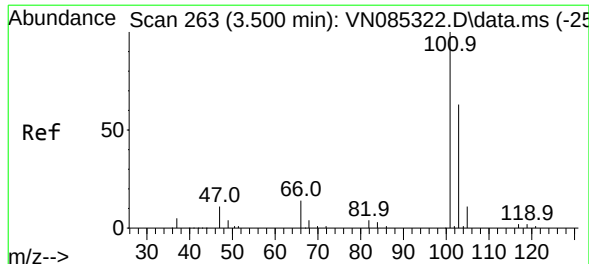
Tgt Ion: 64 Resp: 30158

Ion Ratio Lower Upper

64 100

66 28.4 24.1 36.1





#7

Trichlorofluoromethane

Concen: 20.607 ug/l

RT: 3.500 min Scan# 263

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:101 Resp: 63811

Ion Ratio Lower Upper

101 100

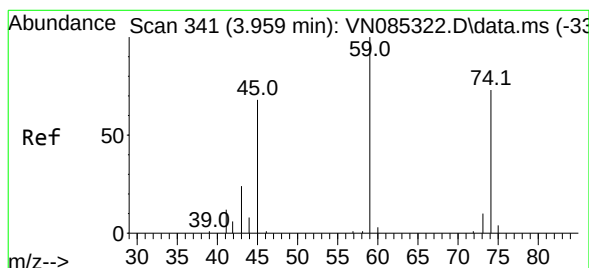
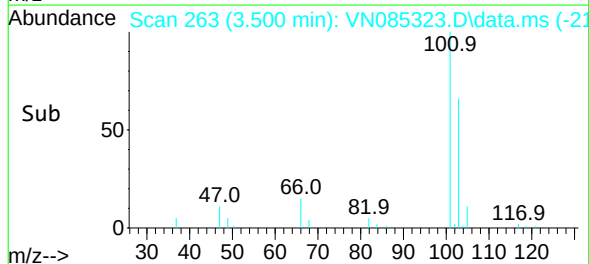
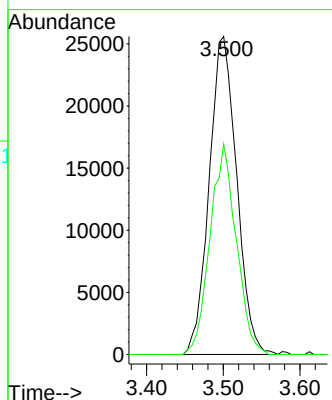
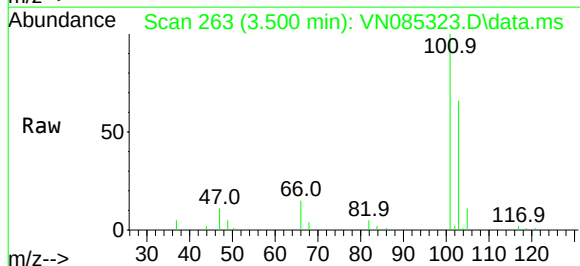
103 66.2 50.3 75.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#8

Diethyl Ether

Concen: 21.325 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.000 min

Lab File: VN085323.D

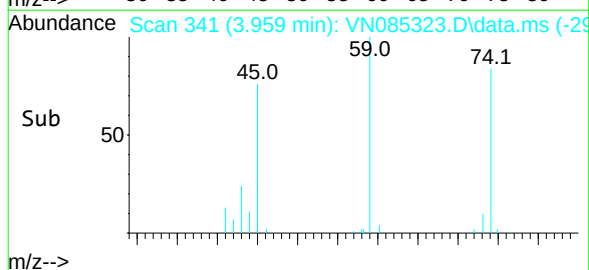
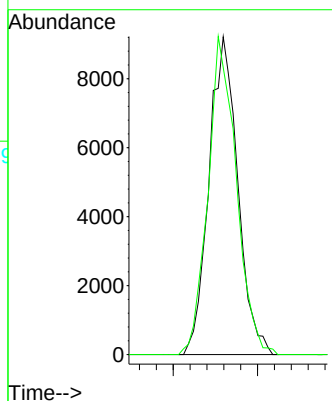
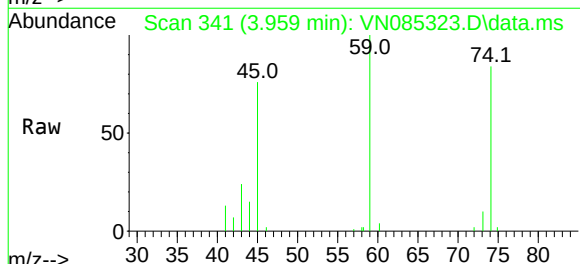
Acq: 27 Dec 2024 11:13

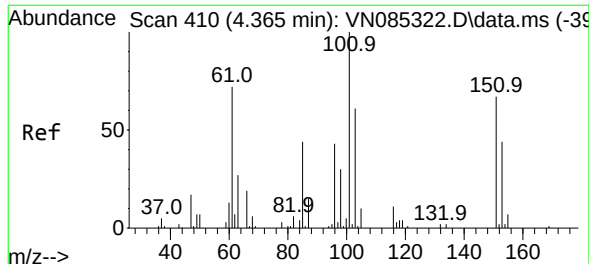
Tgt Ion: 74 Resp: 21865

Ion Ratio Lower Upper

74 100

45 98.3 47.5 142.6





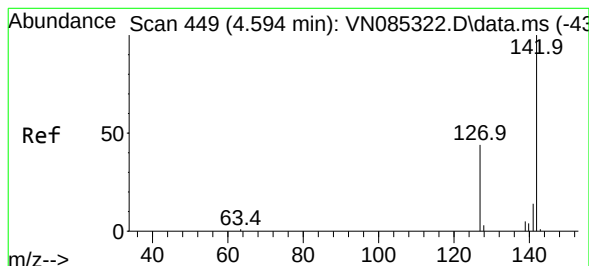
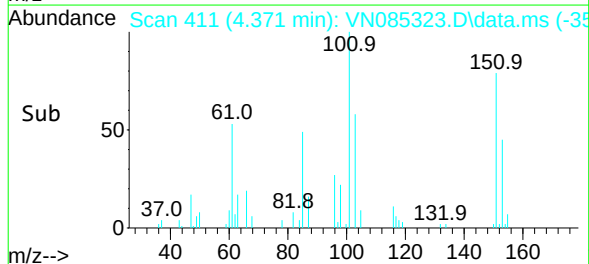
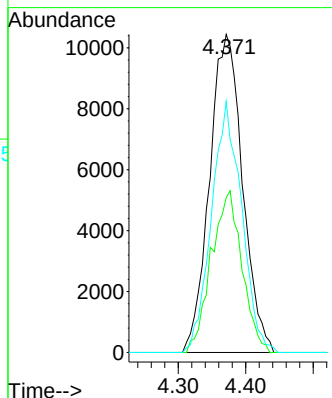
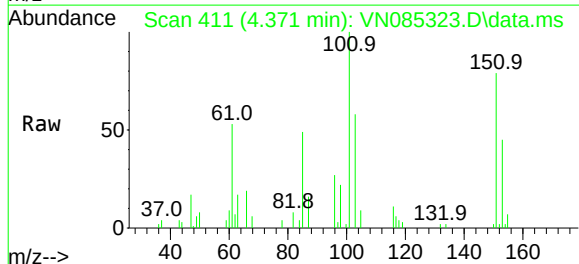
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.140 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN085323.D
Acq: 27 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion	Ratio	Lower	Upper
101	100		
85	47.2	36.2	54.4
151	72.0	55.8	83.6

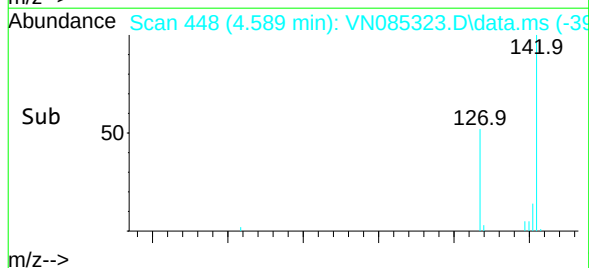
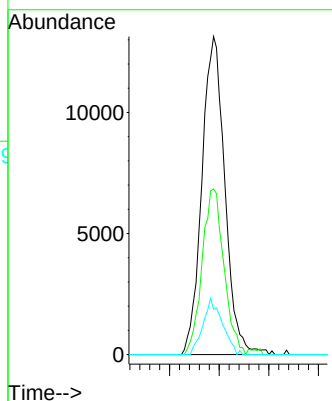
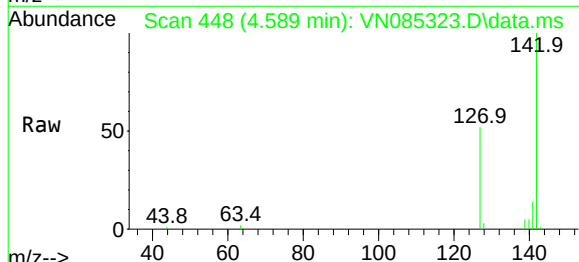
Manual Integrations
APPROVED

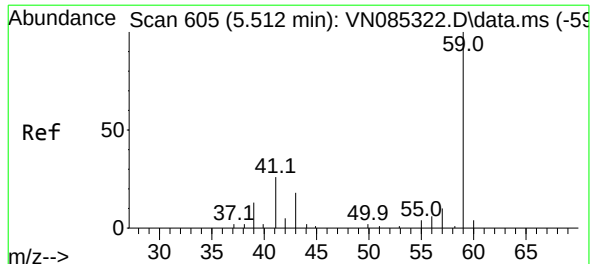
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#10
Methyl Iodide
Concen: 20.755 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN085323.D
Acq: 27 Dec 2024 11:13

Tgt Ion	Ratio	Lower	Upper
142	100		
127	52.1	35.3	52.9
141	14.2	11.5	17.3





#11

Tert butyl alcohol

Concen: 103.637 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 59 Resp: 27123

Ion Ratio Lower Upper

59 100

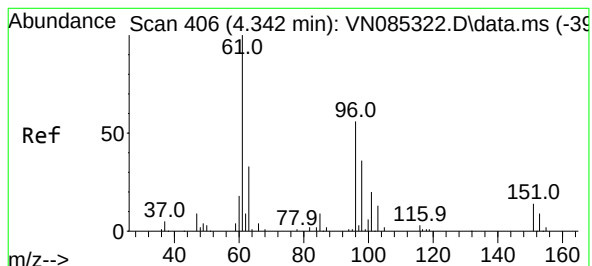
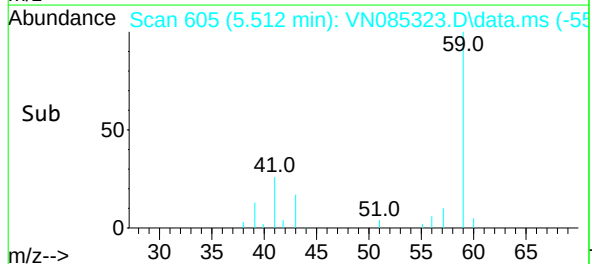
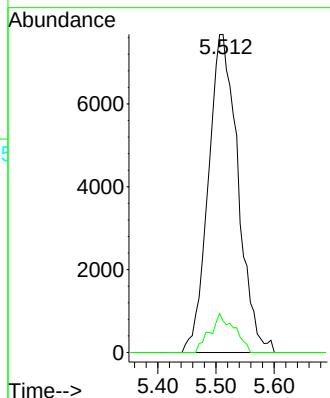
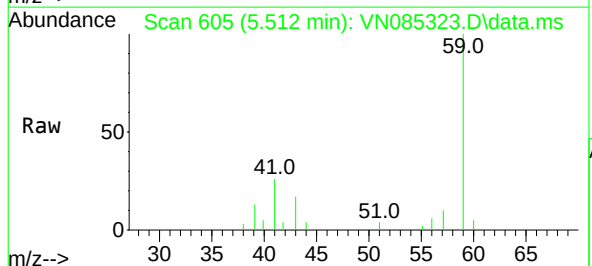
57 10.0 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#12

1,1-Dichloroethene

Concen: 21.007 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

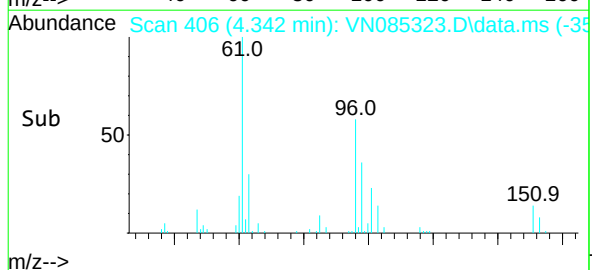
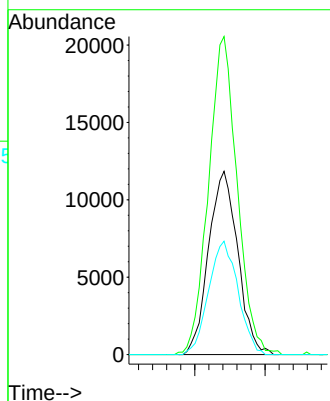
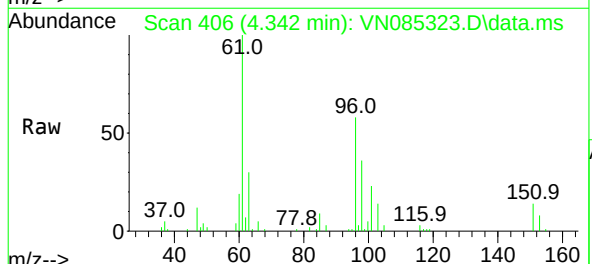
Tgt Ion: 96 Resp: 34208

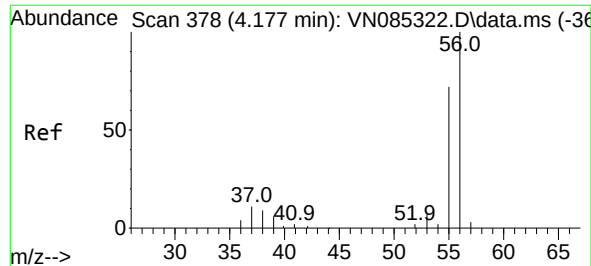
Ion Ratio Lower Upper

96 100

61 172.3 142.4 213.6

98 61.9 51.5 77.3





#13

Acrolein

Concen: 100.376 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.000 min

Lab File: VN085323.D

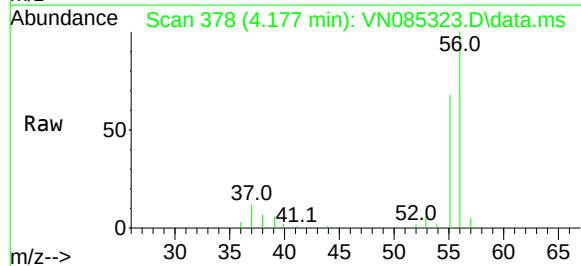
Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

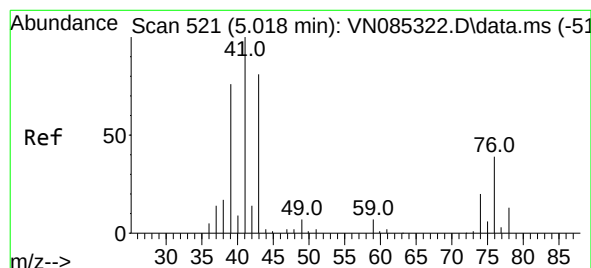
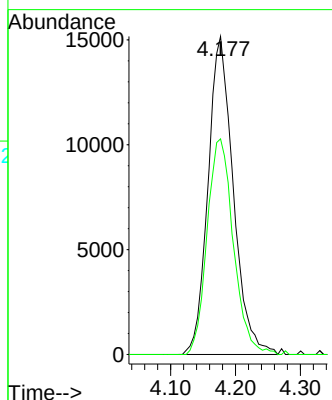
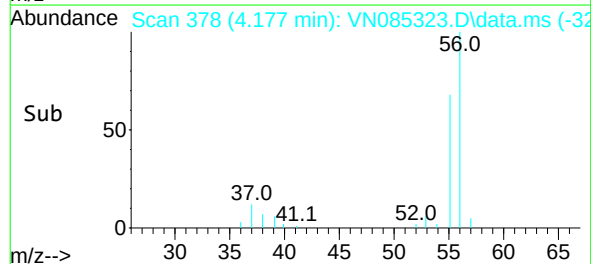
VSTDICC020



Tgt Ion:	56	Resp:	40956
Ion	Ratio	Lower	Upper
56	100		
55	70.6	57.5	86.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#14

Allyl chloride

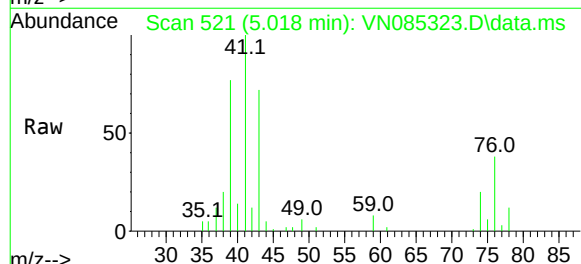
Concen: 20.438 ug/l

RT: 5.018 min Scan# 521

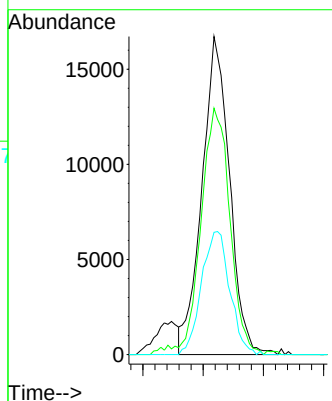
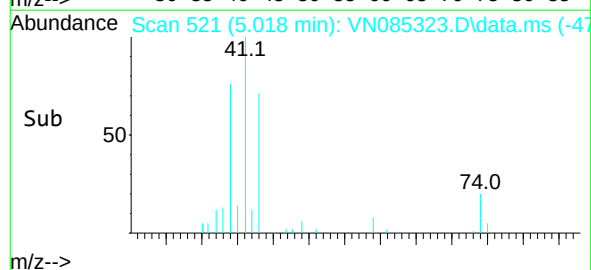
Delta R.T. 0.000 min

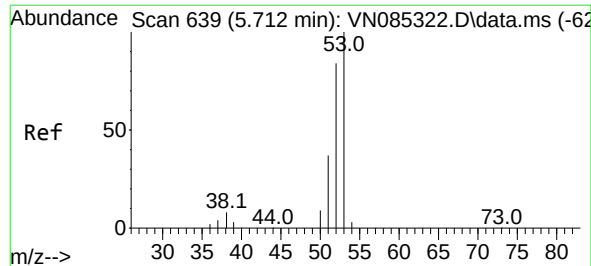
Lab File: VN085323.D

Acq: 27 Dec 2024 11:13



Tgt Ion:	41	Resp:	53265
Ion	Ratio	Lower	Upper
41	100		
39	80.0	64.4	96.6
76	39.6	31.5	47.3





#15

Acrylonitrile

Concen: 105.889 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

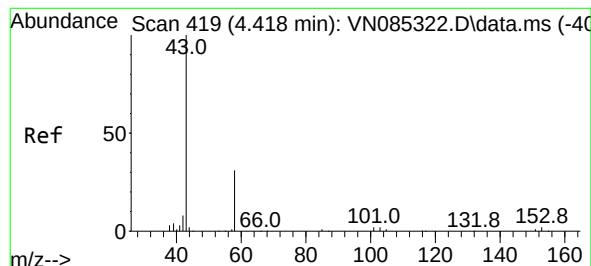
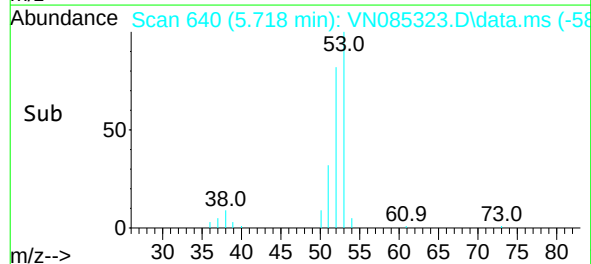
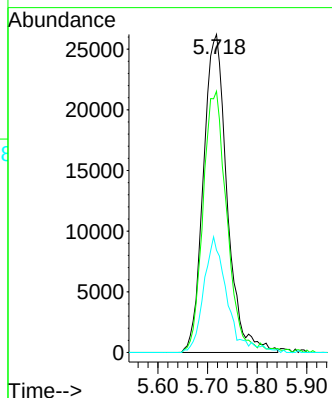
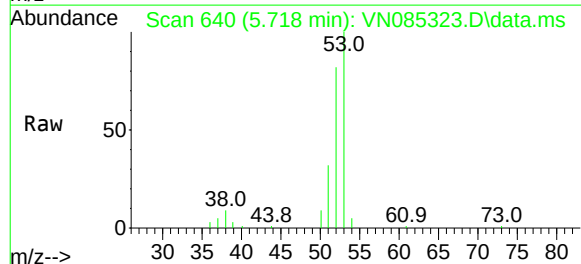
ClientSampleId :

VSTDICC020

Tgt Ion:	53	Resp:	87221
Ion	Ratio	Lower	Upper
53	100		
52	81.6	66.6	100.0
51	35.9	29.6	44.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#16

Acetone

Concen: 106.449 ug/l

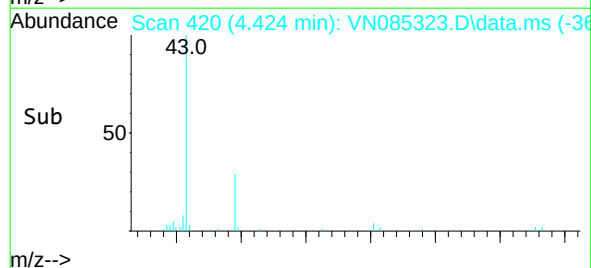
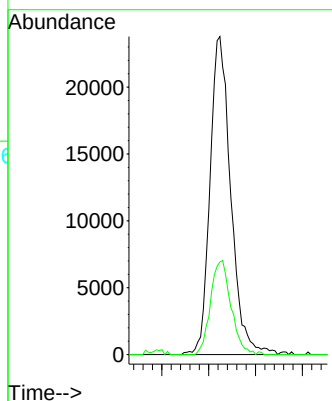
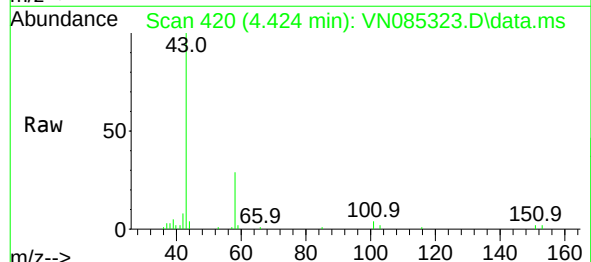
RT: 4.424 min Scan# 420

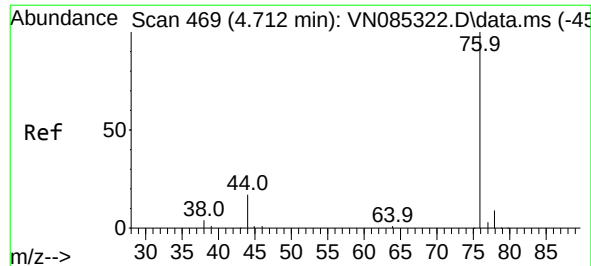
Delta R.T. 0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion:	43	Resp:	73157
Ion	Ratio	Lower	Upper
43	100		
58	29.1	24.5	36.7





#17

Carbon Disulfide

Concen: 20.471 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 101412

Ion Ratio Lower Upper

76 100

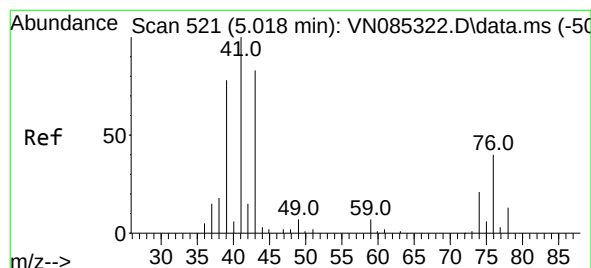
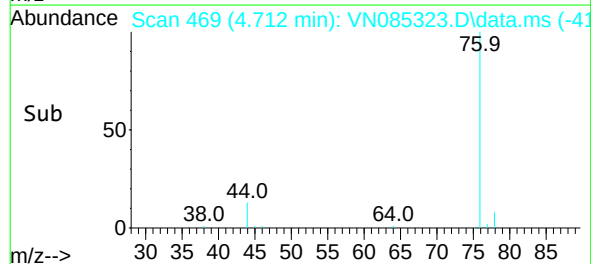
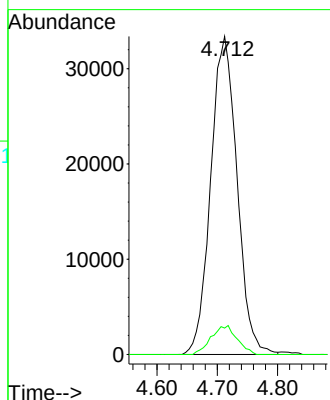
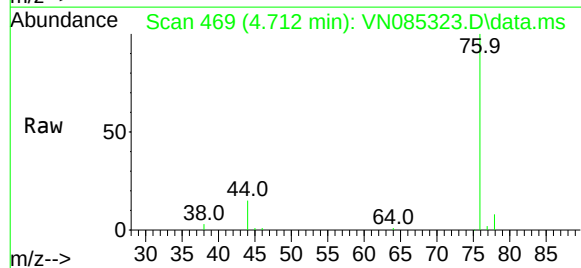
78 8.3 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#18

Methyl Acetate

Concen: 20.790 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085323.D

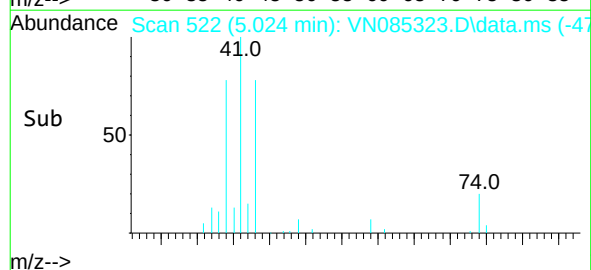
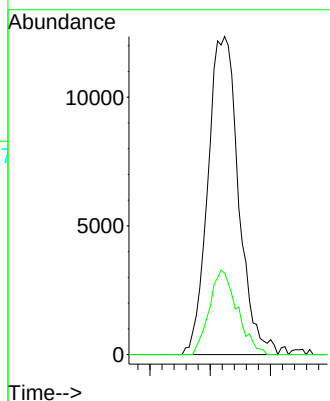
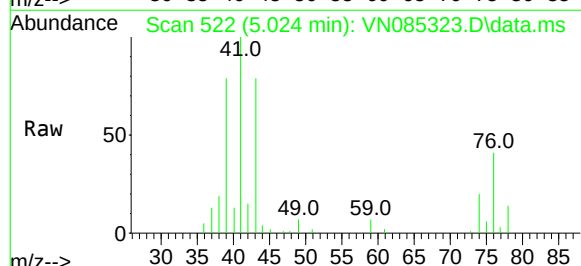
Acq: 27 Dec 2024 11:13

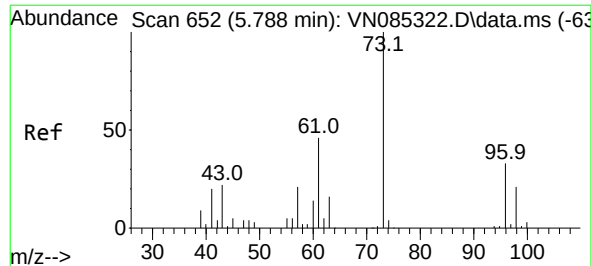
Tgt Ion: 43 Resp: 43744

Ion Ratio Lower Upper

43 100

74 24.2 19.0 28.6





#19

Methyl tert-butyl Ether

Concen: 21.420 ug/l

RT: 5.794 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 113371

Ion Ratio Lower Upper

73 100

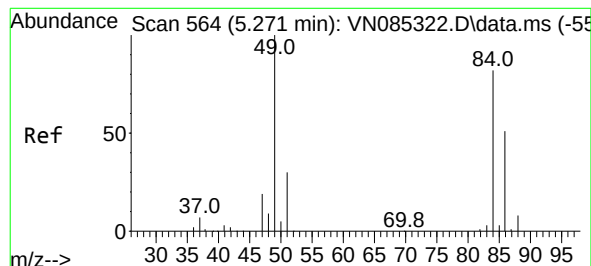
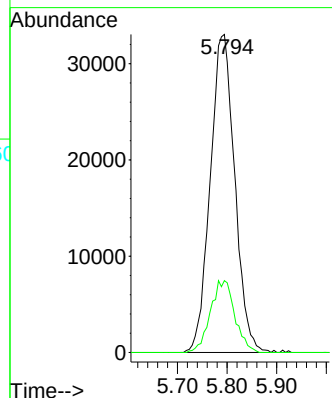
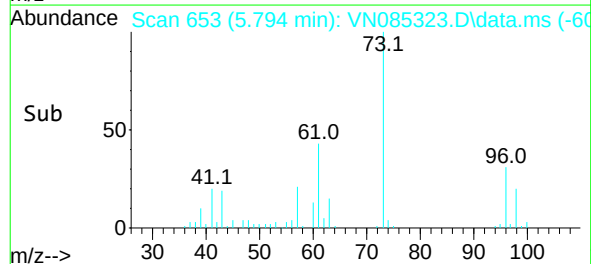
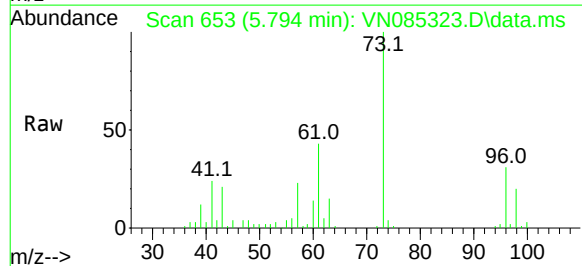
57 22.6 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#20

Methylene Chloride

Concen: 20.711 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion: 84 Resp: 38285

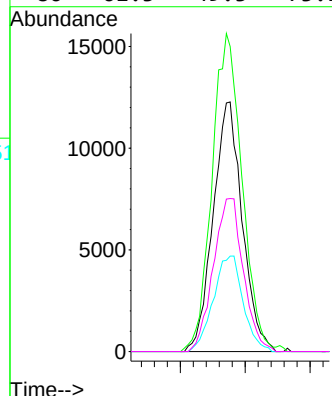
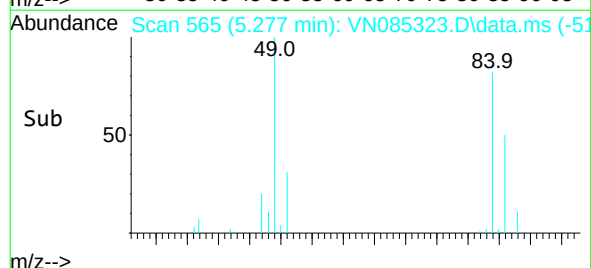
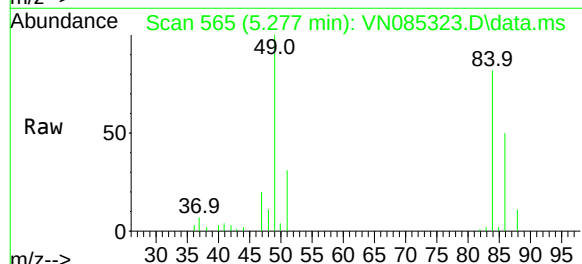
Ion Ratio Lower Upper

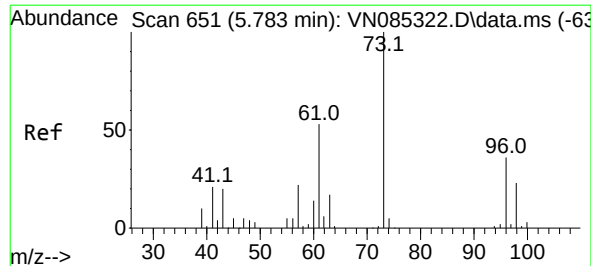
84 100

49 122.2 97.6 146.4

51 38.2 29.1 43.7

86 61.3 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 21.286 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 36209

Ion Ratio Lower Upper

96 100

61 135.4 118.0 177.0

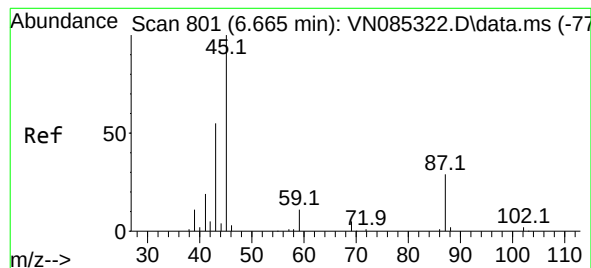
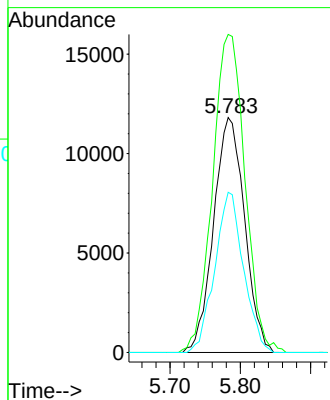
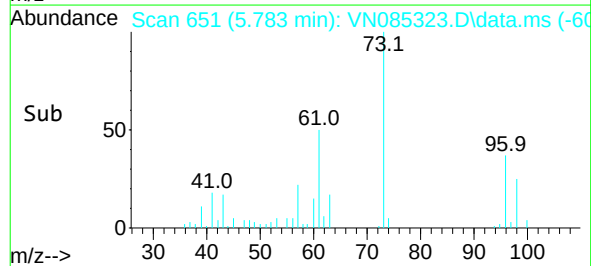
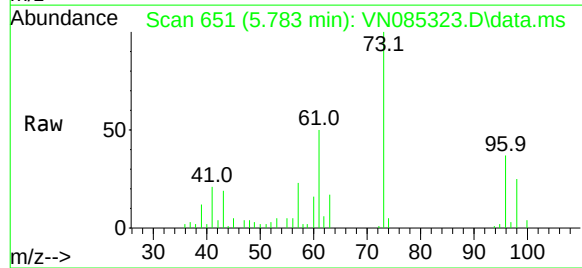
98 68.2 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#22

Diisopropyl ether

Concen: 21.523 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion: 45 Resp: 120874

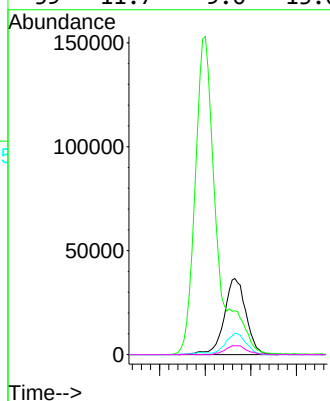
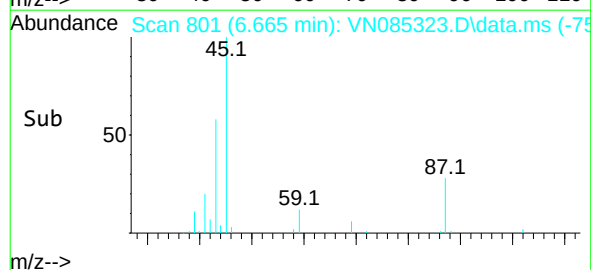
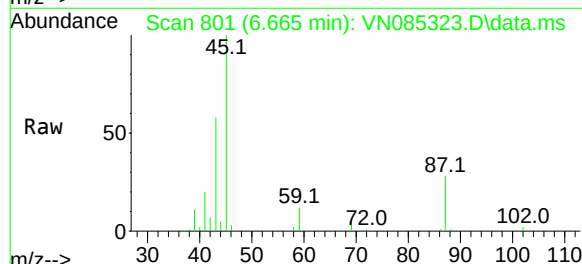
Ion Ratio Lower Upper

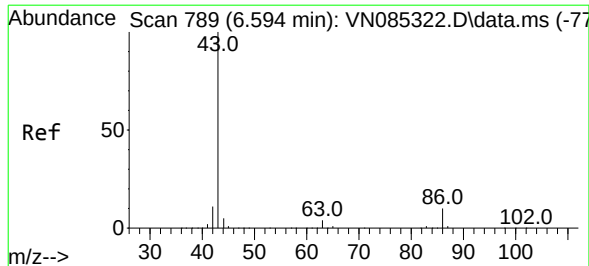
45 100

43 56.3 44.1 66.1

87 28.3 23.2 34.8

59 11.7 9.0 13.6





#23

Vinyl Acetate

Concen: 114.387 ug/l m

RT: 6.600 min Scan# 79

Delta R.T. 0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 461817

Ion Ratio Lower Upper

43 100

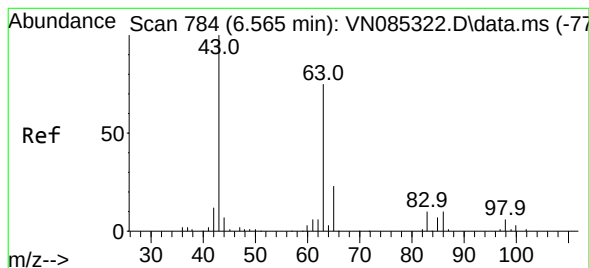
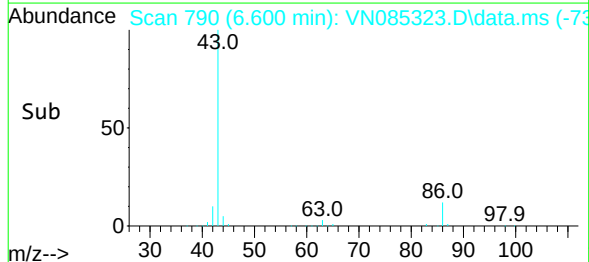
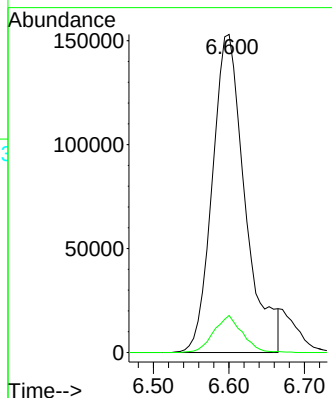
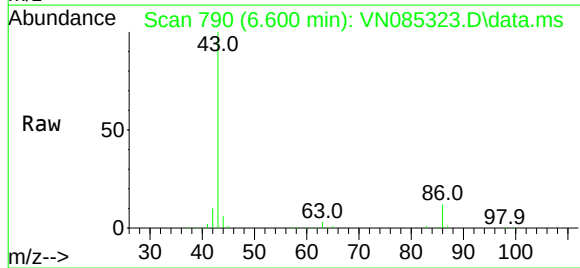
86 11.6 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#24

1,1-Dichloroethane

Concen: 20.952 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

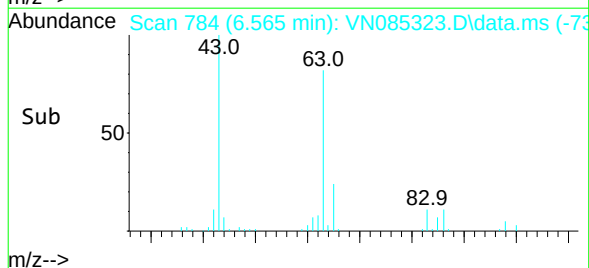
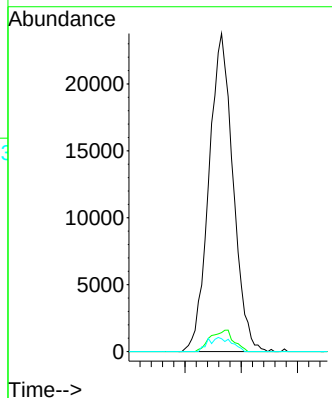
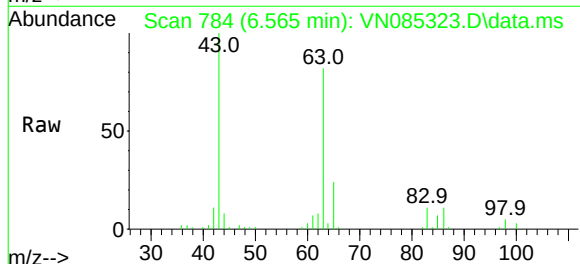
Tgt Ion: 63 Resp: 70880

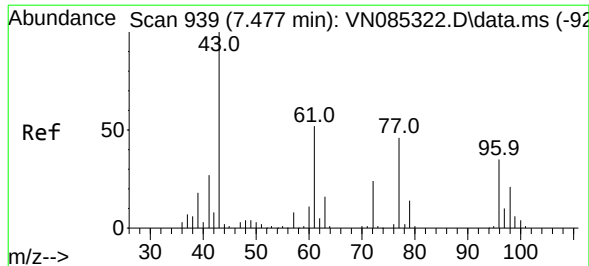
Ion Ratio Lower Upper

63 100

98 6.0 3.7 11.1

100 4.1 2.3 6.8





#25

2-Butanone

Concen: 107.133 ug/l

RT: 7.477 min Scan# 93

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion: 43 Resp: 114225

Ion Ratio Lower Upper

43 100

72 26.4 19.6 29.4

Instrument :

MSVOA_N

ClientSampleId :

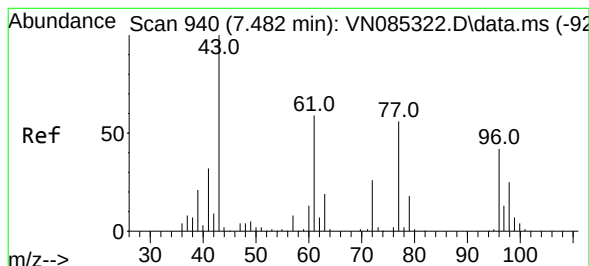
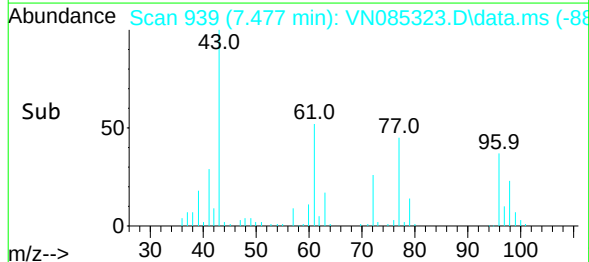
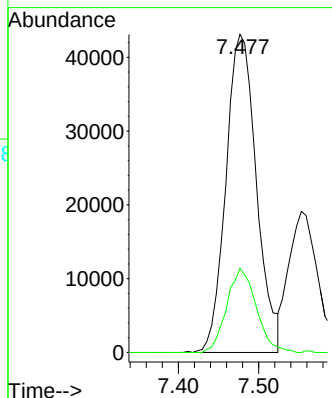
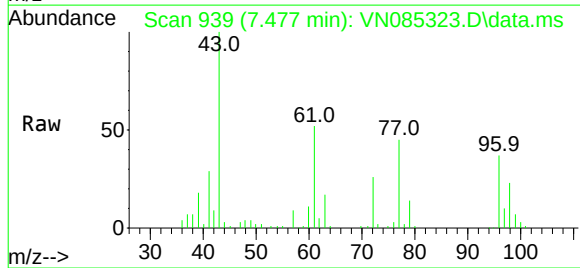
VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#26

2,2-Dichloropropane

Concen: 21.532 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085323.D

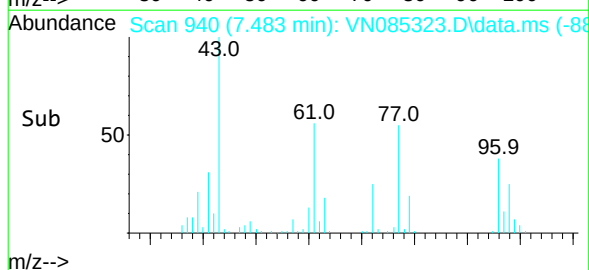
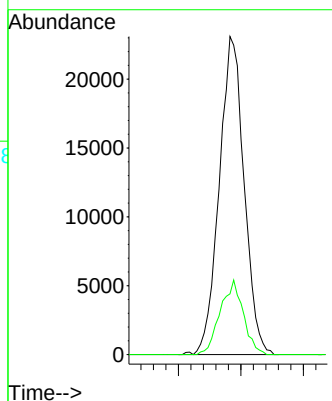
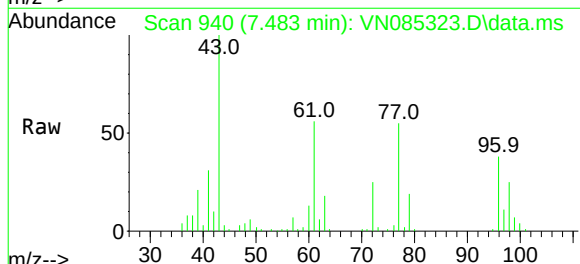
Acq: 27 Dec 2024 11:13

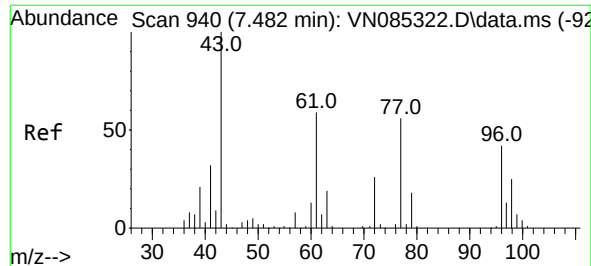
Tgt Ion: 77 Resp: 63819

Ion Ratio Lower Upper

77 100

97 21.7 10.6 31.8





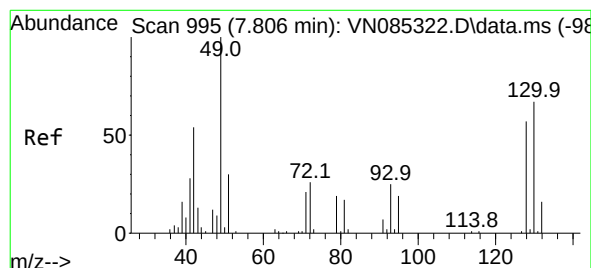
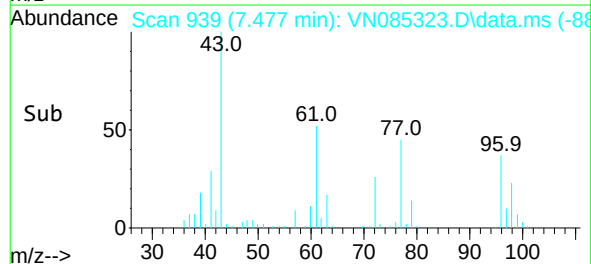
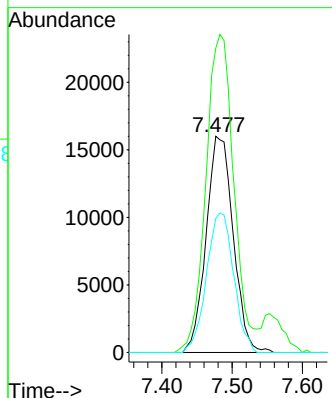
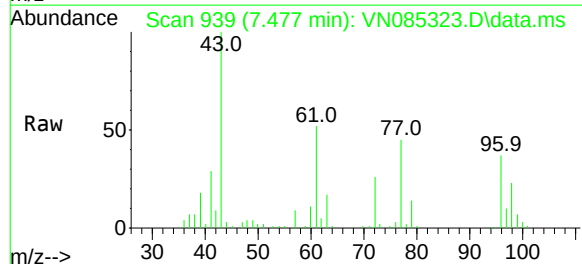
#27
cis-1,2-Dichloroethene
Concen: 21.466 ug/l
RT: 7.477 min Scan# 931
Delta R.T. -0.006 min
Lab File: VN085323.D
Acq: 27 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 42857
Ion Ratio Lower Upper
96 100
61 152.1 0.0 296.4
98 64.8 0.0 124.2

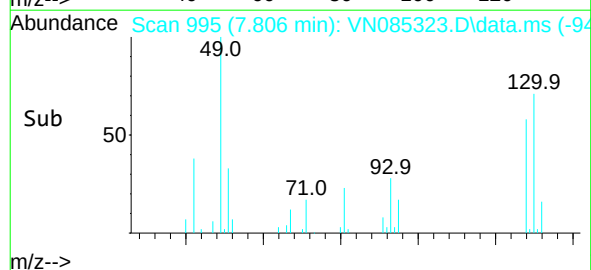
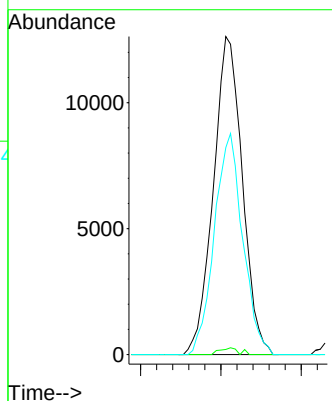
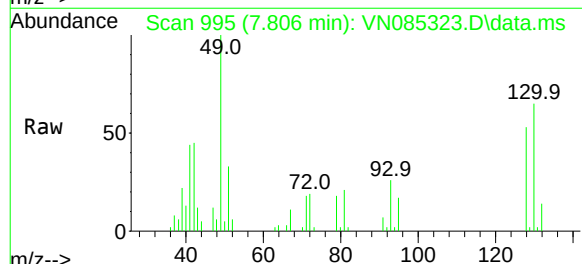
Manual Integrations
APPROVED

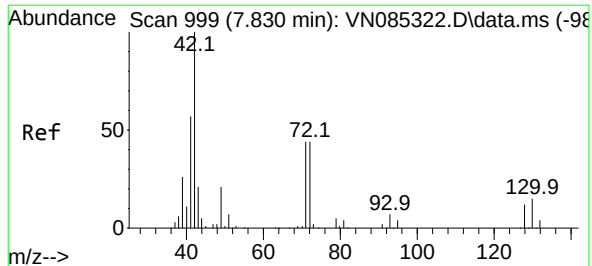
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#28
Bromochloromethane
Concen: 20.120 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085323.D
Acq: 27 Dec 2024 11:13

Tgt Ion: 49 Resp: 31632
Ion Ratio Lower Upper
49 100
129 1.4 0.0 2.0
130 68.1 0.0 0.0#





#29

Tetrahydrofuran

Concen: 108.966 ug/l

RT: 7.835 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

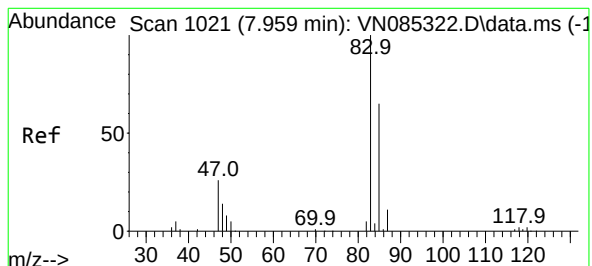
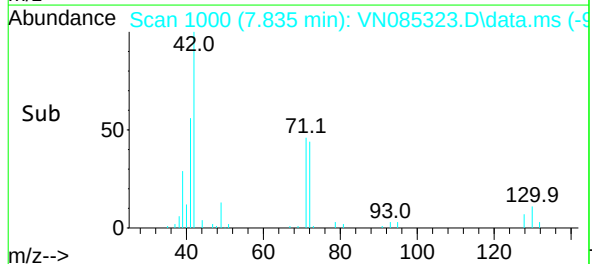
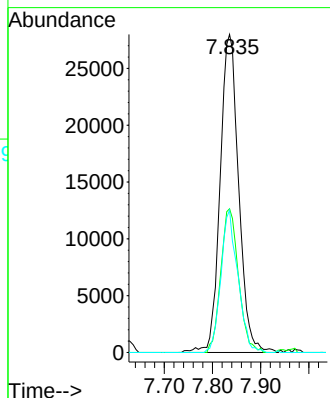
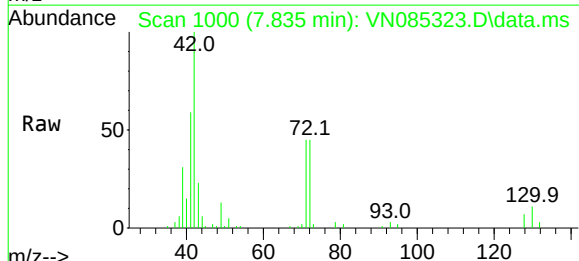
VSTDIC020

Tgt Ion:	42	Resp:	74837
Ion	Ratio	Lower	Upper
42	100		
72	43.3	35.1	52.7
71	40.8	33.4	50.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#30

Chloroform

Concen: 21.061 ug/l

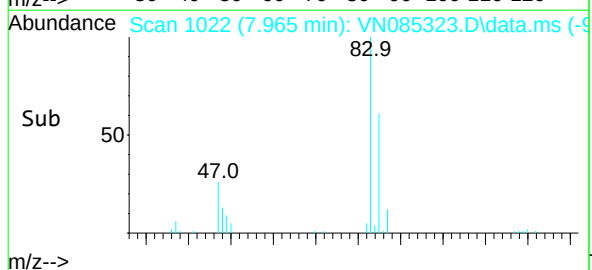
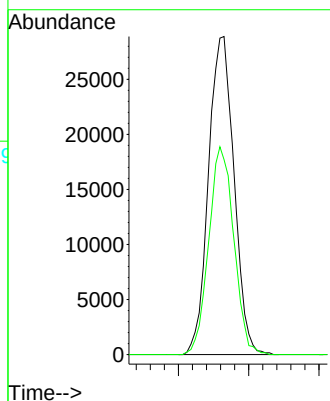
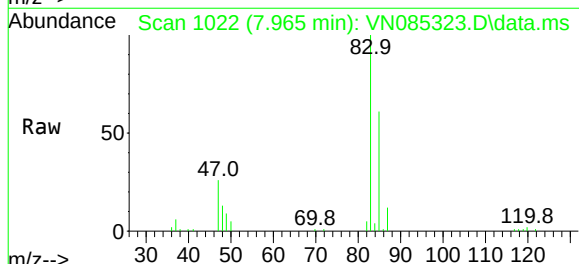
RT: 7.965 min Scan# 1022

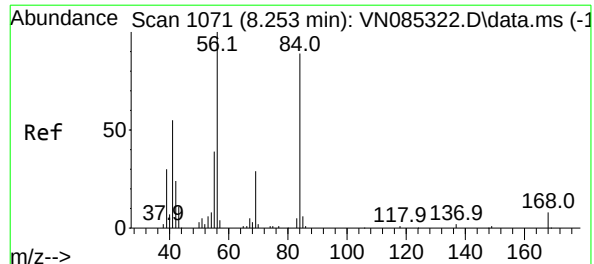
Delta R.T. 0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion:	83	Resp:	72892
Ion	Ratio	Lower	Upper
83	100		
85	61.3	52.0	78.0





#31

Cyclohexane

Concen: 20.041 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion: 56 Resp: 61911

Ion Ratio Lower Upper

56 100

69 31.2 23.4 35.0

84 94.5 71.0 106.6

Instrument :

MSVOA_N

ClientSampleId :

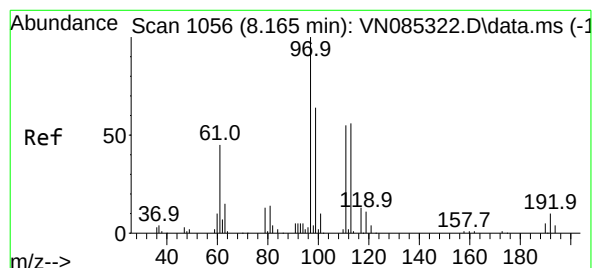
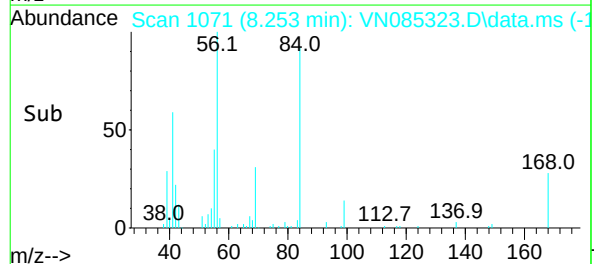
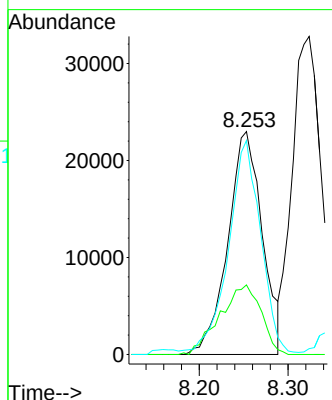
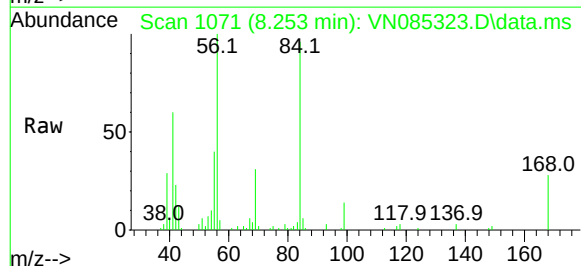
VSTDIC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#32

1,1,1-Trichloroethane

Concen: 20.841 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

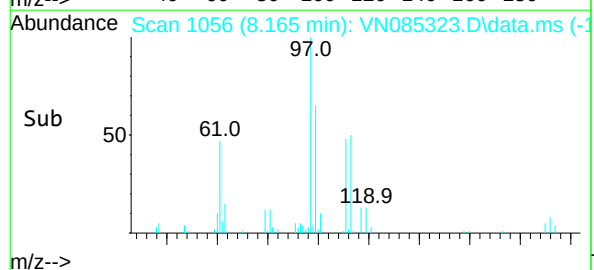
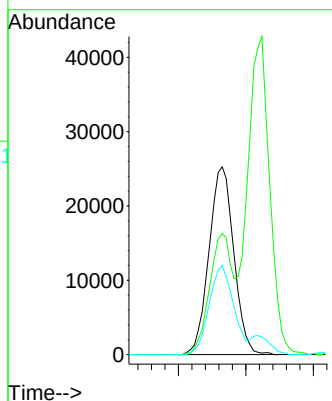
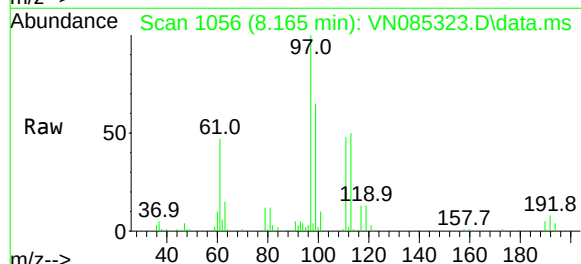
Tgt Ion: 97 Resp: 64420

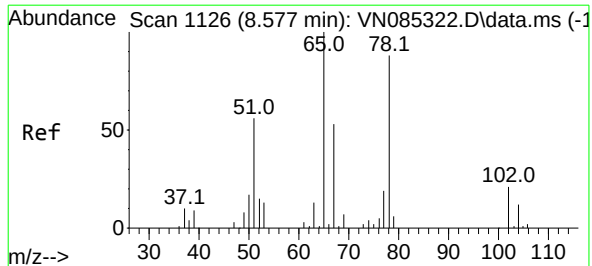
Ion Ratio Lower Upper

97 100

99 58.1 53.3 79.9

61 46.6 39.6 59.4





#33

1,2-Dichloroethane-d4

Concen: 19.182 ug/l

RT: 8.571 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 65 Resp: 40091

Ion Ratio Lower Upper

65 100

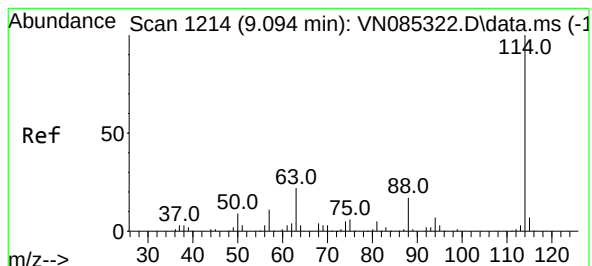
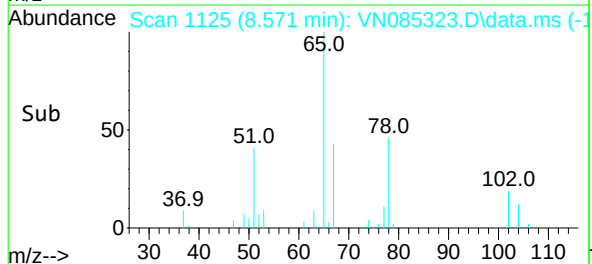
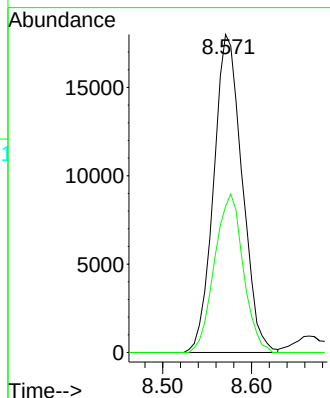
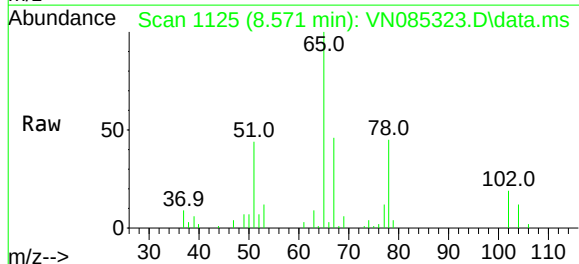
67 50.1 0.0 104.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

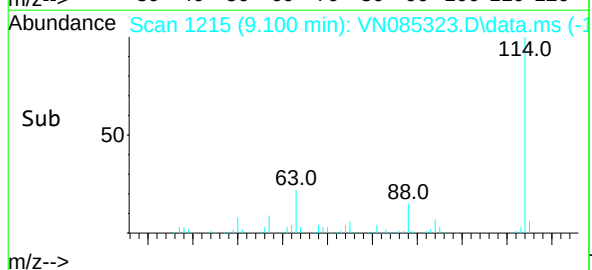
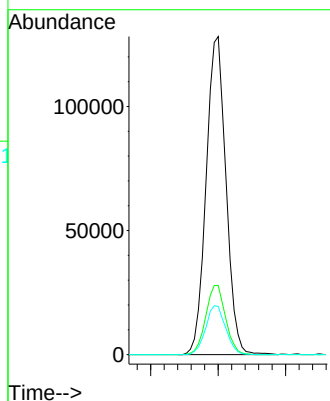
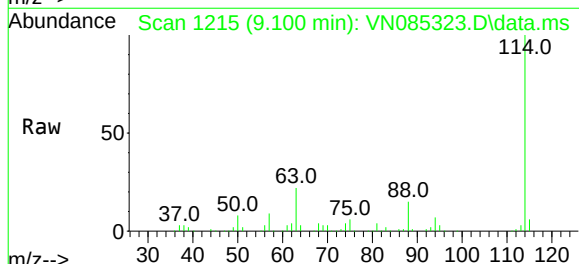
Tgt Ion:114 Resp: 261564

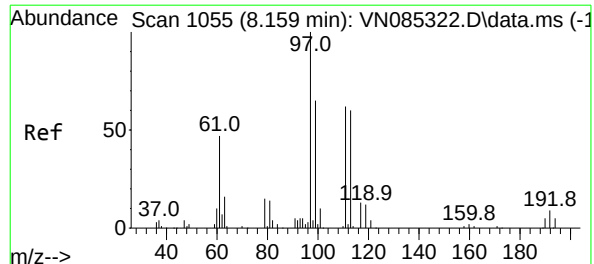
Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.4

88 15.1 0.0 33.6





#35

Dibromofluoromethane

Concen: 18.810 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:113 Resp: 30693

Ion Ratio Lower Upper

113 100

111 105.6 80.5 120.7

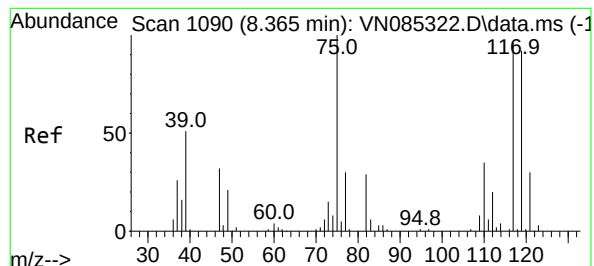
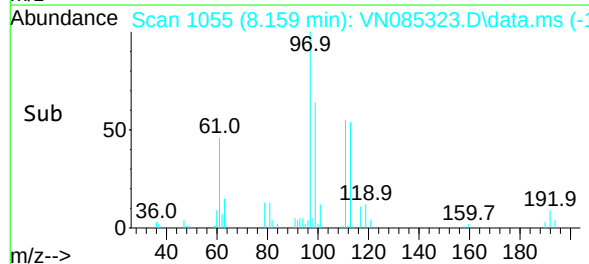
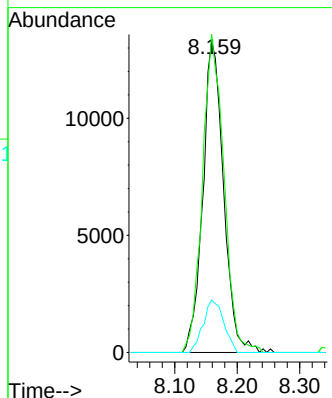
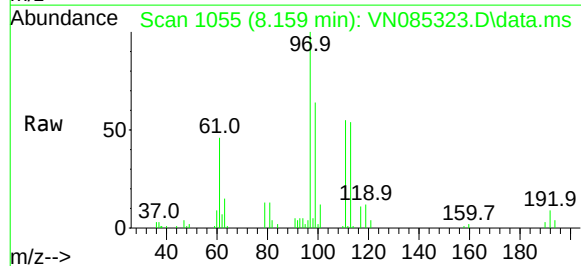
192 16.7 12.9 19.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#36

1,1-Dichloropropene

Concen: 20.861 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

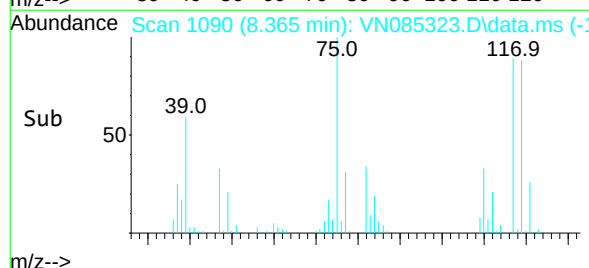
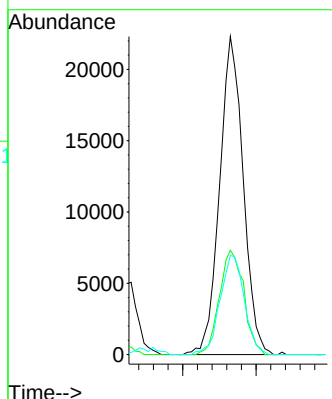
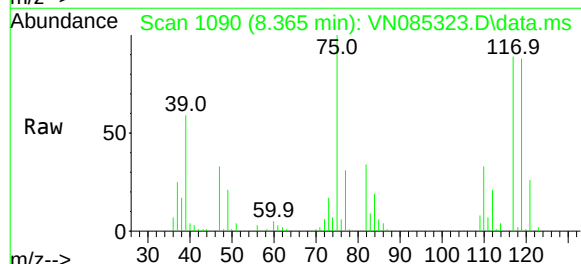
Tgt Ion: 75 Resp: 49840

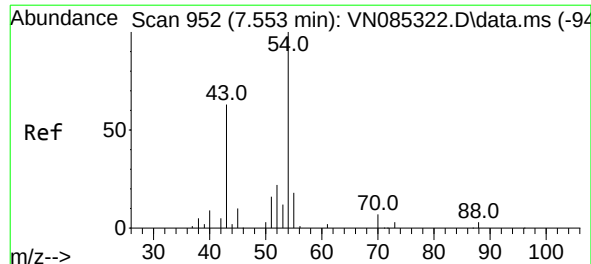
Ion Ratio Lower Upper

75 100

110 33.8 16.6 49.8

77 32.1 24.3 36.5





#37

Ethyl Acetate

Concen: 20.937 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

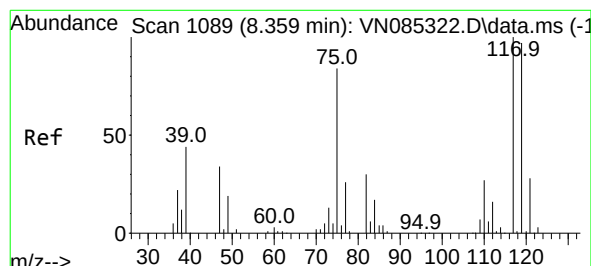
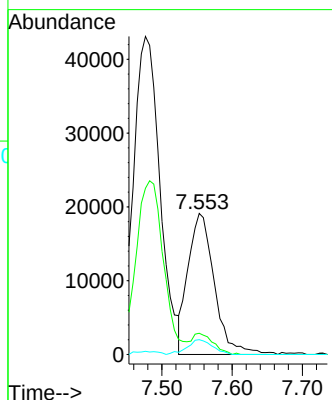
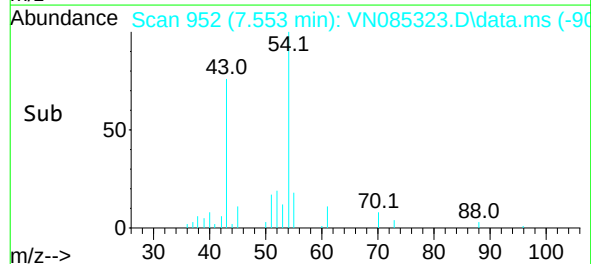
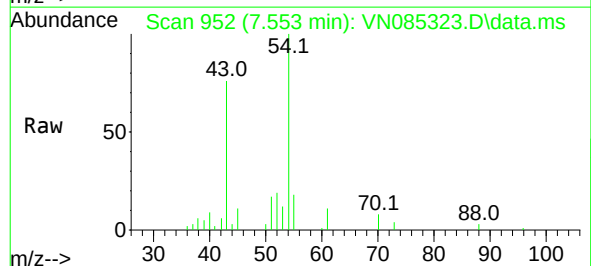
ClientSampleId :

VSTDICC020

Tgt Ion:	43	Resp:	49720
Ion	Ratio	Lower	Upper
43	100		
61	12.3	10.4	15.6
70	10.0	8.2	12.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#38

Carbon Tetrachloride

Concen: 21.445 ug/l

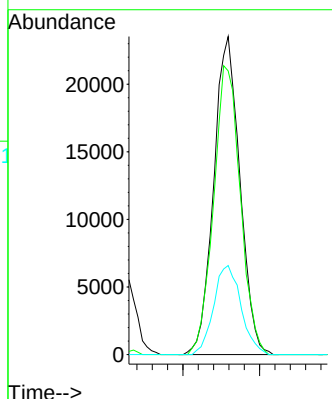
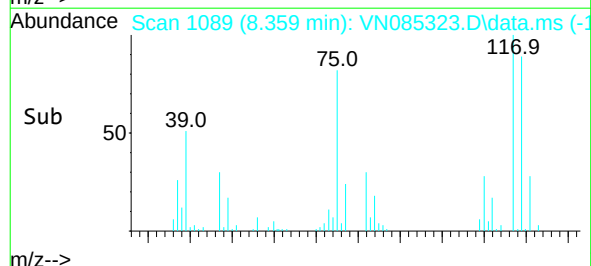
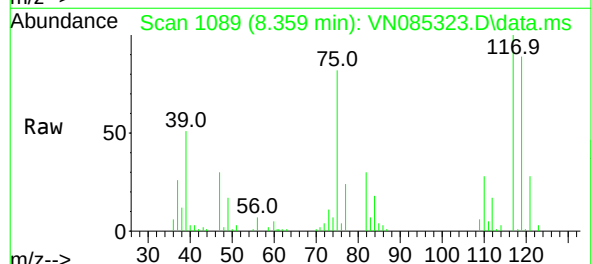
RT: 8.359 min Scan# 1089

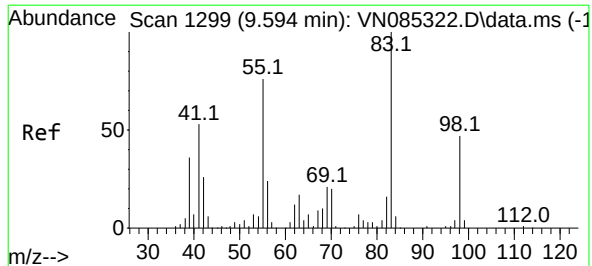
Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion:	117	Resp:	55847
Ion	Ratio	Lower	Upper
117	100		
119	89.2	77.8	116.6
121	28.0	22.5	33.7





#39

Methylcyclohexane

Concen: 21.633 ug/l

RT: 9.600 min Scan# 131

Delta R.T. 0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 53626

Ion Ratio Lower Upper

83 100

55 76.0 60.7 91.1

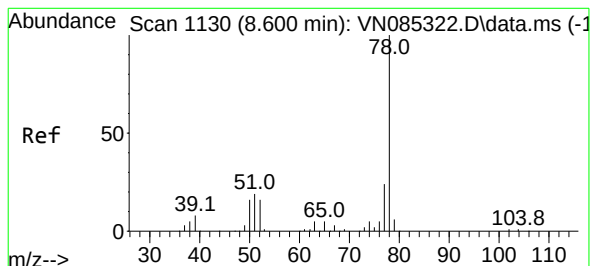
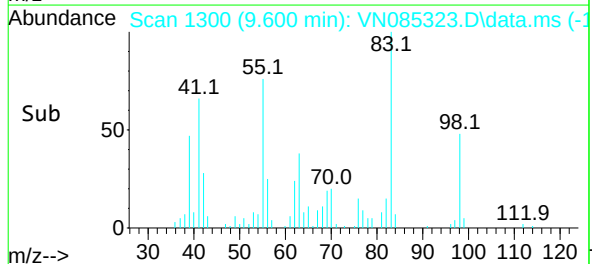
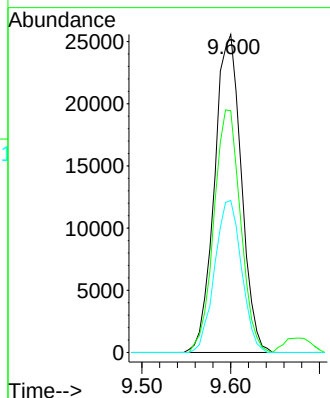
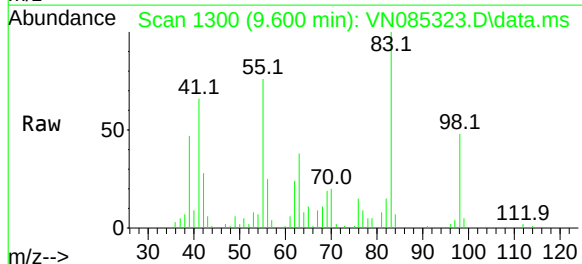
98 47.8 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#40

Benzene

Concen: 21.450 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN085323.D

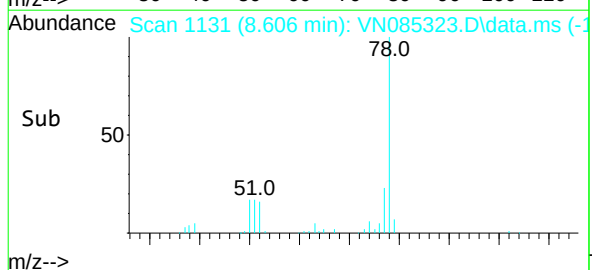
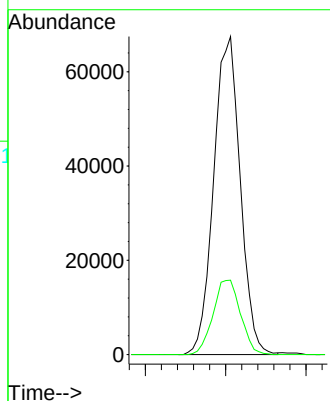
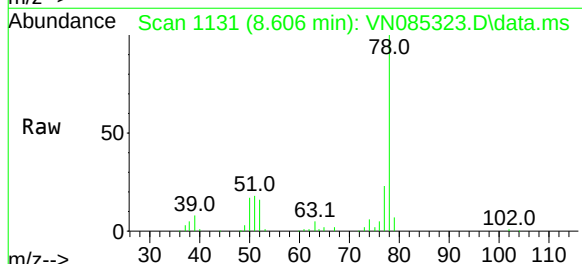
Acq: 27 Dec 2024 11:13

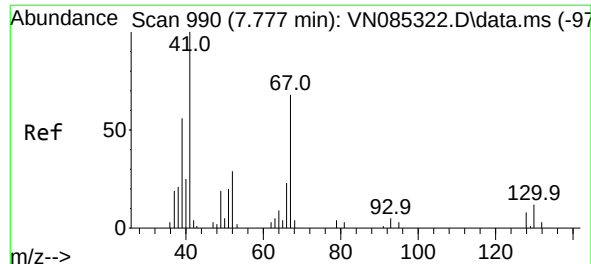
Tgt Ion: 78 Resp: 154946

Ion Ratio Lower Upper

78 100

77 23.4 19.0 28.4





#41

Methacrylonitrile

Concen: 21.079 ug/l

RT: 7.771 min Scan# 98

Delta R.T. -0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 41 Resp: 25636

Ion Ratio Lower Upper

41 100

39 58.5 45.8 68.8

67 72.8 57.1 85.7

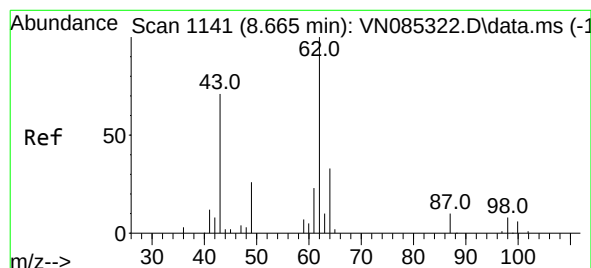
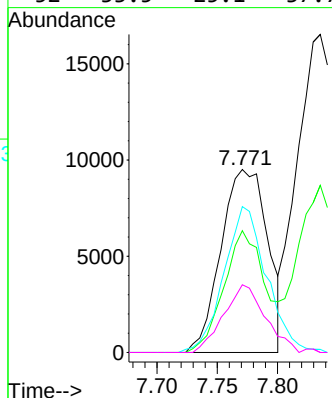
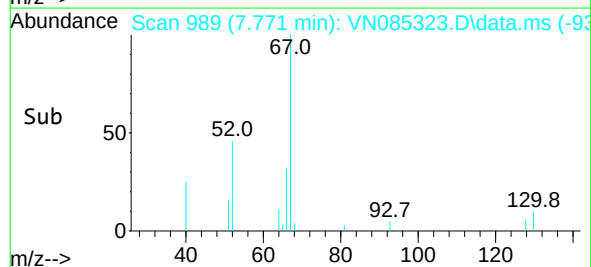
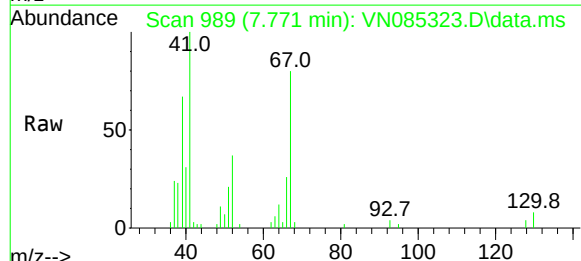
52 33.5 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#42

1,2-Dichloroethane

Concen: 22.046 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085323.D

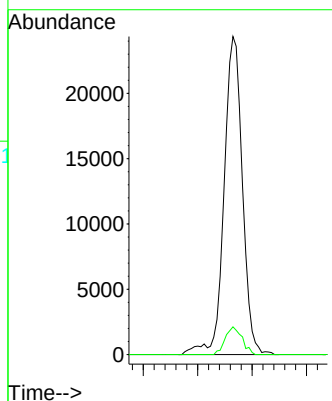
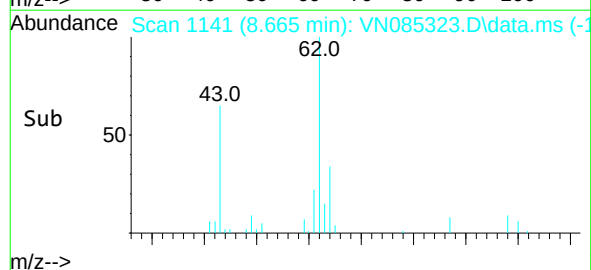
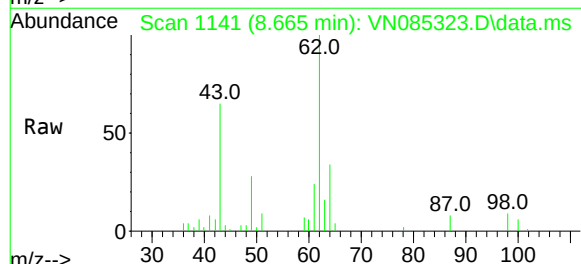
Acq: 27 Dec 2024 11:13

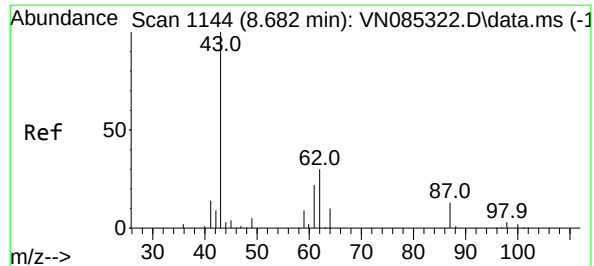
Tgt Ion: 62 Resp: 57096

Ion Ratio Lower Upper

62 100

98 8.0 0.0 17.6





#43

Isopropyl Acetate

Concen: 21.117 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 82570

Ion Ratio Lower Upper

43 100

61 25.1 20.8 31.2

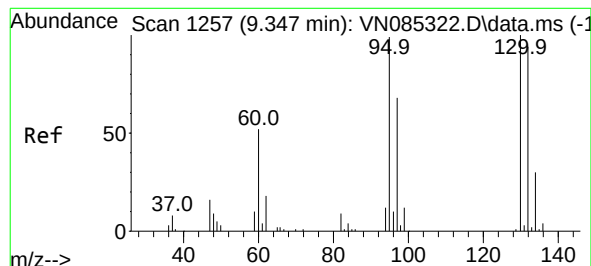
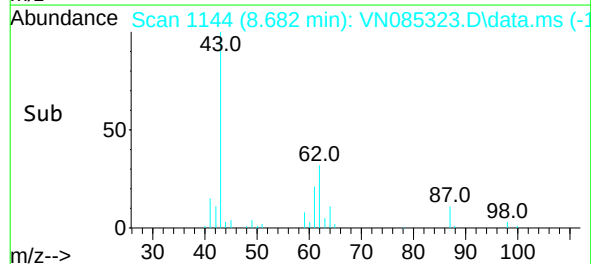
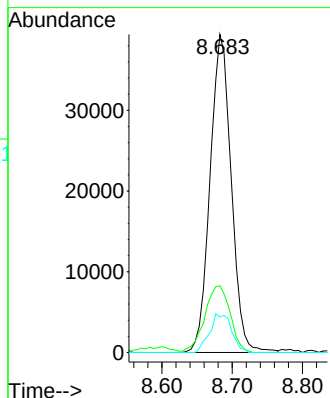
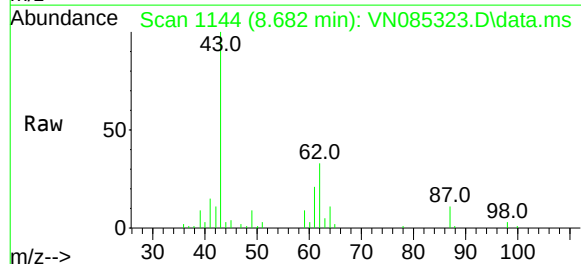
87 12.6 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#44

Trichloroethene

Concen: 21.104 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085323.D

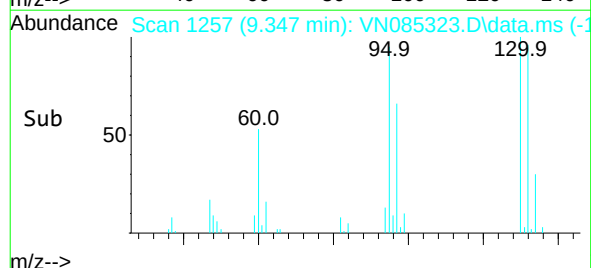
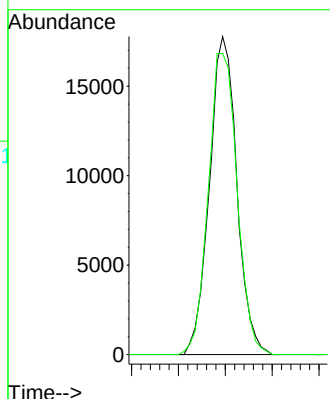
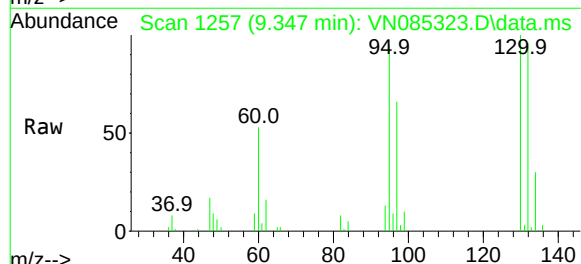
Acq: 27 Dec 2024 11:13

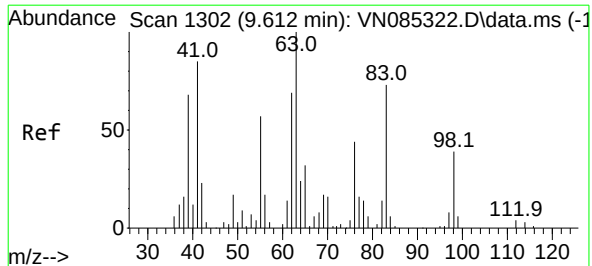
Tgt Ion:130 Resp: 36092

Ion Ratio Lower Upper

130 100

95 94.6 0.0 197.8





#45

1,2-Dichloropropane

Concen: 21.486 ug/l

RT: 9.618 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 39400

Ion Ratio Lower Upper

63 100

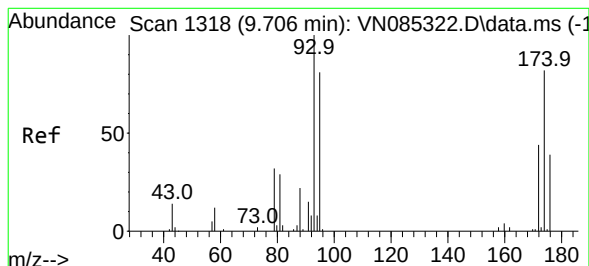
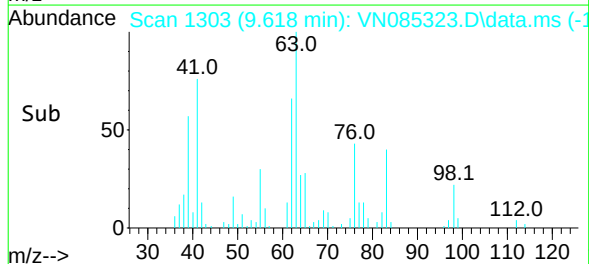
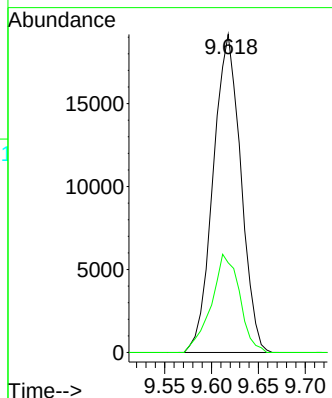
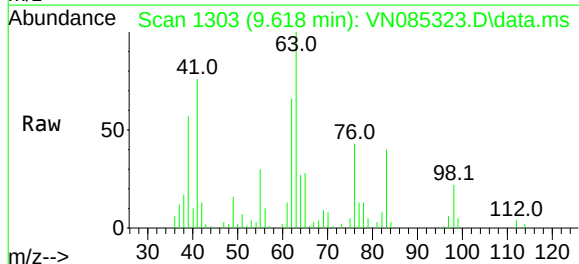
65 28.2 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#46

Dibromomethane

Concen: 21.000 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

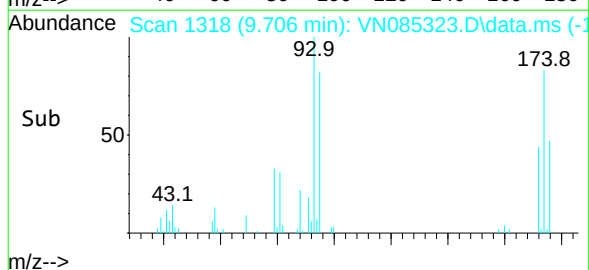
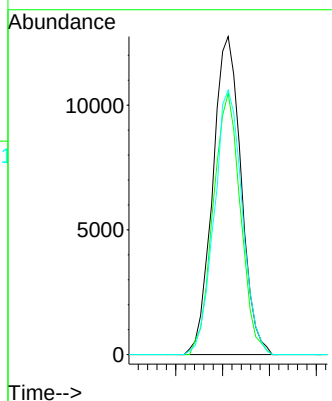
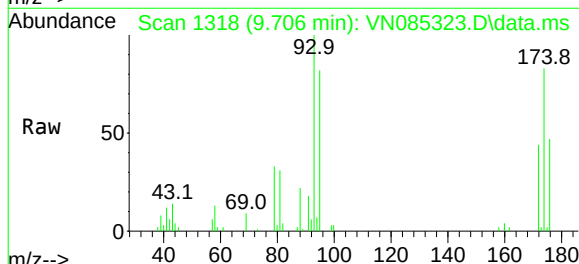
Tgt Ion: 93 Resp: 26782

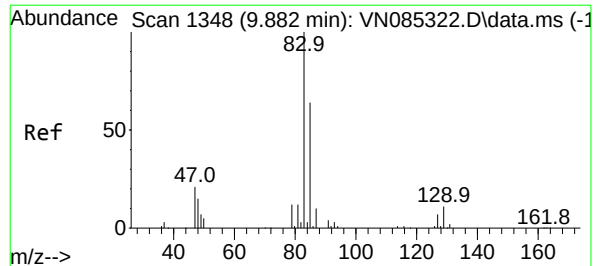
Ion Ratio Lower Upper

93 100

95 79.1 65.3 97.9

174 82.0 66.4 99.6





#47

Bromodichloromethane

Concen: 20.894 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

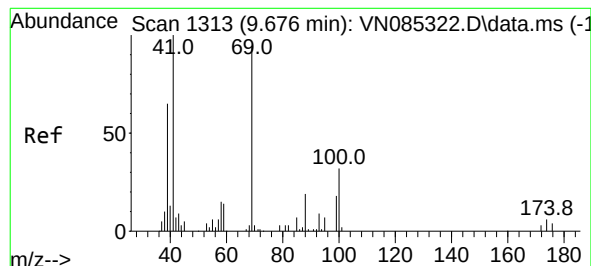
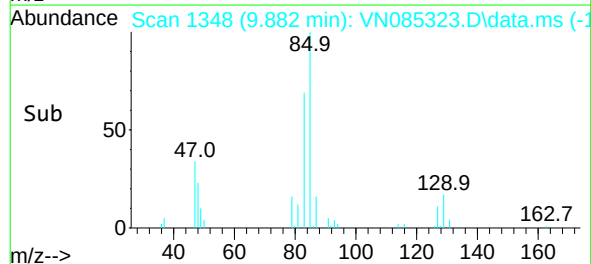
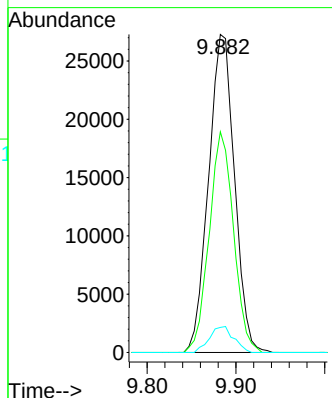
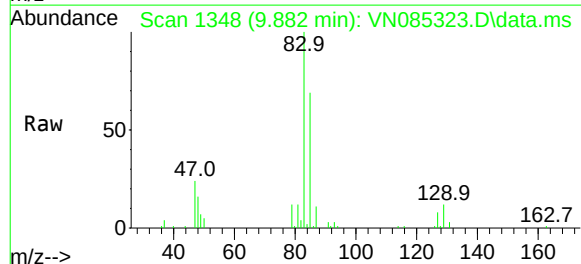
ClientSampleId :

VSTDIC020

Tgt Ion:	83	Resp:	55383
Ion	Ratio	Lower	Upper
83	100		
85	69.4	51.0	76.4
127	7.9	5.8	8.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#48

Methyl methacrylate

Concen: 21.744 ug/l

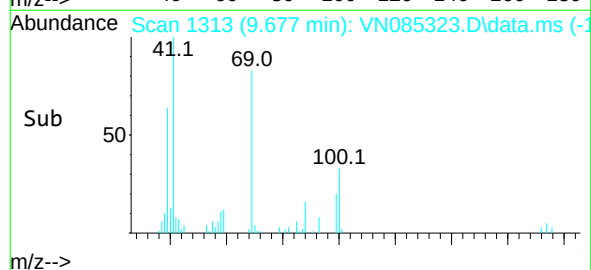
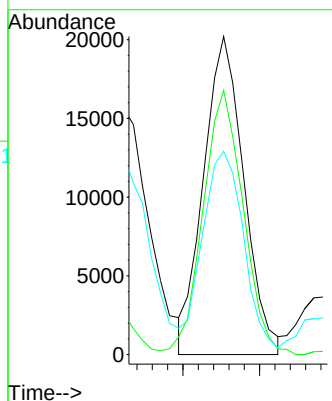
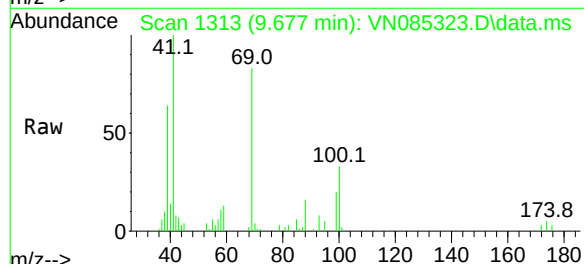
RT: 9.677 min Scan# 1313

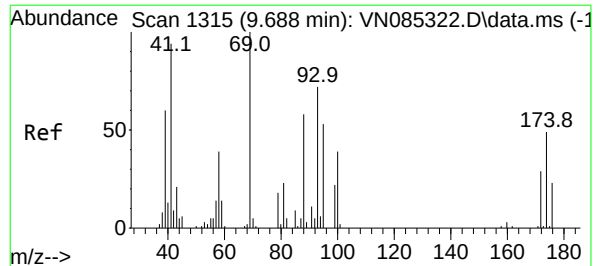
Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

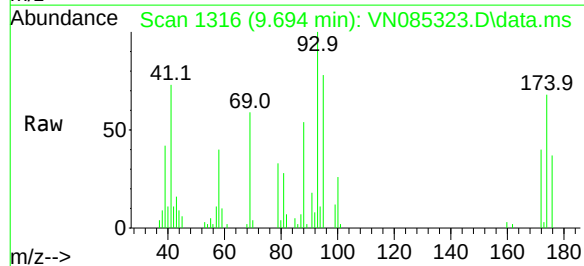
Tgt Ion:	41	Resp:	36893
Ion	Ratio	Lower	Upper
41	100		
69	82.6	67.7	101.5
39	66.0	51.2	76.8





#49
1,4-Dioxane
Concen: 461.104 ug/l
RT: 9.694 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VN085323.D
Acq: 27 Dec 2024 11:13

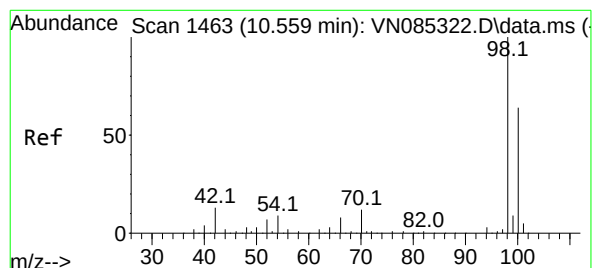
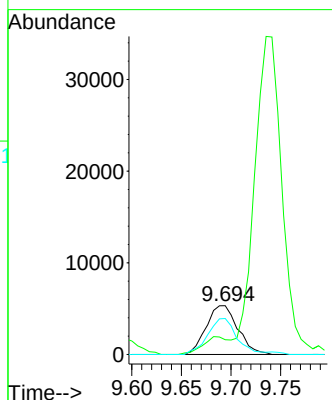
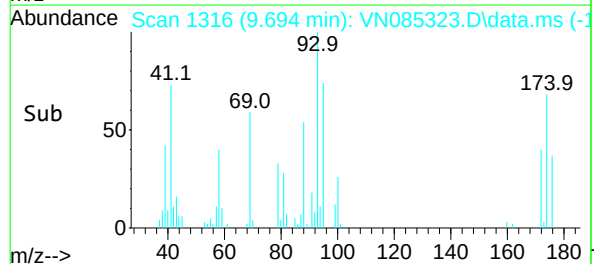
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020



Tgt Ion: 88 Resp: 11804
Ion Ratio Lower Upper
88 100
43 31.0 22.1 33.1
58 70.4 56.7 85.1

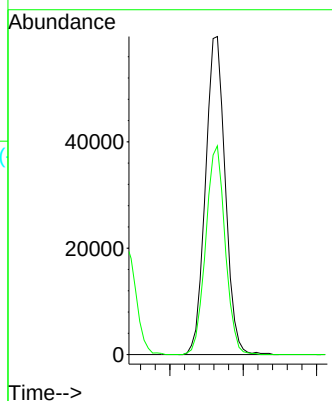
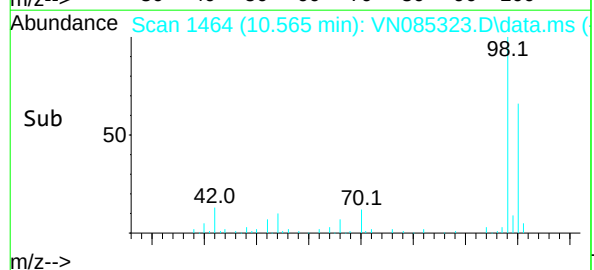
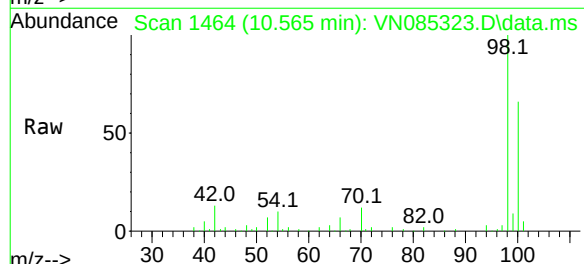
Manual Integrations
APPROVED

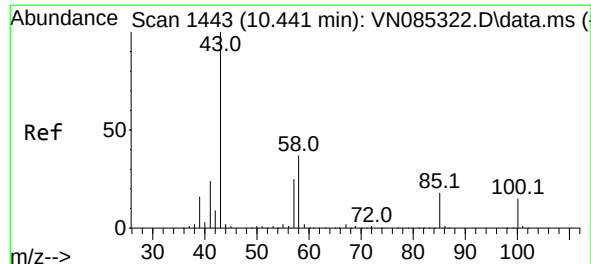
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#50
Toluene-d8
Concen: 18.702 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VN085323.D
Acq: 27 Dec 2024 11:13

Tgt Ion: 98 Resp: 111985
Ion Ratio Lower Upper
98 100
100 64.5 51.5 77.3





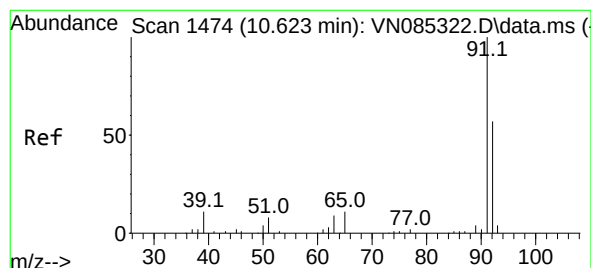
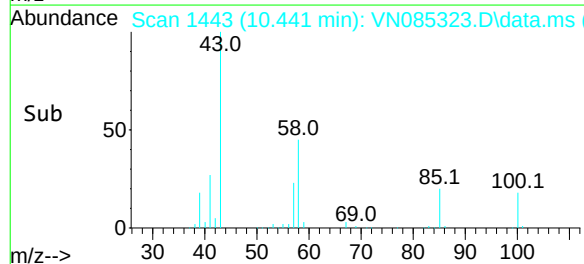
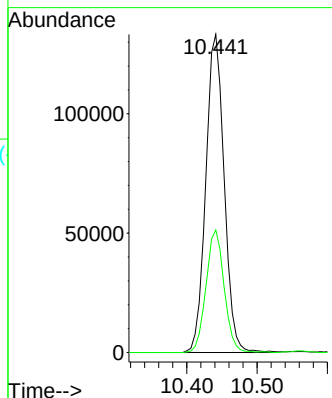
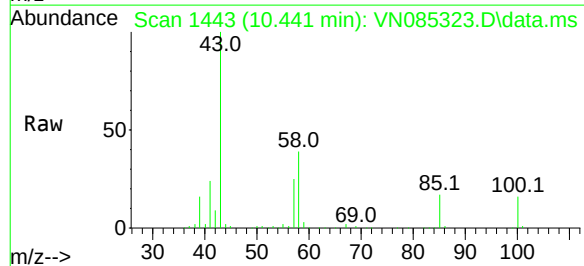
#51
4-Methyl-2-Pentanone
Concen: 110.019 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085323.D
Acq: 27 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 241756
Ion Ratio Lower Upper
43 100
58 38.1 30.3 45.5

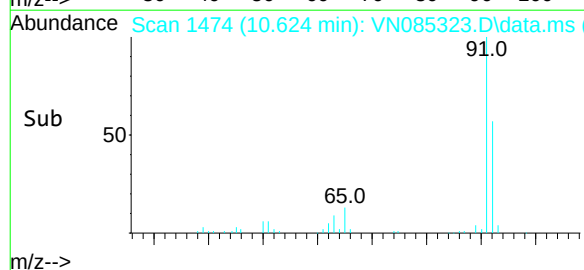
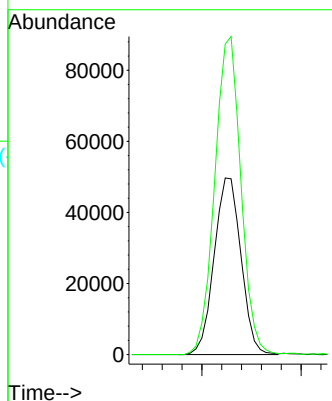
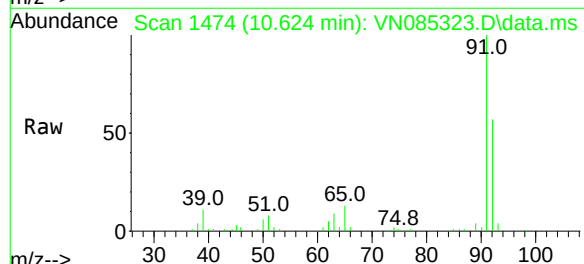
Manual Integrations
APPROVED

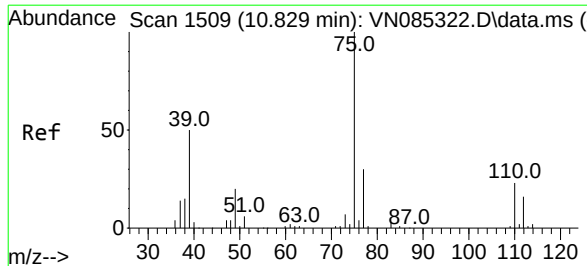
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#52
Toluene
Concen: 21.702 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VN085323.D
Acq: 27 Dec 2024 11:13

Tgt Ion: 92 Resp: 93343
Ion Ratio Lower Upper
92 100
91 175.8 140.2 210.4





#53

t-1,3-Dichloropropene

Concen: 21.132 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 55084

Ion Ratio Lower Upper

75 100

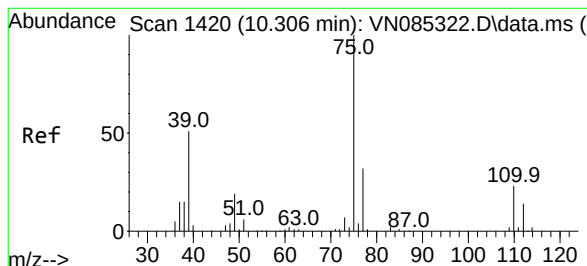
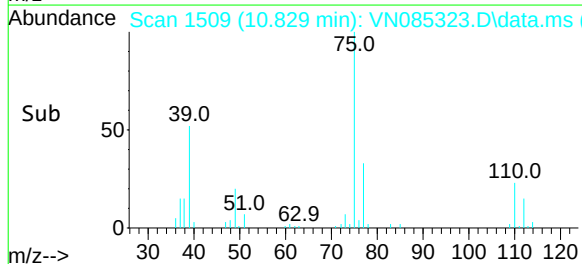
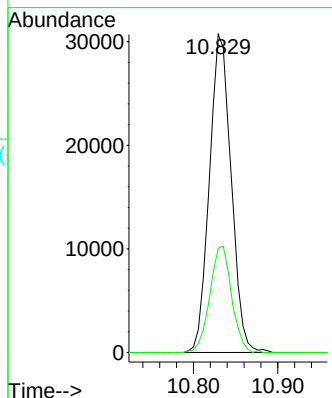
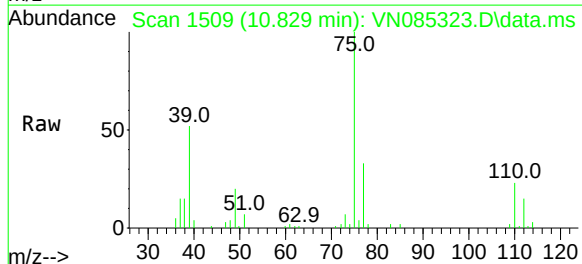
77 32.7 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#54

cis-1,3-Dichloropropene

Concen: 21.718 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

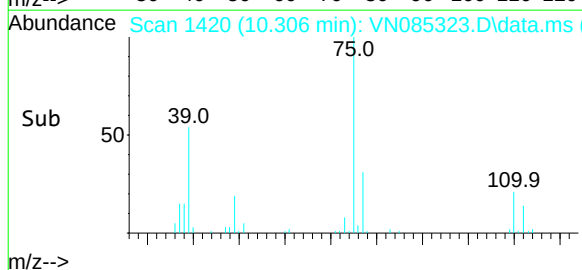
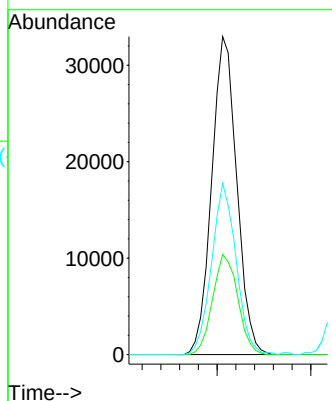
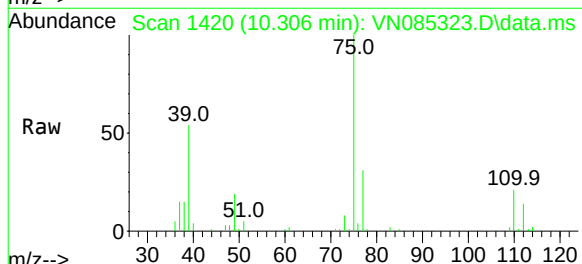
Tgt Ion: 75 Resp: 61217

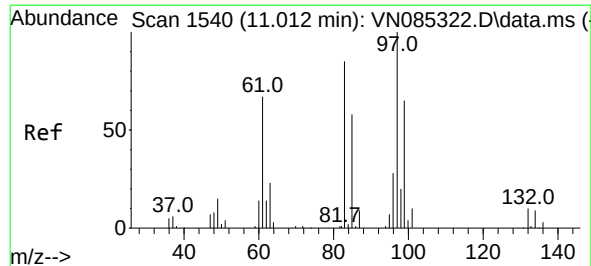
Ion Ratio Lower Upper

75 100

77 31.5 25.5 38.3

39 53.8 40.5 60.7





#55

1,1,2-Trichloroethane

Concen: 20.604 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 33459

Ion Ratio Lower Upper

97 100

83 91.3 67.7 101.5

85 58.2 46.2 69.4

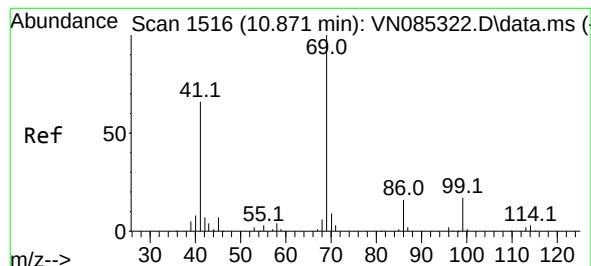
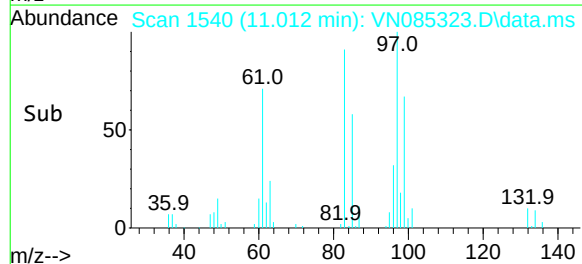
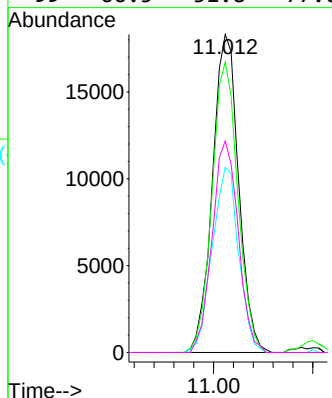
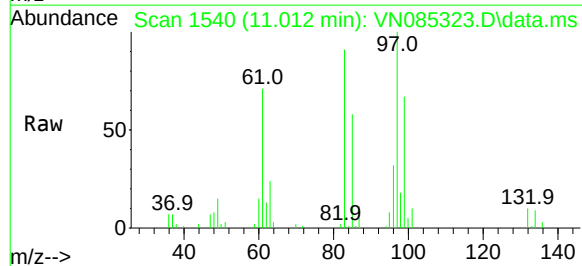
99 66.5 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#56

Ethyl methacrylate

Concen: 22.458 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

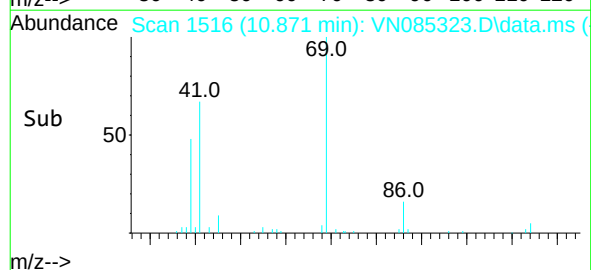
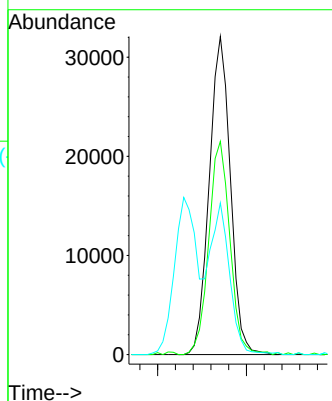
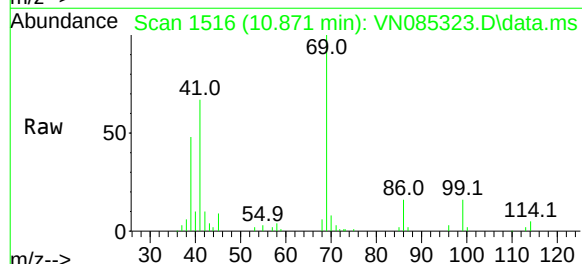
Tgt Ion: 69 Resp: 53114

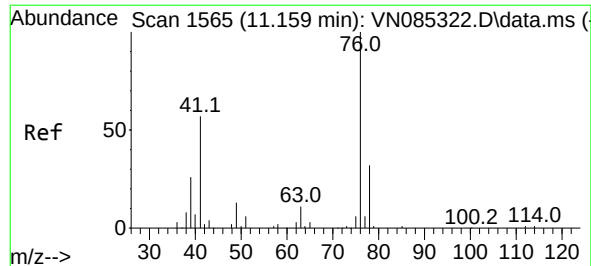
Ion Ratio Lower Upper

69 100

41 67.0 54.3 81.5

39 42.5 32.0 48.0





#57

1,3-Dichloropropane

Concen: 21.643 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 61684

Ion Ratio Lower Upper

76 100

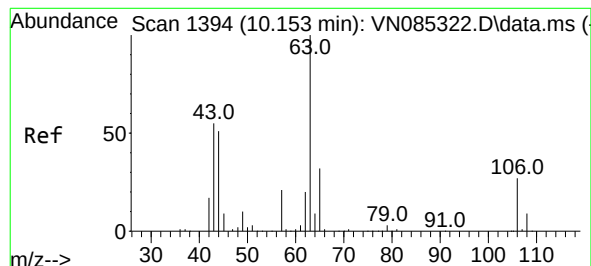
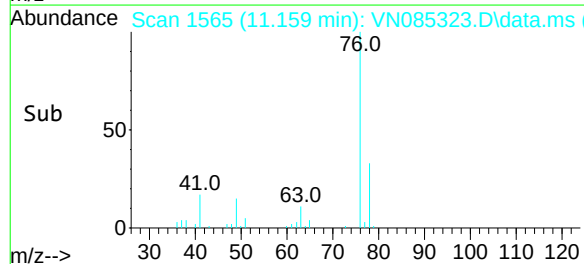
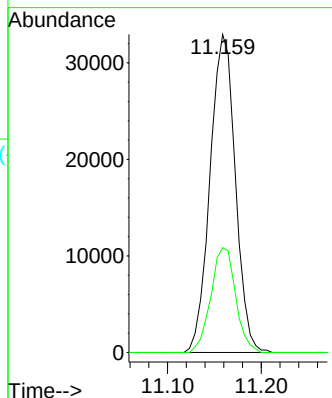
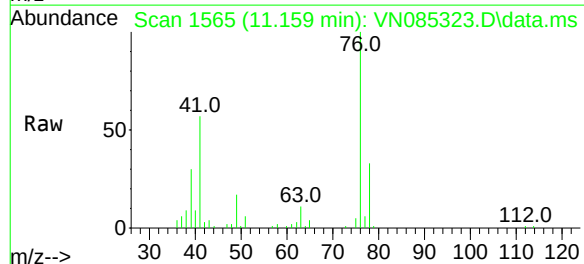
78 32.3 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#58

2-Chloroethyl Vinyl ether

Concen: 103.539 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VN085323.D

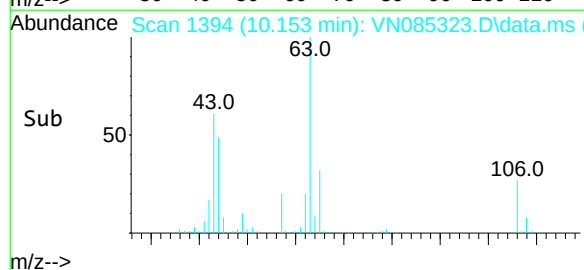
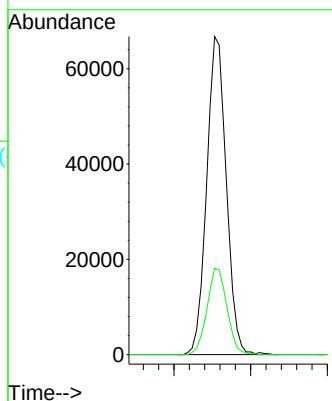
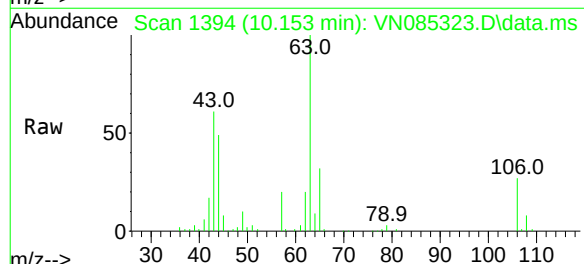
Acq: 27 Dec 2024 11:13

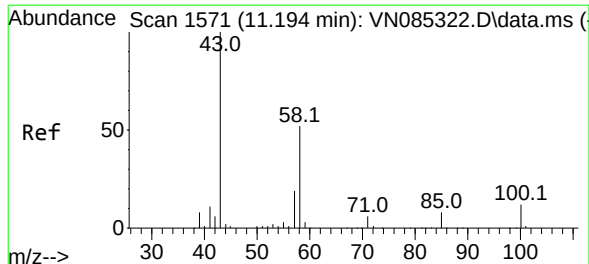
Tgt Ion: 63 Resp: 118474

Ion Ratio Lower Upper

63 100

106 27.6 22.1 33.1





#59

2-Hexanone

Concen: 112.081 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 170875

Ion Ratio Lower Upper

43 100

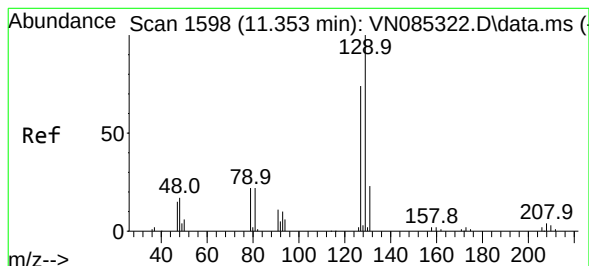
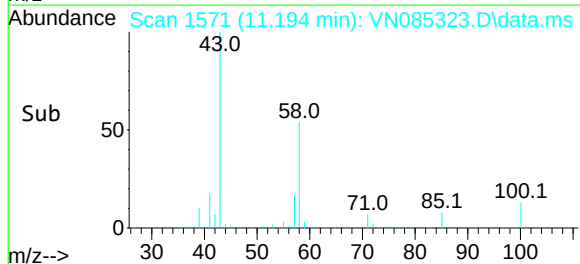
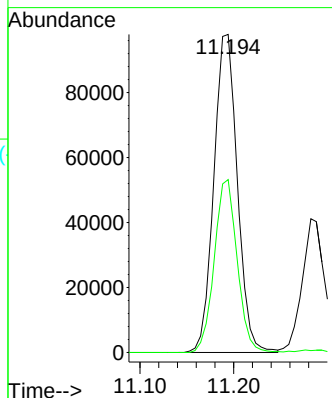
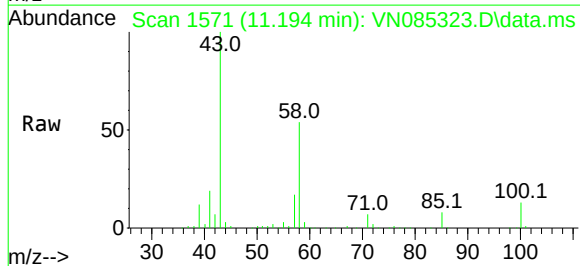
58 52.9 26.5 79.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#60

Dibromochloromethane

Concen: 21.617 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.006 min

Lab File: VN085323.D

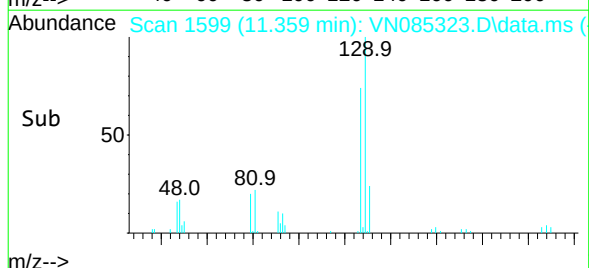
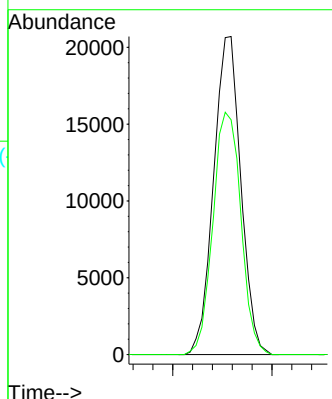
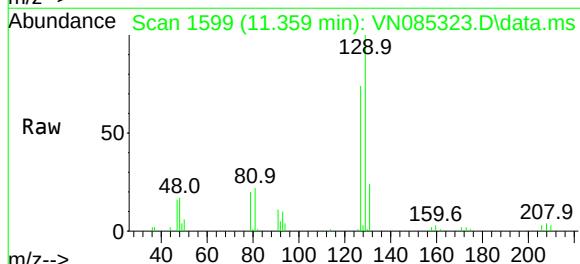
Acq: 27 Dec 2024 11:13

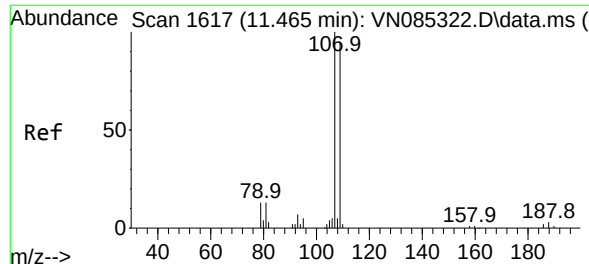
Tgt Ion:129 Resp: 39538

Ion Ratio Lower Upper

129 100

127 78.2 38.3 114.9





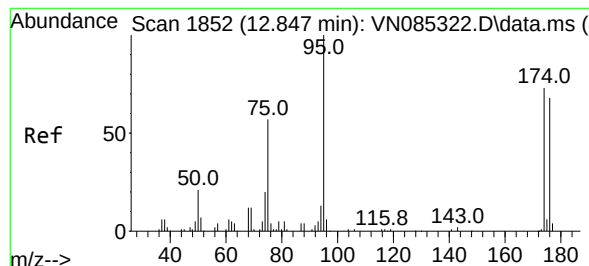
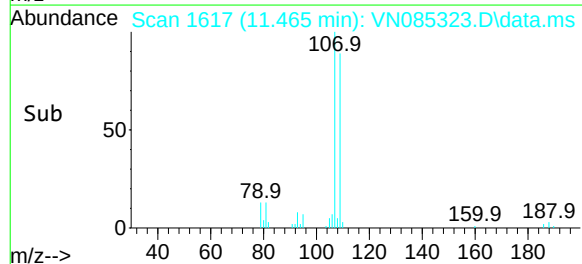
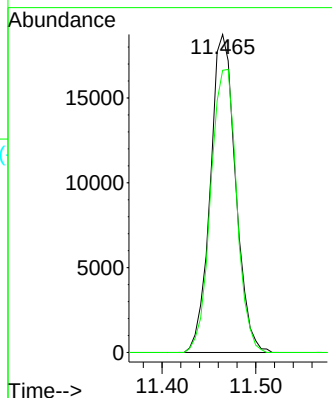
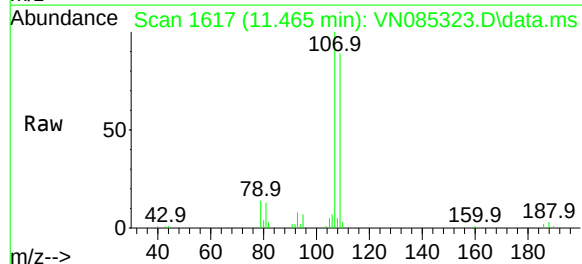
#61
1,2-Dibromoethane
Concen: 21.807 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085323.D
Acq: 27 Dec 2024 11:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 107 Resp: 35034
Ion Ratio Lower Upper
107 100
109 91.4 74.9 112.3

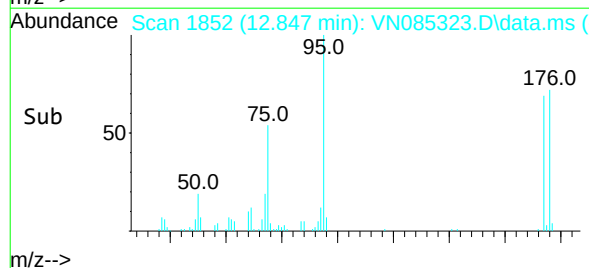
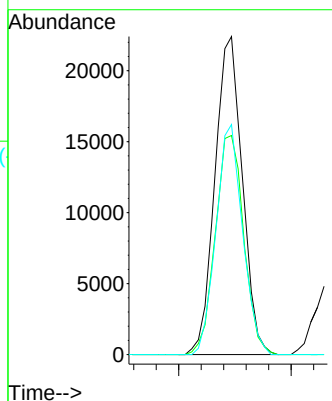
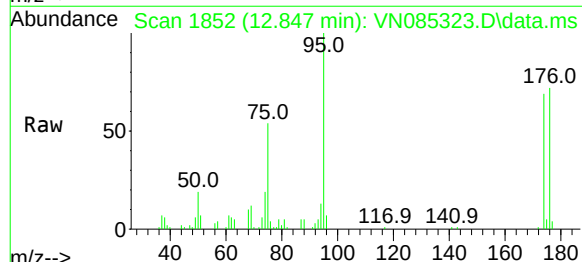
Manual Integrations
APPROVED

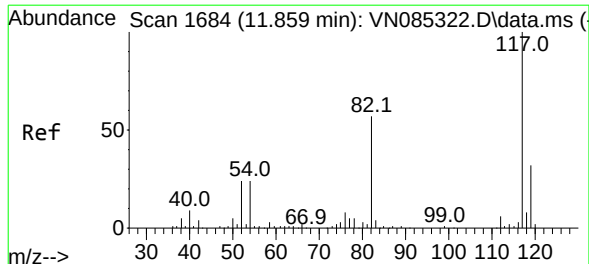
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#62
4-Bromofluorobenzene
Concen: 19.067 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085323.D
Acq: 27 Dec 2024 11:13

Tgt Ion: 95 Resp: 37918
Ion Ratio Lower Upper
95 100
174 71.4 0.0 143.2
176 70.1 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 1684

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:117 Resp: 224166

Ion Ratio Lower Upper

117 100

82 59.5 45.7 68.5

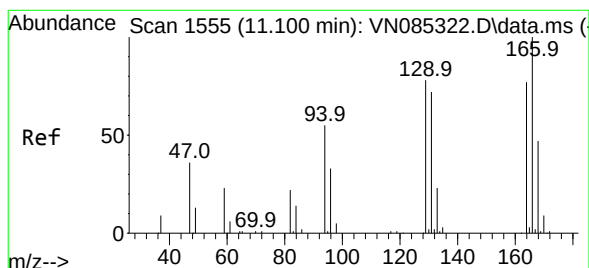
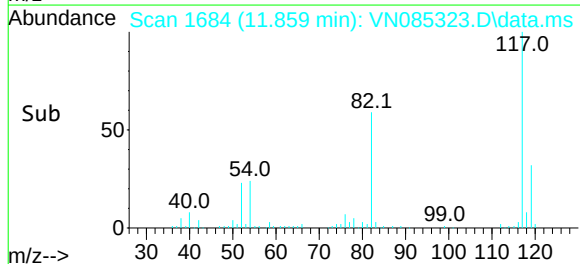
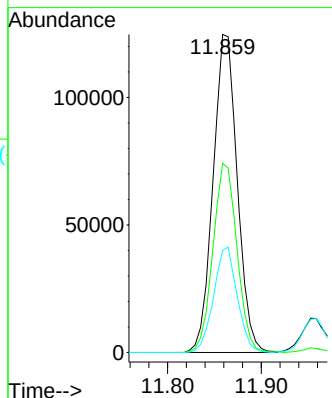
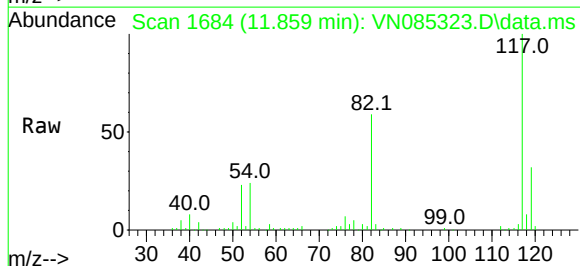
119 32.1 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#64

Tetrachloroethene

Concen: 21.718 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion:164 Resp: 30849

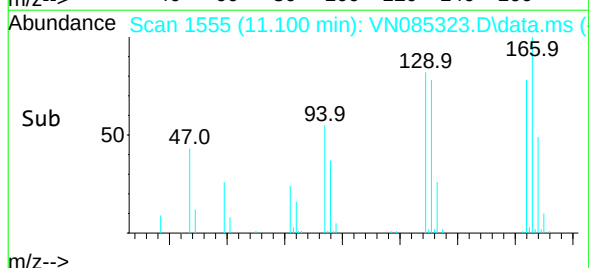
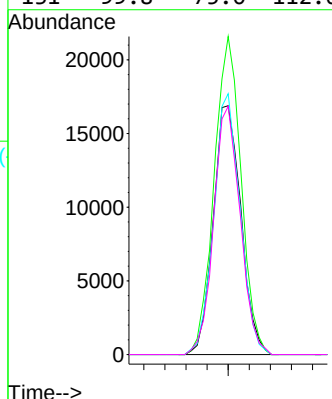
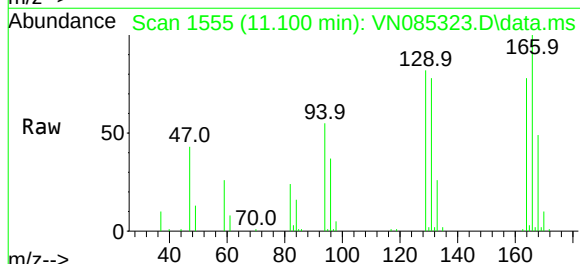
Ion Ratio Lower Upper

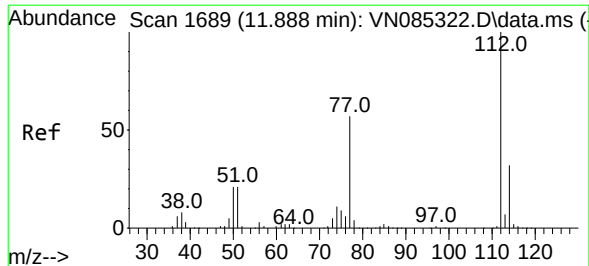
164 100

166 127.8 104.0 156.0

129 104.8 81.3 121.9

131 99.8 75.0 112.6





#65

Chlorobenzene

Concen: 20.938 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:112 Resp: 101427

Ion Ratio Lower Upper

112 100

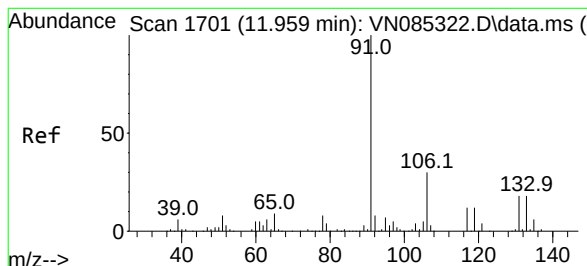
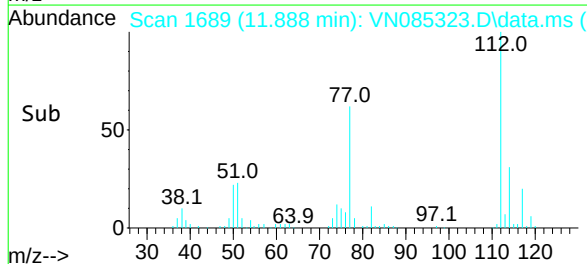
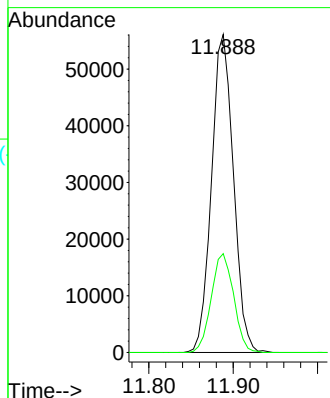
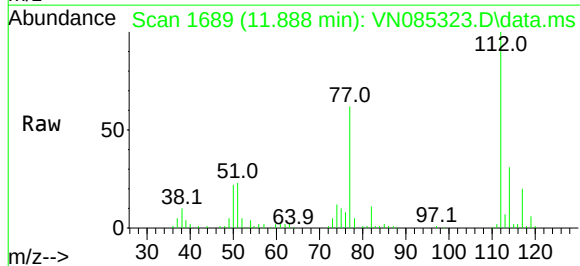
114 31.1 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 21.546 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

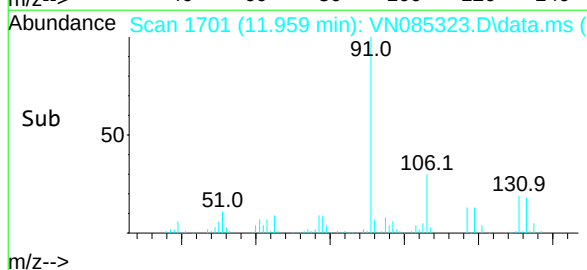
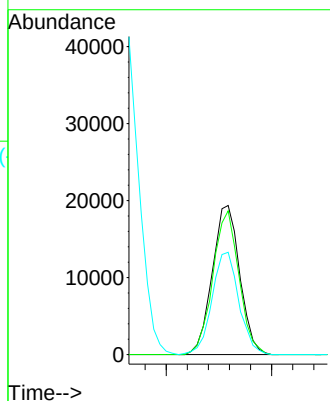
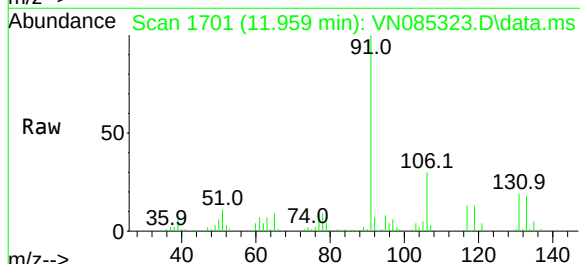
Tgt Ion:131 Resp: 35030

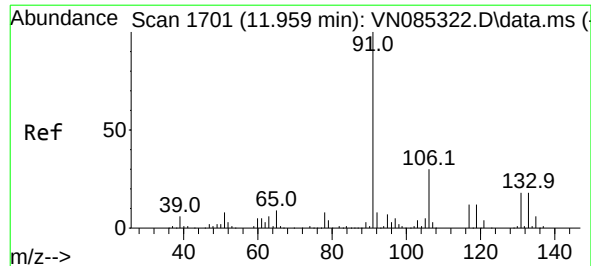
Ion Ratio Lower Upper

131 100

133 91.8 48.3 144.9

119 67.1 33.4 100.1





#67

Ethyl Benzene

Concen: 21.640 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 174337

Ion Ratio Lower Upper

91 100

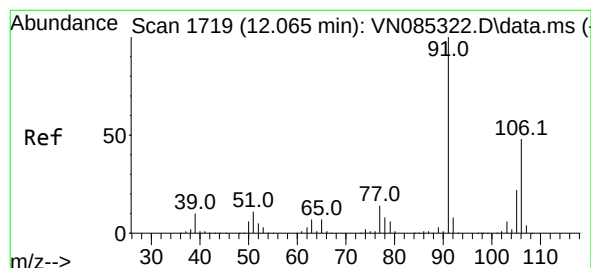
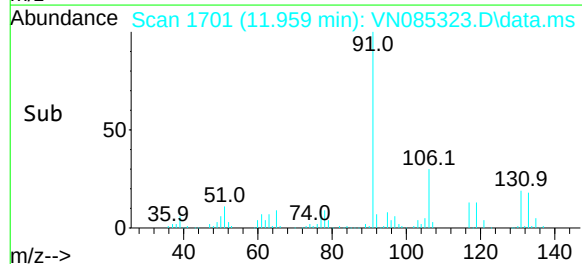
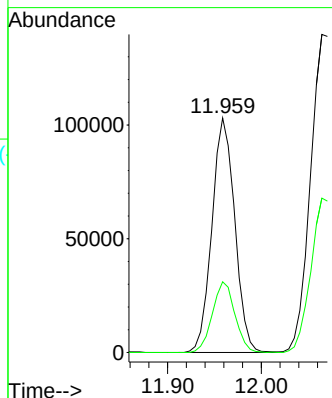
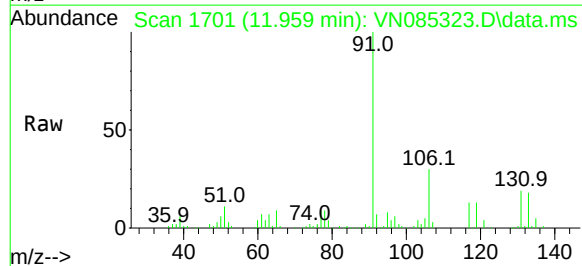
106 30.1 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#68

m/p-Xylenes

Concen: 44.993 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085323.D

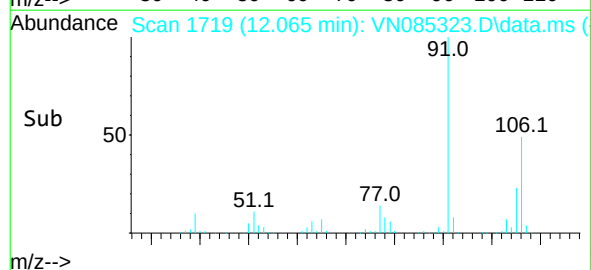
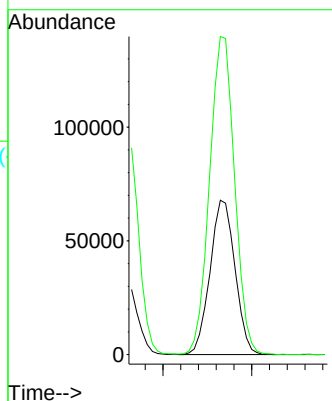
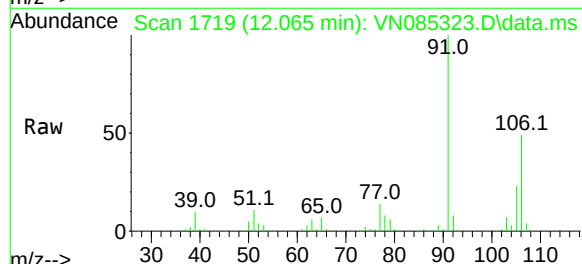
Acq: 27 Dec 2024 11:13

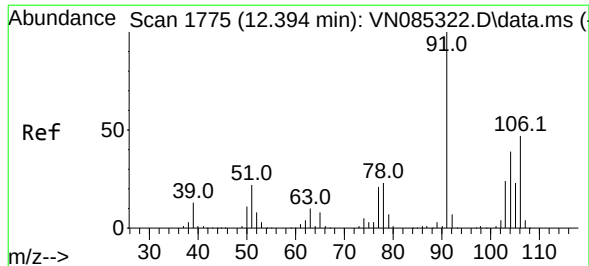
Tgt Ion:106 Resp: 132648

Ion Ratio Lower Upper

106 100

91 206.5 165.2 247.8





#69

o-Xylene

Concen: 22.091 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:106 Resp: 63003

Ion Ratio Lower Upper

106 100

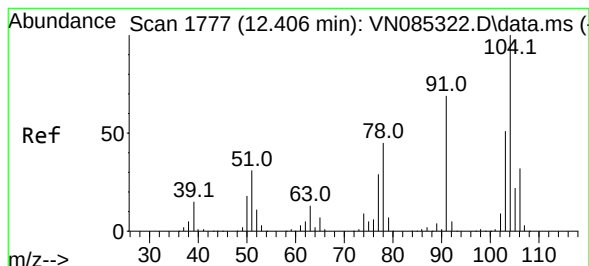
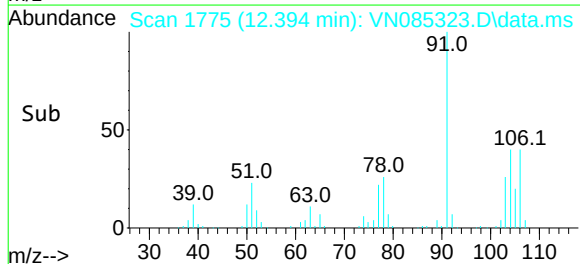
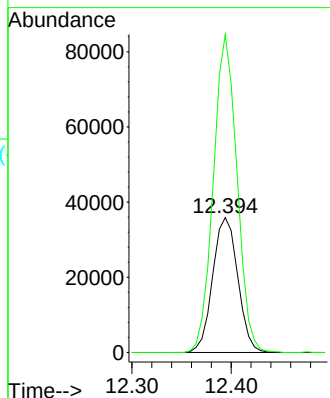
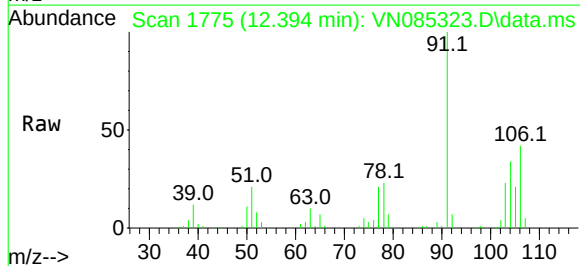
91 222.2 107.3 321.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#70

Styrene

Concen: 22.728 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

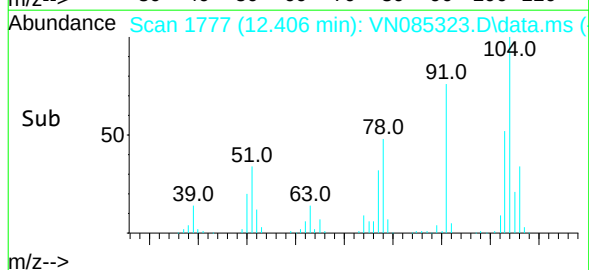
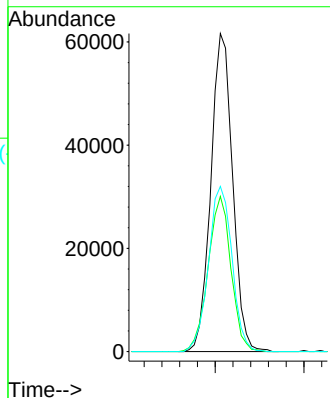
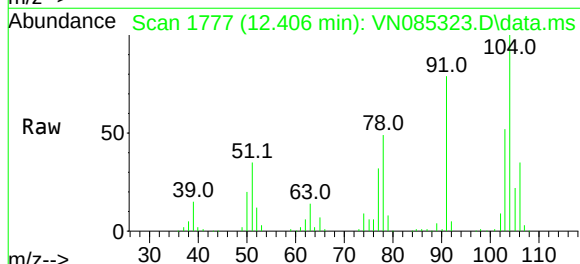
Tgt Ion:104 Resp: 105054

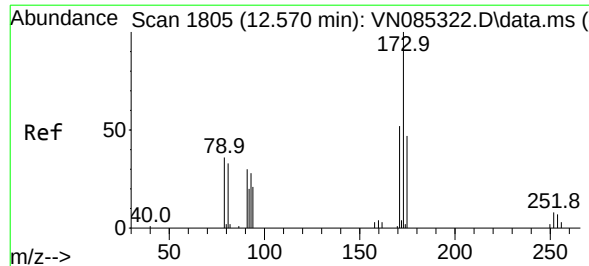
Ion Ratio Lower Upper

104 100

78 51.2 40.7 61.1

103 56.2 44.1 66.1





#71

Bromoform

Concen: 21.885 ug/l

RT: 12.570 min Scan# 1805

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

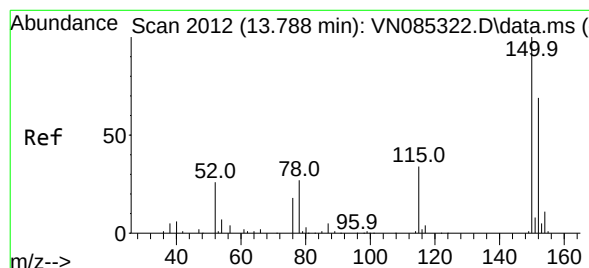
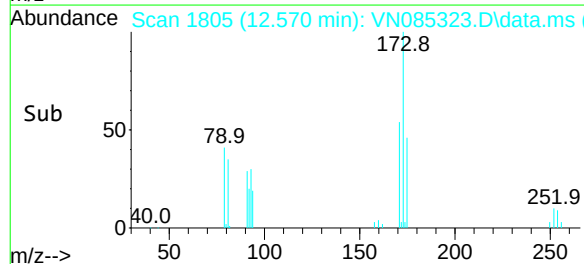
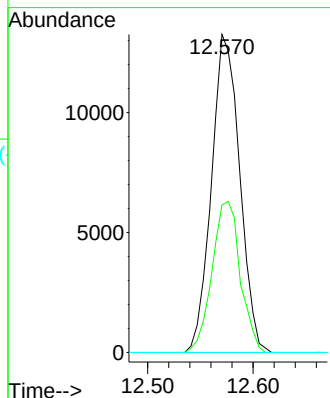
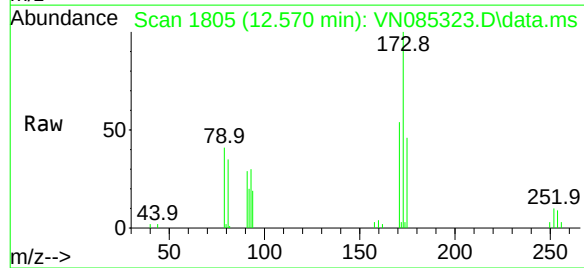
VSTDICC020

Tgt Ion:	173	Resp:	24644
Ion Ratio	Lower	Upper	
173	100		
175	47.5	24.4	73.4
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

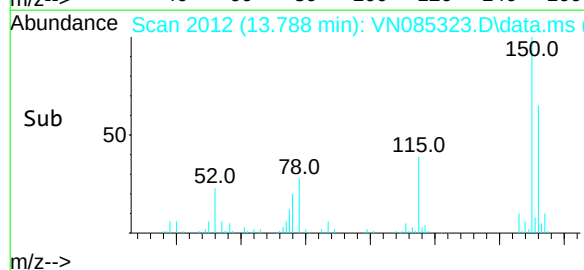
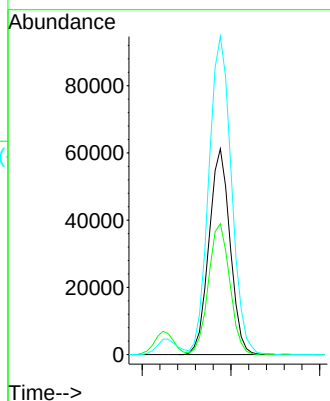
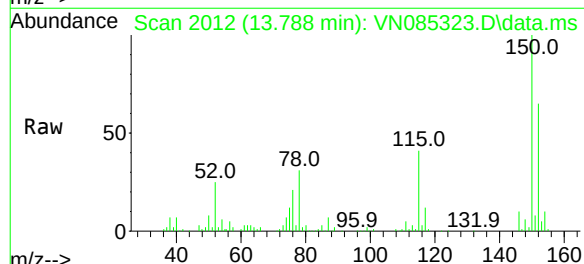
RT: 13.788 min Scan# 2012

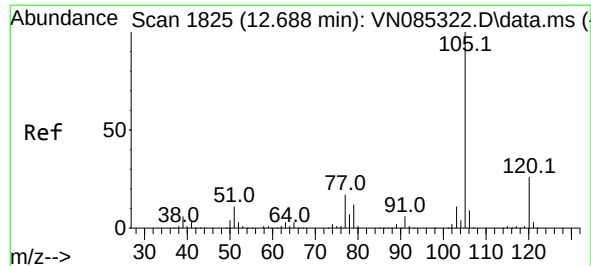
Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion:	152	Resp:	100909
Ion Ratio	Lower	Upper	
152	100		
115	64.4	30.4	91.3
150	166.0	0.0	345.0





#73

Isopropylbenzene

Concen: 22.153 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 105 Resp: 160752

Ion Ratio Lower Upper

105 100

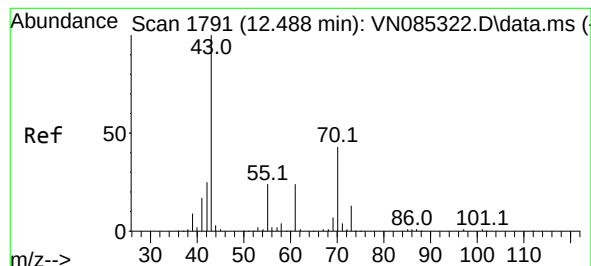
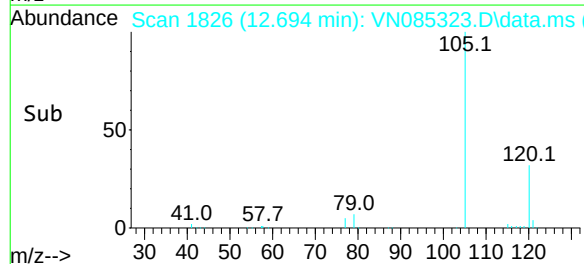
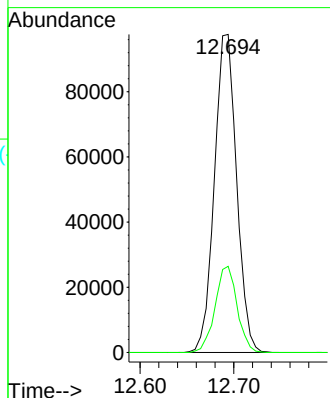
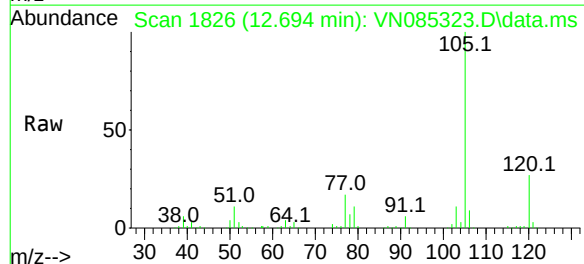
120 26.8 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#74

N-ethyl acetate

Concen: 22.517 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion: 43 Resp: 69938

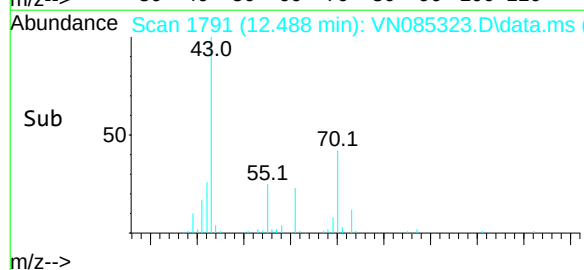
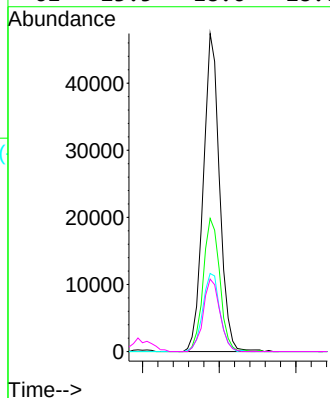
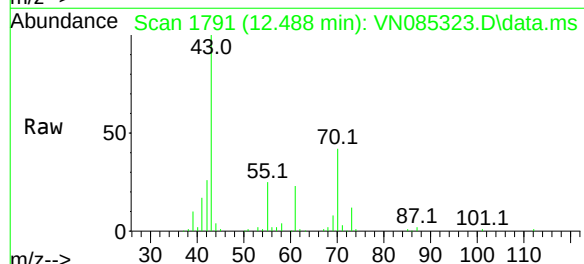
Ion Ratio Lower Upper

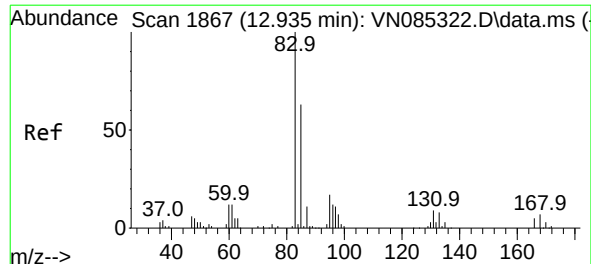
43 100

70 42.6 33.4 50.0

55 25.9 19.2 28.8

61 23.5 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.897 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

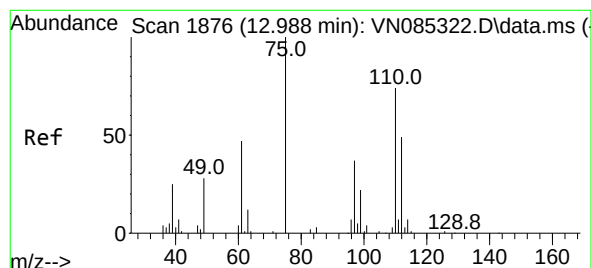
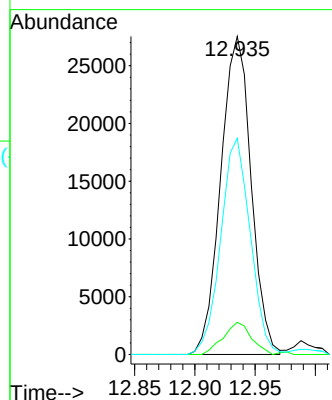
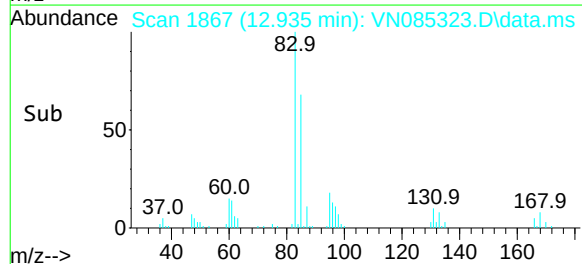
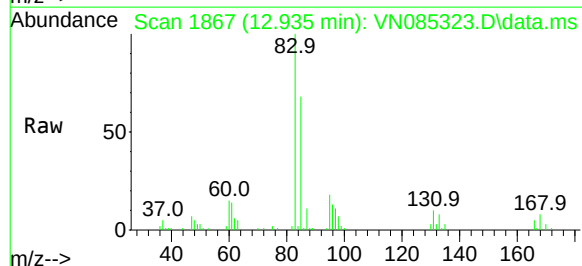
VSTDIC020

Tgt Ion:	83	Resp:	48294
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	66.2	32.6	98.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#76

1,2,3-Trichloropropane

Concen: 19.654 ug/l m

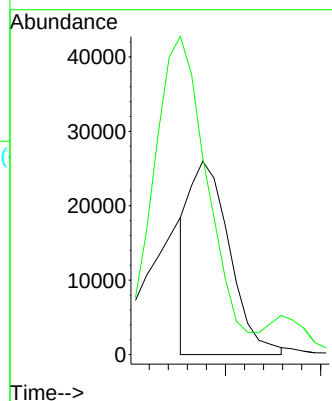
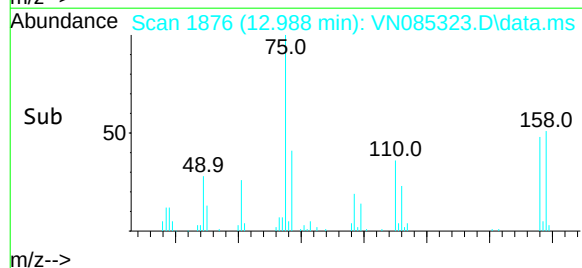
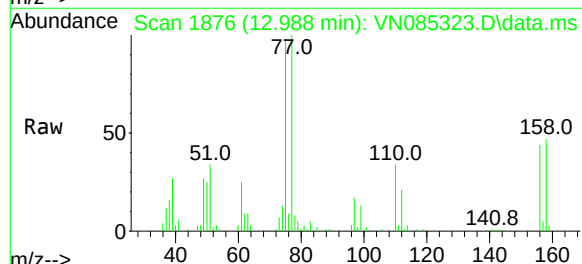
RT: 12.988 min Scan# 1876

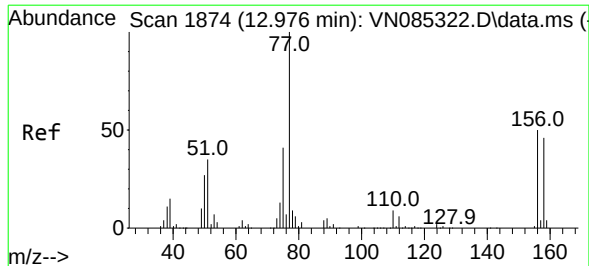
Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion:	75	Resp:	38100
Ion	Ratio	Lower	Upper
75	100		
77	226.6	98.1	294.3





#77

Bromobenzene

Concen: 20.623 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085323.D

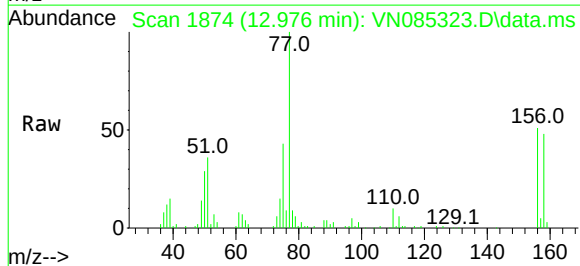
Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

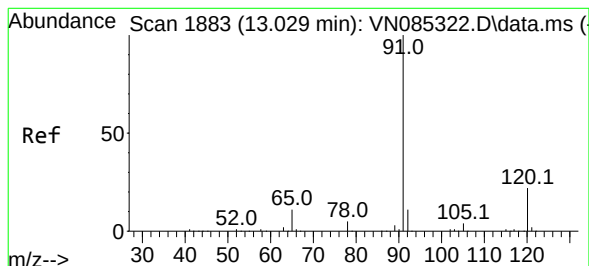
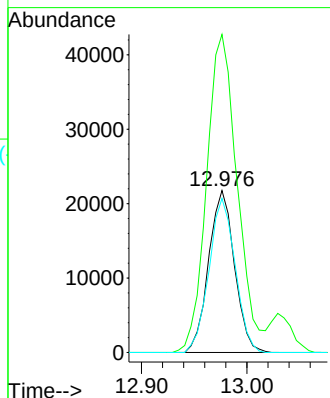
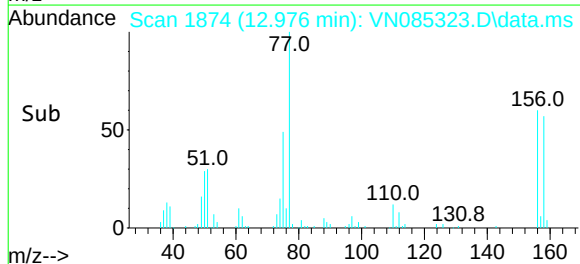
VSTDICC020



Tgt Ion:	156	Resp:	37077
Ion Ratio	Lower	Upper	
156	100		
77	232.8	114.0	342.0
158	96.3	47.6	142.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#78

n-propylbenzene

Concen: 22.243 ug/l

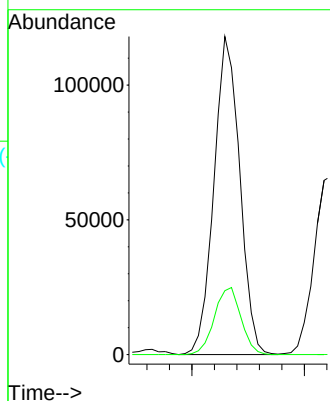
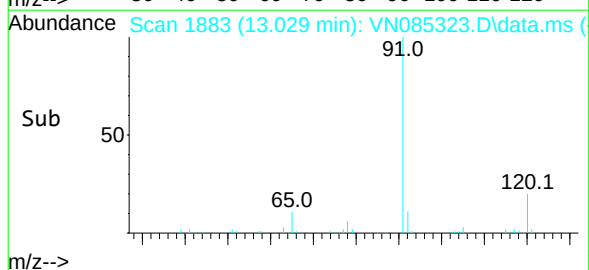
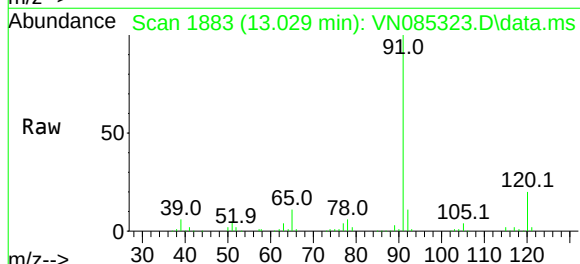
RT: 13.029 min Scan# 1883

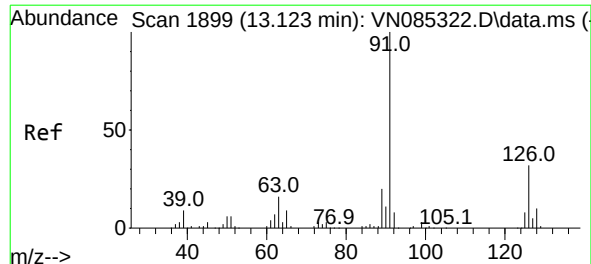
Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion:	91	Resp:	188143
Ion Ratio	Lower	Upper	
91	100		
120	21.7	10.9	32.9





#79

2-Chlorotoluene

Concen: 22.010 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 117169

Ion Ratio Lower Upper

91 100

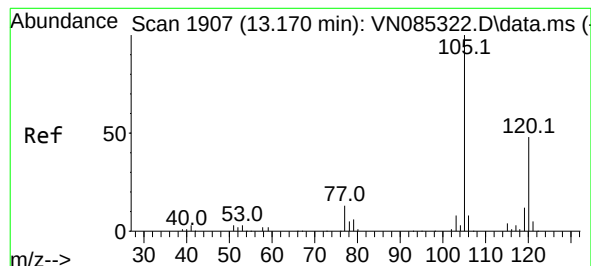
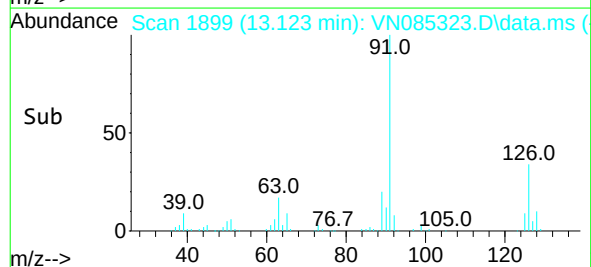
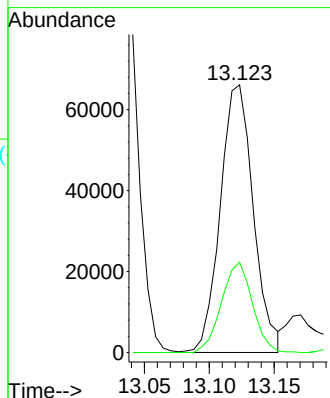
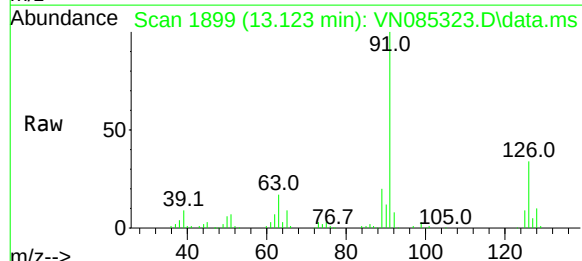
126 31.5 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#80

1,3,5-Trimethylbenzene

Concen: 22.582 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085323.D

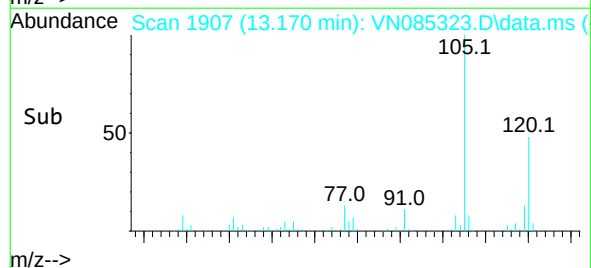
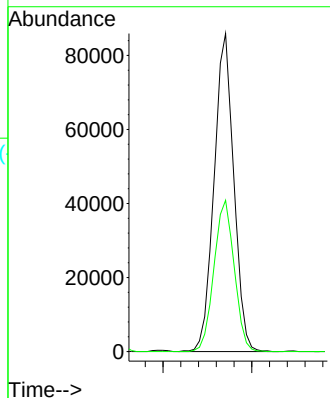
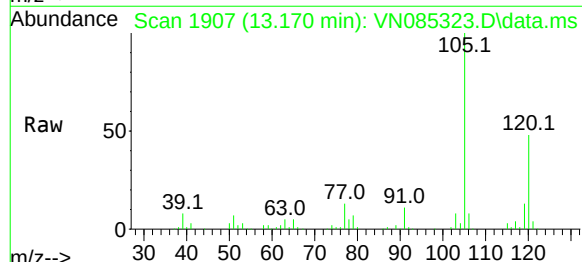
Acq: 27 Dec 2024 11:13

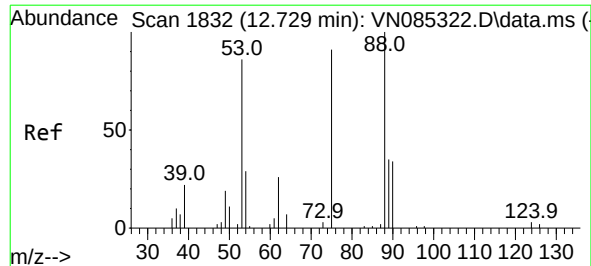
Tgt Ion:105 Resp: 132546

Ion Ratio Lower Upper

105 100

120 48.9 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 21.448 ug/l

RT: 12.735 min Scan# 1832

Delta R.T. 0.006 min

Lab File: VN085323.D

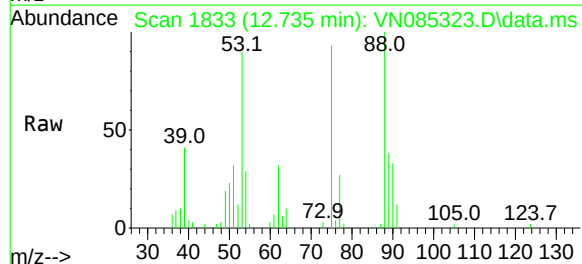
Acq: 27 Dec 2024 11:13

Instrument :

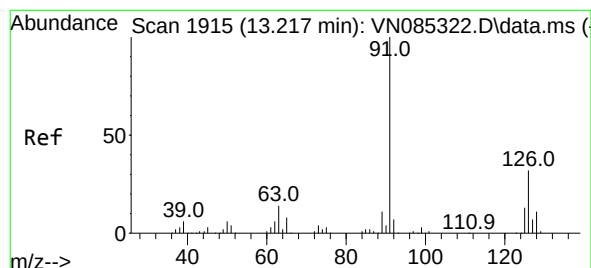
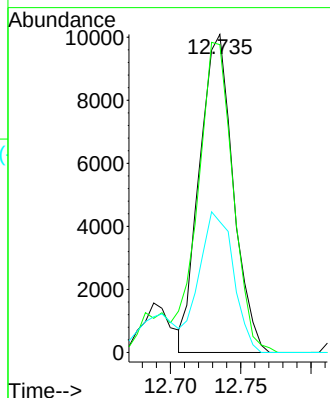
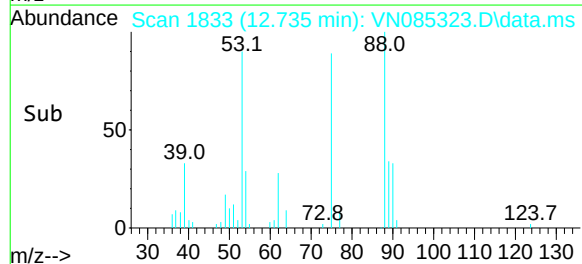
MSVOA_N

ClientSampleId :

VSTDICC020



Tgt Ion:	75	Resp:	16798
Ion	Ratio	Lower	Upper
75	100		
53	101.3	80.0	120.0
89	45.4	35.8	53.8

Manual Integrations
APPROVEDReviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

#82

4-Chlorotoluene

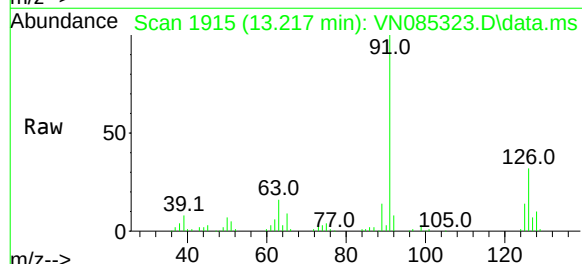
Concen: 21.976 ug/l

RT: 13.217 min Scan# 1915

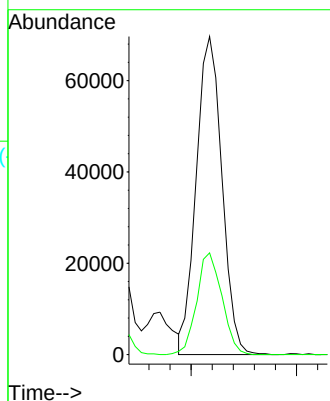
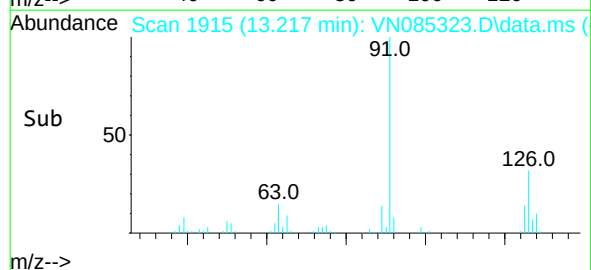
Delta R.T. 0.000 min

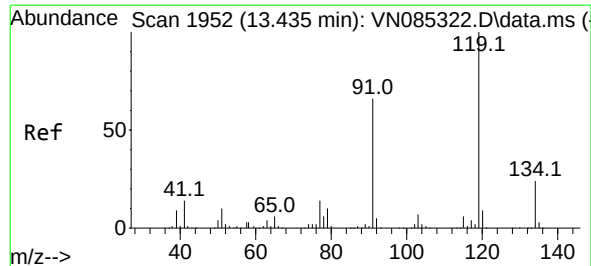
Lab File: VN085323.D

Acq: 27 Dec 2024 11:13



Tgt Ion:	91	Resp:	117825
Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.4	49.4





#83

tert-Butylbenzene

Concen: 22.025 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:119 Resp: 111983

Ion Ratio Lower Upper

119 100

91 67.8 33.6 100.8

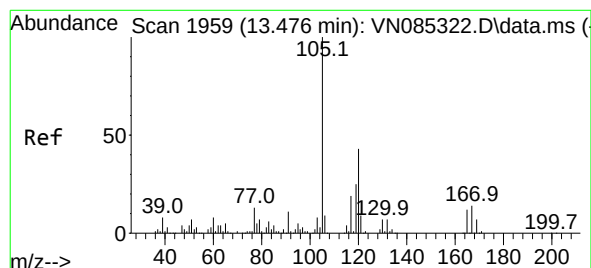
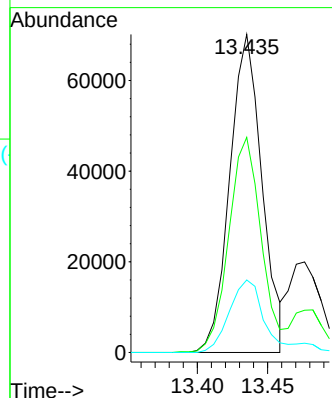
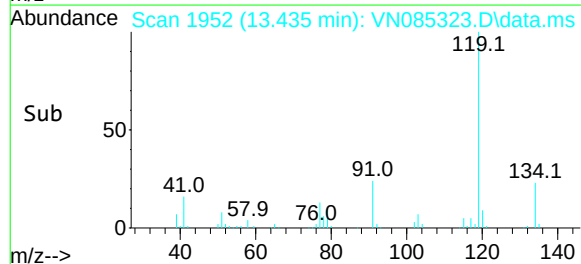
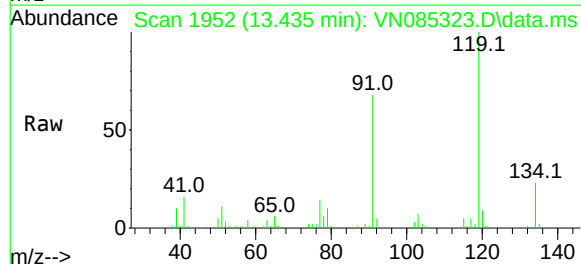
134 26.1 13.3 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#84

1,2,4-Trimethylbenzene

Concen: 23.107 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN085323.D

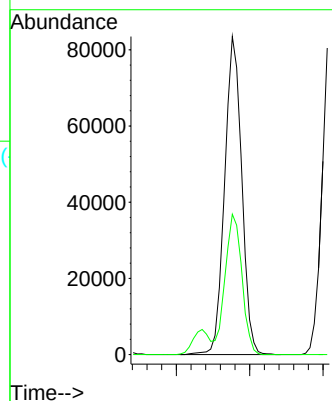
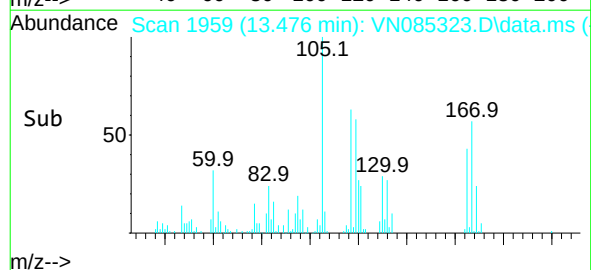
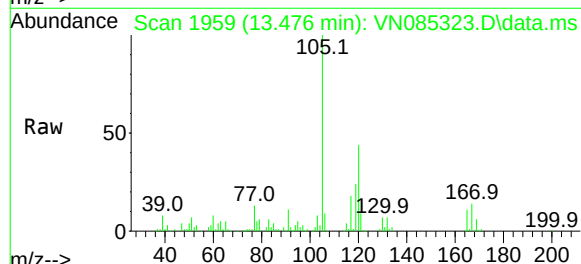
Acq: 27 Dec 2024 11:13

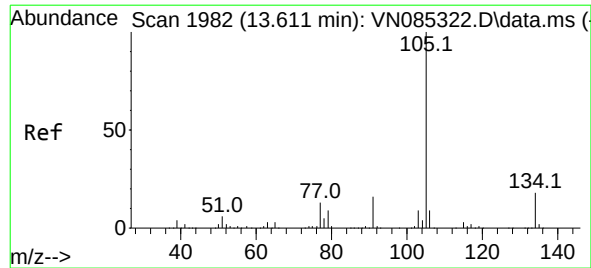
Tgt Ion:105 Resp: 135046

Ion Ratio Lower Upper

105 100

120 44.0 21.7 65.1





#85

sec-Butylbenzene

Concen: 22.026 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:105 Resp: 155451

Ion Ratio Lower Upper

105 100

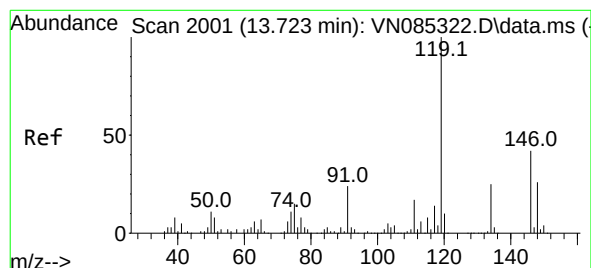
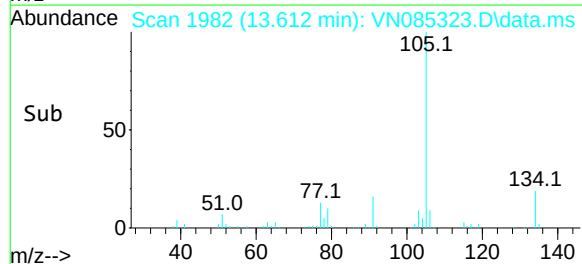
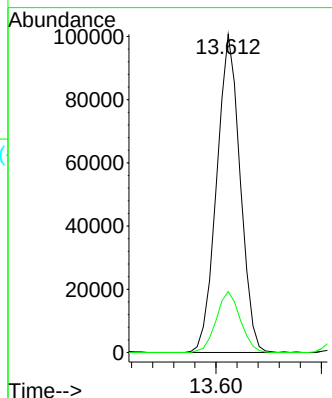
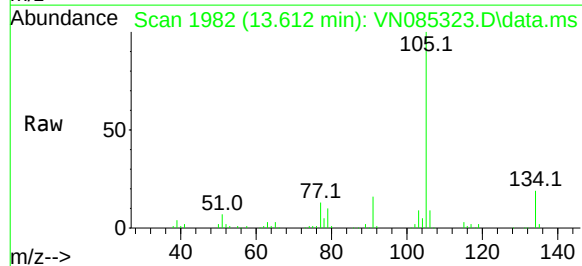
134 19.6 9.4 28.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#86

p-Isopropyltoluene

Concen: 21.487 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

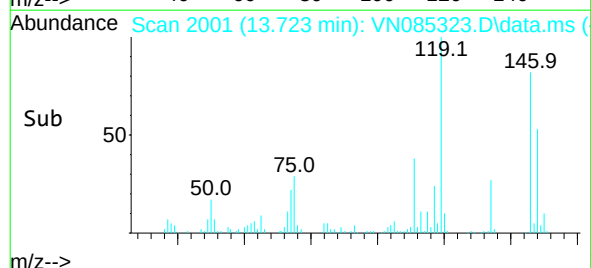
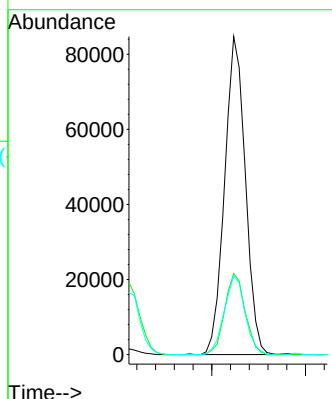
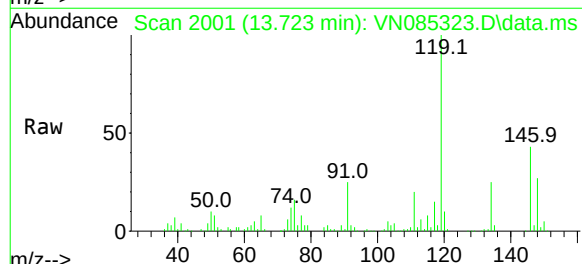
Tgt Ion:119 Resp: 130425

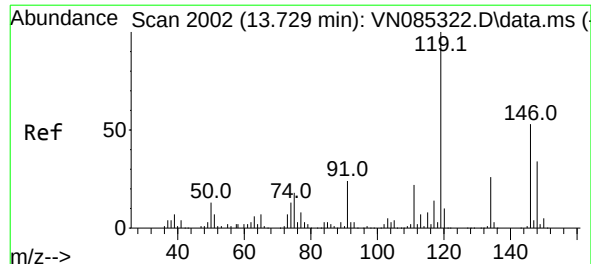
Ion Ratio Lower Upper

119 100

134 25.0 12.5 37.5

91 24.8 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 21.444 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

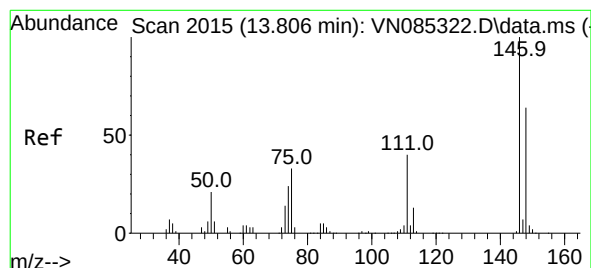
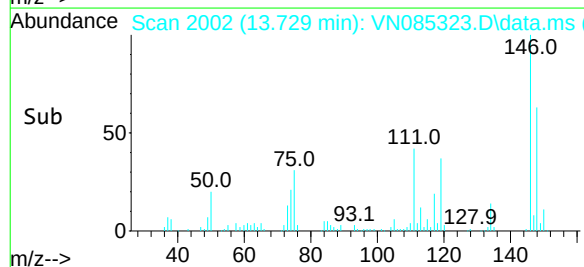
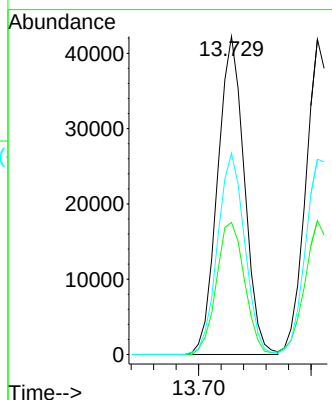
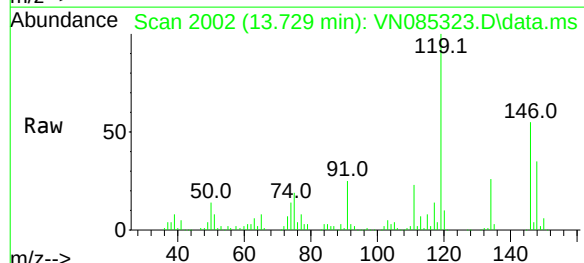
ClientSampleId :

VSTDIC020

Tgt Ion:	146	Resp:	69890
Ion Ratio	Lower	Upper	
146	100		
111	43.7	21.3	63.9
148	64.1	31.5	94.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#88

1,4-Dichlorobenzene

Concen: 21.136 ug/l

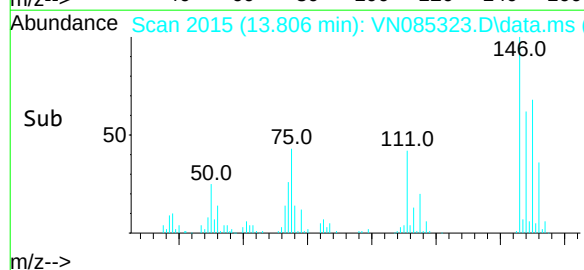
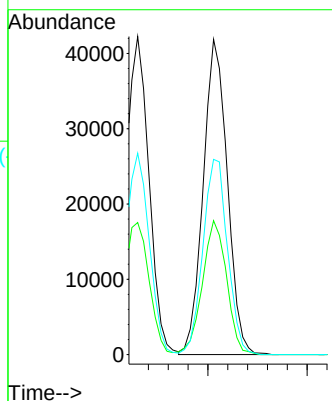
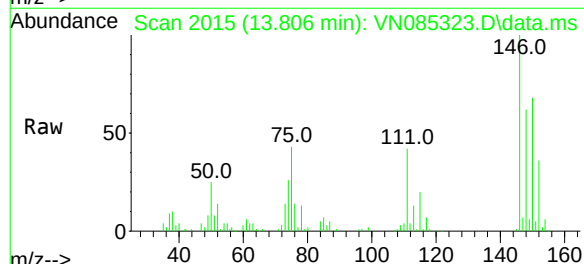
RT: 13.806 min Scan# 2015

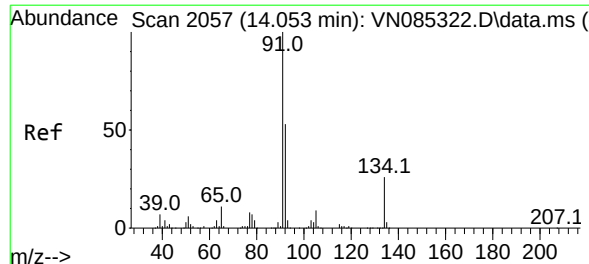
Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion:	146	Resp:	70759
Ion Ratio	Lower	Upper	
146	100		
111	42.8	20.8	62.5
148	63.3	31.7	95.1





#89

n-Butylbenzene

Concen: 22.006 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

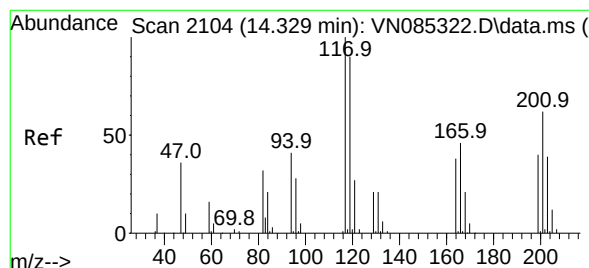
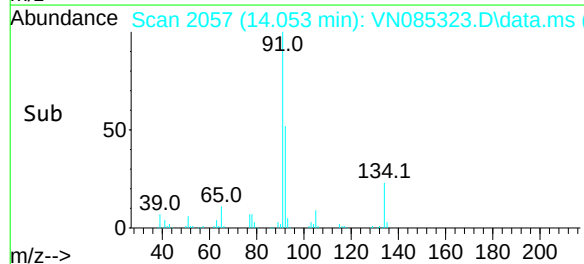
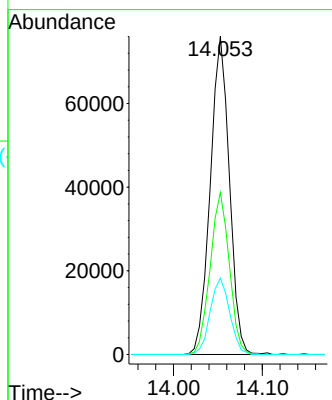
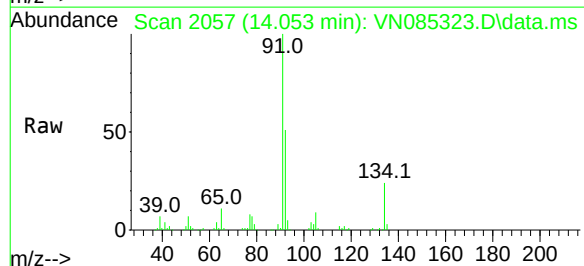
VSTDICC020

Tgt Ion:	91	Resp:	113729
Ion	Ratio	Lower	Upper
91	100		
92	51.1	26.0	78.0
134	24.4	12.1	36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#90

Hexachloroethane

Concen: 21.128 ug/l

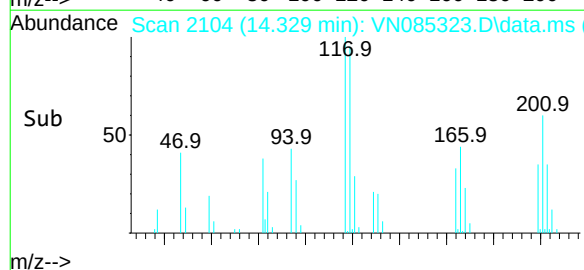
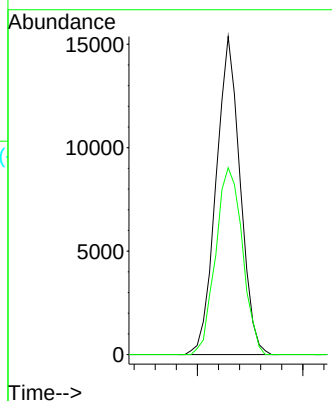
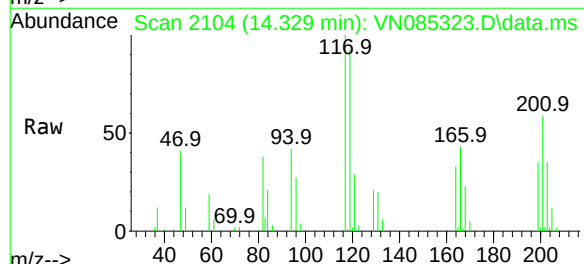
RT: 14.329 min Scan# 2104

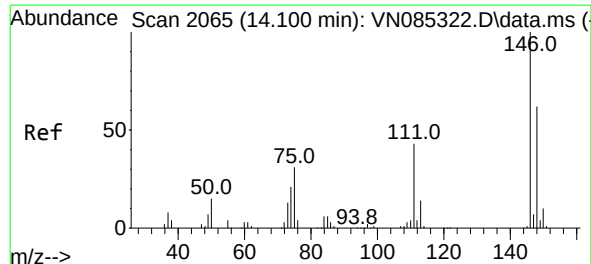
Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion:	117	Resp:	24441
Ion	Ratio	Lower	Upper
117	100		
201	65.2	30.7	92.1





#91

1,2-Dichlorobenzene

Concen: 21.735 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

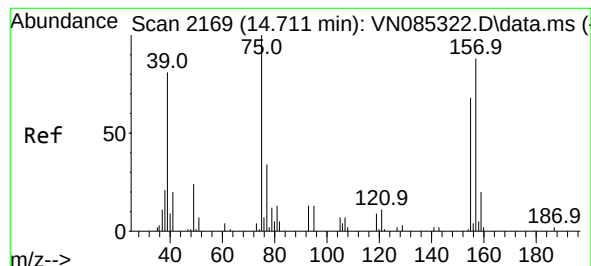
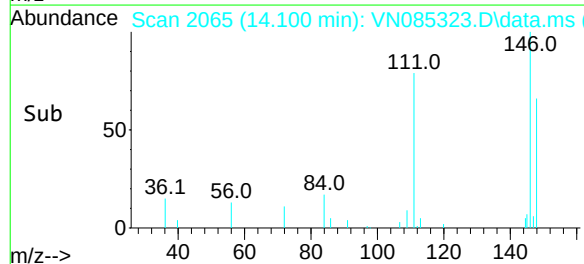
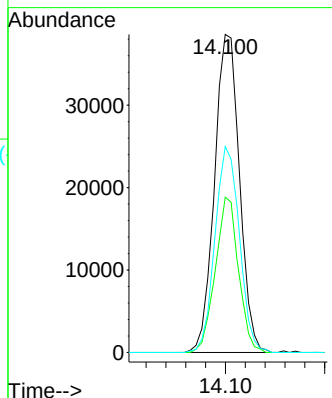
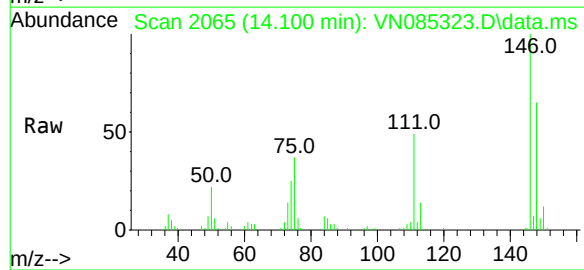
ClientSampleId :

VSTDIC020

Tgt Ion:	146	Resp:	67480
Ion	Ratio	Lower	Upper
146	100		
111	45.2	21.8	65.3
148	63.5	31.4	94.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 21.954 ug/l

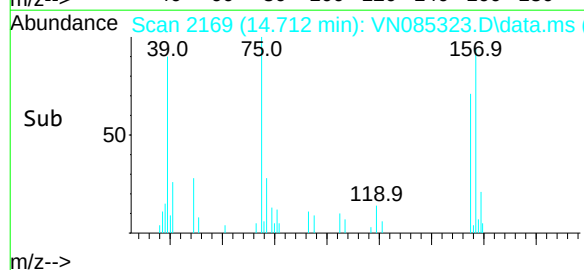
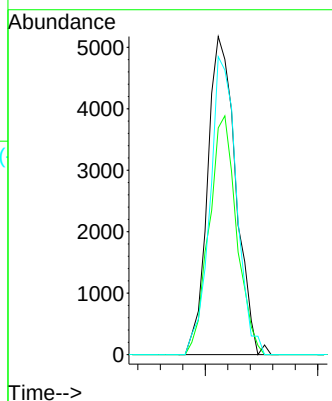
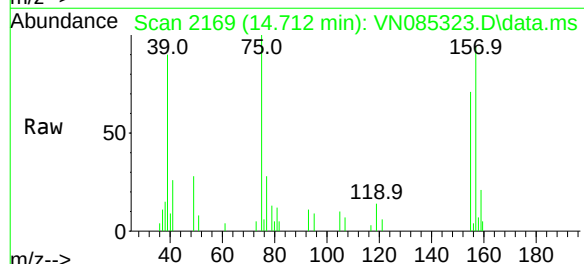
RT: 14.712 min Scan# 2169

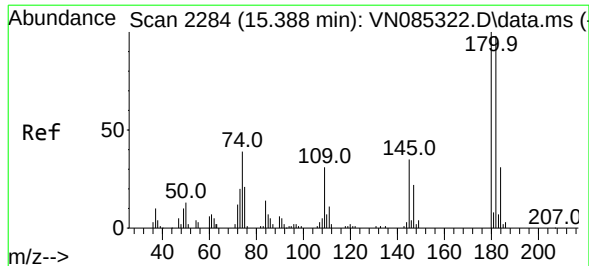
Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Tgt Ion:	75	Resp:	9030
Ion	Ratio	Lower	Upper
75	100		
155	73.1	35.6	106.9
157	88.0	47.0	141.0





#93

1,2,4-Trichlorobenzene

Concen: 21.491 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085323.D

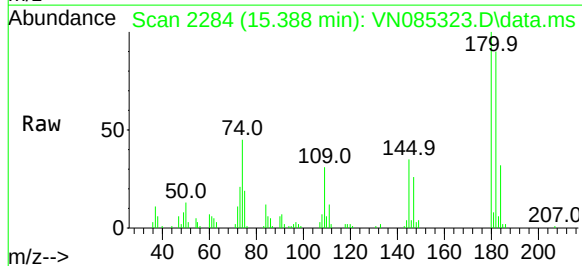
Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

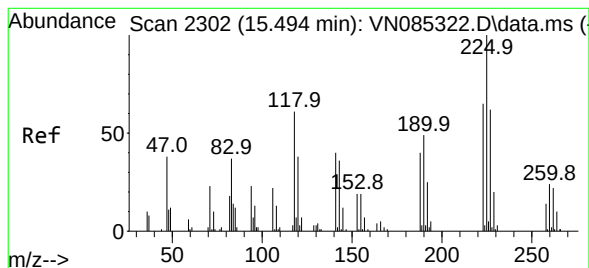
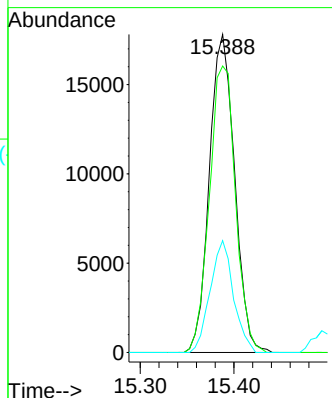
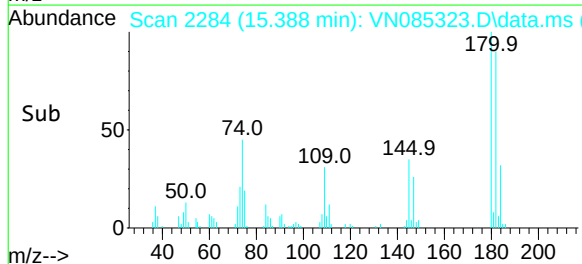
VSTDIC020



Tgt Ion:	180	Resp:	33300
Ion Ratio	Lower	Upper	
180	100		
182	93.6	47.2	141.6
145	32.5	16.6	49.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#94

Hexachlorobutadiene

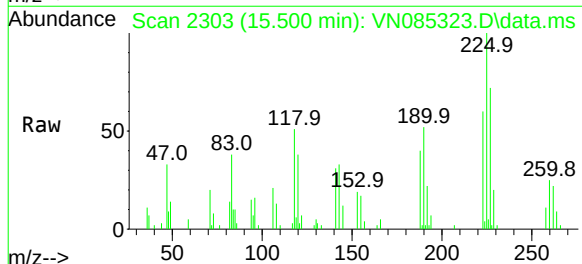
Concen: 20.980 ug/l

RT: 15.500 min Scan# 2303

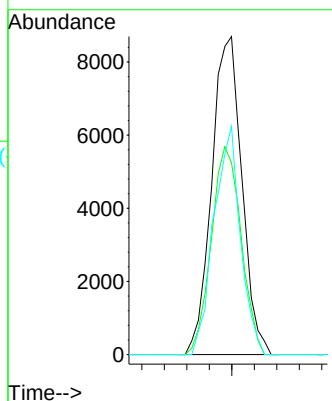
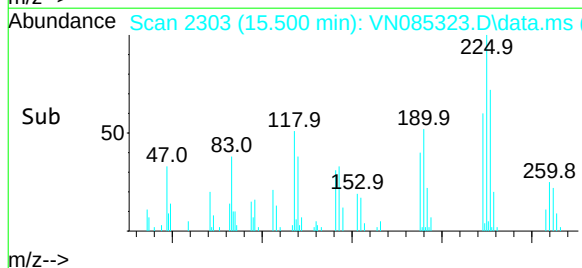
Delta R.T. 0.006 min

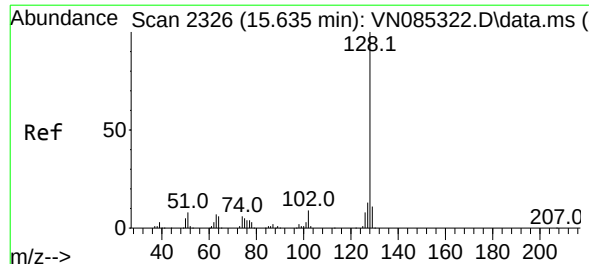
Lab File: VN085323.D

Acq: 27 Dec 2024 11:13



Tgt Ion:	225	Resp:	16152
Ion Ratio	Lower	Upper	
225	100		
223	64.6	31.6	94.7
227	63.2	30.3	91.0





#95

Naphthalene

Concen: 21.170 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion:128 Resp: 111233

Ion Ratio Lower Upper

128 100

127 12.6 10.6 16.0

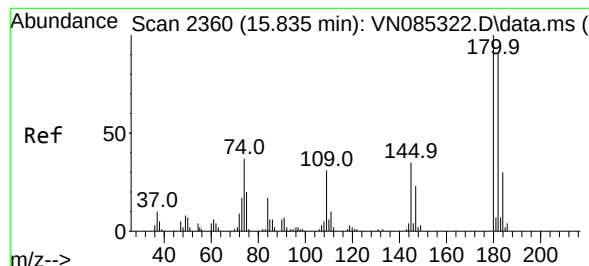
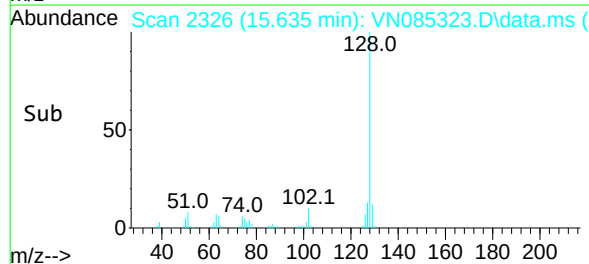
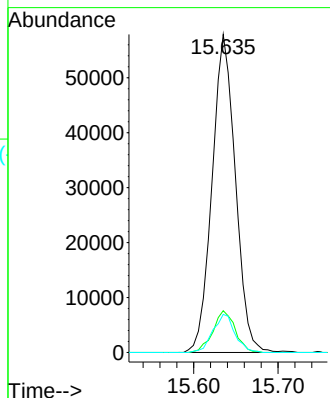
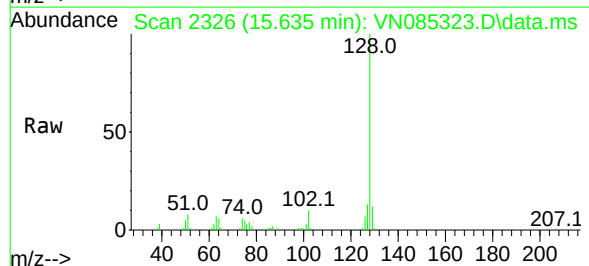
129 11.3 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#96

1,2,3-Trichlorobenzene

Concen: 21.140 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085323.D

Acq: 27 Dec 2024 11:13

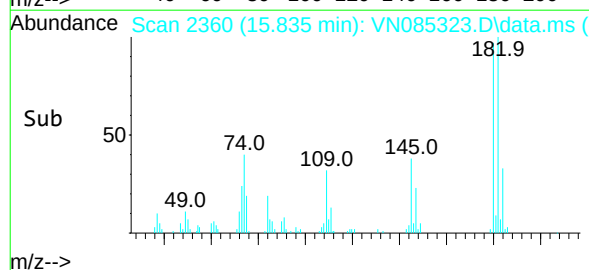
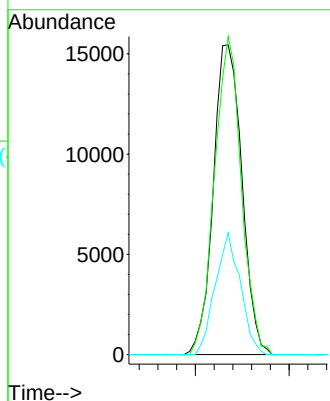
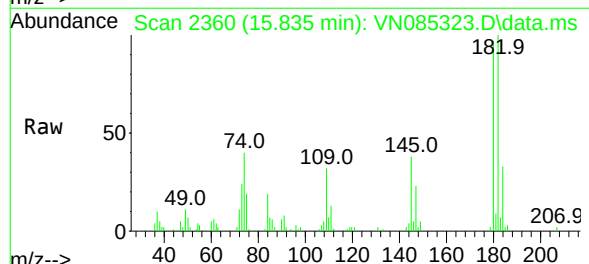
Tgt Ion:180 Resp: 32729

Ion Ratio Lower Upper

180 100

182 96.6 46.8 140.4

145 34.6 17.2 51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085324.D
 Acq On : 27 Dec 2024 11:37
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:12:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	139803	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	249332	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	215410	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	91601	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	19346	9.702	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	19.400%#
35) Dibromofluoromethane	8.159	113	15144	9.736	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	19.480%#
50) Toluene-d8	10.565	98	53607	9.392	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	18.780%#
62) 4-Bromofluorobenzene	12.841	95	17328	9.141	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	18.280%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	19552	10.341	ug/l	97
3) Chloromethane	2.359	50	20670	9.727	ug/l #	88
4) Vinyl Chloride	2.518	62	21838	9.717	ug/l	95
5) Bromomethane	2.965	94	15112	10.281	ug/l	84
6) Chloroethane	3.130	64	14417	10.115	ug/l	97
7) Trichlorofluoromethane	3.495	101	30029	10.165	ug/l	90
8) Diethyl Ether	3.965	74	10096	10.321	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	17168	10.214	ug/l	99
10) Methyl Iodide	4.589	142	18635	9.579	ug/l #	90
11) Tert butyl alcohol	5.506	59	12805	51.284	ug/l	96
12) 1,1-Dichloroethene	4.342	96	15070	9.700	ug/l	90
13) Acrolein	4.183	56	19853	50.999	ug/l	98
14) Allyl chloride	5.030	41	25157	10.118	ug/l	95
15) Acrylonitrile	5.718	53	39955	50.842	ug/l	97
16) Acetone	4.424	43	32542	49.631	ug/l	92
17) Carbon Disulfide	4.712	76	44938	9.508	ug/l	98
18) Methyl Acetate	5.018	43	20355	10.140	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	50046	9.911	ug/l	94
20) Methylene Chloride	5.277	84	17446	9.892	ug/l	93
21) trans-1,2-Dichloroethene	5.783	96	15908	9.802	ug/l	96
22) Diisopropyl ether	6.665	45	53406	9.967	ug/l	99
23) Vinyl Acetate	6.600	43	189768m	49.267	ug/l	
24) 1,1-Dichloroethane	6.565	63	31897	9.883	ug/l	99
25) 2-Butanone	7.482	43	50628	49.771	ug/l	100
26) 2,2-Dichloropropane	7.488	77	27809	9.834	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	18276	9.595	ug/l	91
28) Bromochloromethane	7.812	49	14957	9.972	ug/l #	99
29) Tetrahydrofuran	7.835	42	33255	50.752	ug/l	98
30) Chloroform	7.959	83	32453	9.828	ug/l	99
31) Cyclohexane	8.253	56	29511	10.013	ug/l	93
32) 1,1,1-Trichloroethane	8.171	97	29271	9.926	ug/l	93
36) 1,1-Dichloropropene	8.365	75	22034	9.675	ug/l	99
37) Ethyl Acetate	7.559	43	23298	10.292	ug/l	97
38) Carbon Tetrachloride	8.359	117	24491	9.866	ug/l	99
39) Methylcyclohexane	9.600	83	22448	9.500	ug/l	98
40) Benzene	8.600	78	67603	9.818	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085324.D
 Acq On : 27 Dec 2024 11:37
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:12:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	12091	10.429	ug/l	95
42) 1,2-Dichloroethane	8.671	62	24635	9.979	ug/l	100
43) Isopropyl Acetate	8.682	43	35967	9.650	ug/l	98
44) Trichloroethene	9.347	130	15441	9.472	ug/l	99
45) 1,2-Dichloropropane	9.618	63	17511	10.018	ug/l	99
46) Dibromomethane	9.706	93	12378	10.182	ug/l	98
47) Bromodichloromethane	9.882	83	25444	10.070	ug/l	94
48) Methyl methacrylate	9.676	41	15633	9.666	ug/l	97
49) 1,4-Dioxane	9.688	88	5366	219.898	ug/l	92
51) 4-Methyl-2-Pentanone	10.441	43	106569	50.877	ug/l	100
52) Toluene	10.629	92	40396	9.853	ug/l	97
53) t-1,3-Dichloropropene	10.829	75	24100	9.699	ug/l	97
54) cis-1,3-Dichloropropene	10.306	75	26207	9.754	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	14839	9.586	ug/l	90
56) Ethyl methacrylate	10.871	69	22666	10.054	ug/l	99
57) 1,3-Dichloropropane	11.159	76	26800	9.864	ug/l	97
58) 2-Chloroethyl Vinyl ether	10.159	63	57793	52.985	ug/l	100
59) 2-Hexanone	11.188	43	73420	50.521	ug/l	100
60) Dibromochloromethane	11.353	129	17232	9.884	ug/l	99
61) 1,2-Dibromoethane	11.465	107	15412	10.064	ug/l	98
64) Tetrachloroethene	11.094	164	14273	10.457	ug/l	97
65) Chlorobenzene	11.888	112	44413	9.541	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.953	131	15107	9.670	ug/l	98
67) Ethyl Benzene	11.959	91	73883	9.544	ug/l	97
68) m/p-Xylenes	12.065	106	54643	19.288	ug/l	98
69) o-Xylene	12.400	106	26323	9.605	ug/l	95
70) Styrene	12.406	104	41517	9.347	ug/l	97
71) Bromoform	12.570	173	10628	9.822	ug/l #	96
73) Isopropylbenzene	12.694	105	65872	10.000	ug/l	98
74) N-amyl acetate	12.488	43	27209	9.650	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	21045	10.031	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	17525m	9.959	ug/l	
77) Bromobenzene	12.976	156	16311	9.995	ug/l	97
78) n-propylbenzene	13.029	91	78022	10.161	ug/l	98
79) 2-Chlorotoluene	13.123	91	49236	10.189	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	54193	10.171	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.729	75	6879m	9.676	ug/l	
82) 4-Chlorotoluene	13.217	91	48752	10.017	ug/l	100
83) tert-Butylbenzene	13.435	119	45946	9.955	ug/l	96
84) 1,2,4-Trimethylbenzene	13.476	105	53034	9.996	ug/l	97
85) sec-Butylbenzene	13.612	105	64824	10.118	ug/l	100
86) p-Isopropyltoluene	13.723	119	52240	9.726	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	28481	9.627	ug/l	97
88) 1,4-Dichlorobenzene	13.806	146	29343	9.656	ug/l	95
89) n-Butylbenzene	14.053	91	44284	9.440	ug/l	99
90) Hexachloroethane	14.329	117	10091	9.609	ug/l	94
91) 1,2-Dichlorobenzene	14.106	146	29163	10.348	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.711	75	3666	9.818	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	13416	9.538	ug/l	97
94) Hexachlorobutadiene	15.500	225	6870	9.830	ug/l	98
95) Naphthalene	15.641	128	44712	9.374	ug/l	98
96) 1,2,3-Trichlorobenzene	15.841	180	14070	10.012	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085324.D
Acq On : 27 Dec 2024 11:37
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:12:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration

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

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

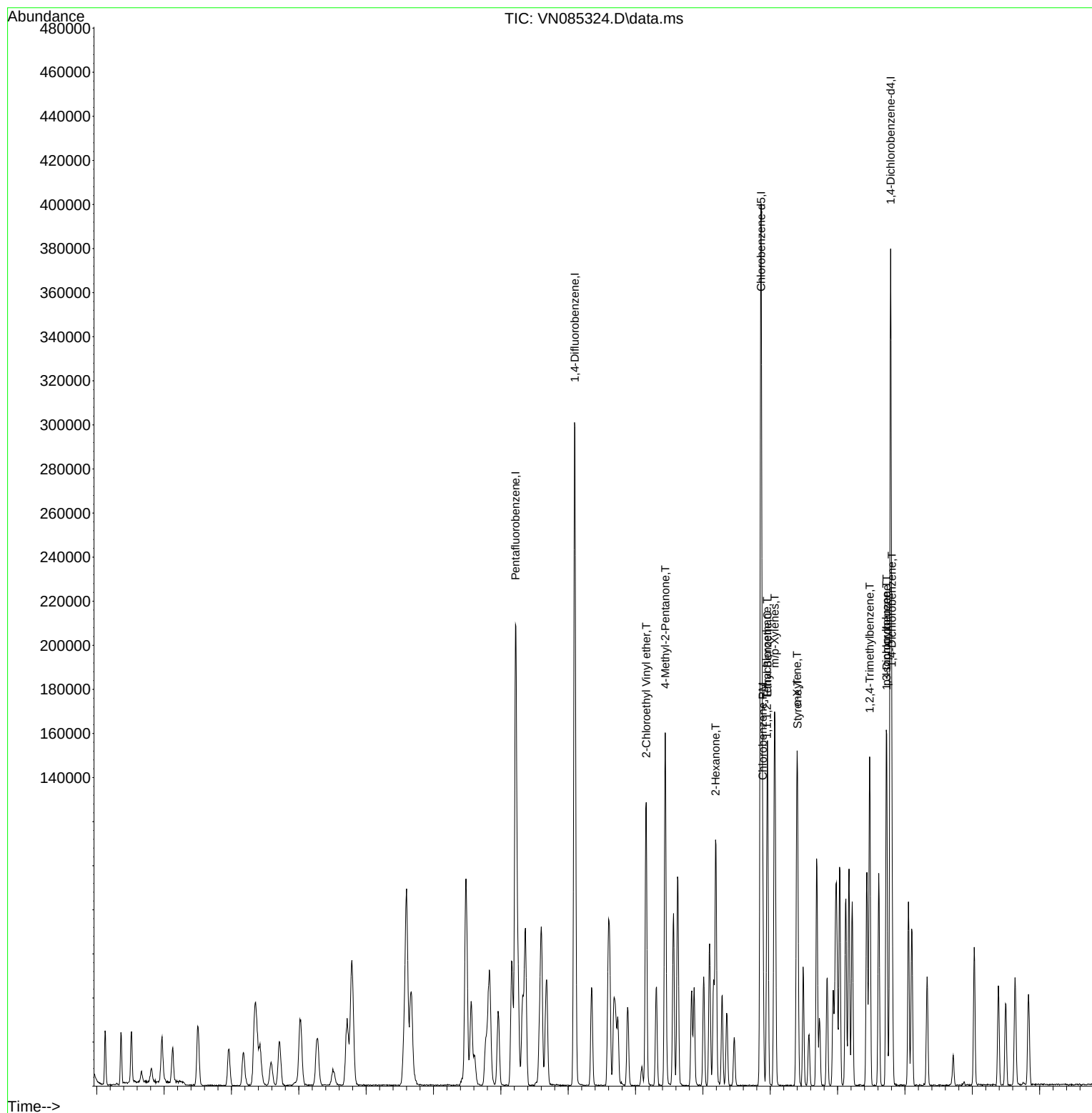
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Operator : JC\MD
Sample : VSTDIC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

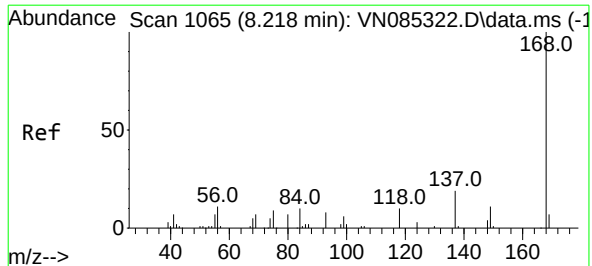
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:12:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.218 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:168 Resp: 139803

Ion Ratio Lower Upper

168 100

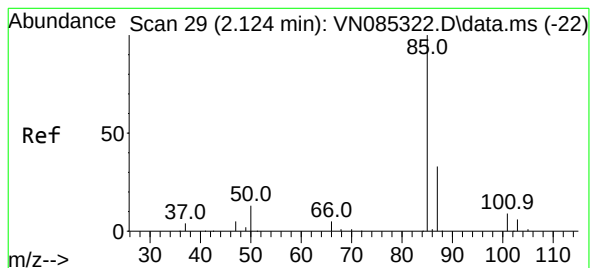
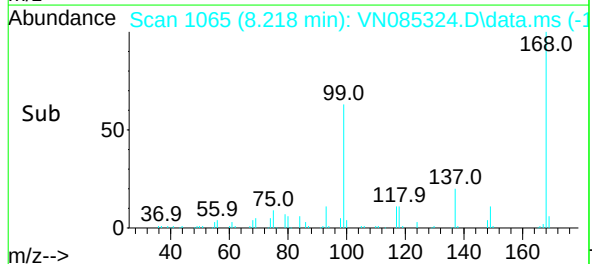
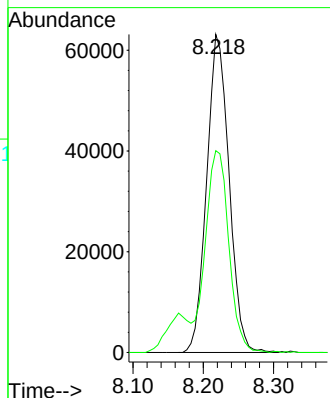
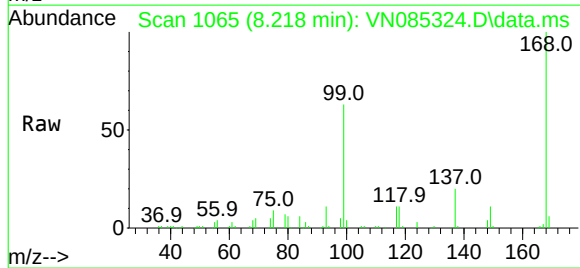
99 63.1 51.0 76.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#2

Dichlorodifluoromethane

Concen: 10.341 ug/l

RT: 2.124 min Scan# 29

Delta R.T. 0.000 min

Lab File: VN085324.D

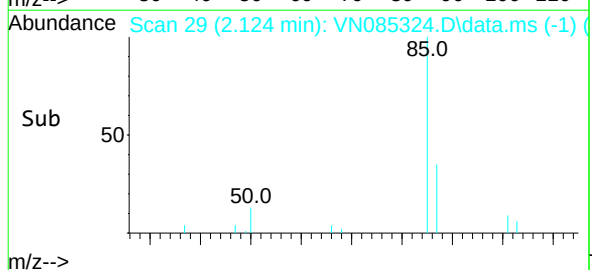
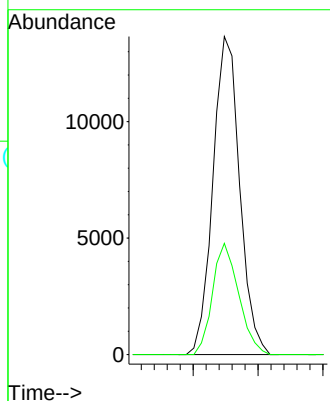
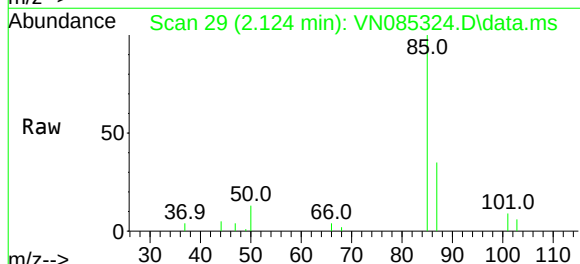
Acq: 27 Dec 2024 11:37

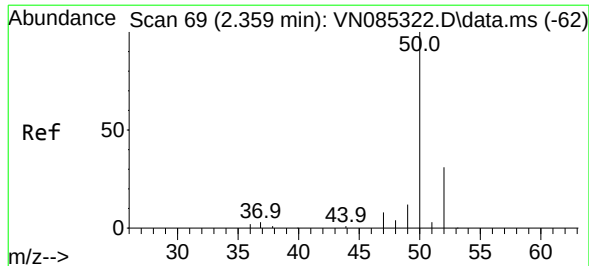
Tgt Ion: 85 Resp: 19552

Ion Ratio Lower Upper

85 100

87 35.0 16.8 50.3





#3

Chloromethane

Concen: 9.727 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 50 Resp: 20670

Ion Ratio Lower Upper

50 100

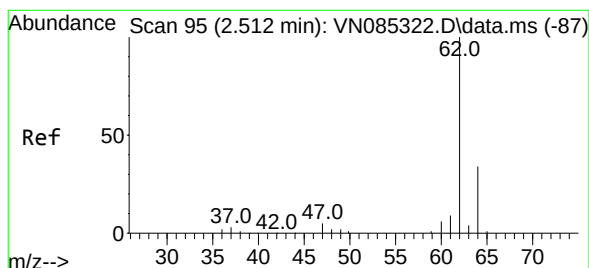
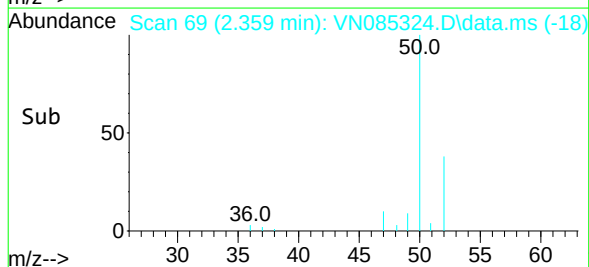
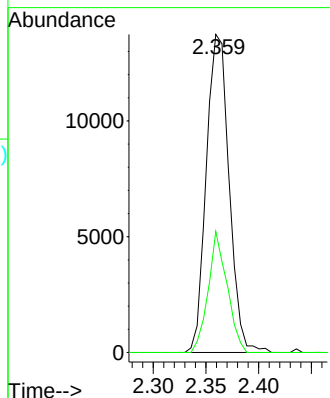
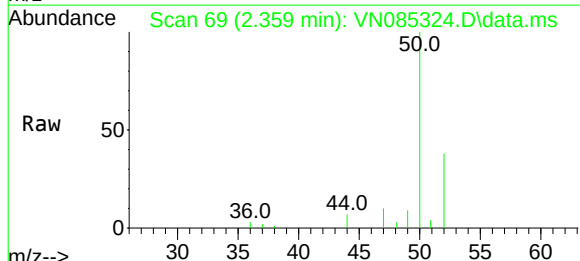
52 38.1 25.1 37.7#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#4

Vinyl Chloride

Concen: 9.717 ug/l

RT: 2.518 min Scan# 96

Delta R.T. 0.006 min

Lab File: VN085324.D

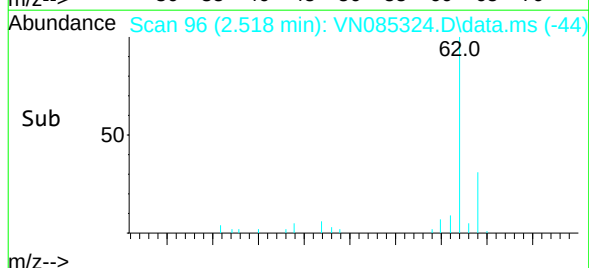
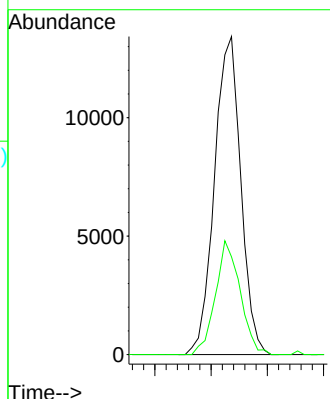
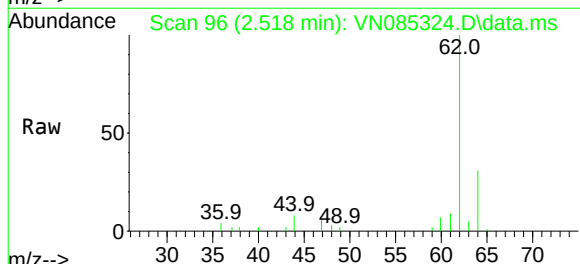
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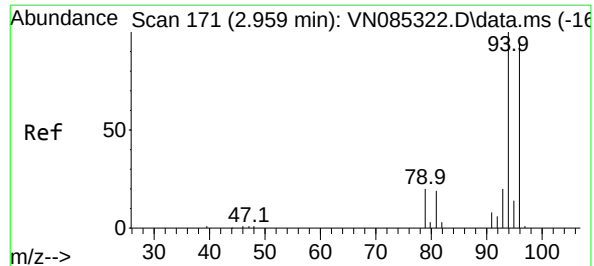
Tgt Ion: 62 Resp: 21838

Ion Ratio Lower Upper

62 100

64 30.7 27.0 40.6





#5

Bromomethane

Concen: 10.281 ug/l

RT: 2.965 min Scan# 171

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 94 Resp: 15112

Ion Ratio Lower Upper

94 100

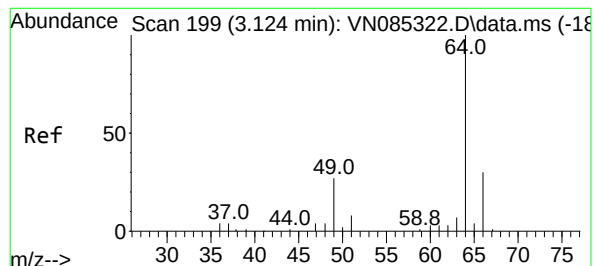
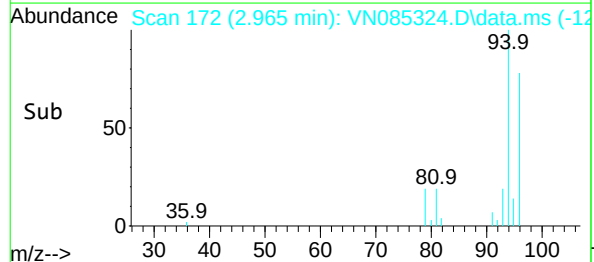
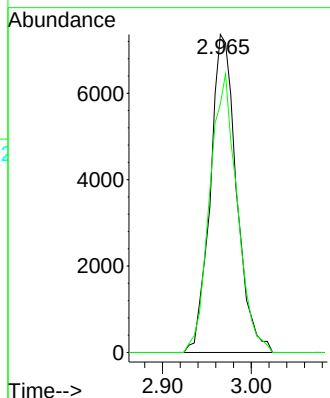
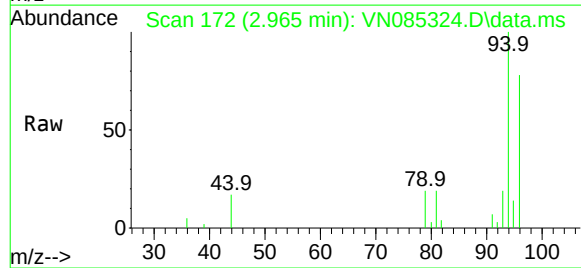
96 78.1 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#6

Chloroethane

Concen: 10.115 ug/l

RT: 3.130 min Scan# 200

Delta R.T. 0.006 min

Lab File: VN085324.D

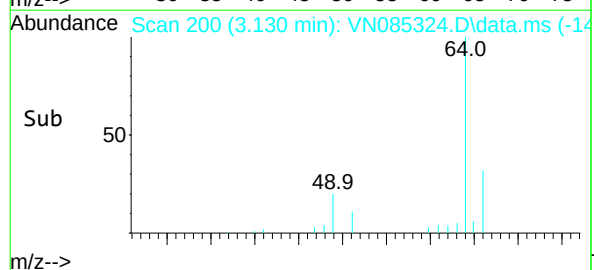
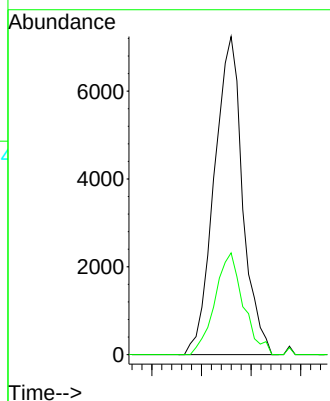
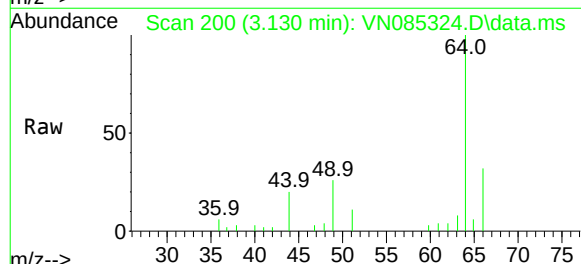
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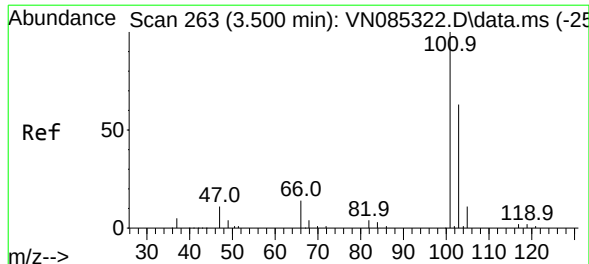
Tgt Ion: 64 Resp: 14417

Ion Ratio Lower Upper

64 100

66 32.0 24.1 36.1





#7

Trichlorofluoromethane

Concen: 10.165 ug/l

RT: 3.495 min Scan# 26

Delta R.T. -0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:101 Resp: 30029

Ion Ratio Lower Upper

101 100

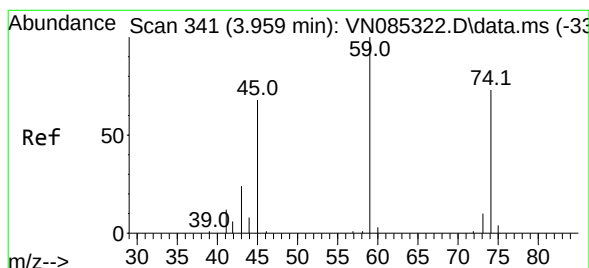
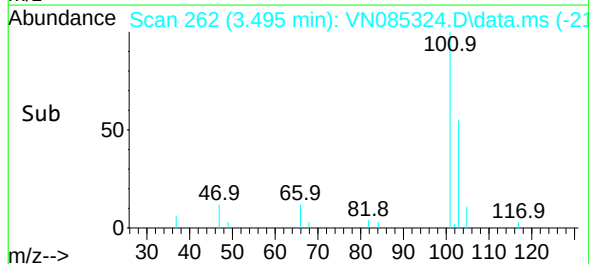
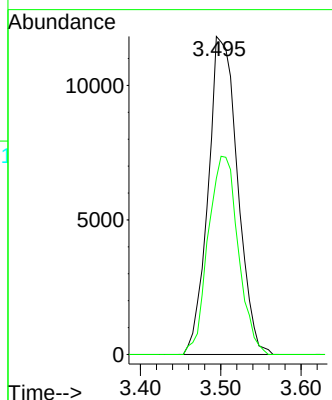
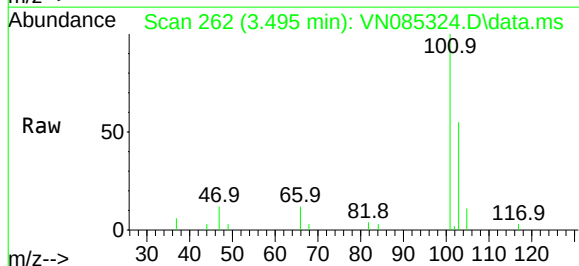
103 55.4 50.3 75.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#8

Diethyl Ether

Concen: 10.321 ug/l

RT: 3.965 min Scan# 342

Delta R.T. 0.006 min

Lab File: VN085324.D

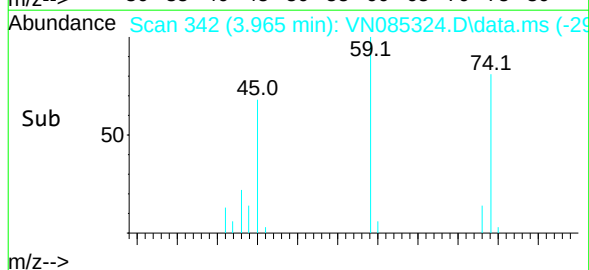
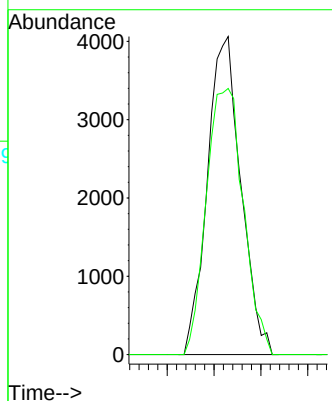
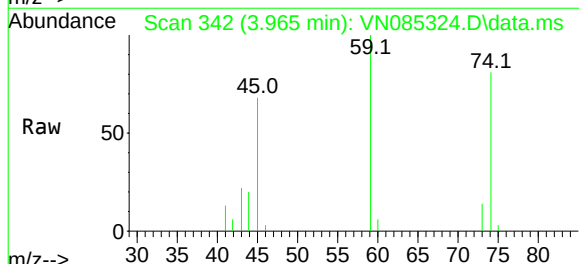
Acq: 27 Dec 2024 11:37

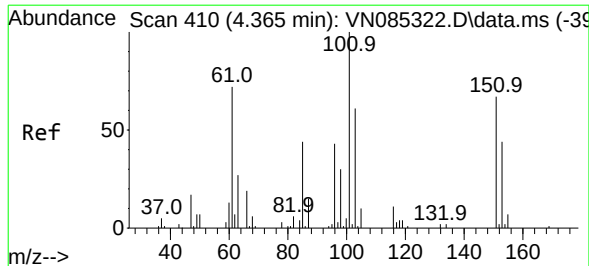
Tgt Ion: 74 Resp: 10096

Ion Ratio Lower Upper

74 100

45 92.6 47.5 142.6





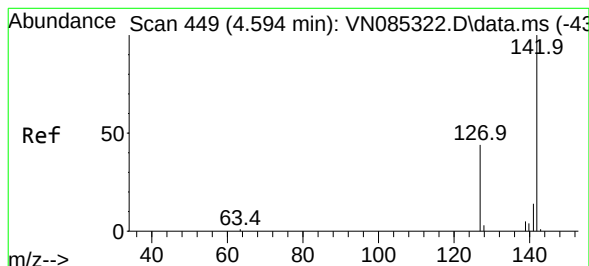
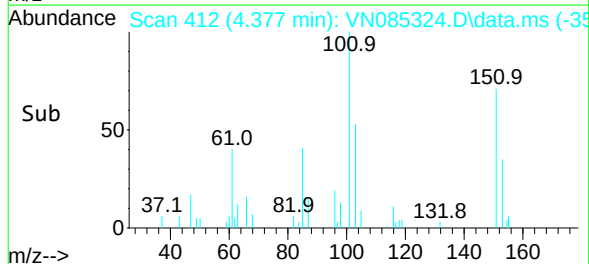
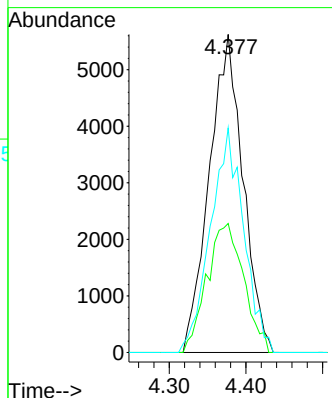
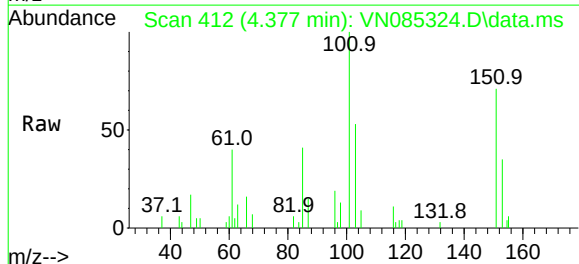
#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.214 ug/l
RT: 4.377 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN085324.D
Acq: 27 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Tgt Ion	101	Resp	17168
Ion Ratio	Lower	Upper	
101	100		
85	44.2	36.2	54.4
151	69.6	55.8	83.6

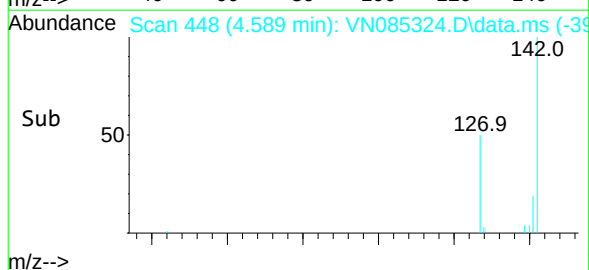
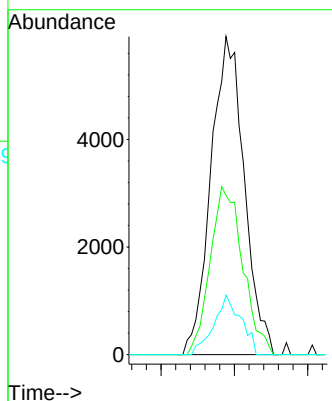
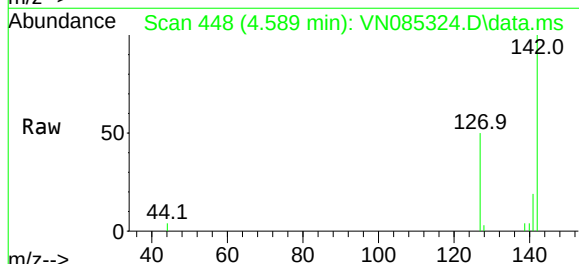
Manual Integrations
APPROVED

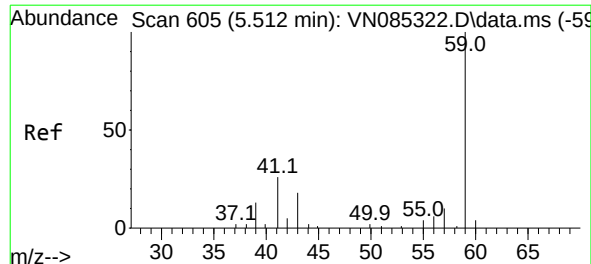
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#10
Methyl Iodide
Concen: 9.579 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN085324.D
Acq: 27 Dec 2024 11:37

Tgt Ion	142	Resp	18635
Ion Ratio	Lower	Upper	
142	100		
127	50.1	35.3	52.9
141	18.7	11.5	17.3#





#11

Tert butyl alcohol

Concen: 51.284 ug/l

RT: 5.506 min Scan# 605

Delta R.T. -0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 59 Resp: 12805

Ion Ratio Lower Upper

59 100

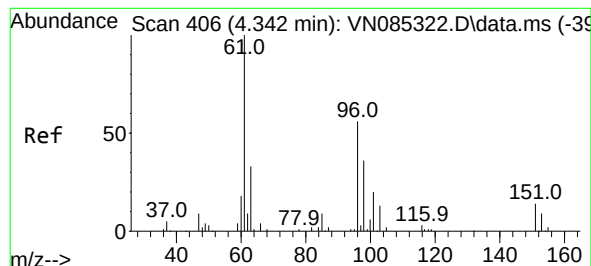
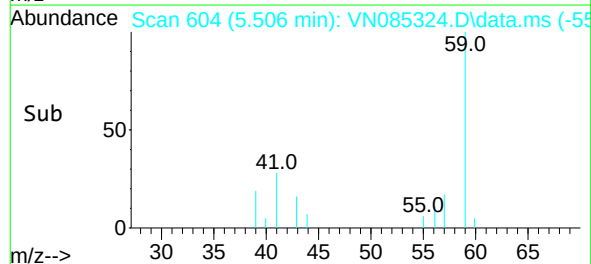
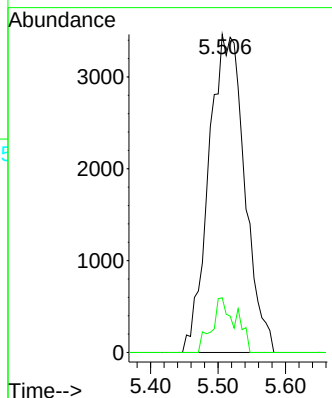
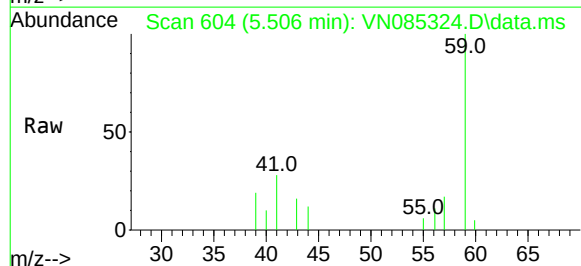
57 8.7 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#12

1,1-Dichloroethene

Concen: 9.700 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

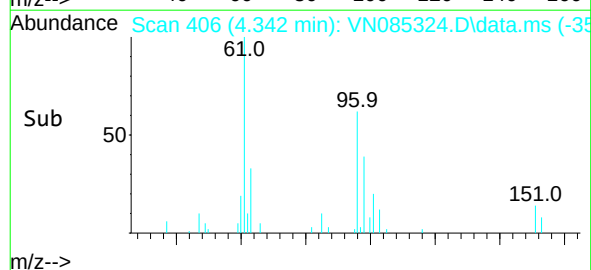
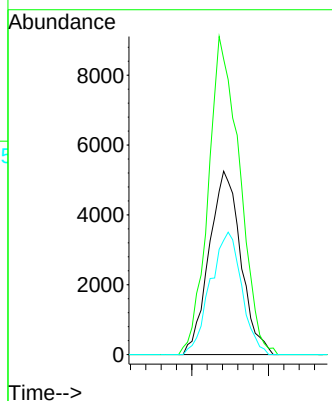
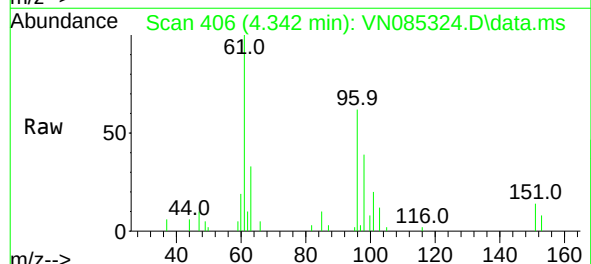
Tgt Ion: 96 Resp: 15070

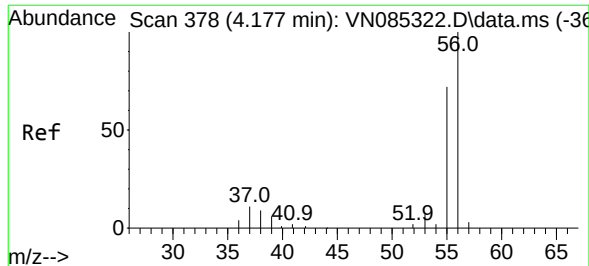
Ion Ratio Lower Upper

96 100

61 161.1 142.4 213.6

98 62.3 51.5 77.3





#13

Acrolein

Concen: 50.999 ug/l

RT: 4.183 min Scan# 37

Delta R.T. 0.006 min

Lab File: VN085324.D

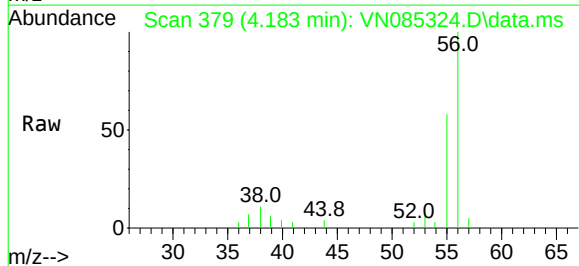
Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010



Tgt Ion: 56 Resp: 19853

Ion Ratio Lower Upper

56 100

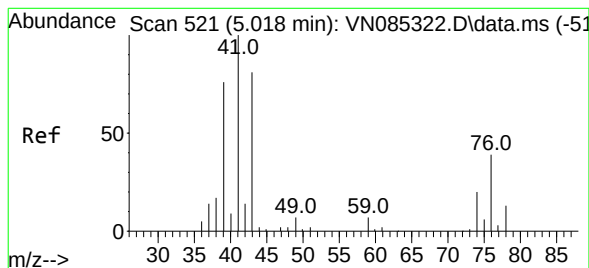
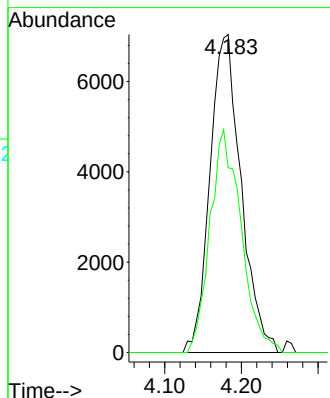
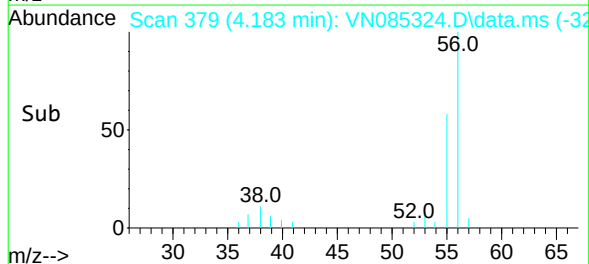
55 70.1 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#14

Allyl chloride

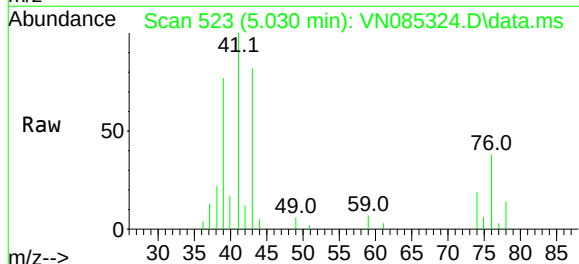
Concen: 10.118 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37



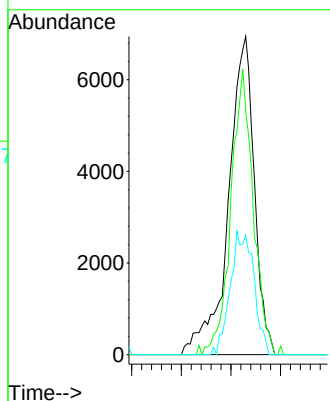
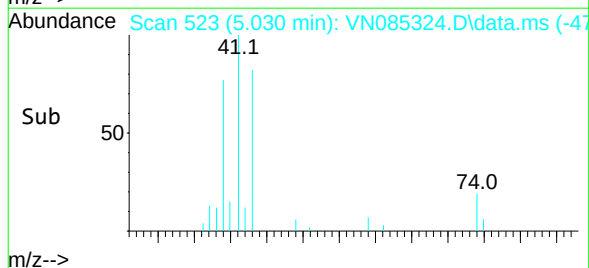
Tgt Ion: 41 Resp: 25157

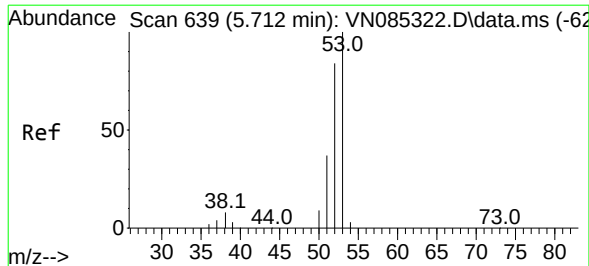
Ion Ratio Lower Upper

41 100

39 76.8 64.4 96.6

76 35.2 31.5 47.3





#15

Acrylonitrile

Concen: 50.842 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

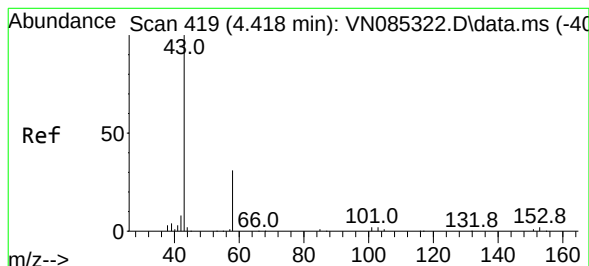
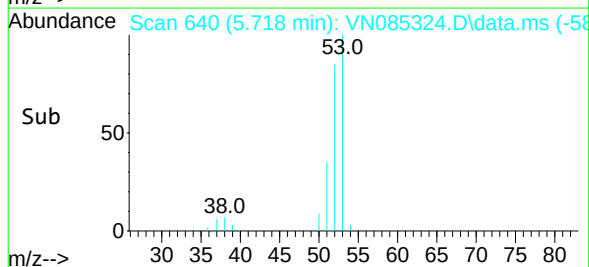
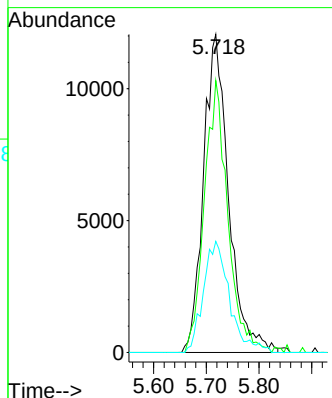
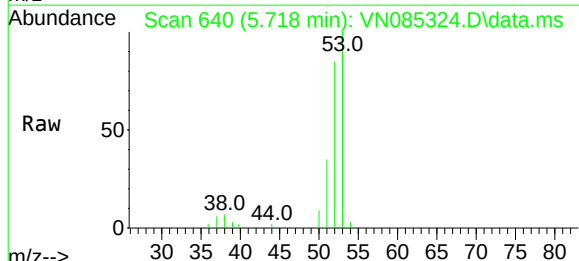
ClientSampleId :

VSTDICC010

Tgt Ion:	53	Resp:	39955
Ion	Ratio	Lower	Upper
53	100		
52	79.7	66.6	100.0
51	36.5	29.6	44.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#16

Acetone

Concen: 49.631 ug/l

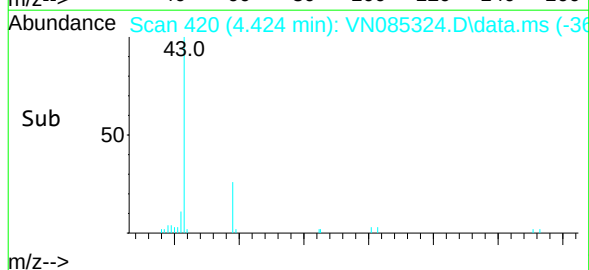
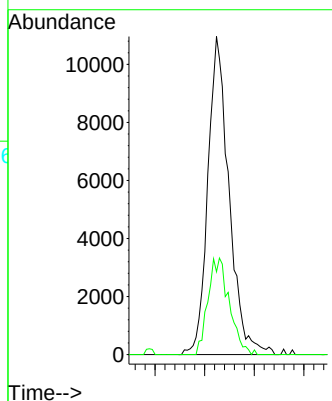
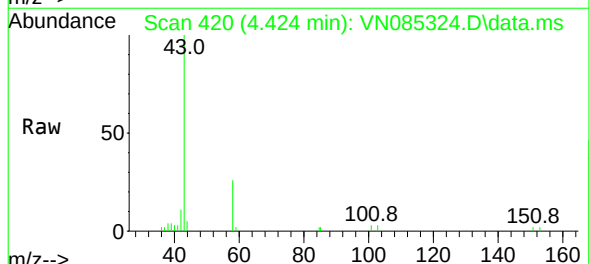
RT: 4.424 min Scan# 420

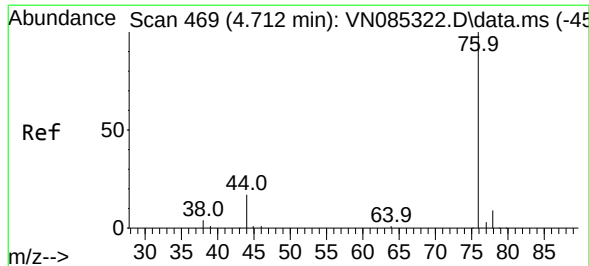
Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion:	43	Resp:	32542
Ion	Ratio	Lower	Upper
43	100		
58	26.0	24.5	36.7





#17

Carbon Disulfide

Concen: 9.508 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085324.D

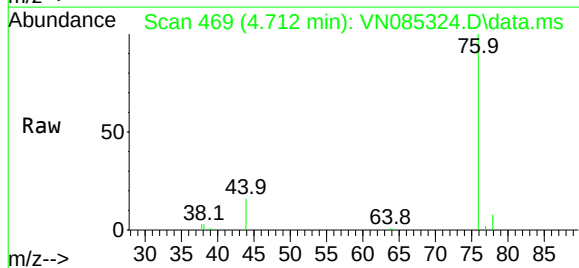
Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010



Tgt Ion: 76 Resp: 44938

Ion Ratio Lower Upper

76 100

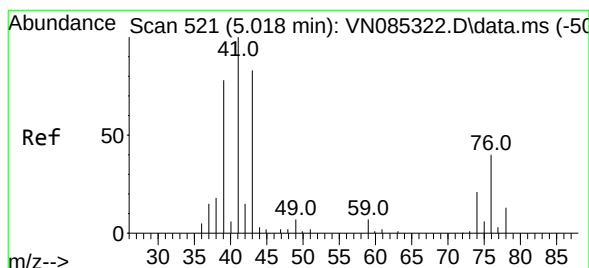
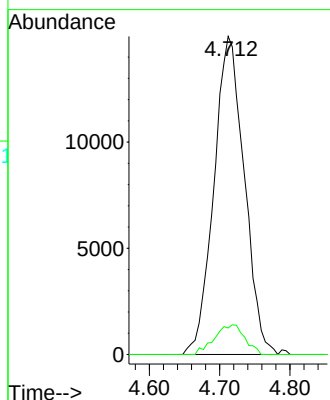
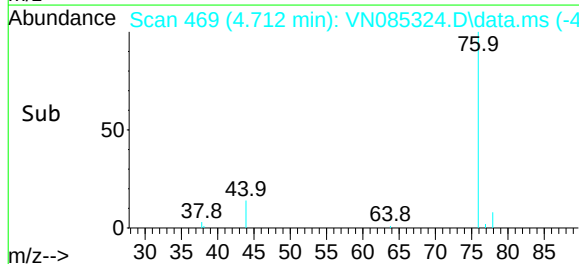
78 8.3 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#18

Methyl Acetate

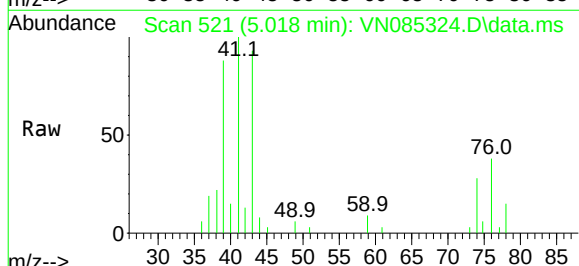
Concen: 10.140 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

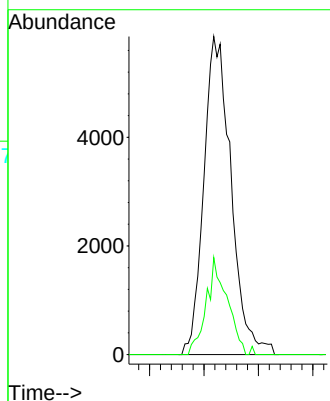
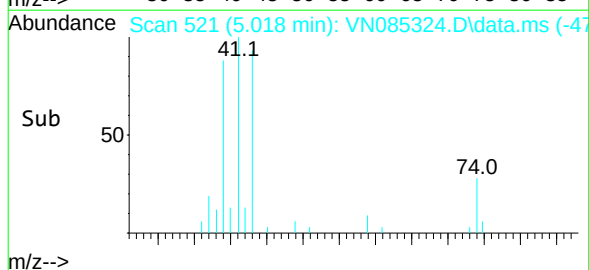


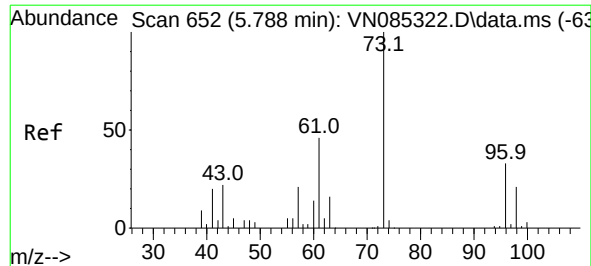
Tgt Ion: 43 Resp: 20355

Ion Ratio Lower Upper

43 100

74 23.4 19.0 28.6





#19

Methyl tert-butyl Ether

Concen: 9.911 ug/l

RT: 5.783 min Scan# 65

Delta R.T. -0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 73 Resp: 50046

Ion Ratio Lower Upper

73 100

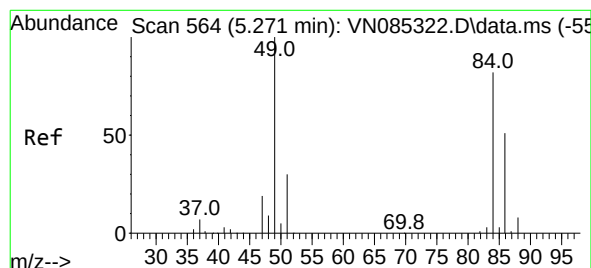
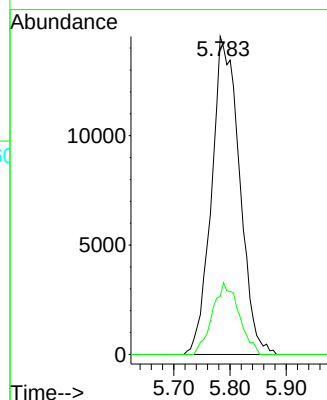
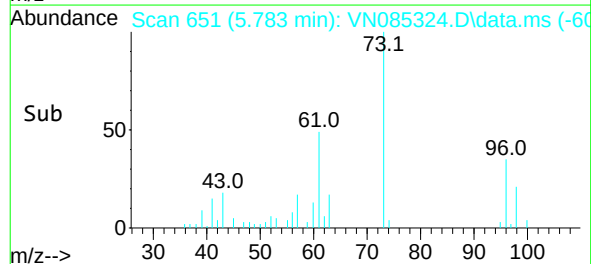
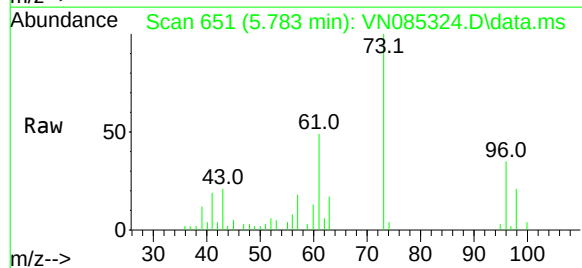
57 18.3 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#20

Methylene Chloride

Concen: 9.892 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion: 84 Resp: 17446

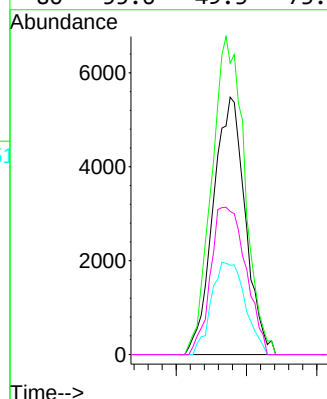
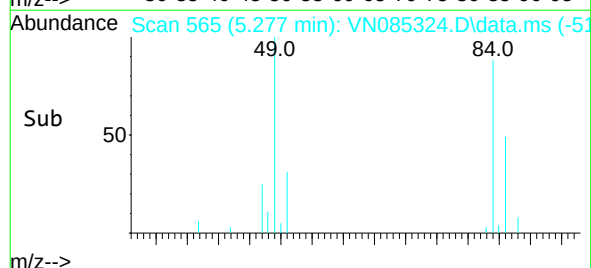
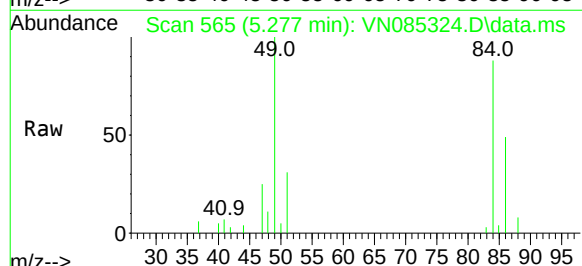
Ion Ratio Lower Upper

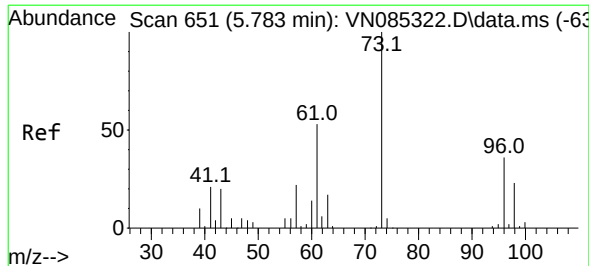
84 100

49 113.2 97.6 146.4

51 34.7 29.1 43.7

86 55.6 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 9.802 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085324.D

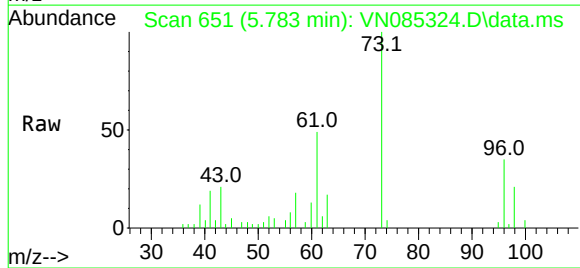
Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

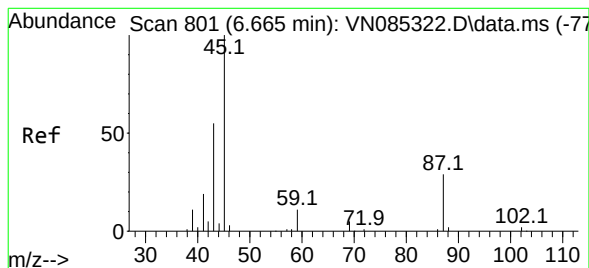
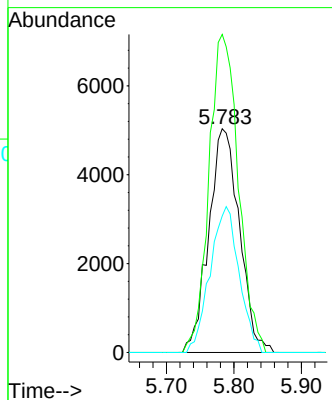
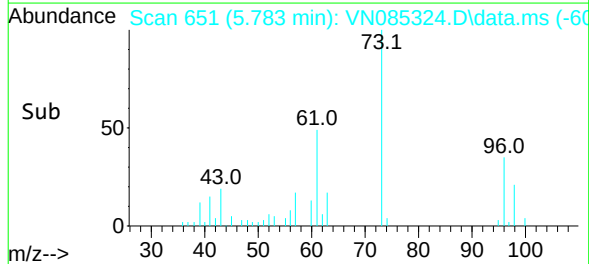
VSTDIC010



Tgt Ion:	96	Resp:	15908
Ion	Ratio	Lower	Upper
96	100		
61	142.2	118.0	177.0
98	61.0	50.6	75.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#22

Diisopropyl ether

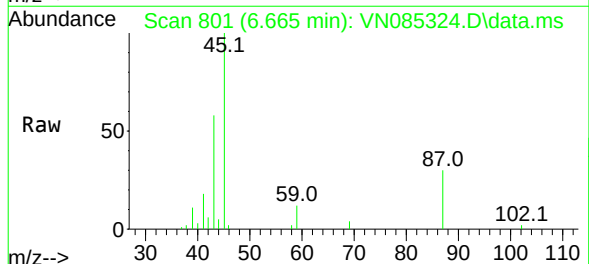
Concen: 9.967 ug/l

RT: 6.665 min Scan# 801

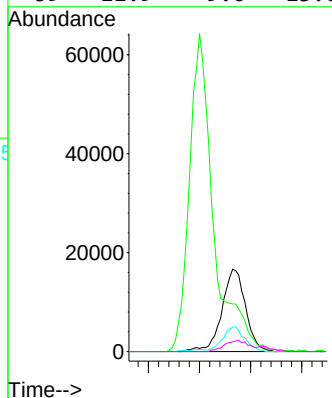
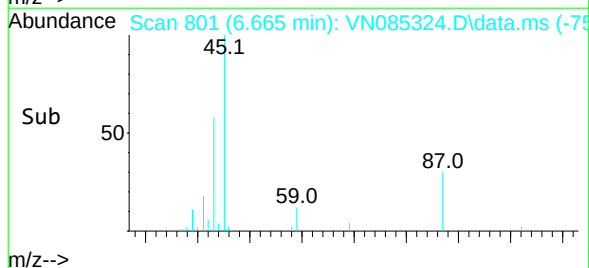
Delta R.T. 0.000 min

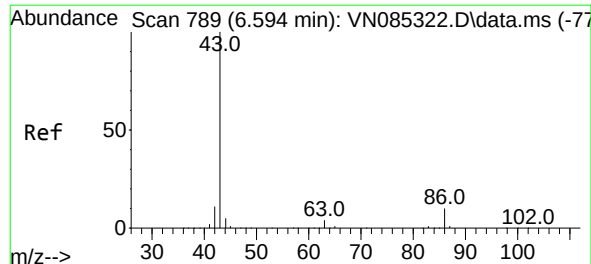
Lab File: VN085324.D

Acq: 27 Dec 2024 11:37



Tgt Ion:	45	Resp:	53406
Ion	Ratio	Lower	Upper
45	100		
43	55.7	44.1	66.1
87	29.7	23.2	34.8
59	11.9	9.0	13.6





#23

Vinyl Acetate

Concen: 49.267 ug/l m

RT: 6.600 min Scan# 79

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 189768

Ion Ratio Lower Upper

43 100

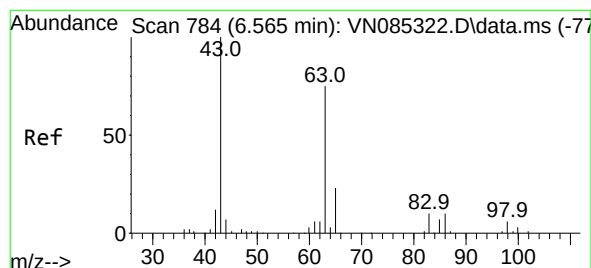
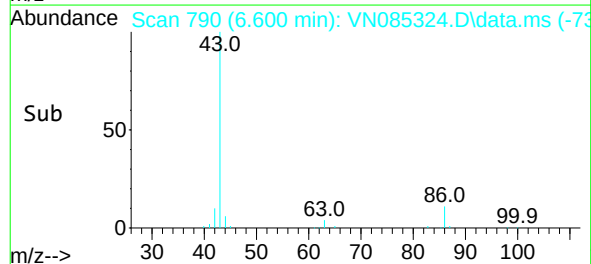
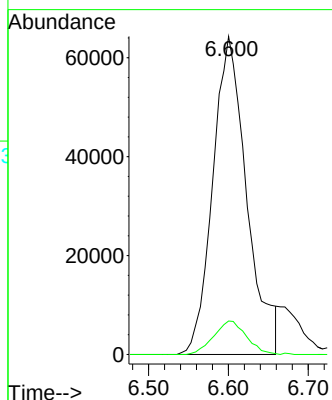
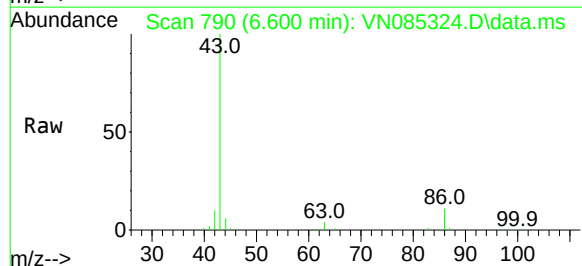
86 10.5 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#24

1,1-Dichloroethane

Concen: 9.883 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

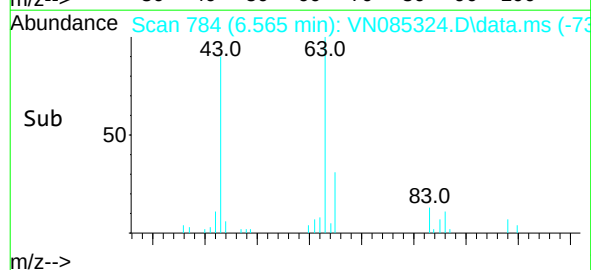
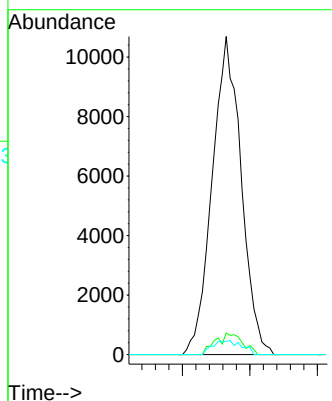
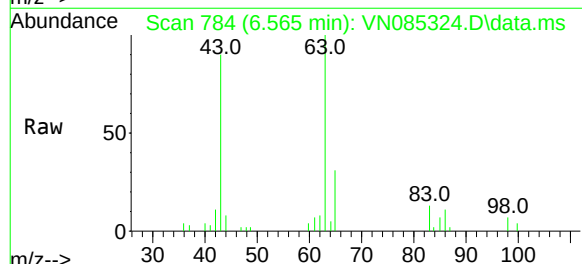
Tgt Ion: 63 Resp: 31897

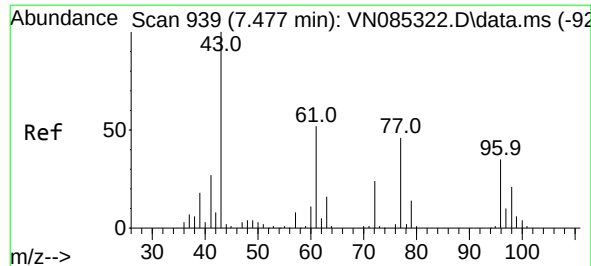
Ion Ratio Lower Upper

63 100

98 6.8 3.7 11.1

100 4.2 2.3 6.8





#25

2-Butanone

Concen: 49.771 ug/l

RT: 7.482 min Scan# 940

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 43 Resp: 50628

Ion Ratio Lower Upper

43 100

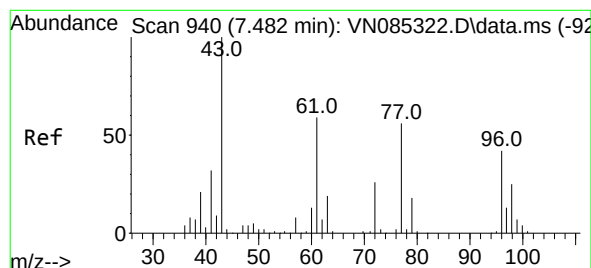
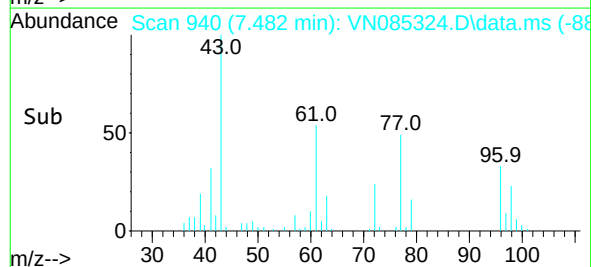
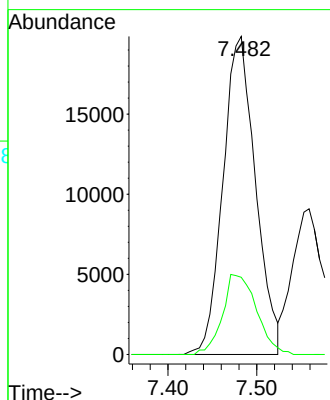
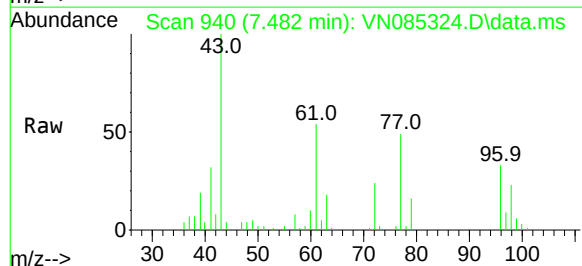
72 24.3 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#26

2,2-Dichloropropane

Concen: 9.834 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085324.D

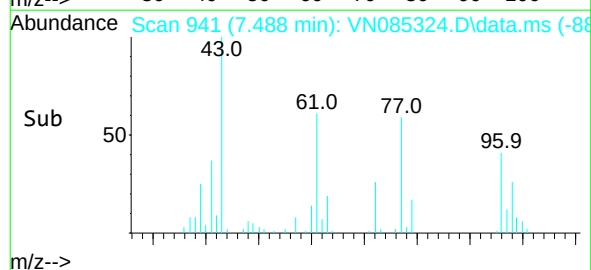
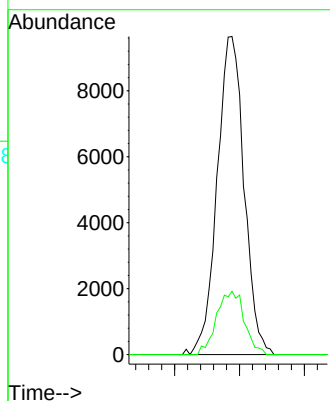
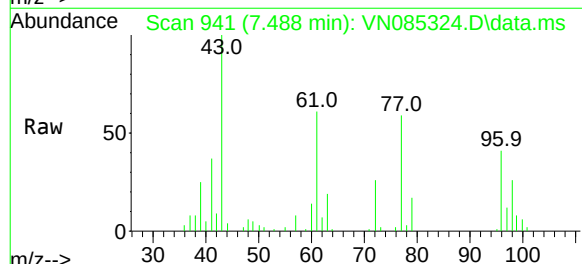
Acq: 27 Dec 2024 11:37

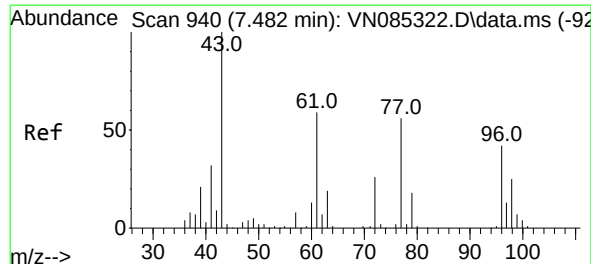
Tgt Ion: 77 Resp: 27809

Ion Ratio Lower Upper

77 100

97 20.5 10.6 31.8





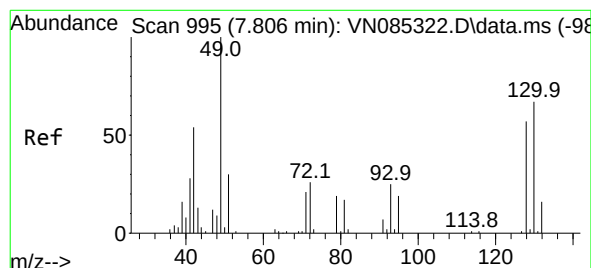
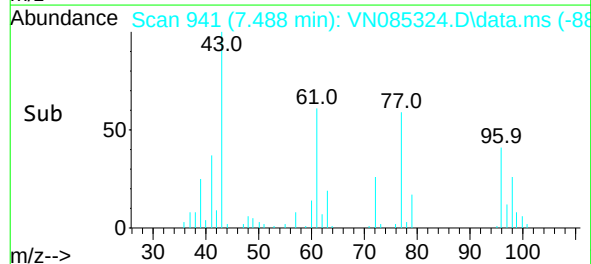
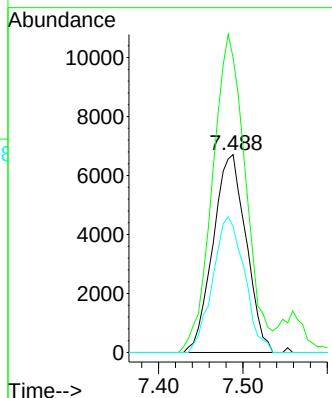
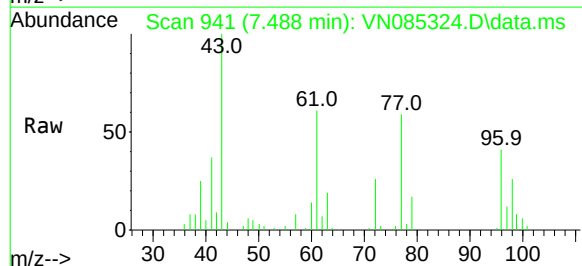
#27
cis-1,2-Dichloroethene
Concen: 9.595 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085324.D
Acq: 27 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.9	0.0	296.4
98	66.0	0.0	124.2

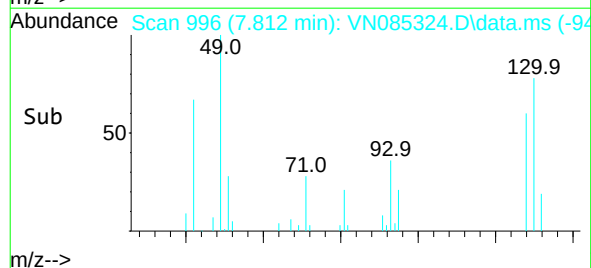
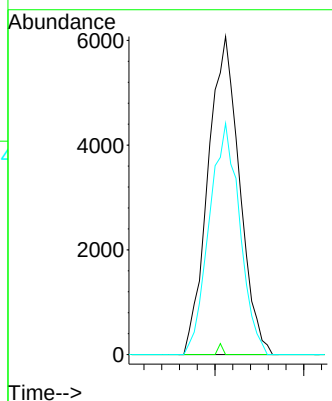
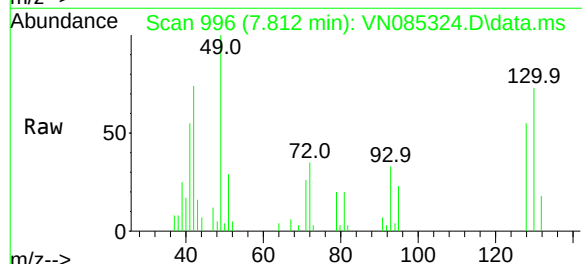
Manual Integrations
APPROVED

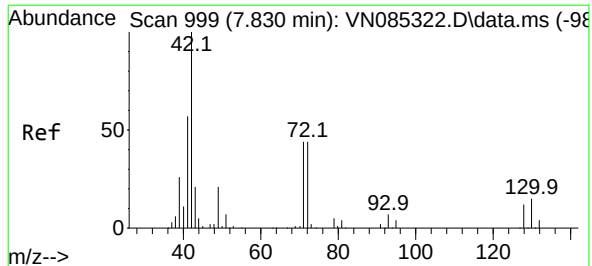
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#28
Bromochloromethane
Concen: 9.972 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085324.D
Acq: 27 Dec 2024 11:37

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.5	0.0	2.0
130	70.3	0.0	0.0#





#29

Tetrahydrofuran

Concen: 50.752 ug/l

RT: 7.835 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

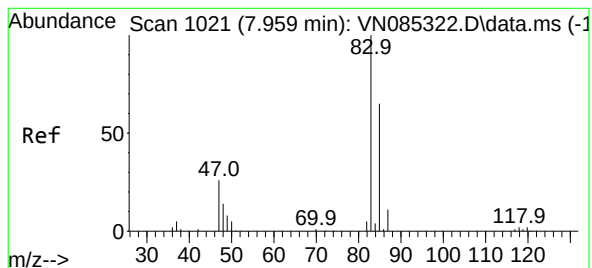
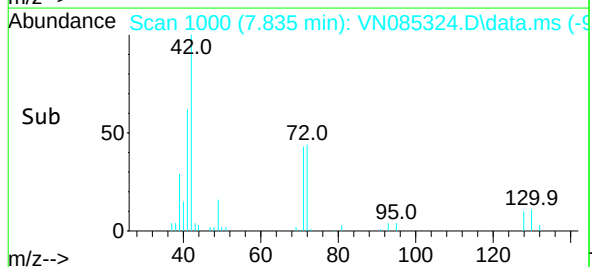
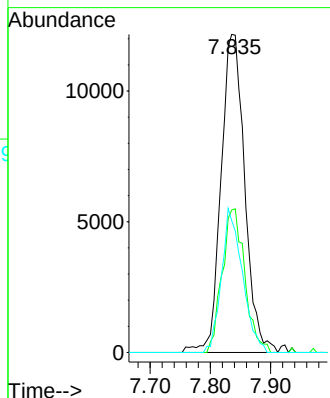
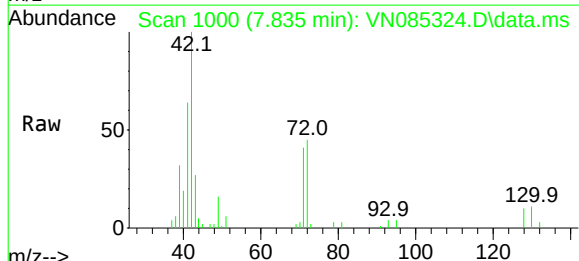
VSTDIC010

Tgt Ion:	42	Resp:	33255
Ion	Ratio	Lower	Upper
42	100		
72	43.2	35.1	52.7
71	40.0	33.4	50.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#30

Chloroform

Concen: 9.828 ug/l

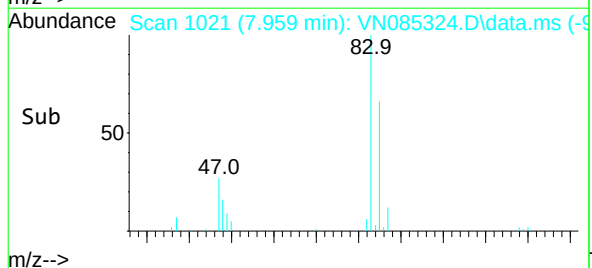
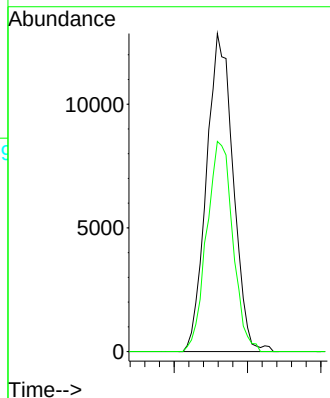
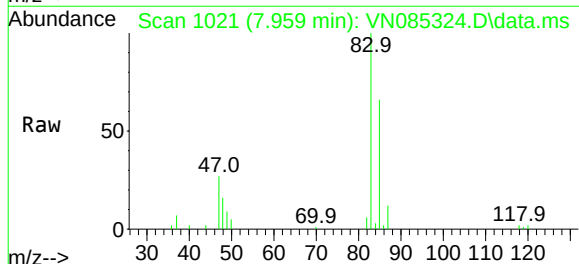
RT: 7.959 min Scan# 1021

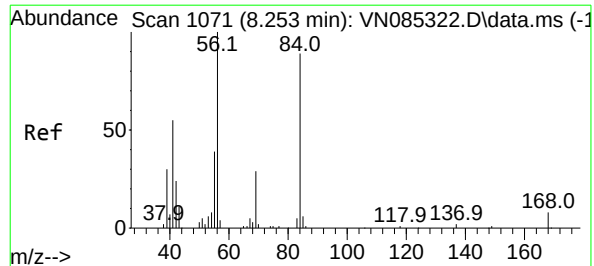
Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion:	83	Resp:	32453
Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.0	78.0





#31

Cyclohexane

Concen: 10.013 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 56 Resp: 29511

Ion Ratio Lower Upper

56 100

69 32.1 23.4 35.0

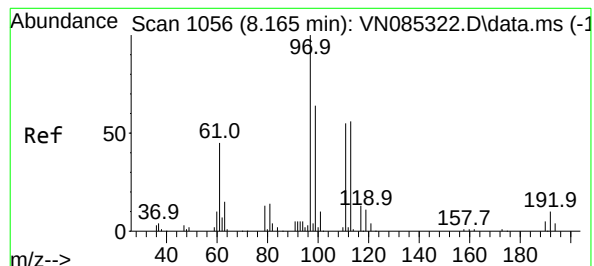
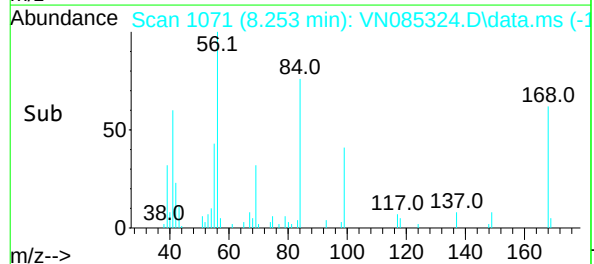
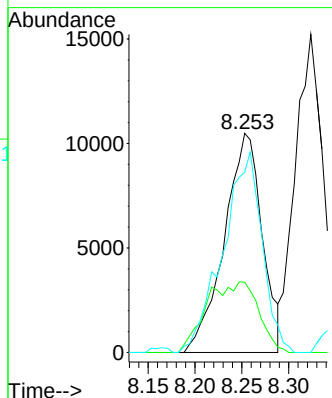
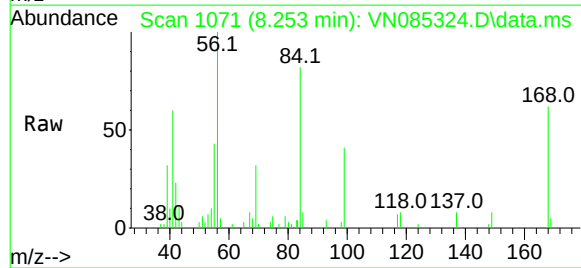
84 82.3 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#32

1,1,1-Trichloroethane

Concen: 9.926 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

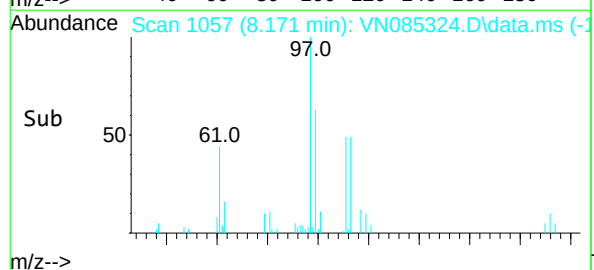
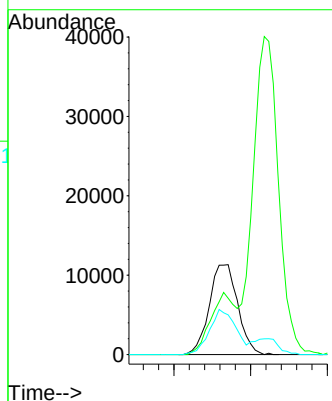
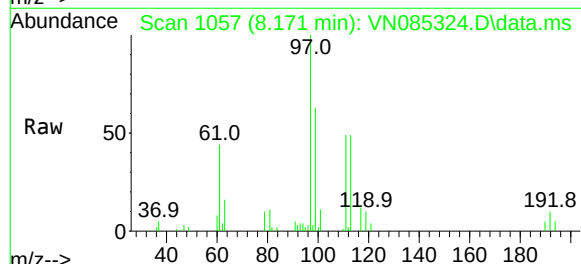
Tgt Ion: 97 Resp: 29271

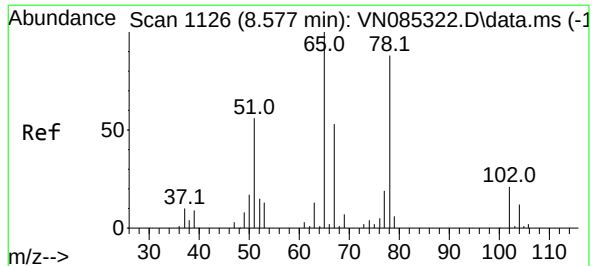
Ion Ratio Lower Upper

97 100

99 59.4 53.3 79.9

61 46.2 39.6 59.4





#33

1,2-Dichloroethane-d4

Concen: 9.702 ug/l

RT: 8.571 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 65 Resp: 19346

Ion Ratio Lower Upper

65 100

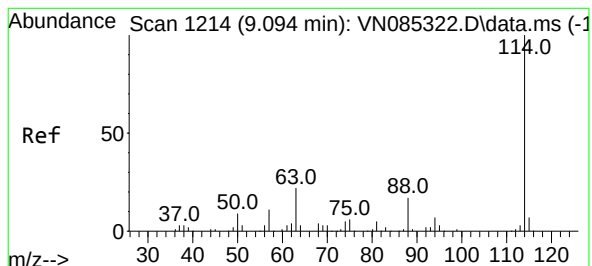
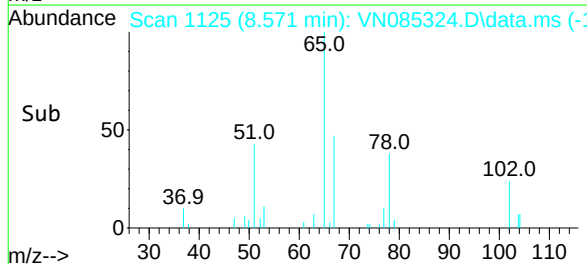
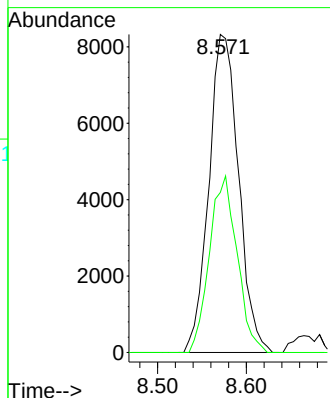
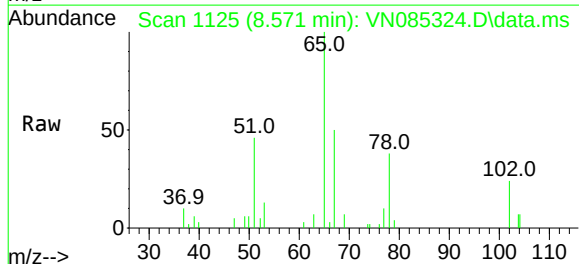
67 51.7 0.0 104.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

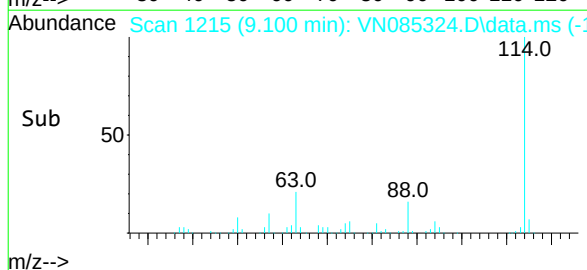
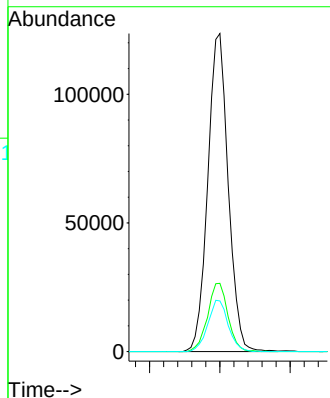
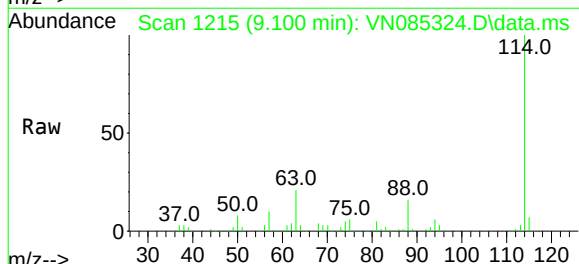
Tgt Ion:114 Resp: 249332

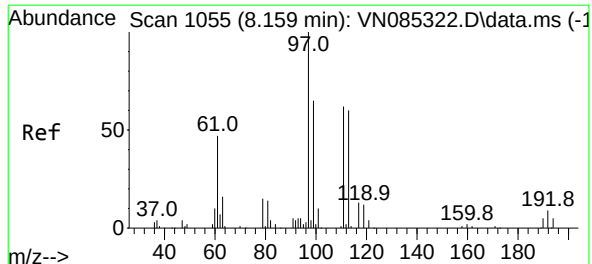
Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.4

88 15.9 0.0 33.6





#35

Dibromofluoromethane

Concen: 9.736 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

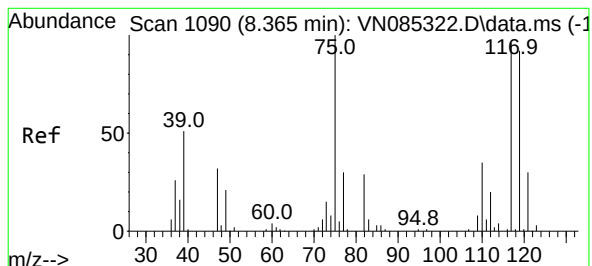
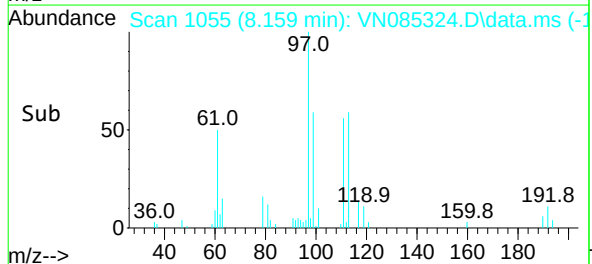
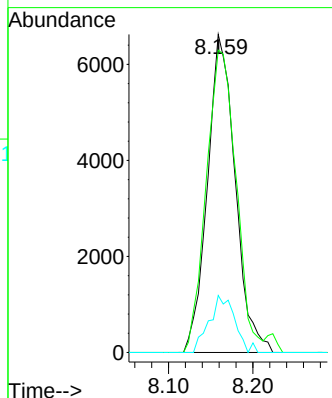
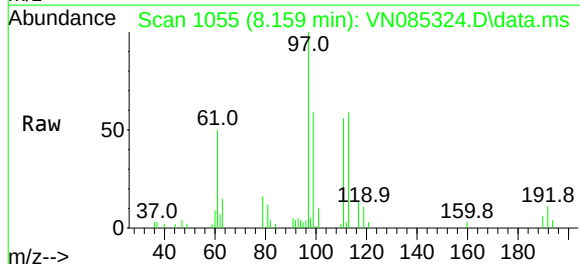
Tgt Ion:	113	Resp:	15144
Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.5	120.7
192	16.5	12.9	19.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#36

1,1-Dichloropropene

Concen: 9.675 ug/l

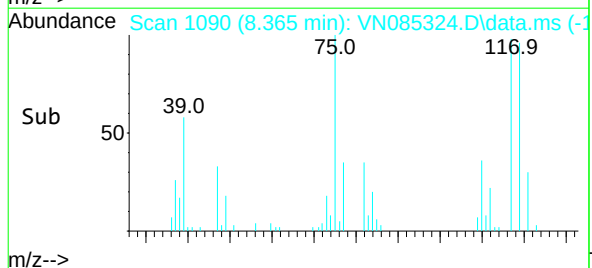
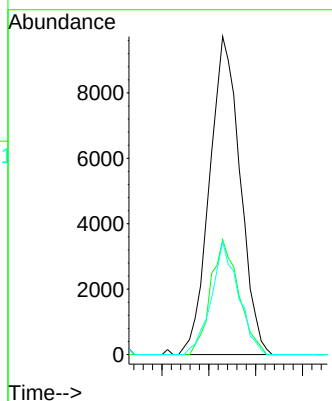
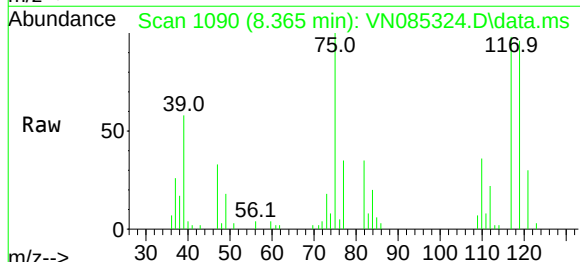
RT: 8.365 min Scan# 1090

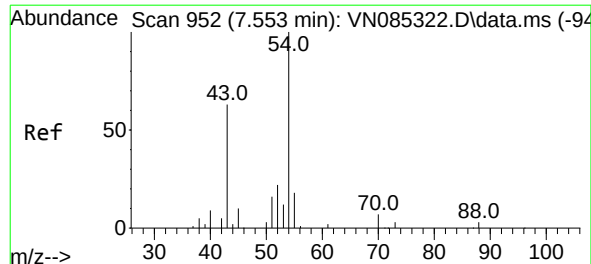
Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion:	75	Resp:	22034
Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.6	49.8
77	31.4	24.3	36.5





#37

Ethyl Acetate

Concen: 10.292 ug/l

RT: 7.559 min Scan# 95

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

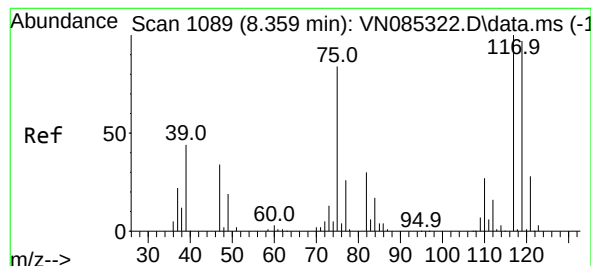
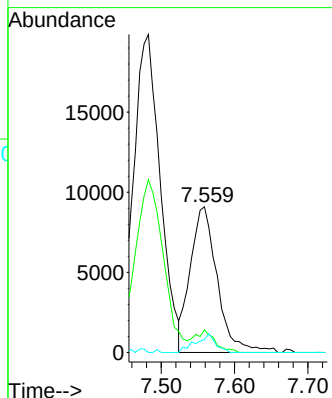
VSTDICC010

Tgt Ion:	43	Resp:	23298
Ion	Ratio	Lower	Upper
43	100		
61	11.8	10.4	15.6
70	9.2	8.2	12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#38

Carbon Tetrachloride

Concen: 9.866 ug/l

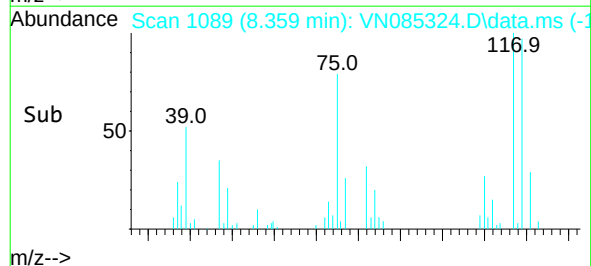
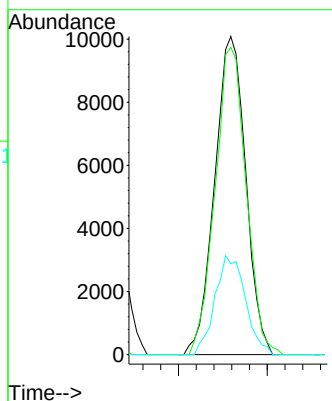
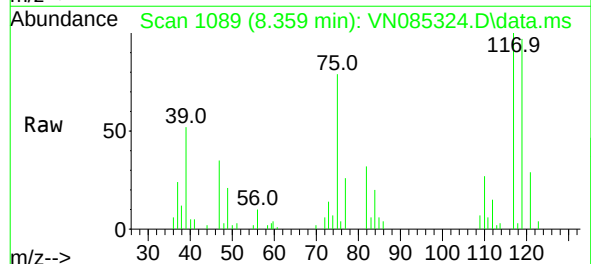
RT: 8.359 min Scan# 1089

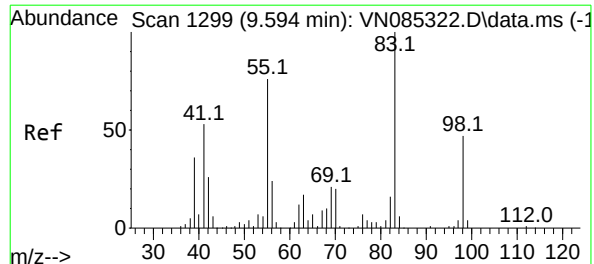
Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion:	117	Resp:	24491
Ion	Ratio	Lower	Upper
117	100		
119	96.6	77.8	116.6
121	28.6	22.5	33.7





#39

Methylcyclohexane

Concen: 9.500 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 83 Resp: 22448

Ion Ratio Lower Upper

83 100

55 78.3 60.7 91.1

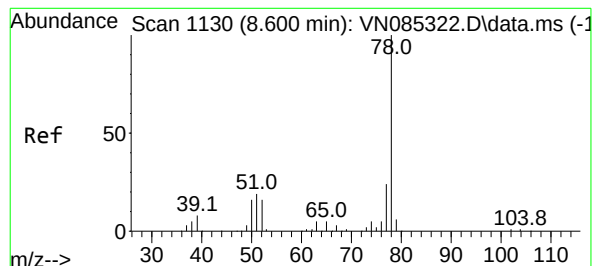
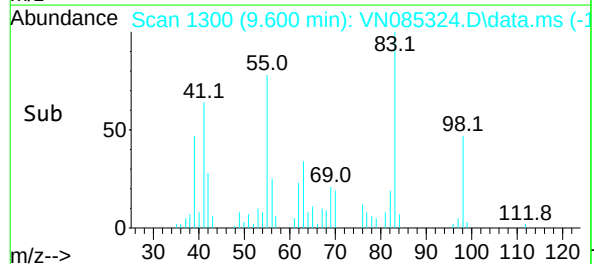
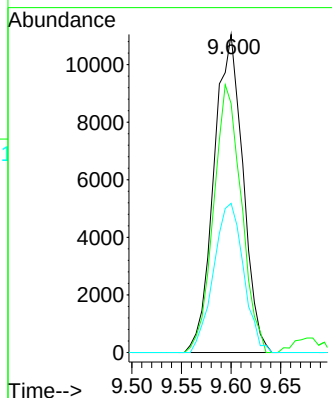
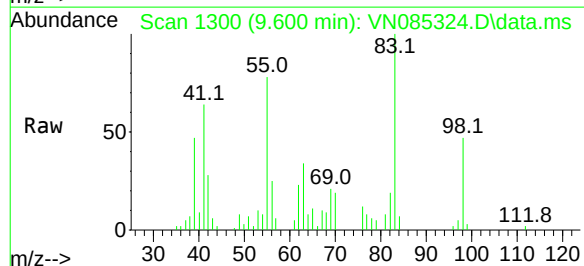
98 46.9 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#40

Benzene

Concen: 9.818 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085324.D

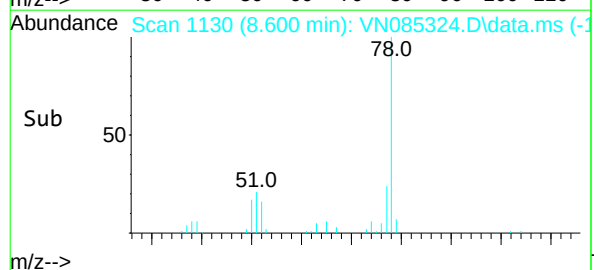
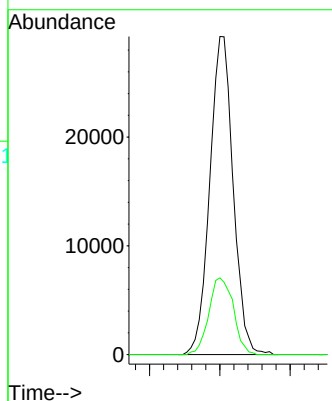
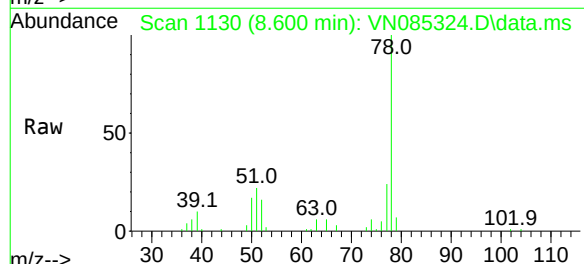
Acq: 27 Dec 2024 11:37

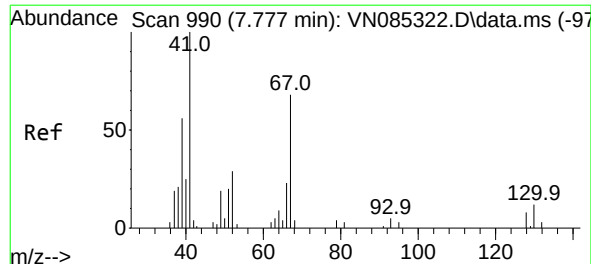
Tgt Ion: 78 Resp: 67603

Ion Ratio Lower Upper

78 100

77 24.1 19.0 28.4





#41

Methacrylonitrile

Concen: 10.429 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 41 Resp: 12091

Ion Ratio Lower Upper

41 100

39 51.4 45.8 68.8

67 69.1 57.1 85.7

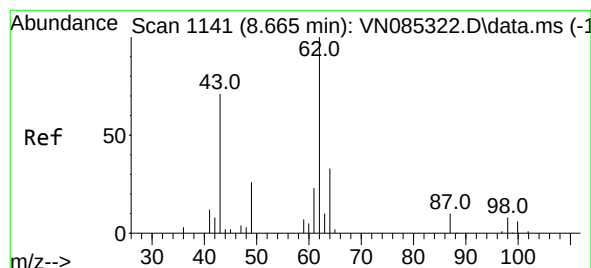
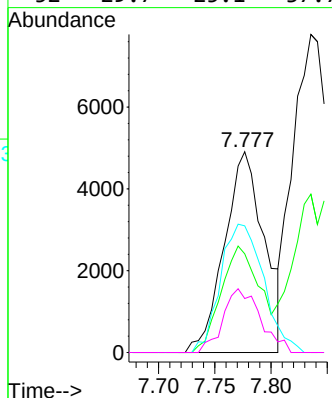
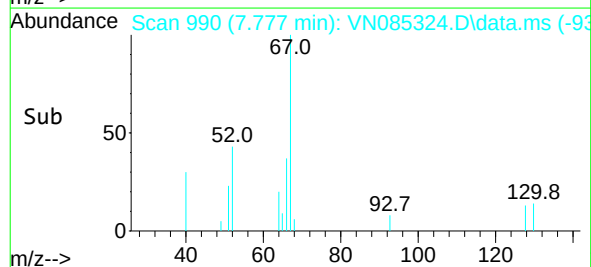
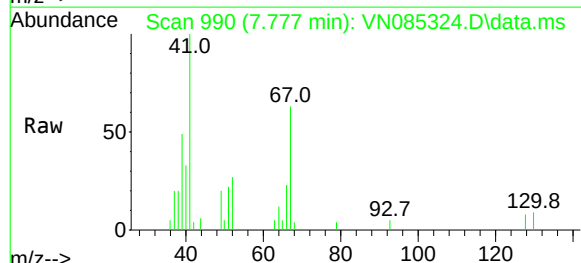
52 29.7 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#42

1,2-Dichloroethane

Concen: 9.979 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN085324.D

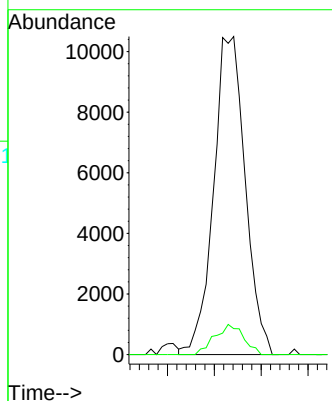
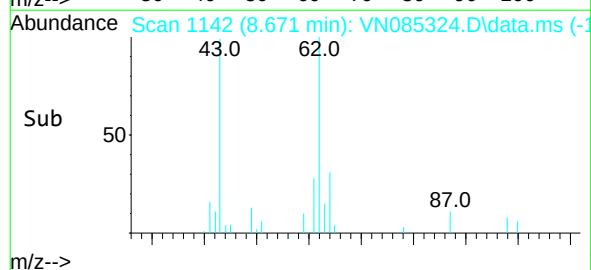
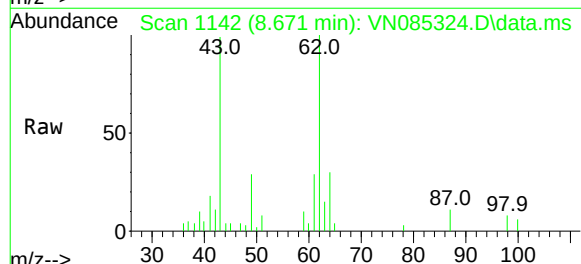
Acq: 27 Dec 2024 11:37

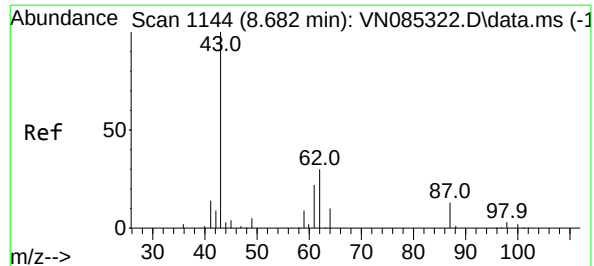
Tgt Ion: 62 Resp: 24635

Ion Ratio Lower Upper

62 100

98 8.6 0.0 17.6





#43

Isopropyl Acetate

Concen: 9.650 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

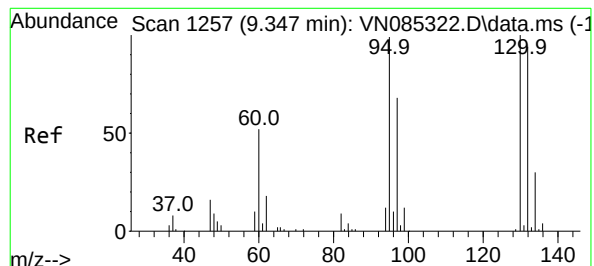
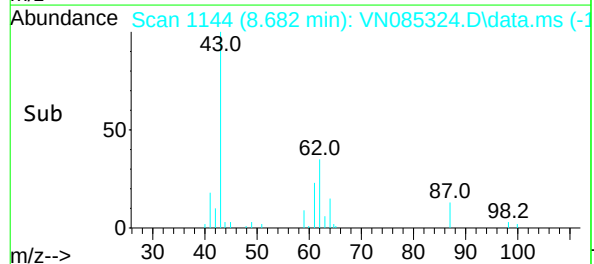
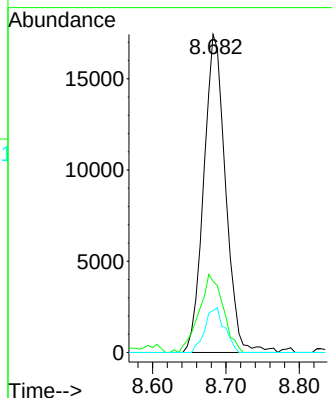
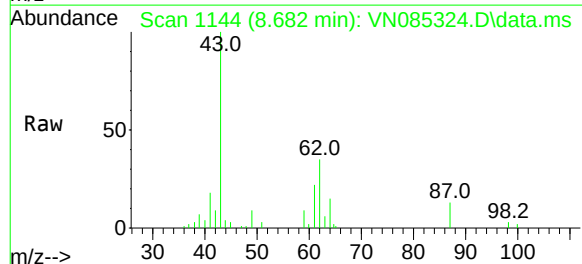
ClientSampleId :

VSTDIC010

Tgt Ion:	43	Resp:	35967
Ion	Ratio	Lower	Upper
43	100		
61	27.3	20.8	31.2
87	12.7	10.2	15.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#44

Trichloroethene

Concen: 9.472 ug/l

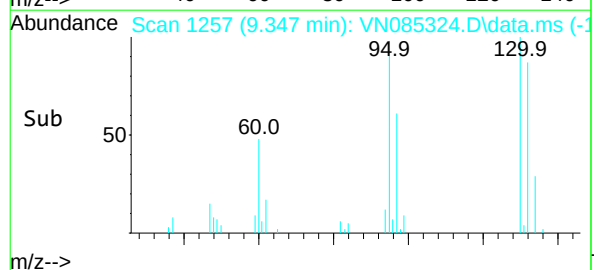
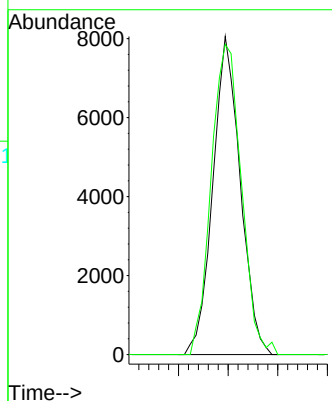
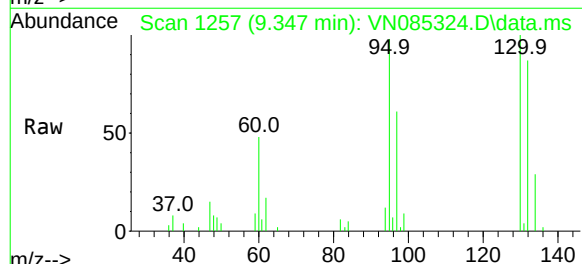
RT: 9.347 min Scan# 1257

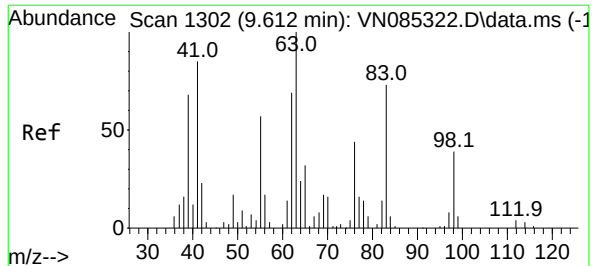
Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion:	130	Resp:	15441
Ion	Ratio	Lower	Upper
130	100		
95	97.5	0.0	197.8





#45

1,2-Dichloropropane

Concen: 10.018 ug/l

RT: 9.618 min Scan# 1302

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 63 Resp: 17511

Ion Ratio Lower Upper

63 100

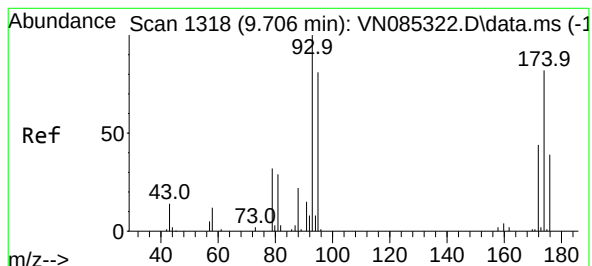
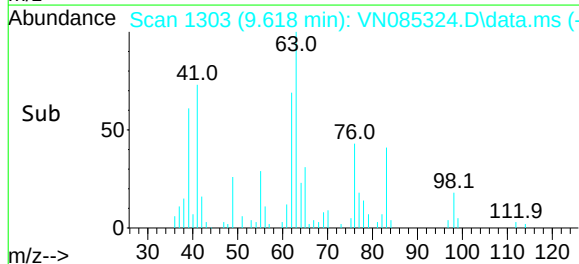
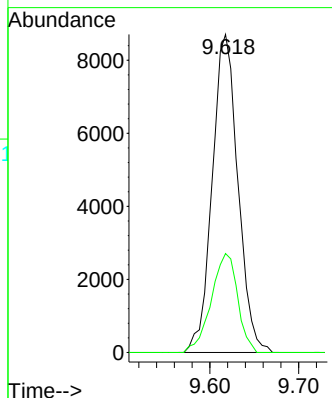
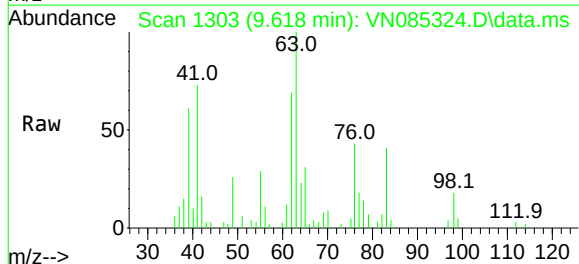
65 31.1 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#46

Dibromomethane

Concen: 10.182 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

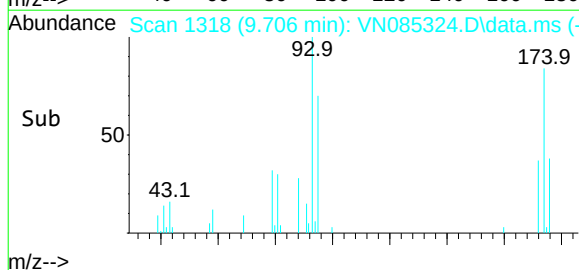
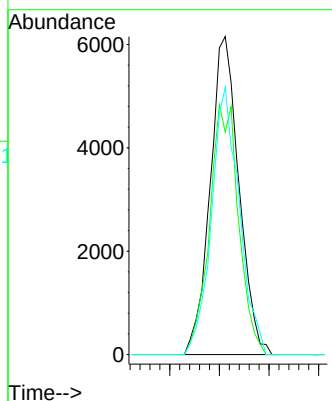
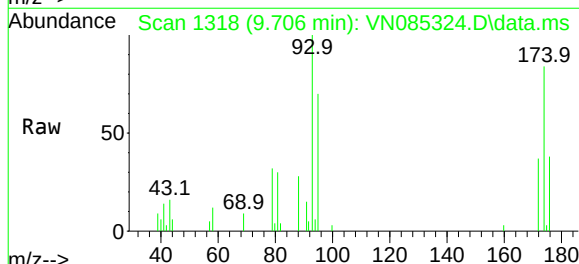
Tgt Ion: 93 Resp: 12378

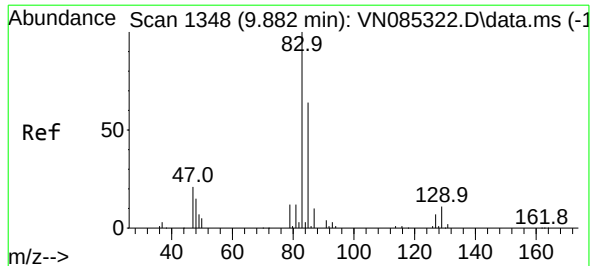
Ion Ratio Lower Upper

93 100

95 79.4 65.3 97.9

174 81.4 66.4 99.6





#47

Bromodichloromethane

Concen: 10.070 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

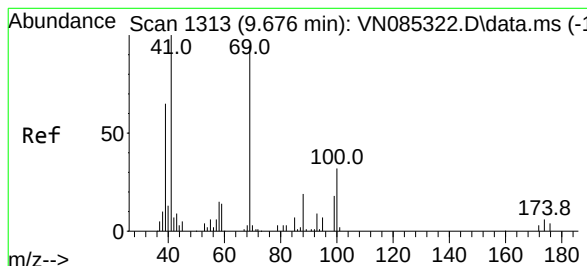
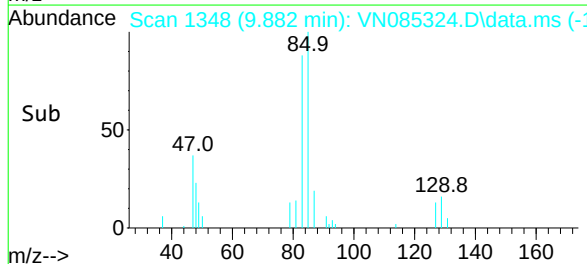
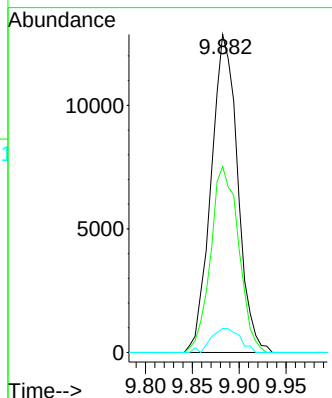
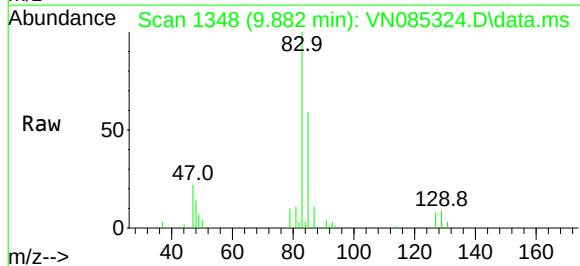
ClientSampleId :

VSTDIC010

Tgt Ion:	83	Resp:	25444
Ion	Ratio	Lower	Upper
83	100		
85	58.5	51.0	76.4
127	7.6	5.8	8.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#48

Methyl methacrylate

Concen: 9.666 ug/l

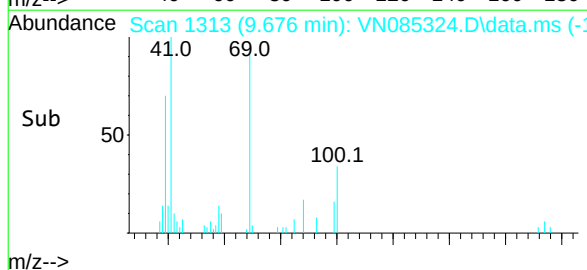
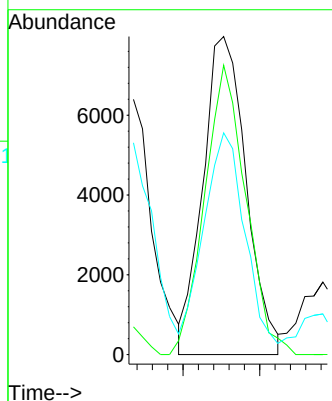
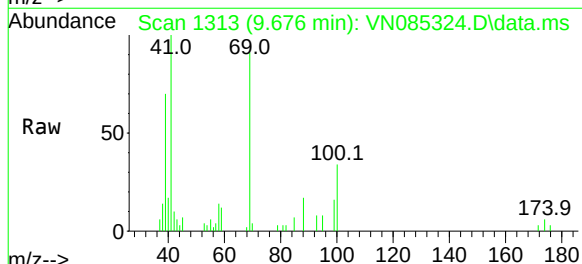
RT: 9.676 min Scan# 1313

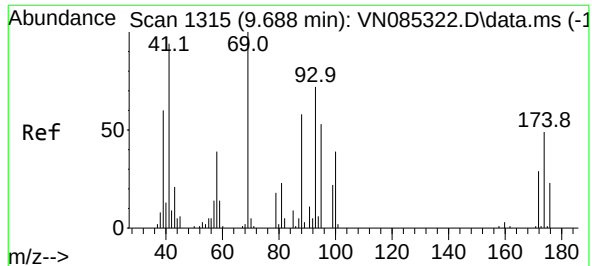
Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion:	41	Resp:	15633
Ion	Ratio	Lower	Upper
41	100		
69	86.7	67.7	101.5
39	67.7	51.2	76.8





#49

1,4-Dioxane

Concen: 219.898 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 88 Resp: 5366

Ion Ratio Lower Upper

88 100

43 30.9 22.1 33.1

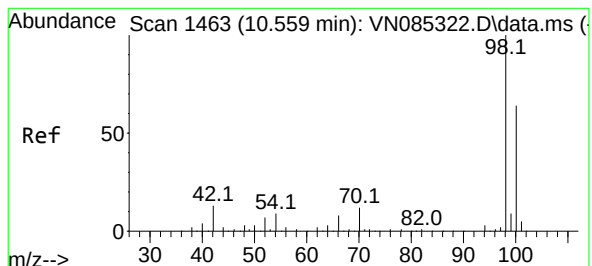
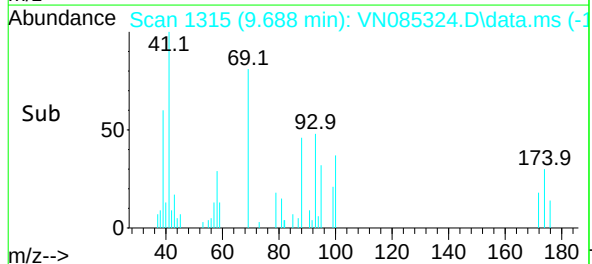
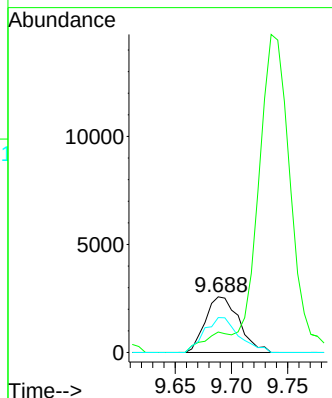
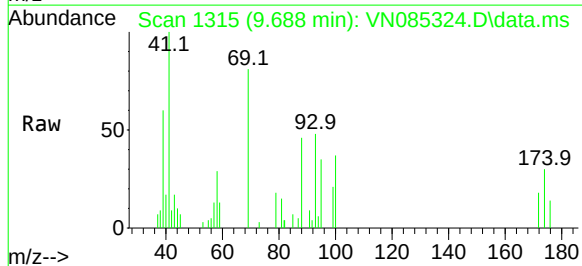
58 64.1 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#50

Toluene-d8

Concen: 9.392 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085324.D

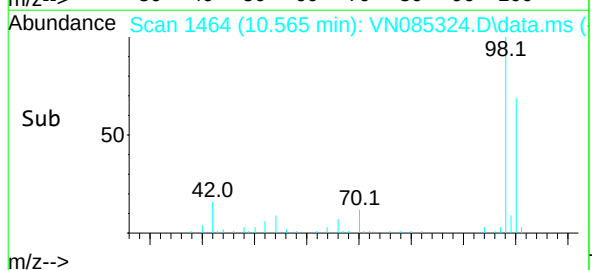
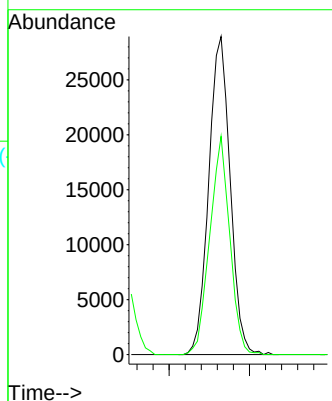
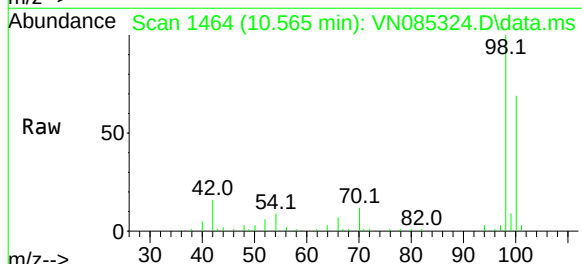
Acq: 27 Dec 2024 11:37

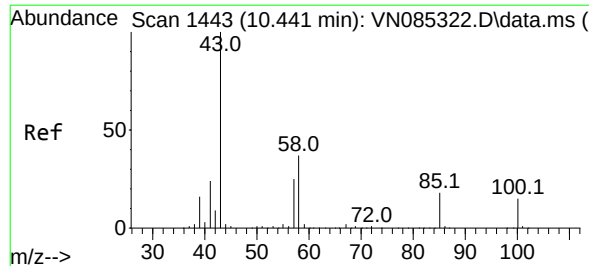
Tgt Ion: 98 Resp: 53607

Ion Ratio Lower Upper

98 100

100 64.1 51.5 77.3





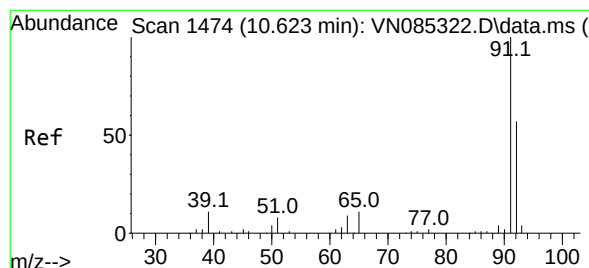
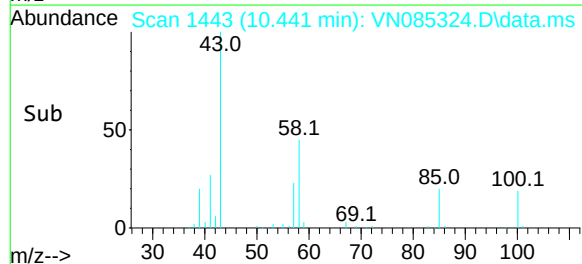
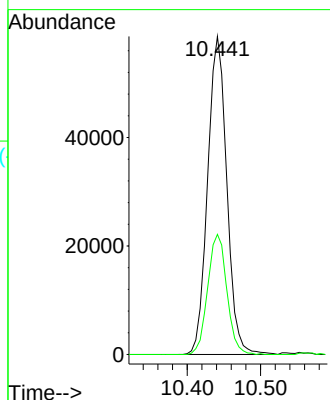
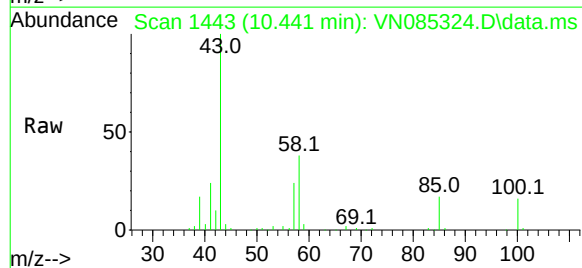
#51
4-Methyl-2-Pentanone
Concen: 50.877 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085324.D
Acq: 27 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 106569
Ion Ratio Lower Upper
43 100
58 37.7 30.3 45.5

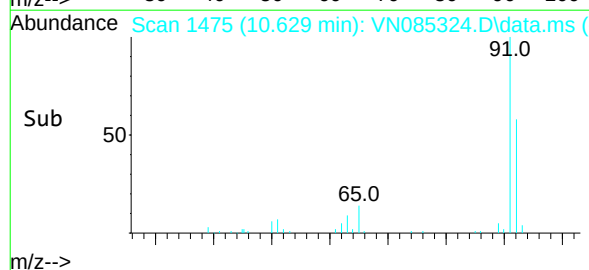
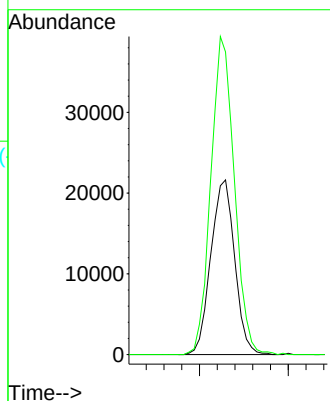
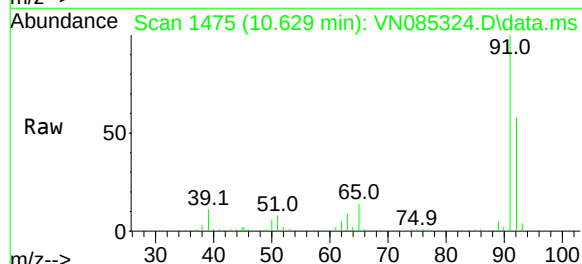
Manual Integrations
APPROVED

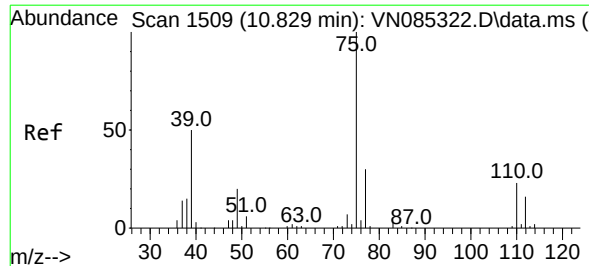
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#52
Toluene
Concen: 9.853 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085324.D
Acq: 27 Dec 2024 11:37

Tgt Ion: 92 Resp: 40396
Ion Ratio Lower Upper
92 100
91 179.4 140.2 210.4





#53

t-1,3-Dichloropropene

Concen: 9.699 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 75 Resp: 24100

Ion Ratio Lower Upper

75 100

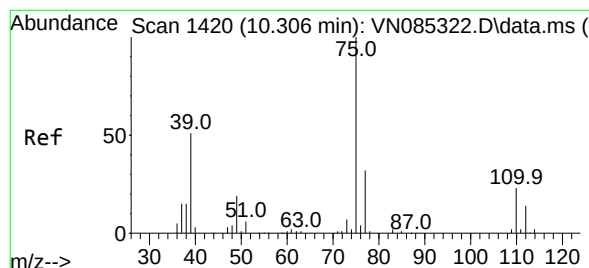
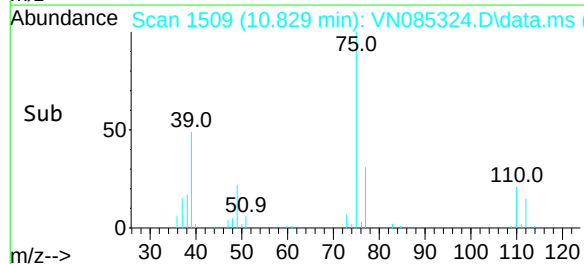
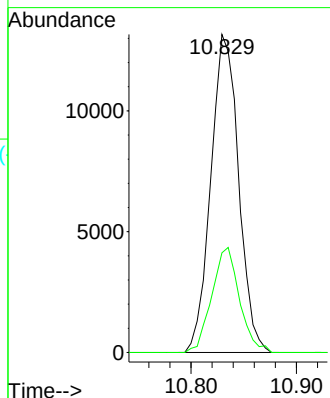
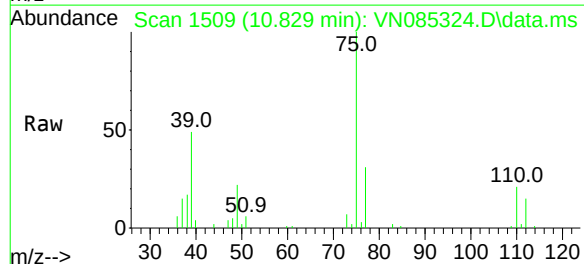
77 31.3 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#54

cis-1,3-Dichloropropene

Concen: 9.754 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

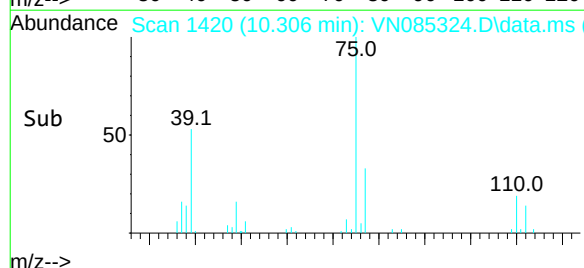
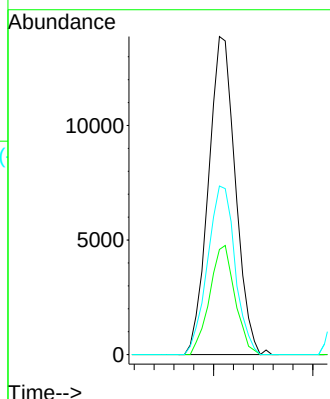
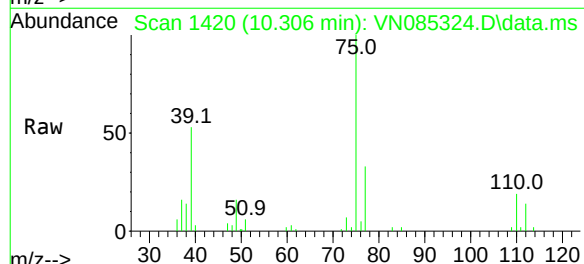
Tgt Ion: 75 Resp: 26207

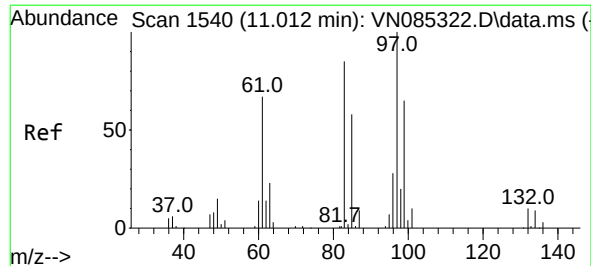
Ion Ratio Lower Upper

75 100

77 33.1 25.5 38.3

39 53.0 40.5 60.7





#55

1,1,2-Trichloroethane

Concen: 9.586 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 97 Resp: 14839

Ion Ratio Lower Upper

97 100

83 100.1 67.7 101.5

85 62.1 46.2 69.4

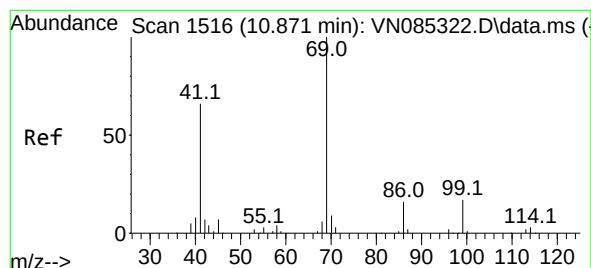
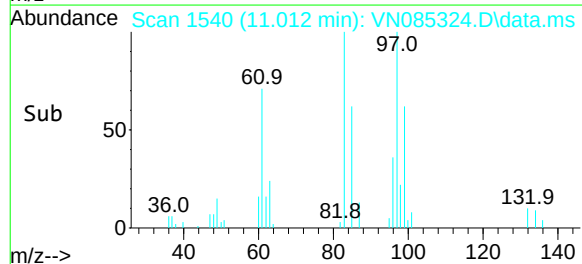
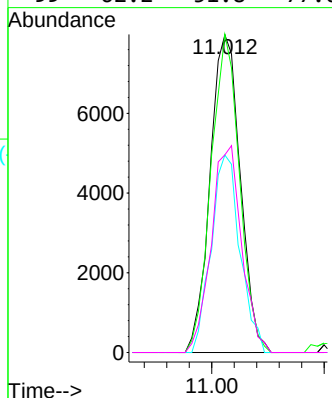
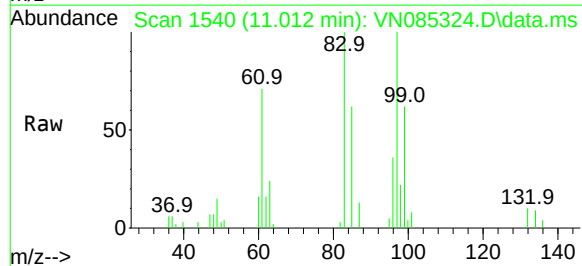
99 62.2 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#56

Ethyl methacrylate

Concen: 10.054 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

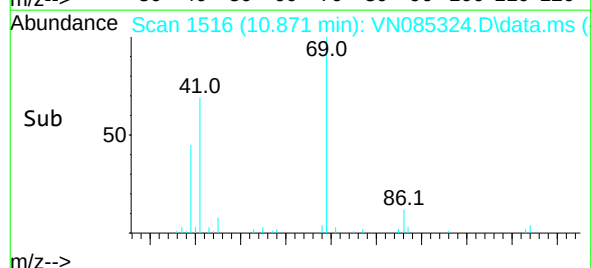
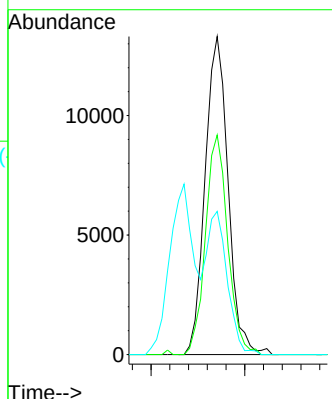
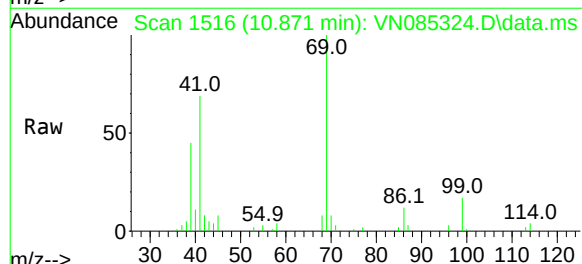
Tgt Ion: 69 Resp: 22666

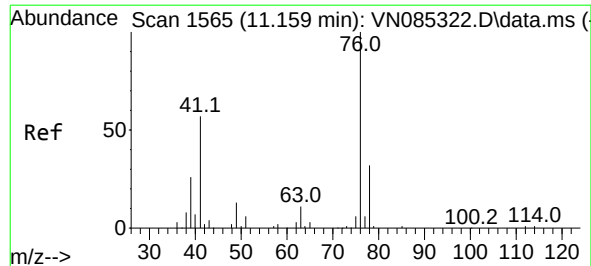
Ion Ratio Lower Upper

69 100

41 67.0 54.3 81.5

39 40.7 32.0 48.0





#57

1,3-Dichloropropane

Concen: 9.864 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 76 Resp: 26800

Ion Ratio Lower Upper

76 100

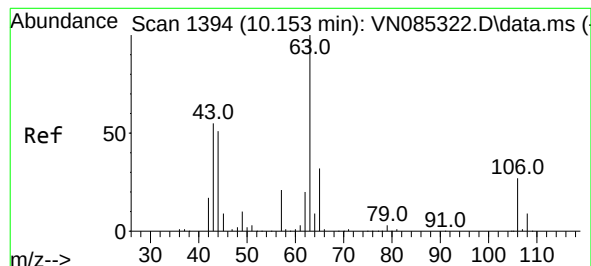
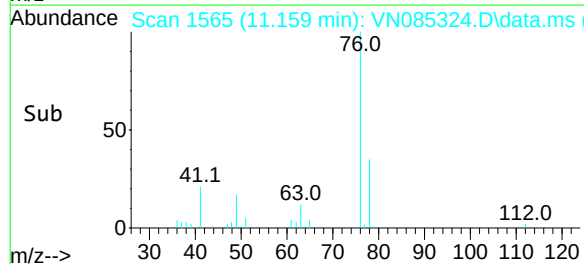
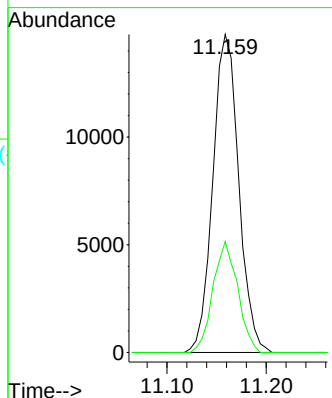
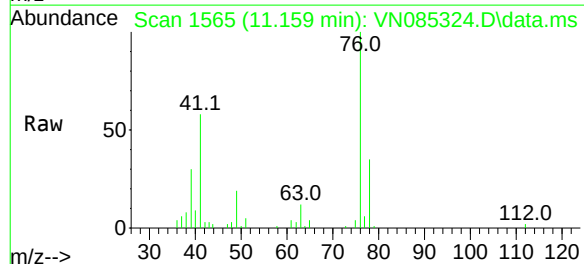
78 33.3 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#58

2-Chloroethyl Vinyl ether

Concen: 52.985 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VN085324.D

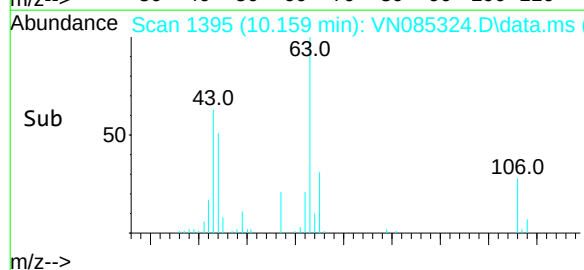
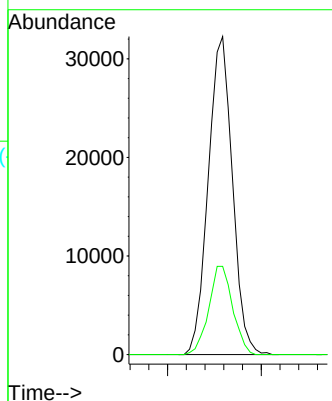
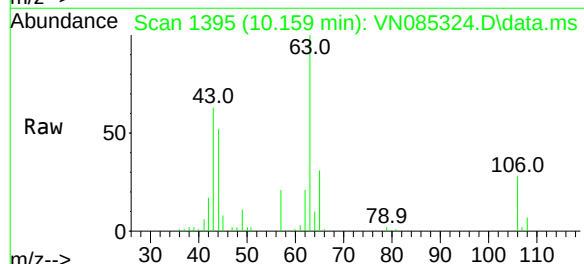
Acq: 27 Dec 2024 11:37

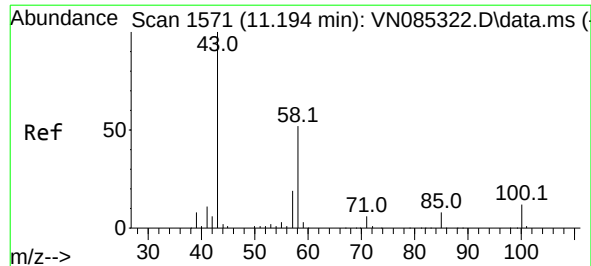
Tgt Ion: 63 Resp: 57793

Ion Ratio Lower Upper

63 100

106 27.5 22.1 33.1





#59

2-Hexanone

Concen: 50.521 ug/l

RT: 11.188 min Scan# 1571

Delta R.T. -0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 43 Resp: 73420

Ion Ratio Lower Upper

43 100

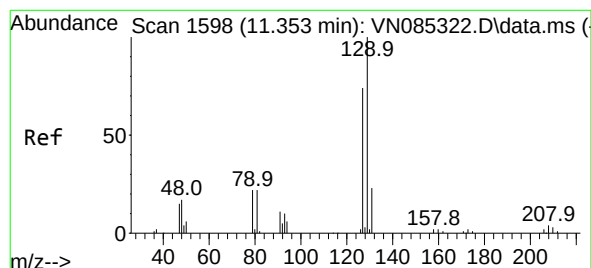
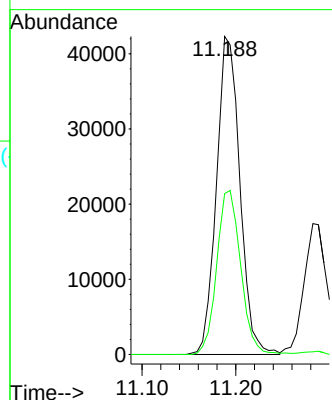
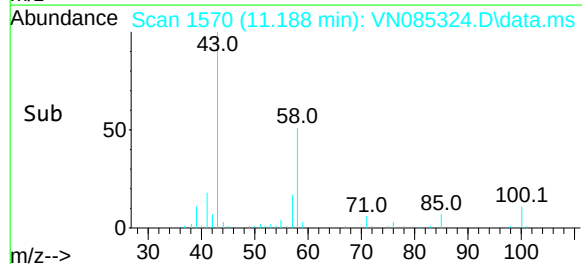
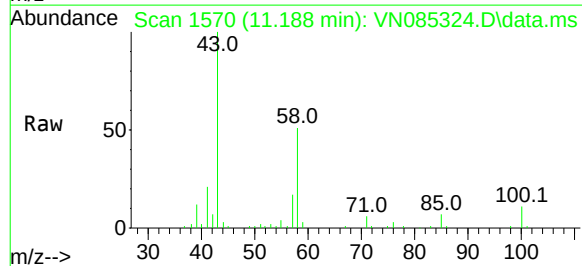
58 52.7 26.5 79.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#60

Dibromochloromethane

Concen: 9.884 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085324.D

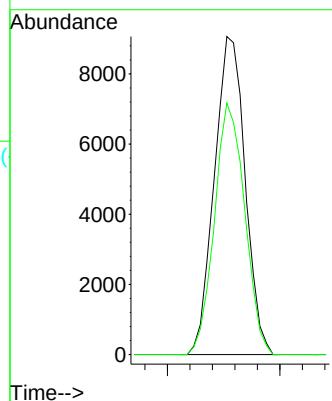
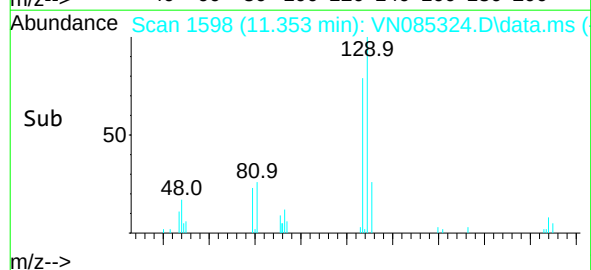
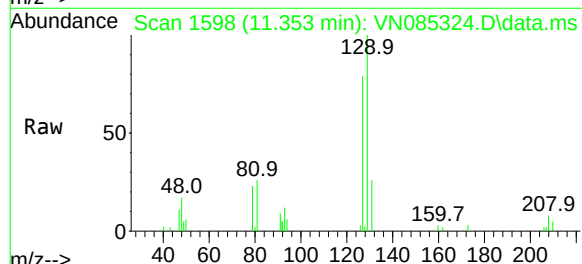
Acq: 27 Dec 2024 11:37

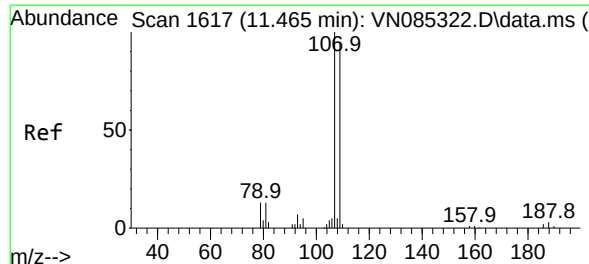
Tgt Ion:129 Resp: 17232

Ion Ratio Lower Upper

129 100

127 77.7 38.3 114.9





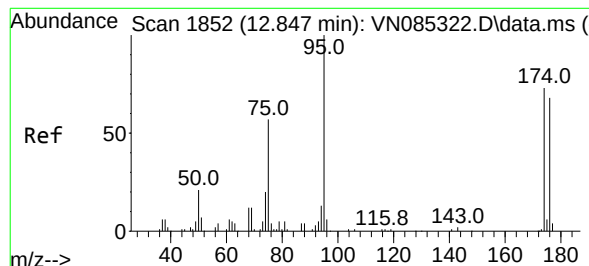
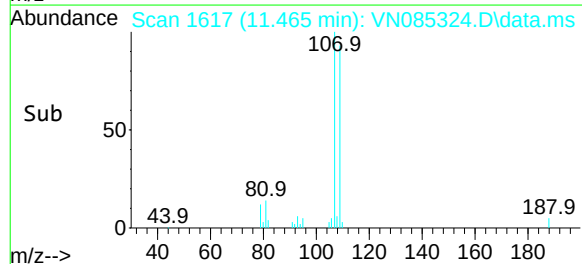
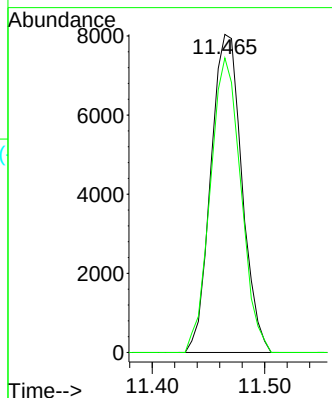
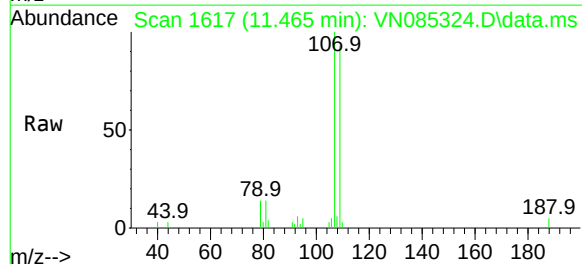
#61
1,2-Dibromoethane
Concen: 10.064 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085324.D
Acq: 27 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion: 107 Resp: 15412
Ion Ratio Lower Upper
107 100
109 91.6 74.9 112.3

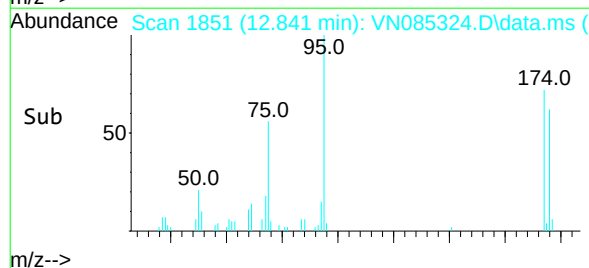
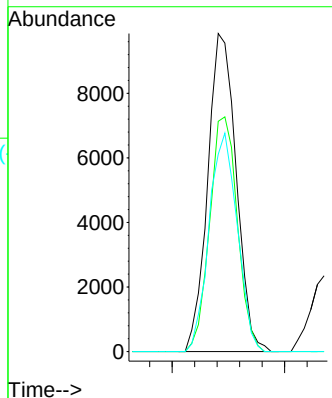
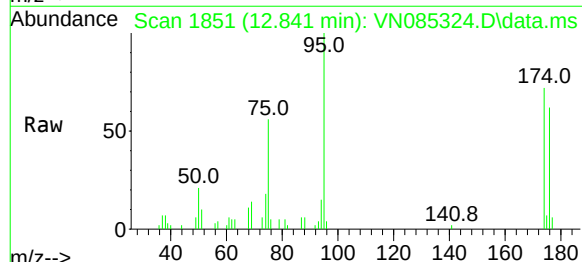
Manual Integrations
APPROVED

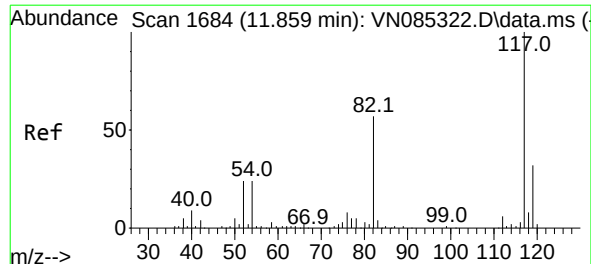
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#62
4-Bromofluorobenzene
Concen: 9.141 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. -0.006 min
Lab File: VN085324.D
Acq: 27 Dec 2024 11:37

Tgt Ion: 95 Resp: 17328
Ion Ratio Lower Upper
95 100
174 71.8 0.0 143.2
176 68.0 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1684

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:117 Resp: 215410

Ion Ratio Lower Upper

117 100

82 57.7 45.7 68.5

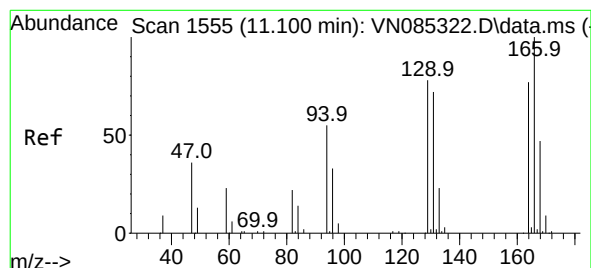
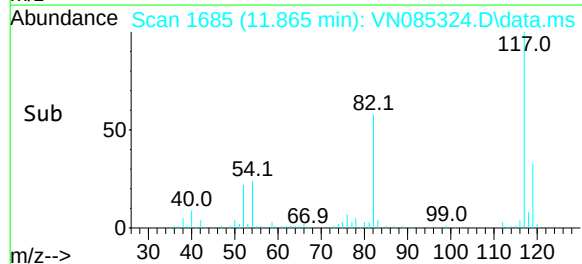
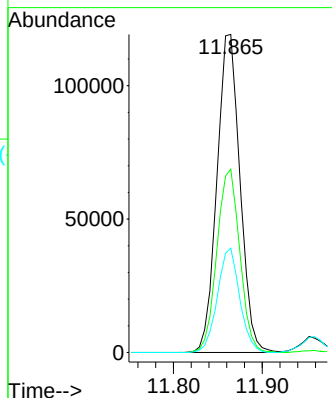
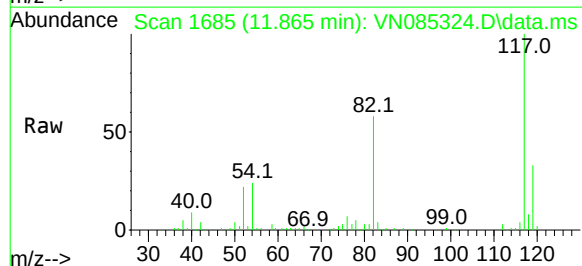
119 32.8 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#64

Tetrachloroethene

Concen: 10.457 ug/l

RT: 11.094 min Scan# 1554

Delta R.T. -0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion:164 Resp: 14273

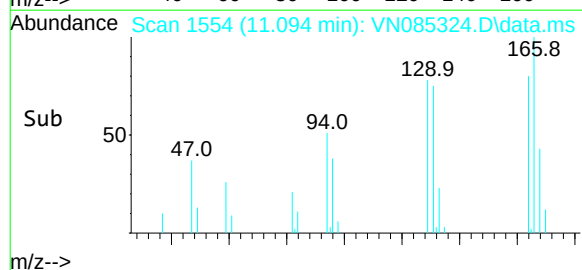
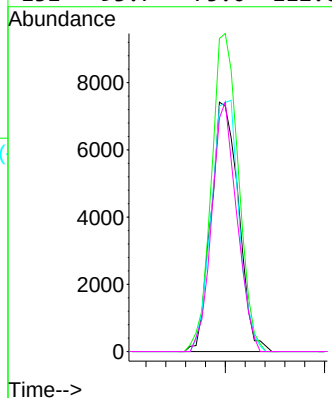
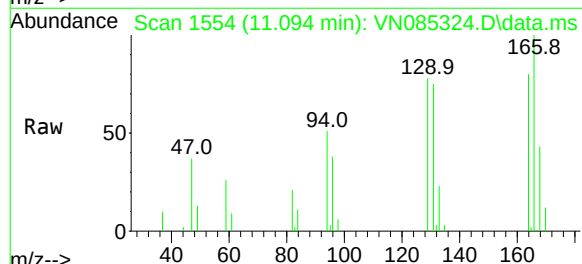
Ion Ratio Lower Upper

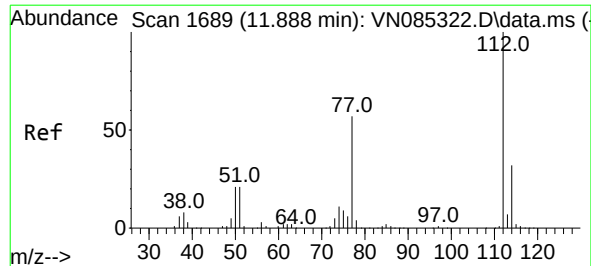
164 100

166 125.5 104.0 156.0

129 98.4 81.3 121.9

131 93.7 75.0 112.6





#65

Chlorobenzene

Concen: 9.541 ug/l

RT: 11.888 min Scan# 16

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:112 Resp: 44413

Ion Ratio Lower Upper

112 100

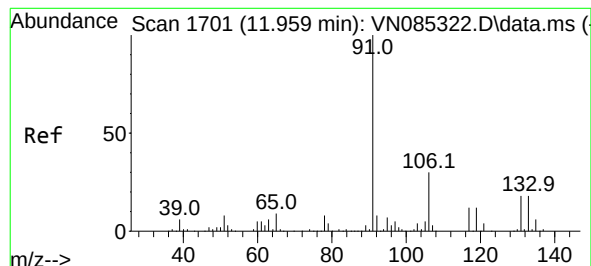
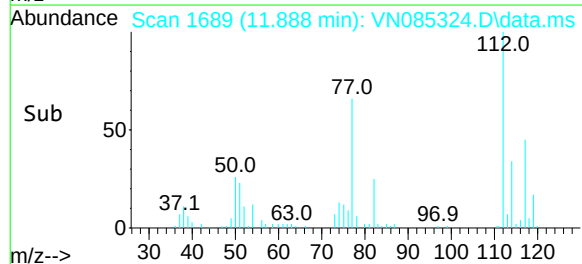
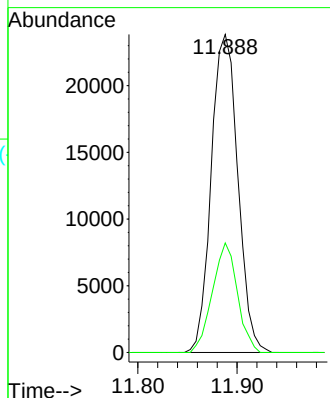
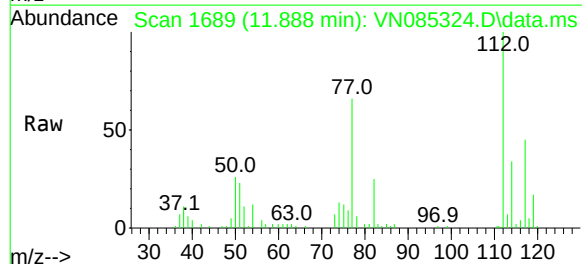
114 34.4 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 9.670 ug/l

RT: 11.953 min Scan# 1700

Delta R.T. -0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

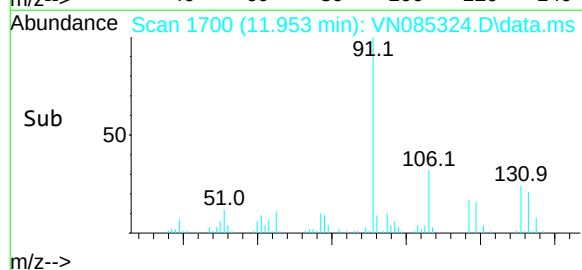
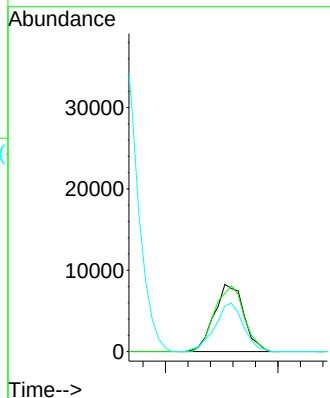
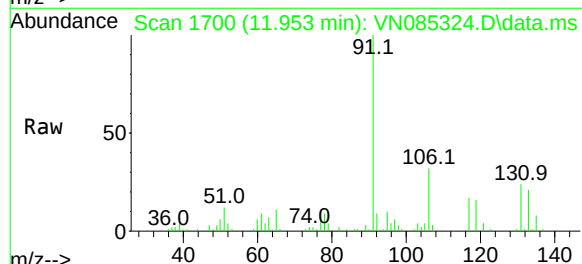
Tgt Ion:131 Resp: 15107

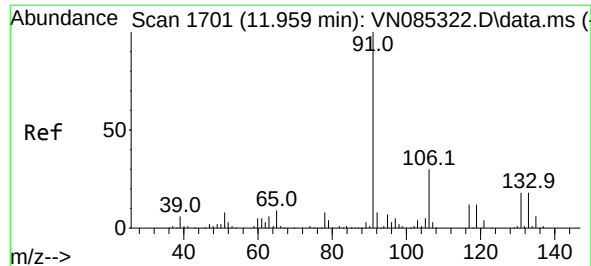
Ion Ratio Lower Upper

131 100

133 98.3 48.3 144.9

119 69.5 33.4 100.1





#67

Ethyl Benzene

Concen: 9.544 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion: 91 Resp: 73883

Ion Ratio Lower Upper

91 100

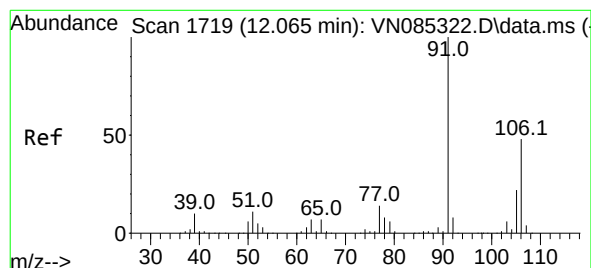
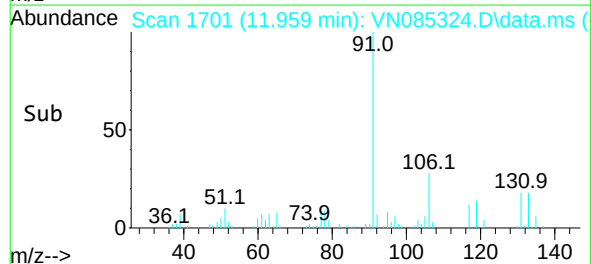
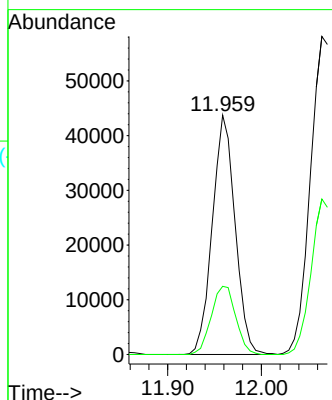
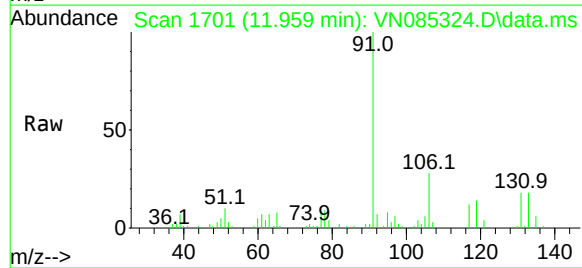
106 28.5 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#68

m/p-Xylenes

Concen: 19.288 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085324.D

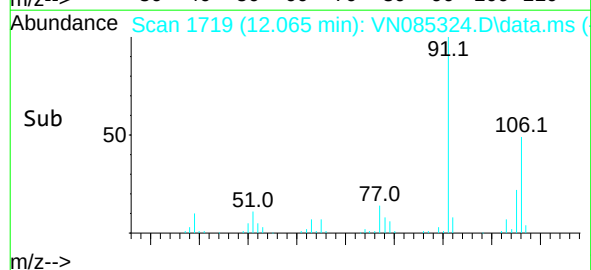
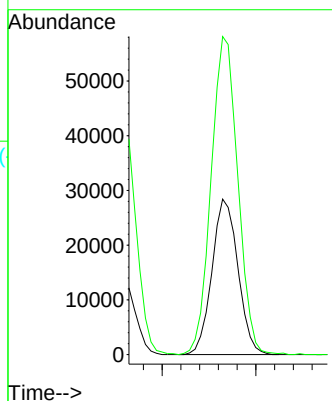
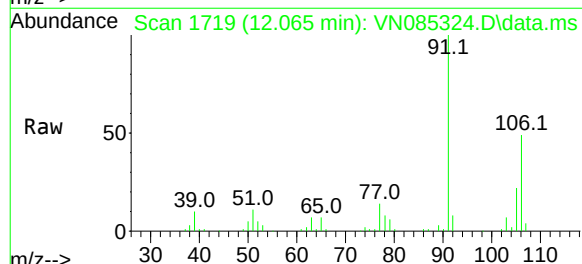
Acq: 27 Dec 2024 11:37

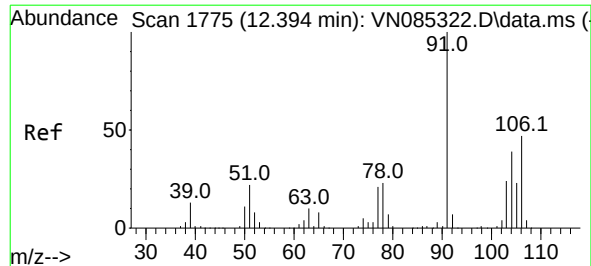
Tgt Ion:106 Resp: 54643

Ion Ratio Lower Upper

106 100

91 210.2 165.2 247.8





#69

o-Xylene

Concen: 9.605 ug/l

RT: 12.400 min Scan# 1775

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:106 Resp: 26323

Ion Ratio Lower Upper

106 100

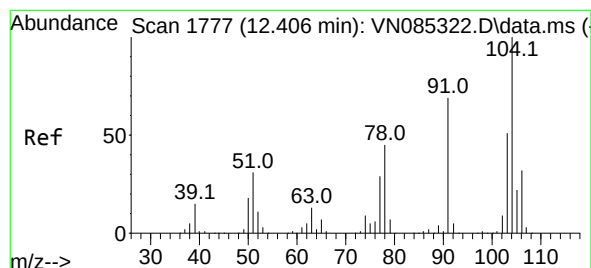
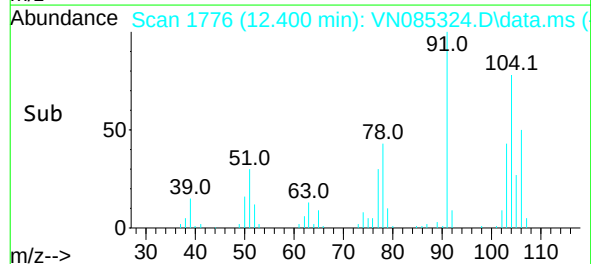
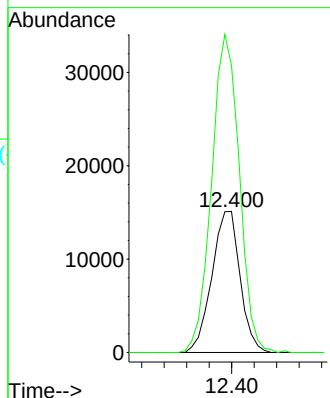
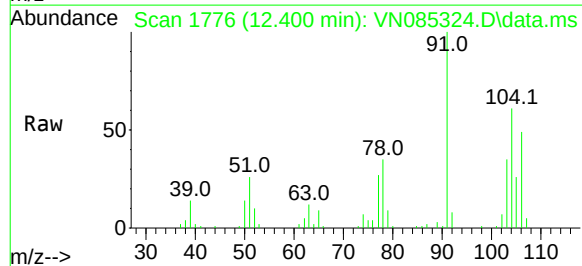
91 221.9 107.3 321.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#70

Styrene

Concen: 9.347 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

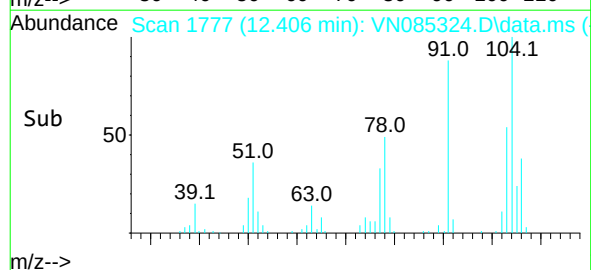
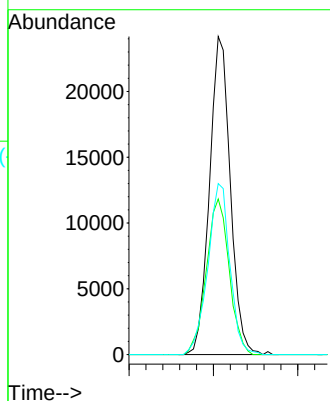
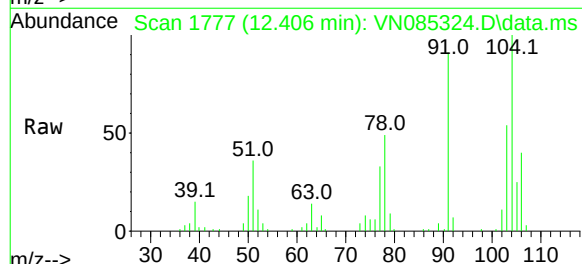
Tgt Ion:104 Resp: 41517

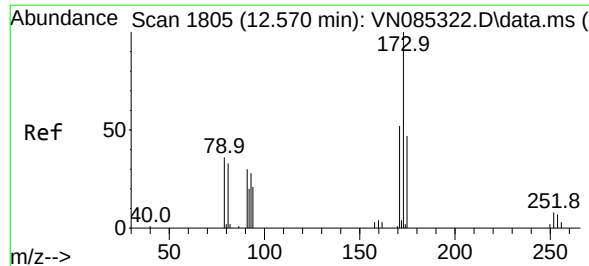
Ion Ratio Lower Upper

104 100

78 53.5 40.7 61.1

103 56.8 44.1 66.1





#71

Bromoform

Concen: 9.822 ug/l

RT: 12.570 min Scan# 1805

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

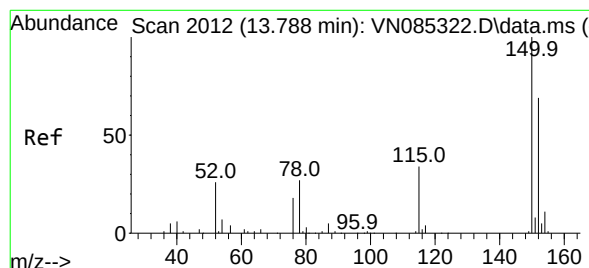
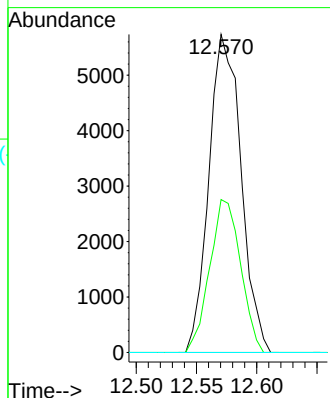
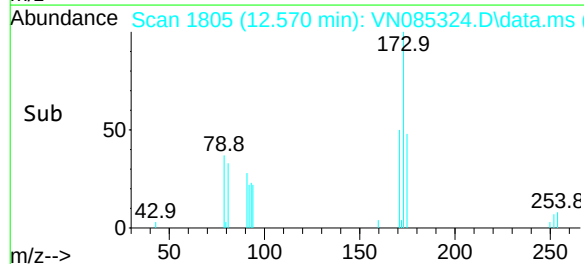
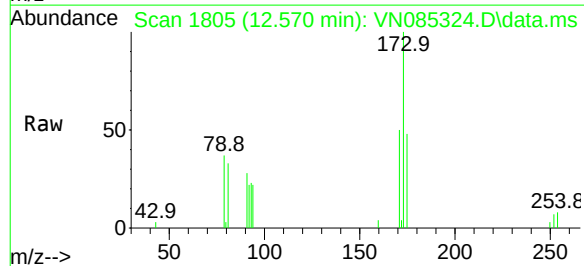
ClientSampleId :

VSTDIC010

Tgt Ion:	173	Resp:	10628
Ion Ratio	Lower	Upper	
173	100		
175	46.3	24.4	73.4
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

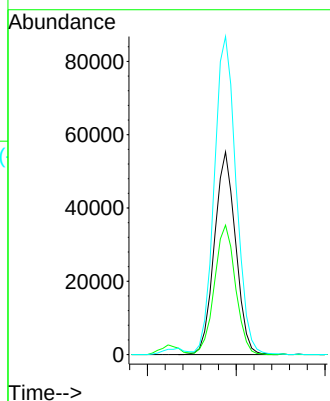
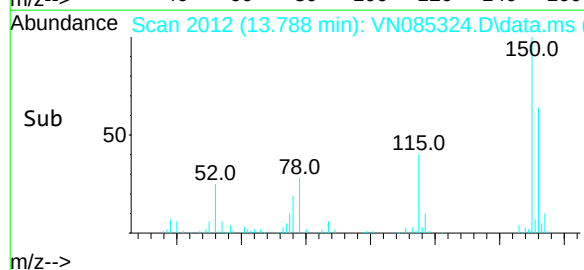
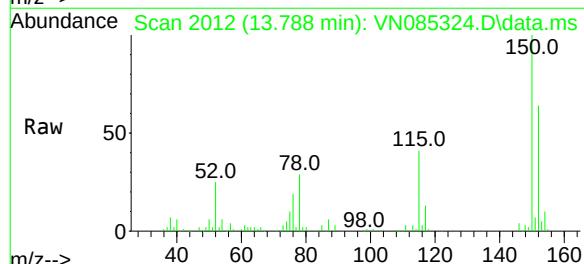
RT: 13.788 min Scan# 2012

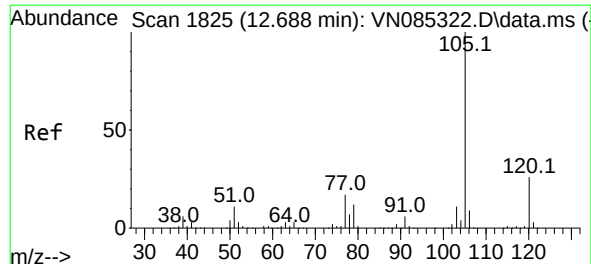
Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion:	152	Resp:	91601
Ion Ratio	Lower	Upper	
152	100		
115	63.4	30.4	91.3
150	161.6	0.0	345.0





#73

Isopropylbenzene

Concen: 10.000 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:105 Resp: 65872

Ion Ratio Lower Upper

105 100

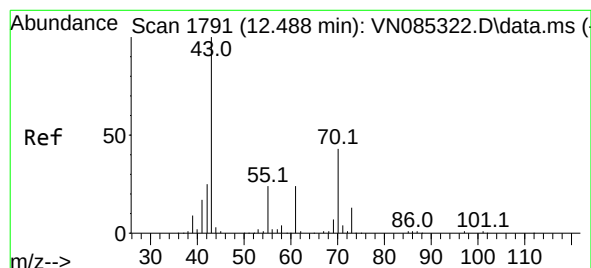
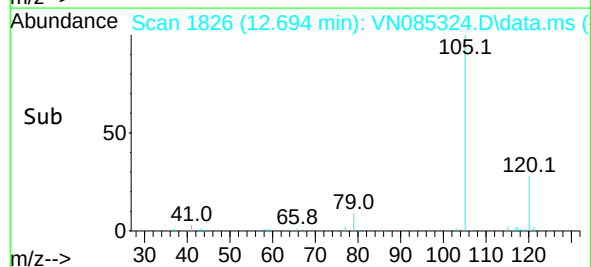
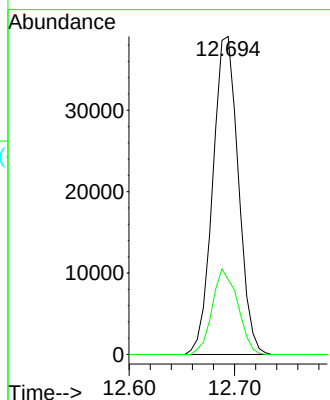
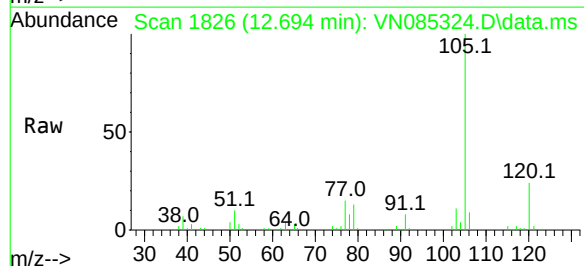
120 26.8 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#74

N-ethyl acetate

Concen: 9.650 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion: 43 Resp: 27209

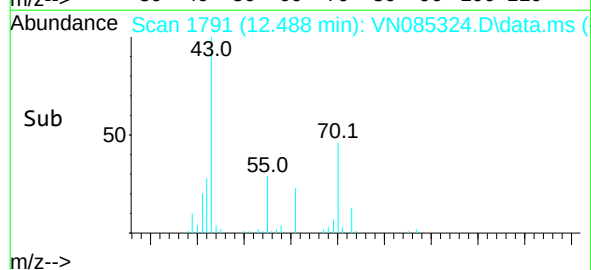
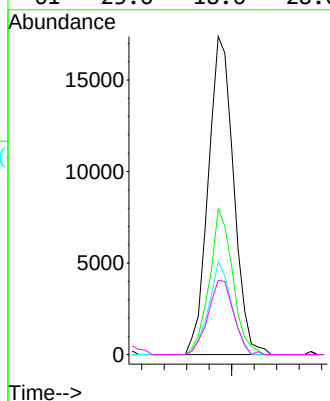
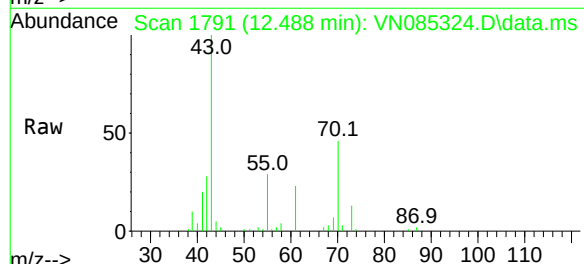
Ion Ratio Lower Upper

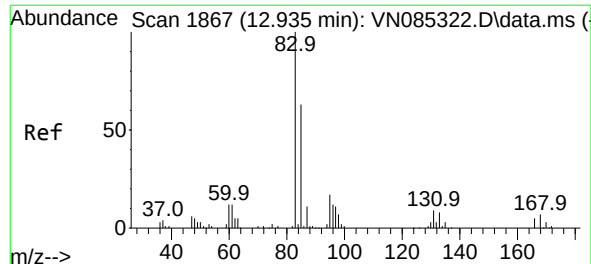
43 100

70 42.0 33.4 50.0

55 26.2 19.2 28.8

61 23.6 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 10.031 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

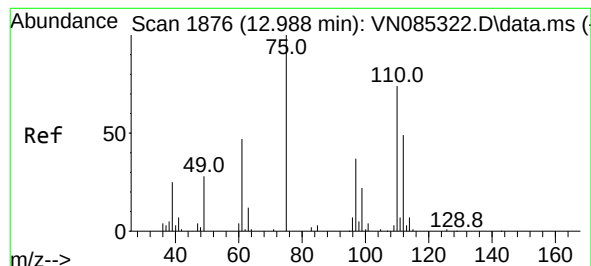
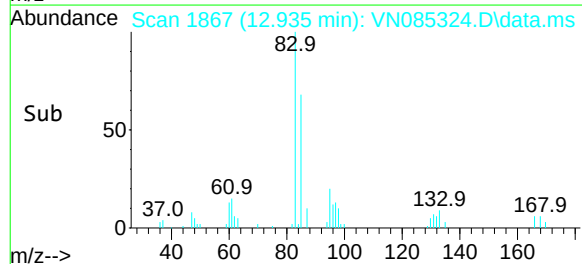
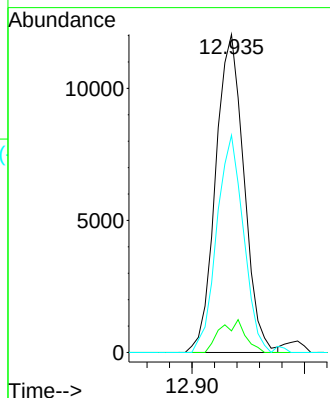
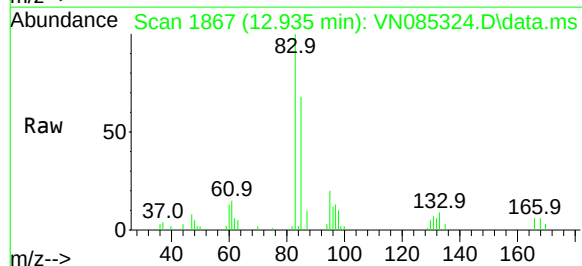
VSTDIC010

Tgt Ion:	83	Resp:	21045
Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.8	14.4
85	64.5	32.6	98.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#76

1,2,3-Trichloropropane

Concen: 9.959 ug/l m

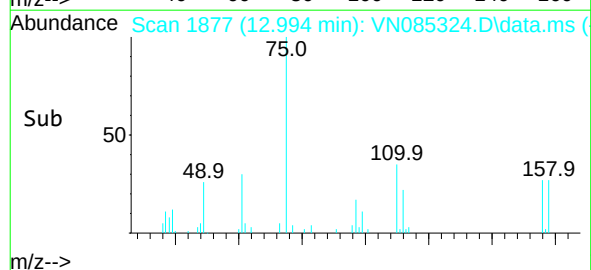
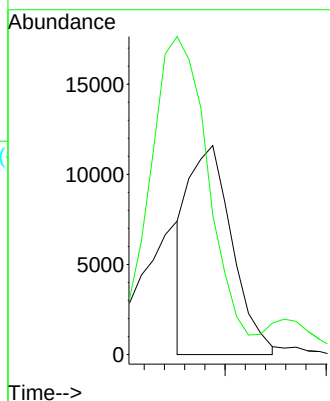
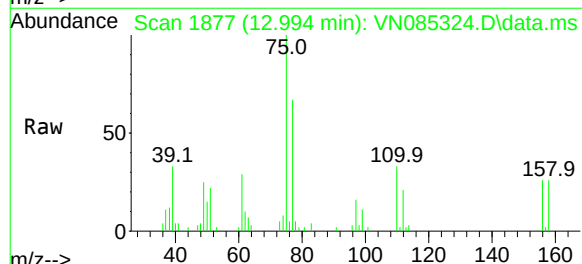
RT: 12.994 min Scan# 1877

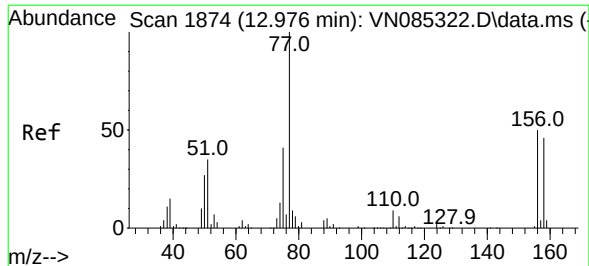
Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion:	75	Resp:	17525
Ion	Ratio	Lower	Upper
75	100		
77	205.6	98.1	294.3





#77

Bromobenzene

Concen: 9.995 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085324.D

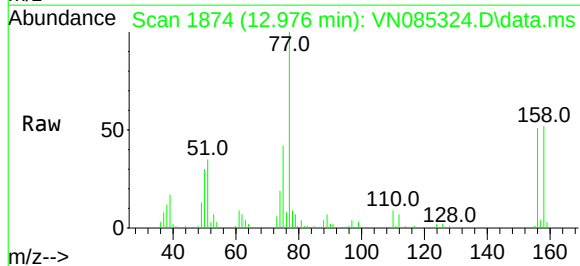
Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

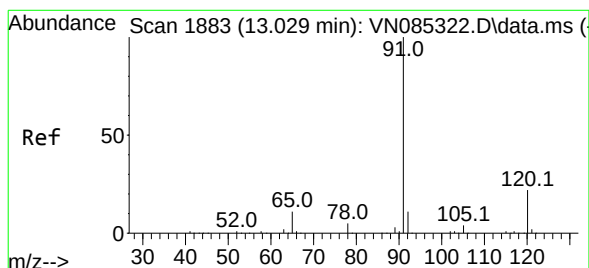
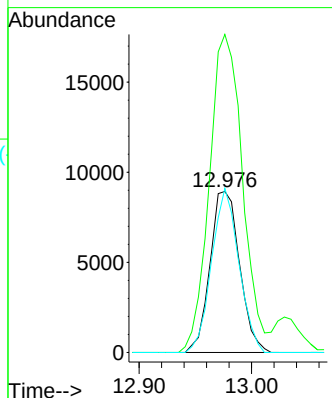
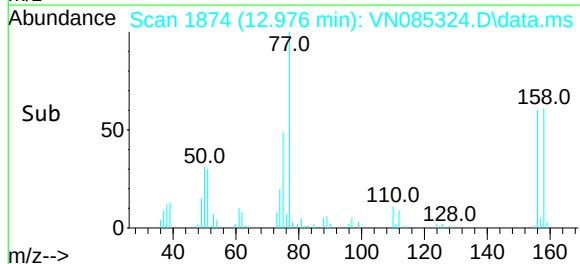
VSTDIC010



Tgt Ion:	156	Resp:	16311
Ion Ratio	Lower	Upper	
156	100		
77	220.9	114.0	342.0
158	93.8	47.6	142.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#78

n-propylbenzene

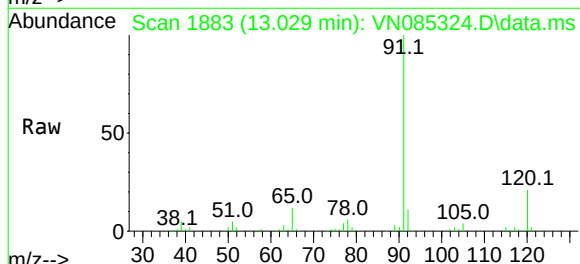
Concen: 10.161 ug/l

RT: 13.029 min Scan# 1883

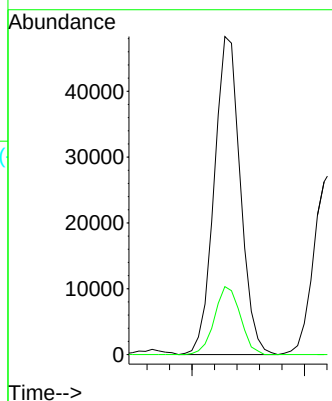
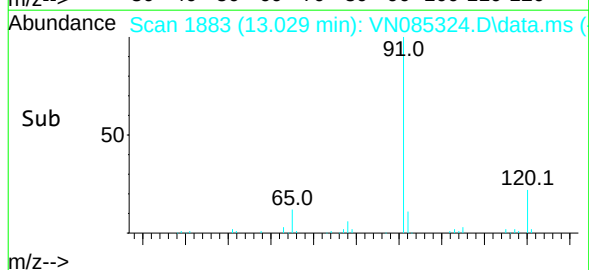
Delta R.T. 0.000 min

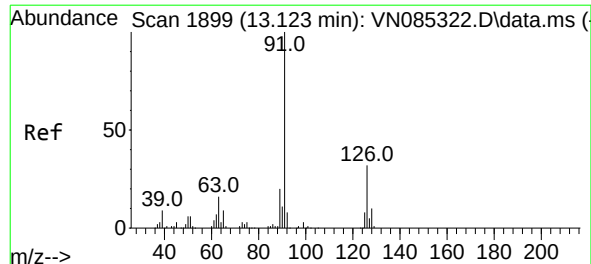
Lab File: VN085324.D

Acq: 27 Dec 2024 11:37



Tgt Ion:	91	Resp:	78022
Ion Ratio	Lower	Upper	
91	100		
120	21.1	10.9	32.9





#79

2-Chlorotoluene

Concen: 10.189 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion: 91 Resp: 49236

Ion Ratio Lower Upper

91 100

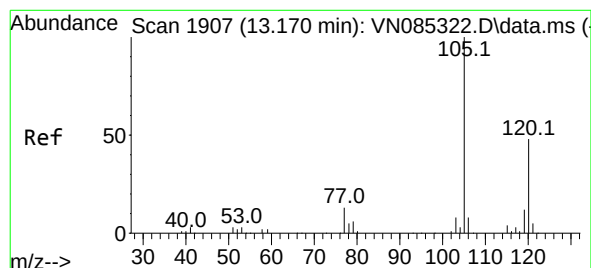
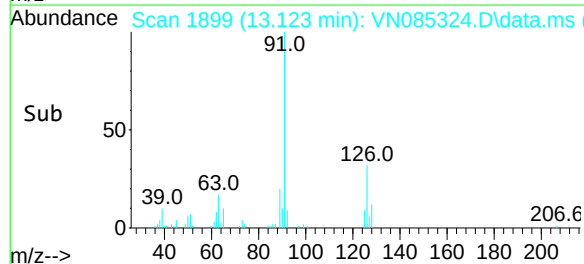
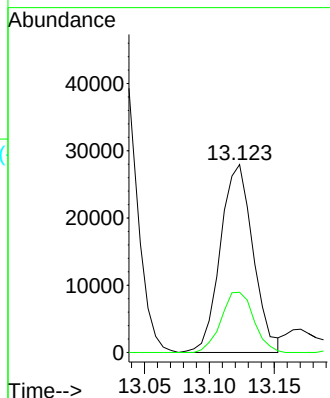
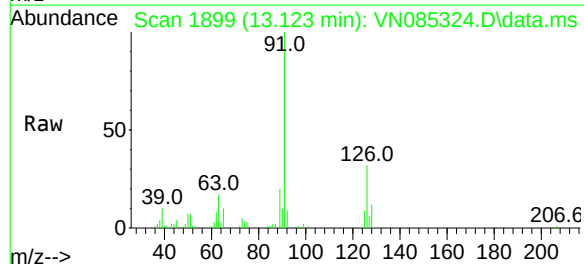
126 31.9 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#80

1,3,5-Trimethylbenzene

Concen: 10.171 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085324.D

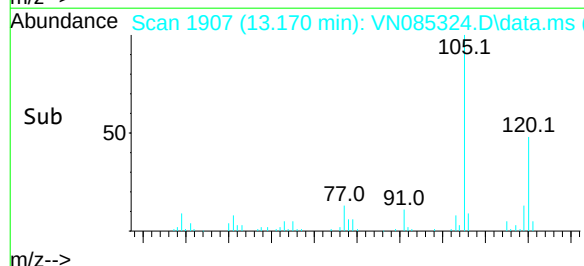
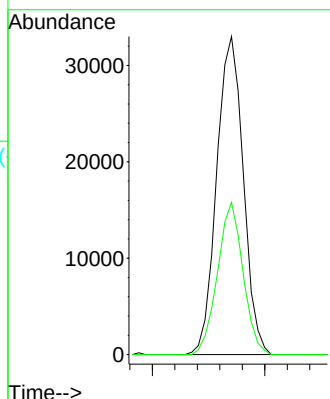
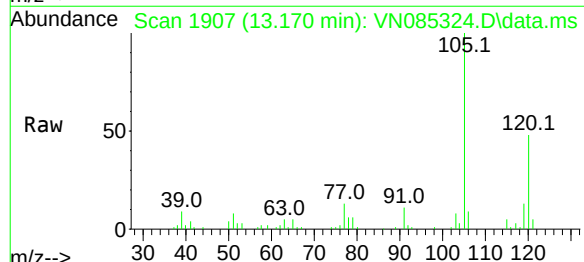
Acq: 27 Dec 2024 11:37

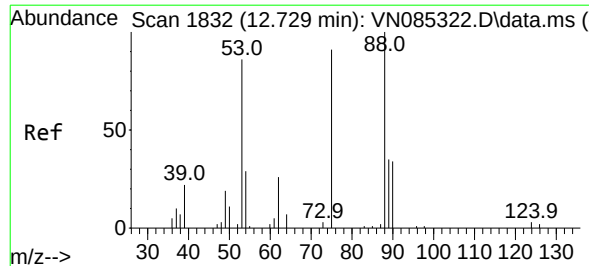
Tgt Ion:105 Resp: 54193

Ion Ratio Lower Upper

105 100

120 45.9 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 9.676 ug/l m

RT: 12.729 min Scan# 1832

Delta R.T. 0.000 min

Lab File: VN085324.D

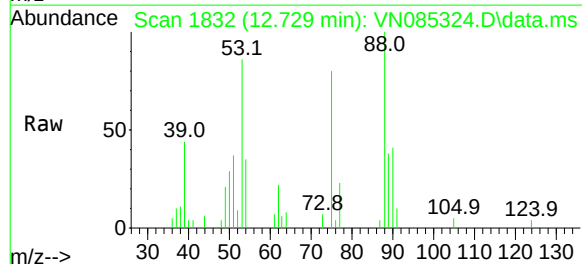
Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

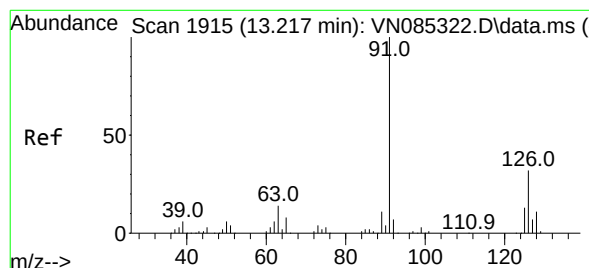
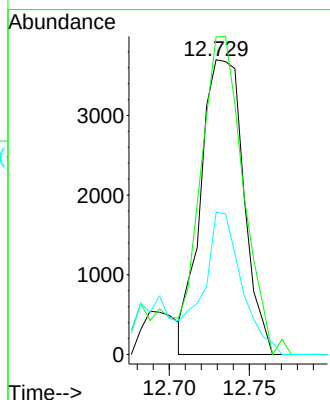
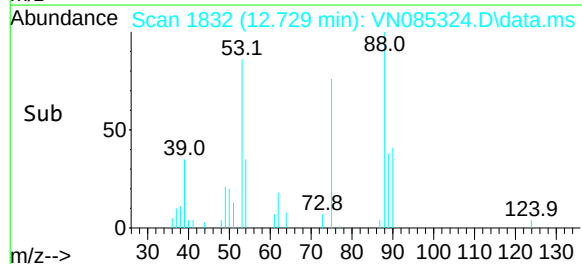
VSTDIC010



Tgt Ion:	75	Resp:	6879
Ion	Ratio	Lower	Upper
75	100		
53	106.6	80.0	120.0
89	43.2	35.8	53.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#82

4-Chlorotoluene

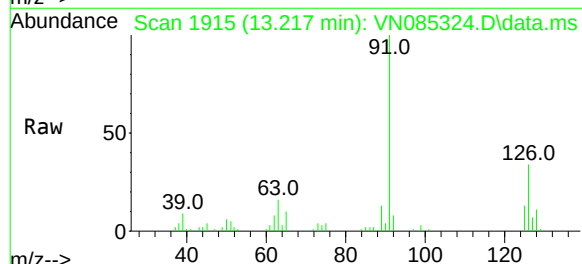
Concen: 10.017 ug/l

RT: 13.217 min Scan# 1915

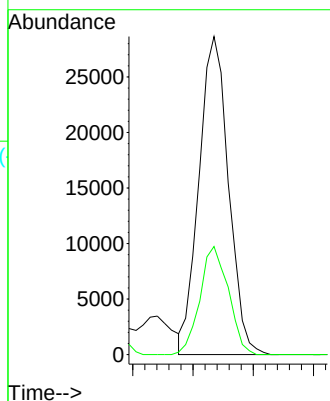
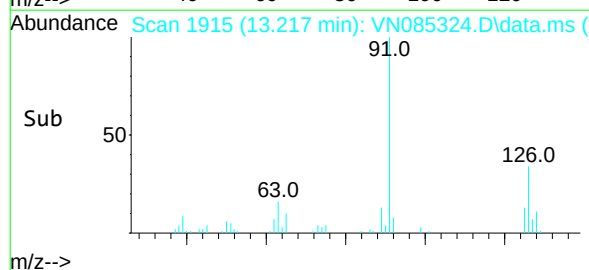
Delta R.T. 0.000 min

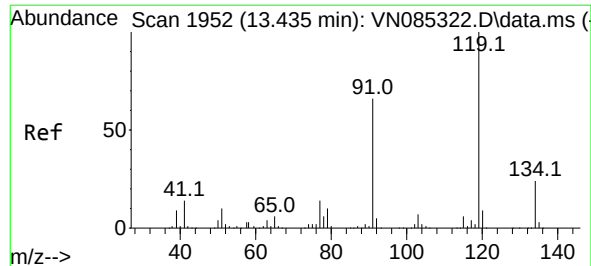
Lab File: VN085324.D

Acq: 27 Dec 2024 11:37



Tgt Ion:	91	Resp:	48752
Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.4	49.4





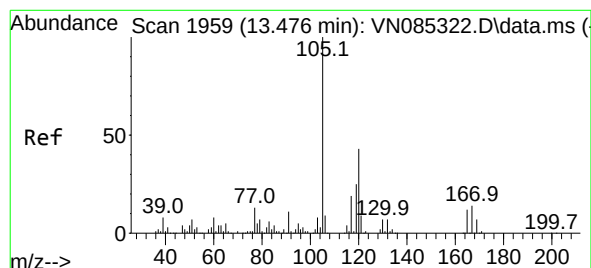
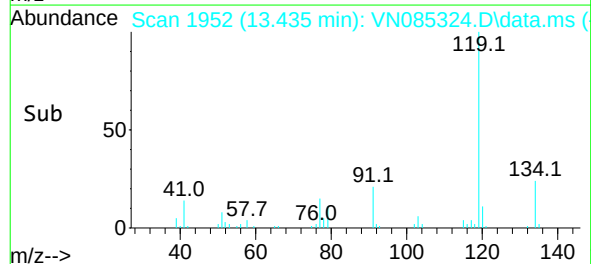
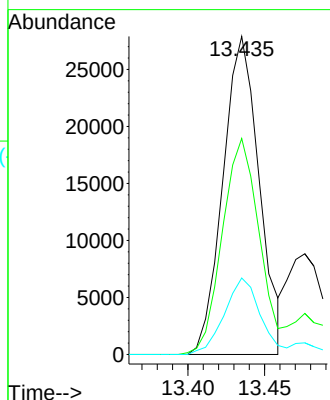
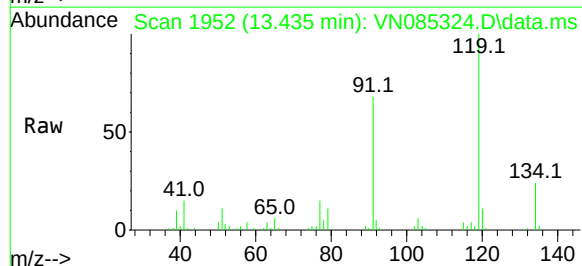
#83
tert-Butylbenzene
Concen: 9.955 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN085324.D
Acq: 27 Dec 2024 11:37

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Tgt Ion:119 Resp: 45946
Ion Ratio Lower Upper
119 100
91 70.4 33.6 100.8
134 23.8 13.3 39.8

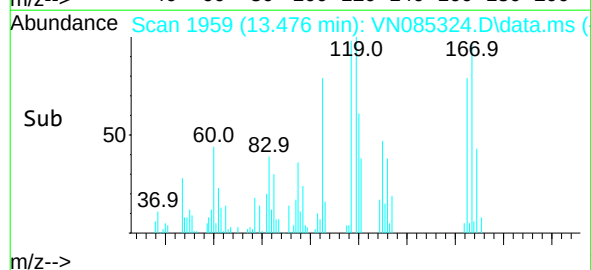
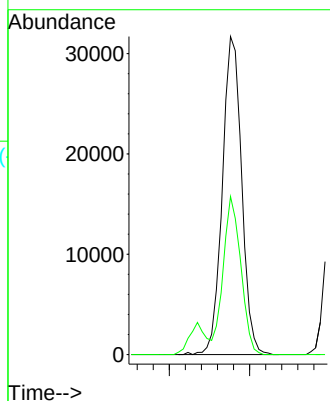
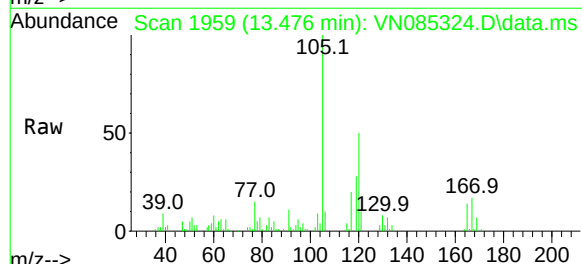
Manual Integrations
APPROVED

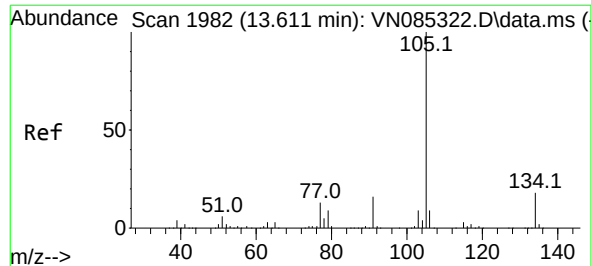
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#84
1,2,4-Trimethylbenzene
Concen: 9.996 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN085324.D
Acq: 27 Dec 2024 11:37

Tgt Ion:105 Resp: 53034
Ion Ratio Lower Upper
105 100
120 45.3 21.7 65.1





#85

sec-Butylbenzene

Concen: 10.118 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

Tgt Ion:105 Resp: 64824

Ion Ratio Lower Upper

105 100

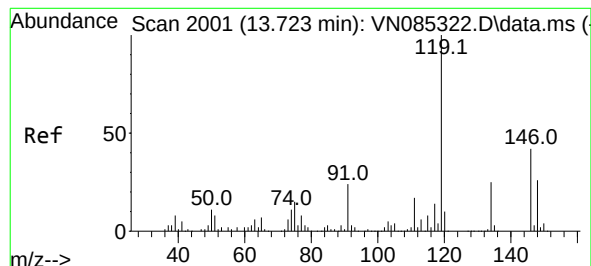
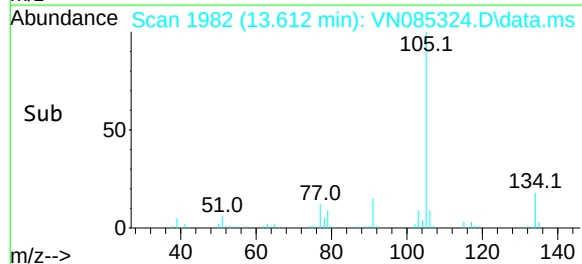
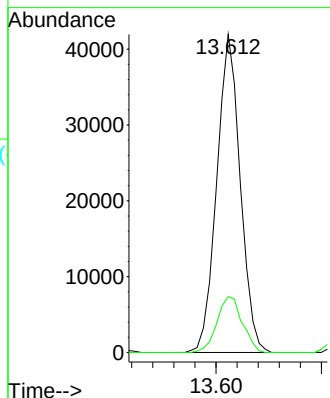
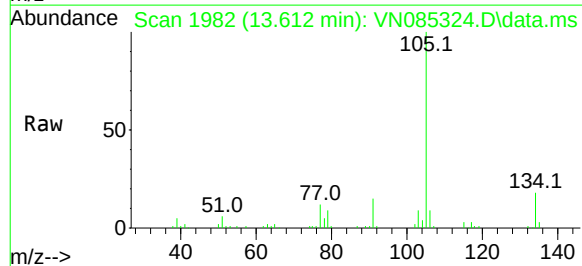
134 18.9 9.4 28.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#86

p-Isopropyltoluene

Concen: 9.726 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

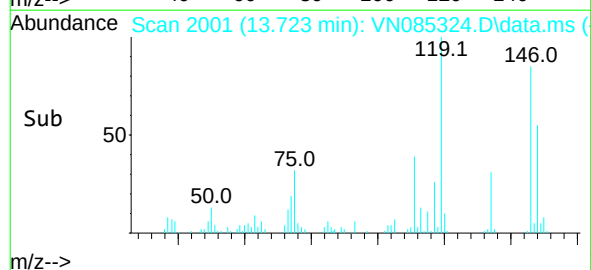
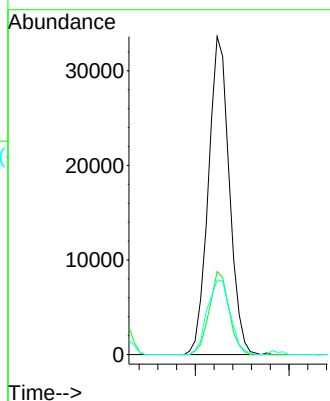
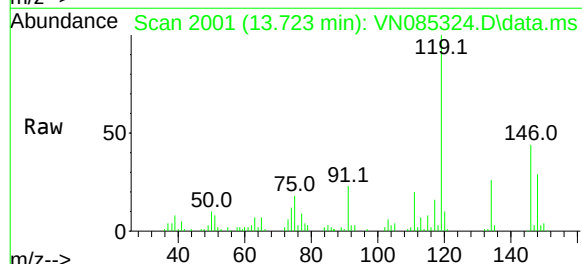
Tgt Ion:119 Resp: 52240

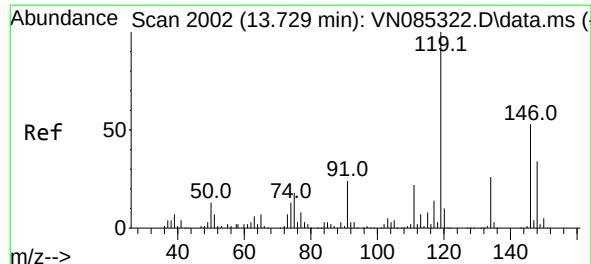
Ion Ratio Lower Upper

119 100

134 24.6 12.5 37.5

91 25.7 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 9.627 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

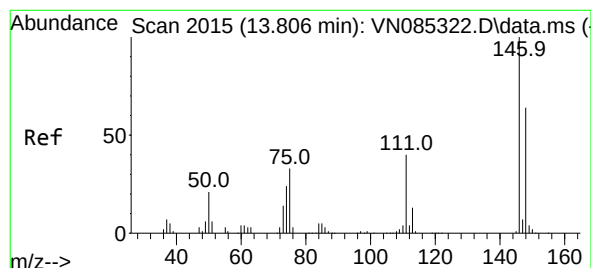
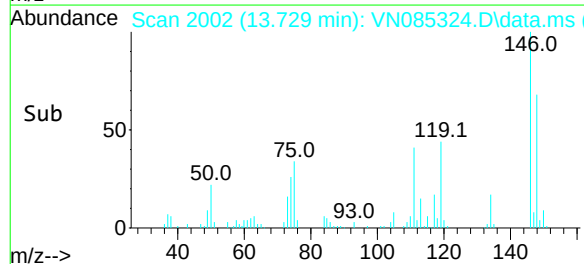
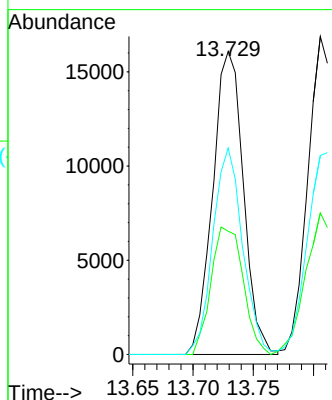
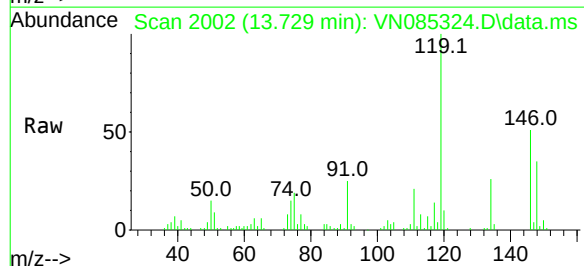
ClientSampleId :

VSTDICC010

Tgt Ion:	146	Resp:	28481
Ion Ratio	Lower	Upper	
146	100		
111	44.0	21.3	63.9
148	66.0	31.5	94.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#88

1,4-Dichlorobenzene

Concen: 9.656 ug/l

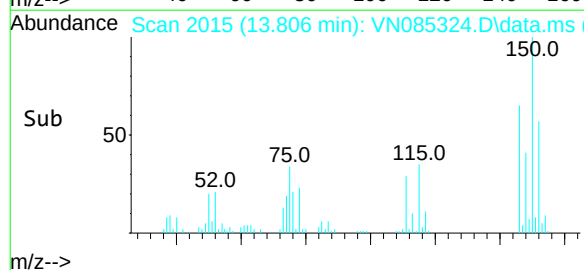
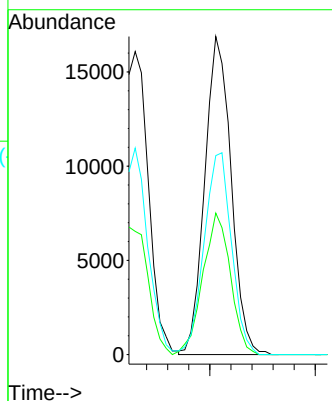
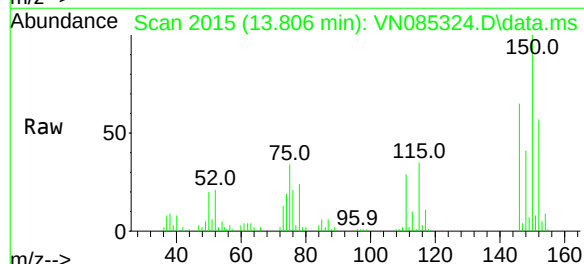
RT: 13.806 min Scan# 2015

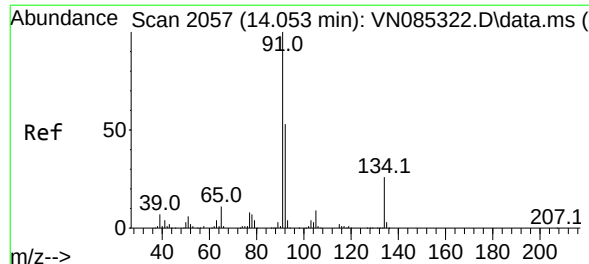
Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion:	146	Resp:	29343
Ion Ratio	Lower	Upper	
146	100		
111	46.4	20.8	62.5
148	66.1	31.7	95.1





#89

n-Butylbenzene

Concen: 9.440 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

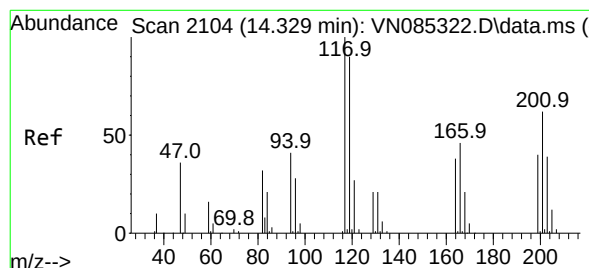
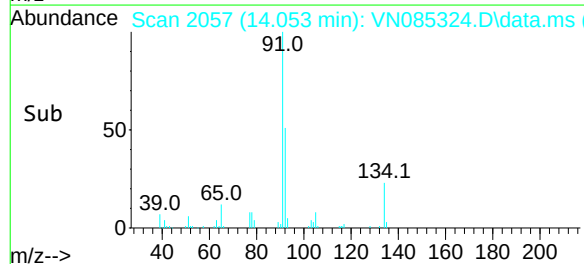
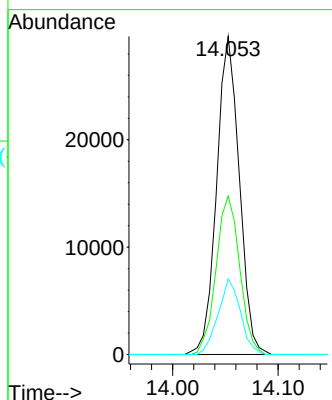
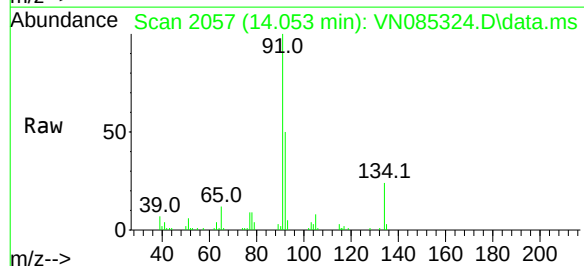
ClientSampleId :

VSTDICC010

Tgt Ion:	91	Resp:	44284
Ion	Ratio	Lower	Upper
91	100		
92	51.9	26.0	78.0
134	23.4	12.1	36.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#90

Hexachloroethane

Concen: 9.609 ug/l

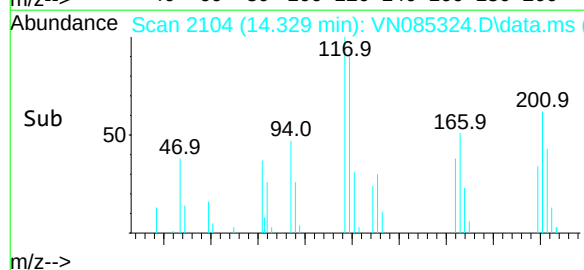
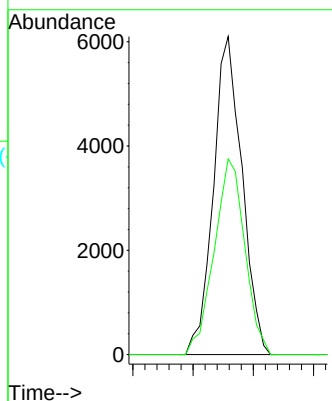
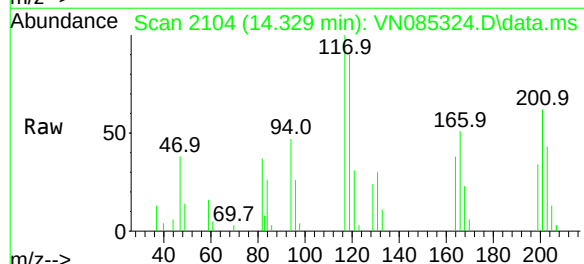
RT: 14.329 min Scan# 2104

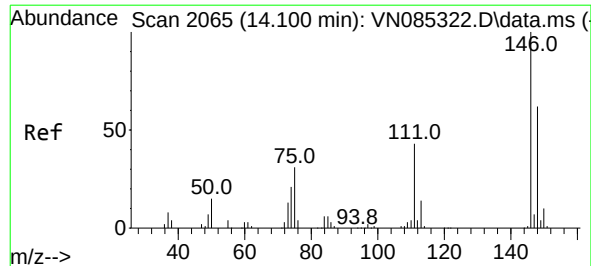
Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion:	117	Resp:	10091
Ion	Ratio	Lower	Upper
117	100		
201	65.6	30.7	92.1





#91

1,2-Dichlorobenzene

Concen: 10.348 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC010

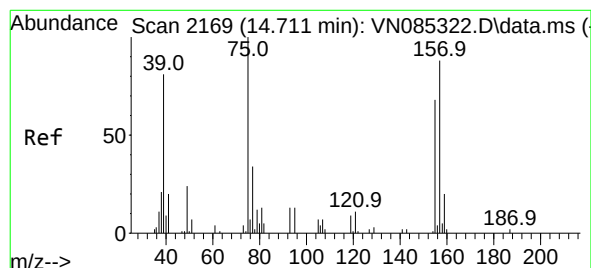
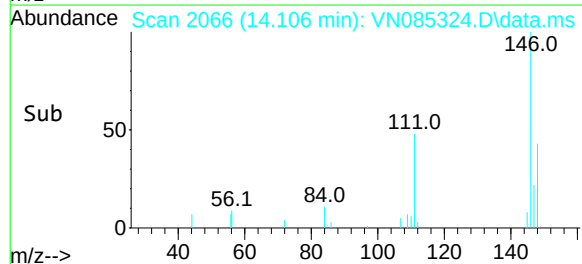
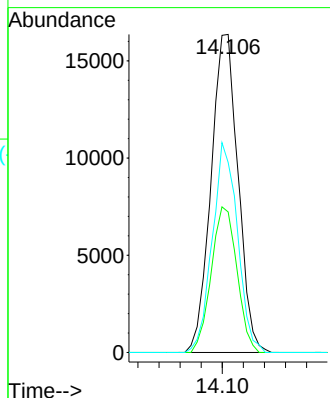
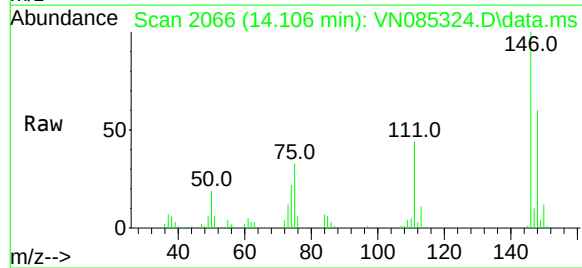
Tgt Ion:	146	Resp:	29163
Ion Ratio	Lower	Upper	
146	100		
111	43.4	21.8	65.3
148	61.5	31.4	94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 9.818 ug/l

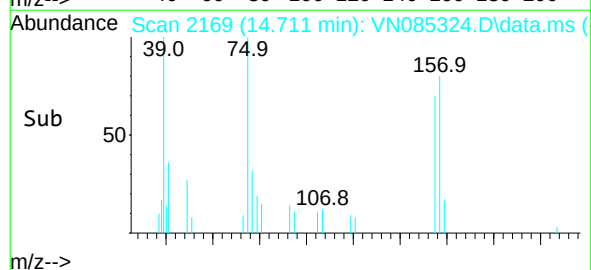
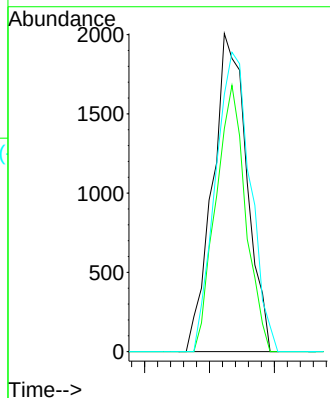
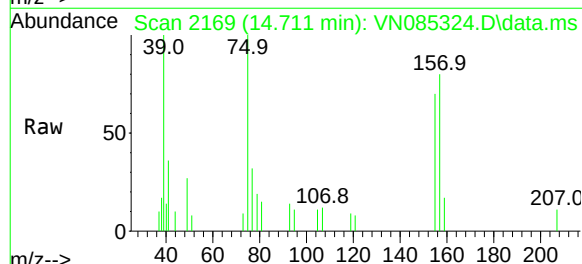
RT: 14.711 min Scan# 2169

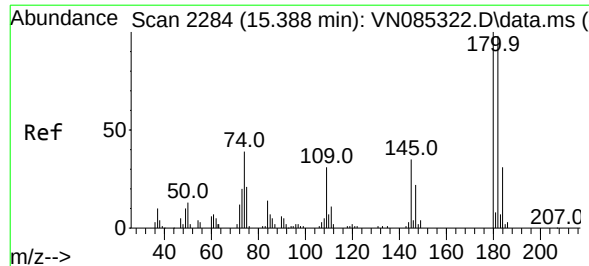
Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Tgt Ion:	75	Resp:	3666
Ion Ratio	Lower	Upper	
75	100		
155	73.4	35.6	106.9
157	96.6	47.0	141.0





#93

1,2,4-Trichlorobenzene

Concen: 9.538 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:180 Resp: 13416

Ion Ratio Lower Upper

180 100

182 97.7 47.2 141.6

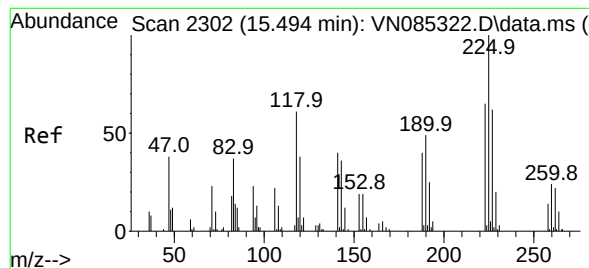
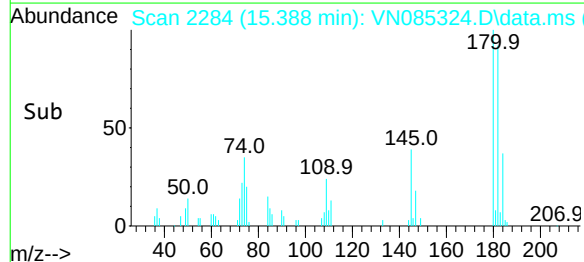
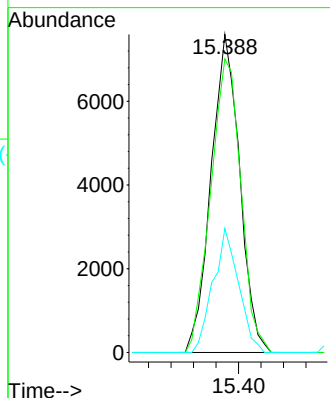
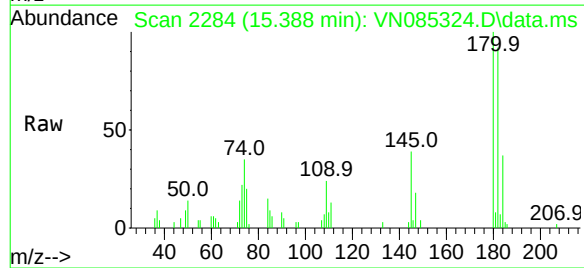
145 34.8 16.6 49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#94

Hexachlorobutadiene

Concen: 9.830 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

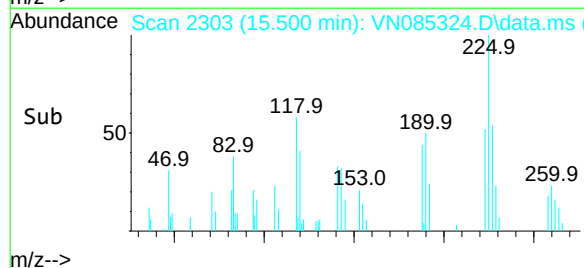
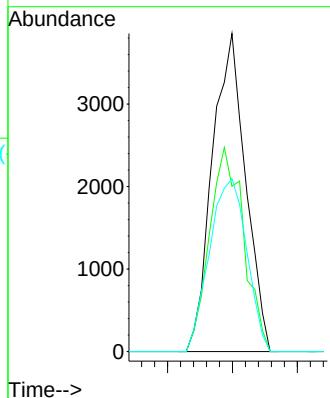
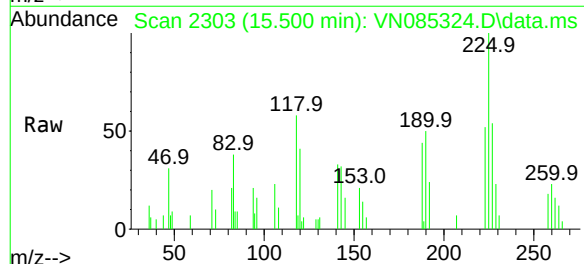
Tgt Ion:225 Resp: 6870

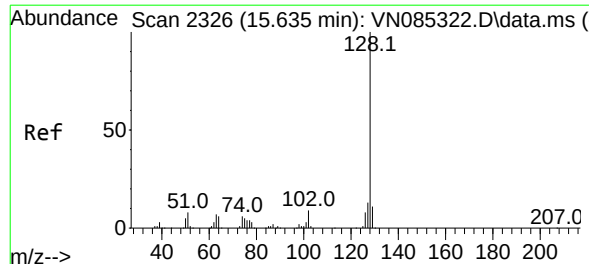
Ion Ratio Lower Upper

225 100

223 65.7 31.6 94.7

227 60.8 30.3 91.0





#95

Naphthalene

Concen: 9.374 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC010

Tgt Ion:128 Resp: 44712

Ion Ratio Lower Upper

128 100

127 14.5 10.6 16.0

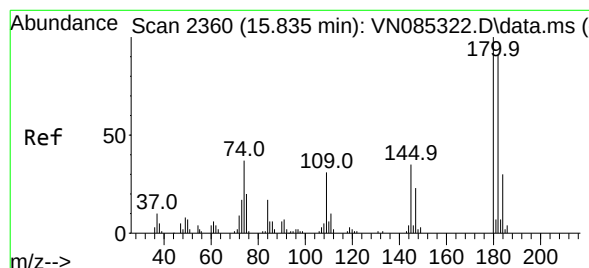
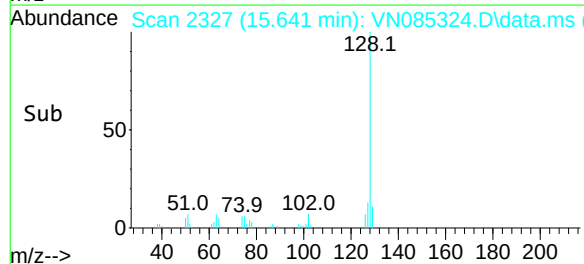
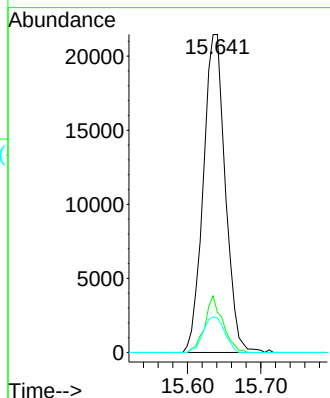
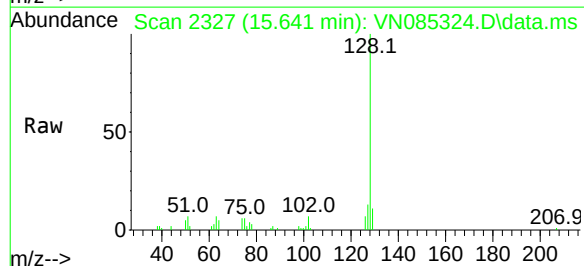
129 11.0 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#96

1,2,3-Trichlorobenzene

Concen: 10.012 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085324.D

Acq: 27 Dec 2024 11:37

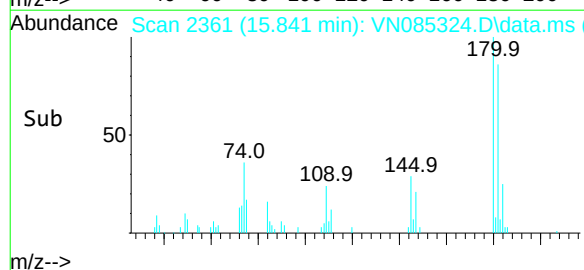
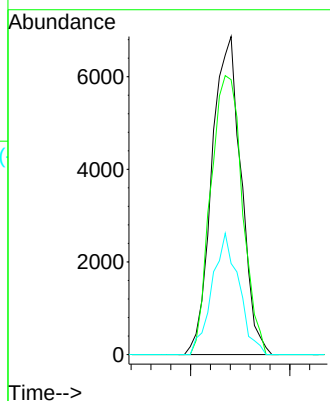
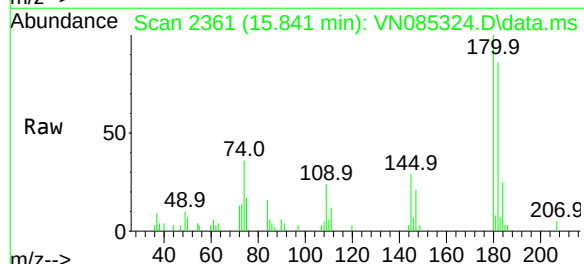
Tgt Ion:180 Resp: 14070

Ion Ratio Lower Upper

180 100

182 94.5 46.8 140.4

145 35.2 17.2 51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085325.D
 Acq On : 27 Dec 2024 12:01
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Dec 28 01:11:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	147779	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	263044	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	226122	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	96471	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	11186	5.307	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	10.620%#
35) Dibromofluoromethane	8.159	113	8683	5.291	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	10.580%#
50) Toluene-d8	10.565	98	32316	5.367	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	10.740%#
62) 4-Bromofluorobenzene	12.841	95	10066	5.033	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	10.060%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	9959	4.983	ug/l	87
3) Chloromethane	2.359	50	10992	4.893	ug/l	94
4) Vinyl Chloride	2.512	62	12286	5.172	ug/l	98
5) Bromomethane	2.954	94	8726	5.616	ug/l	96
6) Chloroethane	3.118	64	7888	5.236	ug/l	100
7) Trichlorofluoromethane	3.501	101	15924	5.099	ug/l	97
8) Diethyl Ether	3.953	74	5358	5.182	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.365	101	9363	5.270	ug/l #	48
10) Methyl Iodide	4.589	142	9845	4.788	ug/l #	93
11) Tert butyl alcohol	5.518	59	7128	27.007	ug/l #	84
12) 1,1-Dichloroethene	4.336	96	8833	5.379	ug/l	79
13) Acrolein	4.177	56	11310	27.485	ug/l	100
14) Allyl chloride	5.018	41	13153	5.004	ug/l	93
15) Acrylonitrile	5.724	53	20549	24.737	ug/l	98
16) Acetone	4.424	43	17276	24.926	ug/l	94
17) Carbon Disulfide	4.706	76	25152	5.035	ug/l	98
18) Methyl Acetate	5.030	43	10628	5.009	ug/l	98
19) Methyl tert-butyl Ether	5.795	73	26395	4.945	ug/l	97
20) Methylene Chloride	5.277	84	9500	5.096	ug/l	86
21) trans-1,2-Dichloroethene	5.777	96	8724	5.085	ug/l	87
22) Diisopropyl ether	6.665	45	29256	5.165	ug/l #	92
23) Vinyl Acetate	6.600	43	99465m	24.429	ug/l	
24) 1,1-Dichloroethane	6.571	63	17288	5.067	ug/l	94
25) 2-Butanone	7.483	43	27176	25.274	ug/l	99
26) 2,2-Dichloropropane	7.489	77	15617	5.225	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	9778	4.856	ug/l	92
28) Bromochloromethane	7.806	49	8779	5.537	ug/l #	98
29) Tetrahydrofuran	7.836	42	17009	24.557	ug/l	97
30) Chloroform	7.959	83	17135	4.909	ug/l	97
31) Cyclohexane	8.259	56	17671	5.672	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	15694	5.035	ug/l #	87
36) 1,1-Dichloropropene	8.365	75	12017	5.001	ug/l	98
37) Ethyl Acetate	7.559	43	11648	4.877	ug/l #	96
38) Carbon Tetrachloride	8.359	117	12952	4.945	ug/l	91
39) Methylcyclohexane	9.600	83	11831	4.746	ug/l #	92
40) Benzene	8.600	78	36472	5.021	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085325.D
 Acq On : 27 Dec 2024 12:01
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:11:41 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M

Quant Title : SW846 8260

QLast Update : Sat Dec 28 01:10:11 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	6242	5.104	ug/l	99
42) 1,2-Dichloroethane	8.665	62	12978	4.983	ug/l	97
43) Isopropyl Acetate	8.688	43	18930	4.814	ug/l	99
44) Trichloroethene	9.347	130	8533	4.961	ug/l	93
45) 1,2-Dichloropropane	9.618	63	9143	4.958	ug/l	99
46) Dibromomethane	9.706	93	6573	5.125	ug/l	98
47) Bromodichloromethane	9.888	83	13450	5.046	ug/l	99
48) Methyl methacrylate	9.682	41	8311	4.871	ug/l	98
49) 1,4-Dioxane	9.694	88	2520	97.886	ug/l #	87
51) 4-Methyl-2-Pentanone	10.441	43	54831	24.812	ug/l	99
52) Toluene	10.624	92	21799	5.040	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	13088	4.993	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	13900	4.904	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	8634	5.287	ug/l	91
56) Ethyl methacrylate	10.871	69	10291	4.327	ug/l	98
57) 1,3-Dichloropropane	11.159	76	14548	5.076	ug/l	96
58) 2-Chloroethyl Vinyl ether	10.153	63	28647	24.895	ug/l	98
59) 2-Hexanone	11.188	43	36958	24.105	ug/l	99
60) Dibromochloromethane	11.359	129	9180	4.991	ug/l	96
61) 1,2-Dibromoethane	11.465	107	8013	4.960	ug/l	99
64) Tetrachloroethene	11.106	164	7300	5.095	ug/l	84
65) Chlorobenzene	11.888	112	24138	4.940	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	7880	4.805	ug/l	94
67) Ethyl Benzene	11.959	91	39102	4.812	ug/l	95
68) m/p-Xylenes	12.065	106	29104	9.786	ug/l	96
69) o-Xylene	12.394	106	13620	4.734	ug/l	98
70) Styrene	12.406	104	21804	4.676	ug/l	99
71) Bromoform	12.571	173	5494	4.837	ug/l #	99
73) Isopropylbenzene	12.694	105	35544	5.124	ug/l	97
74) N-amyl acetate	12.494	43	13811	4.651	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	11349	5.137	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	9049m	4.883	ug/l	
77) Bromobenzene	12.976	156	8544	4.971	ug/l	98
78) n-propylbenzene	13.029	91	38185	4.722	ug/l	99
79) 2-Chlorotoluene	13.123	91	26279	5.164	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	27787	4.952	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.729	75	3288	4.391	ug/l	95
82) 4-Chlorotoluene	13.218	91	25709	5.016	ug/l	97
83) tert-Butylbenzene	13.435	119	24152	4.969	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	26238	4.696	ug/l	97
85) sec-Butylbenzene	13.612	105	33215	4.923	ug/l	97
86) p-Isopropyltoluene	13.723	119	25238	4.594	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	15966	5.124	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	16072	5.022	ug/l	91
89) n-Butylbenzene	14.053	91	22807	4.616	ug/l	99
90) Hexachloroethane	14.329	117	5398	4.881	ug/l	95
91) 1,2-Dichlorobenzene	14.100	146	14881	5.014	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.712	75	2047	5.206	ug/l	94
93) 1,2,4-Trichlorobenzene	15.382	180	7250	4.894	ug/l	96
94) Hexachlorobutadiene	15.500	225	3976	5.402	ug/l	96
95) Naphthalene	15.635	128	22967	4.572	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	7594	5.131	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085325.D
Acq On : 27 Dec 2024 12:01
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:11:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration

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

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

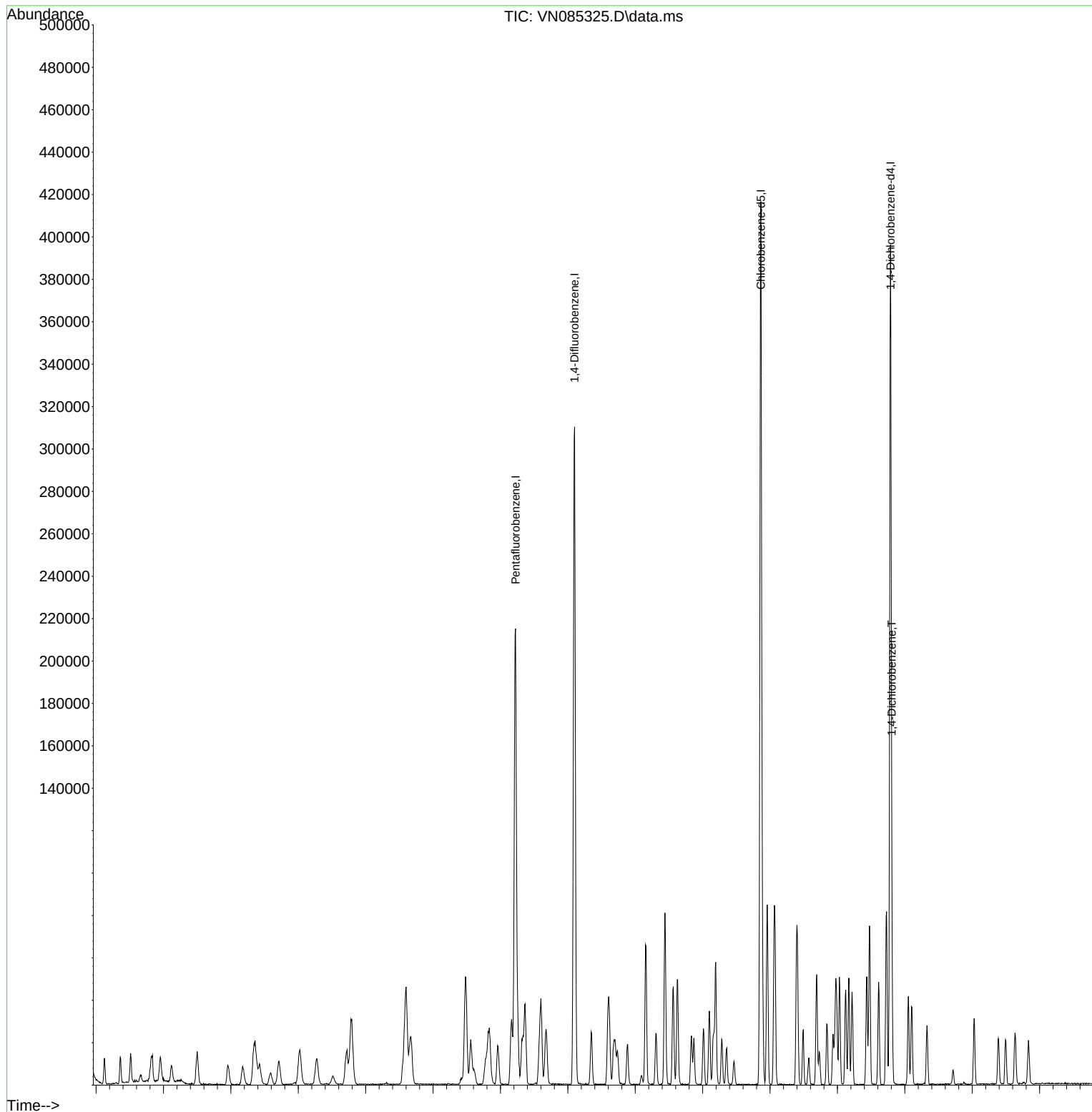
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Data File : VN085325.D
Acq On : 27 Dec 2024 12:01
Operator : JC\MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

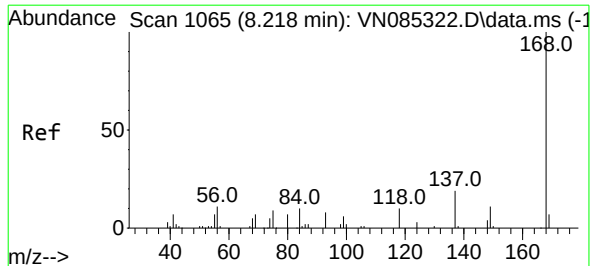
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024

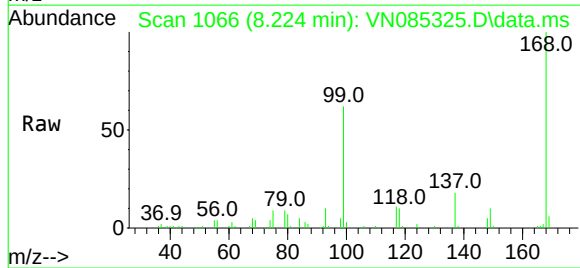
Quant Time: Dec 28 01:11:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085325.D
Acq: 27 Dec 2024 12:01

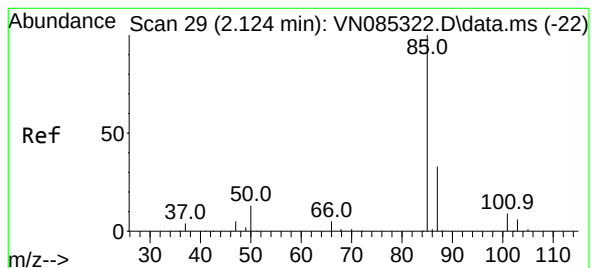
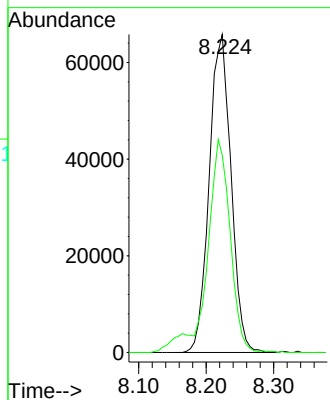
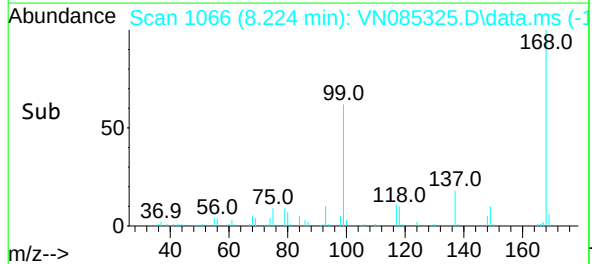
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:168 Resp: 147779
Ion Ratio Lower Upper
168 100
99 62.1 51.0 76.4

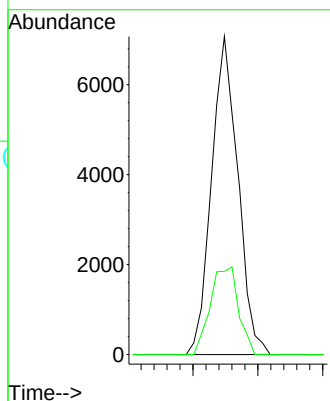
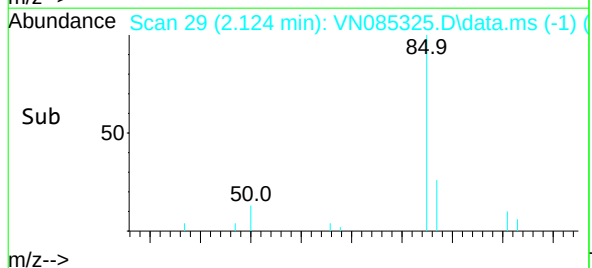
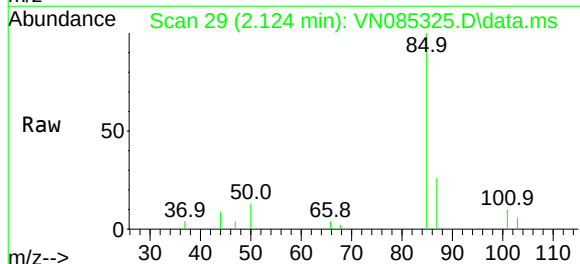
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

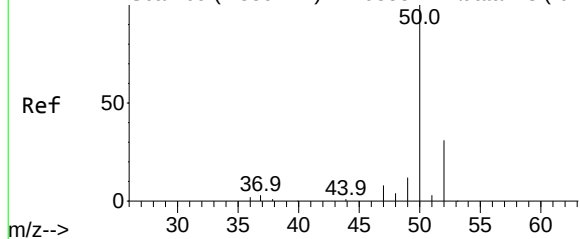


#2
Dichlorodifluoromethane
Concen: 4.983 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085325.D
Acq: 27 Dec 2024 12:01

Tgt Ion: 85 Resp: 9959
Ion Ratio Lower Upper
85 100
87 26.2 16.8 50.3



Abundance Scan 69 (2.359 min): VN085322.D\data.ms (-62)



#3

Chloromethane

Concen: 4.893 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

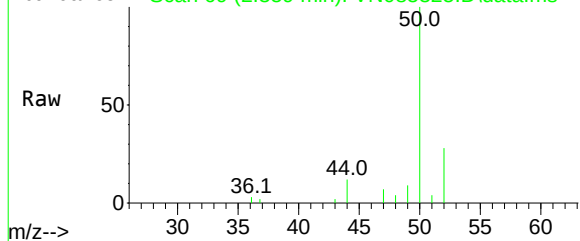
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Abundance Scan 69 (2.359 min): VN085325.D\data.ms



Tgt Ion: 50 Resp: 10992

Ion Ratio Lower Upper

50 100

52 27.9 25.1 37.7

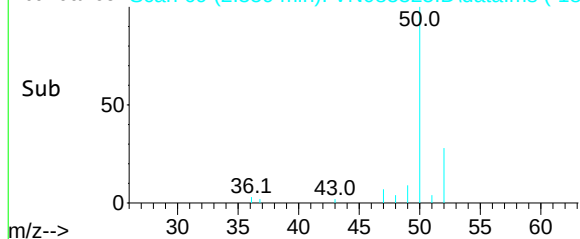
Manual Integrations

APPROVED

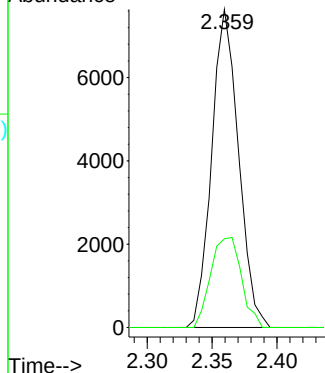
Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024

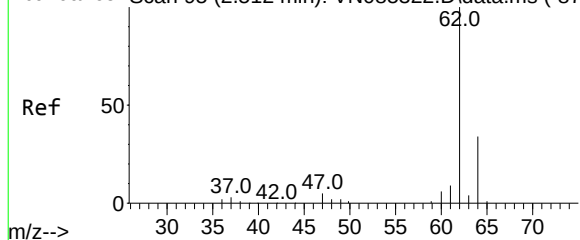
Abundance Scan 69 (2.359 min): VN085325.D\data.ms (-18)



Abundance



Abundance Scan 95 (2.512 min): VN085322.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 5.172 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

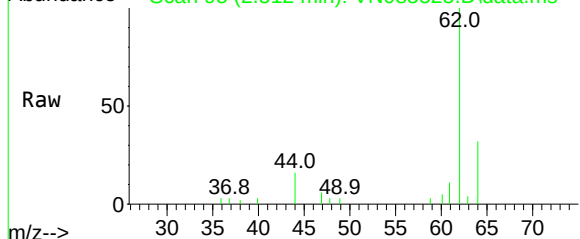
Tgt Ion: 62 Resp: 12286

Ion Ratio Lower Upper

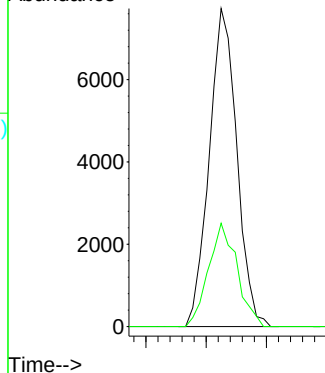
62 100

64 32.5 27.0 40.6

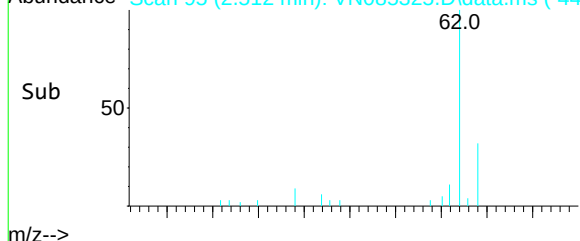
Abundance Scan 95 (2.512 min): VN085325.D\data.ms

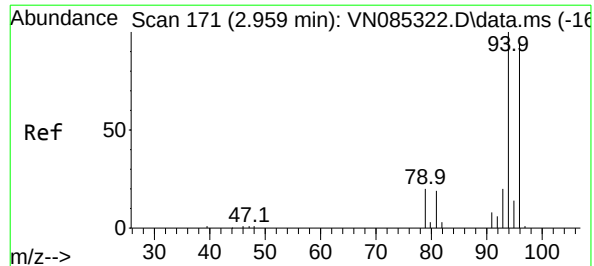


Abundance



Abundance Scan 95 (2.512 min): VN085325.D\data.ms (-44)





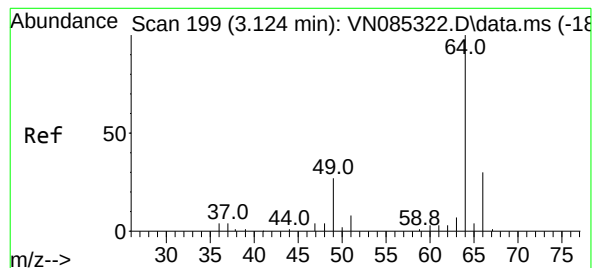
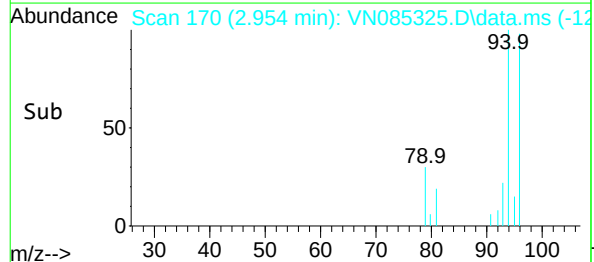
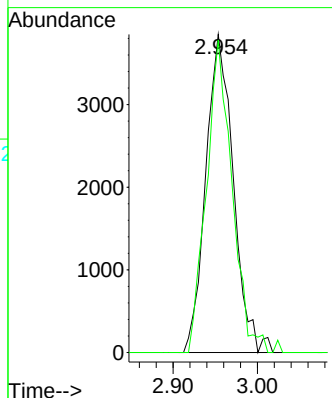
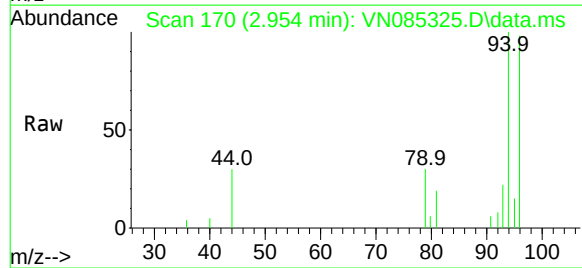
#5
Bromomethane
Concen: 5.616 ug/l
RT: 2.954 min Scan# 171
Delta R.T. -0.006 min
Lab File: VN085325.D
Acq: 27 Dec 2024 12:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 8726
Ion Ratio Lower Upper
94 100
96 98.3 75.2 112.8

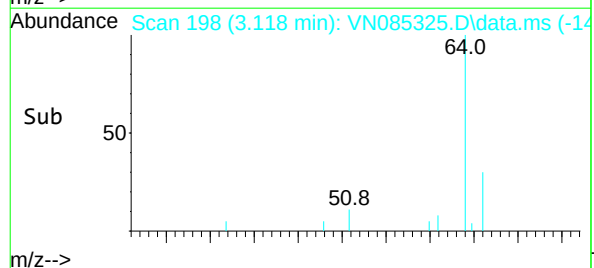
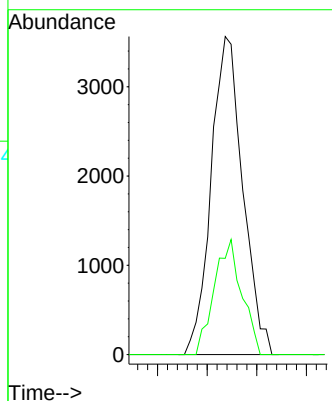
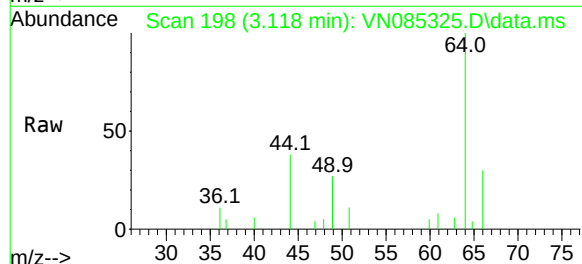
Manual Integrations
APPROVED

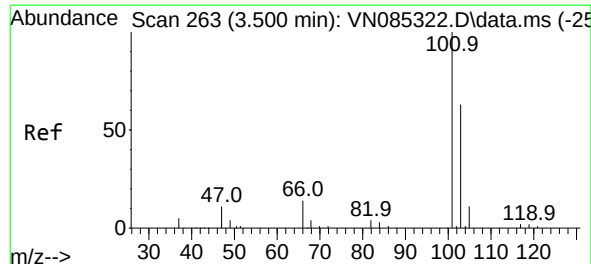
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#6
Chloroethane
Concen: 5.236 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085325.D
Acq: 27 Dec 2024 12:01

Tgt Ion: 64 Resp: 7888
Ion Ratio Lower Upper
64 100
66 30.3 24.1 36.1





#7

Trichlorofluoromethane

Concen: 5.099 ug/l

RT: 3.501 min Scan# 263

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:101 Resp: 15924

Ion Ratio Lower Upper

101 100

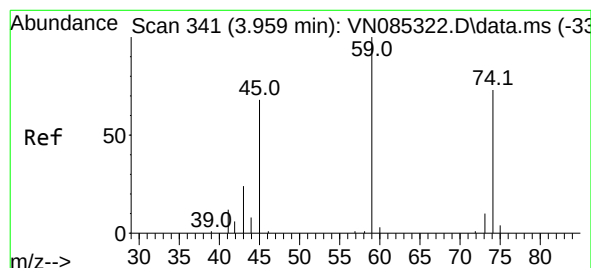
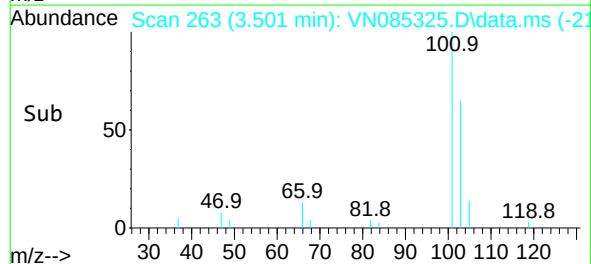
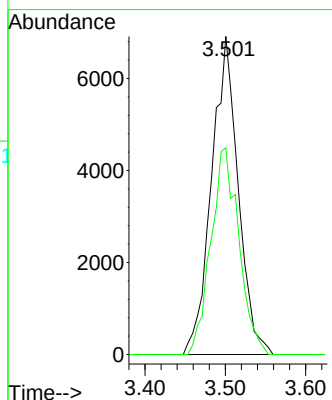
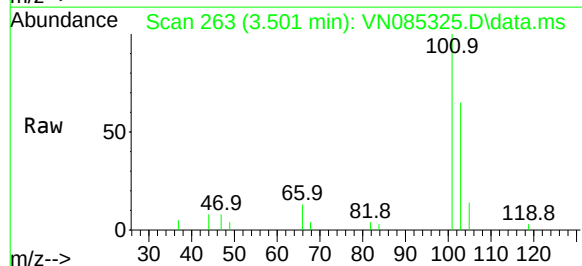
103 65.0 50.3 75.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#8

Diethyl Ether

Concen: 5.182 ug/l

RT: 3.953 min Scan# 340

Delta R.T. -0.006 min

Lab File: VN085325.D

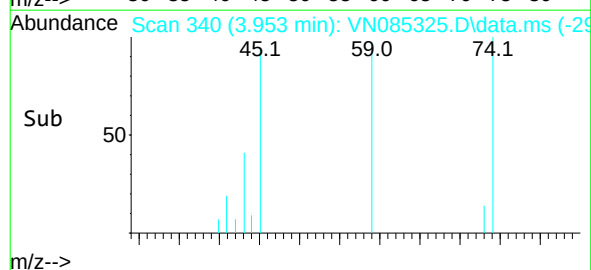
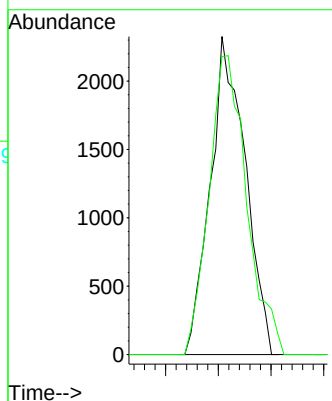
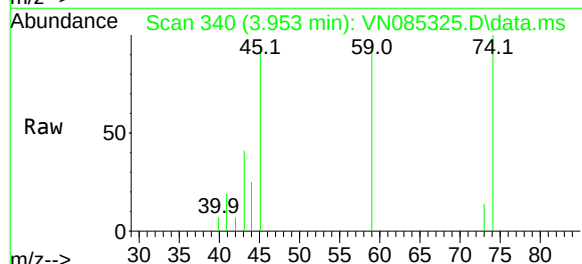
Acq: 27 Dec 2024 12:01

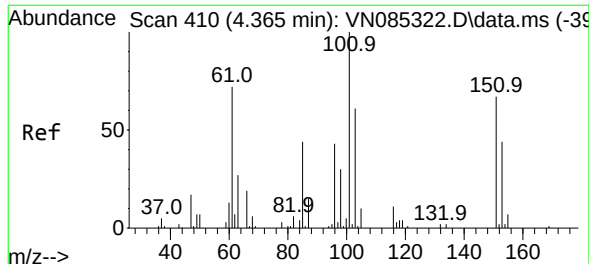
Tgt Ion: 74 Resp: 5358

Ion Ratio Lower Upper

74 100

45 101.4 47.5 142.6





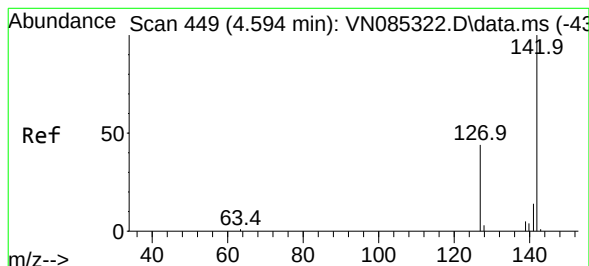
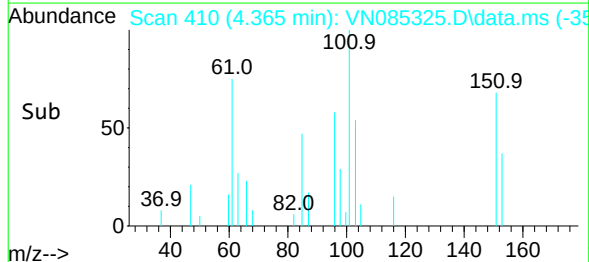
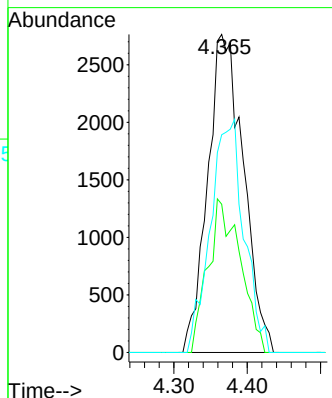
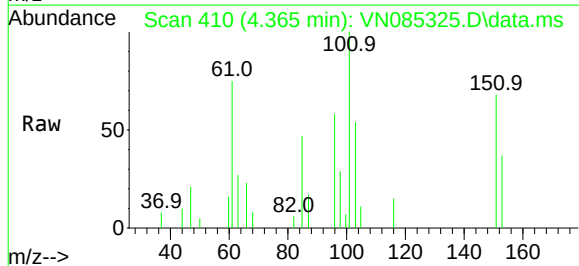
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.270 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.000 min
Lab File: VN085325.D
Acq: 27 Dec 2024 12:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	101	Resp	9363
Ion Ratio	Lower	Upper	
101	100		
85	43.9	36.2	54.4
151	0.0	55.8	83.6#

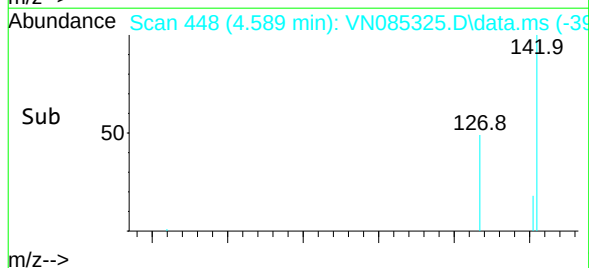
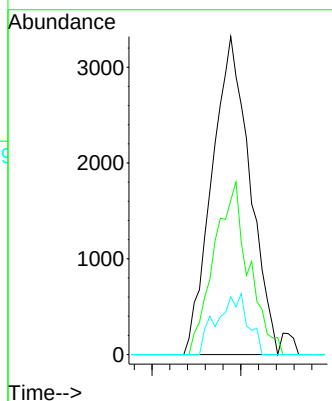
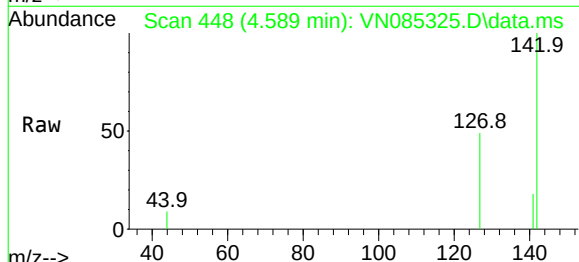
Manual Integrations
APPROVED

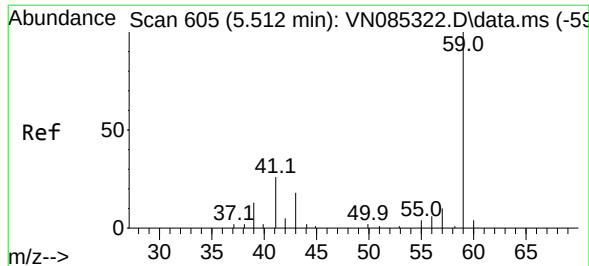
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#10
Methyl Iodide
Concen: 4.788 ug/l
RT: 4.589 min Scan# 448
Delta R.T. -0.006 min
Lab File: VN085325.D
Acq: 27 Dec 2024 12:01

Tgt Ion	142	Resp	9845
Ion Ratio	Lower	Upper	
142	100		
127	48.5	35.3	52.9
141	18.2	11.5	17.3#





#11

Tert butyl alcohol

Concen: 27.007 ug/l

RT: 5.518 min Scan# 605

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 7128

Ion Ratio Lower Upper

59 100

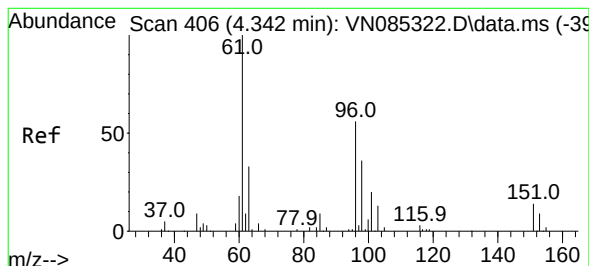
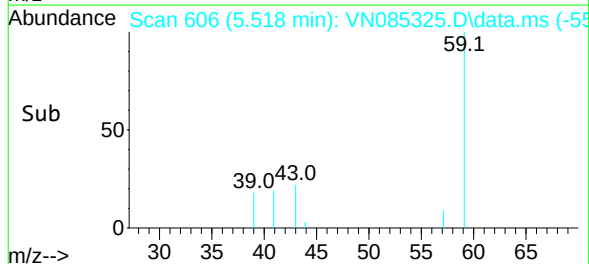
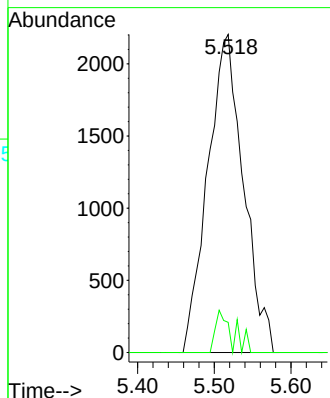
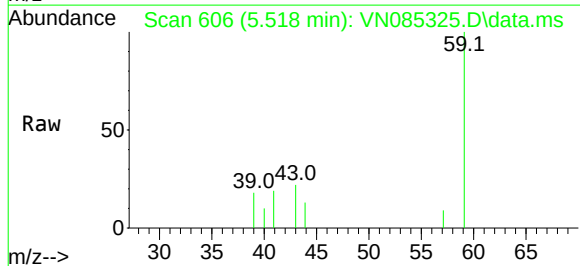
57 4.3 8.1 12.1#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#12

1,1-Dichloroethene

Concen: 5.379 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

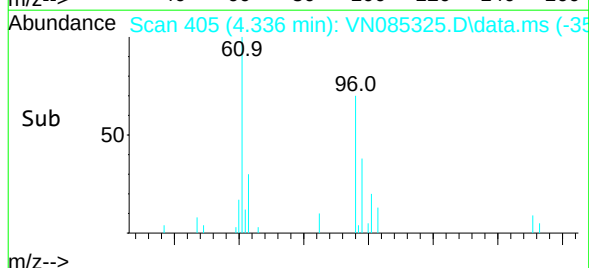
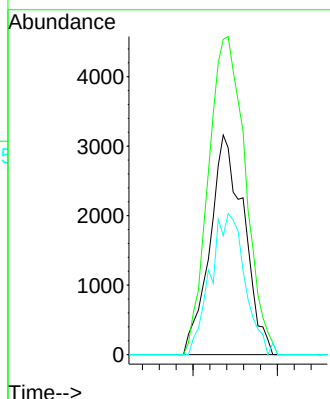
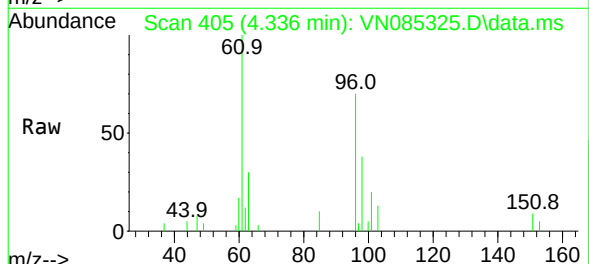
Tgt Ion: 96 Resp: 8833

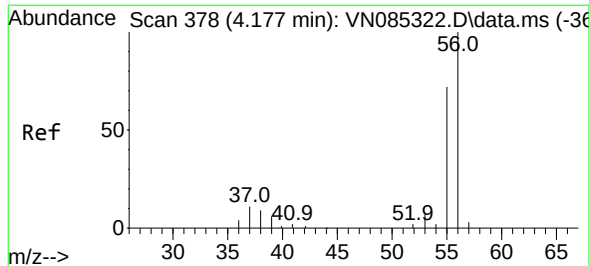
Ion Ratio Lower Upper

96 100

61 143.5 142.4 213.6

98 54.2 51.5 77.3





#13

Acrolein

Concen: 27.485 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 11310

Ion Ratio Lower Upper

56 100

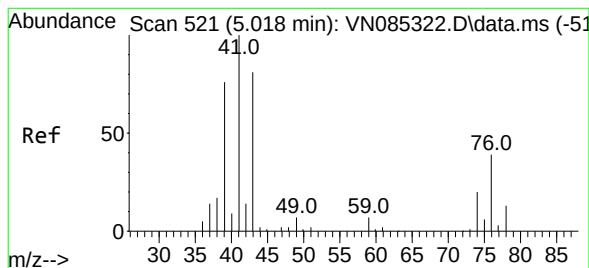
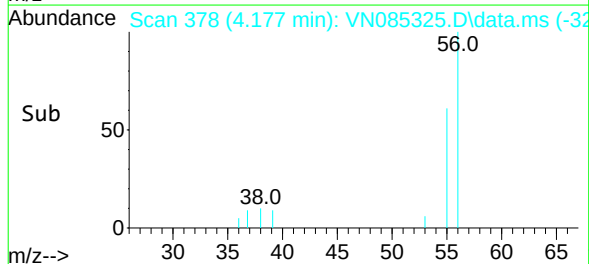
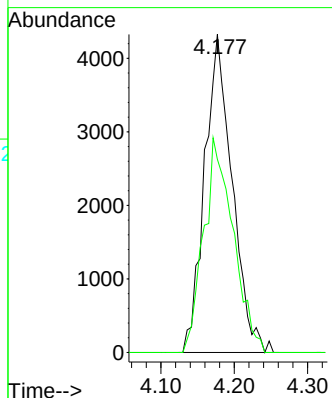
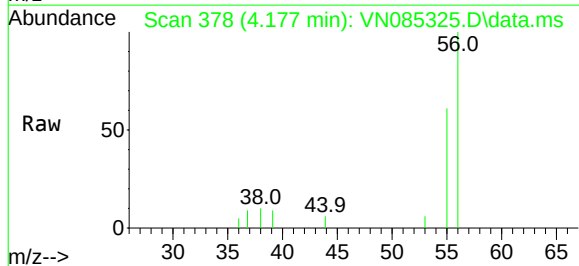
55 72.2 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#14

Allyl chloride

Concen: 5.004 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

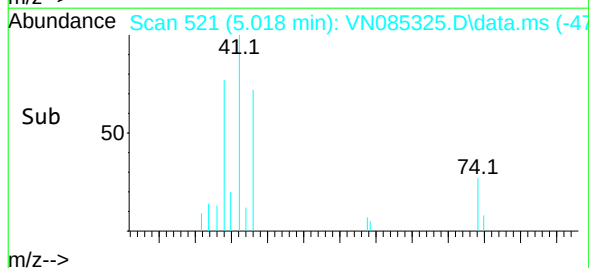
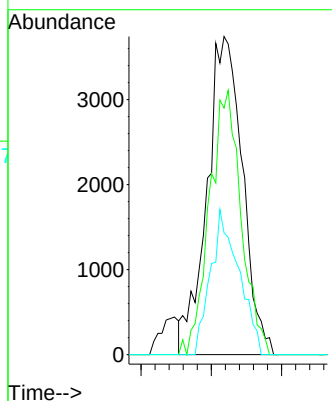
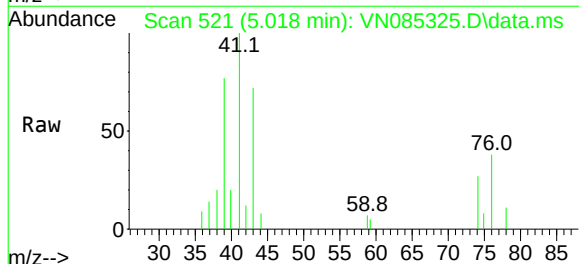
Tgt Ion: 41 Resp: 13153

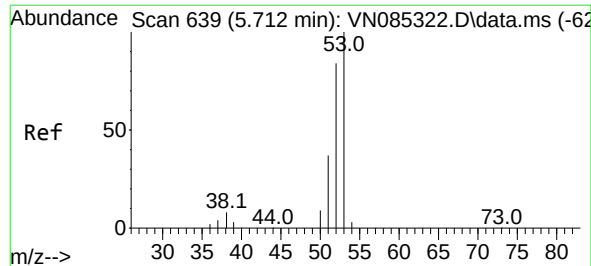
Ion Ratio Lower Upper

41 100

39 74.0 64.4 96.6

76 36.2 31.5 47.3





#15

Acrylonitrile

Concen: 24.737 ug/l

RT: 5.724 min Scan# 641

Delta R.T. 0.012 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

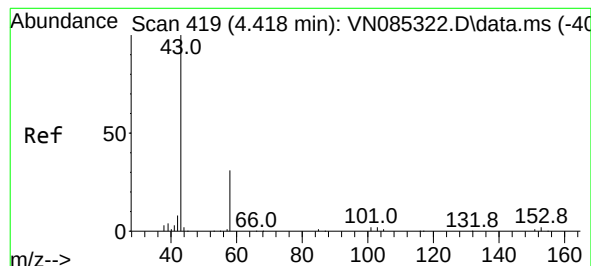
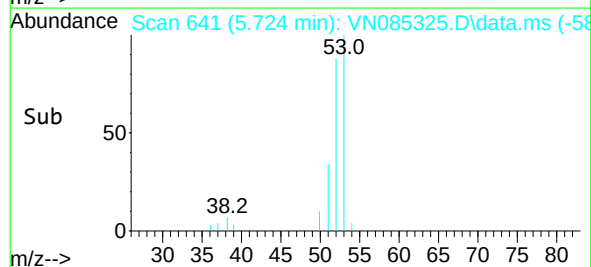
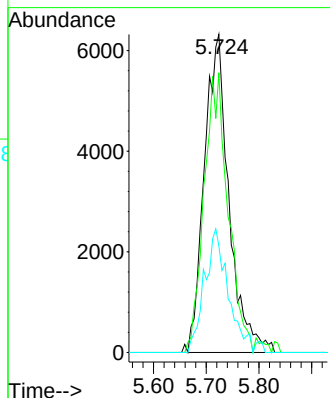
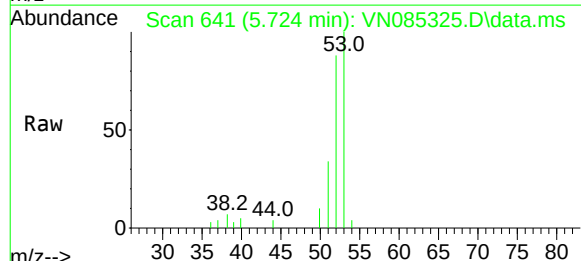
ClientSampleId :

VSTDICC005

Tgt Ion:	53	Resp:	20549
Ion	Ratio	Lower	Upper
53	100		
52	85.6	66.6	100.0
51	37.1	29.6	44.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#16

Acetone

Concen: 24.926 ug/l

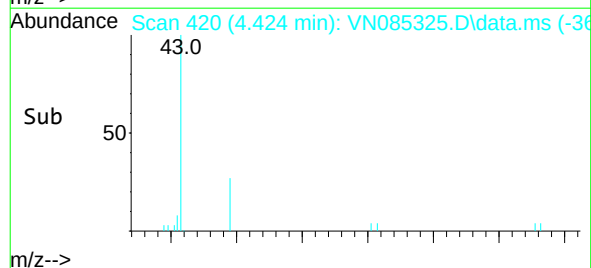
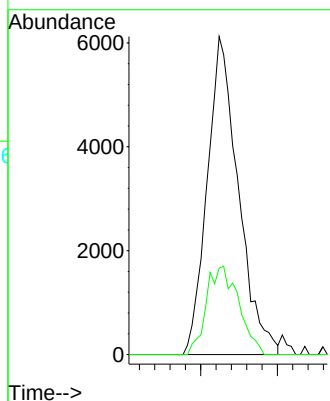
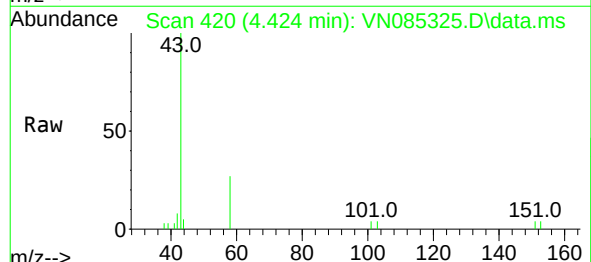
RT: 4.424 min Scan# 420

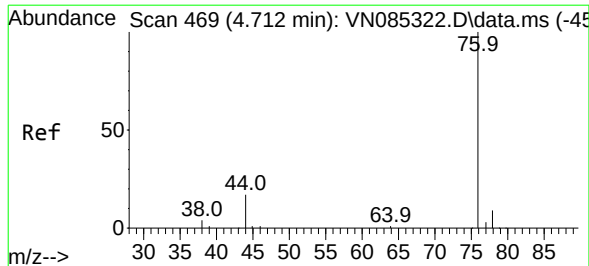
Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion:	43	Resp:	17276
Ion	Ratio	Lower	Upper
43	100		
58	27.2	24.5	36.7





#17

Carbon Disulfide

Concen: 5.035 ug/l

RT: 4.706 min Scan# 468

Delta R.T. -0.006 min

Lab File: VN085325.D

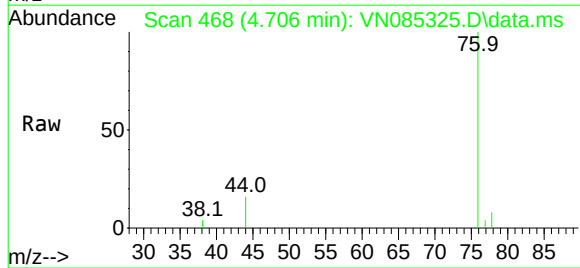
Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005



Tgt Ion: 76 Resp: 25152

Ion Ratio Lower Upper

76 100

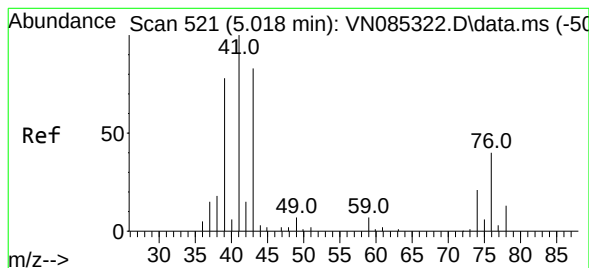
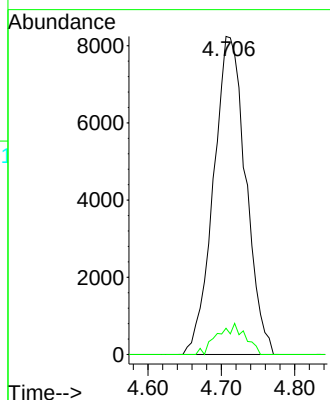
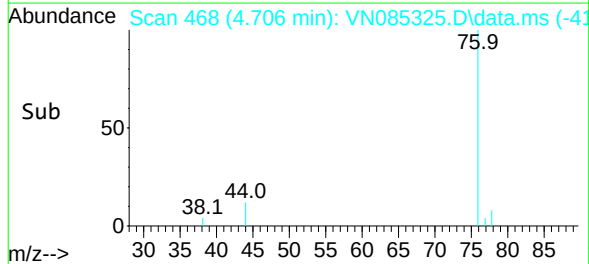
78 8.3 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#18

Methyl Acetate

Concen: 5.009 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085325.D

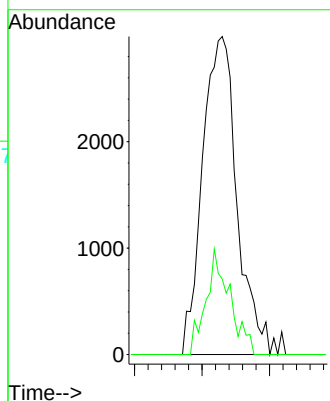
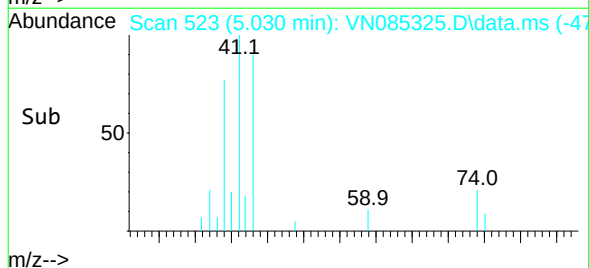
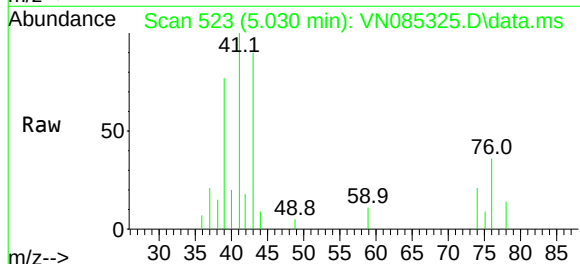
Acq: 27 Dec 2024 12:01

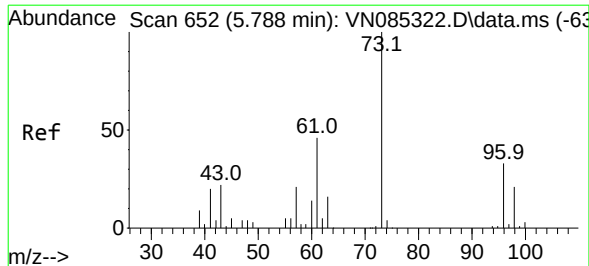
Tgt Ion: 43 Resp: 10628

Ion Ratio Lower Upper

43 100

74 23.0 19.0 28.6





#19

Methyl tert-butyl Ether

Concen: 4.945 ug/l

RT: 5.795 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 73 Resp: 26395

Ion Ratio Lower Upper

73 100

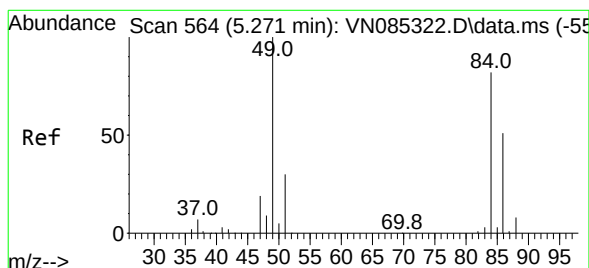
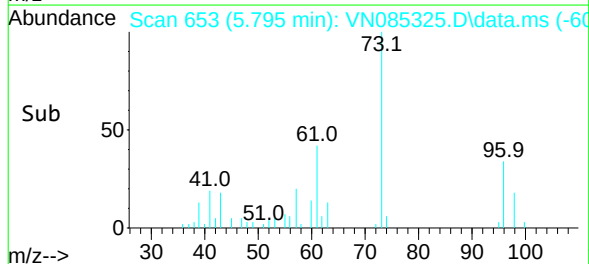
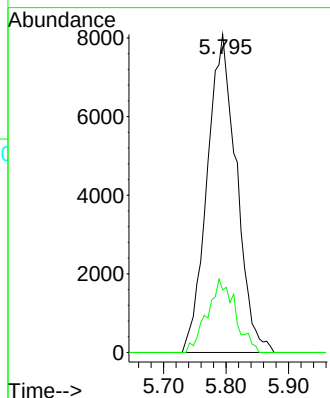
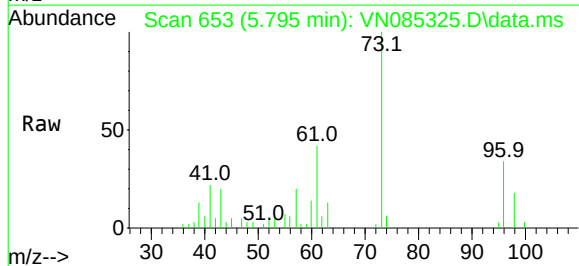
57 19.7 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#20

Methylene Chloride

Concen: 5.096 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion: 84 Resp: 9500

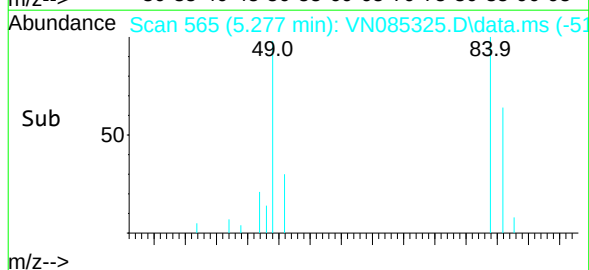
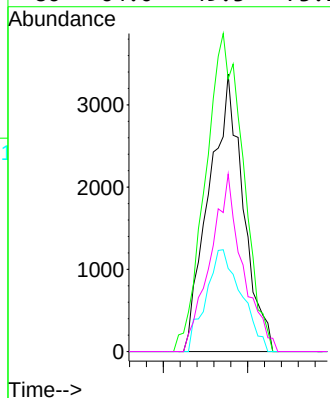
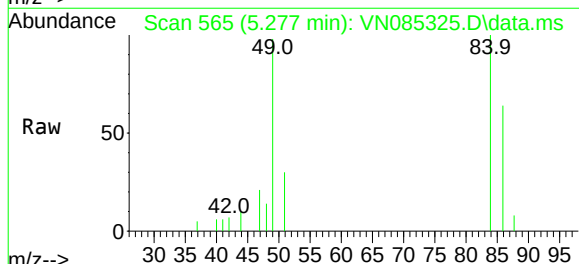
Ion Ratio Lower Upper

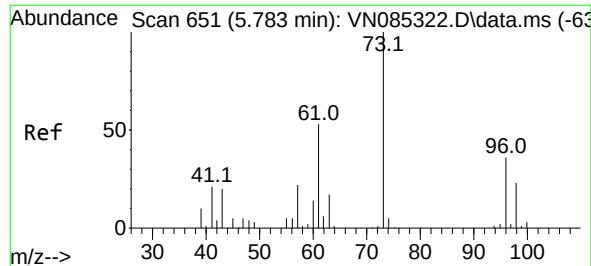
84 100

49 98.3 97.6 146.4

51 30.0 29.1 43.7

86 64.0 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 5.085 ug/l

RT: 5.777 min Scan# 651

Delta R.T. -0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 8724

Ion Ratio Lower Upper

96 100

61 125.3 118.0 177.0

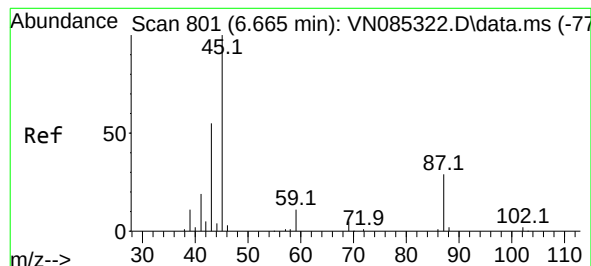
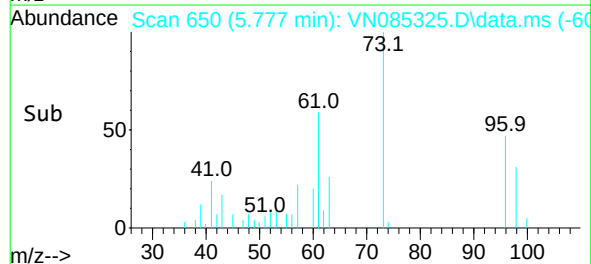
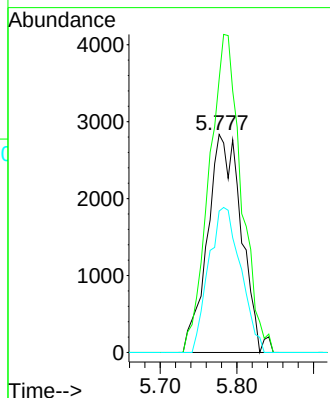
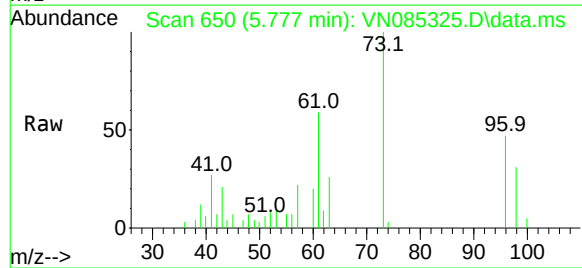
98 64.9 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#22

Diisopropyl ether

Concen: 5.165 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion: 45 Resp: 29256

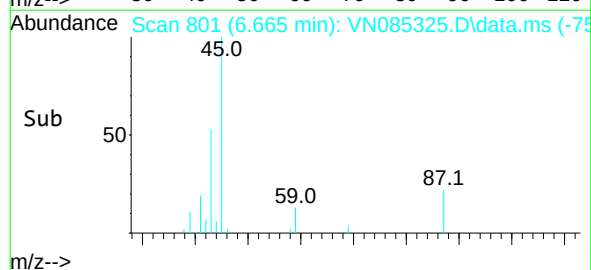
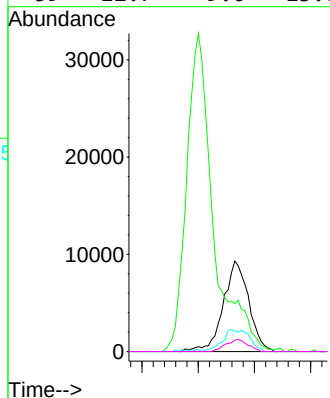
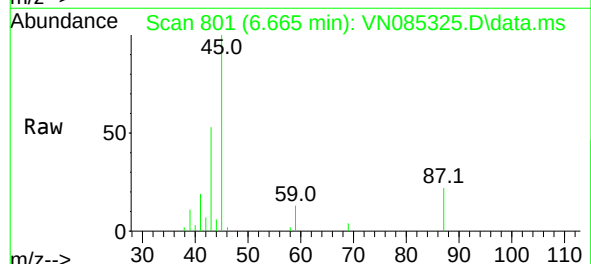
Ion Ratio Lower Upper

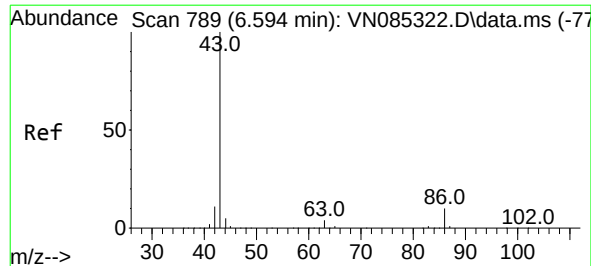
45 100

43 49.8 44.1 66.1

87 22.5 23.2 34.8#

59 12.7 9.0 13.6





#23

Vinyl Acetate

Concen: 24.429 ug/l m

RT: 6.600 min Scan# 79

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 99465

Ion Ratio Lower Upper

43 100

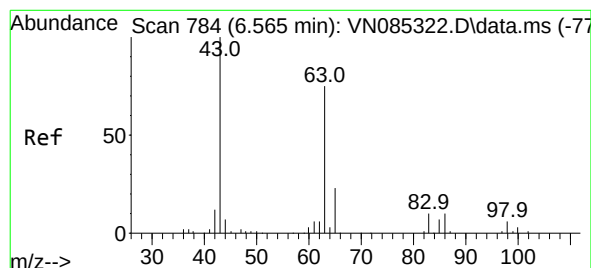
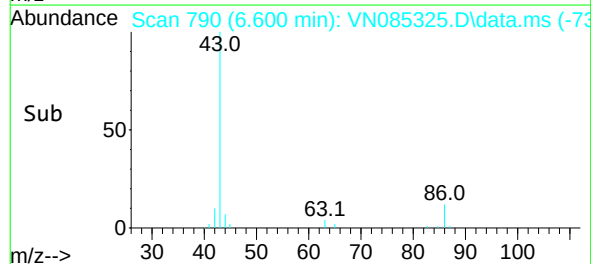
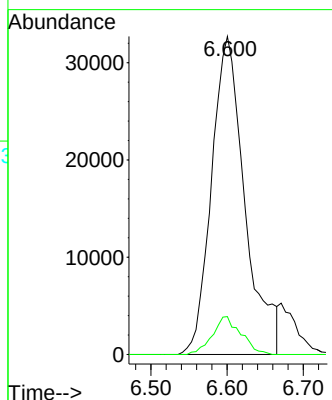
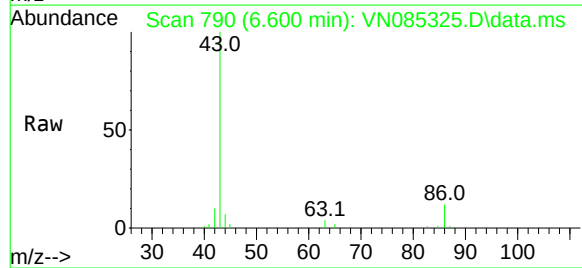
86 11.9 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#24

1,1-Dichloroethane

Concen: 5.067 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

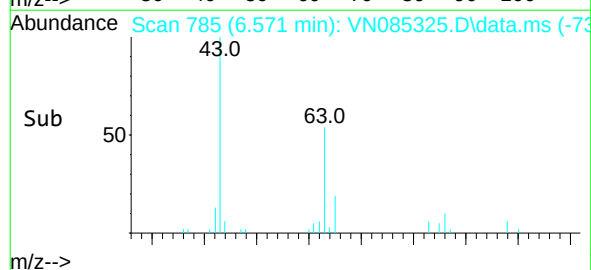
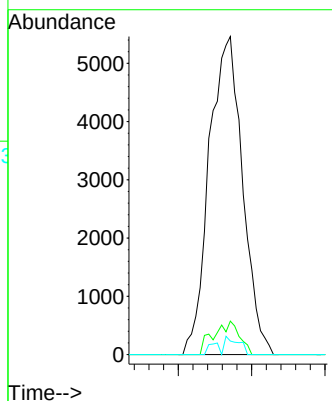
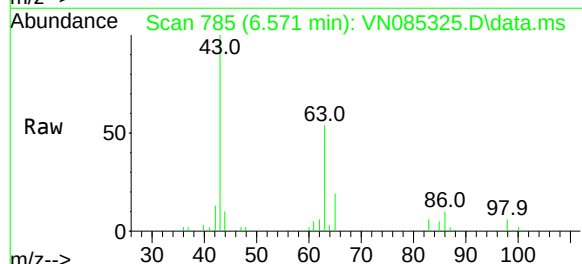
Tgt Ion: 63 Resp: 17288

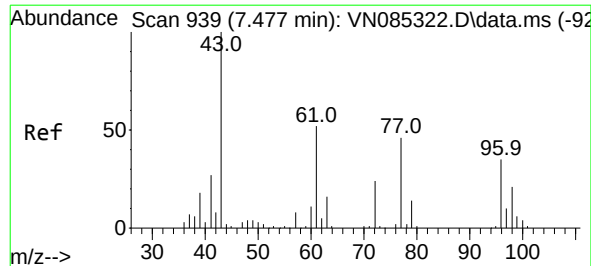
Ion Ratio Lower Upper

63 100

98 10.5 3.7 11.1

100 4.2 2.3 6.8





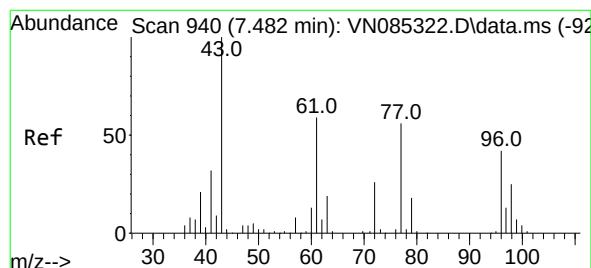
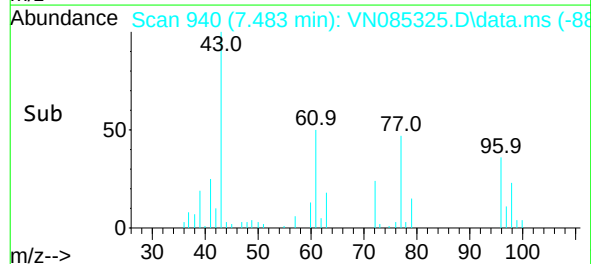
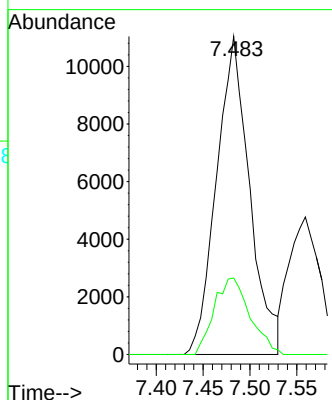
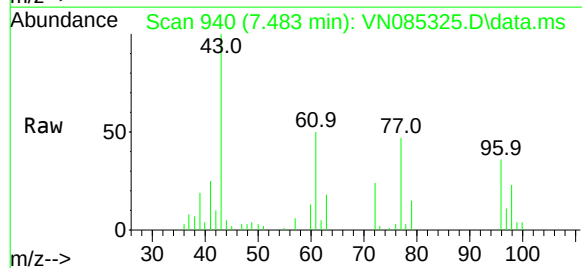
#25
2-Butanone
Concen: 25.274 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN085325.D
Acq: 27 Dec 2024 12:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 27176
Ion Ratio Lower Upper
43 100
72 24.1 19.6 29.4

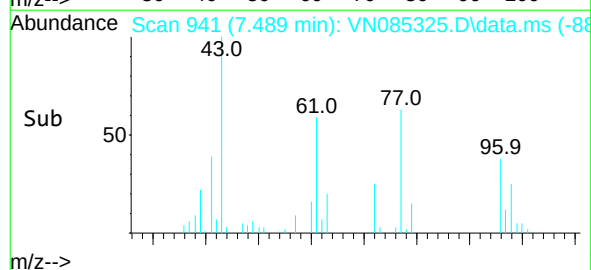
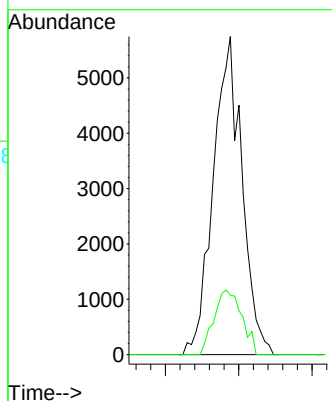
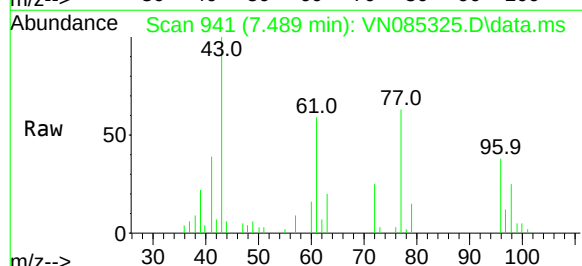
Manual Integrations
APPROVED

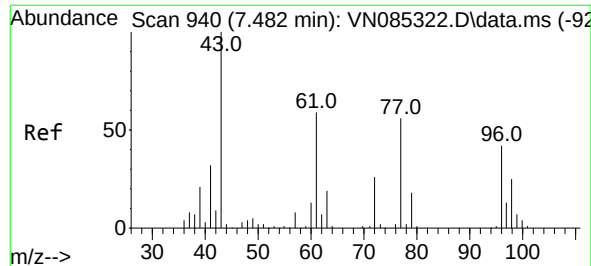
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#26
2,2-Dichloropropane
Concen: 5.225 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085325.D
Acq: 27 Dec 2024 12:01

Tgt Ion: 77 Resp: 15617
Ion Ratio Lower Upper
77 100
97 19.6 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 4.856 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 9778

Ion Ratio Lower Upper

96 100

61 159.5 0.0 296.4

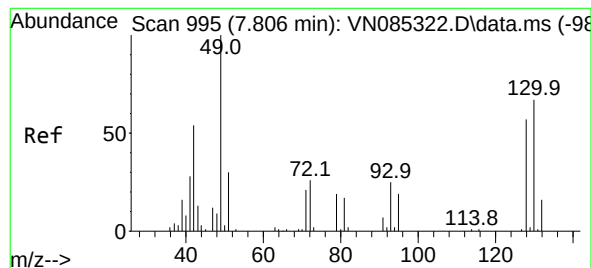
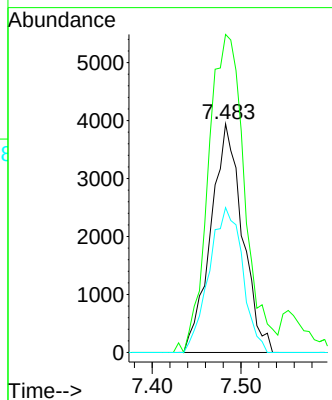
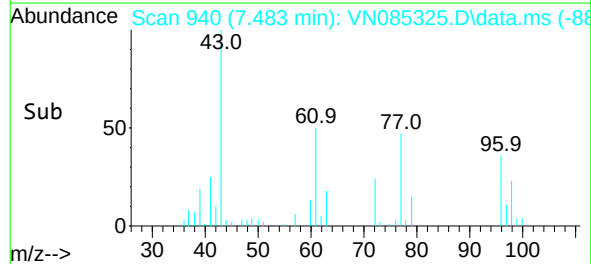
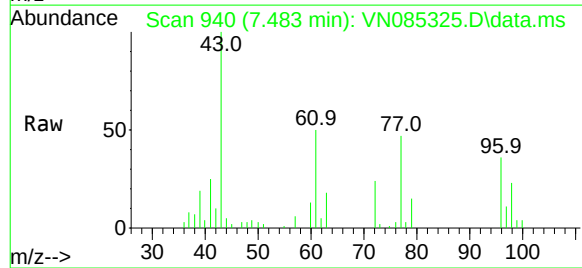
98 66.9 0.0 124.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#28

Bromochloromethane

Concen: 5.537 ug/l

RT: 7.806 min Scan# 995

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

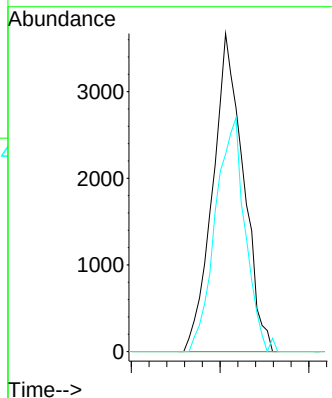
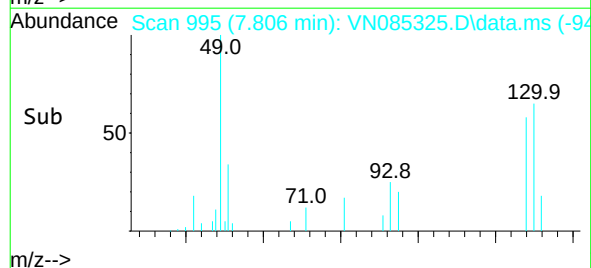
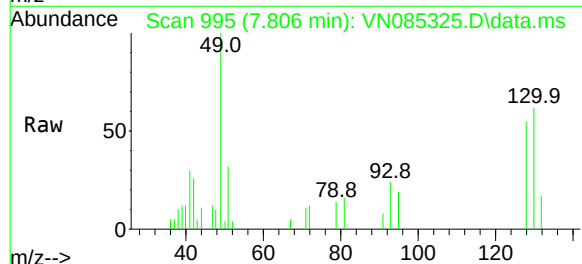
Tgt Ion: 49 Resp: 8779

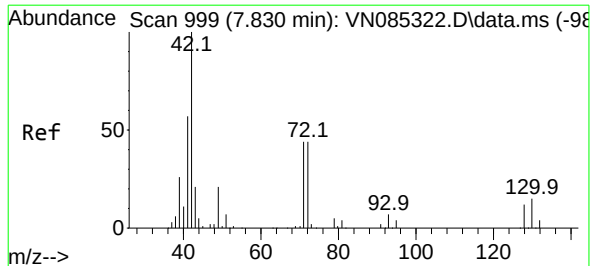
Ion Ratio Lower Upper

49 100

129 0.0 0.0 2.0

130 71.4 0.0 0.0#





#29

Tetrahydrofuran

Concen: 24.557 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 42 Resp: 17009

Ion Ratio Lower Upper

42 100

72 44.8 35.1 52.7

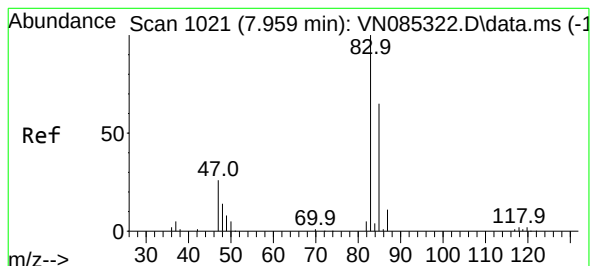
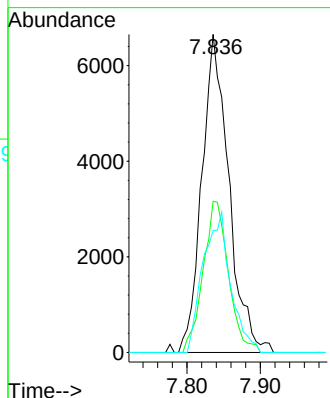
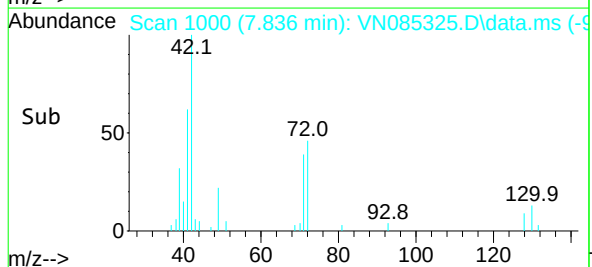
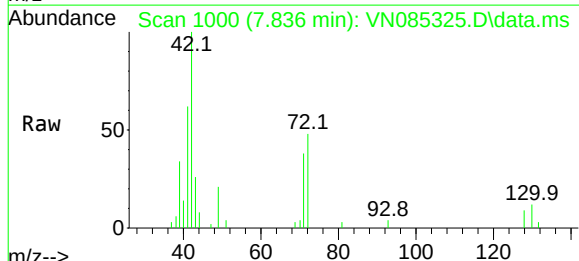
71 44.8 33.4 50.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#30

Chloroform

Concen: 4.909 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085325.D

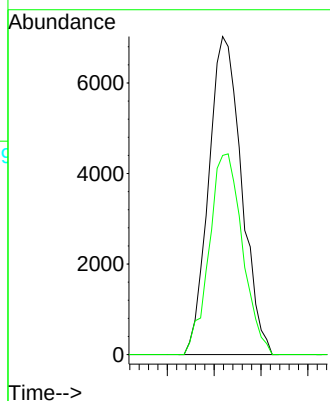
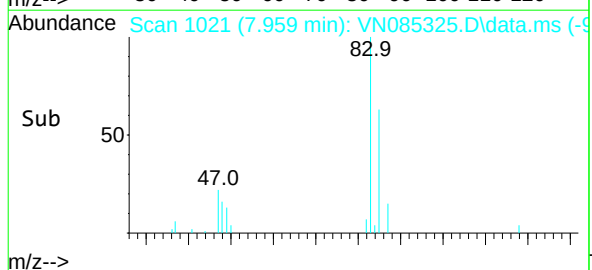
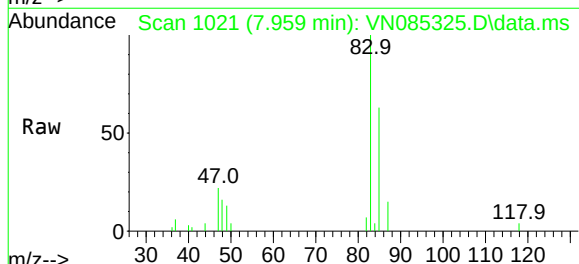
Acq: 27 Dec 2024 12:01

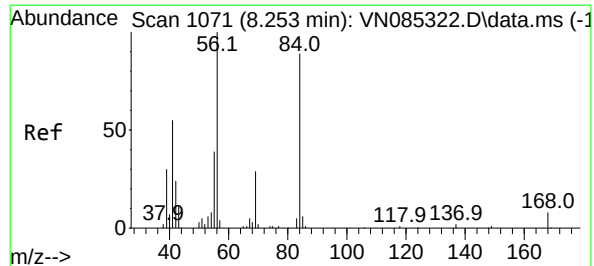
Tgt Ion: 83 Resp: 17135

Ion Ratio Lower Upper

83 100

85 62.6 52.0 78.0





#31

Cyclohexane

Concen: 5.672 ug/l

RT: 8.259 min Scan# 1071

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 17671

Ion Ratio Lower Upper

56 100

69 28.6 23.4 35.0

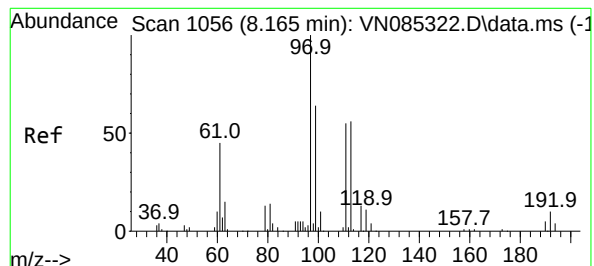
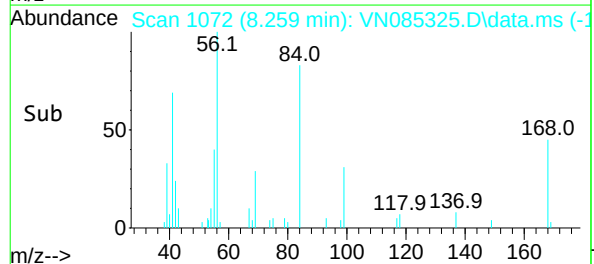
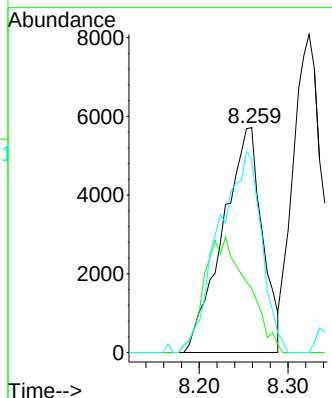
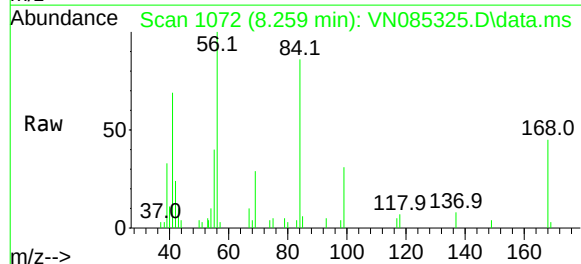
84 85.8 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#32

1,1,1-Trichloroethane

Concen: 5.035 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

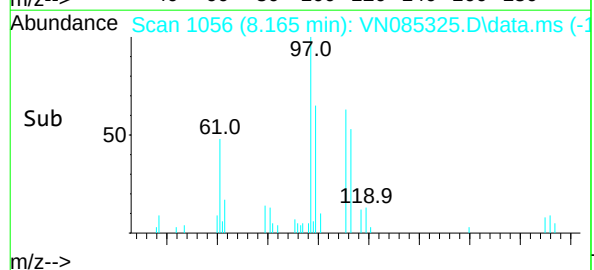
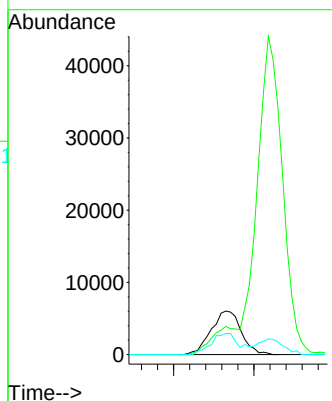
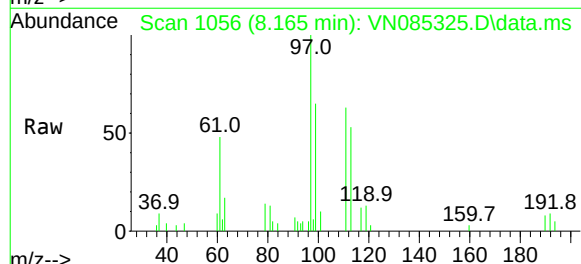
Tgt Ion: 97 Resp: 15694

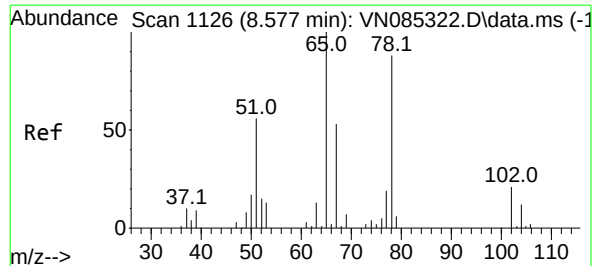
Ion Ratio Lower Upper

97 100

99 51.9 53.3 79.9#

61 45.1 39.6 59.4





#33

1,2-Dichloroethane-d4

Concen: 5.307 ug/l

RT: 8.577 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 11186

Ion Ratio Lower Upper

65 100

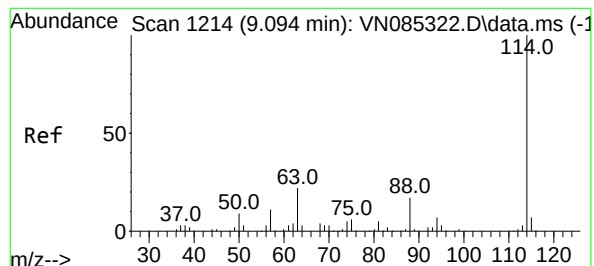
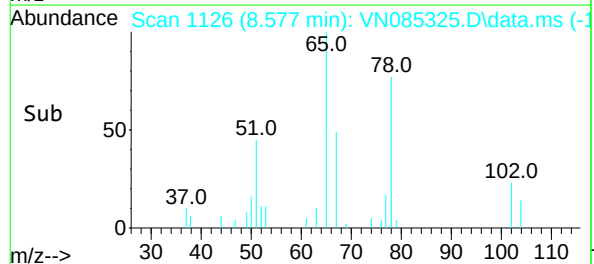
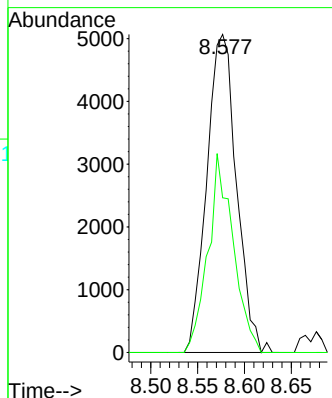
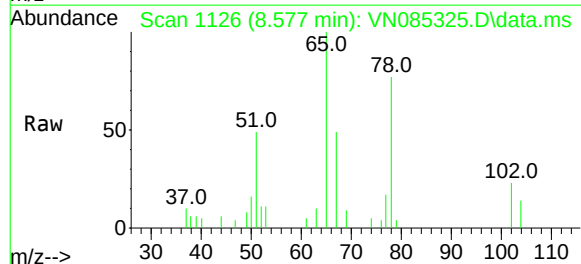
67 52.9 0.0 104.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

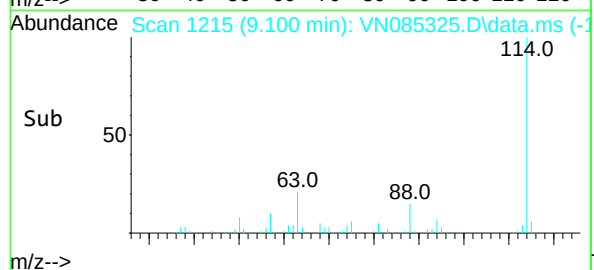
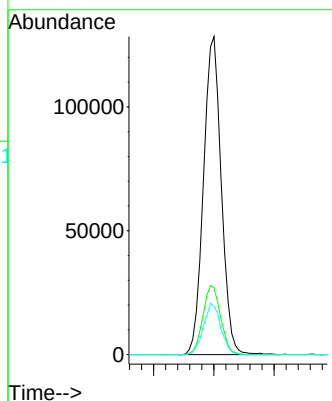
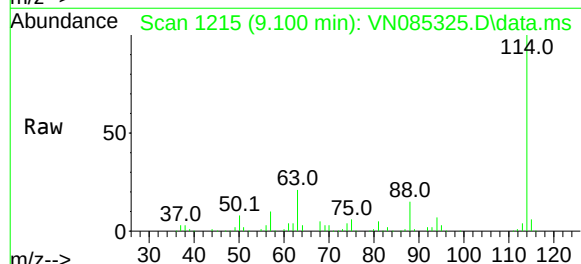
Tgt Ion:114 Resp: 263044

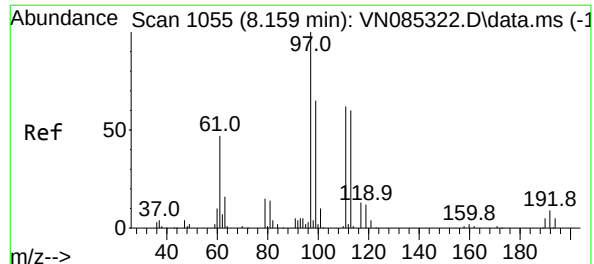
Ion Ratio Lower Upper

114 100

63 21.0 0.0 43.4

88 15.1 0.0 33.6





#35

Dibromofluoromethane

Concen: 5.291 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:113 Resp: 8683

Ion Ratio Lower Upper

113 100

111 102.9 80.5 120.7

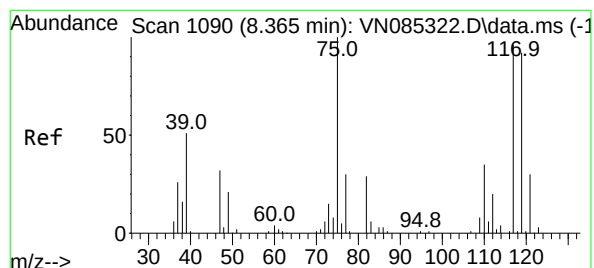
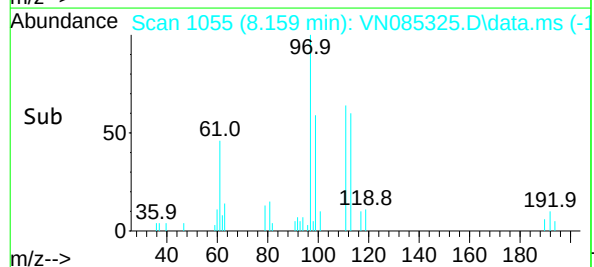
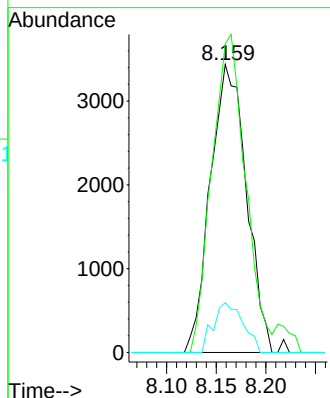
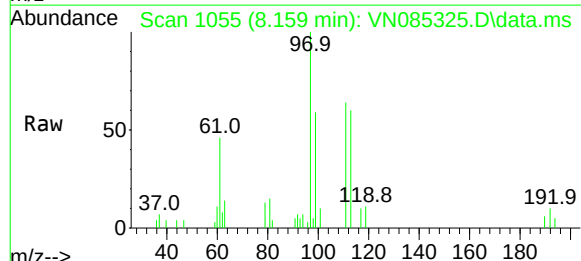
192 14.3 12.9 19.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#36

1,1-Dichloropropene

Concen: 5.001 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

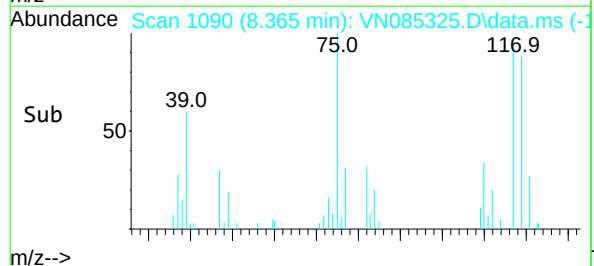
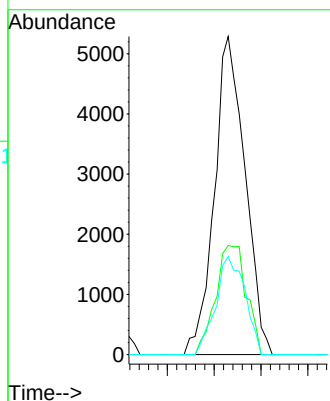
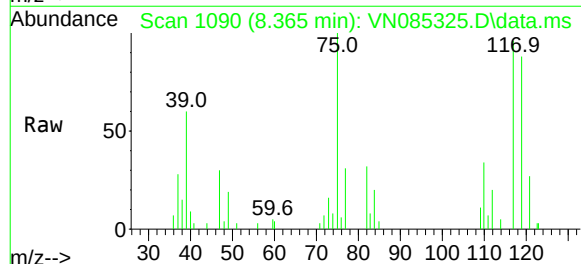
Tgt Ion: 75 Resp: 12017

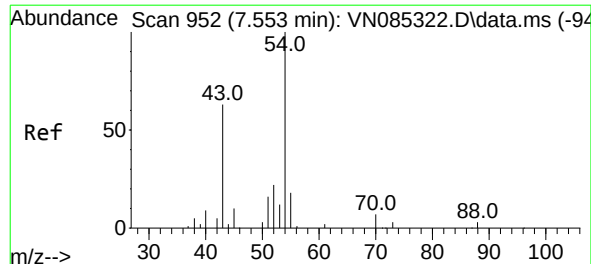
Ion Ratio Lower Upper

75 100

110 34.5 16.6 49.8

77 29.5 24.3 36.5





#37

Ethyl Acetate

Concen: 4.877 ug/l

RT: 7.559 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 11648

Ion Ratio Lower Upper

43 100

61 11.8 10.4 15.6

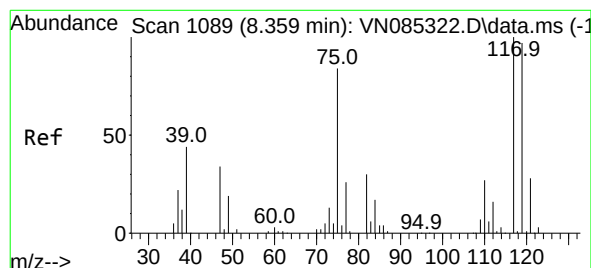
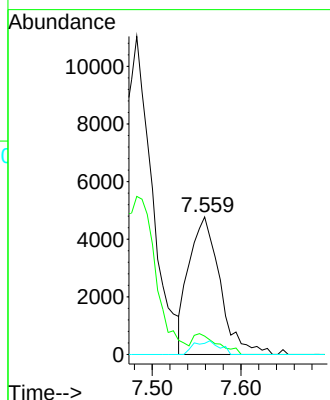
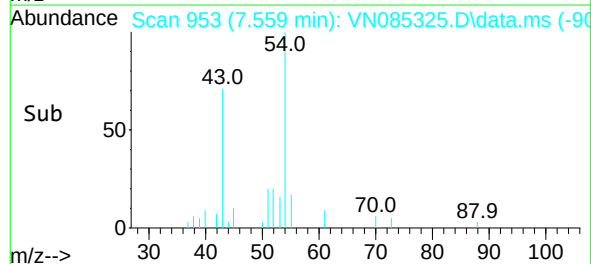
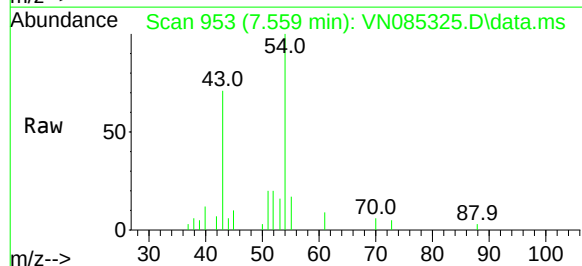
70 7.9 8.2 12.2#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#38

Carbon Tetrachloride

Concen: 4.945 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

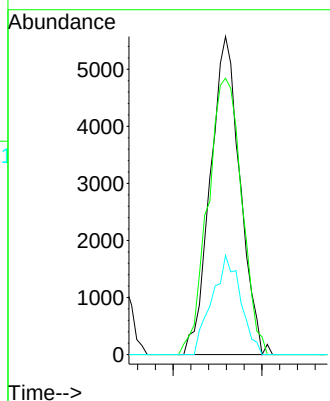
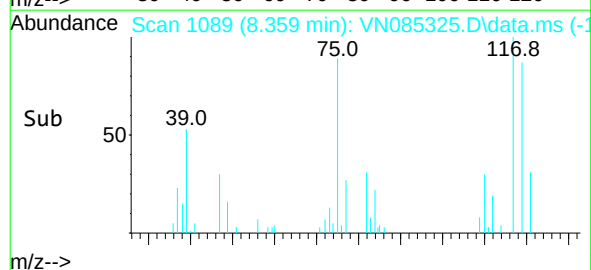
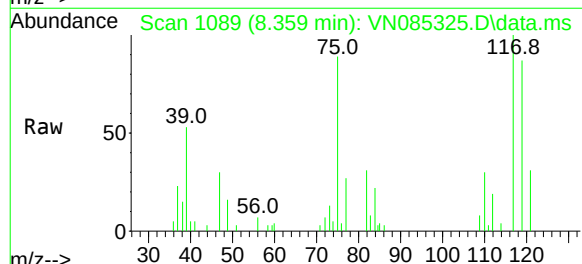
Tgt Ion:117 Resp: 12952

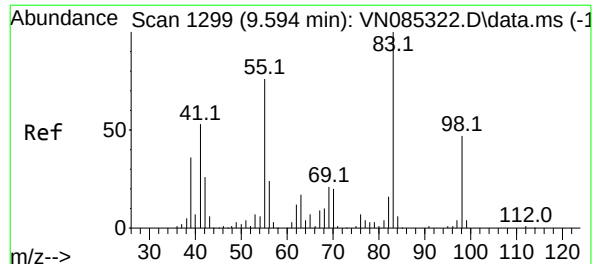
Ion Ratio Lower Upper

117 100

119 86.9 77.8 116.6

121 31.2 22.5 33.7





#39

Methylcyclohexane

Concen: 4.746 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 11831

Ion Ratio Lower Upper

83 100

55 72.2 60.7 91.1

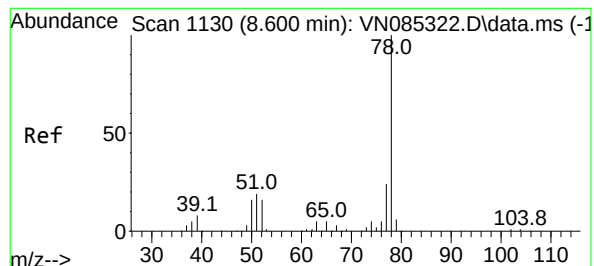
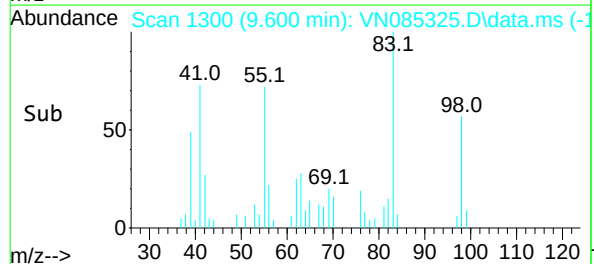
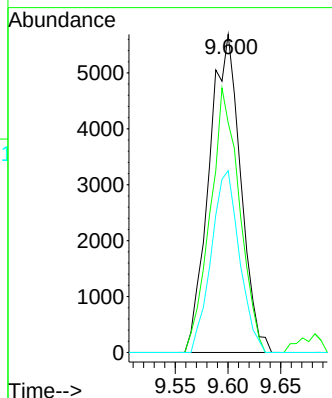
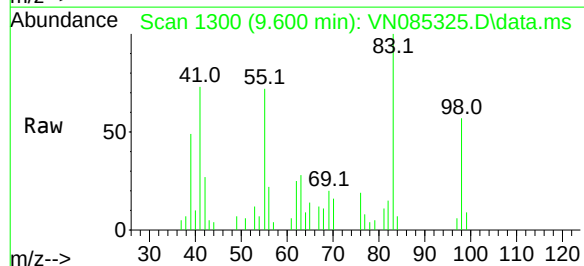
98 57.1 37.7 56.5#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#40

Benzene

Concen: 5.021 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085325.D

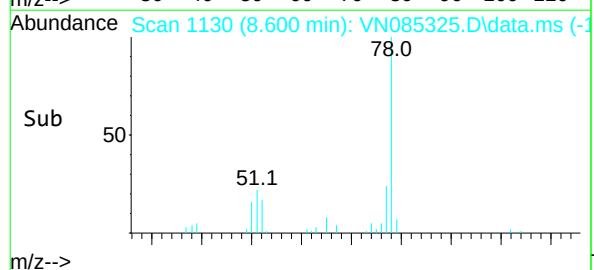
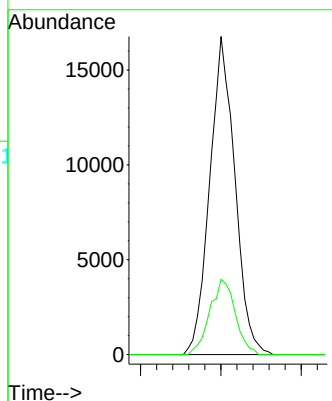
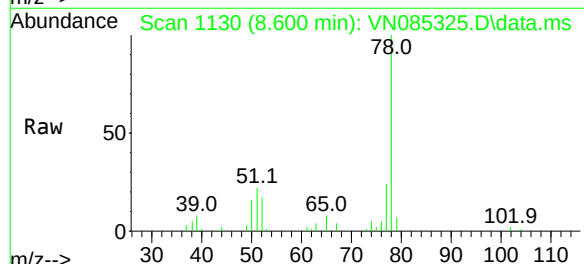
Acq: 27 Dec 2024 12:01

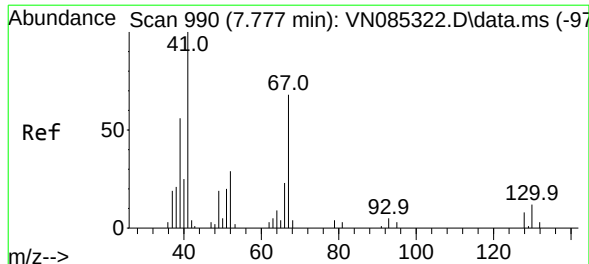
Tgt Ion: 78 Resp: 36472

Ion Ratio Lower Upper

78 100

77 23.6 19.0 28.4





#41

Methacrylonitrile

Concen: 5.104 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 6242

Ion Ratio Lower Upper

41 100

39 58.3 45.8 68.8

67 69.7 57.1 85.7

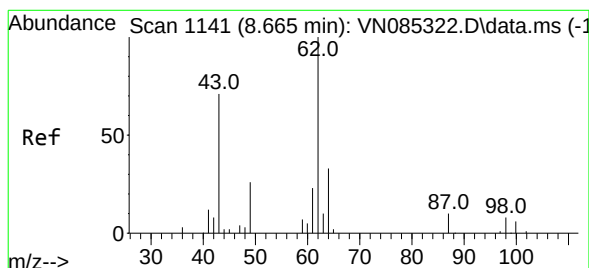
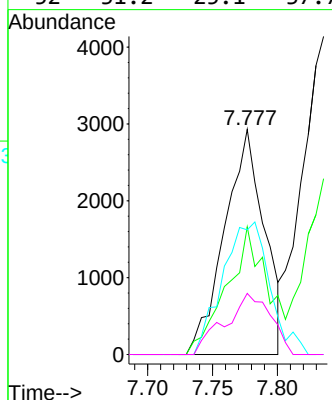
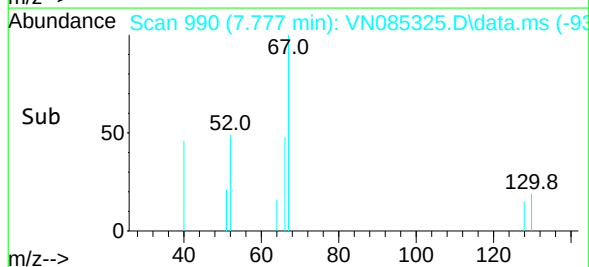
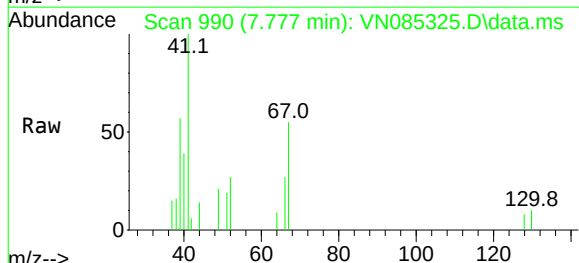
52 31.2 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#42

1,2-Dichloroethane

Concen: 4.983 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085325.D

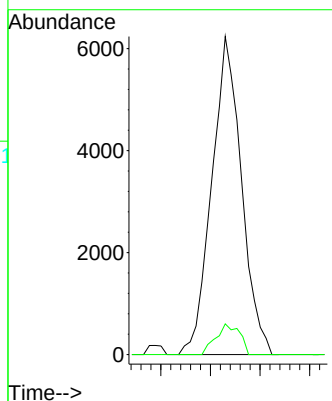
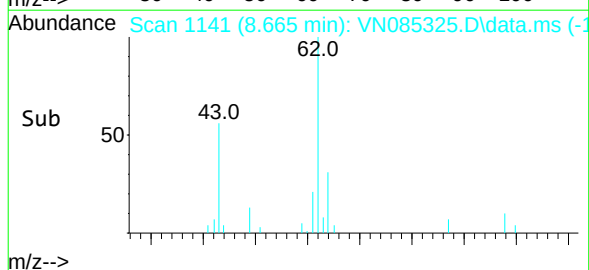
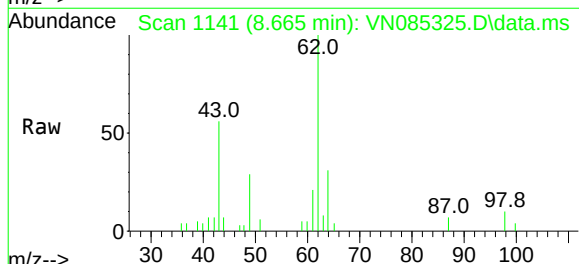
Acq: 27 Dec 2024 12:01

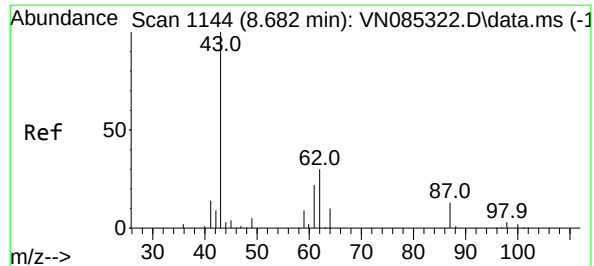
Tgt Ion: 62 Resp: 12978

Ion Ratio Lower Upper

62 100

98 7.7 0.0 17.6





#43

Isopropyl Acetate

Concen: 4.814 ug/l

RT: 8.688 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

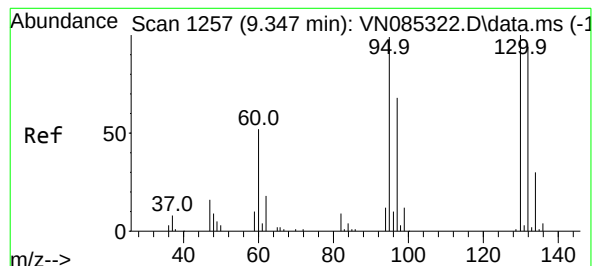
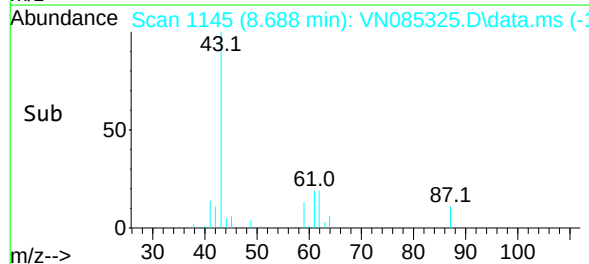
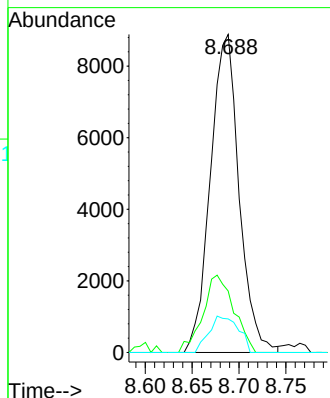
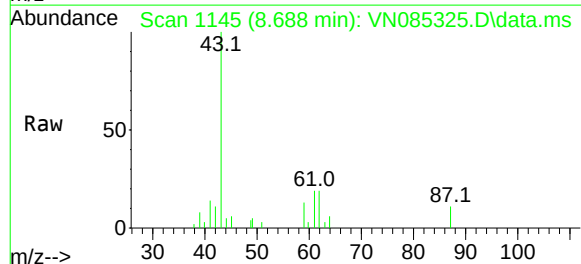
VSTDIC005

Tgt Ion:	43	Resp:	18930
Ion	Ratio	Lower	Upper
43	100		
61	26.2	20.8	31.2
87	11.7	10.2	15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#44

Trichloroethene

Concen: 4.961 ug/l

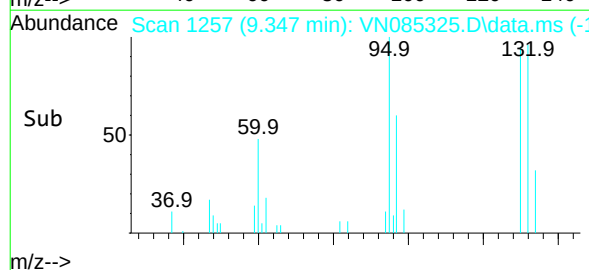
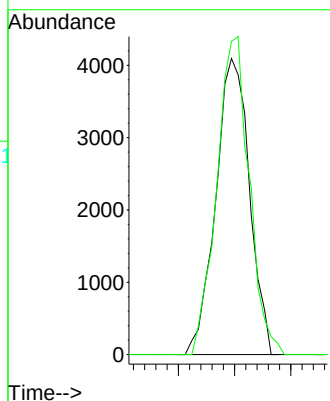
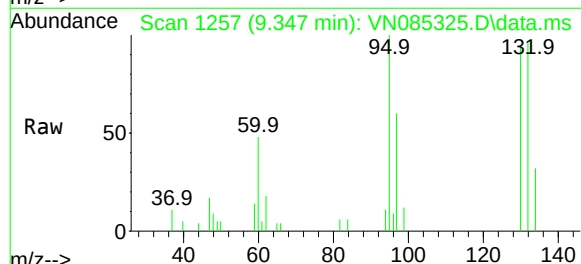
RT: 9.347 min Scan# 1257

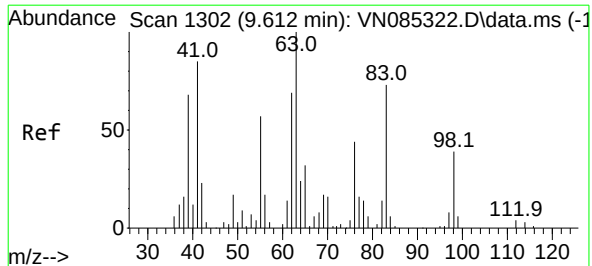
Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion:	130	Resp:	8533
Ion	Ratio	Lower	Upper
130	100		
95	105.8	0.0	197.8





#45

1,2-Dichloropropane

Concen: 4.958 ug/l

RT: 9.618 min Scan# 1302

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 9143

Ion Ratio Lower Upper

63 100

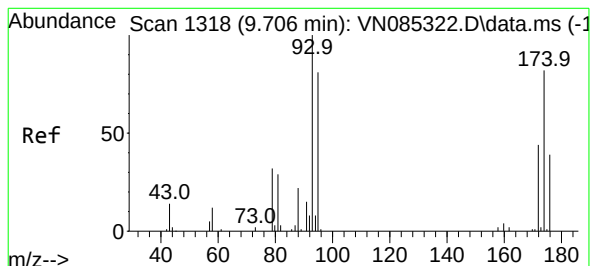
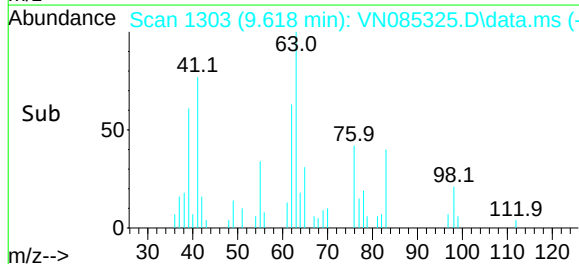
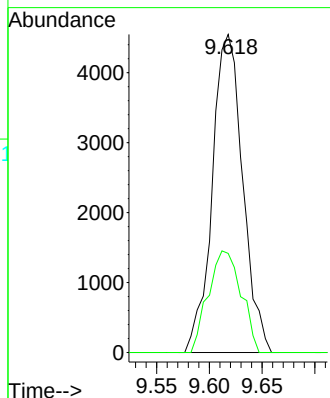
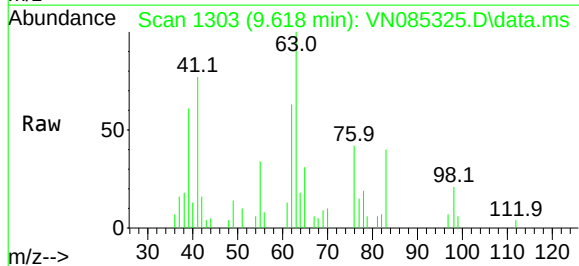
65 31.2 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#46

Dibromomethane

Concen: 5.125 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

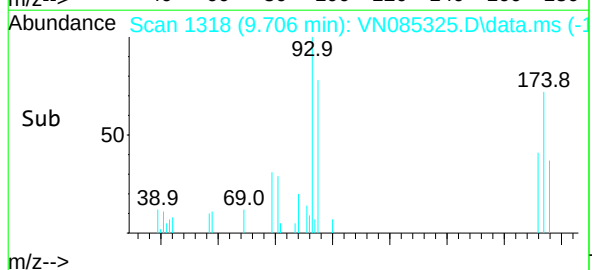
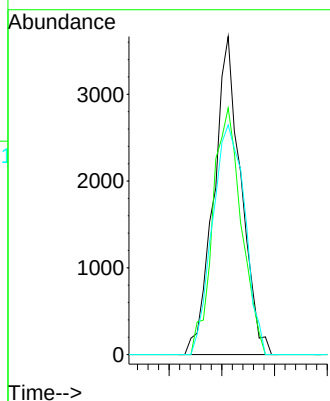
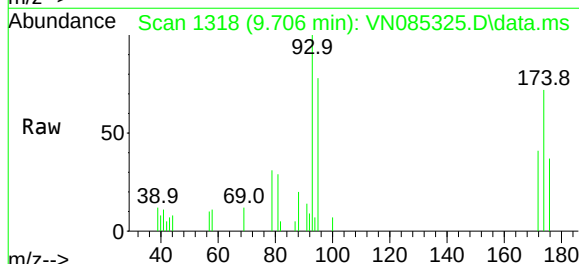
Tgt Ion: 93 Resp: 6573

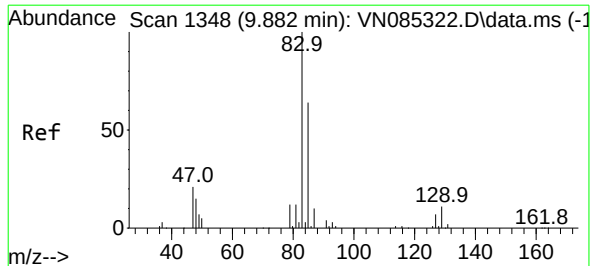
Ion Ratio Lower Upper

93 100

95 81.8 65.3 97.9

174 85.7 66.4 99.6





#47

Bromodichloromethane

Concen: 5.046 ug/l

RT: 9.888 min Scan# 1345

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

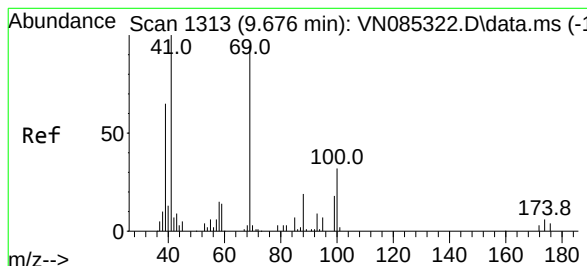
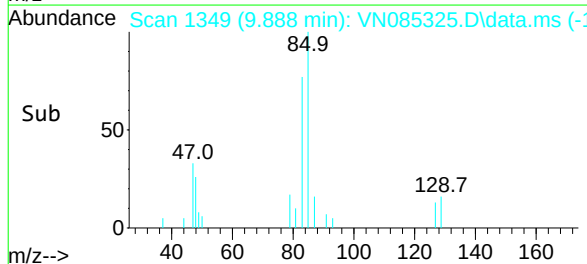
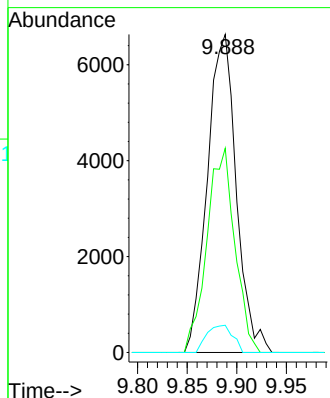
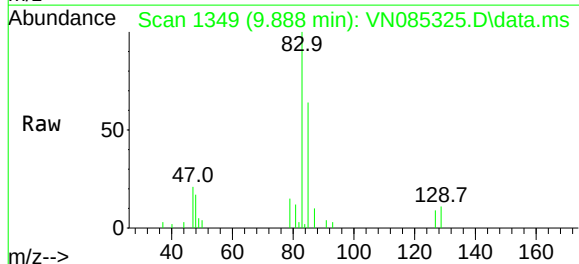
ClientSampleId :

VSTDIC005

Tgt Ion:	83	Resp:	13450
Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.0	76.4
127	8.6	5.8	8.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#48

Methyl methacrylate

Concen: 4.871 ug/l

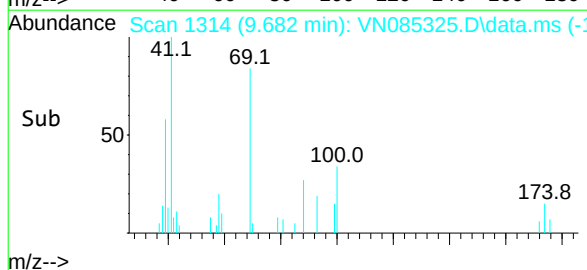
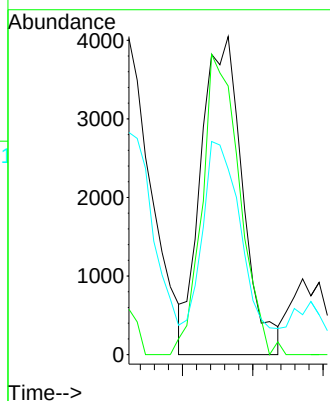
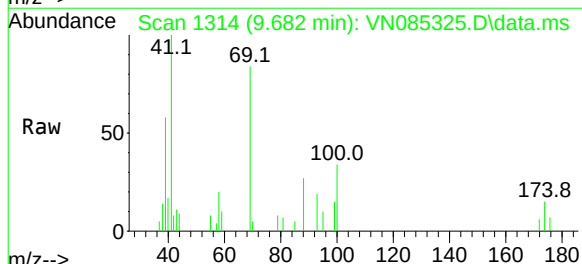
RT: 9.682 min Scan# 1314

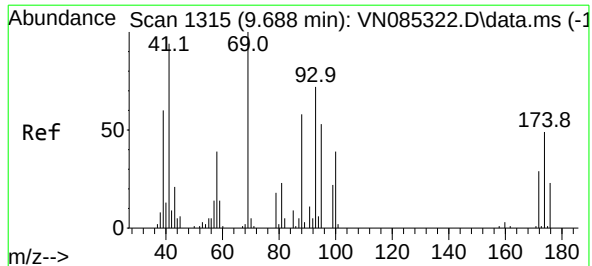
Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion:	41	Resp:	8311
Ion	Ratio	Lower	Upper
41	100		
69	85.3	67.7	101.5
39	66.9	51.2	76.8





#49

1,4-Dioxane

Concen: 97.886 ug/l

RT: 9.694 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VN085325.D

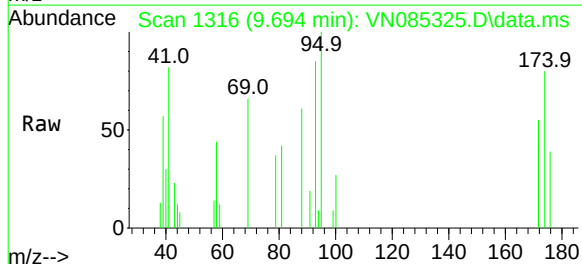
Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005



Tgt Ion: 88 Resp: 2520

Ion Ratio Lower Upper

88 100

43 36.7 22.1 33.1

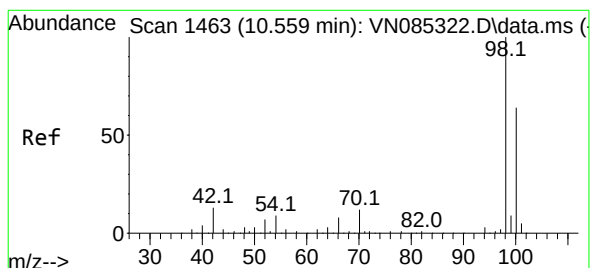
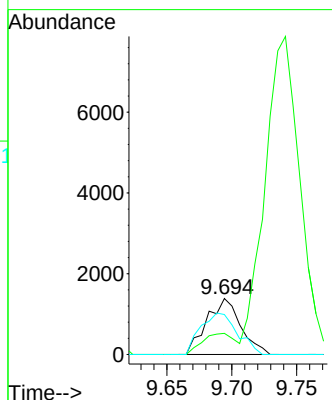
58 80.2 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#50

Toluene-d8

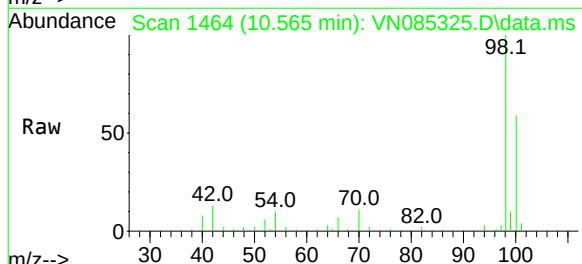
Concen: 5.367 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

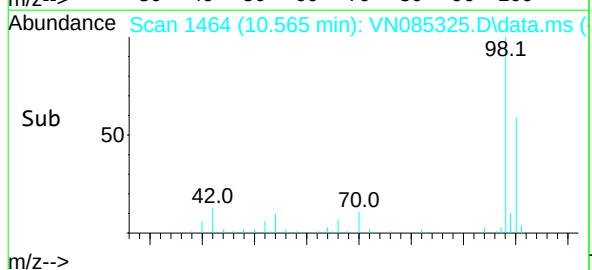
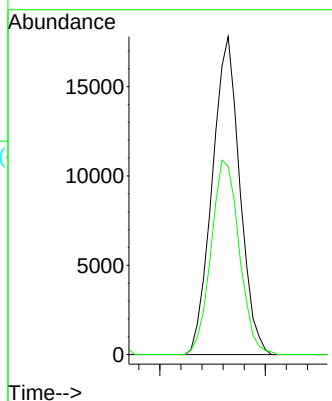


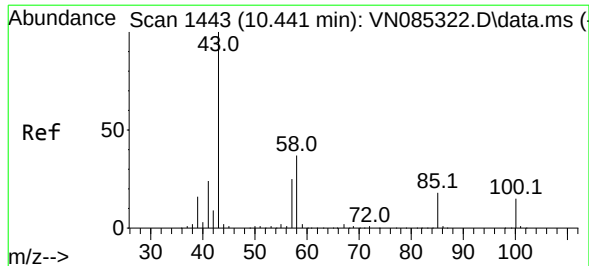
Tgt Ion: 98 Resp: 32316

Ion Ratio Lower Upper

98 100

100 62.5 51.5 77.3





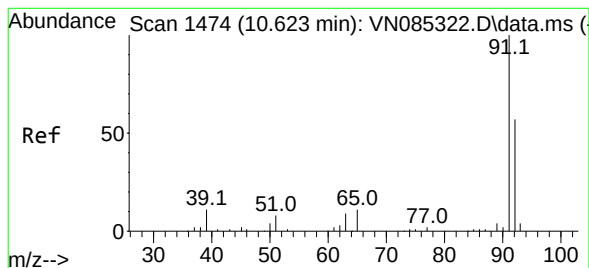
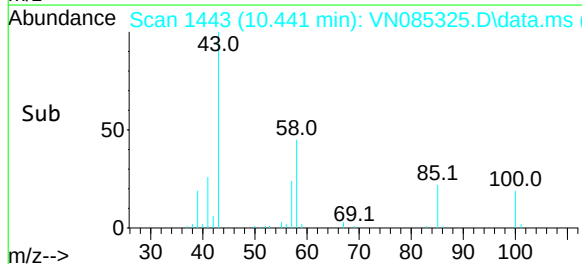
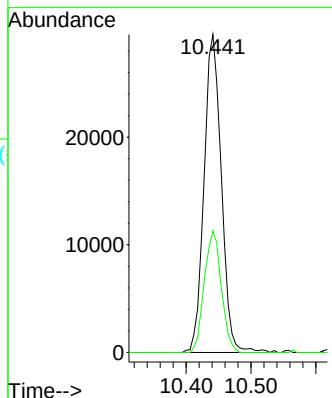
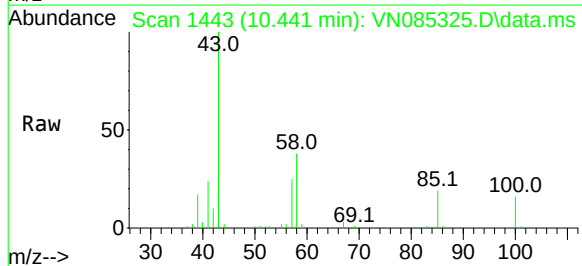
#51
4-Methyl-2-Pentanone
Concen: 24.812 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085325.D
Acq: 27 Dec 2024 12:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 43 Resp: 54831
Ion Ratio Lower Upper
43 100
58 37.5 30.3 45.5

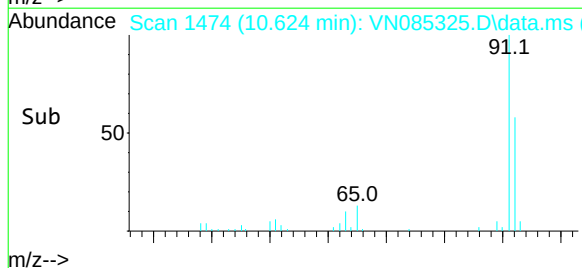
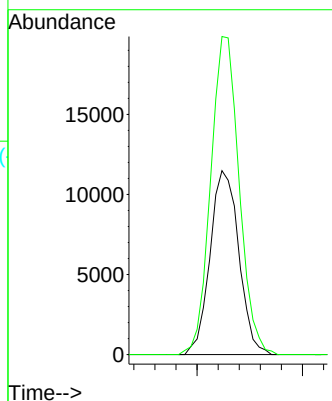
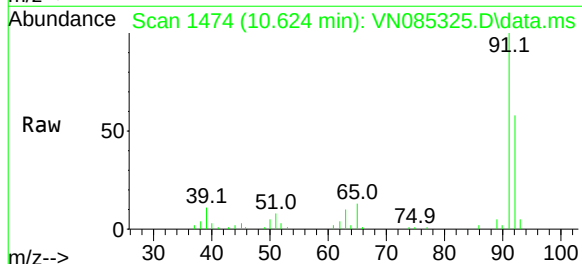
Manual Integrations
APPROVED

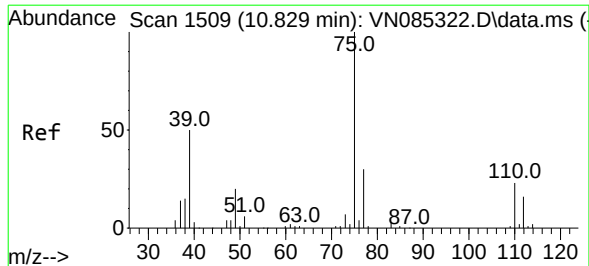
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#52
Toluene
Concen: 5.040 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VN085325.D
Acq: 27 Dec 2024 12:01

Tgt Ion: 92 Resp: 21799
Ion Ratio Lower Upper
92 100
91 171.1 140.2 210.4





#53

t-1,3-Dichloropropene

Concen: 4.993 ug/l

RT: 10.835 min Scan# 1509

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 13088

Ion Ratio Lower Upper

75 100

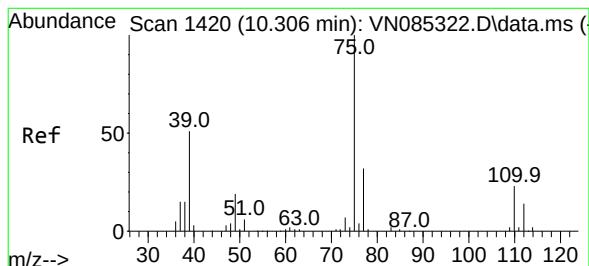
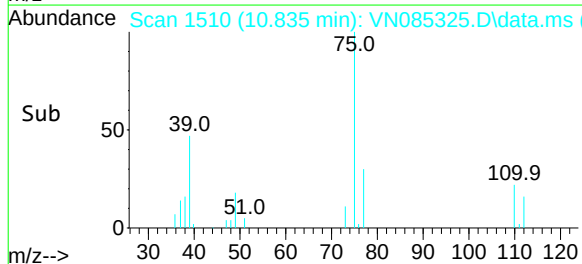
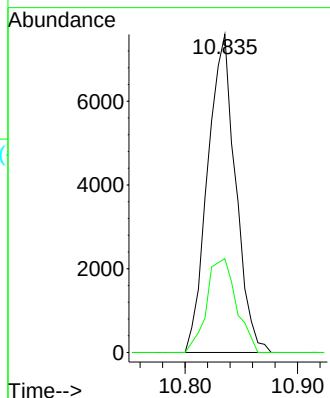
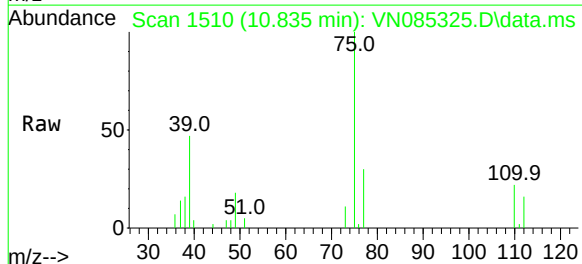
77 29.5 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#54

cis-1,3-Dichloropropene

Concen: 4.904 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

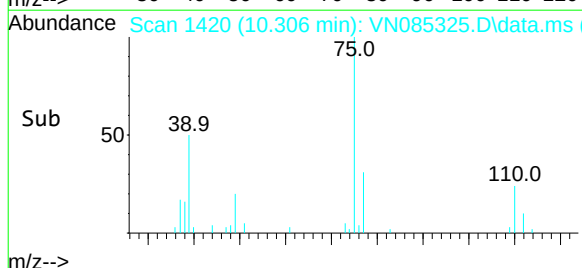
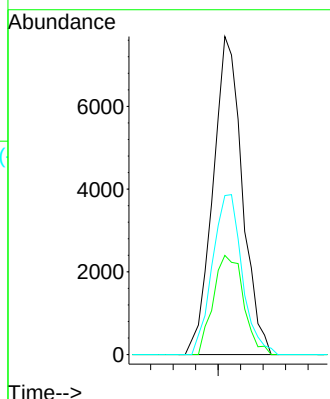
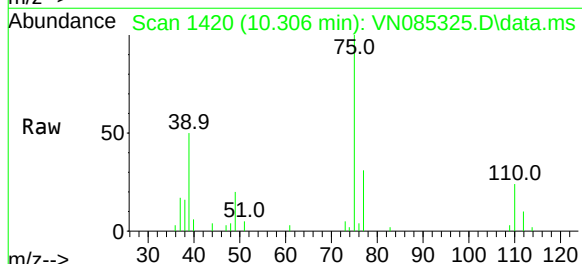
Tgt Ion: 75 Resp: 13900

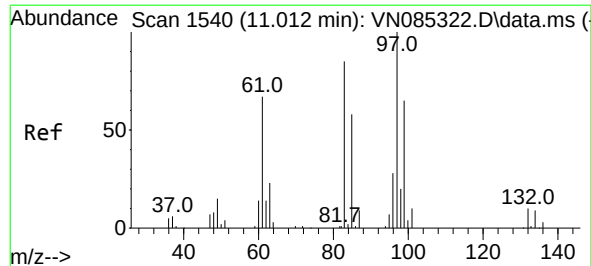
Ion Ratio Lower Upper

75 100

77 31.2 25.5 38.3

39 50.0 40.5 60.7





#55

1,1,2-Trichloroethane

Concen: 5.287 ug/l

RT: 11.012 min Scan# 15

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 8634

Ion Ratio Lower Upper

97 100

83 79.2 67.7 101.5

85 51.2 46.2 69.4

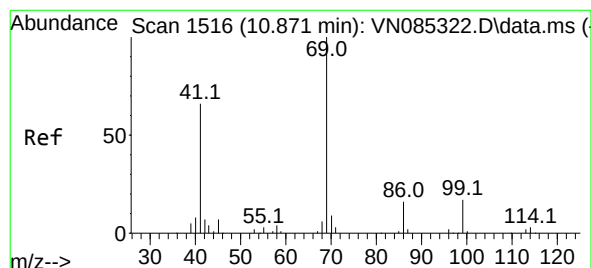
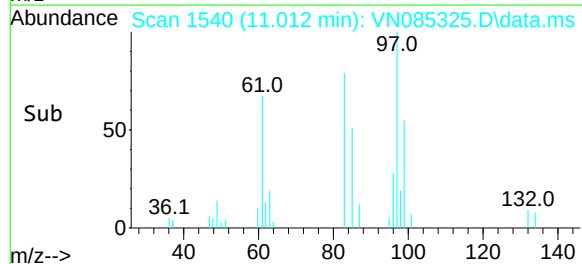
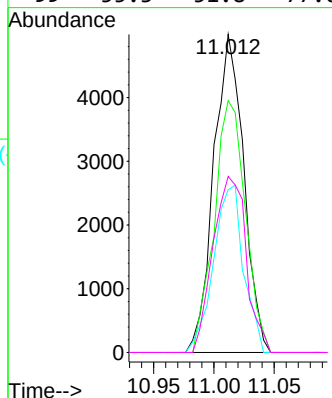
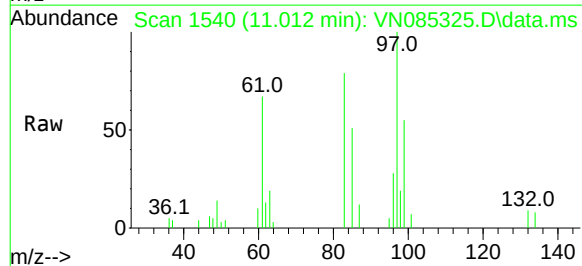
99 55.3 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#56

Ethyl methacrylate

Concen: 4.327 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

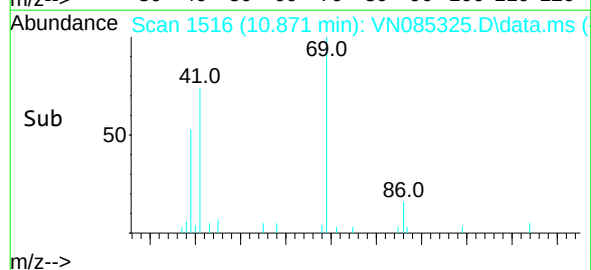
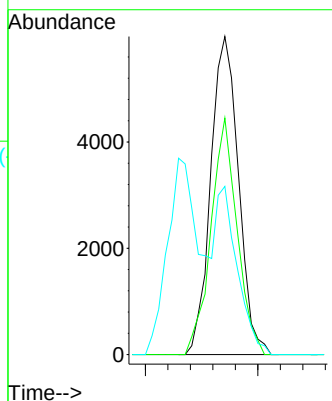
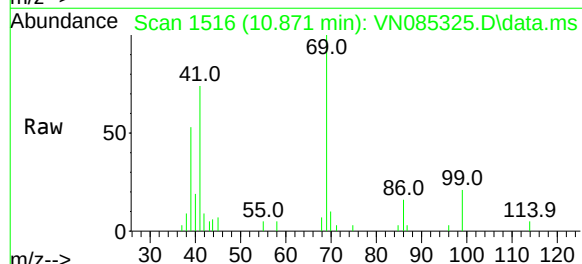
Tgt Ion: 69 Resp: 10291

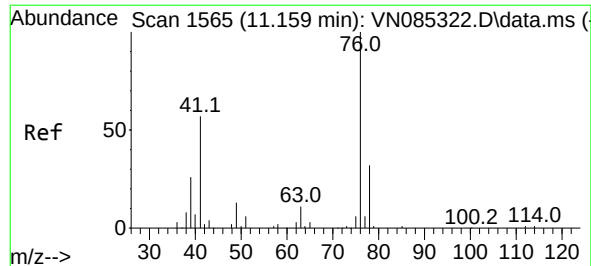
Ion Ratio Lower Upper

69 100

41 70.0 54.3 81.5

39 40.4 32.0 48.0





#57

1,3-Dichloropropane

Concen: 5.076 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion: 76 Resp: 14548

Ion Ratio Lower Upper

76 100

78 29.4 25.5 38.3

Instrument :

MSVOA_N

ClientSampleId :

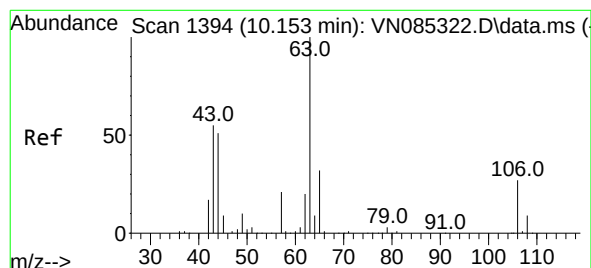
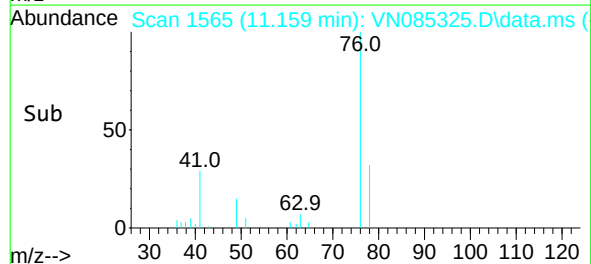
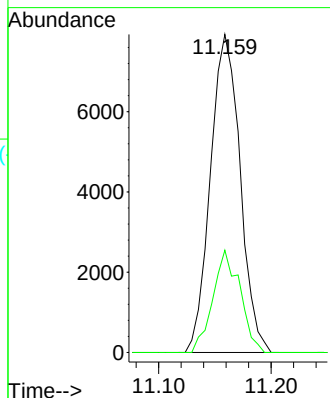
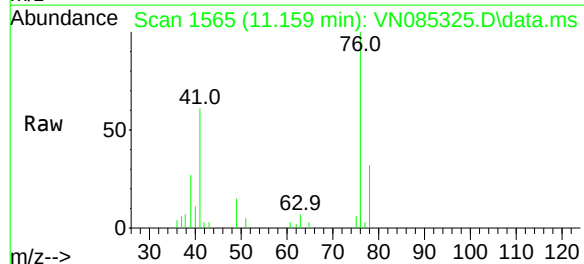
VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#58

2-Chloroethyl Vinyl ether

Concen: 24.895 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VN085325.D

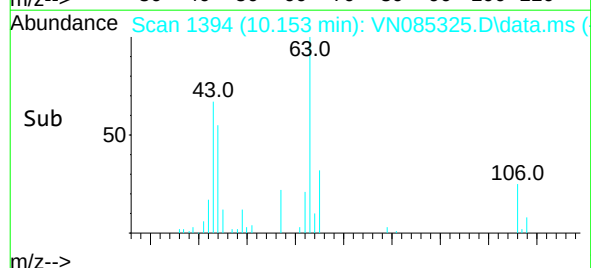
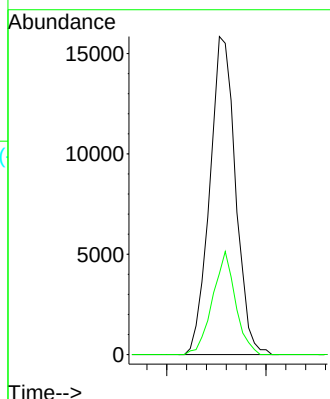
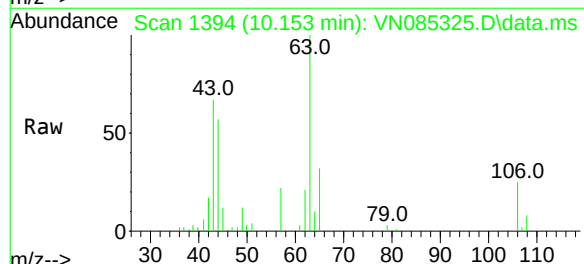
Acq: 27 Dec 2024 12:01

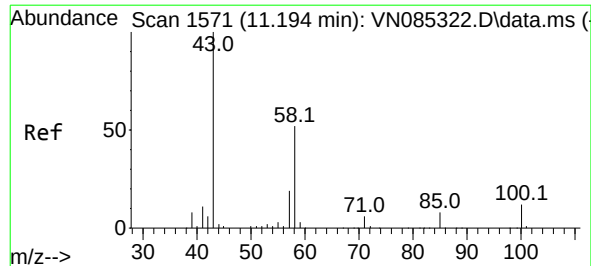
Tgt Ion: 63 Resp: 28647

Ion Ratio Lower Upper

63 100

106 28.7 22.1 33.1





#59

2-Hexanone

Concen: 24.105 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. -0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 36958

Ion Ratio Lower Upper

43 100

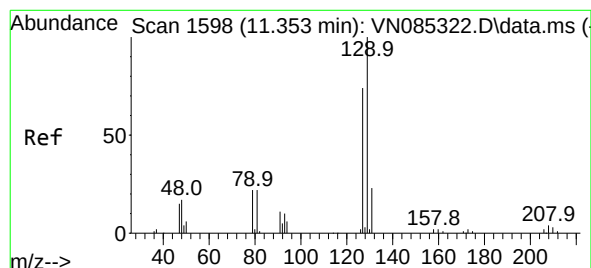
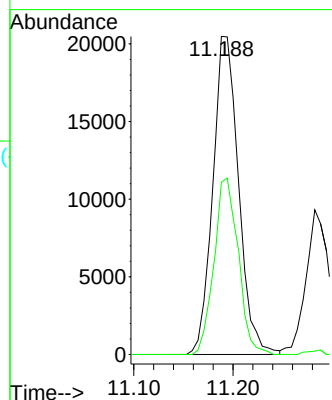
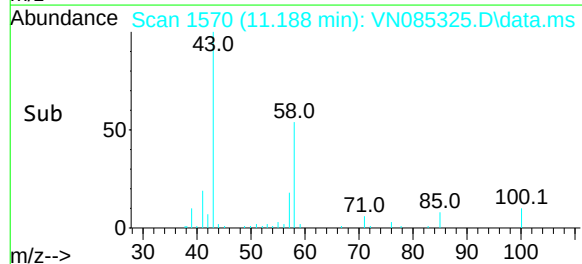
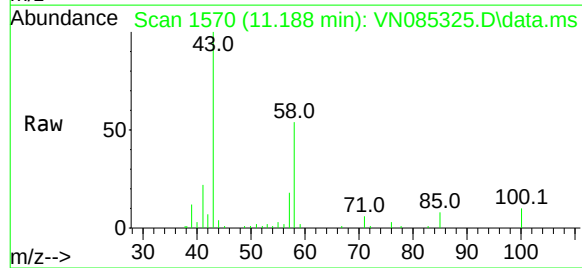
58 52.1 26.5 79.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#60

Dibromochloromethane

Concen: 4.991 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.006 min

Lab File: VN085325.D

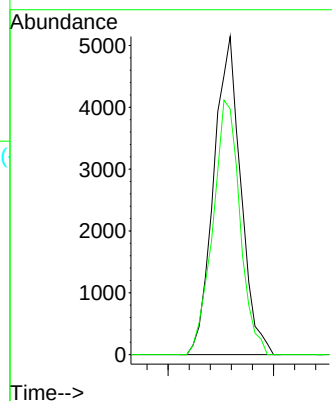
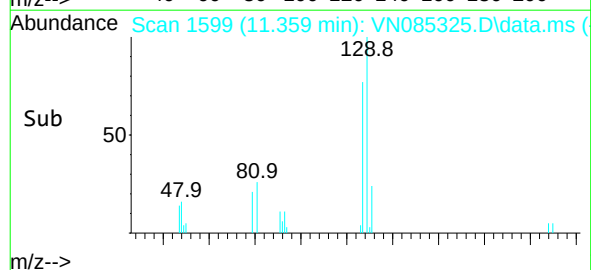
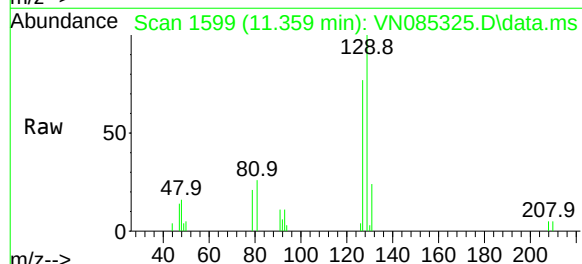
Acq: 27 Dec 2024 12:01

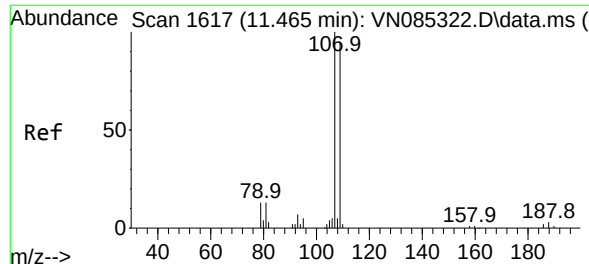
Tgt Ion:129 Resp: 9180

Ion Ratio Lower Upper

129 100

127 79.9 38.3 114.9





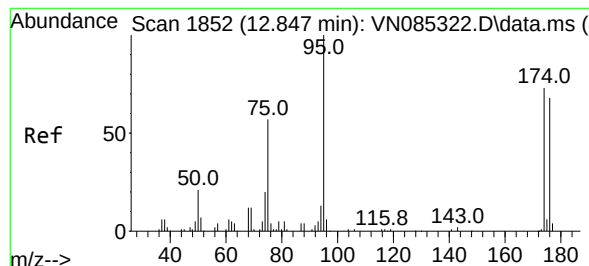
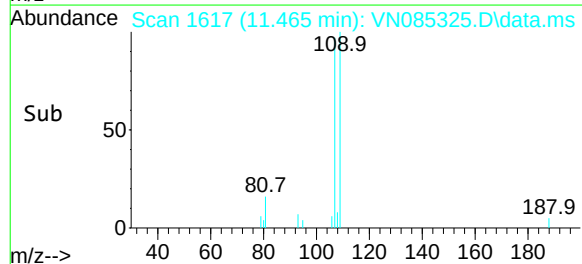
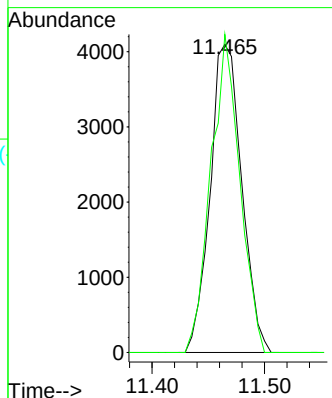
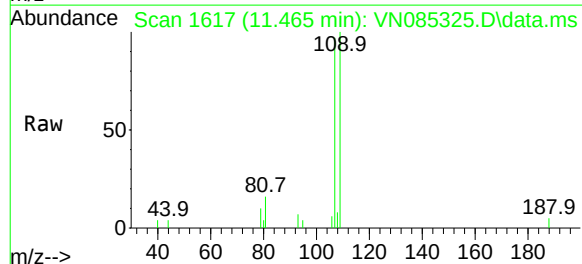
#61
1,2-Dibromoethane
Concen: 4.960 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085325.D
Acq: 27 Dec 2024 12:01

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 107 Resp: 8013
Ion Ratio Lower Upper
107 100
109 94.5 74.9 112.3

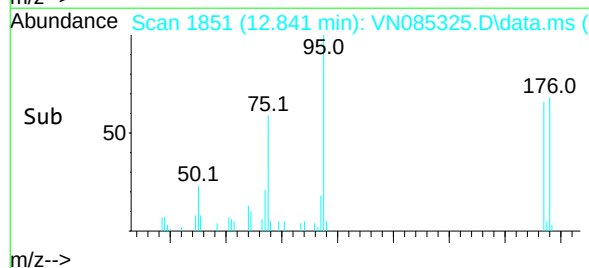
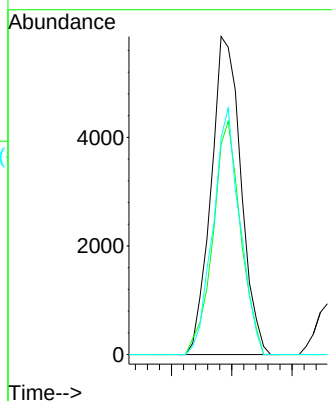
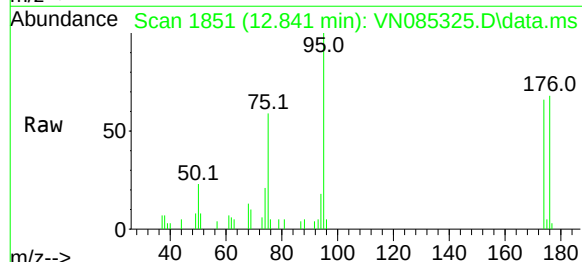
Manual Integrations
APPROVED

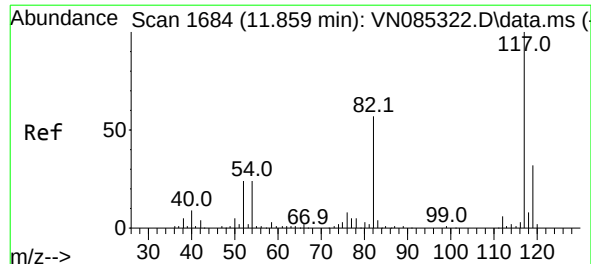
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#62
4-Bromofluorobenzene
Concen: 5.033 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. -0.006 min
Lab File: VN085325.D
Acq: 27 Dec 2024 12:01

Tgt Ion: 95 Resp: 10066
Ion Ratio Lower Upper
95 100
174 67.9 0.0 143.2
176 69.7 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1684

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:117 Resp: 226122

Ion Ratio Lower Upper

117 100

82 56.6 45.7 68.5

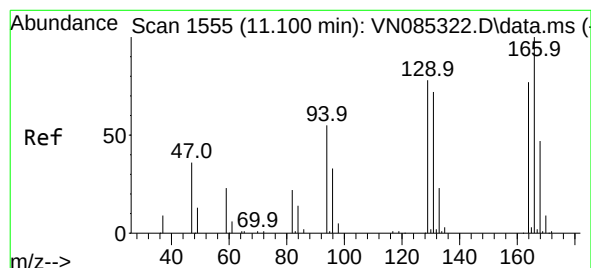
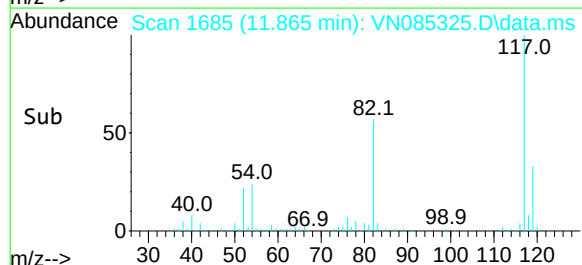
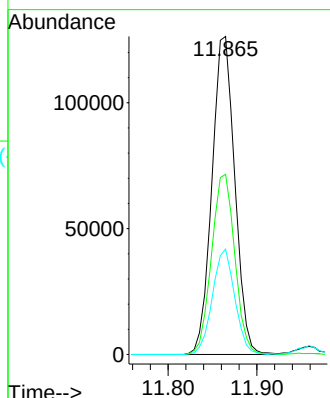
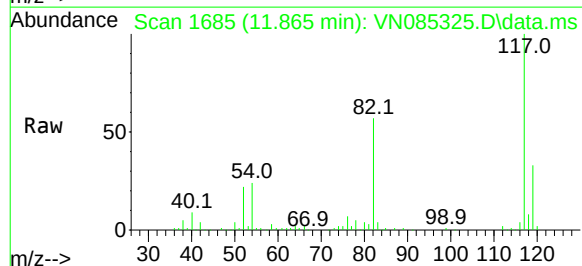
119 33.1 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#64

Tetrachloroethene

Concen: 5.095 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion:164 Resp: 7300

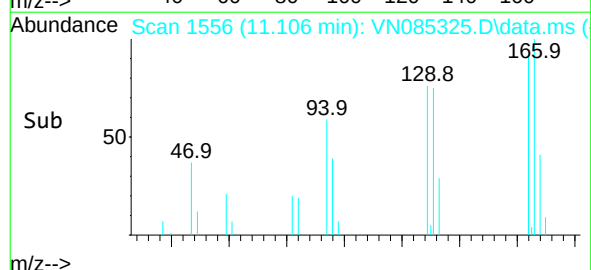
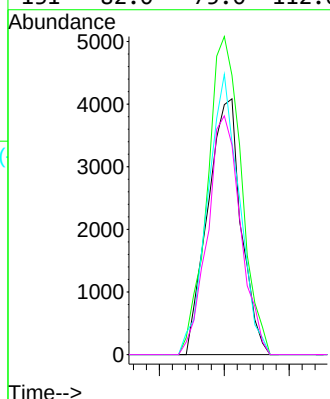
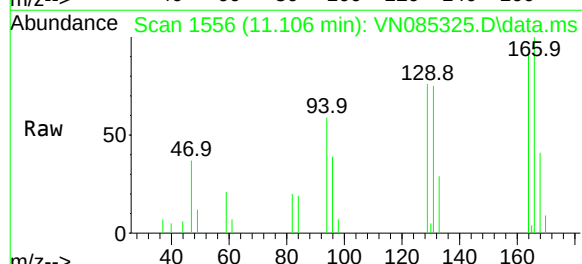
Ion Ratio Lower Upper

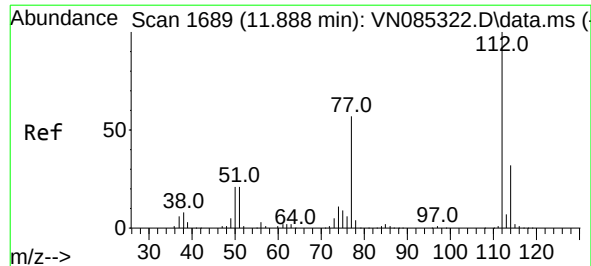
164 100

166 109.2 104.0 156.0

129 83.0 81.3 121.9

131 82.0 75.0 112.6





#65

Chlorobenzene

Concen: 4.940 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:112 Resp: 24138

Ion Ratio Lower Upper

112 100

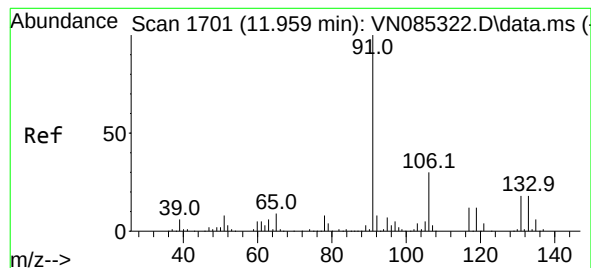
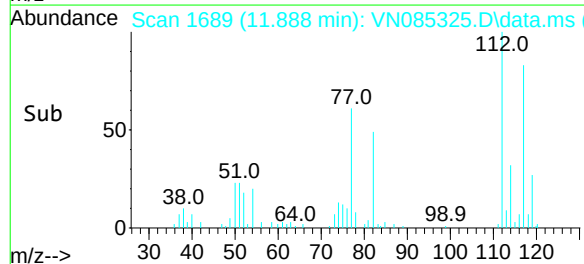
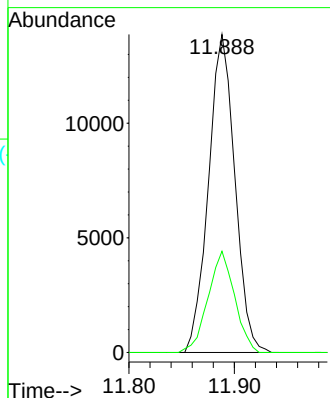
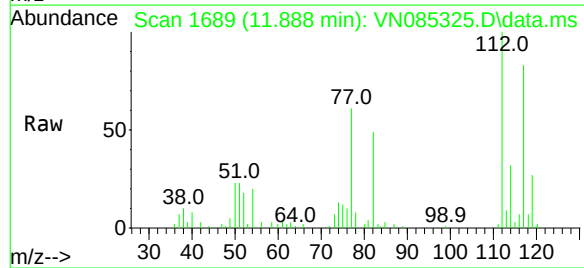
114 31.8 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 4.805 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

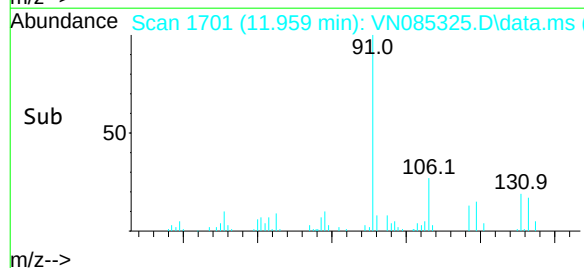
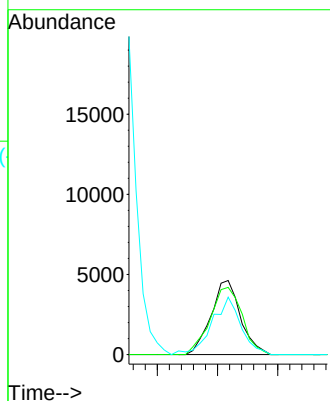
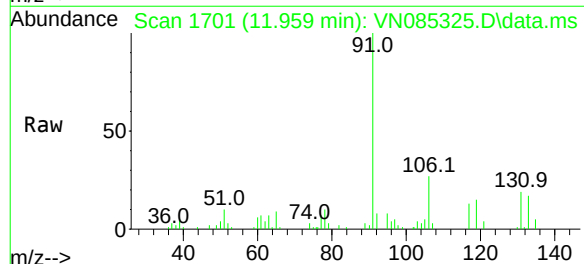
Tgt Ion:131 Resp: 7880

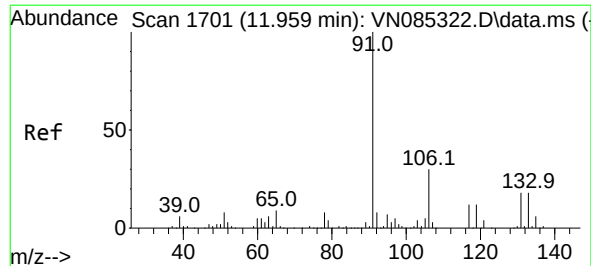
Ion Ratio Lower Upper

131 100

133 98.7 48.3 144.9

119 75.8 33.4 100.1





#67

Ethyl Benzene

Concen: 4.812 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 39102

Ion Ratio Lower Upper

91 100

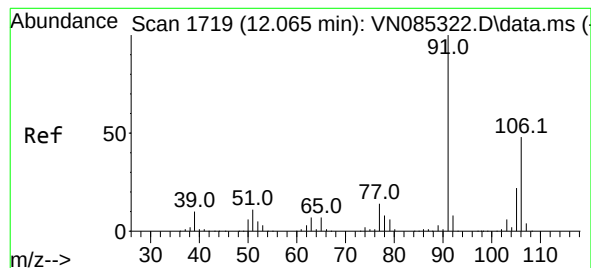
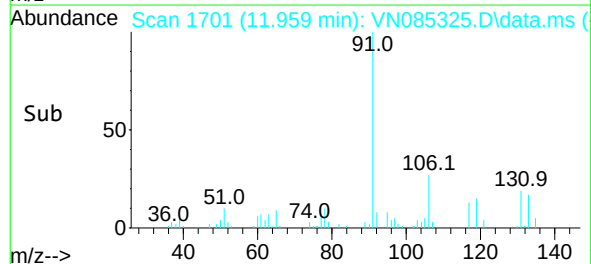
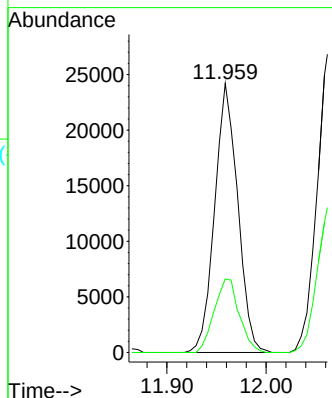
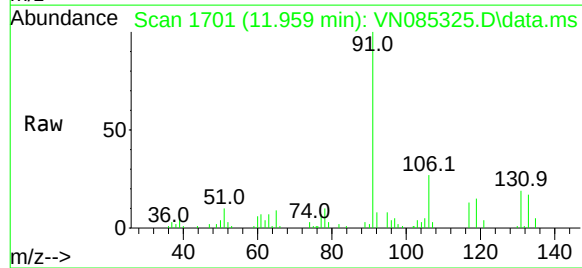
106 27.3 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#68

m/p-Xylenes

Concen: 9.786 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085325.D

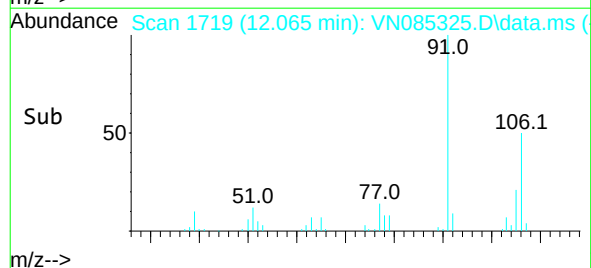
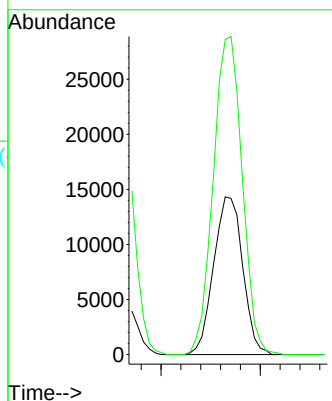
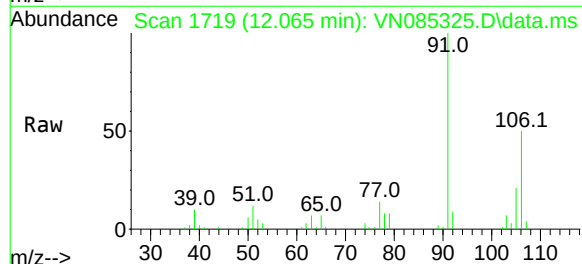
Acq: 27 Dec 2024 12:01

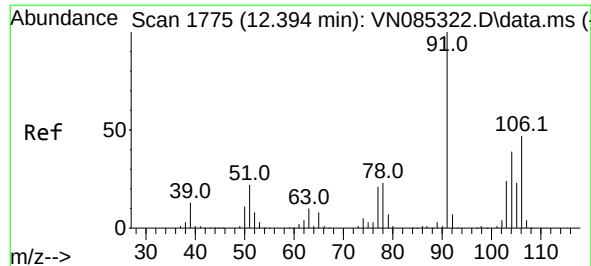
Tgt Ion:106 Resp: 29104

Ion Ratio Lower Upper

106 100

91 201.1 165.2 247.8





#69

o-Xylene

Concen: 4.734 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 13620

Ion Ratio Lower Upper

106 100

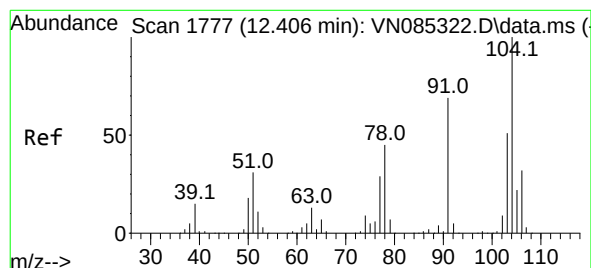
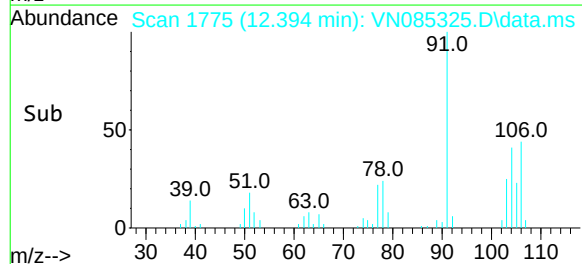
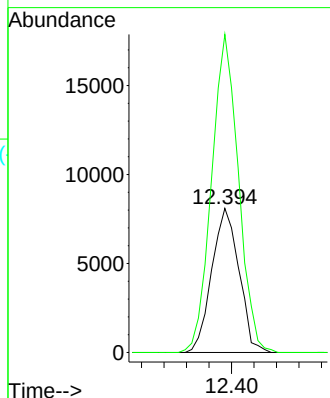
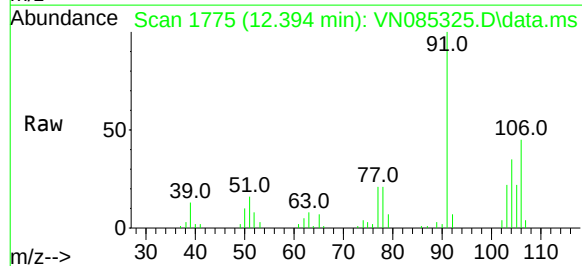
91 218.0 107.3 321.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#70

Styrene

Concen: 4.676 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

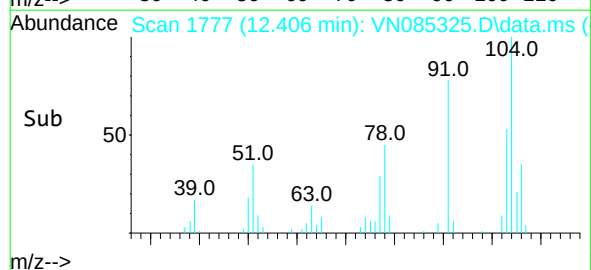
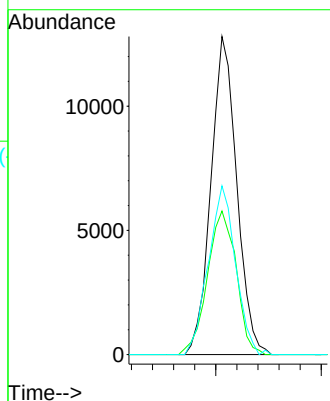
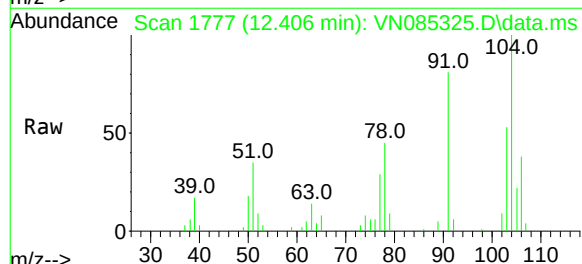
Tgt Ion:104 Resp: 21804

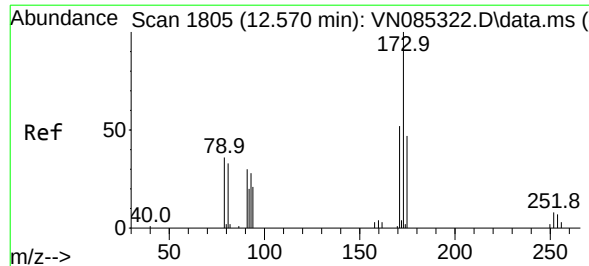
Ion Ratio Lower Upper

104 100

78 50.2 40.7 61.1

103 55.8 44.1 66.1





#71

Bromoform

Concen: 4.837 ug/l

RT: 12.571 min Scan# 1805

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

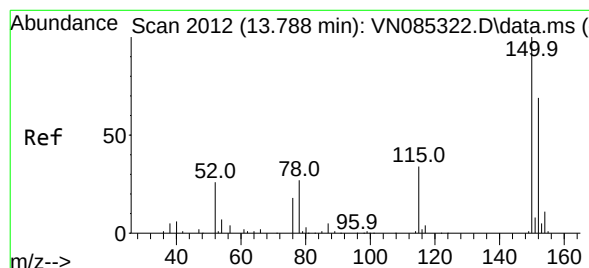
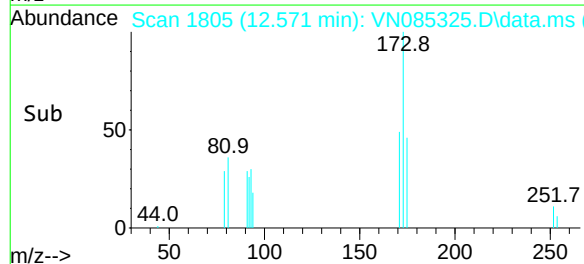
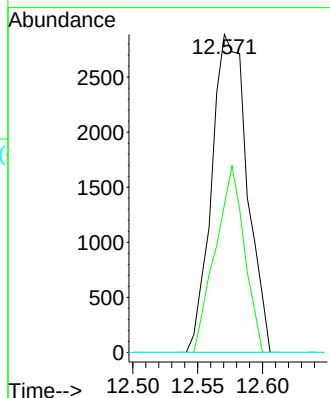
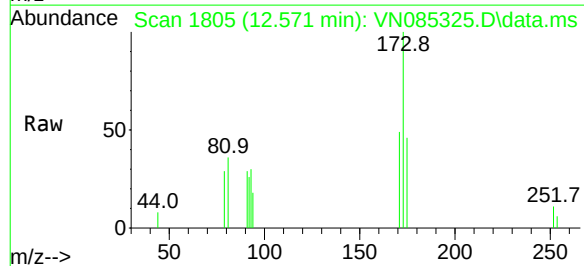
VSTDICC005

Tgt	Ion:173	Resp:	5494
Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.4	73.4
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

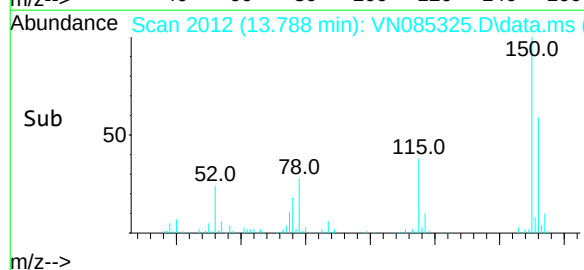
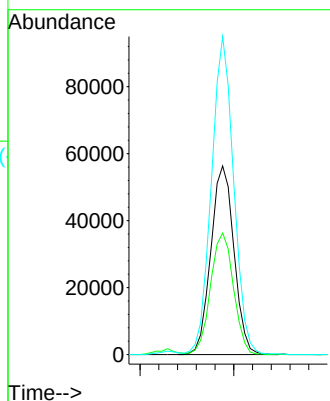
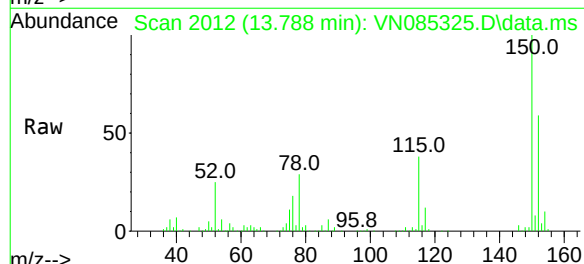
RT: 13.788 min Scan# 2012

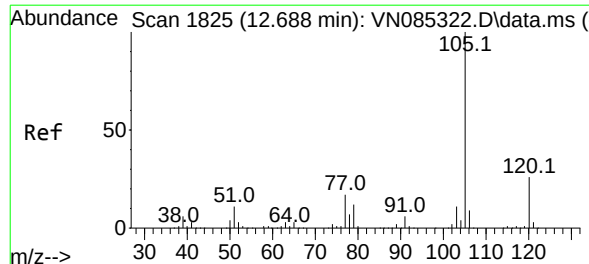
Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt	Ion:152	Resp:	96471
Ion	Ratio	Lower	Upper
152	100		
115	64.0	30.4	91.3
150	162.6	0.0	345.0





#73

Isopropylbenzene

Concen: 5.124 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 105 Resp: 35544

Ion Ratio Lower Upper

105 100

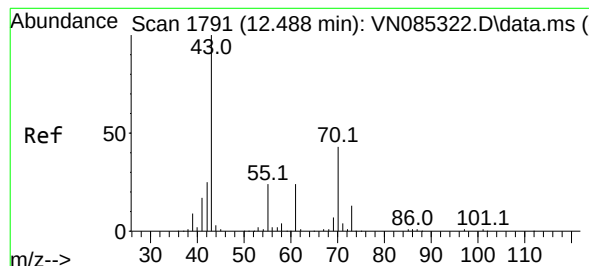
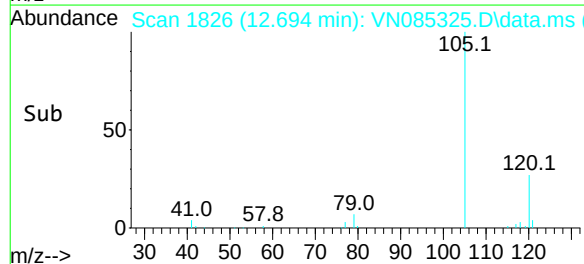
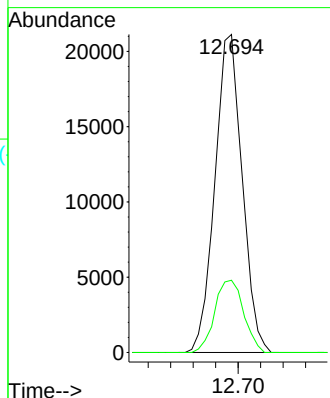
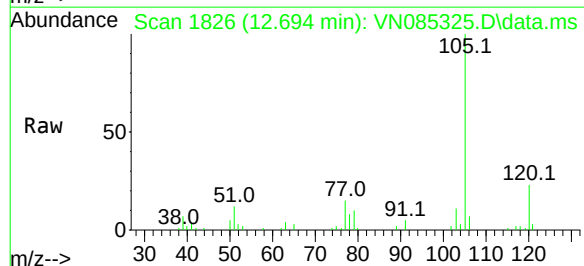
120 24.1 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#74

N-ethyl acetate

Concen: 4.651 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion: 43 Resp: 13811

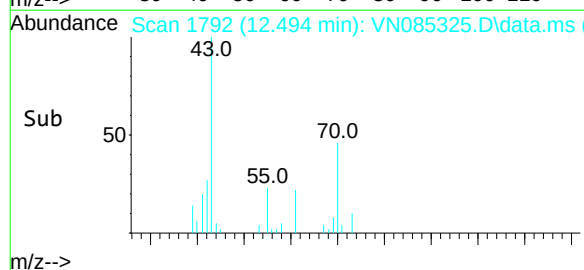
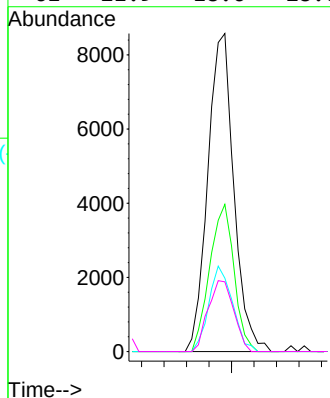
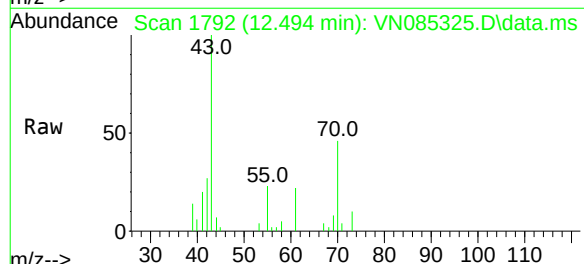
Ion Ratio Lower Upper

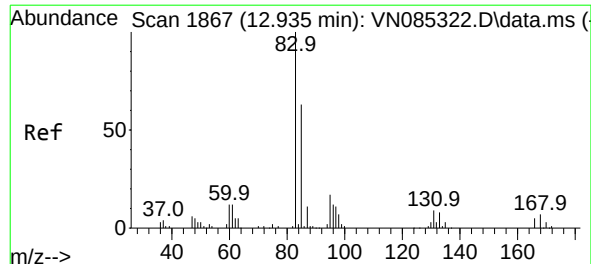
43 100

70 43.2 33.4 50.0

55 24.5 19.2 28.8

61 21.9 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 5.137 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

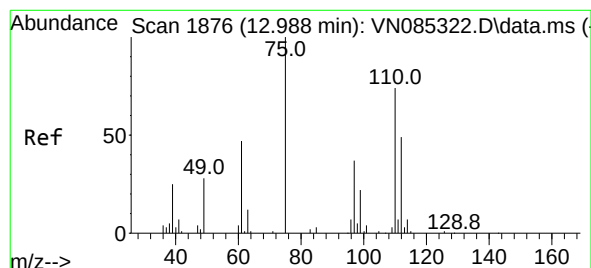
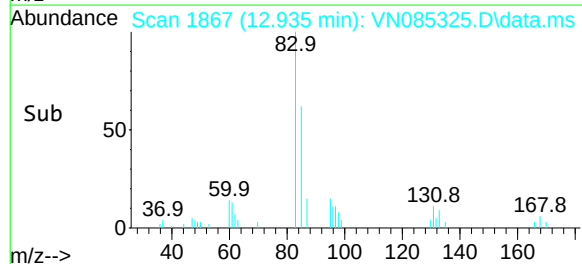
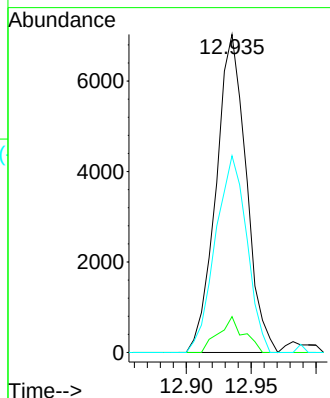
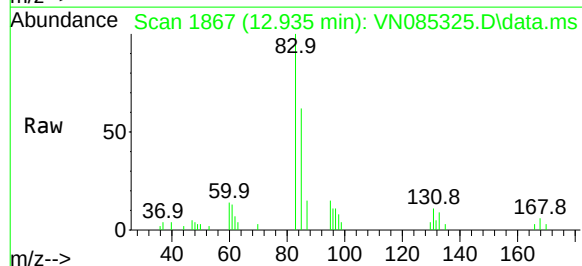
VSTDIC005

Tgt Ion:	83	Resp:	11349
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.8	14.4
85	64.6	32.6	98.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#76

1,2,3-Trichloropropane

Concen: 4.883 ug/l m

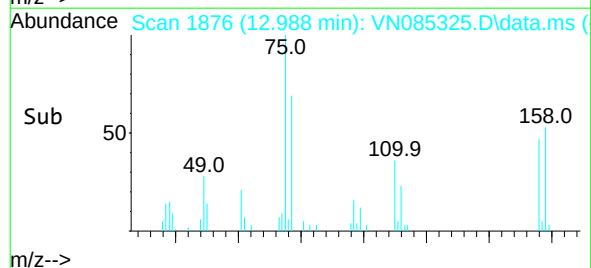
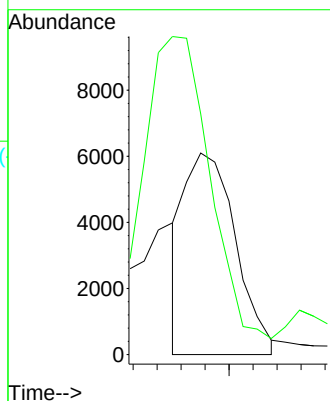
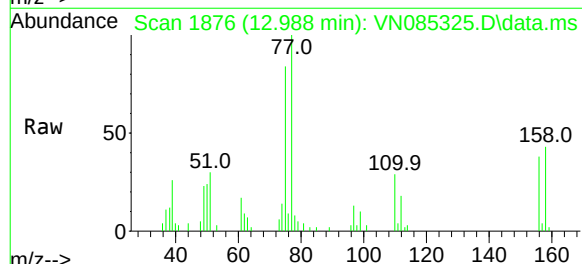
RT: 12.988 min Scan# 1876

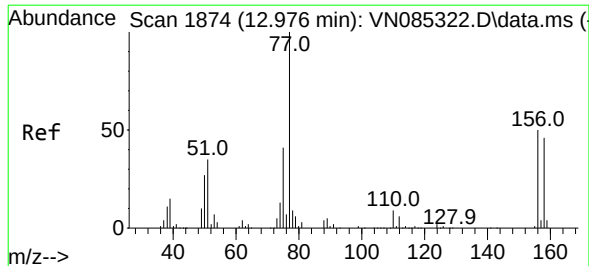
Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion:	75	Resp:	9049
Ion	Ratio	Lower	Upper
75	100		
77	218.9	98.1	294.3





#77

Bromobenzene

Concen: 4.971 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

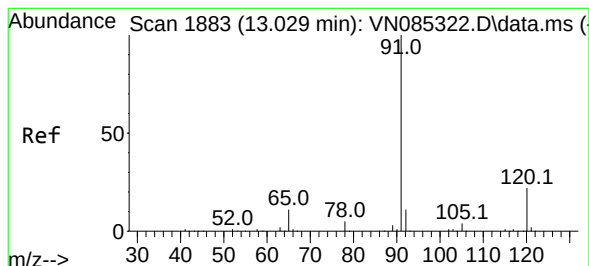
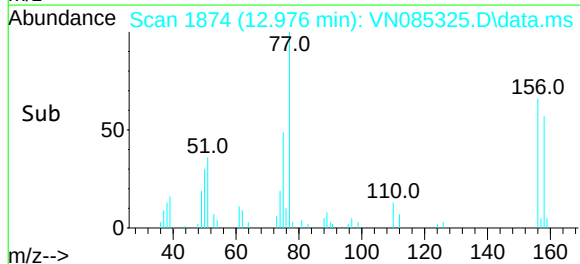
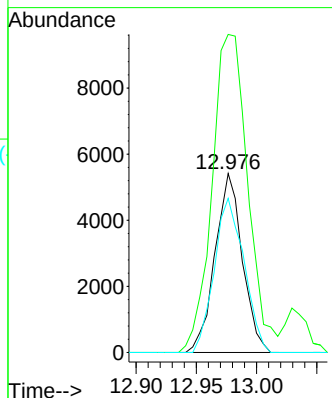
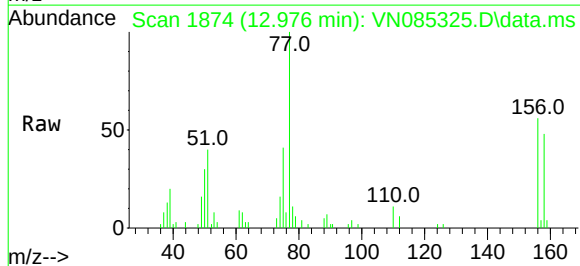
Tgt Ion:	156	Resp:	8544
Ion Ratio	Lower	Upper	
156	100		
77	231.9	114.0	342.0
158	93.9	47.6	142.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#78

n-propylbenzene

Concen: 4.722 ug/l

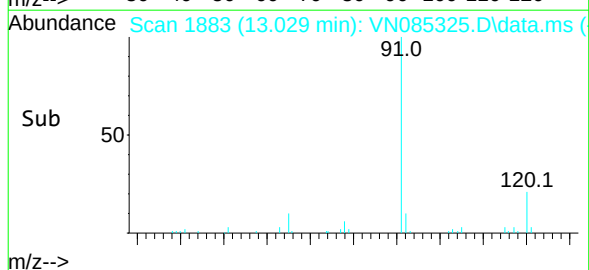
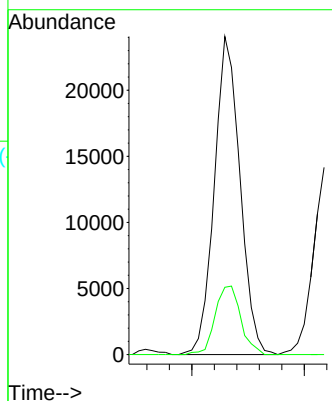
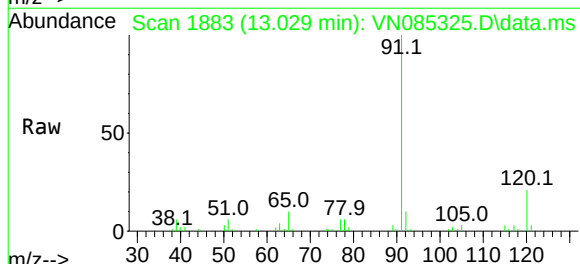
RT: 13.029 min Scan# 1883

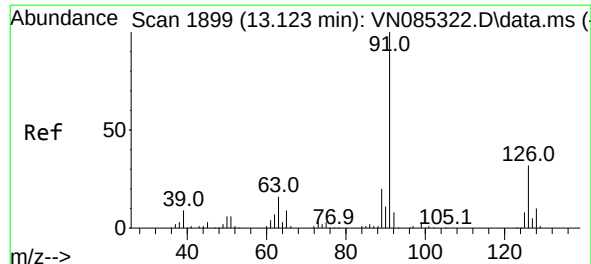
Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion:	91	Resp:	38185
Ion Ratio	Lower	Upper	
91	100		
120	21.5	10.9	32.9





#79

2-Chlorotoluene

Concen: 5.164 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion: 91 Resp: 26279

Ion Ratio Lower Upper

91 100

126 31.7 16.0 48.0

Instrument :

MSVOA_N

ClientSampleId :

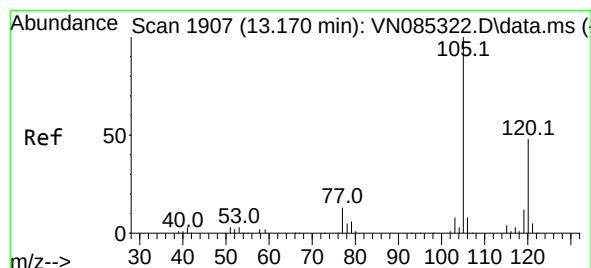
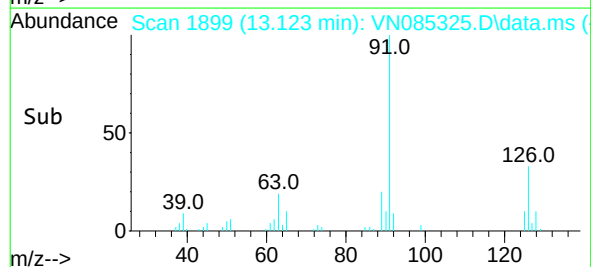
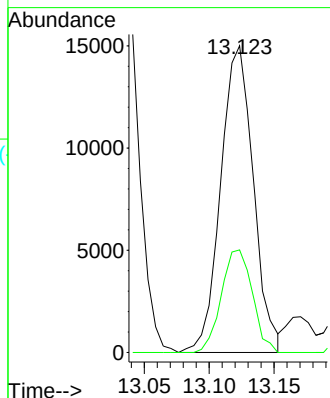
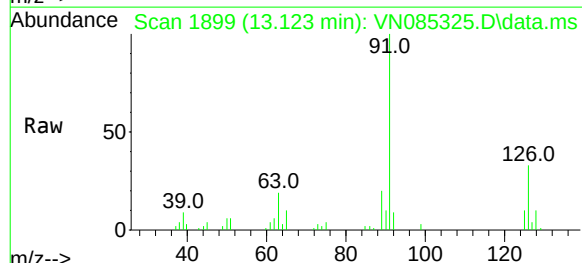
VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#80

1,3,5-Trimethylbenzene

Concen: 4.952 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085325.D

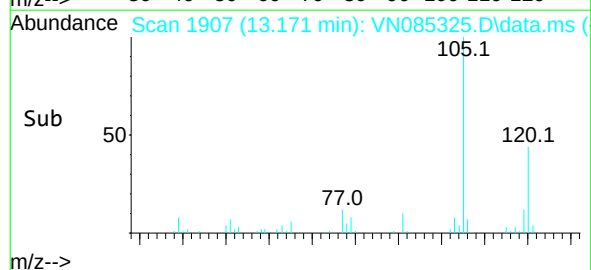
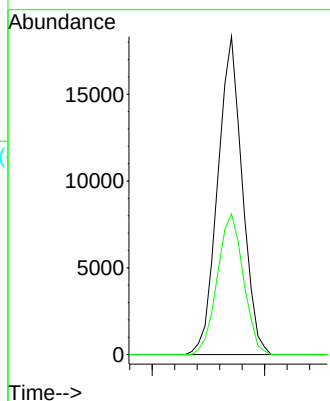
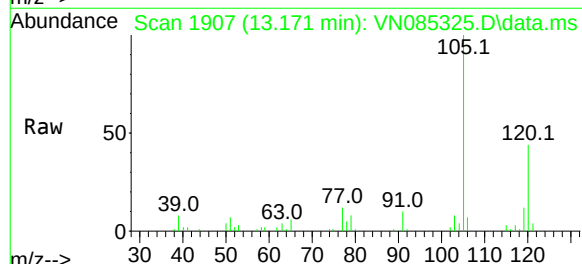
Acq: 27 Dec 2024 12:01

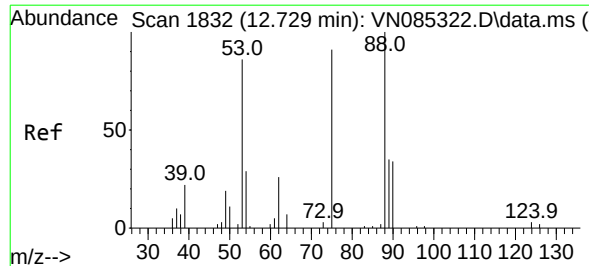
Tgt Ion:105 Resp: 27787

Ion Ratio Lower Upper

105 100

120 46.9 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 4.391 ug/l

RT: 12.729 min Scan# 1832

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

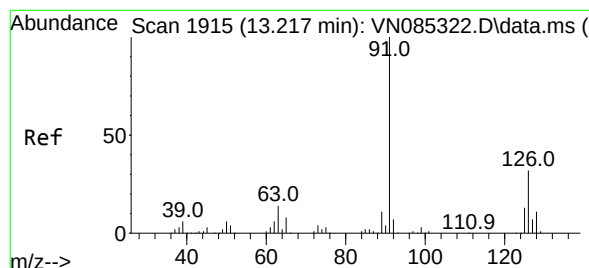
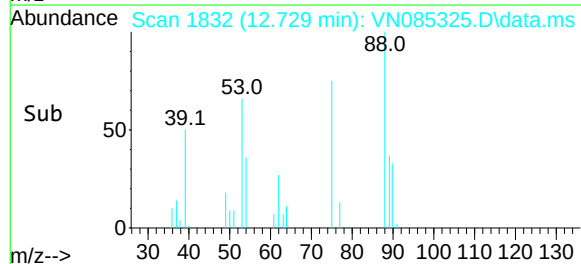
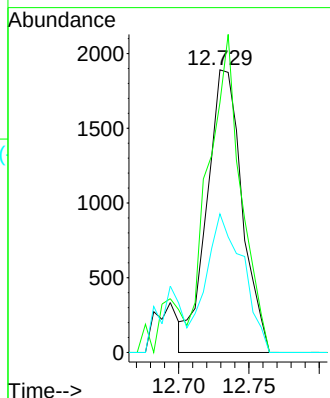
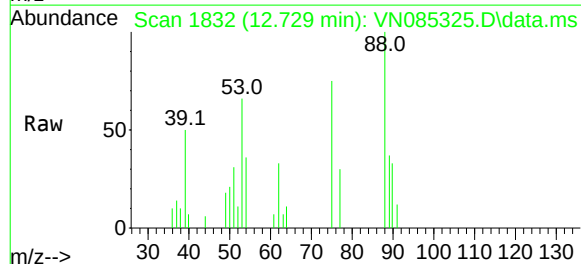
VSTDIC005

Tgt	Ion	75	Resp:	3288
Ion	Ratio	Lower	Upper	
75	100			
53	103.2	80.0	120.0	
89	51.5	35.8	53.8	

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#82

4-Chlorotoluene

Concen: 5.016 ug/l

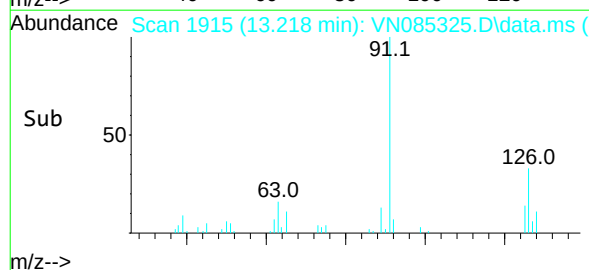
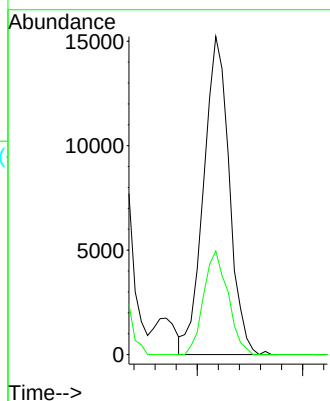
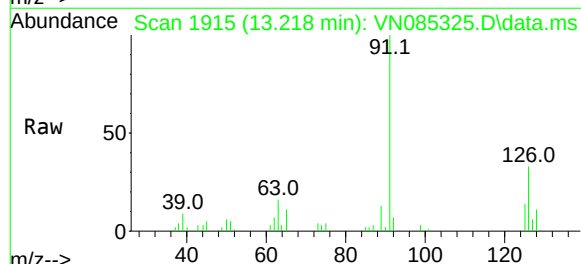
RT: 13.218 min Scan# 1915

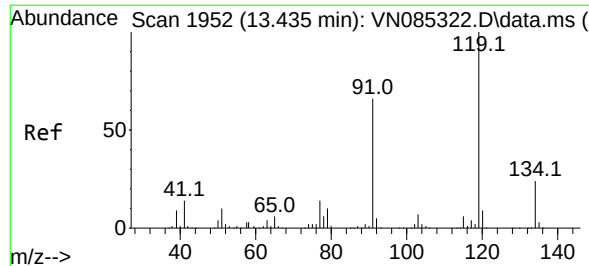
Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt	Ion	91	Resp:	25709
Ion	Ratio	Lower	Upper	
91	100			
126	31.0	16.4	49.4	





#83

tert-Butylbenzene

Concen: 4.969 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:119 Resp: 24152

Ion Ratio Lower Upper

119 100

91 68.4 33.6 100.8

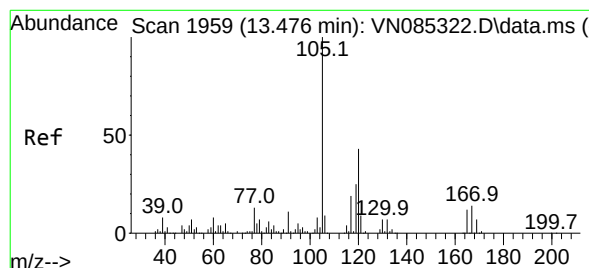
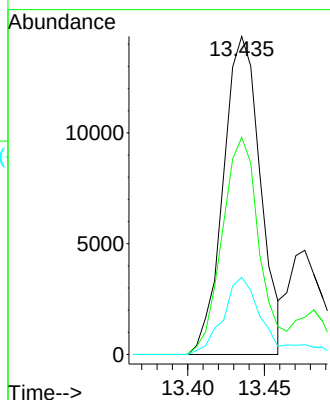
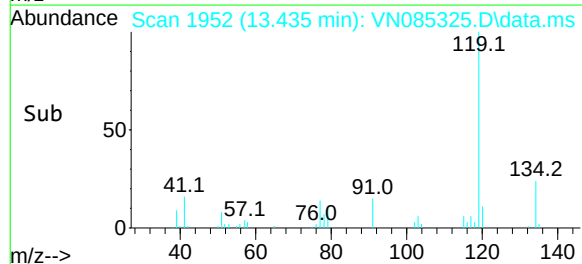
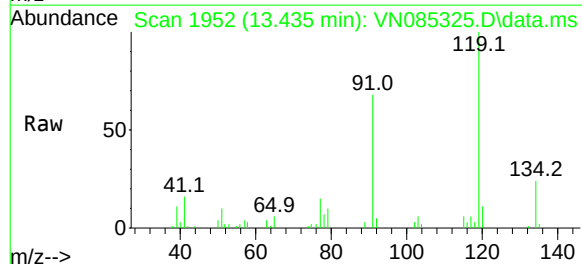
134 24.7 13.3 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#84

1,2,4-Trimethylbenzene

Concen: 4.696 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085325.D

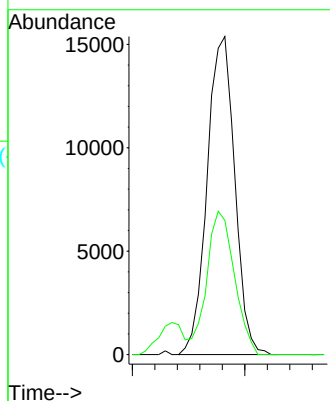
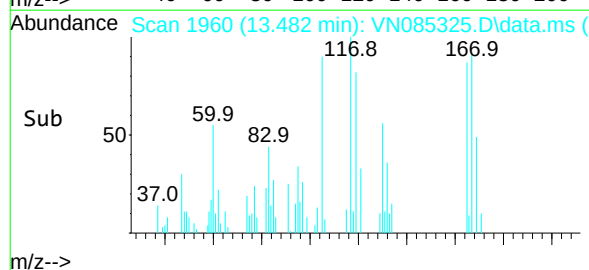
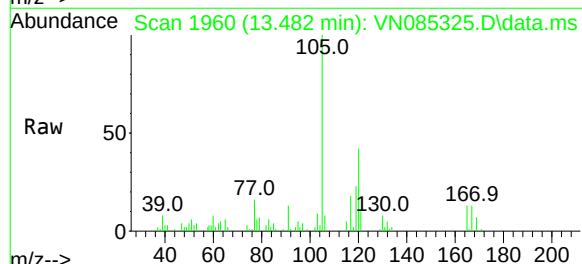
Acq: 27 Dec 2024 12:01

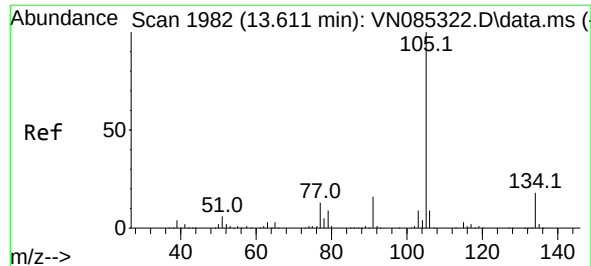
Tgt Ion:105 Resp: 26238

Ion Ratio Lower Upper

105 100

120 45.6 21.7 65.1





#85

sec-Butylbenzene

Concen: 4.923 ug/l

RT: 13.612 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:105 Resp: 33215

Ion Ratio Lower Upper

105 100

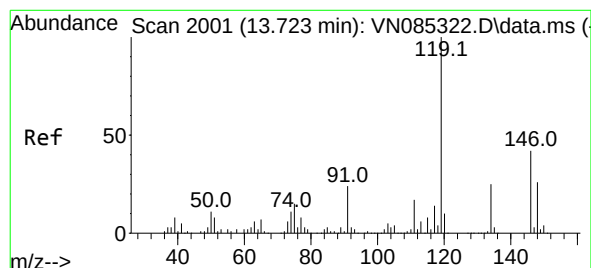
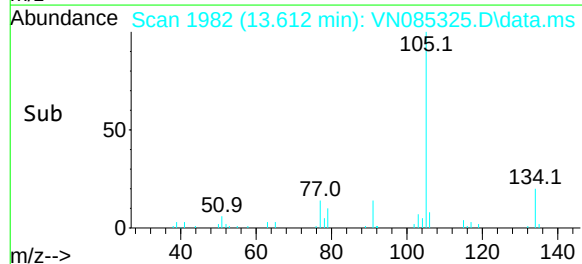
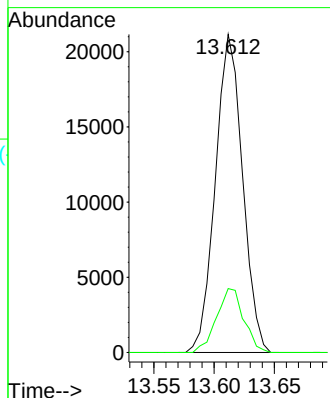
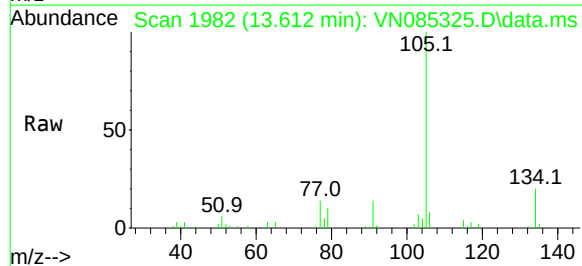
134 20.1 9.4 28.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#86

p-Isopropyltoluene

Concen: 4.594 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

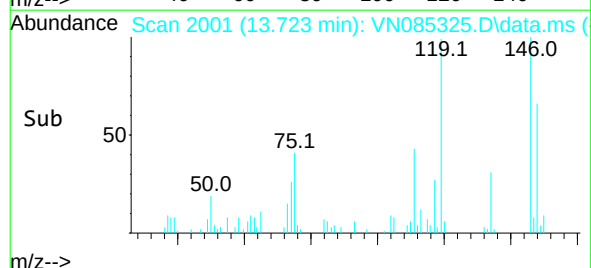
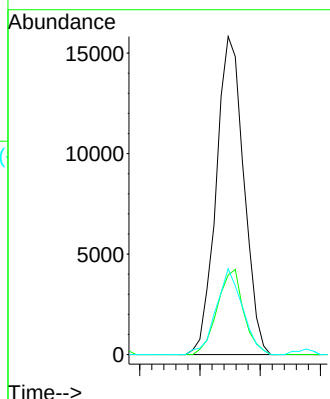
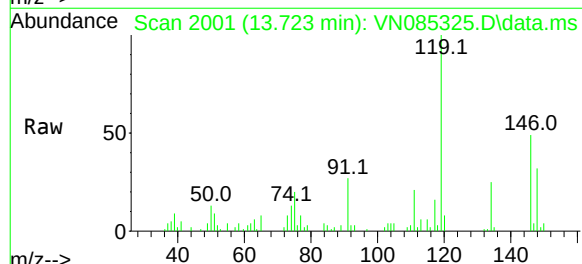
Tgt Ion:119 Resp: 25238

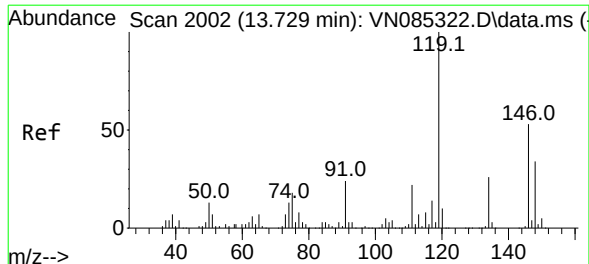
Ion Ratio Lower Upper

119 100

134 25.5 12.5 37.5

91 25.8 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 5.124 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085325.D

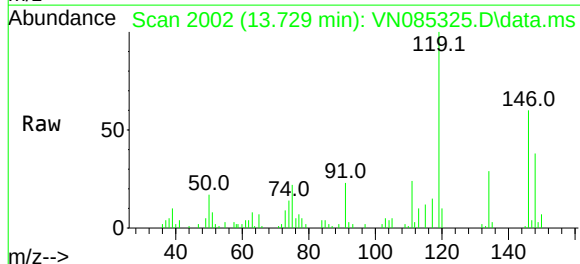
Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

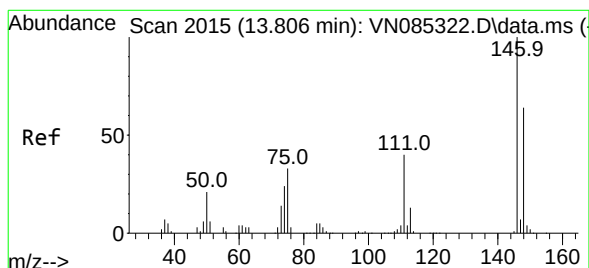
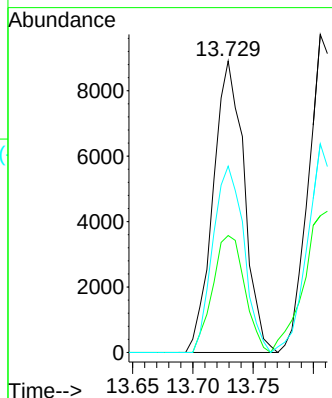
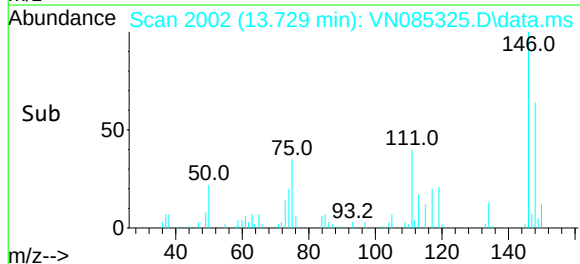
VSTDIC005



Tgt Ion:	146	Resp:	15966
Ion Ratio	Lower	Upper	
146	100		
111	41.3	21.3	63.9
148	63.8	31.5	94.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#88

1,4-Dichlorobenzene

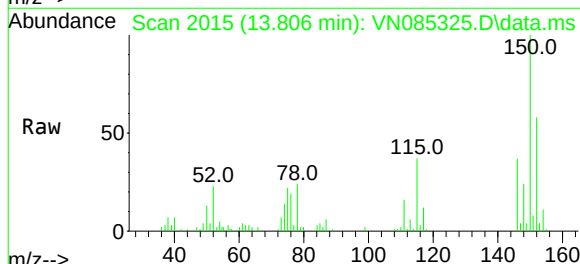
Concen: 5.022 ug/l

RT: 13.806 min Scan# 2015

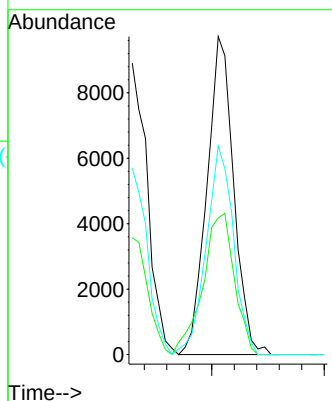
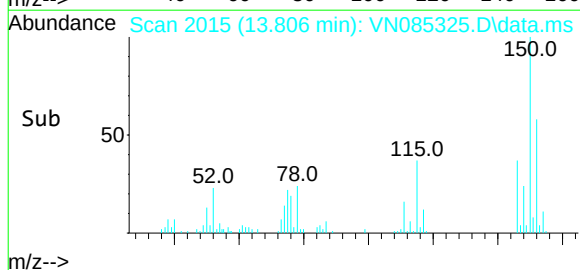
Delta R.T. 0.000 min

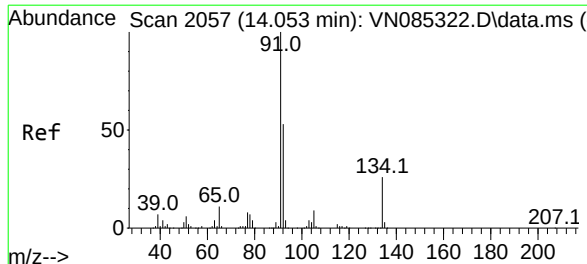
Lab File: VN085325.D

Acq: 27 Dec 2024 12:01



Tgt Ion:	146	Resp:	16072
Ion Ratio	Lower	Upper	
146	100		
111	52.4	20.8	62.5
148	66.7	31.7	95.1





#89

n-Butylbenzene

Concen: 4.616 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

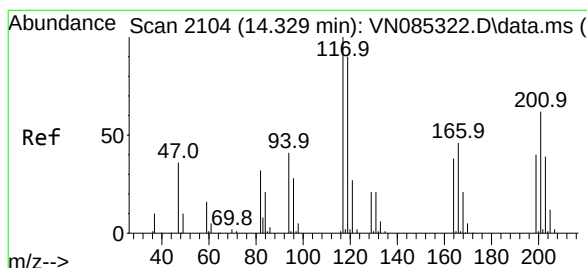
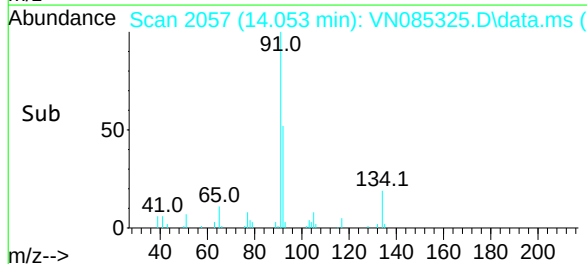
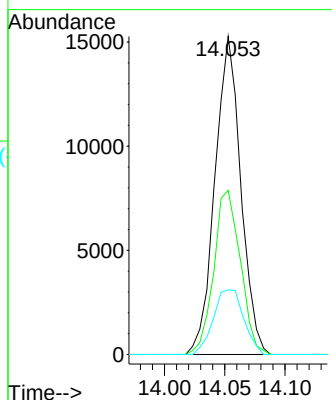
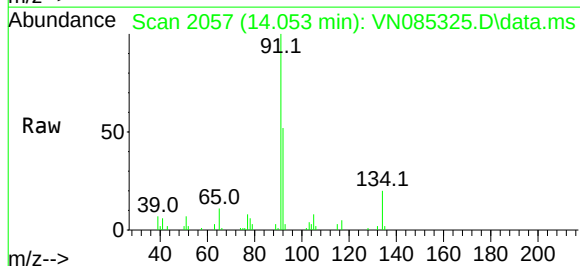
VSTDICC005

Tgt Ion:	91	Resp:	22807
Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.0	78.0
134	23.9	12.1	36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#90

Hexachloroethane

Concen: 4.881 ug/l

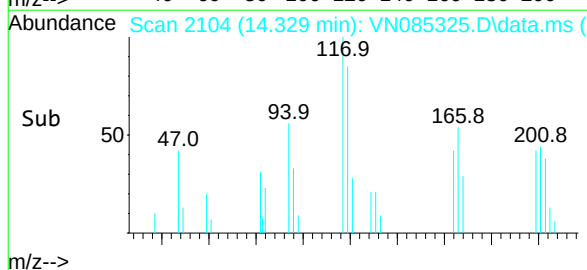
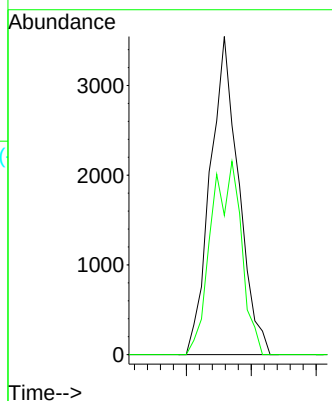
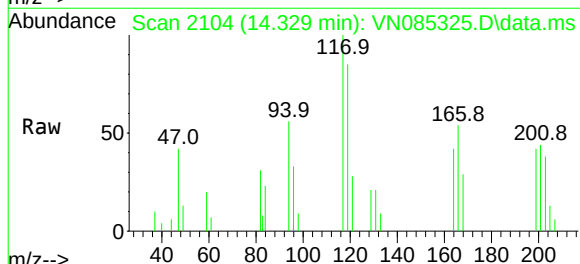
RT: 14.329 min Scan# 2104

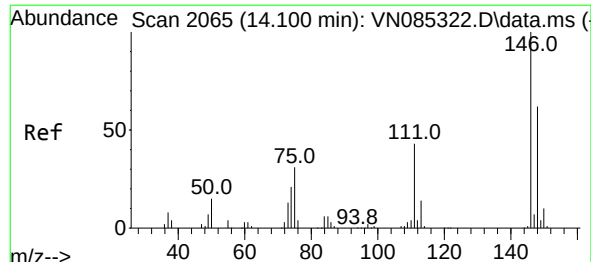
Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion:	117	Resp:	5398
Ion	Ratio	Lower	Upper
117	100		
201	64.9	30.7	92.1





#91

1,2-Dichlorobenzene

Concen: 5.014 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

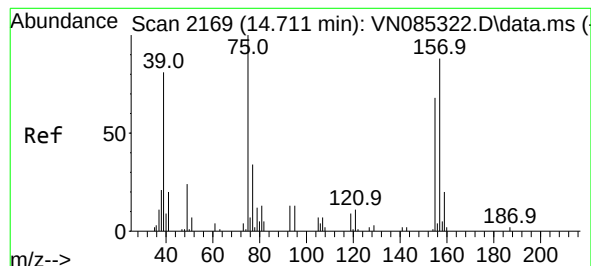
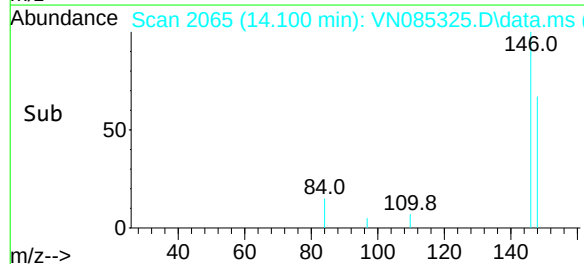
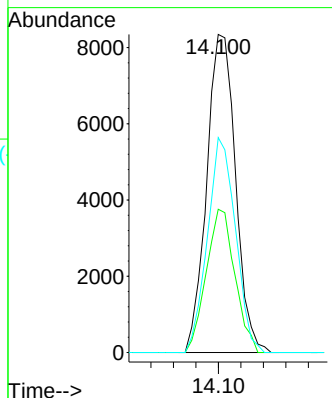
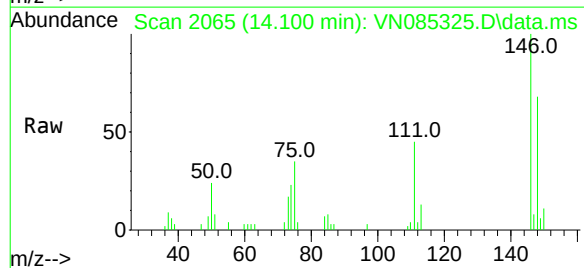
Tgt Ion:	146	Resp:	14881
Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.8	65.3
148	65.7	31.4	94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.206 ug/l

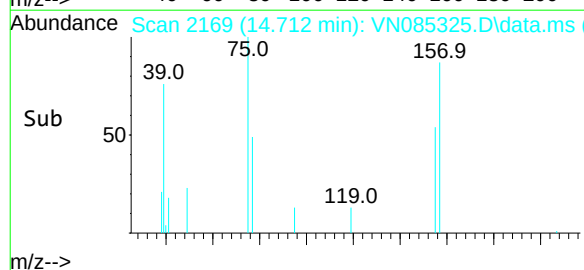
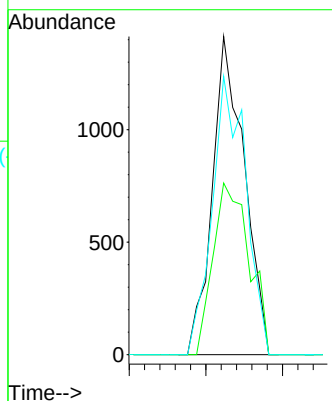
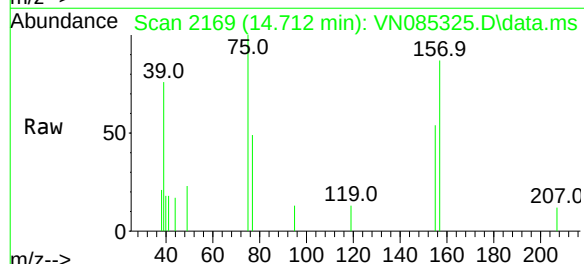
RT: 14.712 min Scan# 2169

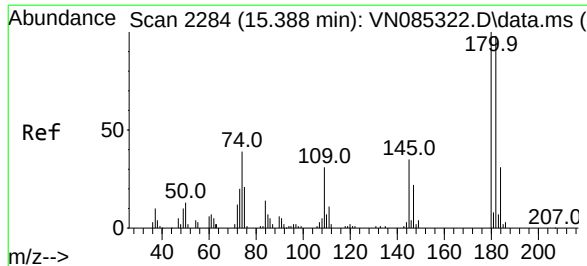
Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion:	75	Resp:	2047
Ion	Ratio	Lower	Upper
75	100		
155	60.8	35.6	106.9
157	92.3	47.0	141.0





#93

1,2,4-Trichlorobenzene

Concen: 4.894 ug/l

RT: 15.382 min Scan# 2284

Delta R.T. -0.006 min

Lab File: VN085325.D

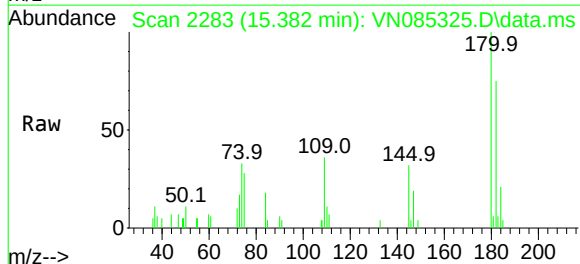
Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

ClientSampleId :

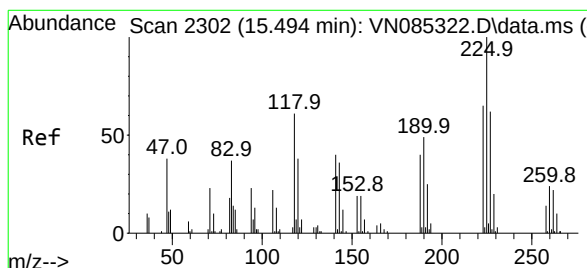
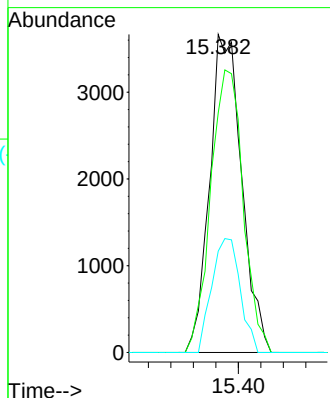
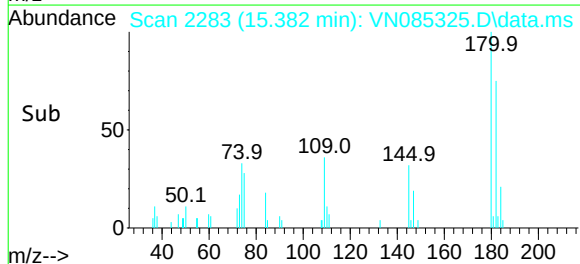
VSTDIC005



Tgt Ion:	180	Resp:	7250
Ion	Ratio	Lower	Upper
180	100		
182	90.0	47.2	141.6
145	31.7	16.6	49.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#94

Hexachlorobutadiene

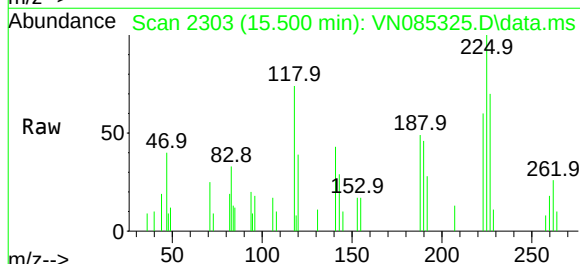
Concen: 5.402 ug/l

RT: 15.500 min Scan# 2303

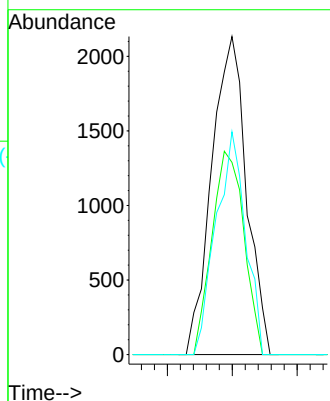
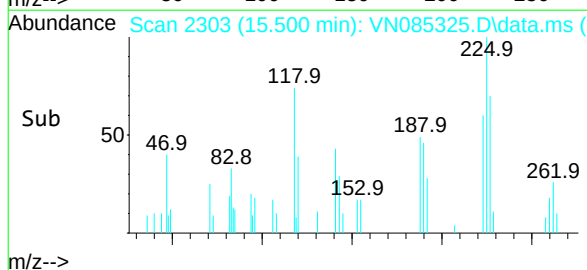
Delta R.T. 0.006 min

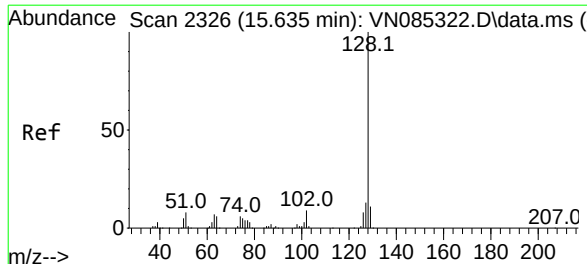
Lab File: VN085325.D

Acq: 27 Dec 2024 12:01



Tgt Ion:	225	Resp:	3976
Ion	Ratio	Lower	Upper
225	100		
223	58.8	31.6	94.7
227	59.1	30.3	91.0





#95

Naphthalene

Concen: 4.572 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Instrument :

MSVOA_N

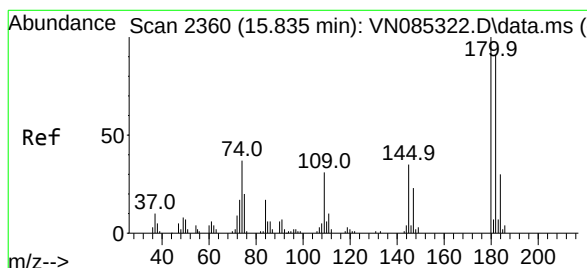
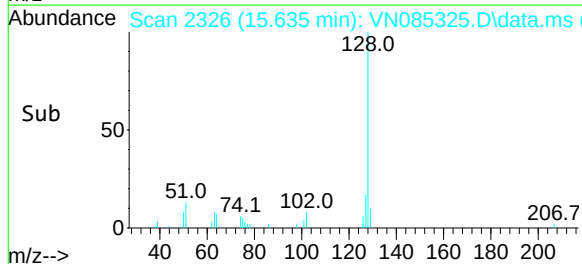
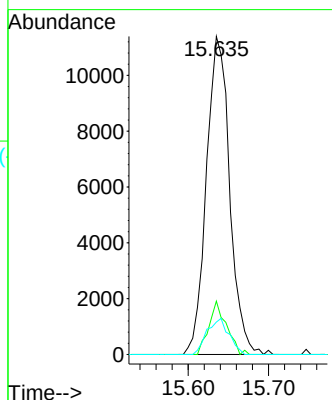
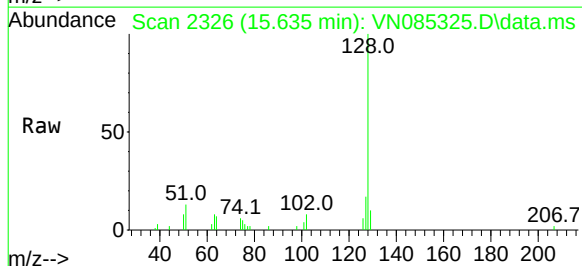
ClientSampleId :

VSTDIC005

Tgt Ion:	128	Resp:	22967
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.6	16.0
129	10.7	8.5	12.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#96

1,2,3-Trichlorobenzene

Concen: 5.131 ug/l

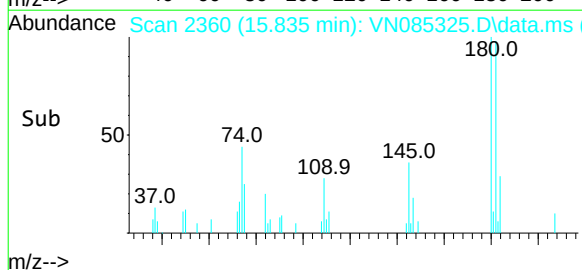
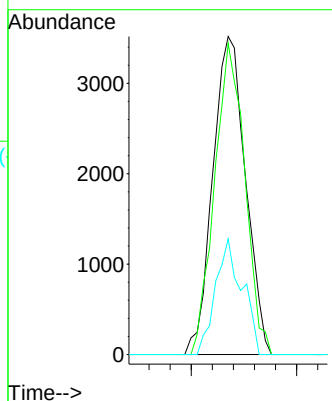
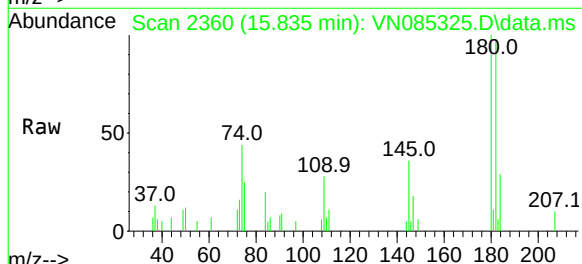
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085325.D

Acq: 27 Dec 2024 12:01

Tgt Ion:	180	Resp:	7594
Ion	Ratio	Lower	Upper
180	100		
182	90.4	46.8	140.4
145	29.6	17.2	51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085326.D
 Acq On : 27 Dec 2024 12:48
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:10:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	133455	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	246776	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	207418	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	81571	50.000	ug/l	0.00

System Monitoring Compounds

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

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.130	85	1733	0.960	ug/l #	70
3) Chloromethane	2.359	50	2616	1.290	ug/l	92
4) Vinyl Chloride	2.512	62	2294	1.069	ug/l	93
6) Chloroethane	3.130	64	1394	1.025	ug/l	91
7) Trichlorofluoromethane	3.500	101	2816	0.999	ug/l	93
8) Diethyl Ether	3.971	74	756	0.810	ug/l	69
9) 1,1,2-Trichlorotrifluo...	4.383	101	1581m	0.985	ug/l	
12) 1,1-Dichloroethene	4.341	96	1405	0.947	ug/l #	78
14) Allyl chloride	5.030	41	2441	1.028	ug/l #	68
15) Acrylonitrile	5.712	53	3700m	4.932	ug/l	
16) Acetone	4.430	43	3332	5.323	ug/l #	58
17) Carbon Disulfide	4.718	76	5381	1.193	ug/l	96
18) Methyl Acetate	5.030	43	1947	1.016	ug/l #	59
19) Methyl tert-butyl Ether	5.800	73	4219	0.875	ug/l #	88
20) Methylene Chloride	5.271	84	1722	1.023	ug/l #	81
21) trans-1,2-Dichloroethene	5.794	96	1530	0.988	ug/l #	85
22) Diisopropyl ether	6.677	45	4276	0.836	ug/l #	93
23) Vinyl Acetate	6.600	43	15012	4.083	ug/l	100
24) 1,1-Dichloroethane	6.559	63	3050	0.990	ug/l #	82
25) 2-Butanone	7.482	43	4530	4.665	ug/l	97
26) 2,2-Dichloropropane	7.488	77	2343	0.868	ug/l #	67
27) cis-1,2-Dichloroethene	7.482	96	1732	0.953	ug/l	99
28) Bromochloromethane	7.800	49	1221m	0.853	ug/l	
29) Tetrahydrofuran	7.835	42	2727	4.360	ug/l	99
30) Chloroform	7.953	83	3291	1.044	ug/l #	74
32) 1,1,1-Trichloroethane	8.165	97	2817	1.001	ug/l #	50
36) 1,1-Dichloropropene	8.371	75	2094	0.929	ug/l #	74
37) Ethyl Acetate	7.559	43	2400	1.071	ug/l #	70
38) Carbon Tetrachloride	8.359	117	2232	0.908	ug/l #	93
39) Methylcyclohexane	9.600	83	1910	0.817	ug/l	90
40) Benzene	8.606	78	6282	0.922	ug/l	99
41) Methacrylonitrile	7.788	41	903m	0.787	ug/l	
42) 1,2-Dichloroethane	8.665	62	2346	0.960	ug/l #	76
43) Isopropyl Acetate	8.694	43	3615	0.980	ug/l #	84
44) Trichloroethene	9.347	130	1696	1.051	ug/l	89
45) 1,2-Dichloropropane	9.623	63	1658	0.958	ug/l #	81

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085326.D
 Acq On : 27 Dec 2024 12:48
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:10:49 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M

Quant Title : SW846 8260

QLast Update : Sat Dec 28 01:10:11 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.712	93	1092	0.908	ug/l	96
47) Bromodichloromethane	9.882	83	2265	0.906	ug/l #	87
48) Methyl methacrylate	9.682	41	1319	0.824	ug/l #	88
49) 1,4-Dioxane	9.688	88	300m	12.421	ug/l	
51) 4-Methyl-2-Pentanone	10.441	43	8337	4.021	ug/l	100
52) Toluene	10.629	92	3329	0.820	ug/l	95
53) t-1,3-Dichloropropene	10.829	75	1964	0.799	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	2254	0.848	ug/l #	82
55) 1,1,2-Trichloroethane	11.012	97	1466	0.957	ug/l	91
56) Ethyl methacrylate	10.876	69	1600	0.717	ug/l	100
57) 1,3-Dichloropropane	11.165	76	2306	0.858	ug/l #	84
58) 2-Chloroethyl Vinyl ether	10.165	63	3585	3.321	ug/l	91
59) 2-Hexanone	11.194	43	5577	3.877	ug/l	89
60) Dibromochloromethane	11.353	129	1329	0.770	ug/l	72
61) 1,2-Dibromoethane	11.470	107	1298	0.856	ug/l	100
64) Tetrachloroethene	11.100	164	1118	0.851	ug/l #	83
65) Chlorobenzene	11.882	112	4664	1.041	ug/l #	81
66) 1,1,1,2-Tetrachloroethane	11.959	131	1447	0.962	ug/l #	59
67) Ethyl Benzene	11.959	91	6412	0.860	ug/l	92
68) m/p-Xylenes	12.064	106	3925	1.439	ug/l	89
69) o-Xylene	12.394	106	2091	0.792	ug/l	94
70) Styrene	12.417	104	3030	0.708	ug/l	97
71) Bromoform	12.570	173	859	0.824	ug/l #	99
73) Isopropylbenzene	12.694	105	4362	0.744	ug/l	95
74) N-amyl acetate	12.494	43	2086	0.831	ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.941	83	1959	1.049	ug/l #	86
76) 1,2,3-Trichloropropane	12.988	75	1809m	1.154	ug/l	
77) Bromobenzene	12.976	156	1544	1.062	ug/l	95
78) n-propylbenzene	13.029	91	5290	0.774	ug/l	99
79) 2-Chlorotoluene	13.123	91	3518	0.818	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	3380	0.712	ug/l	91
82) 4-Chlorotoluene	13.217	91	3768	0.869	ug/l	92
83) tert-Butylbenzene	13.441	119	3239	0.788	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	3339	0.707	ug/l	99
85) sec-Butylbenzene	13.611	105	4066	0.713	ug/l	98
86) p-Isopropyltoluene	13.723	119	2921	0.798	ug/l	93
87) 1,3-Dichlorobenzene	13.729	146	2485	0.943	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	2825m	1.044	ug/l	
89) n-Butylbenzene	14.053	91	3482	0.833	ug/l	91
90) Hexachloroethane	14.329	117	831	0.889	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	2255	0.899	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.711	75	309	0.929	ug/l #	73
93) 1,2,4-Trichlorobenzene	15.388	180	1193	0.952	ug/l	91
94) Hexachlorobutadiene	15.500	225	681	1.094	ug/l	75
95) Naphthalene	15.641	128	4815	1.134	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.841	180	1188	0.949	ug/l #	89

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

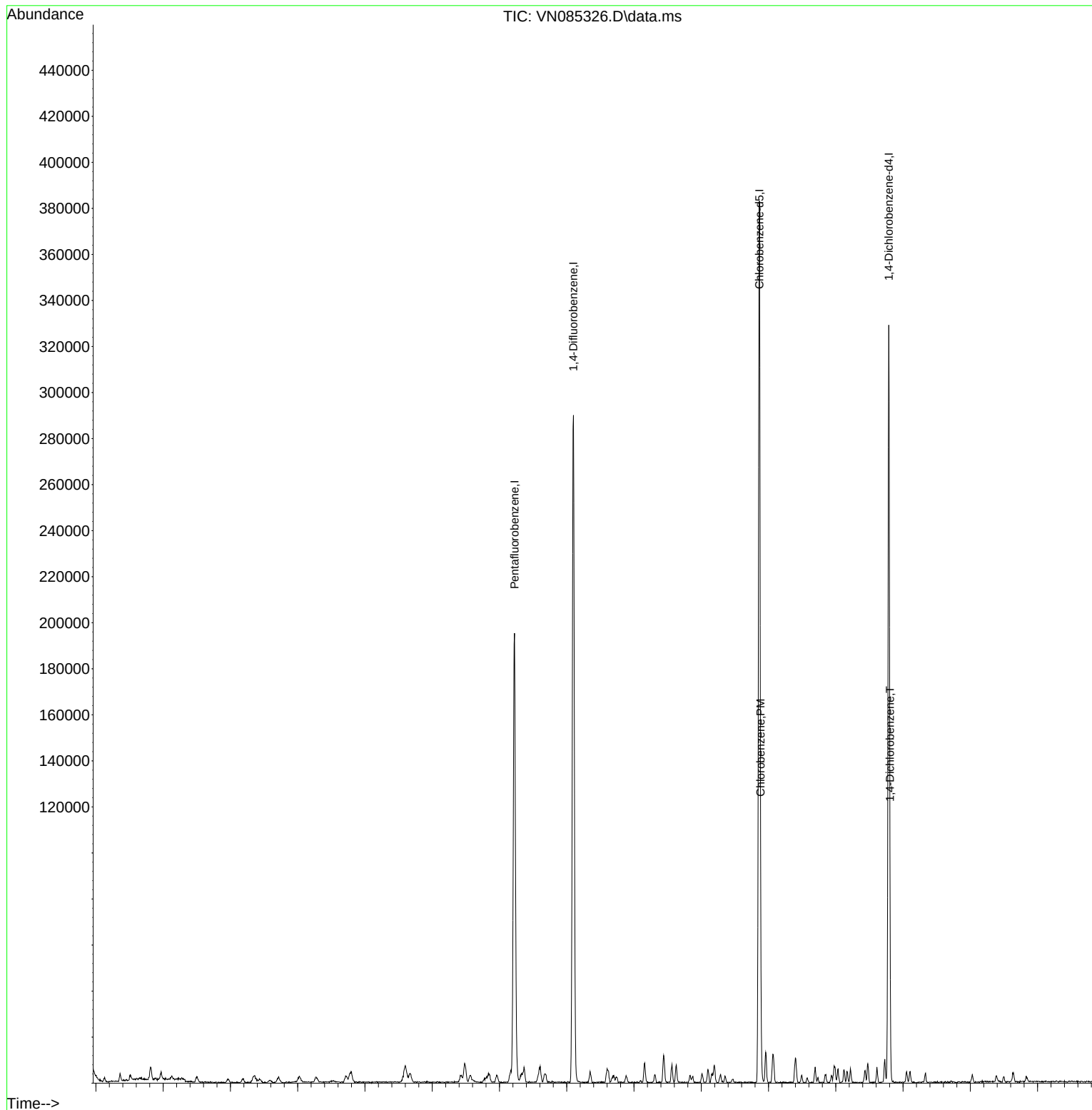
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Data File : VN085326.D
Acq On : 27 Dec 2024 12:48
Operator : JC\MD
Sample : VSTDIC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

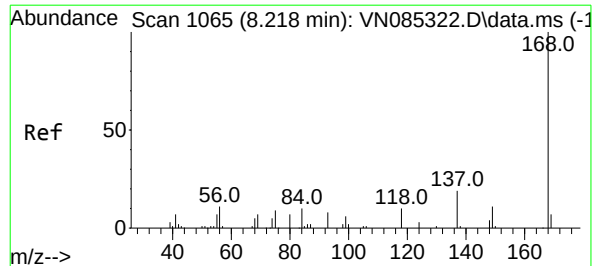
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:10:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:168 Resp: 133455

Ion Ratio Lower Upper

168 100

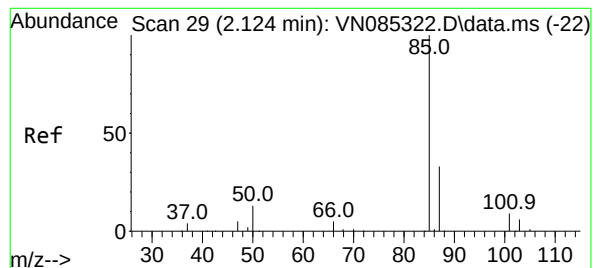
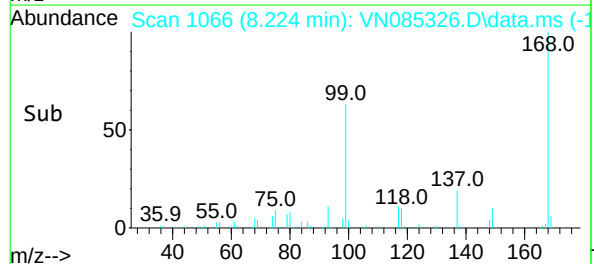
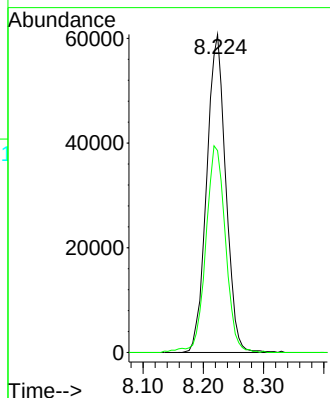
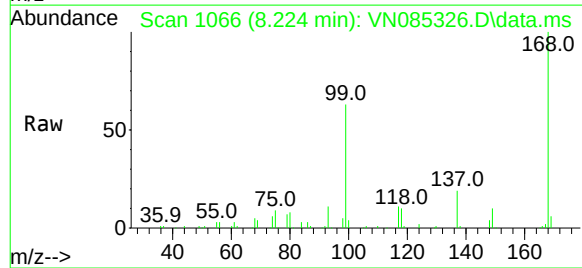
99 63.5 51.0 76.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#2

Dichlorodifluoromethane

Concen: 0.960 ug/l

RT: 2.130 min Scan# 30

Delta R.T. 0.006 min

Lab File: VN085326.D

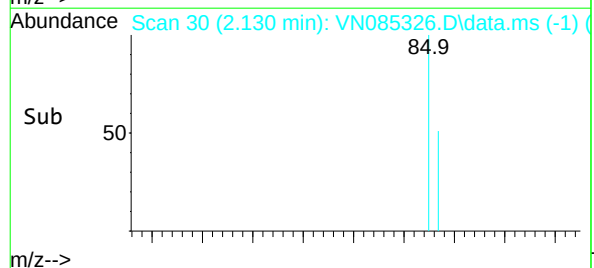
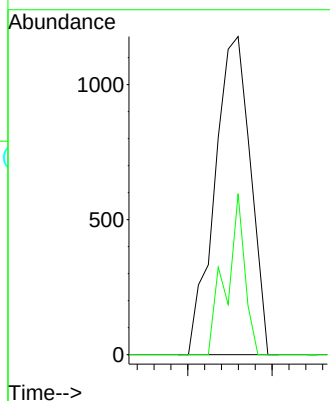
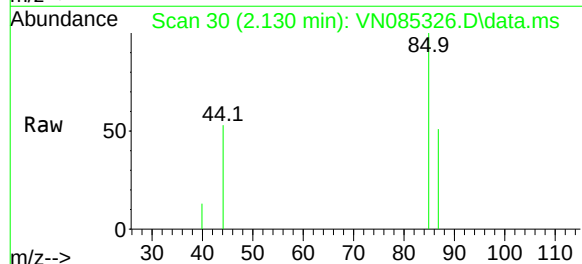
Acq: 27 Dec 2024 12:48

Tgt Ion: 85 Resp: 1733

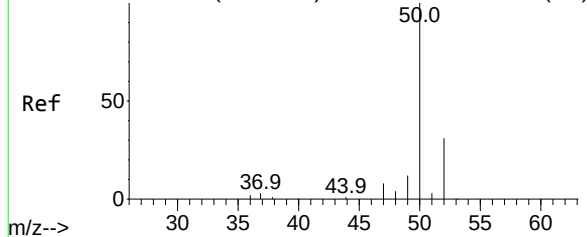
Ion Ratio Lower Upper

85 100

87 50.6 16.8 50.3#



Abundance Scan 69 (2.359 min): VN085322.D\data.ms (-62)



#3

Chloromethane

Concen: 1.290 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

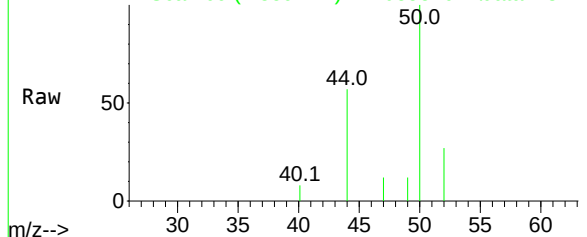
Instrument :

MSVOA_N

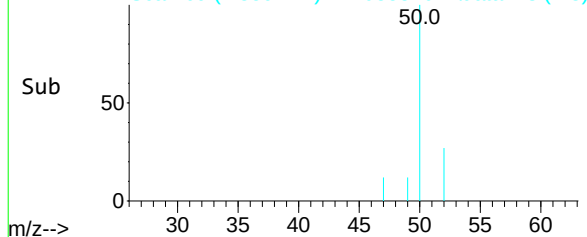
ClientSampleId :

VSTDICC001

Abundance Scan 69 (2.359 min): VN085326.D\data.ms



Abundance Scan 69 (2.359 min): VN085326.D\data.ms (-18)



Tgt Ion: 50 Resp: 2616

Ion Ratio Lower Upper

50 100

52 26.9 25.1 37.7

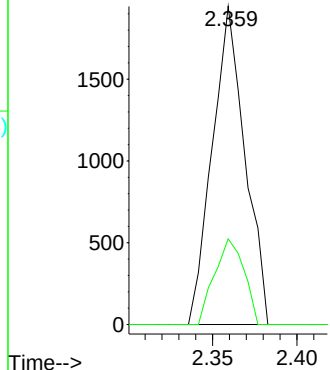
Manual Integrations

APPROVED

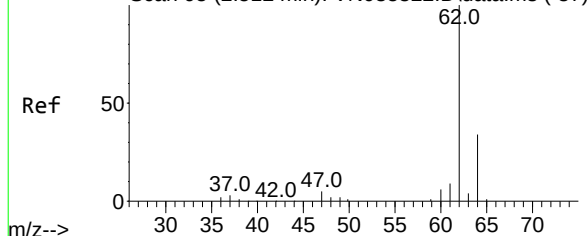
Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024

Abundance



Abundance Scan 95 (2.512 min): VN085322.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 1.069 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

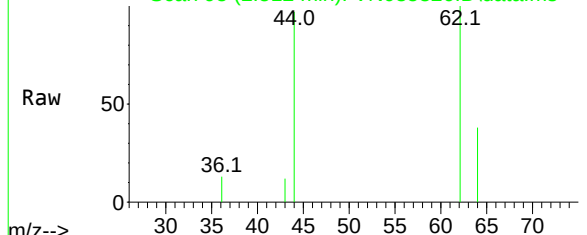
Tgt Ion: 62 Resp: 2294

Ion Ratio Lower Upper

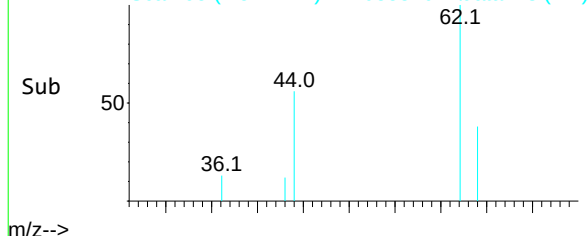
62 100

64 38.0 27.0 40.6

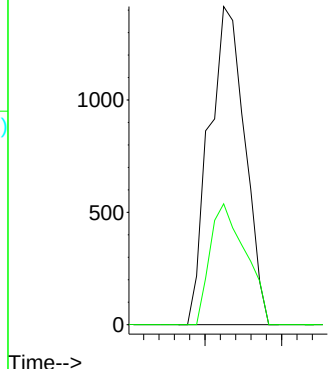
Abundance Scan 95 (2.512 min): VN085326.D\data.ms

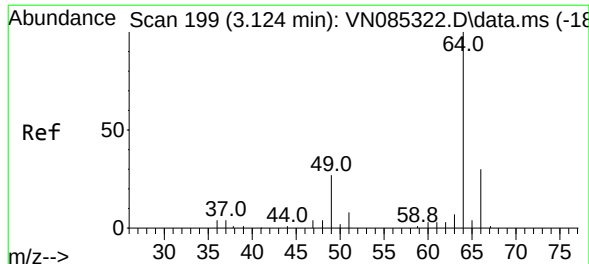


Abundance Scan 95 (2.512 min): VN085326.D\data.ms (-44)



Abundance





#6

Chloroethane

Concen: 1.025 ug/l

RT: 3.130 min Scan# 200

Delta R.T. 0.006 min

Lab File: VN085326.D

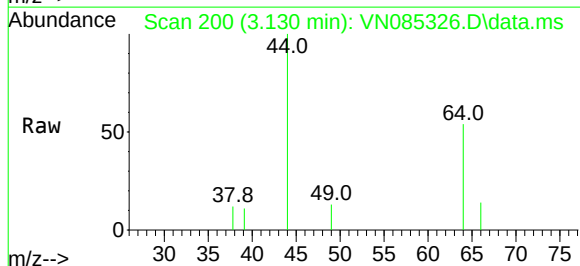
Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001



Tgt Ion: 64 Resp: 1394

Ion Ratio Lower Upper

64 100

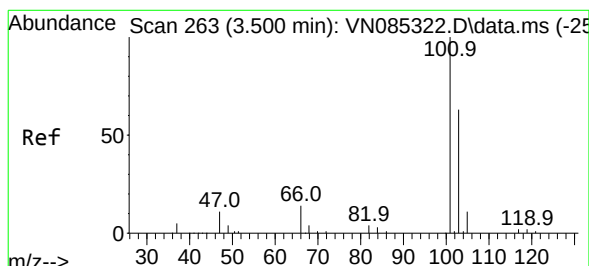
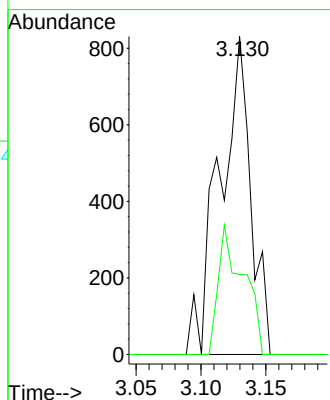
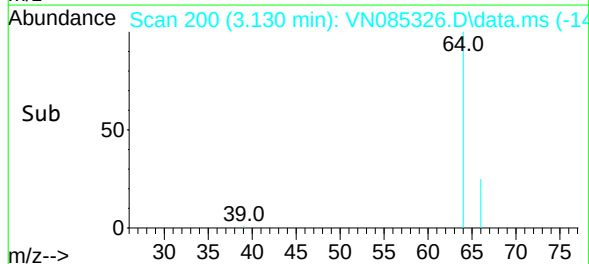
66 25.2 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#7

Trichlorofluoromethane

Concen: 0.999 ug/l

RT: 3.500 min Scan# 263

Delta R.T. -0.000 min

Lab File: VN085326.D

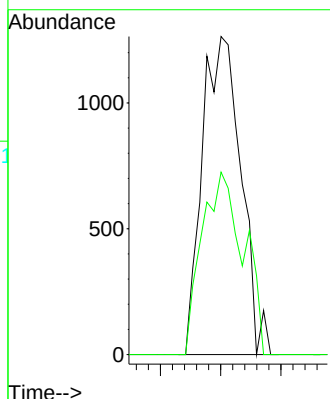
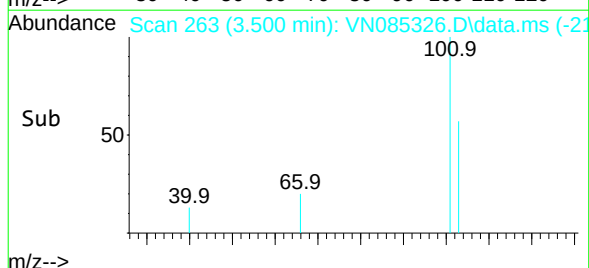
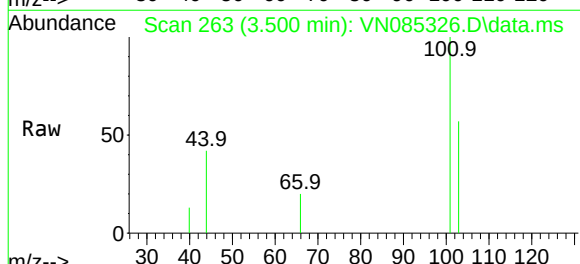
Acq: 27 Dec 2024 12:48

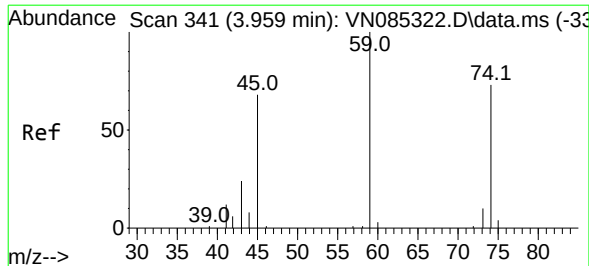
Tgt Ion:101 Resp: 2816

Ion Ratio Lower Upper

101 100

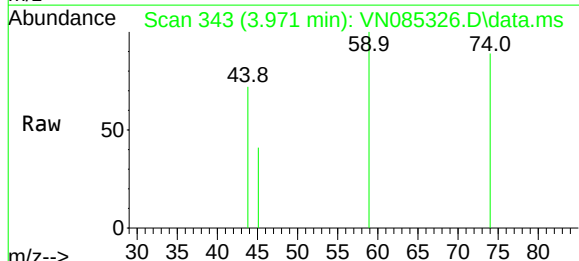
103 57.4 50.3 75.5





#8
Diethyl Ether
Concen: 0.810 ug/l
RT: 3.971 min Scan# 341
Delta R.T. 0.012 min
Lab File: VN085326.D
Acq: 27 Dec 2024 12:48

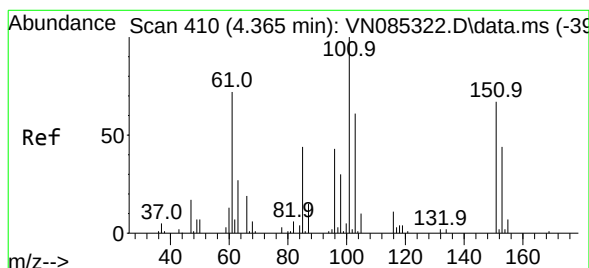
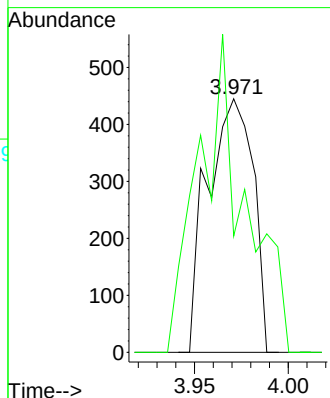
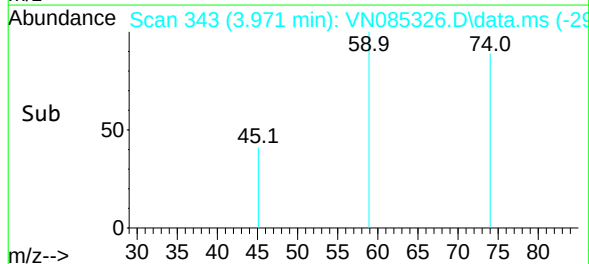
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 74 Resp: 756
Ion Ratio Lower Upper
74 100
45 125.5 47.5 142.6

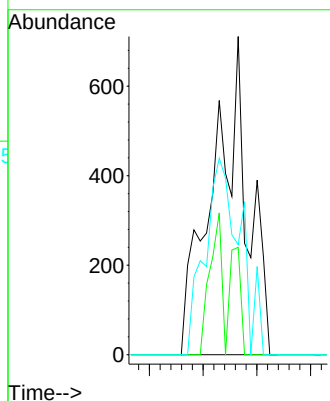
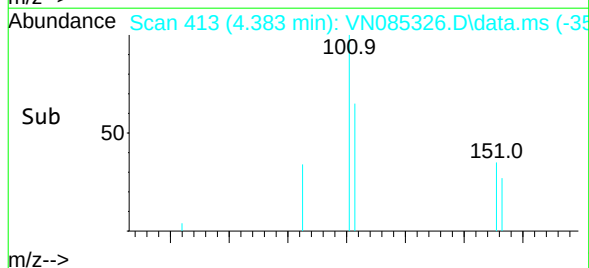
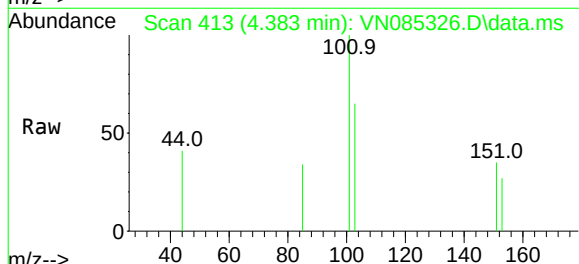
Manual Integrations
APPROVED

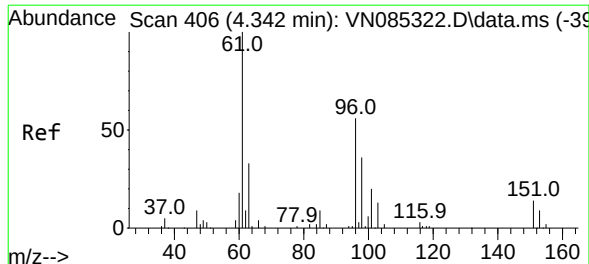
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.985 ug/l m
RT: 4.383 min Scan# 413
Delta R.T. 0.018 min
Lab File: VN085326.D
Acq: 27 Dec 2024 12:48

Tgt Ion:101 Resp: 1581
Ion Ratio Lower Upper
101 100
85 15.5 36.2 54.4#
151 63.4 55.8 83.6





#12

1,1-Dichloroethene

Concen: 0.947 ug/l

RT: 4.341 min Scan# 406

Delta R.T. -0.000 min

Lab File: VN085326.D

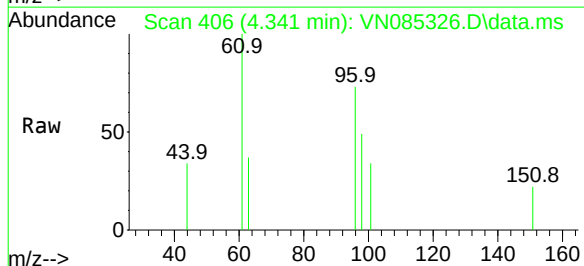
Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001



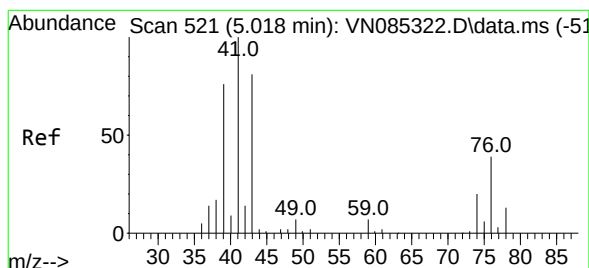
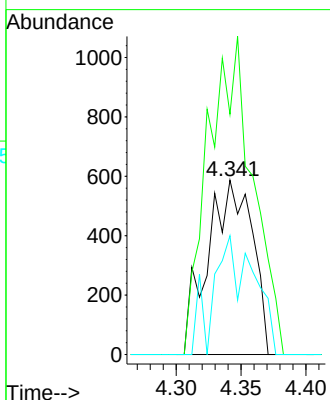
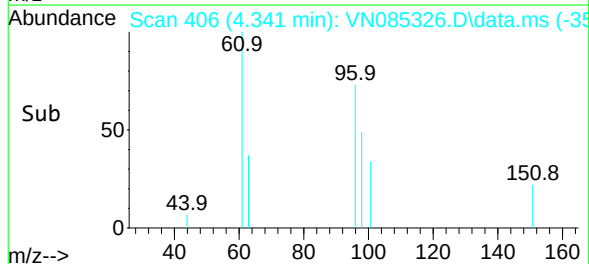
Tgt	Ion	96	Resp:	1405
Ion	Ratio	Lower	Upper	
96	100			
61	137.8	142.4	213.6	#
98	68.1	51.5	77.3	

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#14

Allyl chloride

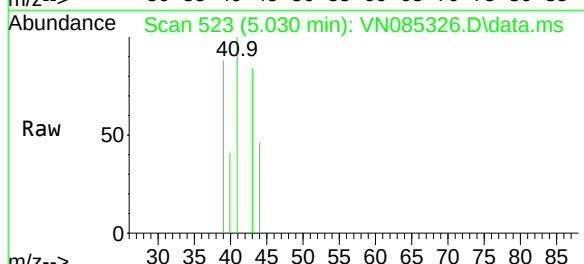
Concen: 1.028 ug/l

RT: 5.030 min Scan# 523

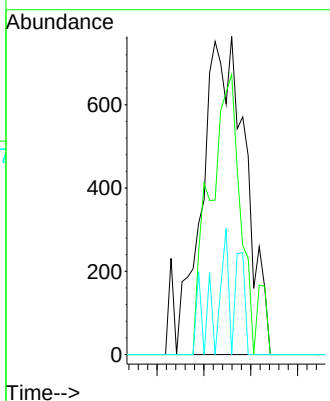
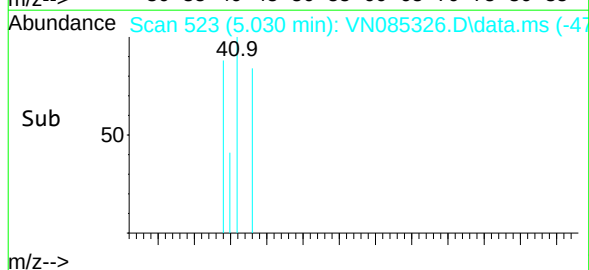
Delta R.T. 0.012 min

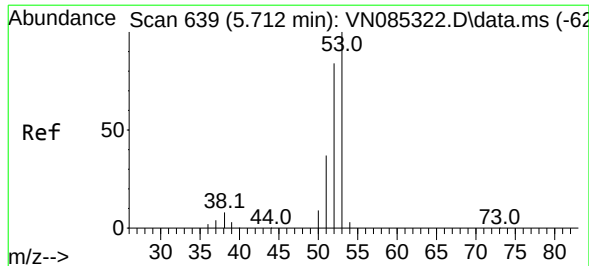
Lab File: VN085326.D

Acq: 27 Dec 2024 12:48



Tgt	Ion	41	Resp:	2441
Ion	Ratio	Lower	Upper	
41	100			
39	61.1	64.4	96.6	#
76	6.7	31.5	47.3	#





#15

Acrylonitrile

Concen: 4.932 ug/l m

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min MSVOA_N

Lab File: VN085326.D

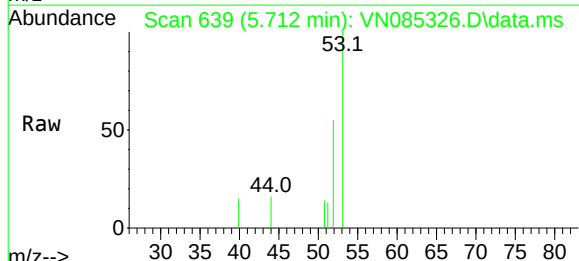
Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

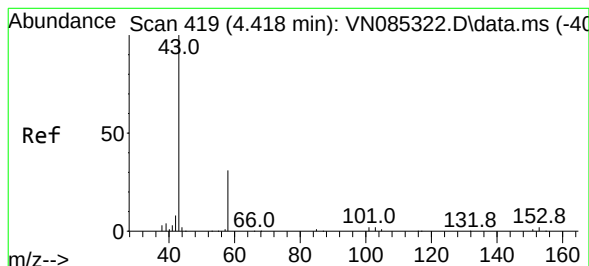
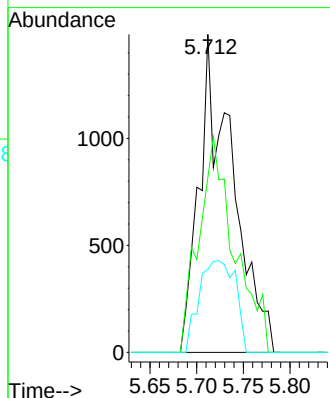
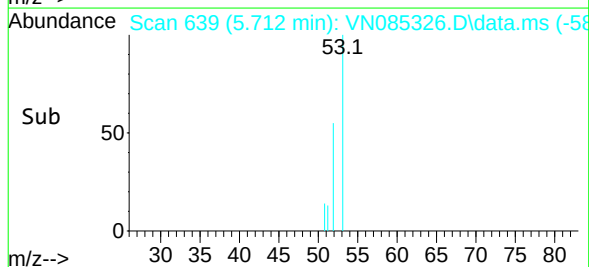
VSTDICC001



Tgt Ion:	53	Resp:	3700
Ion	Ratio	Lower	Upper
53	100		
52	72.6	66.6	100.0
51	31.3	29.6	44.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#16

Acetone

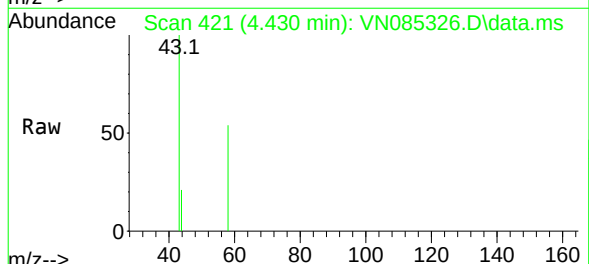
Concen: 5.323 ug/l

RT: 4.430 min Scan# 421

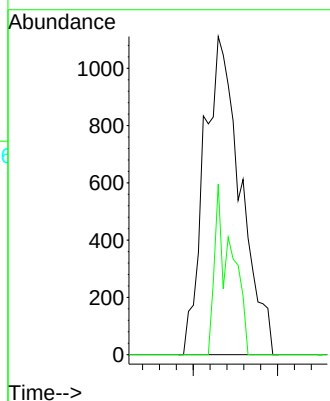
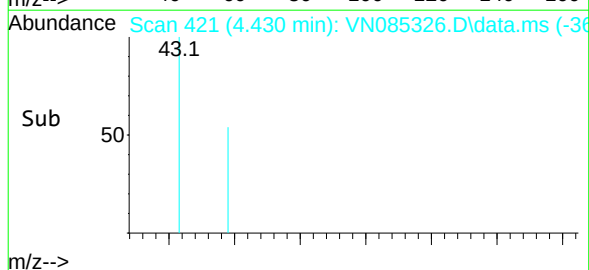
Delta R.T. 0.012 min

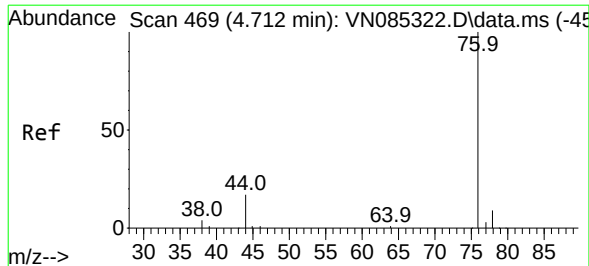
Lab File: VN085326.D

Acq: 27 Dec 2024 12:48



Tgt Ion:	43	Resp:	3332
Ion	Ratio	Lower	Upper
43	100		
58	53.6	24.5	36.7#





#17

Carbon Disulfide

Concen: 1.193 ug/l

RT: 4.718 min Scan# 47

Delta R.T. 0.006 min

Lab File: VN085326.D

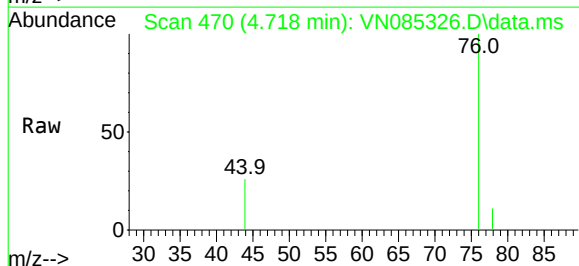
Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001



Tgt Ion: 76 Resp: 5381

Ion Ratio Lower Upper

76 100

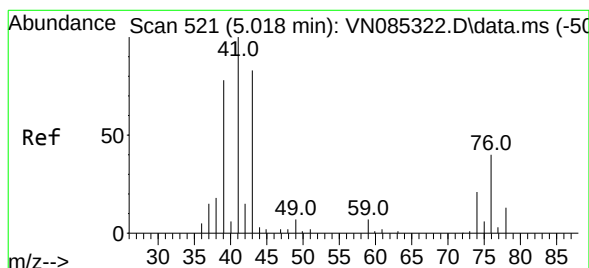
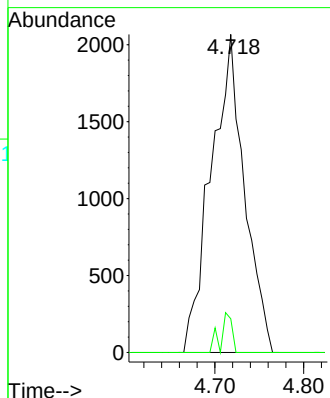
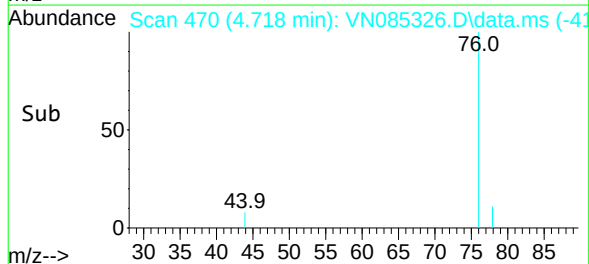
78 10.6 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#18

Methyl Acetate

Concen: 1.016 ug/l

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN085326.D

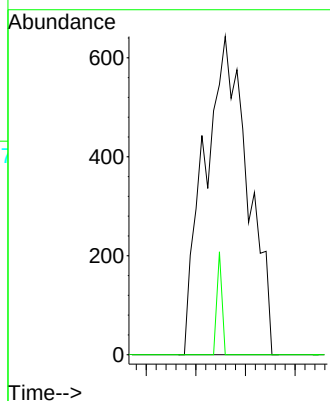
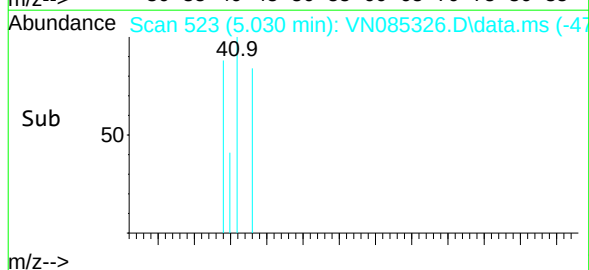
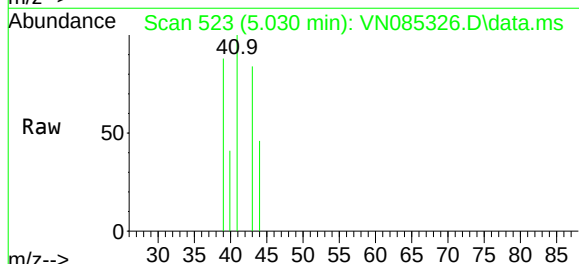
Acq: 27 Dec 2024 12:48

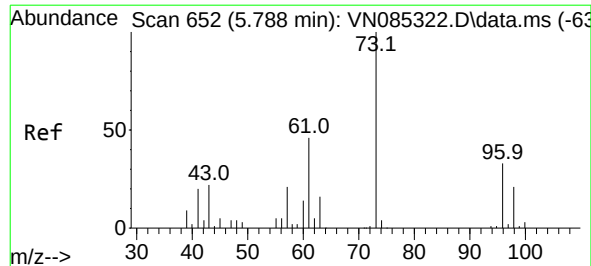
Tgt Ion: 43 Resp: 1947

Ion Ratio Lower Upper

43 100

74 3.7 19.0 28.6#





#19

Methyl tert-butyl Ether

Concen: 0.875 ug/l

RT: 5.800 min Scan# 65

Delta R.T. 0.012 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 4219

Ion Ratio Lower Upper

73 100

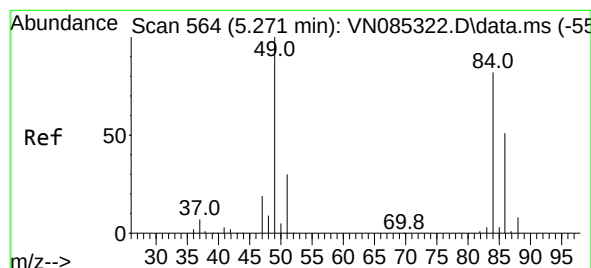
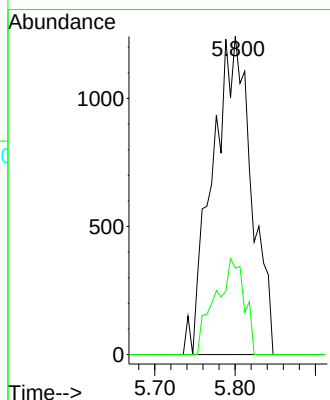
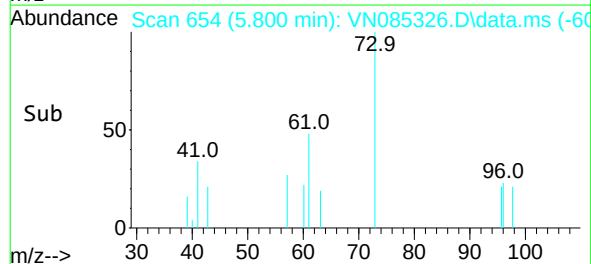
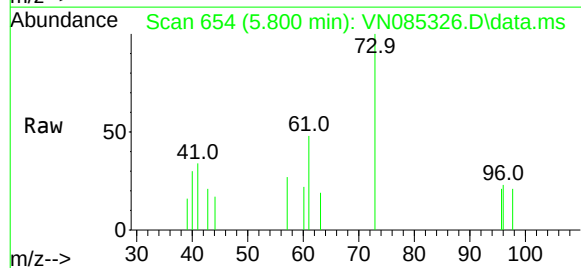
57 27.1 17.0 25.6#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#20

Methylene Chloride

Concen: 1.023 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Tgt Ion: 84 Resp: 1722

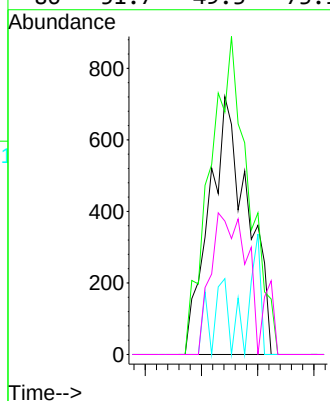
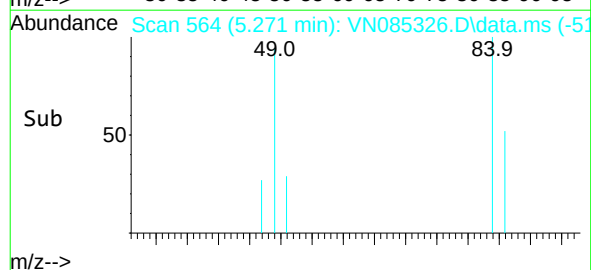
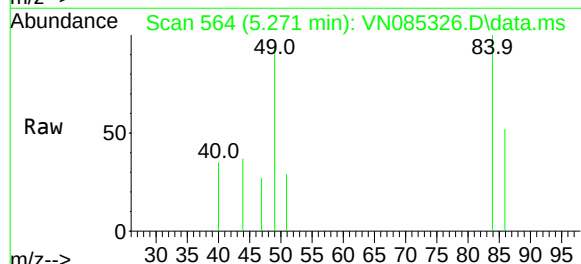
Ion Ratio Lower Upper

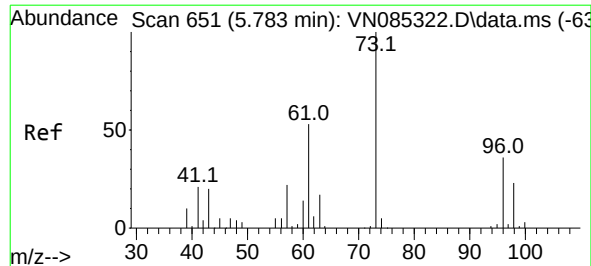
84 100

49 94.0 97.6 146.4#

51 29.4 29.1 43.7

86 51.7 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 0.988 ug/l

RT: 5.794 min Scan# 651

Delta R.T. 0.012 min

Lab File: VN085326.D

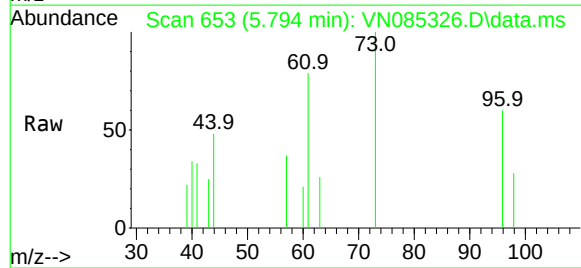
Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001



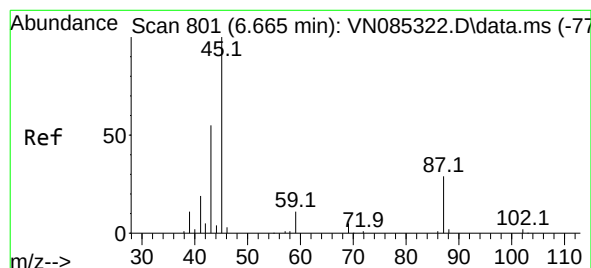
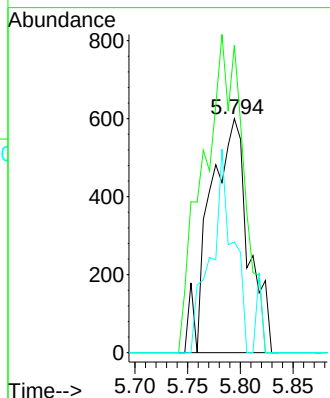
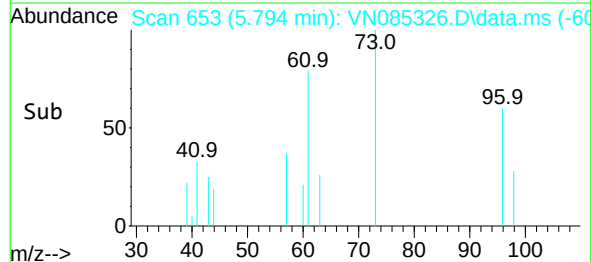
Tgt Ion:	96	Resp:	1530
Ion	Ratio	Lower	Upper
96	100		
61	131.3	118.0	177.0
98	47.3	50.6	75.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#22

Diisopropyl ether

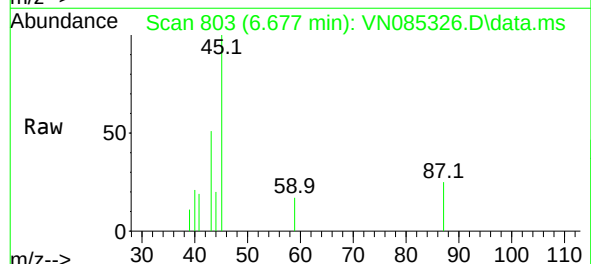
Concen: 0.836 ug/l

RT: 6.677 min Scan# 803

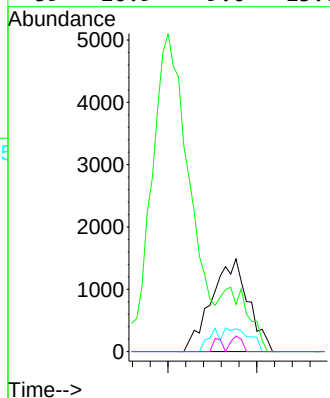
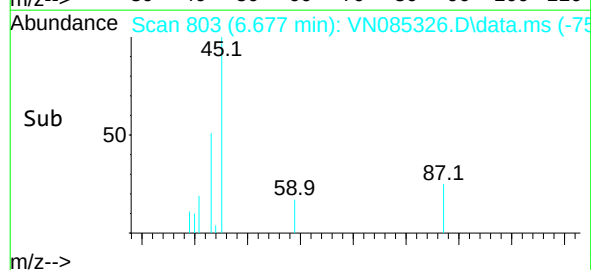
Delta R.T. 0.012 min

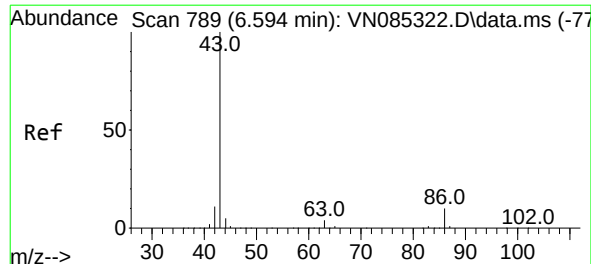
Lab File: VN085326.D

Acq: 27 Dec 2024 12:48



Tgt Ion:	45	Resp:	4276
Ion	Ratio	Lower	Upper
45	100		
43	51.0	44.1	66.1
87	24.7	23.2	34.8
59	16.9	9.0	13.6





#23

Vinyl Acetate

Concen: 4.083 ug/l

RT: 6.600 min Scan# 791

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 15012

Ion Ratio Lower Upper

43 100

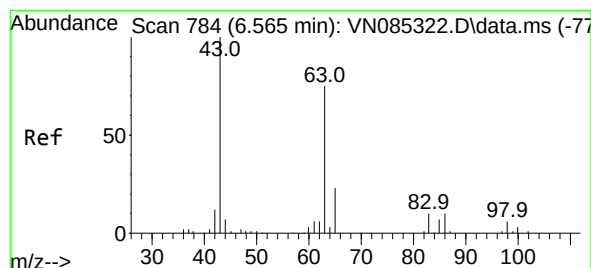
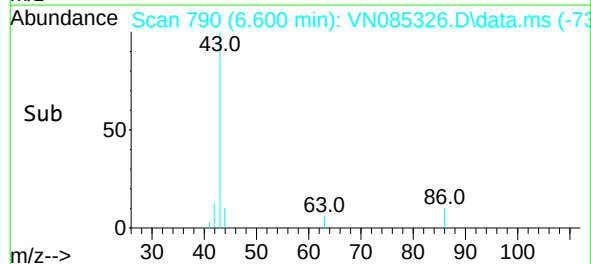
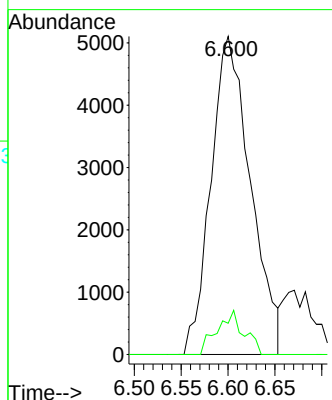
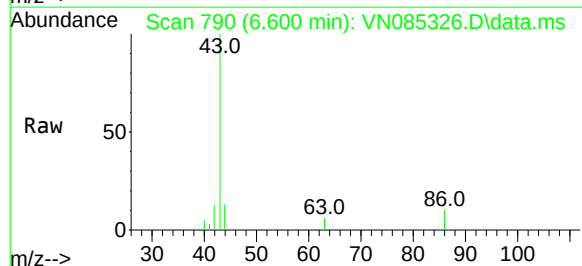
86 9.8 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#24

1,1-Dichloroethane

Concen: 0.990 ug/l

RT: 6.559 min Scan# 783

Delta R.T. -0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

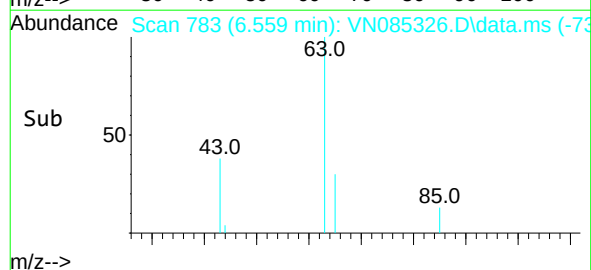
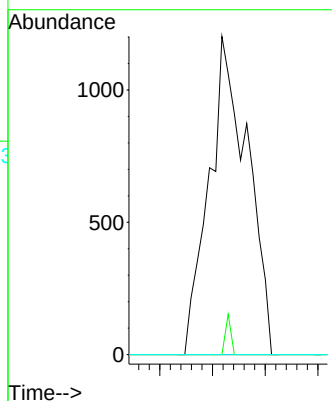
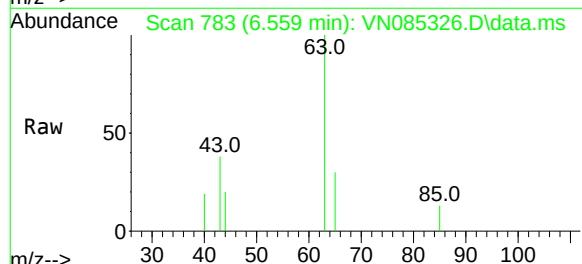
Tgt Ion: 63 Resp: 3050

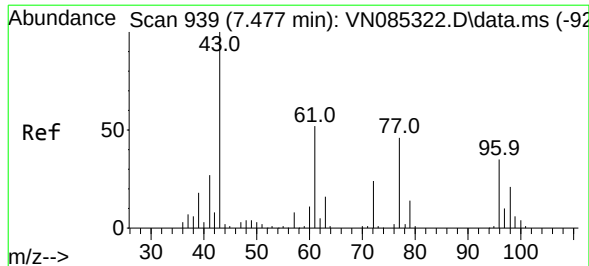
Ion Ratio Lower Upper

63 100

98 0.0 3.7 11.1#

100 0.0 2.3 6.8#





#25

2-Butanone

Concen: 4.665 ug/l

RT: 7.482 min Scan# 940

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Tgt Ion: 43 Resp: 4530

Ion Ratio Lower Upper

43 100

72 25.9 19.6 29.4

Instrument :

MSVOA_N

ClientSampleId :

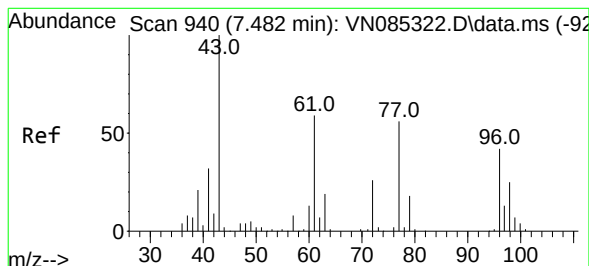
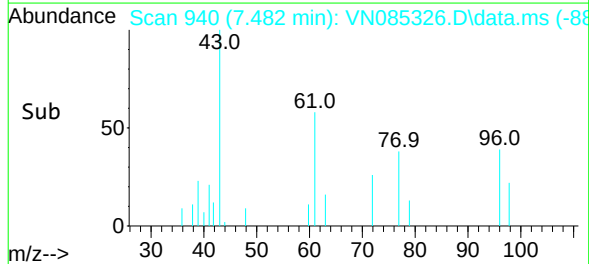
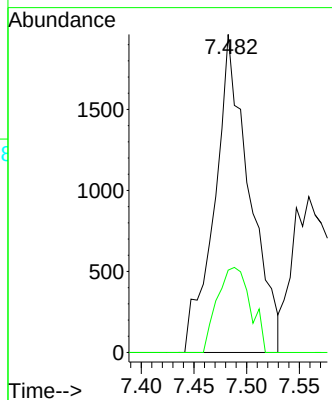
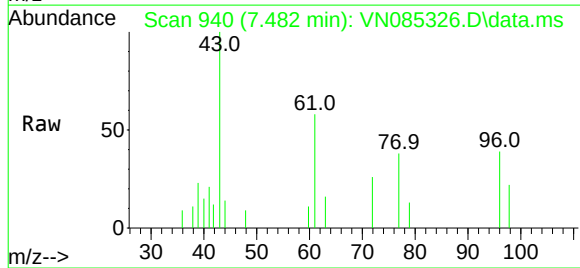
VSTDIC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#26

2,2-Dichloropropane

Concen: 0.868 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085326.D

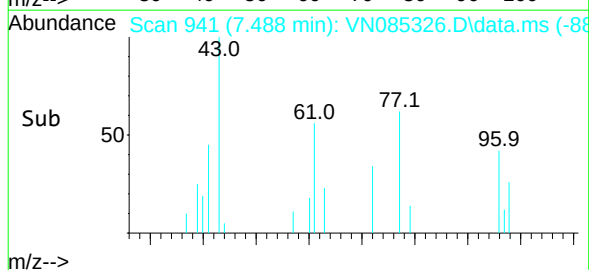
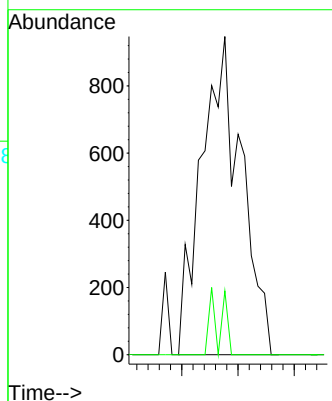
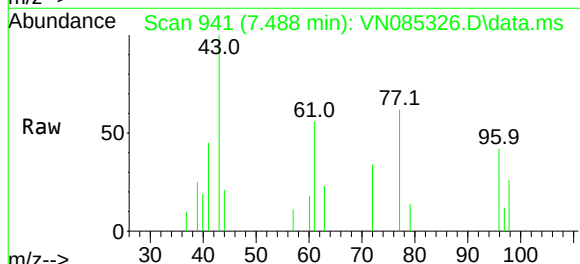
Acq: 27 Dec 2024 12:48

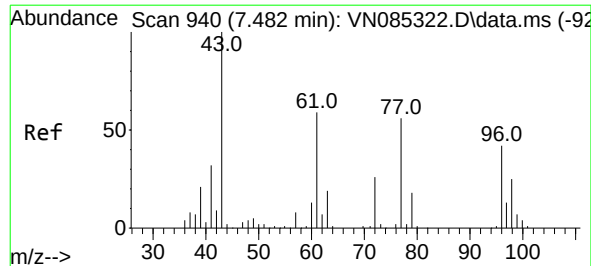
Tgt Ion: 77 Resp: 2343

Ion Ratio Lower Upper

77 100

97 5.9 10.6 31.8#





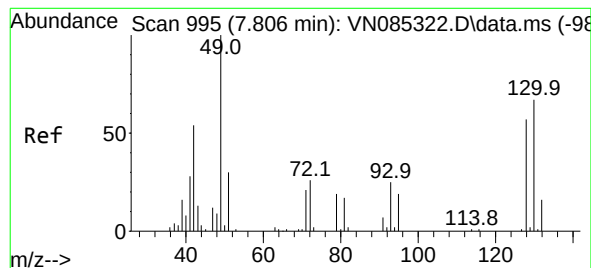
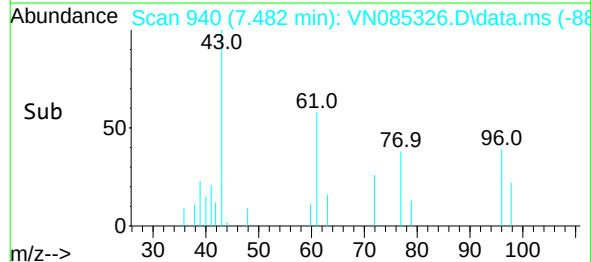
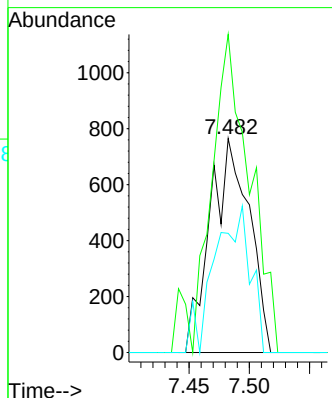
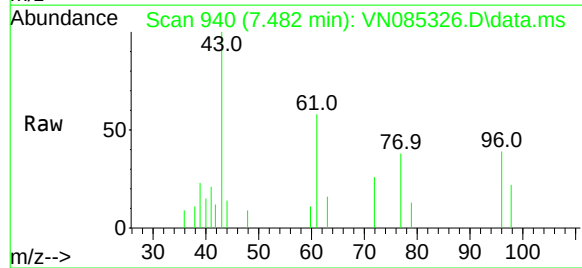
#27
cis-1,2-Dichloroethene
Concen: 0.953 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085326.D
Acq: 27 Dec 2024 12:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1732
Ion Ratio Lower Upper
96 100
61 150.3 0.0 296.4
98 62.8 0.0 124.2

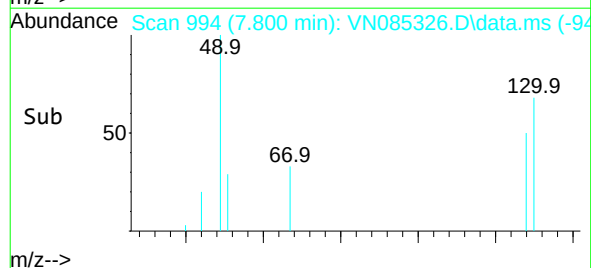
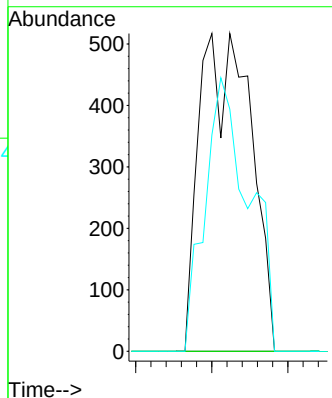
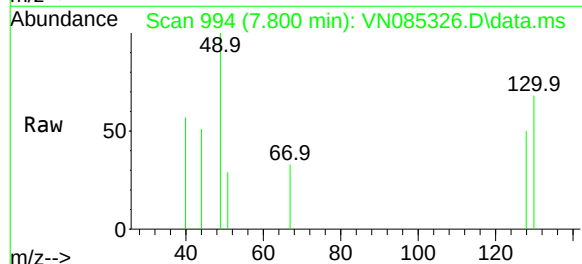
Manual Integrations
APPROVED

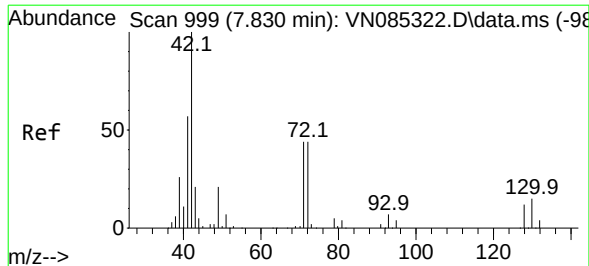
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#28
Bromochloromethane
Concen: 0.853 ug/l m
RT: 7.800 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN085326.D
Acq: 27 Dec 2024 12:48

Tgt Ion: 49 Resp: 1221
Ion Ratio Lower Upper
49 100
129 0.0 0.0 2.0
130 73.4 0.0 0.0#





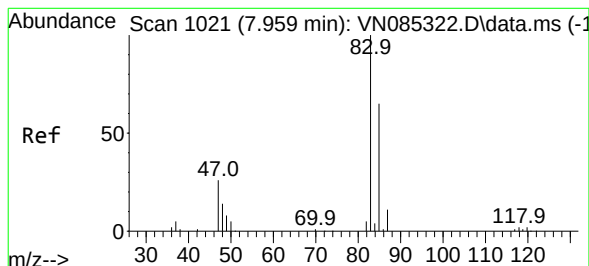
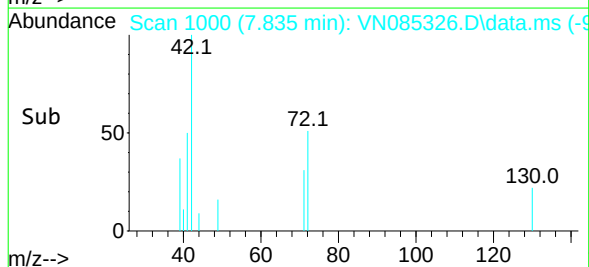
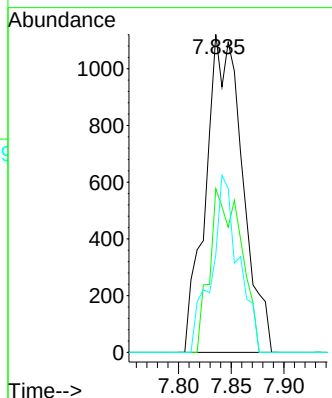
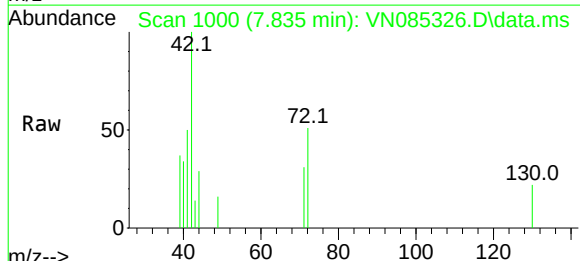
#29
Tetrahydrofuran
Concen: 4.360 ug/l
RT: 7.835 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085326.D
Acq: 27 Dec 2024 12:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt	Ion	Ratio	Lower	Upper
42	42	100		
72	72	43.8	35.1	52.7
71	71	41.0	33.4	50.0

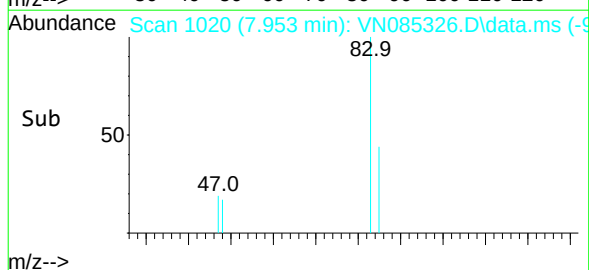
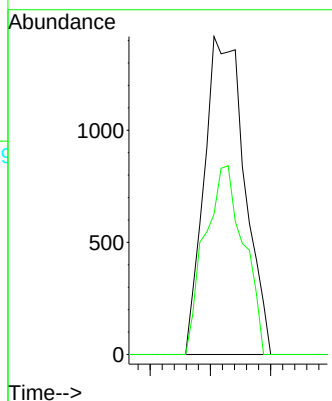
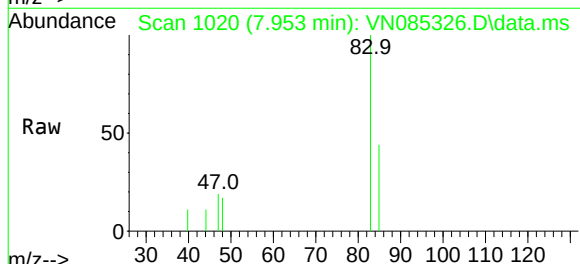
Manual Integrations
APPROVED

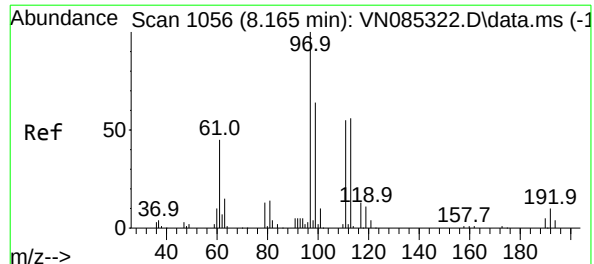
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#30
Chloroform
Concen: 1.044 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. -0.006 min
Lab File: VN085326.D
Acq: 27 Dec 2024 12:48

Tgt	Ion	Ratio	Lower	Upper
83	83	100		
85	85	44.1	52.0	78.0





#32

1,1,1-Trichloroethane

Concen: 1.001 ug/l

RT: 8.165 min Scan# 10

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 97 Resp: 2817

Ion Ratio Lower Upper

97 100

99 0.0 53.3 79.9#

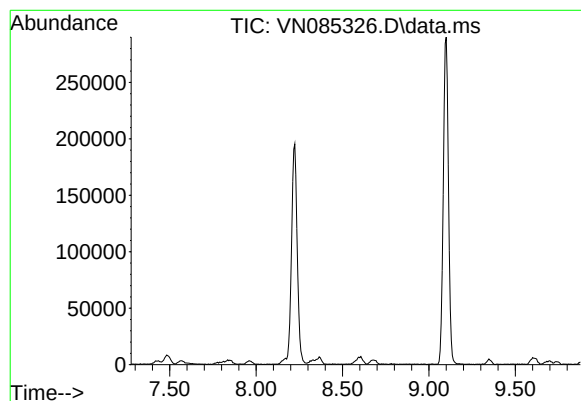
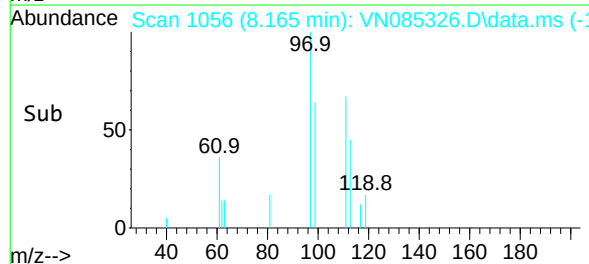
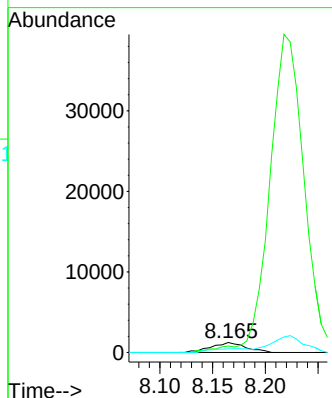
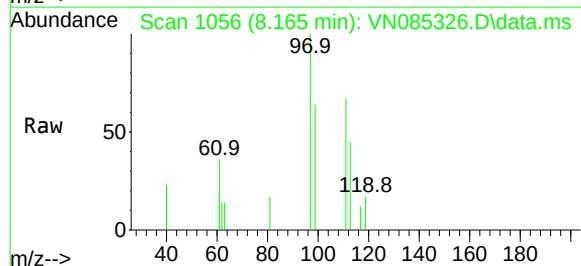
61 45.7 39.6 59.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.58 min

Lab File: VN085326.D

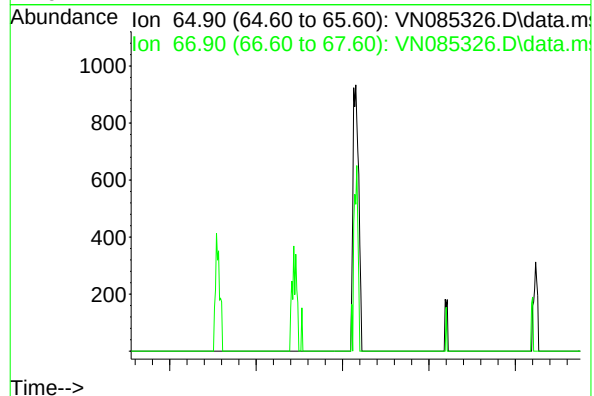
Acq: 27 Dec 2024 12:48

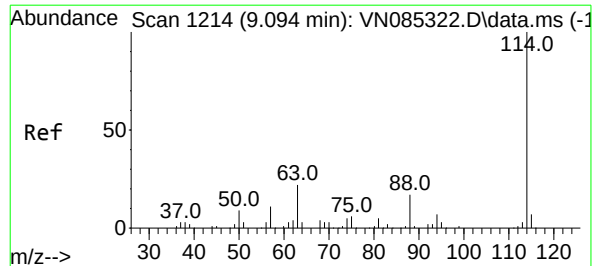
Tgt Ion: 65

Sig Exp Ratio

65 100

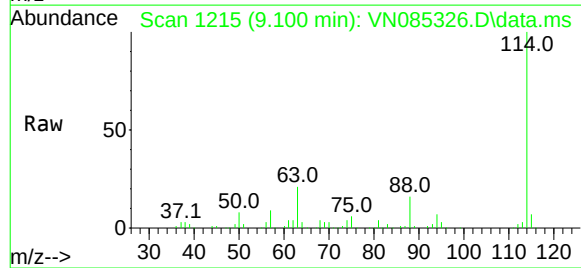
67 52.0





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VN085326.D
Acq: 27 Dec 2024 12:48

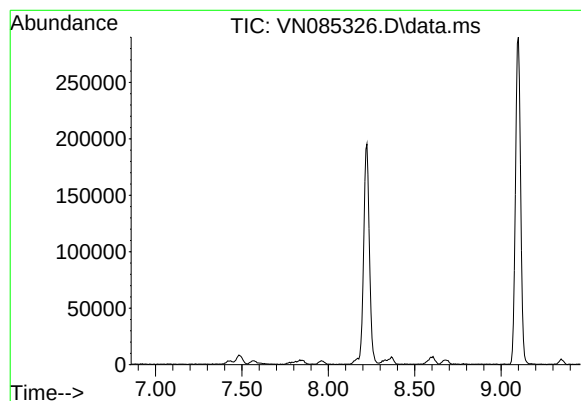
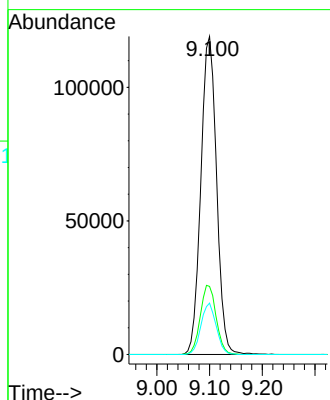
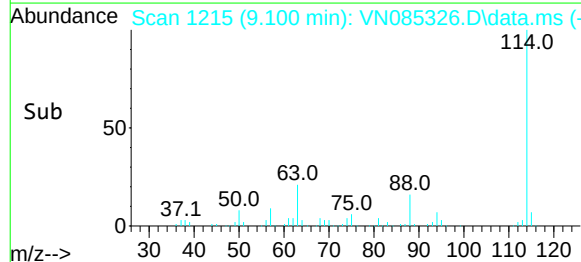
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 114 Resp: 246776
Ion Ratio Lower Upper
114 100
63 21.4 0.0 43.4
88 16.1 0.0 33.6

Manual Integrations
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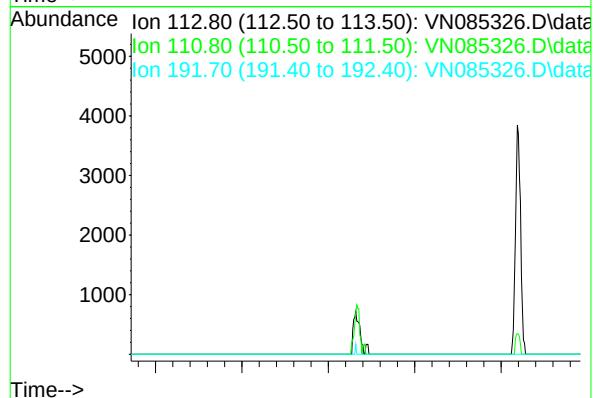
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 8.16 min

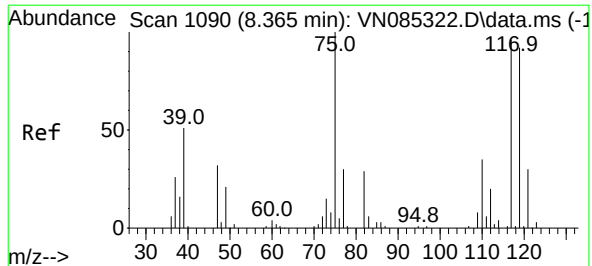
Lab File: VN085326.D
Acq: 27 Dec 2024 12:48

Tgt Ion: 113
Sig Exp Ratio
113 100
111 100.6
192 16.1



Ion 110.80 (110.50 to 111.50): VN085326.D\data.ms

Ion 191.70 (191.40 to 192.40): VN085326.D\data.ms



#36

1,1-Dichloropropene

Concen: 0.929 ug/l

RT: 8.371 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 2094

Ion Ratio Lower Upper

75 100

110 22.7 16.6 49.8

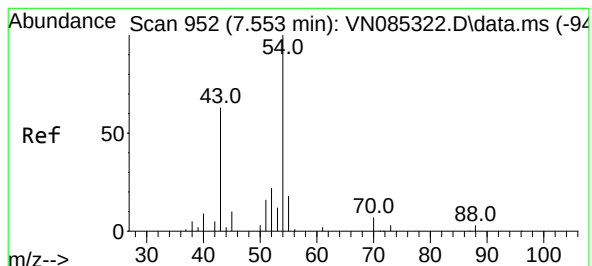
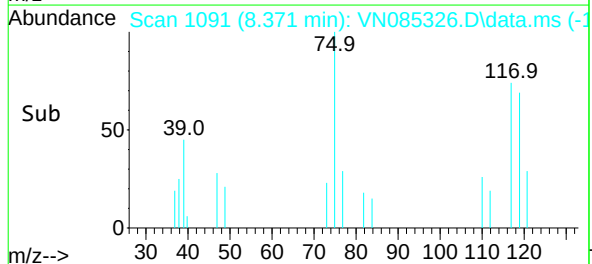
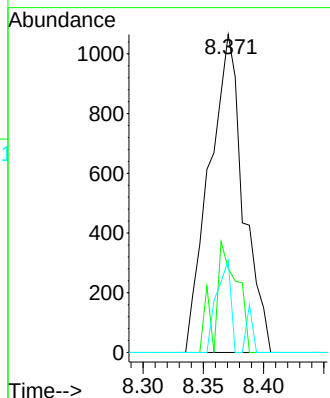
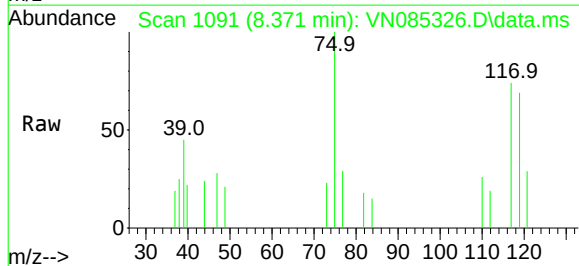
77 12.1 24.3 36.5#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#37

Ethyl Acetate

Concen: 1.071 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

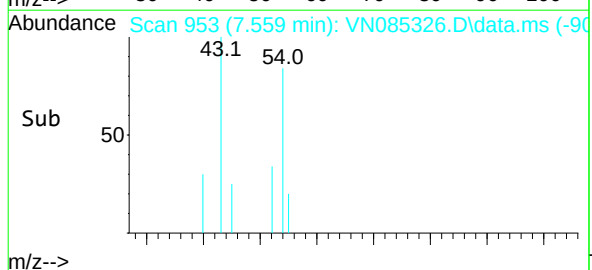
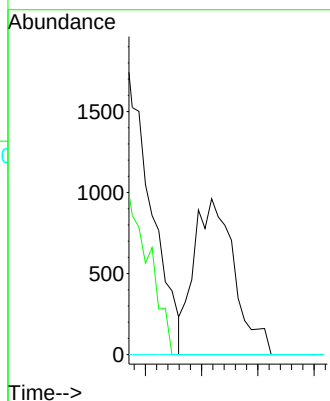
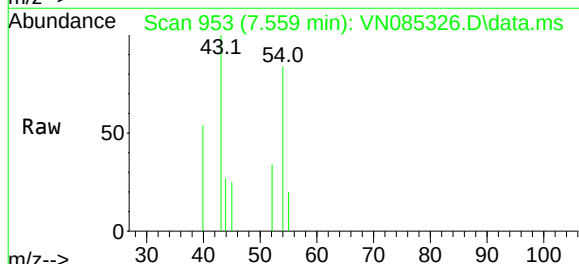
Tgt Ion: 43 Resp: 2400

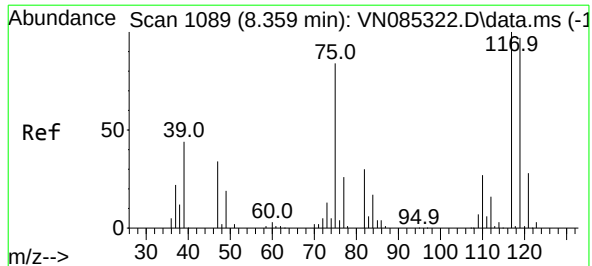
Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: 0.908 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085326.D

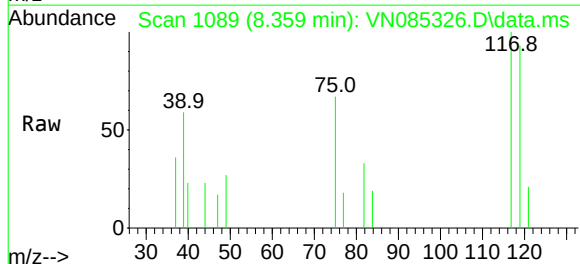
Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001



Tgt Ion: 117 Resp: 2232

Ion Ratio Lower Upper

117 100

119 92.8 77.8 116.6

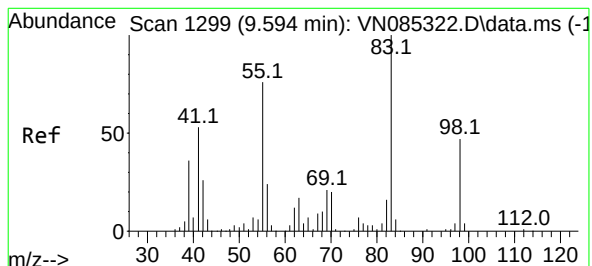
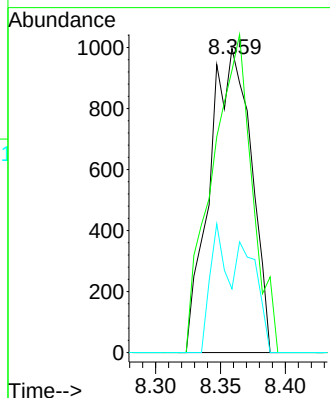
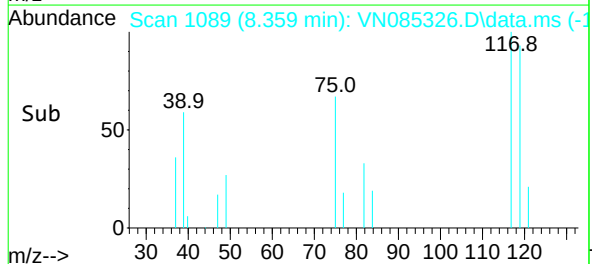
121 21.0 22.5 33.7#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#39

Methylcyclohexane

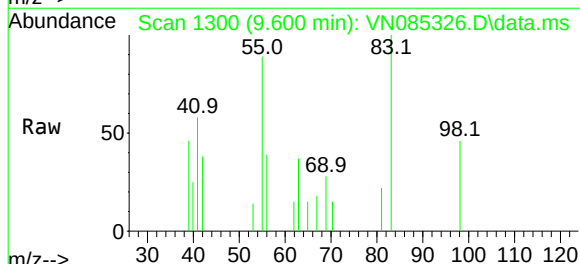
Concen: 0.817 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48



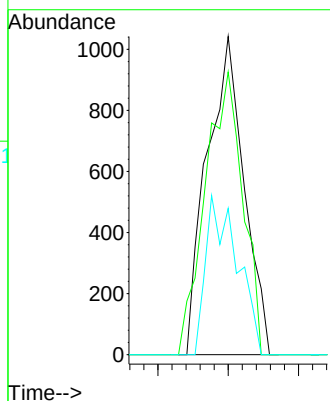
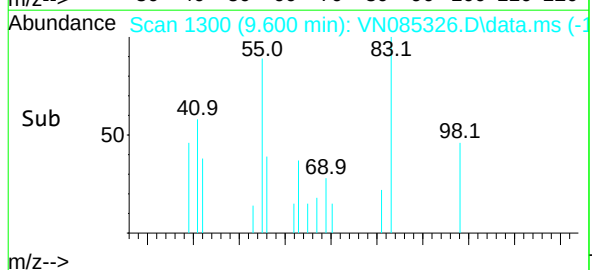
Tgt Ion: 83 Resp: 1910

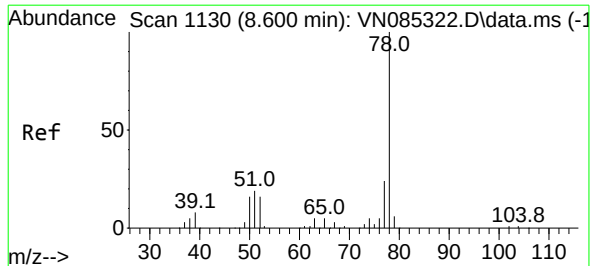
Ion Ratio Lower Upper

83 100

55 88.9 60.7 91.1

98 46.0 37.7 56.5





#40

Benzene

Concen: 0.922 ug/l

RT: 8.606 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 6282

Ion Ratio Lower Upper

78 100

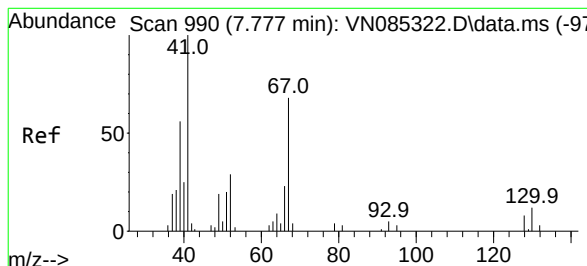
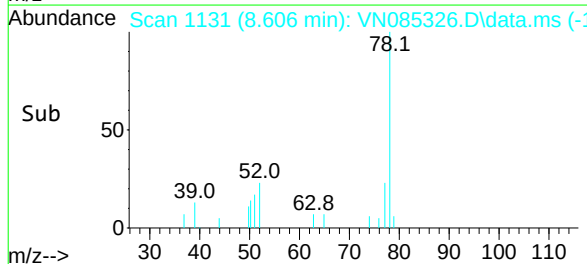
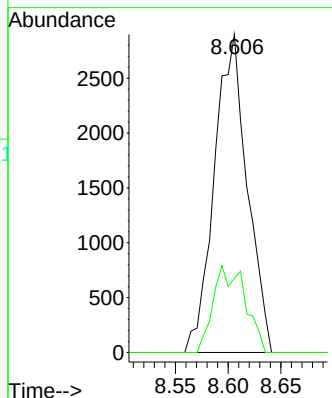
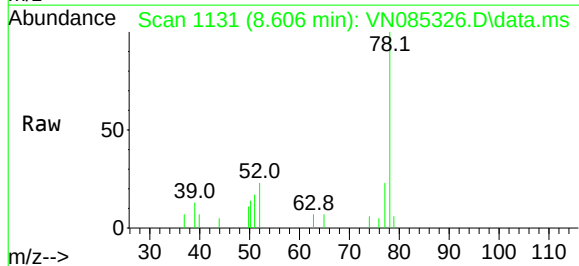
77 23.3 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#41

Methacrylonitrile

Concen: 0.787 ug/l m

RT: 7.788 min Scan# 992

Delta R.T. 0.012 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Tgt Ion: 41 Resp: 903

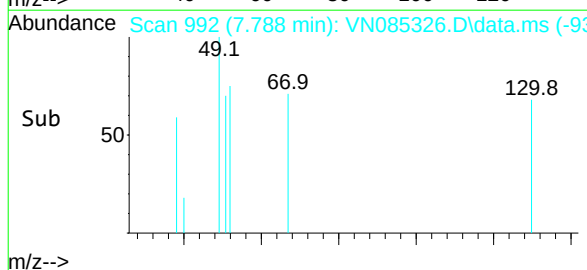
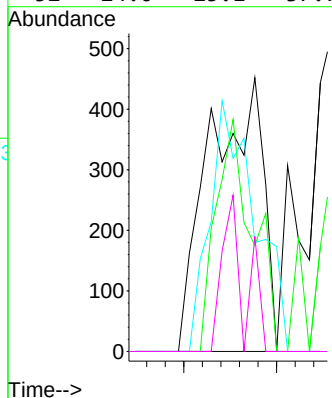
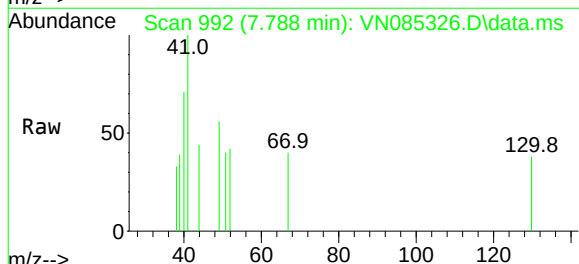
Ion Ratio Lower Upper

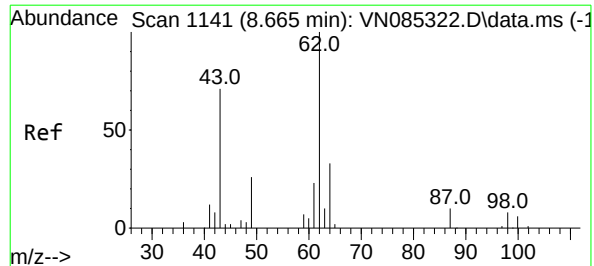
41 100

39 58.1 45.8 68.8

67 77.7 57.1 85.7

52 24.0 25.1 37.7#





#42

1,2-Dichloroethane

Concen: 0.960 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 62 Resp: 2346

Ion Ratio Lower Upper

62 100

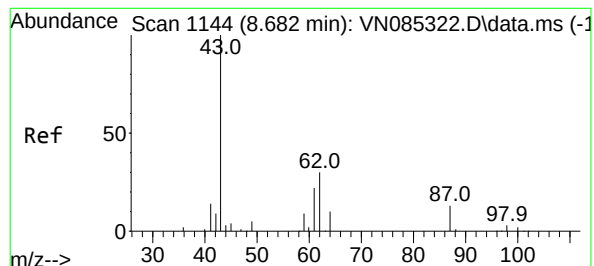
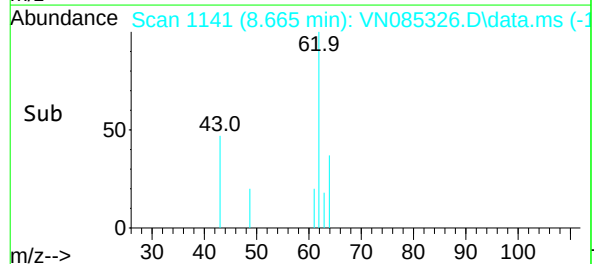
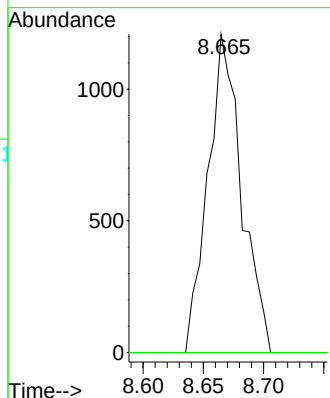
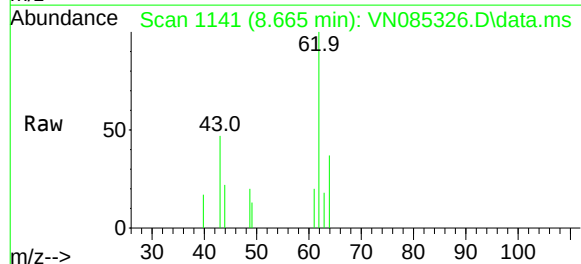
98 0.0 0.0 17.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#43

Isopropyl Acetate

Concen: 0.980 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.012 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

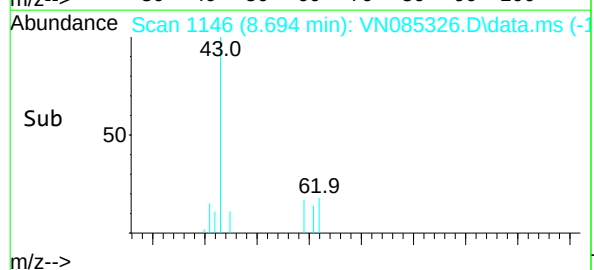
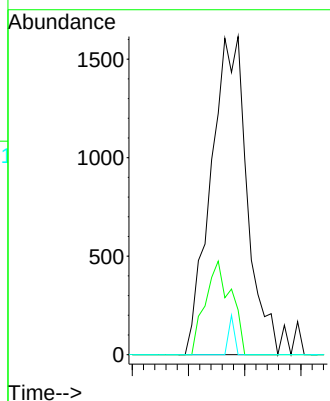
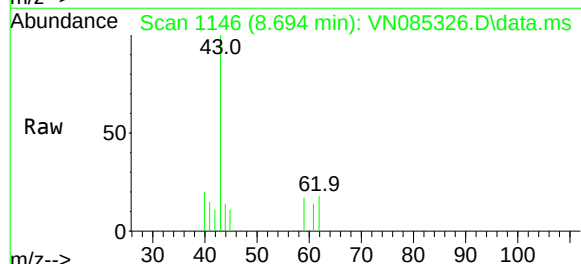
Tgt Ion: 43 Resp: 3615

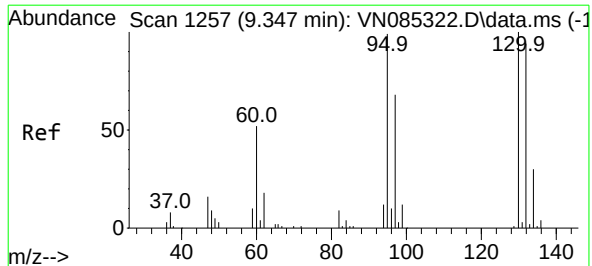
Ion Ratio Lower Upper

43 100

61 21.1 20.8 31.2

87 2.0 10.2 15.4#





#44

Trichloroethene

Concen: 1.051 ug/l

RT: 9.347 min Scan# 12

Delta R.T. -0.000 min

Lab File: VN085326.D

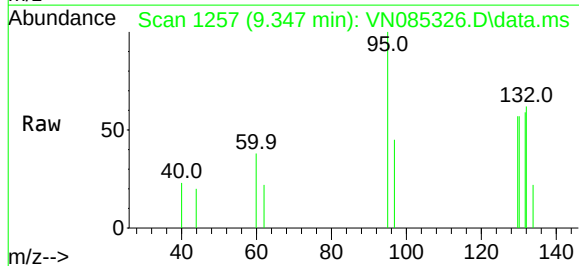
Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001



Tgt Ion:130 Resp: 1696

Ion Ratio Lower Upper

130 100

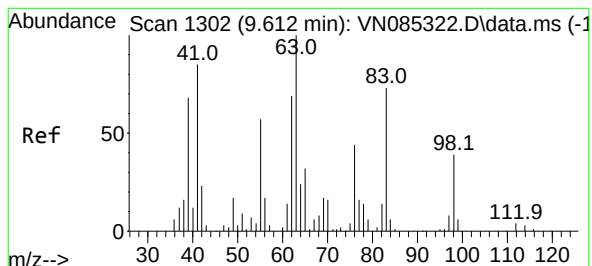
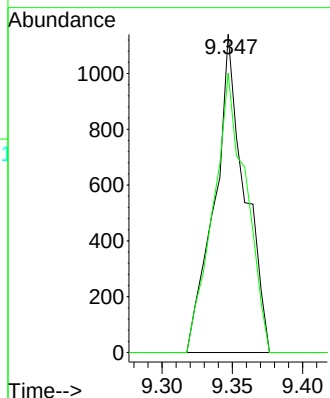
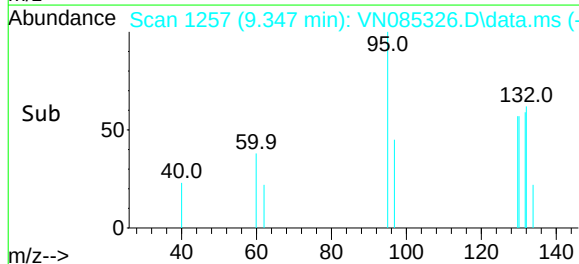
95 87.8 0.0 197.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#45

1,2-Dichloropropane

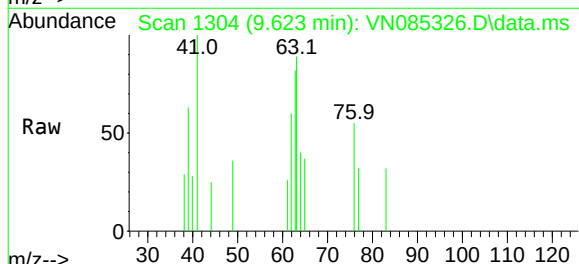
Concen: 0.958 ug/l

RT: 9.623 min Scan# 1304

Delta R.T. 0.012 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

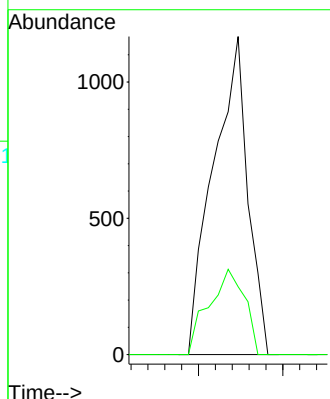
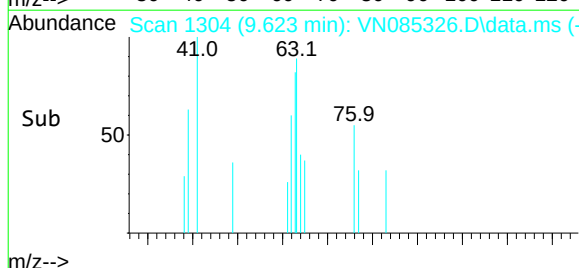


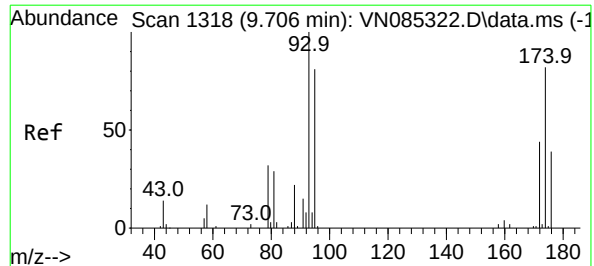
Tgt Ion: 63 Resp: 1658

Ion Ratio Lower Upper

63 100

65 21.3 25.5 38.3#





#46

Dibromomethane

Concen: 0.908 ug/l

RT: 9.712 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VN085326.D

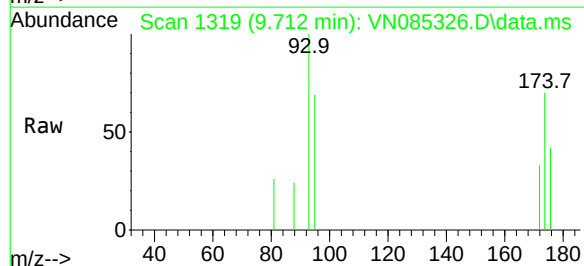
Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

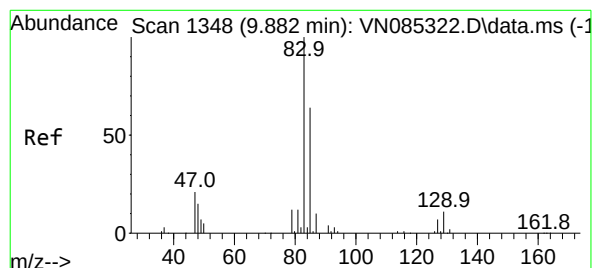
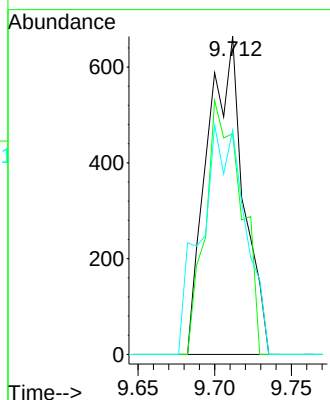
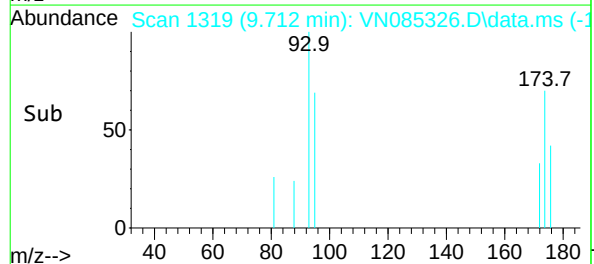
VSTDICC001



Tgt Ion:	93	Resp:	1092
Ion	Ratio	Lower	Upper
93	100		
95	78.9	65.3	97.9
174	87.5	66.4	99.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#47

Bromodichloromethane

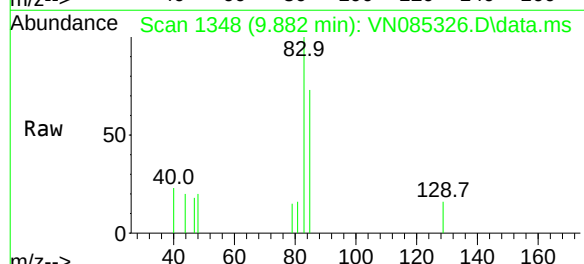
Concen: 0.906 ug/l

RT: 9.882 min Scan# 1348

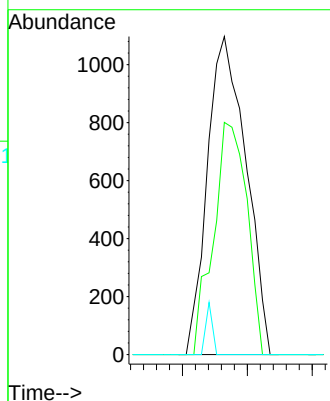
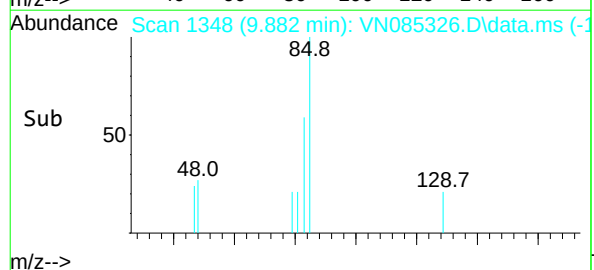
Delta R.T. -0.000 min

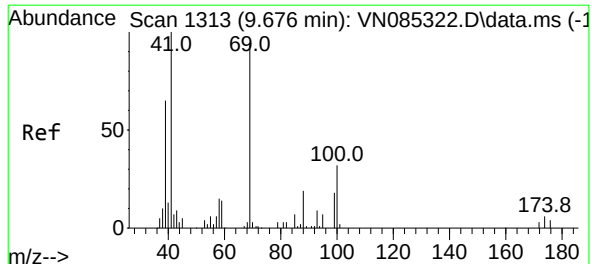
Lab File: VN085326.D

Acq: 27 Dec 2024 12:48



Tgt Ion:	83	Resp:	2265
Ion	Ratio	Lower	Upper
83	100		
85	73.0	51.0	76.4
127	0.0	5.8	8.6#





#48

Methyl methacrylate

Concen: 0.824 ug/l

RT: 9.682 min Scan# 1313

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

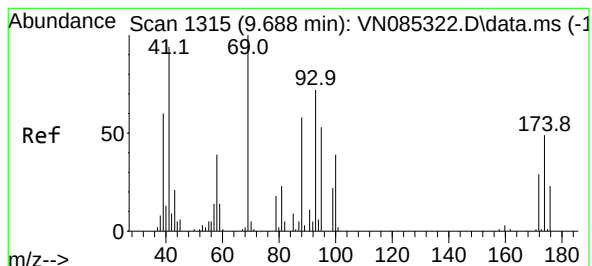
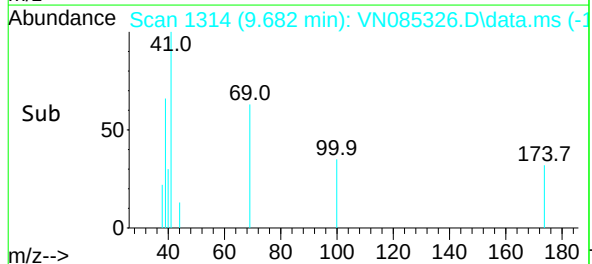
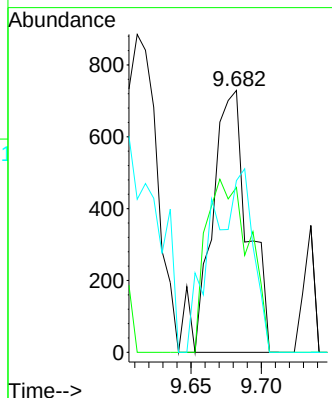
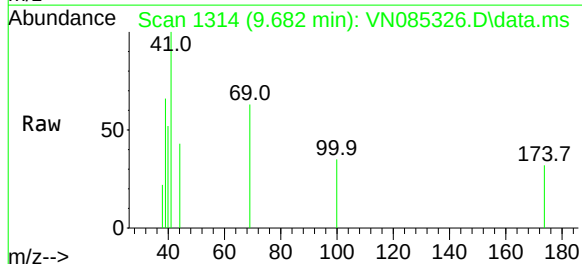
Tgt Ion:	41	Resp:	1319
Ion	Ratio	Lower	Upper
41	100		
69	77.6	67.7	101.5
39	78.5	51.2	76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#49

1,4-Dioxane

Concen: 12.421 ug/l m

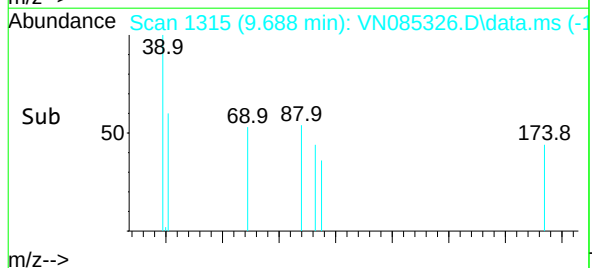
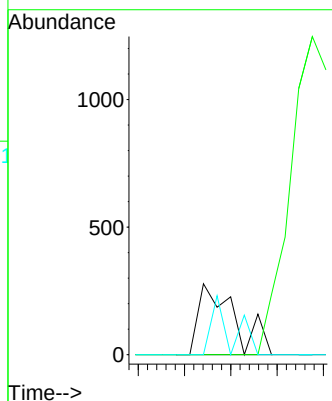
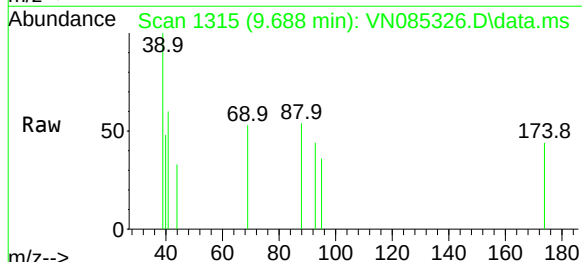
RT: 9.688 min Scan# 1315

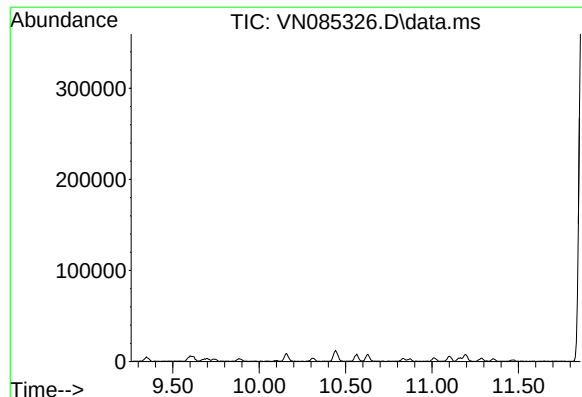
Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Tgt Ion:	88	Resp:	300
Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.1	33.1
58	45.3	56.7	85.1





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

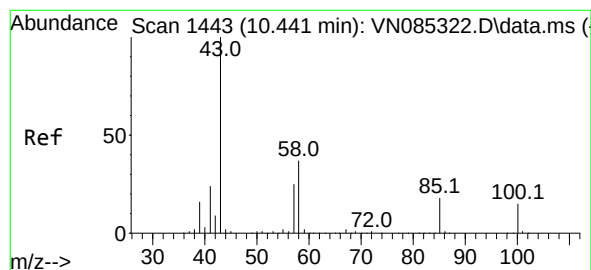
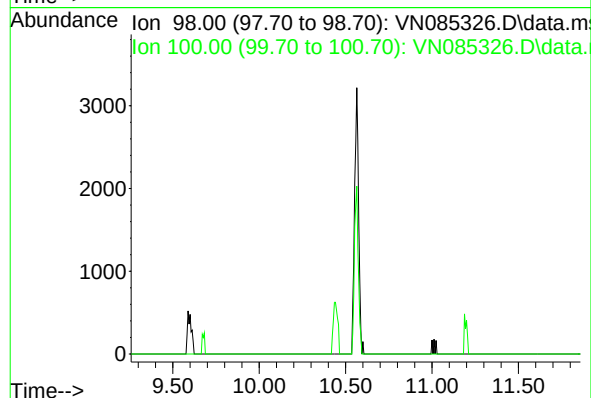
Lab File: VN085326.D
Acq: 27 Dec 2024 12:48

Tgt Ion: 98
Sig Exp Ratio
98 100
100 64.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

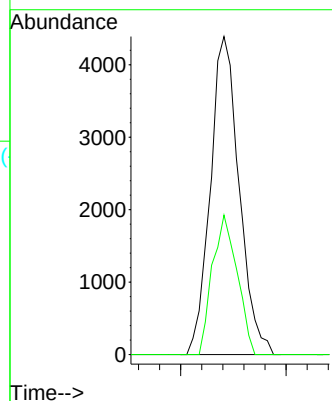
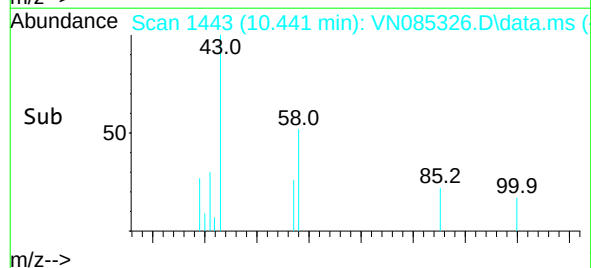
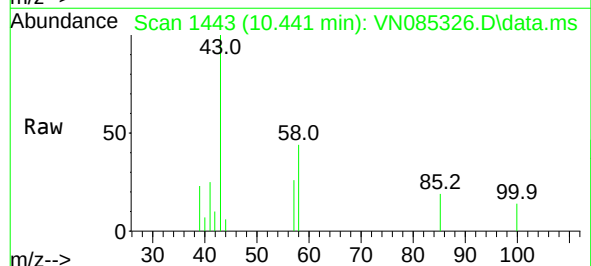
Manual Integrations
APPROVED

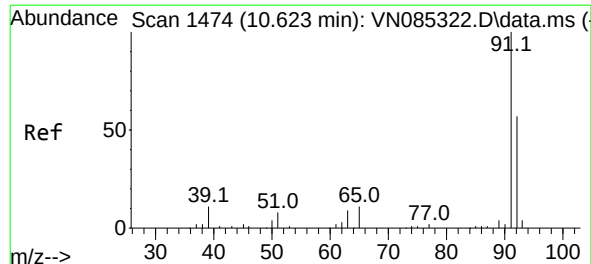
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#51
4-Methyl-2-Pentanone
Concen: 4.021 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085326.D
Acq: 27 Dec 2024 12:48

Tgt Ion: 43 Resp: 8337
Ion Ratio Lower Upper
43 100
58 37.7 30.3 45.5





#52

Toluene

Concen: 0.820 ug/l

RT: 10.629 min Scan# 1474

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 92 Resp: 3329

Ion Ratio Lower Upper

92 100

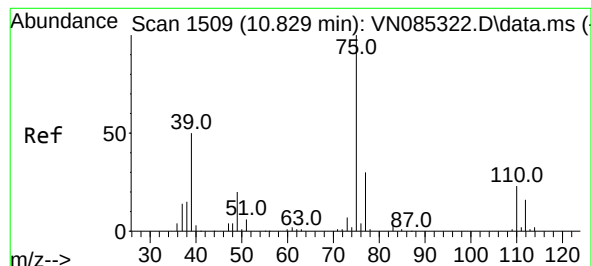
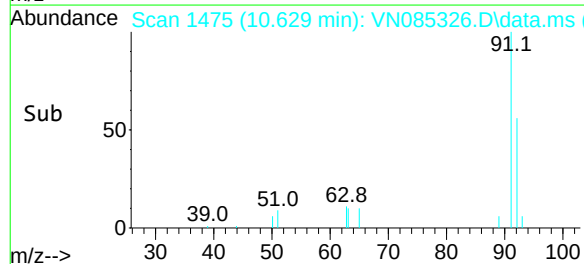
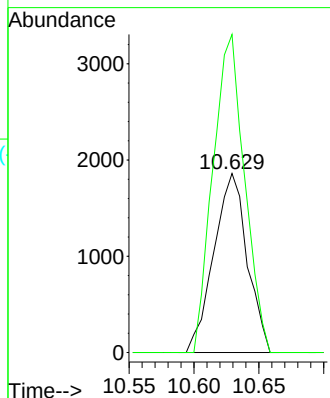
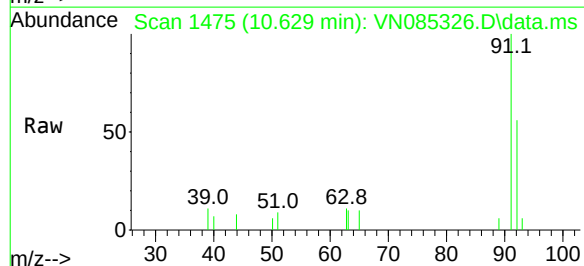
91 168.0 140.2 210.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#53

t-1,3-Dichloropropene

Concen: 0.799 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VN085326.D

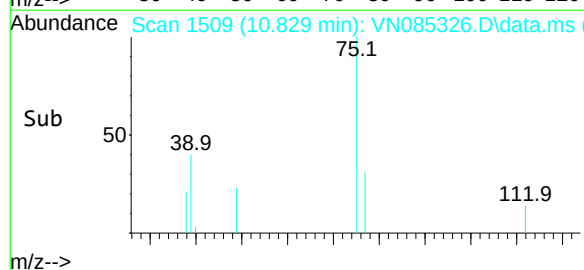
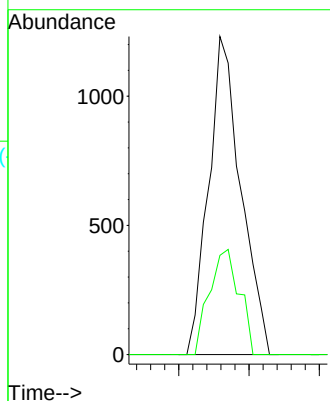
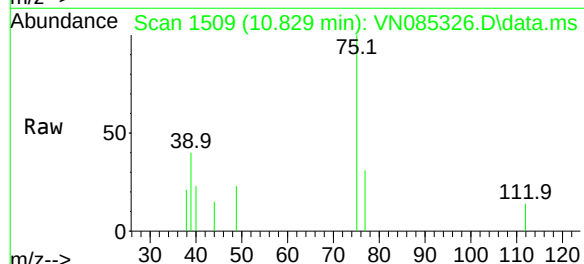
Acq: 27 Dec 2024 12:48

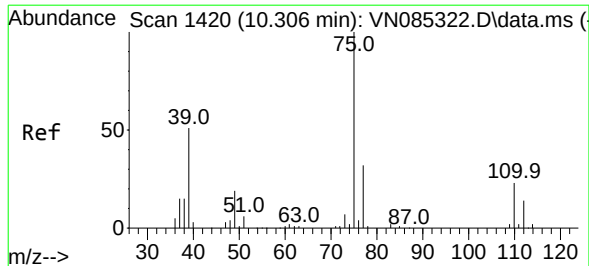
Tgt Ion: 75 Resp: 1964

Ion Ratio Lower Upper

75 100

77 31.2 23.8 35.6





#54

cis-1,3-Dichloropropene

Concen: 0.848 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VN085326.D

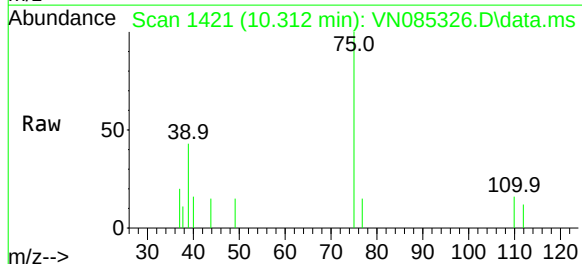
Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

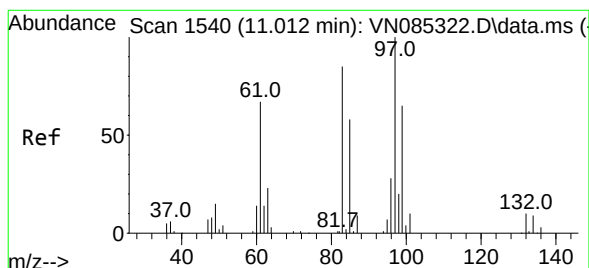
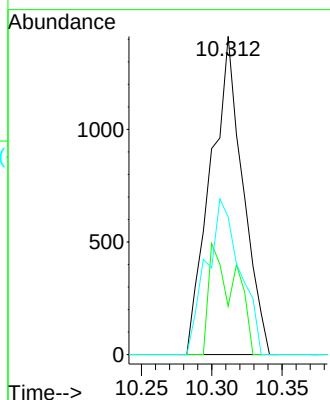
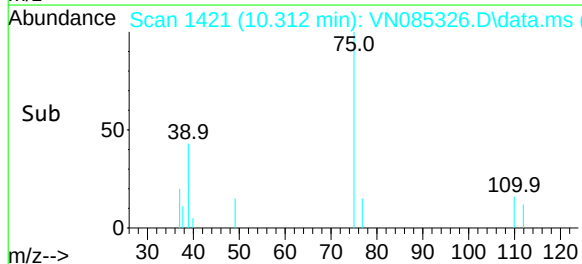
VSTDIC001



Tgt Ion:	75	Resp:	2254
Ion	Ratio	Lower	Upper
75	100		
77	15.2	25.5	38.3
39	43.2	40.5	60.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#55

1,1,2-Trichloroethane

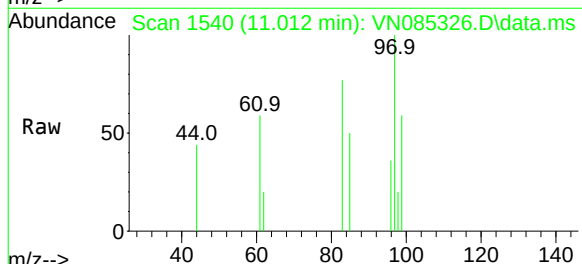
Concen: 0.957 ug/l

RT: 11.012 min Scan# 1540

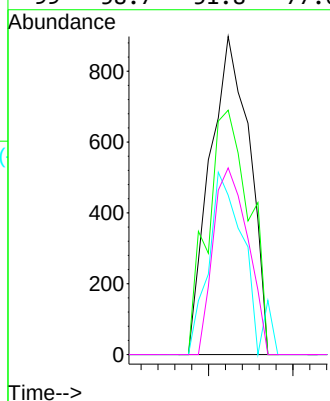
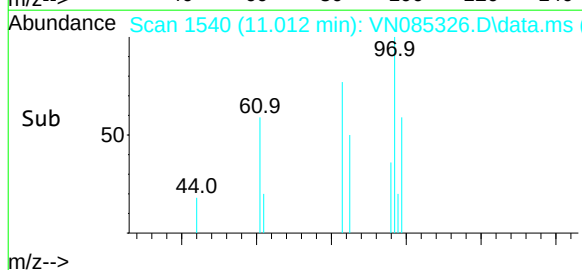
Delta R.T. -0.000 min

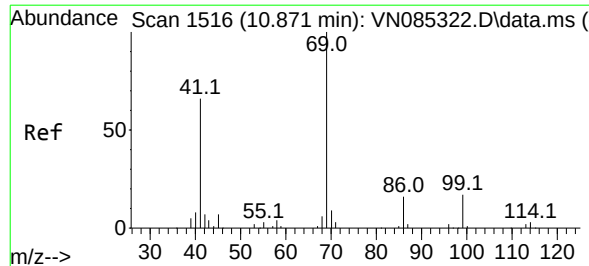
Lab File: VN085326.D

Acq: 27 Dec 2024 12:48



Tgt Ion:	97	Resp:	1466
Ion	Ratio	Lower	Upper
97	100		
83	76.8	67.7	101.5
85	50.1	46.2	69.4
99	58.7	51.8	77.6





#56

Ethyl methacrylate

Concen: 0.717 ug/l

RT: 10.876 min Scan# 1516

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

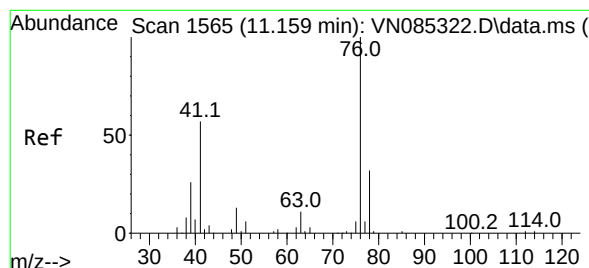
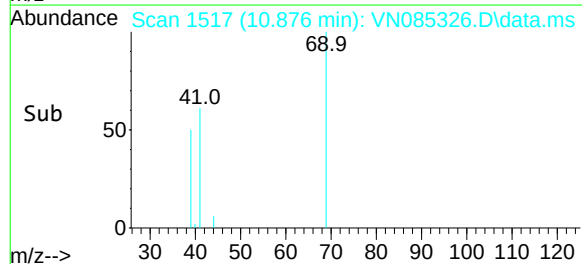
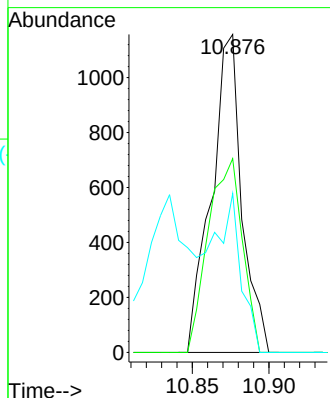
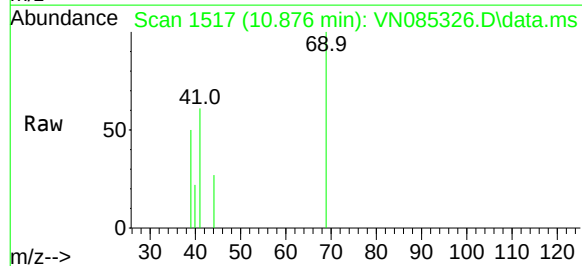
Tgt Ion:	69	Resp:	1600
Ion	Ratio	Lower	Upper
69	100		
41	68.1	54.3	81.5
39	39.8	32.0	48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#57

1,3-Dichloropropane

Concen: 0.858 ug/l

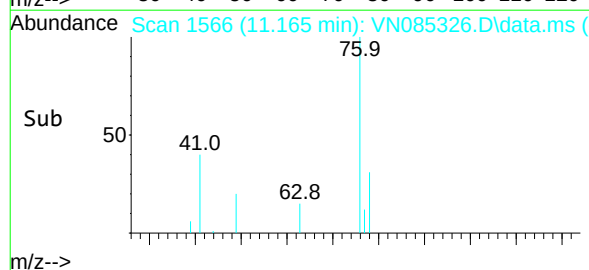
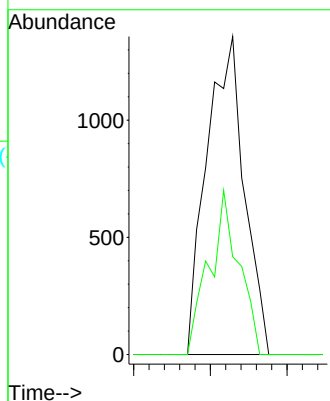
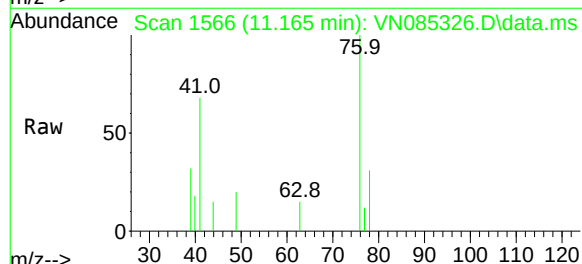
RT: 11.165 min Scan# 1566

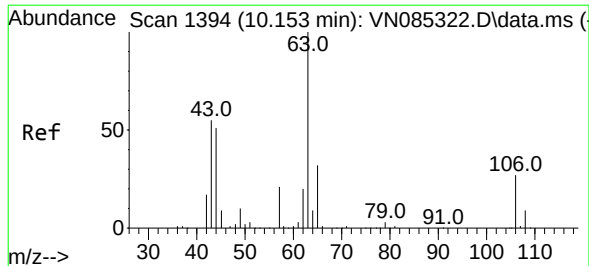
Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Tgt Ion:	76	Resp:	2306
Ion	Ratio	Lower	Upper
76	100		
78	40.8	25.5	38.3





#58

2-Chloroethyl Vinyl ether

Concen: 3.321 ug/l

RT: 10.165 min Scan# 1394

Delta R.T. 0.012 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 63 Resp: 3585

Ion Ratio Lower Upper

63 100

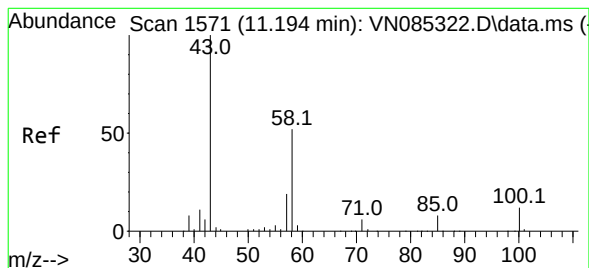
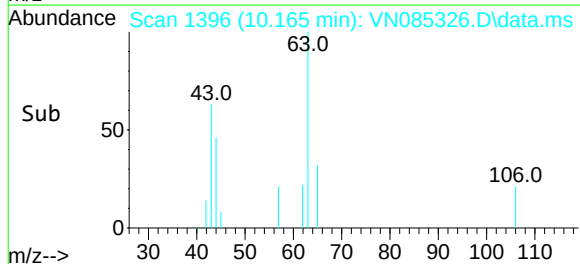
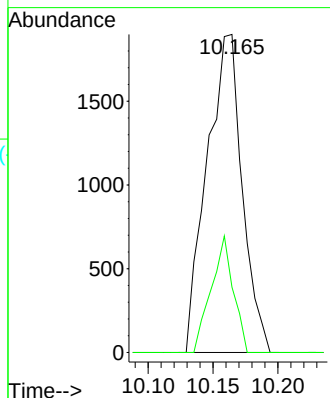
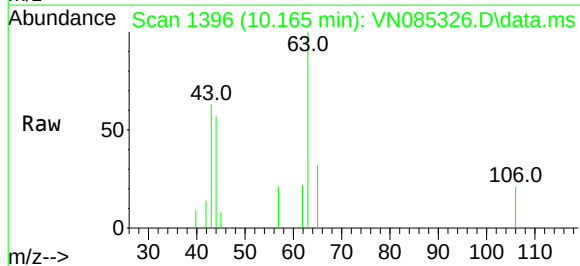
106 23.0 22.1 33.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#59

2-Hexanone

Concen: 3.877 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN085326.D

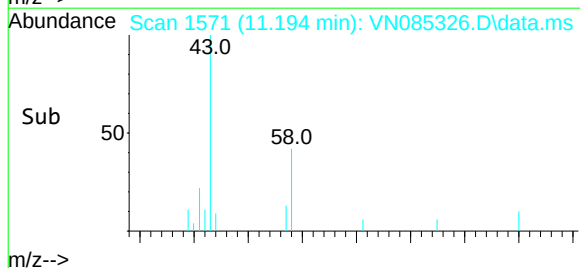
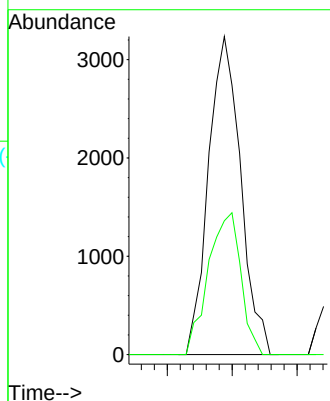
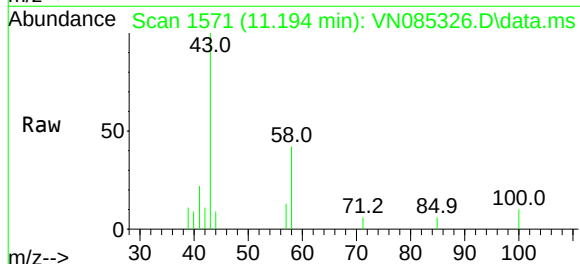
Acq: 27 Dec 2024 12:48

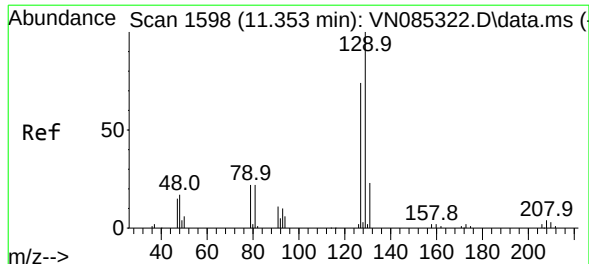
Tgt Ion: 43 Resp: 5577

Ion Ratio Lower Upper

43 100

58 45.0 26.5 79.5





#60

Dibromochloromethane

Concen: 0.770 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:129 Resp: 1329

Ion Ratio Lower Upper

129 100

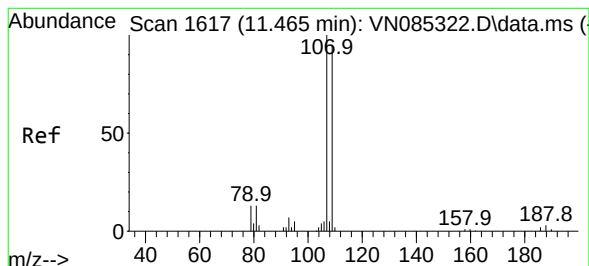
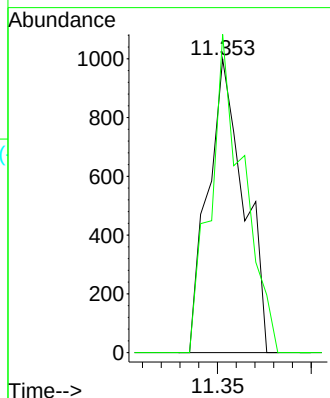
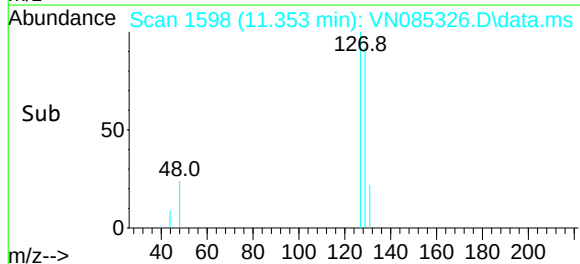
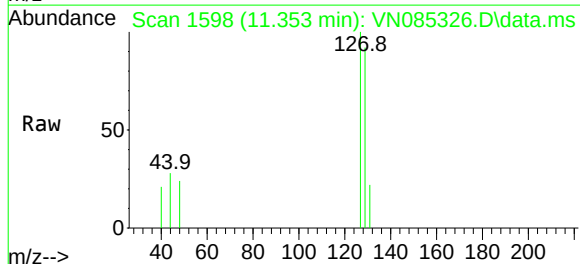
127 100.5 38.3 114.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#61

1,2-Dibromoethane

Concen: 0.856 ug/l

RT: 11.470 min Scan# 1618

Delta R.T. 0.006 min

Lab File: VN085326.D

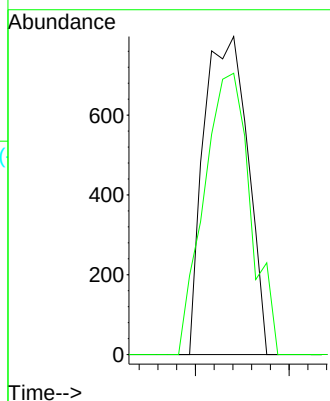
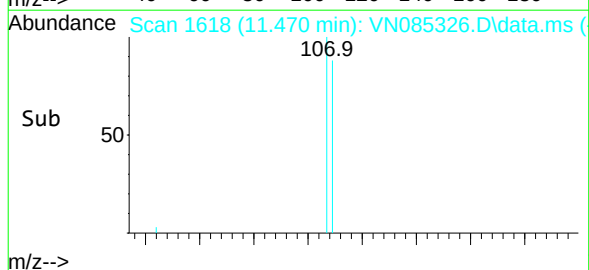
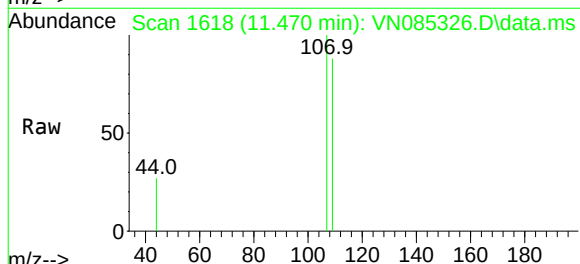
Acq: 27 Dec 2024 12:48

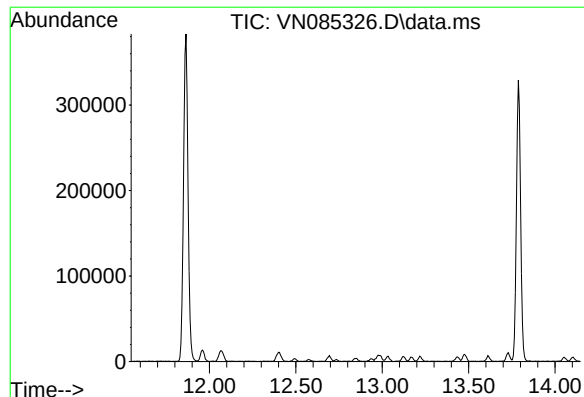
Tgt Ion:107 Resp: 1298

Ion Ratio Lower Upper

107 100

109 93.6 74.9 112.3





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

Lab File: VN085326.D
Acq: 27 Dec 2024 12:48

Tgt Ion:	95
Sig	Exp Ratio
95	100
174	71.6
176	67.9

Instrument :

MSVOA_N

ClientSampleId :

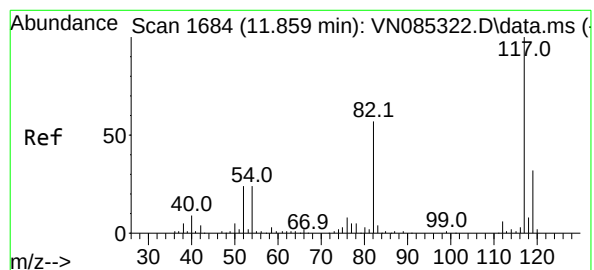
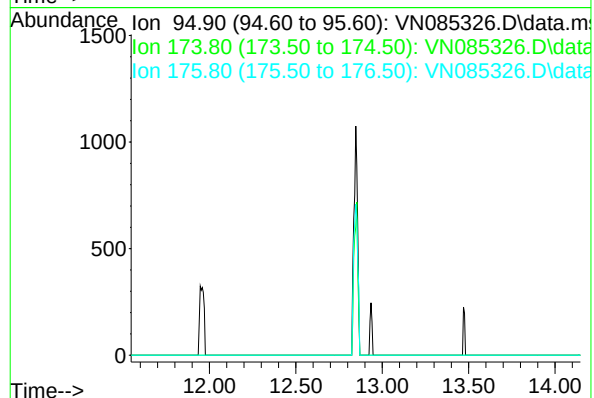
VSTDICC001

Manual Integrations

APPROVED

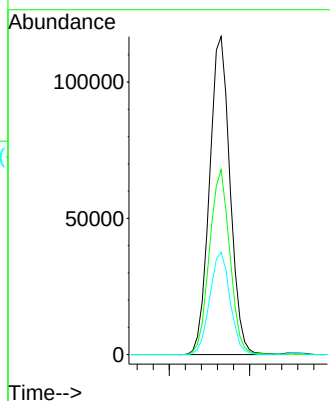
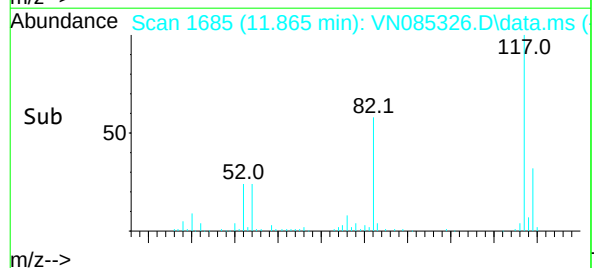
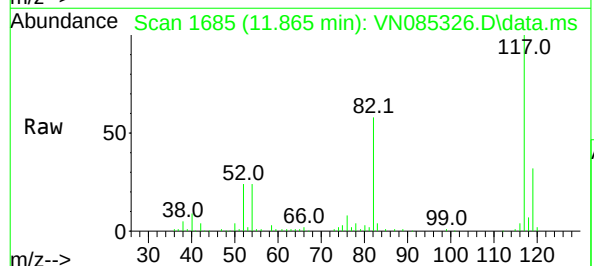
Reviewed By :John Carlone 12/30/2024

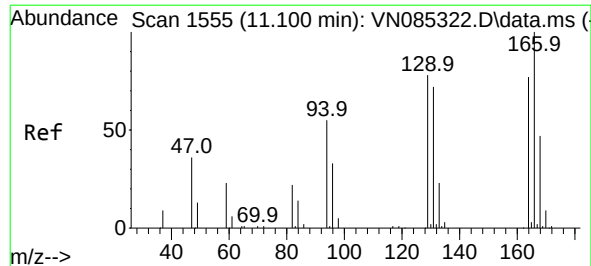
Supervised By :Mahesh Dadoda 12/30/2024



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085326.D
Acq: 27 Dec 2024 12:48

Tgt Ion:	117	Resp:	207418
Ion	Ratio	Lower	Upper
117	100		
82	58.2	45.7	68.5
119	32.1	25.8	38.8





#64

Tetrachloroethene

Concen: 0.851 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:164 Resp: 1118

Ion Ratio Lower Upper

164 100

166 174.4 104.0 156.0#

129 97.4 81.3 121.9

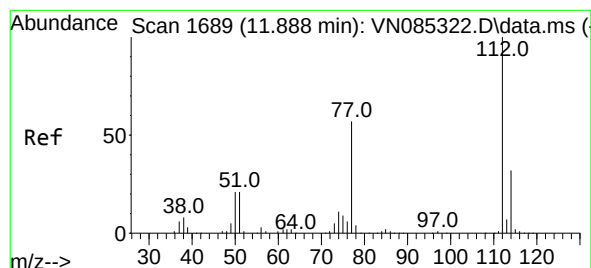
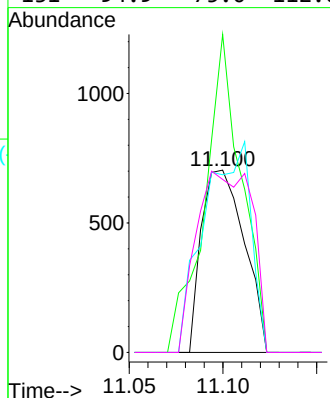
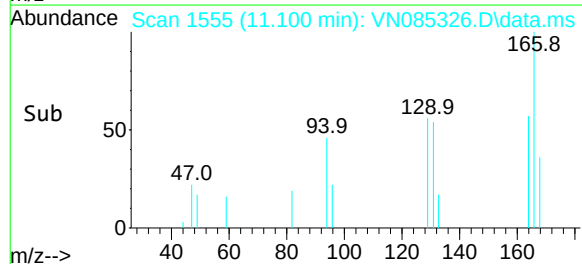
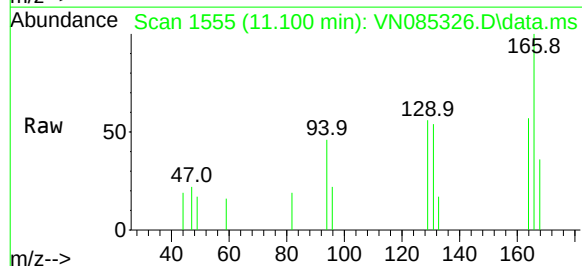
131 94.9 75.0 112.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#65

Chlorobenzene

Concen: 1.041 ug/l

RT: 11.882 min Scan# 1688

Delta R.T. -0.006 min

Lab File: VN085326.D

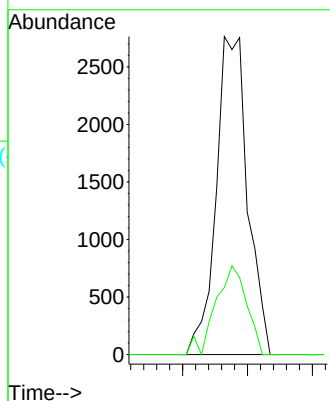
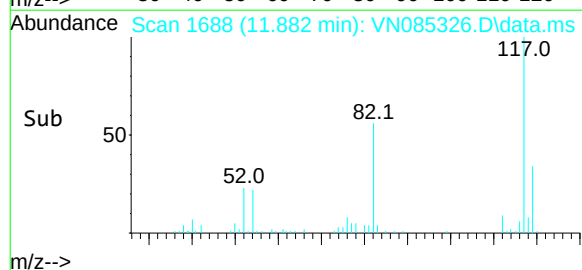
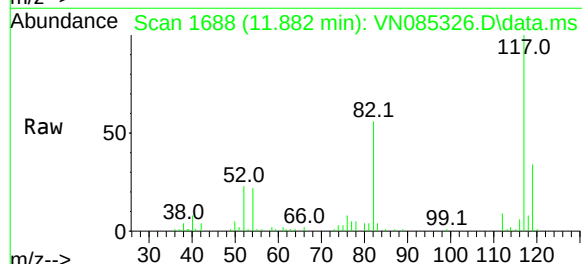
Acq: 27 Dec 2024 12:48

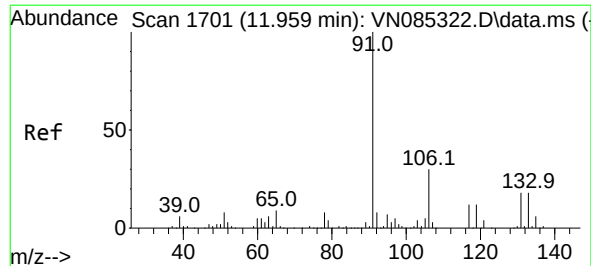
Tgt Ion:112 Resp: 4664

Ion Ratio Lower Upper

112 100

114 21.1 25.2 37.8#





#66

1,1,1,2-Tetrachloroethane

Concen: 0.962 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

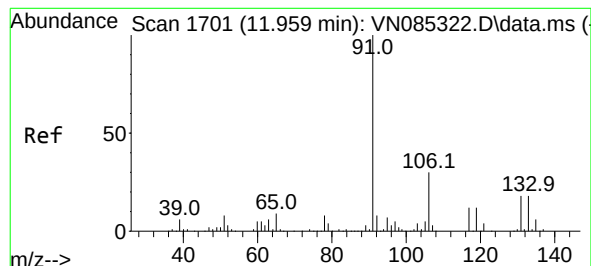
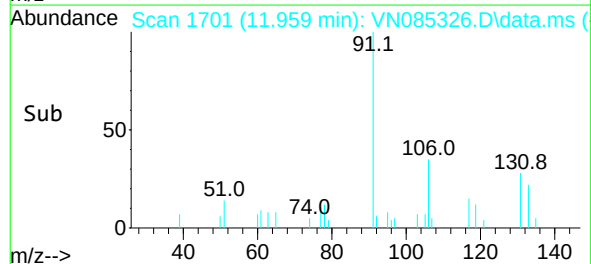
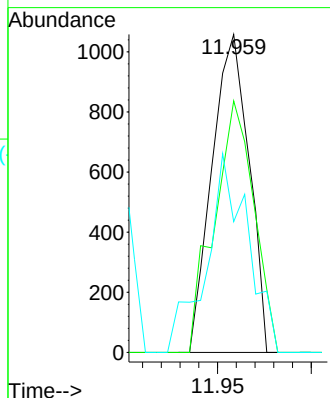
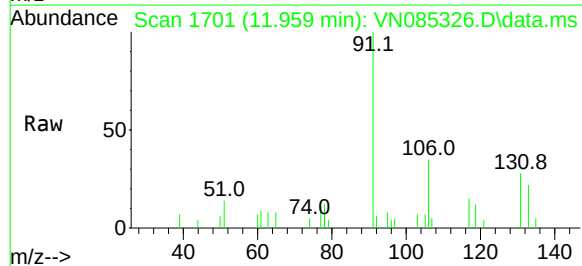
Tgt Ion:	131	Resp:	1447
Ion	Ratio	Lower	Upper
131	100		
133	85.4	48.3	144.9
119	0.0	33.4	100.1#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#67

Ethyl Benzene

Concen: 0.860 ug/l

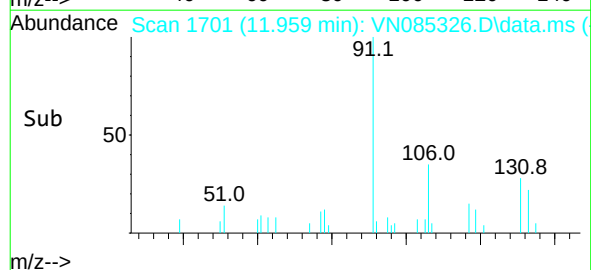
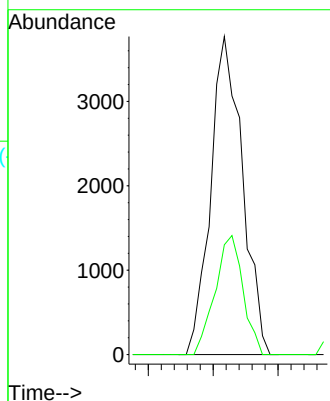
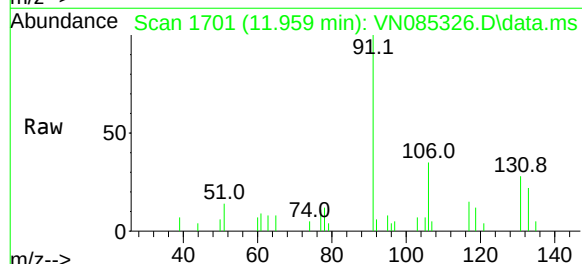
RT: 11.959 min Scan# 1701

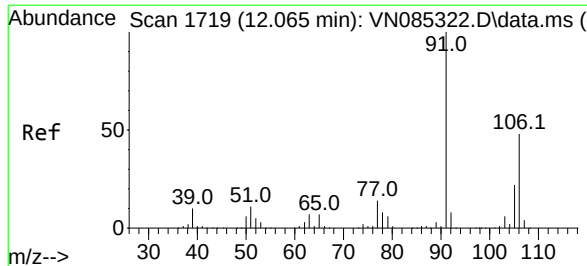
Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Tgt Ion:	91	Resp:	6412
Ion	Ratio	Lower	Upper
91	100		
106	34.5	24.0	36.0





#68

m/p-Xylenes

Concen: 1.439 ug/l

RT: 12.064 min Scan# 1719

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:106 Resp: 3925

Ion Ratio Lower Upper

106 100

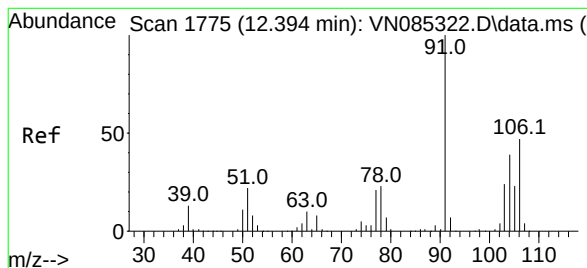
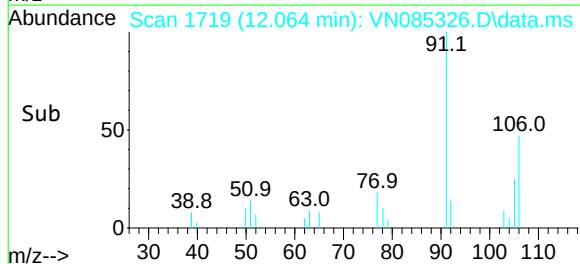
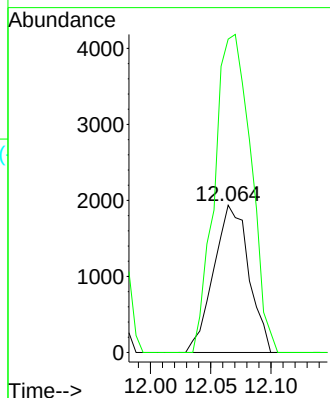
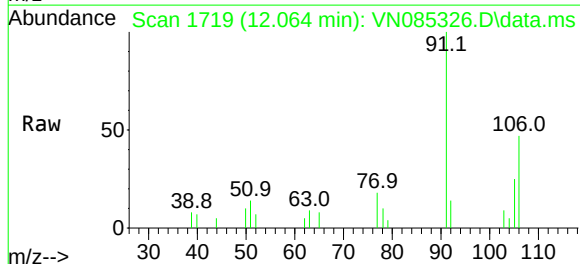
91 223.6 165.2 247.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#69

o-Xylene

Concen: 0.792 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085326.D

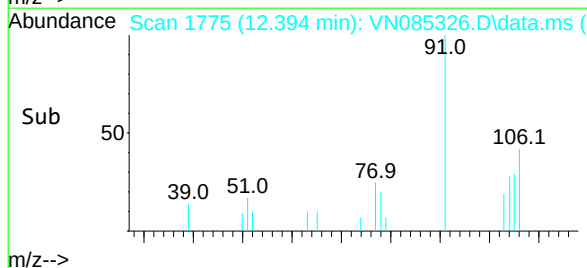
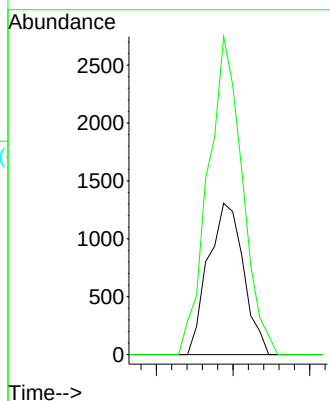
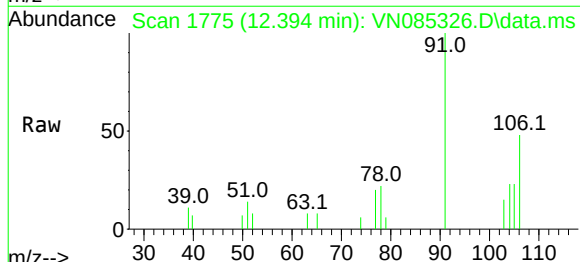
Acq: 27 Dec 2024 12:48

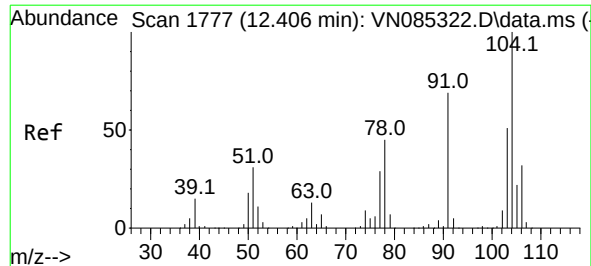
Tgt Ion:106 Resp: 2091

Ion Ratio Lower Upper

106 100

91 204.8 107.3 321.8





#70

Styrene

Concen: 0.708 ug/l

RT: 12.417 min Scan# 1777

Delta R.T. 0.012 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

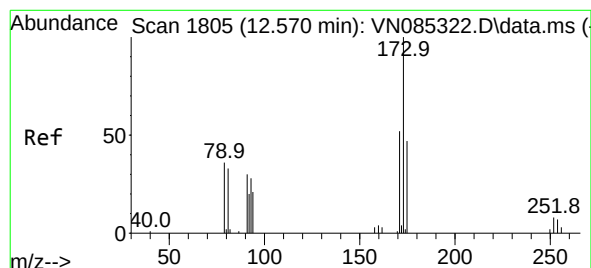
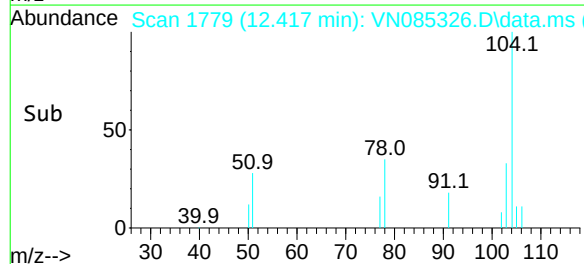
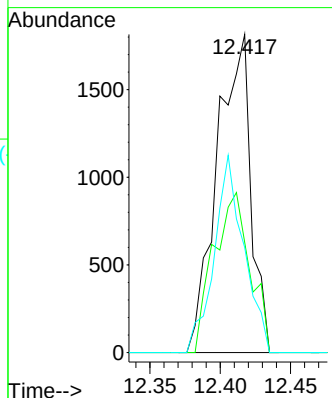
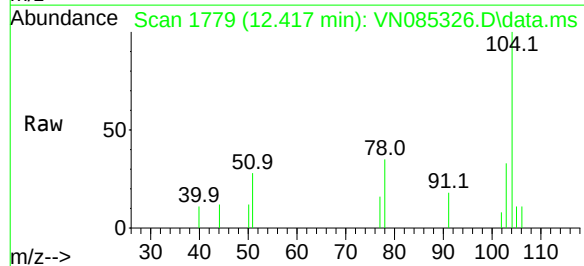
Tgt Ion:	104	Resp:	3030
Ion	Ratio	Lower	Upper
104	100		
78	54.2	40.7	61.1
103	54.3	44.1	66.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#71

Bromoform

Concen: 0.824 ug/l

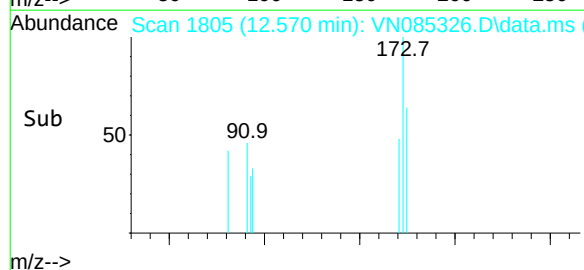
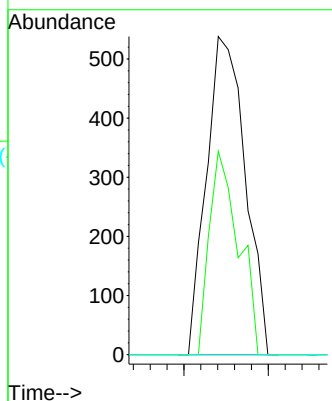
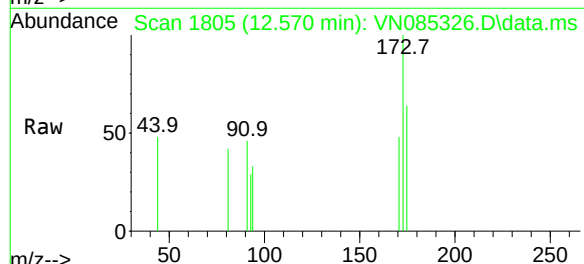
RT: 12.570 min Scan# 1805

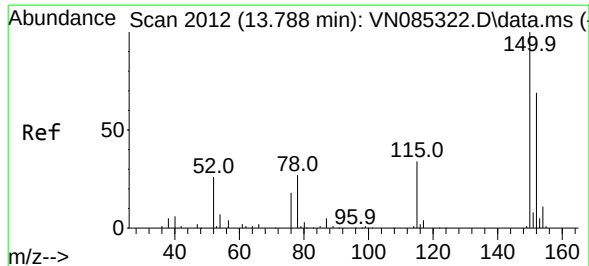
Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Tgt Ion:	173	Resp:	859
Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.4	73.4
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:152 Resp: 81571

Ion Ratio Lower Upper

152 100

115 65.2 30.4 91.3

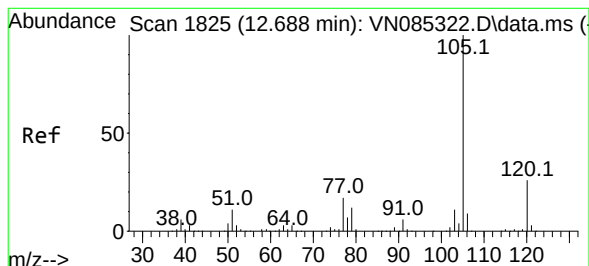
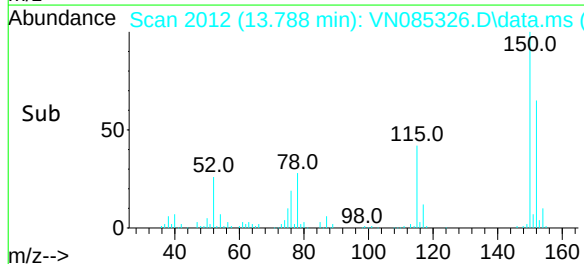
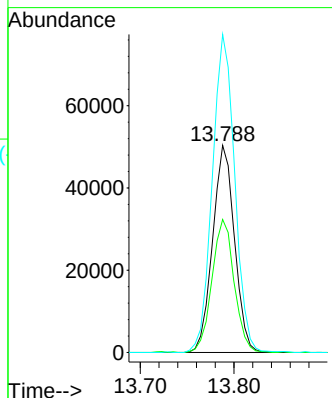
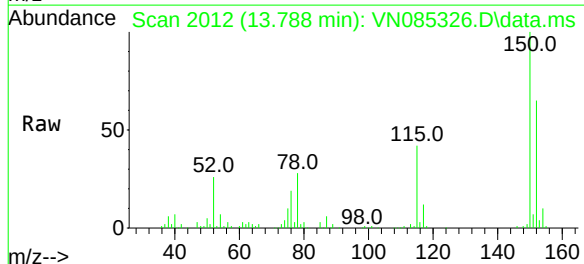
150 157.3 0.0 345.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#73

Isopropylbenzene

Concen: 0.744 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.006 min

Lab File: VN085326.D

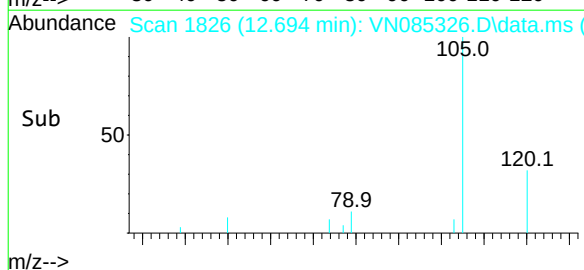
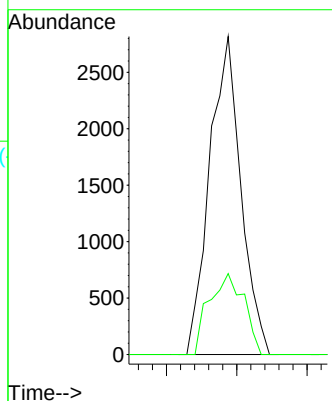
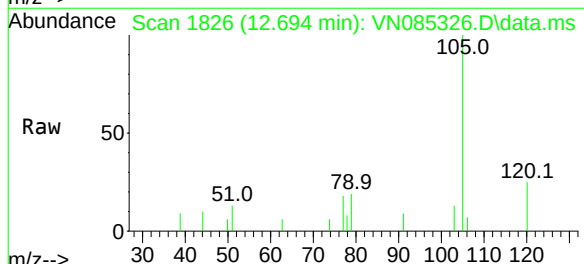
Acq: 27 Dec 2024 12:48

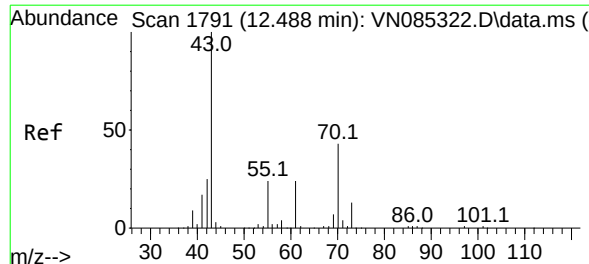
Tgt Ion:105 Resp: 4362

Ion Ratio Lower Upper

105 100

120 28.2 12.9 38.6





#74

N-amy1 acetate

Concen: 0.831 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 2086

Ion Ratio Lower Upper

43 100

70 32.3 33.4 50.0#

55 23.4 19.2 28.8

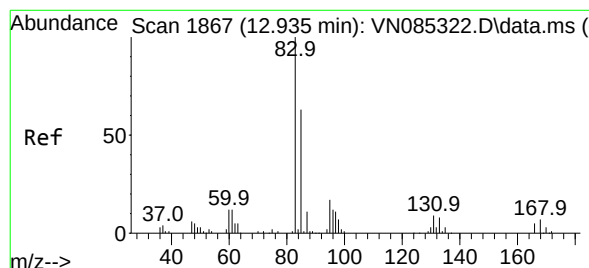
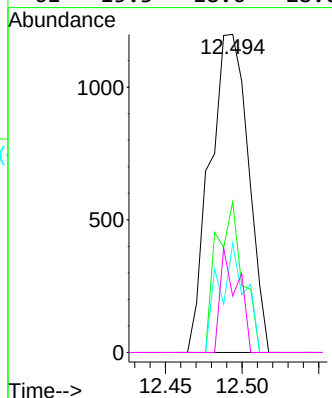
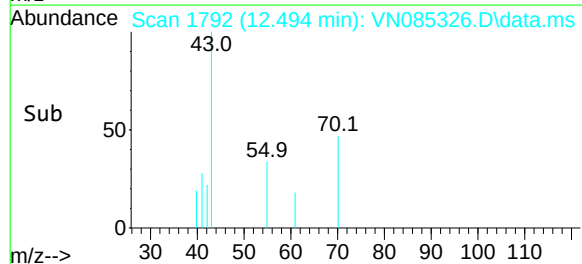
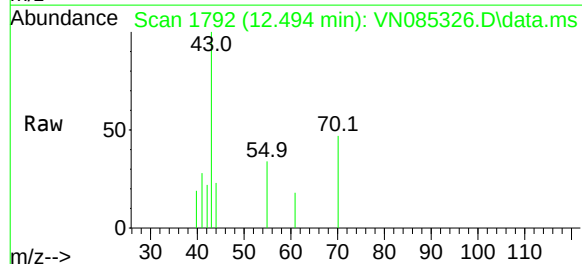
61 15.3 18.6 28.0#

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#75

1,1,2,2-Tetrachloroethane

Concen: 1.049 ug/l

RT: 12.941 min Scan# 1868

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

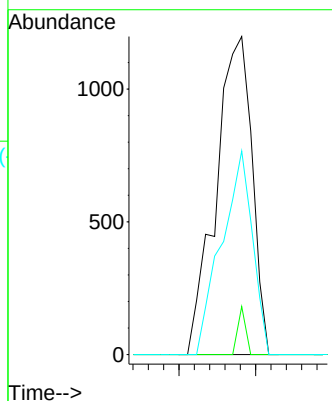
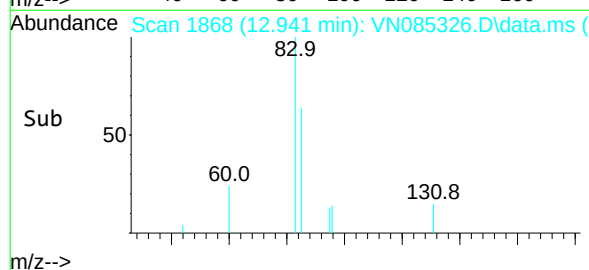
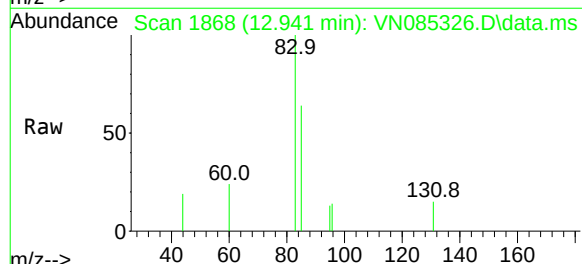
Tgt Ion: 83 Resp: 1959

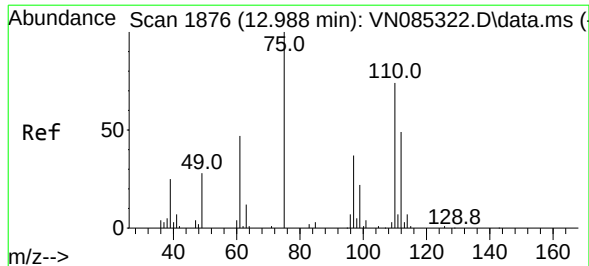
Ion Ratio Lower Upper

83 100

131 3.3 4.8 14.4#

85 54.9 32.6 98.0





#76

1,2,3-Trichloropropane

Concen: 1.154 ug/l m

RT: 12.988 min Scan# 18

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 1809

Ion Ratio Lower Upper

75 100

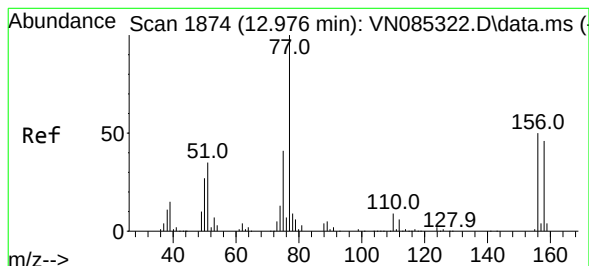
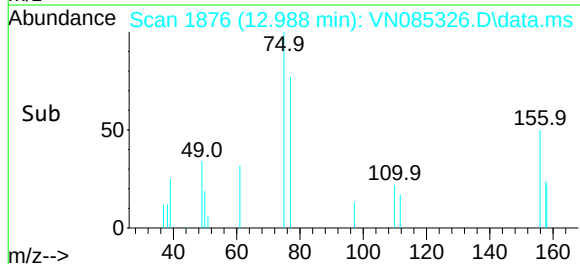
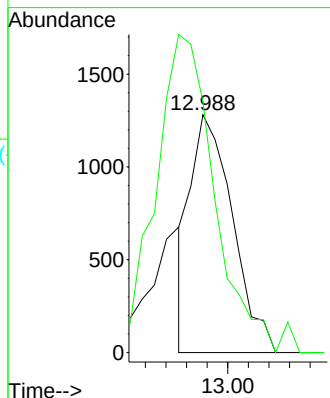
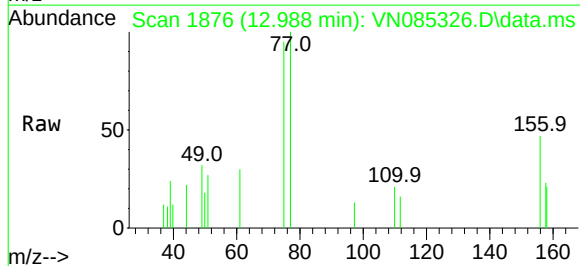
77 188.8 98.1 294.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#77

Bromobenzene

Concen: 1.062 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

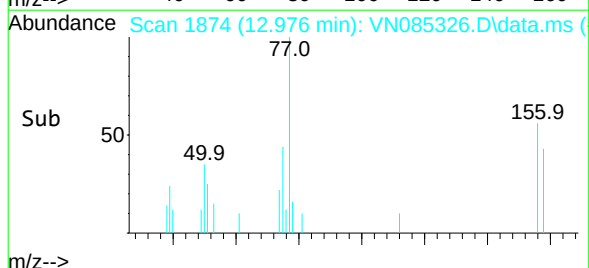
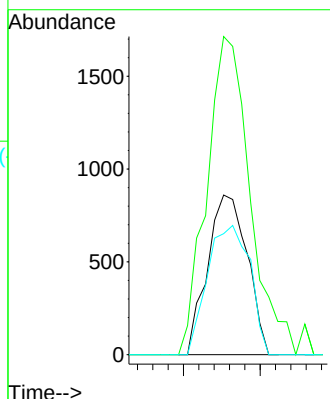
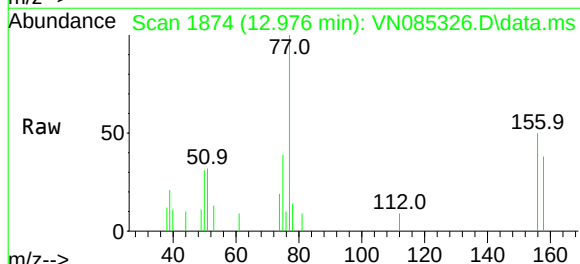
Tgt Ion:156 Resp: 1544

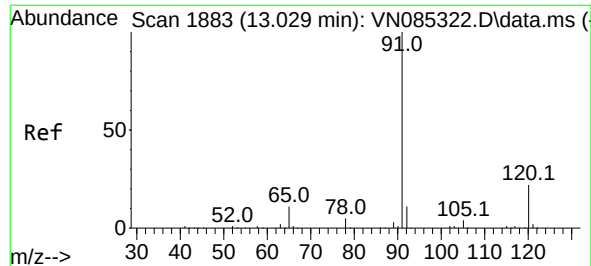
Ion Ratio Lower Upper

156 100

77 221.2 114.0 342.0

158 86.7 47.6 142.8





#78

n-propylbenzene

Concen: 0.774 ug/l

RT: 13.029 min Scan# 1883

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 91 Resp: 5290

Ion Ratio Lower Upper

91 100

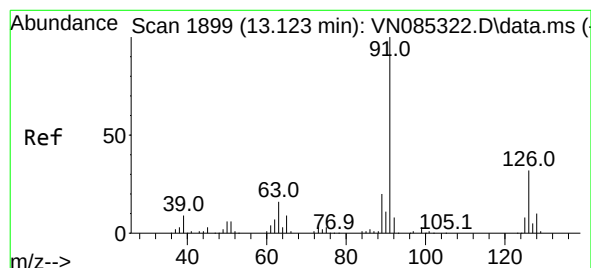
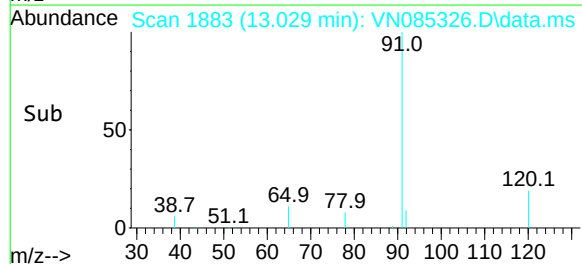
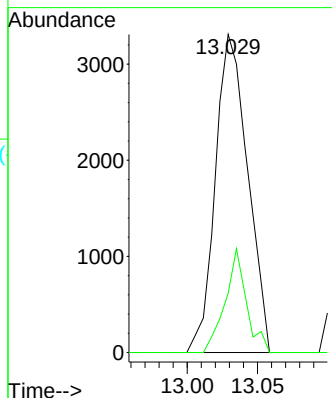
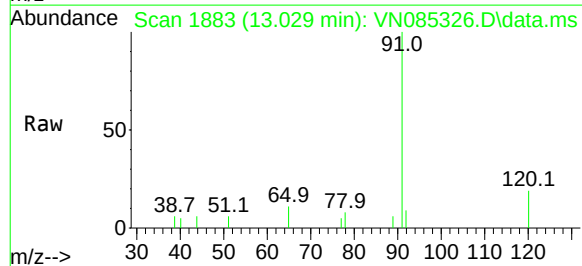
120 21.4 10.9 32.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#79

2-Chlorotoluene

Concen: 0.818 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085326.D

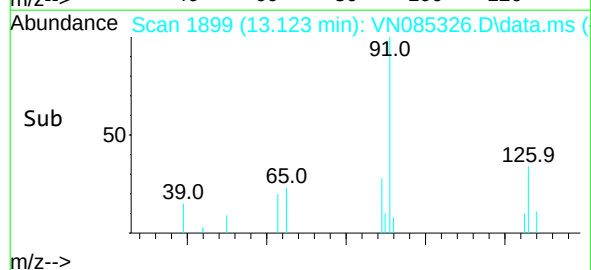
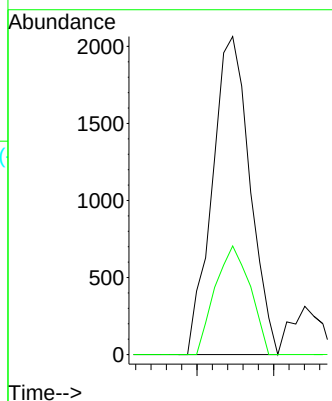
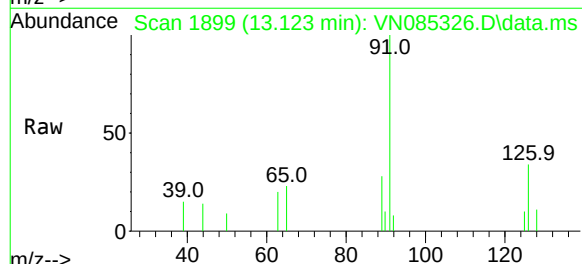
Acq: 27 Dec 2024 12:48

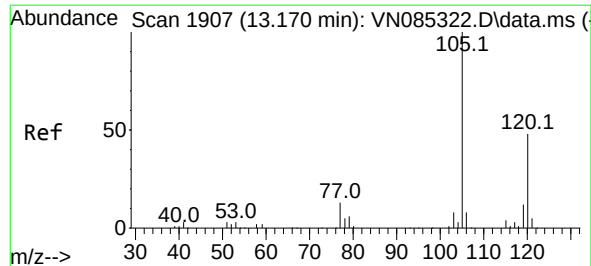
Tgt Ion: 91 Resp: 3518

Ion Ratio Lower Upper

91 100

126 31.8 16.0 48.0





#80

1,3,5-Trimethylbenzene

Concen: 0.712 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 105 Resp: 3380

Ion Ratio Lower Upper

105 100

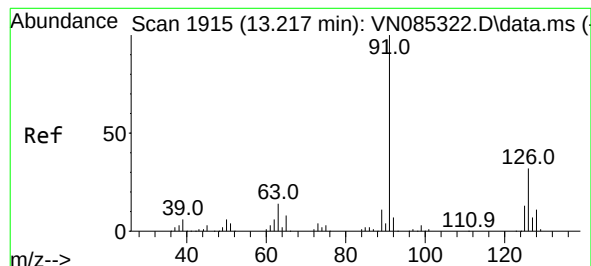
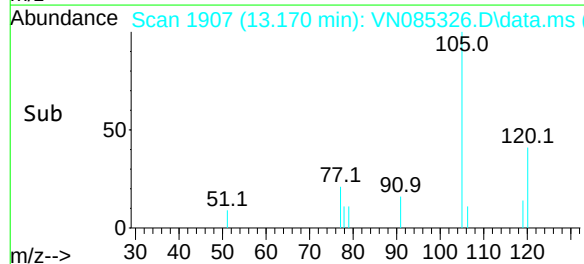
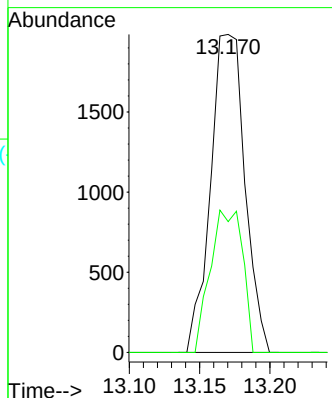
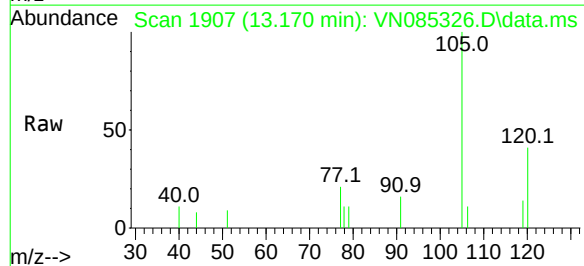
120 42.0 24.0 72.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#82

4-Chlorotoluene

Concen: 0.869 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN085326.D

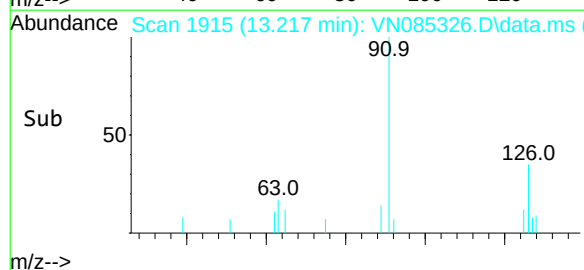
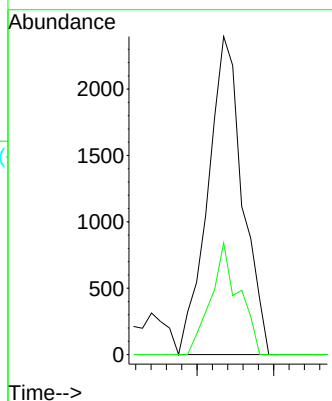
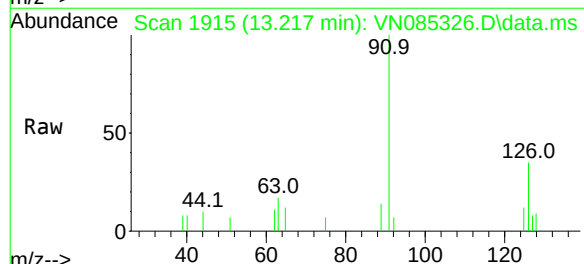
Acq: 27 Dec 2024 12:48

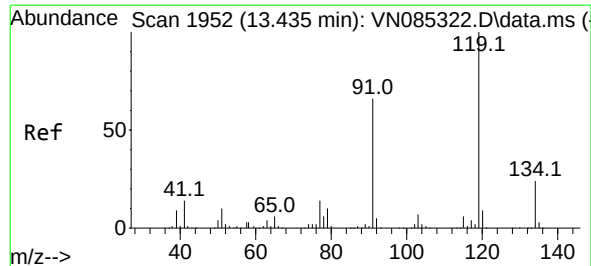
Tgt Ion: 91 Resp: 3768

Ion Ratio Lower Upper

91 100

126 28.3 16.4 49.4





#83

tert-Butylbenzene

Concen: 0.788 ug/l

RT: 13.441 min Scan# 19

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

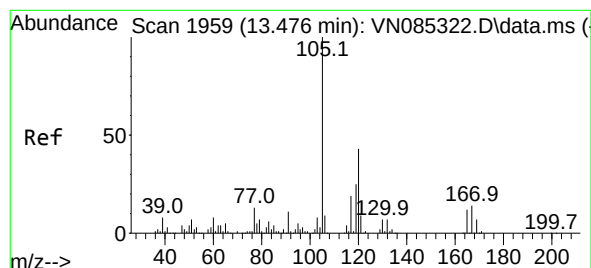
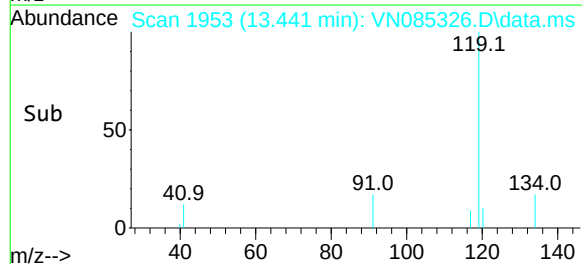
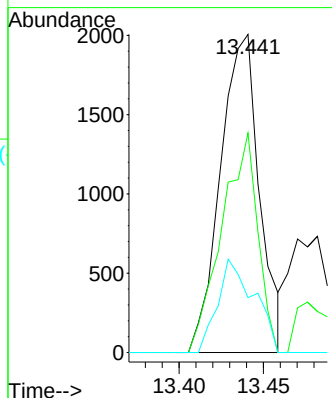
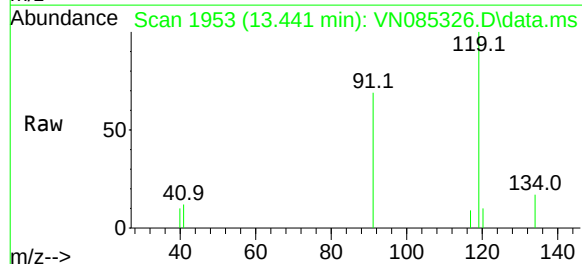
VSTDICC001

Tgt Ion:	119	Resp:	3239
Ion	Ratio	Lower	Upper
119	100		
91	63.3	33.6	100.8
134	27.3	13.3	39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#84

1,2,4-Trimethylbenzene

Concen: 0.707 ug/l

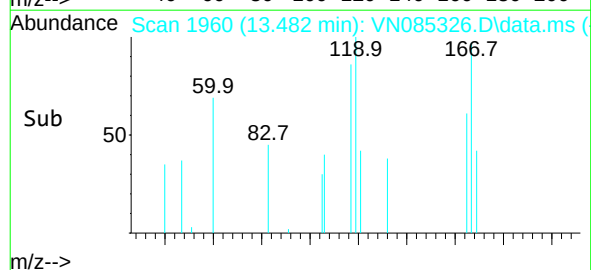
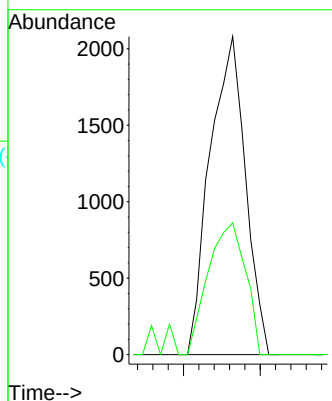
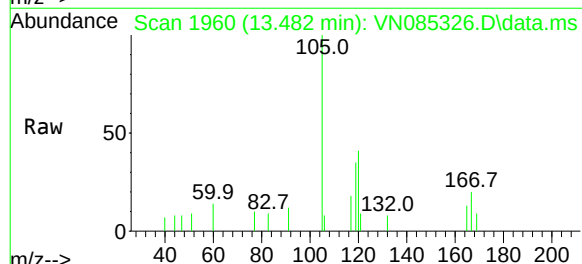
RT: 13.482 min Scan# 1960

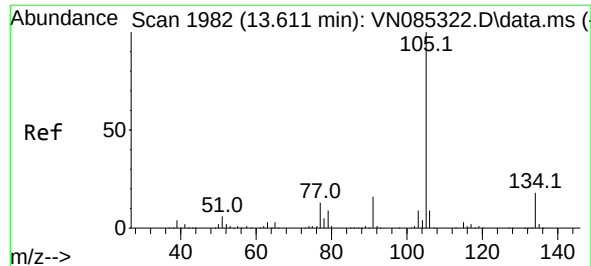
Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Tgt Ion:	105	Resp:	3339
Ion	Ratio	Lower	Upper
105	100		
120	43.8	21.7	65.1





#85

sec-Butylbenzene

Concen: 0.713 ug/l

RT: 13.611 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 4066

Ion Ratio Lower Upper

105 100

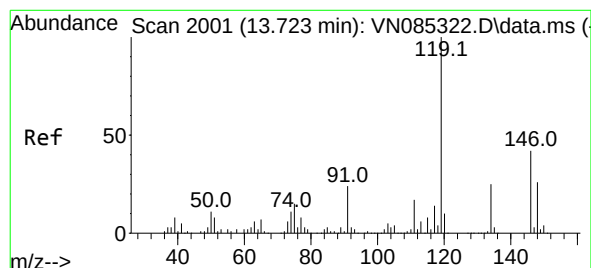
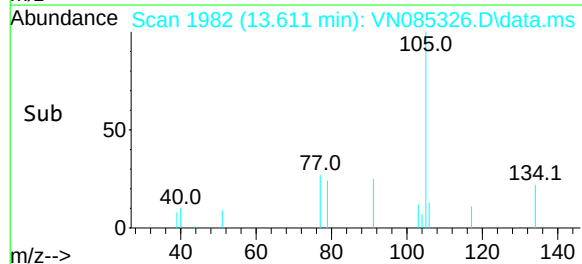
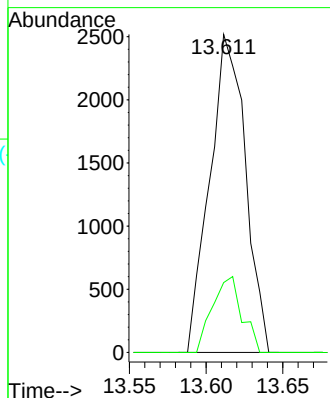
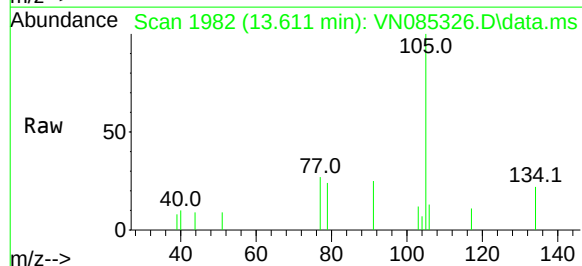
134 19.8 9.4 28.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#86

p-Isopropyltoluene

Concen: 0.798 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

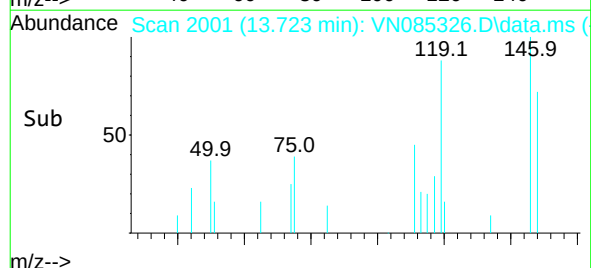
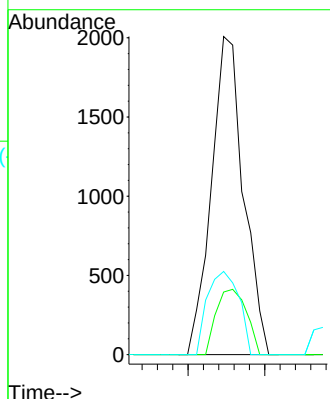
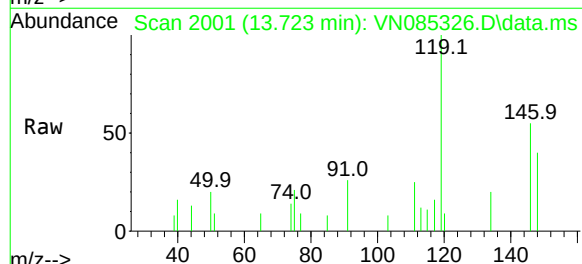
Tgt Ion:119 Resp: 2921

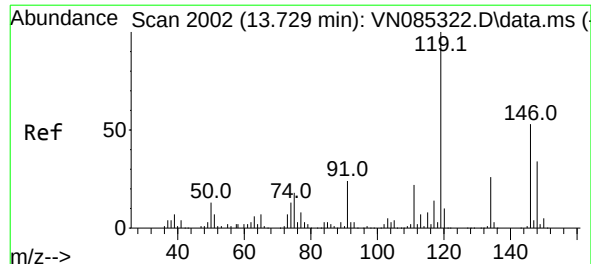
Ion Ratio Lower Upper

119 100

134 19.3 12.5 37.5

91 25.7 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 0.943 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

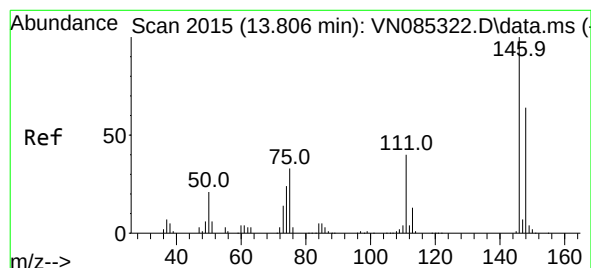
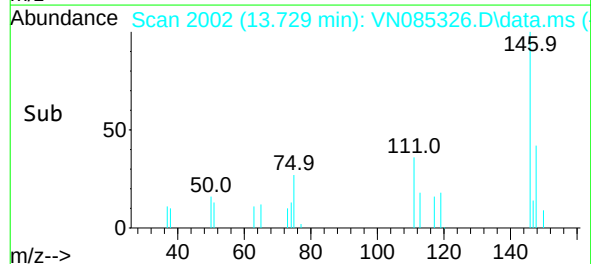
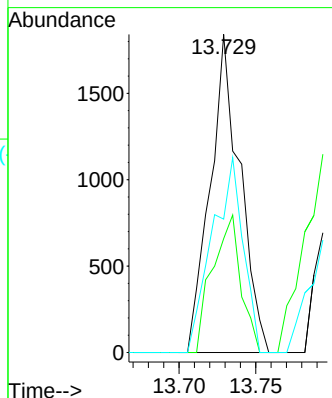
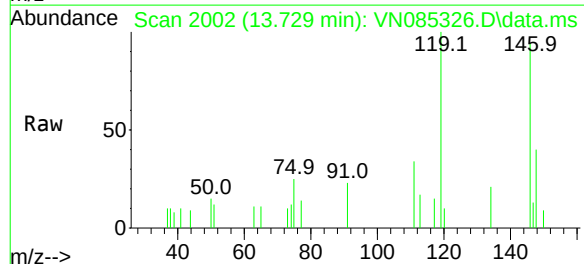
ClientSampleId :

VSTDIC001

Tgt Ion:	146	Resp:	2485
Ion Ratio	Lower	Upper	
146	100		
111	41.2	21.3	63.9
148	63.5	31.5	94.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#88

1,4-Dichlorobenzene

Concen: 1.044 ug/l m

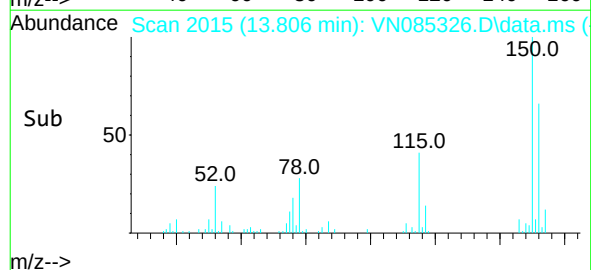
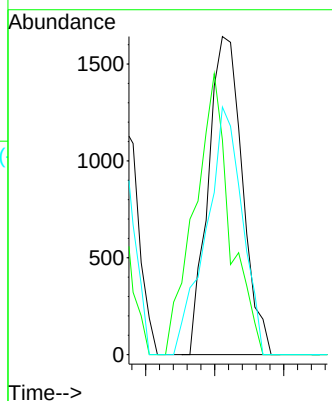
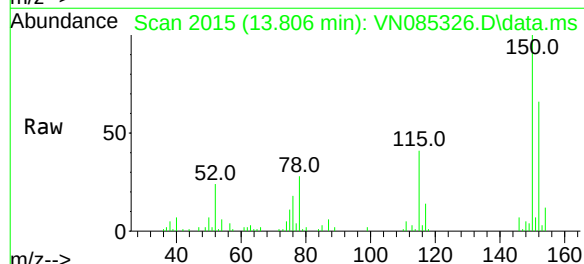
RT: 13.806 min Scan# 2015

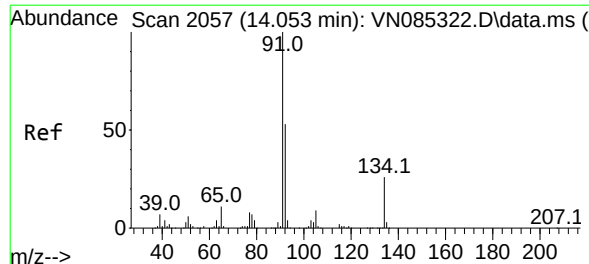
Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Tgt Ion:	146	Resp:	2825
Ion Ratio	Lower	Upper	
146	100		
111	36.2	20.8	62.5
148	55.8	31.7	95.1





#89

n-Butylbenzene

Concen: 0.833 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

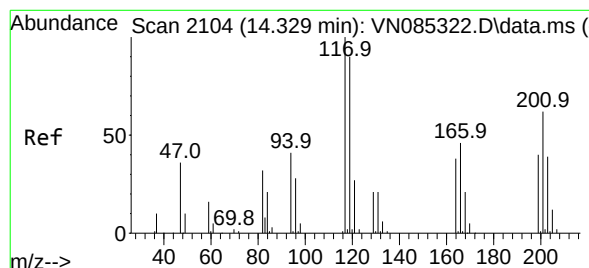
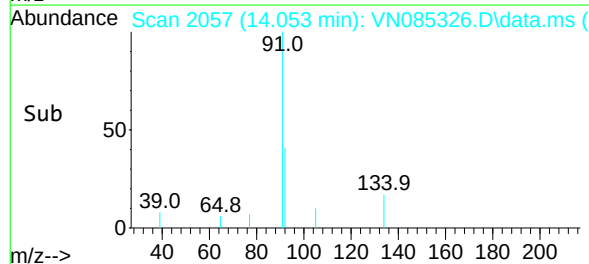
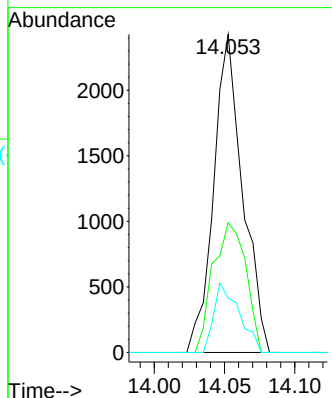
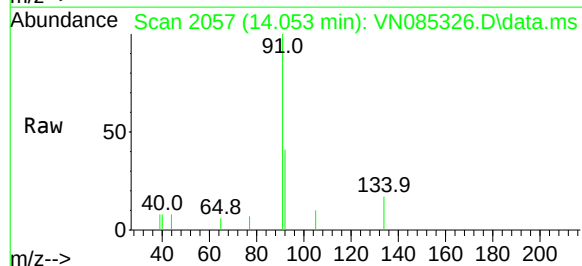
ClientSampleId :

VSTDICC001

Tgt Ion:	91	Resp:	3482
Ion	Ratio	Lower	Upper
91	100		
92	46.0	26.0	78.0
134	19.0	12.1	36.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#90

Hexachloroethane

Concen: 0.889 ug/l

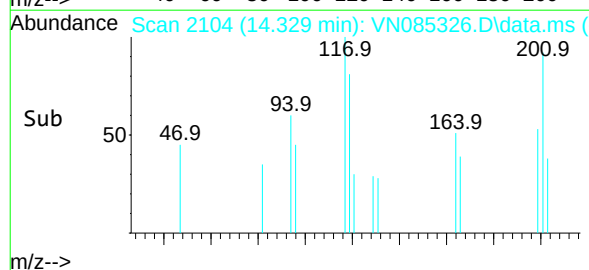
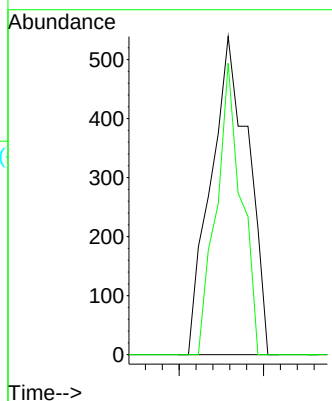
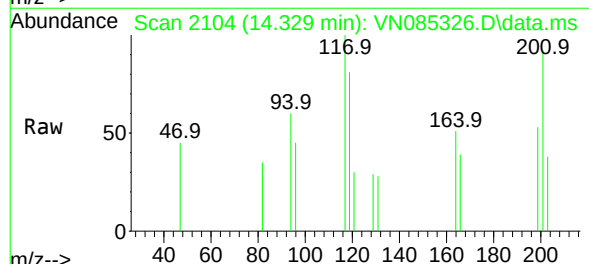
RT: 14.329 min Scan# 2104

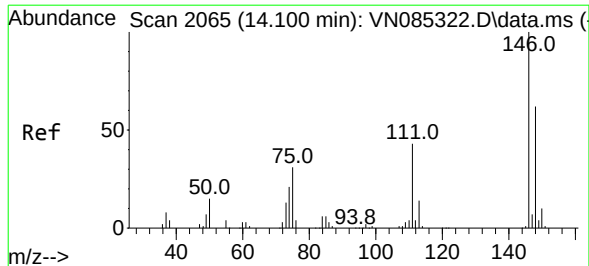
Delta R.T. -0.000 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Tgt Ion:	117	Resp:	831
Ion	Ratio	Lower	Upper
117	100		
201	61.0	30.7	92.1





#91

1,2-Dichlorobenzene

Concen: 0.899 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.006 min

Lab File: VN085326.D

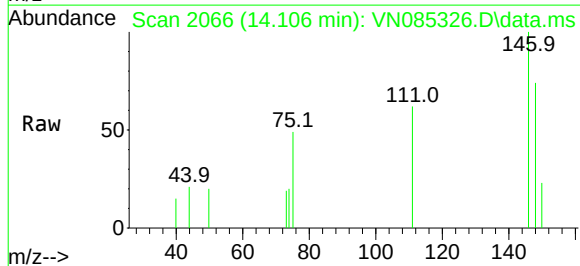
Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

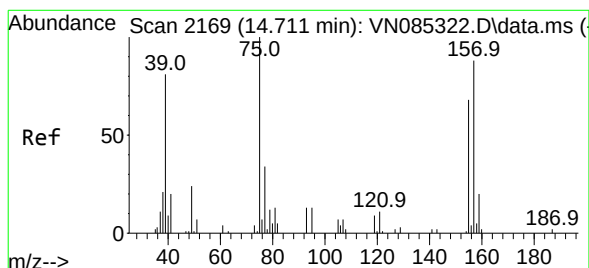
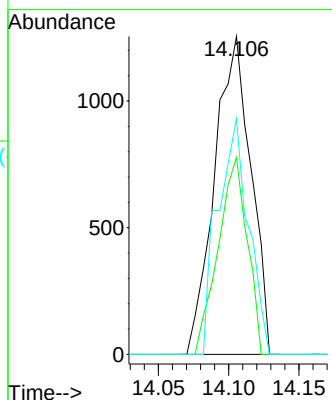
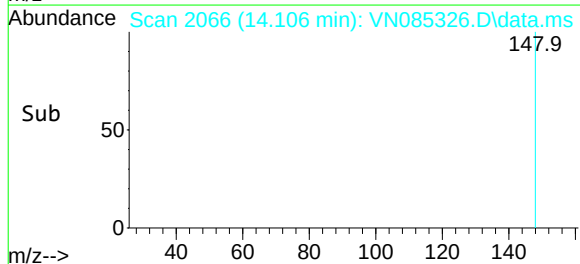
VSTDICC001



Tgt Ion:	146	Resp:	2255
Ion	Ratio	Lower	Upper
146	100		
111	49.5	21.8	65.3
148	62.7	31.4	94.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#92

1,2-Dibromo-3-Chloropropane

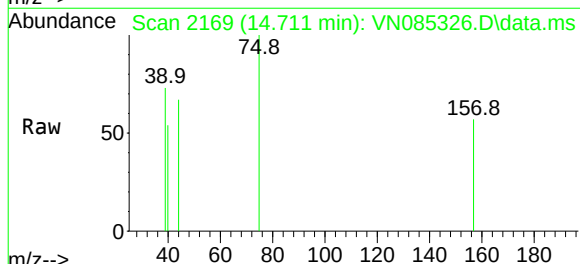
Concen: 0.929 ug/l

RT: 14.711 min Scan# 2169

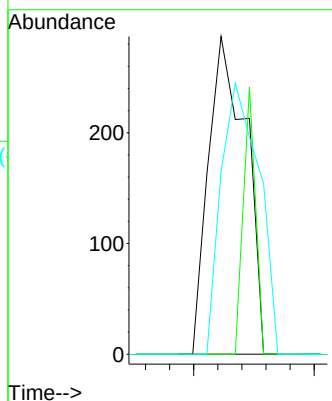
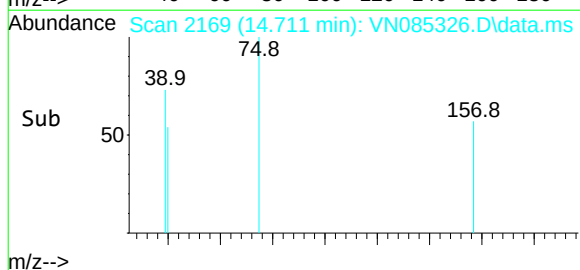
Delta R.T. -0.000 min

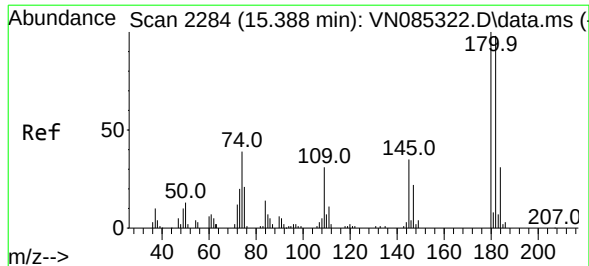
Lab File: VN085326.D

Acq: 27 Dec 2024 12:48



Tgt Ion:	75	Resp:	309
Ion	Ratio	Lower	Upper
75	100		
155	27.5	35.6	106.9#
157	86.7	47.0	141.0





#93

1,2,4-Trichlorobenzene

Concen: 0.952 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085326.D

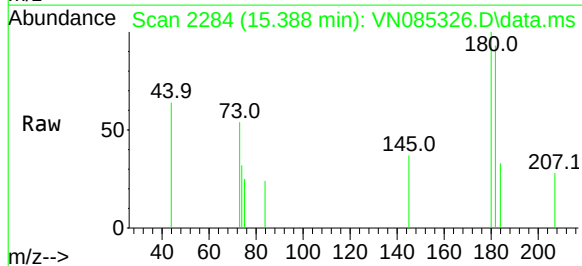
Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

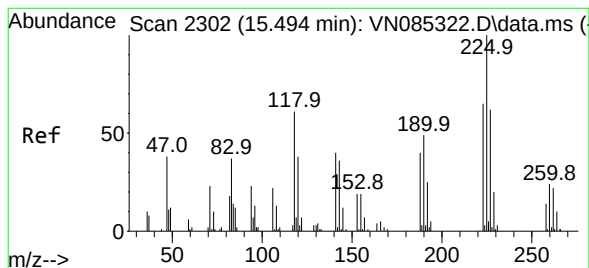
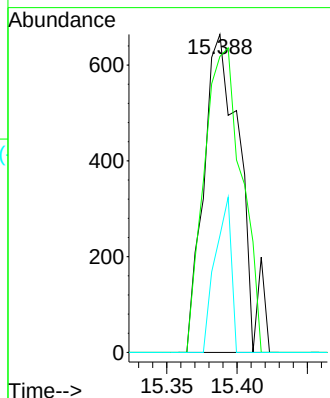
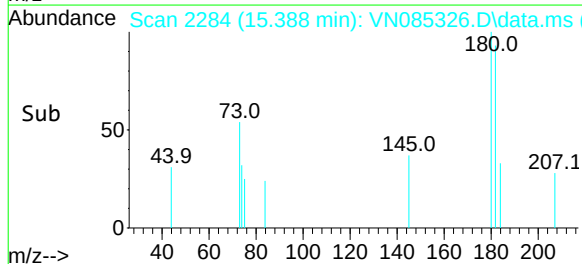


Tgt Ion:	180	Resp:	1193
Ion Ratio	Lower	Upper	
180	100		
182	99.2	47.2	141.6
145	21.8	16.6	49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#94

Hexachlorobutadiene

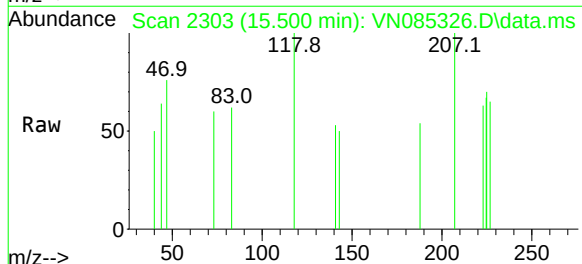
Concen: 1.094 ug/l

RT: 15.500 min Scan# 2303

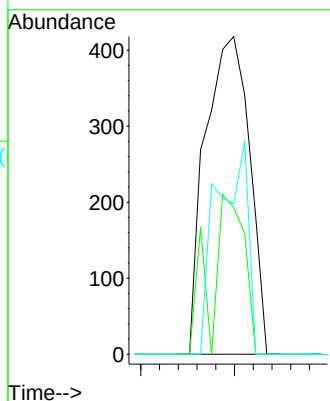
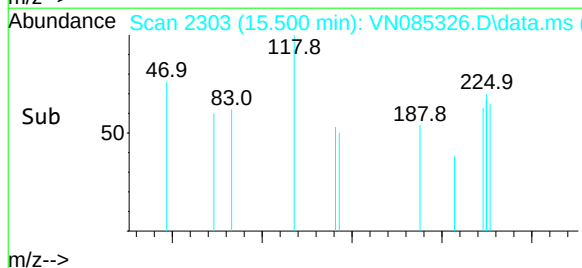
Delta R.T. 0.006 min

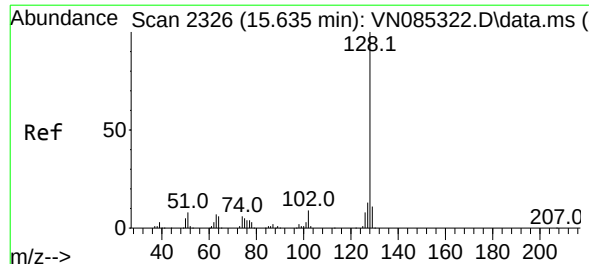
Lab File: VN085326.D

Acq: 27 Dec 2024 12:48



Tgt Ion:	225	Resp:	681
Ion Ratio	Lower	Upper	
225	100		
223	37.7	31.6	94.7
227	47.0	30.3	91.0





#95

Naphthalene

Concen: 1.134 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

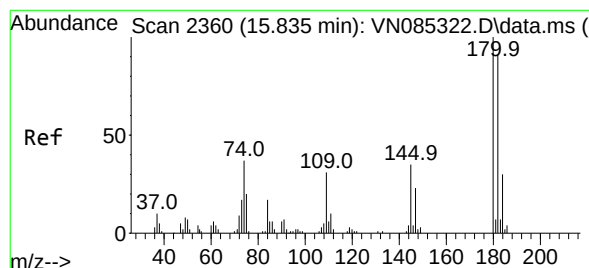
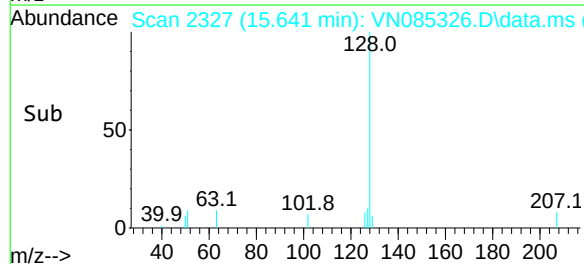
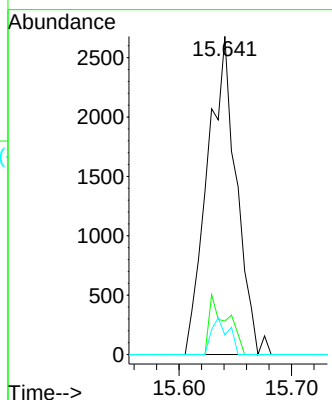
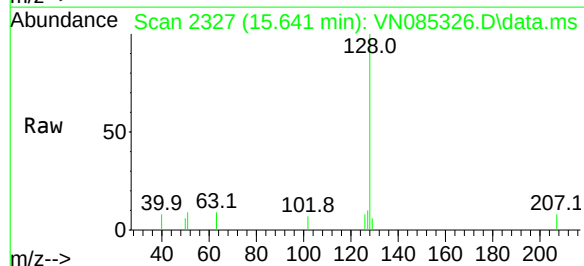
Tgt Ion:	128	Resp:	4815
Ion Ratio	Lower	Upper	
128	100		
127	11.6	10.6	16.0
129	6.7	8.5	12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#96

1,2,3-Trichlorobenzene

Concen: 0.949 ug/l

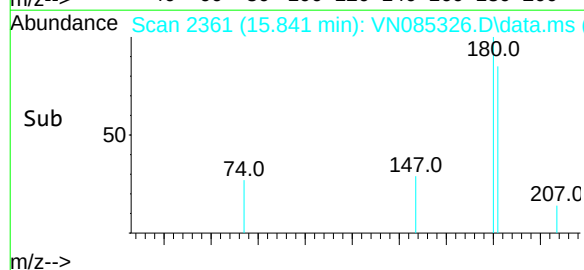
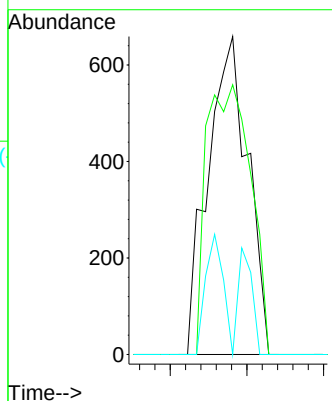
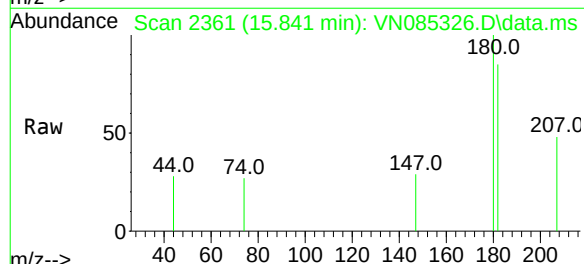
RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN085326.D

Acq: 27 Dec 2024 12:48

Tgt Ion:	180	Resp:	1188
Ion Ratio	Lower	Upper	
180	100		
182	94.6	46.8	140.4
145	11.6	17.2	51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085328.D
 Acq On : 27 Dec 2024 15:58
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN122724

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:40:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	164136	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	292504	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	256012	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120013	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118332	50.547	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	101.100%
35) Dibromofluoromethane	8.159	113	91966	50.398	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.800%
50) Toluene-d8	10.565	98	347336	51.871	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.740%
62) 4-Bromofluorobenzene	12.847	95	121466	54.619	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	109.240%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	115857	52.192	ug/l	99
3) Chloromethane	2.359	50	115249	46.193	ug/l	96
4) Vinyl Chloride	2.512	62	133659	50.656	ug/l	96
5) Bromomethane	2.924	94	83386	48.321	ug/l	96
6) Chloroethane	3.100	64	84777	50.664	ug/l	96
7) Trichlorofluoromethane	3.489	101	174797	50.396	ug/l	99
8) Diethyl Ether	3.953	74	63278	55.098	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	100713	51.030	ug/l	98
10) Methyl Iodide	4.583	142	118805	52.018	ug/l	96
11) Tert butyl alcohol	5.524	59	82769	282.346	ug/l	98
12) 1,1-Dichloroethene	4.330	96	93112	51.049	ug/l	99
13) Acrolein	4.171	56	97975	214.370	ug/l	98
14) Allyl chloride	5.018	41	149493	51.210	ug/l	99
15) Acrylonitrile	5.712	53	250489	271.490	ug/l	99
16) Acetone	4.418	43	215365	279.767	ug/l	95
17) Carbon Disulfide	4.706	76	266129	47.961	ug/l	98
18) Methyl Acetate	5.018	43	127062	53.913	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	322145	54.338	ug/l	97
20) Methylene Chloride	5.265	84	106365	51.370	ug/l	98
21) trans-1,2-Dichloroethene	5.777	96	95767	50.262	ug/l	96
22) Diisopropyl ether	6.665	45	341434	54.277	ug/l	99
23) Vinyl Acetate	6.594	43	1266714	278.352	ug/l	99
24) 1,1-Dichloroethane	6.565	63	195446	51.577	ug/l	98
25) 2-Butanone	7.477	43	338384	283.341	ug/l	98
26) 2,2-Dichloropropane	7.482	77	176896	53.283	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	118182	52.846	ug/l	97
28) Bromochloromethane	7.812	49	90008	51.112	ug/l #	100
29) Tetrahydrofuran	7.835	42	218407	283.909	ug/l	100
30) Chloroform	7.965	83	197287	50.890	ug/l	98
31) Cyclohexane	8.253	56	165938	47.956	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	174266	50.333	ug/l	99
36) 1,1-Dichloropropene	8.365	75	140127	52.447	ug/l	99
37) Ethyl Acetate	7.559	43	137205	51.666	ug/l	99
38) Carbon Tetrachloride	8.359	117	153395	52.672	ug/l	98
39) Methylcyclohexane	9.600	83	156627	56.501	ug/l	100
40) Benzene	8.600	78	424501	52.550	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085328.D
 Acq On : 27 Dec 2024 15:58
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN122724

Quant Time: Dec 28 01:40:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	77084	56.677	ug/l	98
42) 1,2-Dichloroethane	8.665	62	149352	51.568	ug/l	100
43) Isopropyl Acetate	8.682	43	249040	56.953	ug/l	98
44) Trichloroethene	9.347	130	97403	50.930	ug/l	93
45) 1,2-Dichloropropane	9.618	63	109589	53.441	ug/l	100
46) Dibromomethane	9.706	93	76287	53.491	ug/l	98
47) Bromodichloromethane	9.882	83	156297	52.728	ug/l #	99
48) Methyl methacrylate	9.676	41	111168	58.590	ug/l	99
49) 1,4-Dioxane	9.694	88	34268	1197.029	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	714200	290.641	ug/l	99
52) Toluene	10.623	92	264263	54.941	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	164691	56.497	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	173493	55.040	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	96817	53.314	ug/l	98
56) Ethyl methacrylate	10.871	69	163272	61.733	ug/l	98
57) 1,3-Dichloropropane	11.159	76	172176	54.020	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	359446	280.905	ug/l	99
59) 2-Hexanone	11.194	43	519370	304.633	ug/l	99
60) Dibromochloromethane	11.359	129	116293	56.856	ug/l	99
61) 1,2-Dibromoethane	11.465	107	97817	54.445	ug/l	99
64) Tetrachloroethene	11.100	164	84445	52.056	ug/l	98
65) Chlorobenzene	11.888	112	287764	52.014	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	98192	52.882	ug/l	99
67) Ethyl Benzene	11.959	91	512193	55.669	ug/l	99
68) m/p-Xylenes	12.065	106	386429	114.768	ug/l	100
69) o-Xylene	12.394	106	185036	56.809	ug/l	98
70) Styrene	12.406	104	313206	59.331	ug/l	99
71) Bromoform	12.576	173	72309	56.226	ug/l #	99
73) Isopropylbenzene	12.694	105	474369	54.966	ug/l	100
74) N-amyl acetate	12.488	43	211810	57.337	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	137310	49.956	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	110703m	49.397	ug/l	
77) Bromobenzene	12.976	156	106098	49.621	ug/l	97
78) n-propylbenzene	13.035	91	562715	55.937	ug/l	99
79) 2-Chlorotoluene	13.123	91	338610	53.482	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	393503	56.370	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	51732	55.281	ug/l	98
82) 4-Chlorotoluene	13.217	91	341098	53.493	ug/l	99
83) tert-Butylbenzene	13.435	119	332355	54.963	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	399361	57.454	ug/l	99
85) sec-Butylbenzene	13.611	105	477401	56.877	ug/l	98
86) p-Isopropyltoluene	13.723	119	399868	53.045	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	204501	52.759	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	201165	50.524	ug/l	100
89) n-Butylbenzene	14.053	91	357404	58.149	ug/l	100
90) Hexachloroethane	14.329	117	74623	54.238	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	194477	52.669	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	27636	56.494	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	99722	54.113	ug/l	99
94) Hexachlorobutadiene	15.500	225	45915	50.146	ug/l	98
95) Naphthalene	15.635	128	319467	51.123	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	94990	51.589	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085328.D
Acq On : 27 Dec 2024 15:58
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122724

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:40:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

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

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

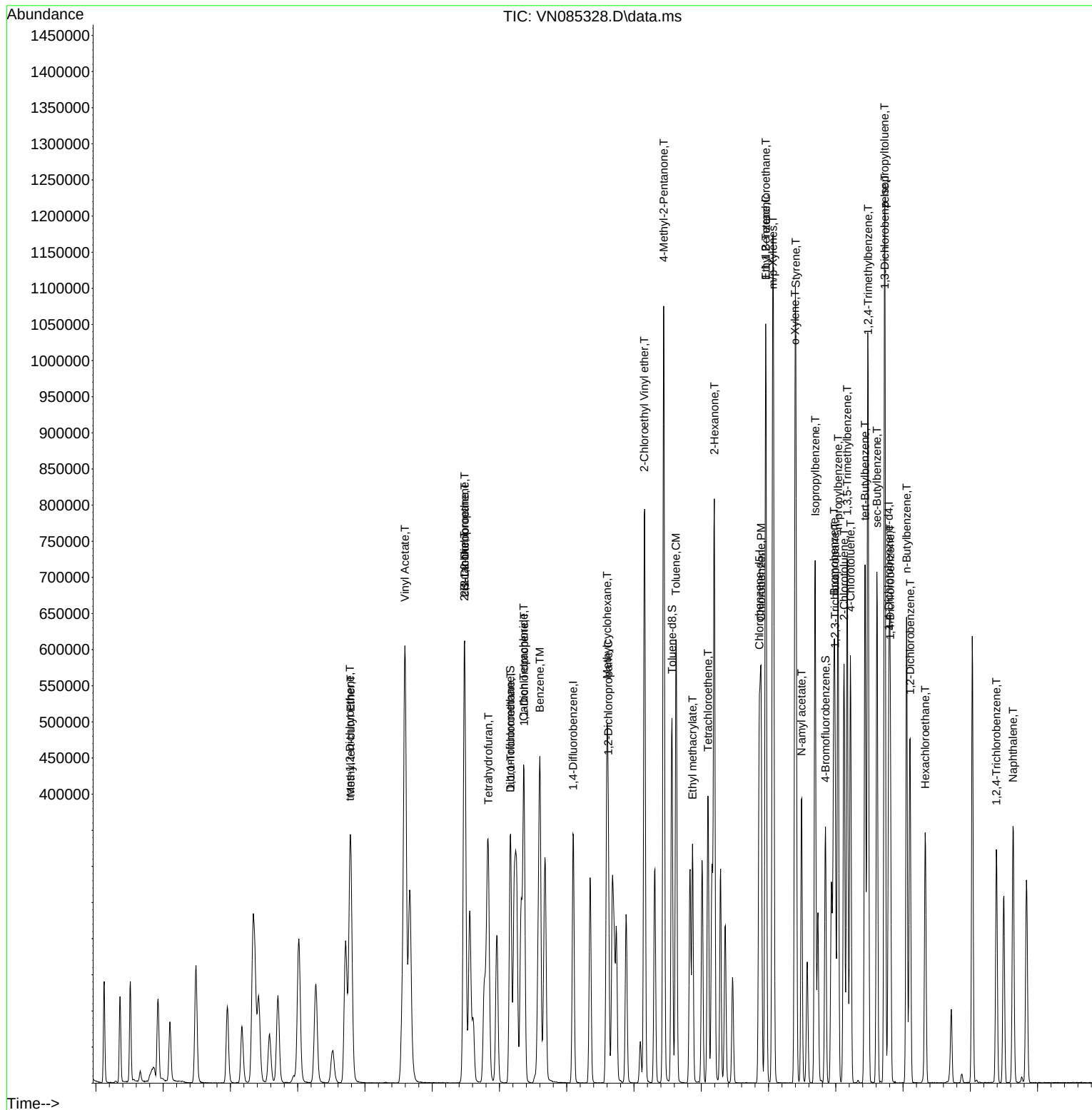
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085328.D
Acq On : 27 Dec 2024 15:58
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

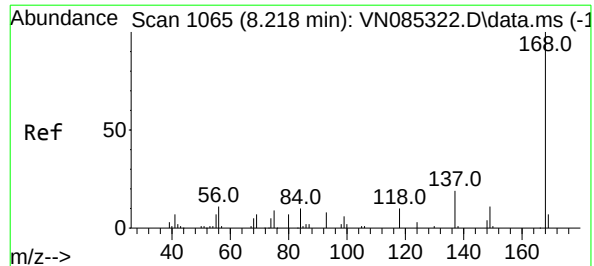
Instrument :
MSVOA_N
ClientSampleId :
ICVVN122724

Manual Integrations APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

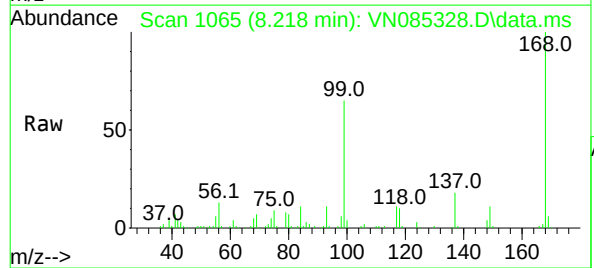
Quant Time: Dec 28 01:40:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085328.D
Acq: 27 Dec 2024 15:58

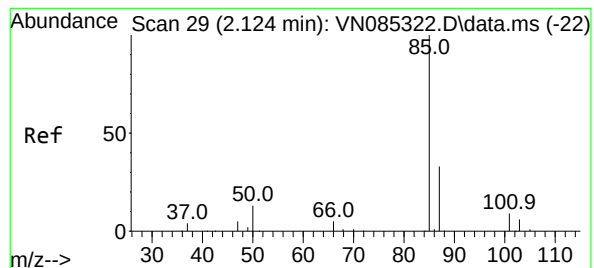
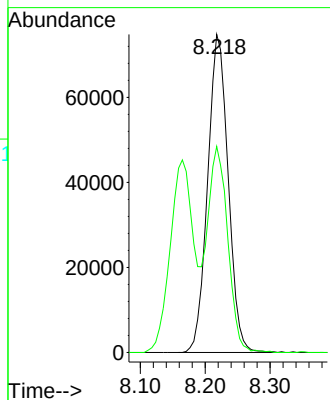
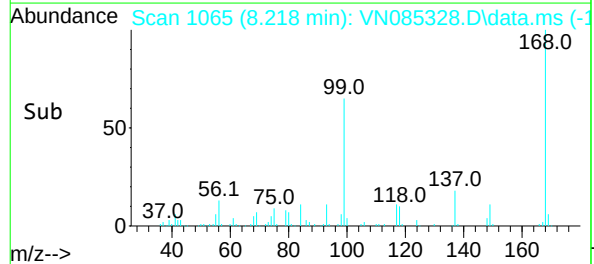
Instrument :
MSVOA_N
ClientSampleId :
ICVNVN122724



Tgt Ion:168 Resp: 164136
Ion Ratio Lower Upper
168 100
99 64.8 51.0 76.4

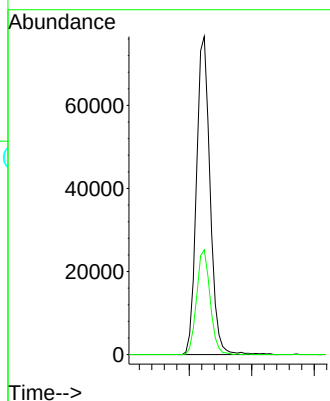
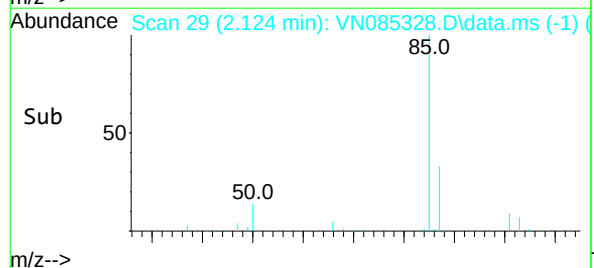
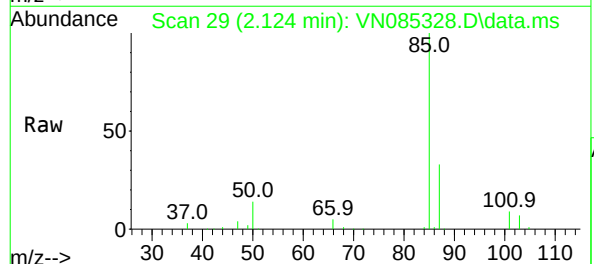
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

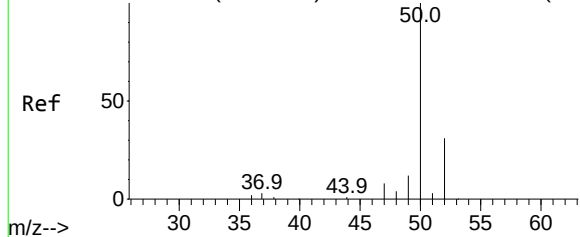


#2
Dichlorodifluoromethane
Concen: 52.192 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085328.D
Acq: 27 Dec 2024 15:58

Tgt Ion: 85 Resp: 115857
Ion Ratio Lower Upper
85 100
87 33.0 16.8 50.3



Abundance Scan 69 (2.359 min): VN085322.D\data.ms (-62)



#3

Chloromethane

Concen: 46.193 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

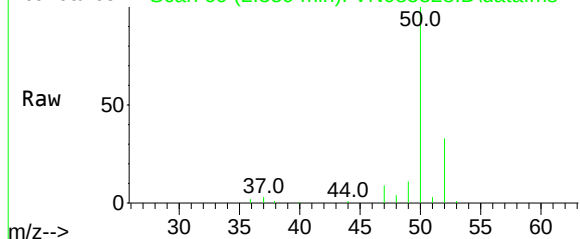
Instrument :

MSVOA_N

ClientSampleId :

ICVVN122724

Abundance Scan 69 (2.359 min): VN085328.D\data.ms



Tgt Ion: 50 Resp: 115249

Ion Ratio Lower Upper

50 100

52 33.4 25.1 37.7

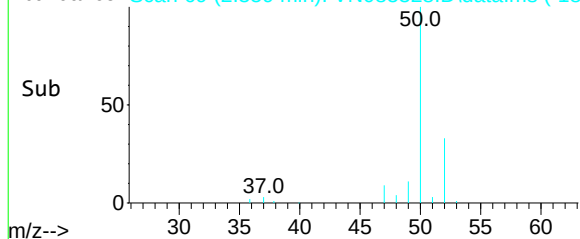
Manual Integrations

APPROVED

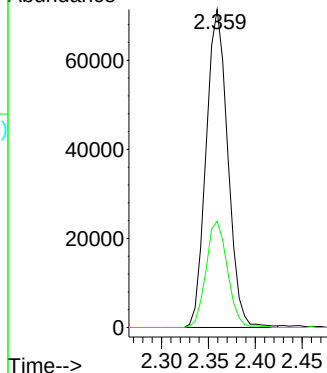
Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024

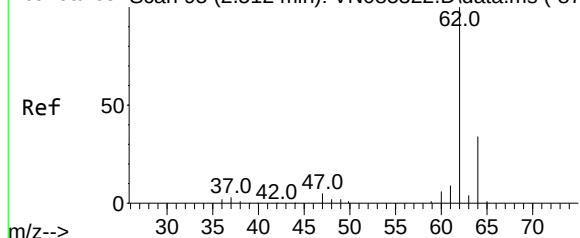
Abundance Scan 69 (2.359 min): VN085328.D\data.ms (-18)



Abundance



Abundance Scan 95 (2.512 min): VN085322.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 50.656 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

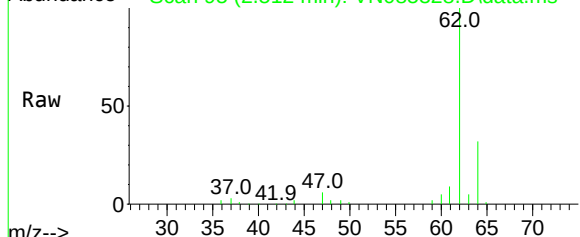
Tgt Ion: 62 Resp: 133659

Ion Ratio Lower Upper

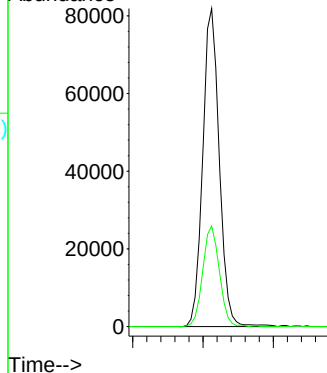
62 100

64 31.7 27.0 40.6

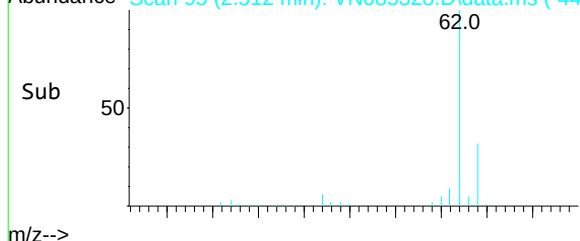
Abundance Scan 95 (2.512 min): VN085328.D\data.ms

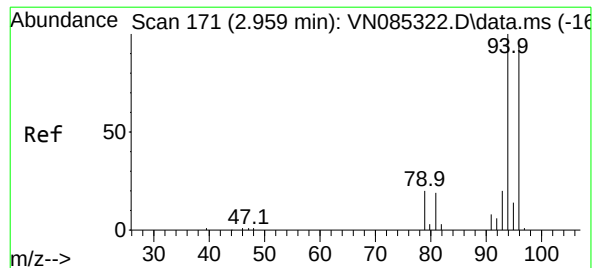


Abundance



Abundance Scan 95 (2.512 min): VN085328.D\data.ms (-44)





#5

Bromomethane

Concen: 48.321 ug/l

RT: 2.924 min Scan# 16

Delta R.T. -0.035 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVFN122724

Tgt Ion: 94 Resp: 83386

Ion Ratio Lower Upper

94 100

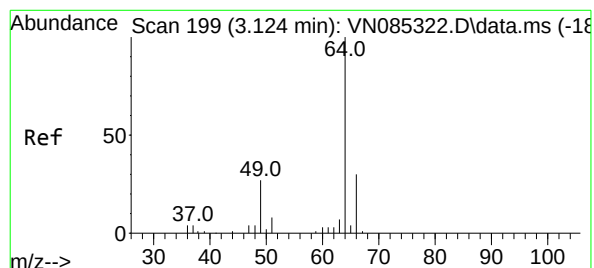
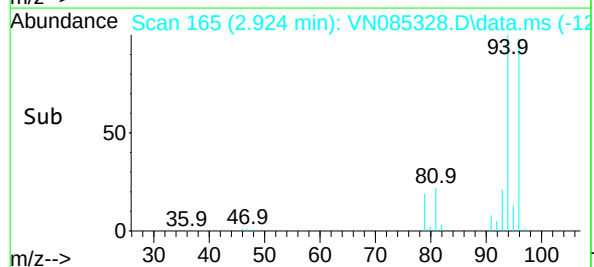
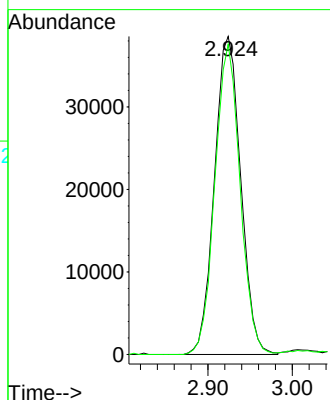
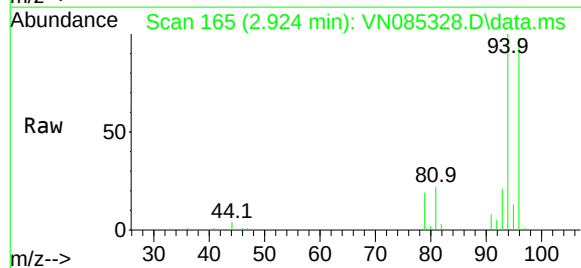
96 97.5 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#6

Chloroethane

Concen: 50.664 ug/l

RT: 3.100 min Scan# 195

Delta R.T. -0.024 min

Lab File: VN085328.D

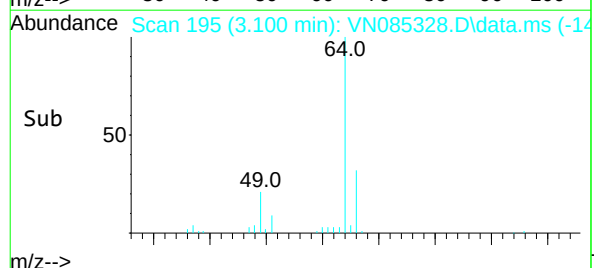
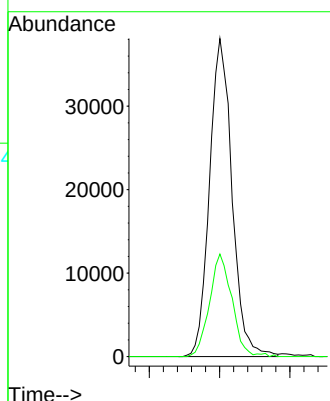
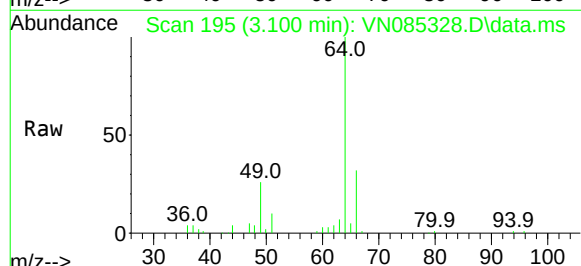
Acq: 27 Dec 2024 15:58

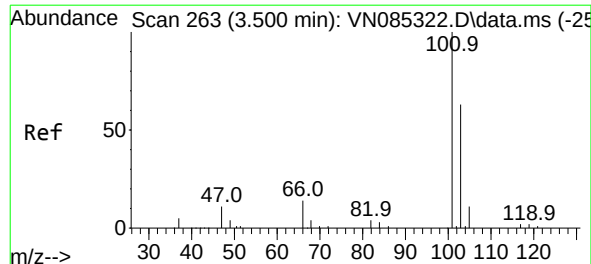
Tgt Ion: 64 Resp: 84777

Ion Ratio Lower Upper

64 100

66 32.2 24.1 36.1





#7

Trichlorofluoromethane

Concen: 50.396 ug/l

RT: 3.489 min Scan# 26

Delta R.T. -0.012 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVN122724

Tgt Ion:101 Resp: 174797

Ion Ratio Lower Upper

101 100

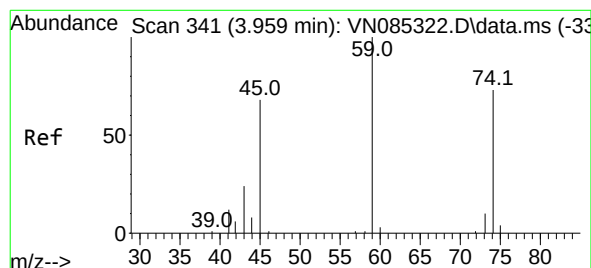
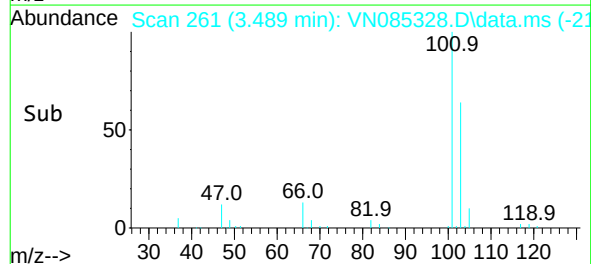
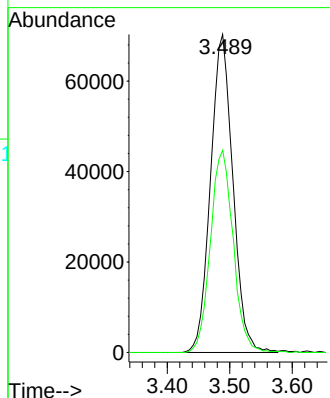
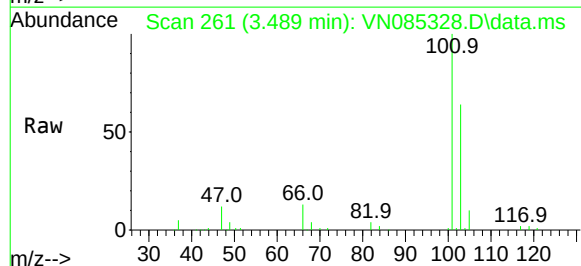
103 63.6 50.3 75.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#8

Diethyl Ether

Concen: 55.098 ug/l

RT: 3.953 min Scan# 340

Delta R.T. -0.006 min

Lab File: VN085328.D

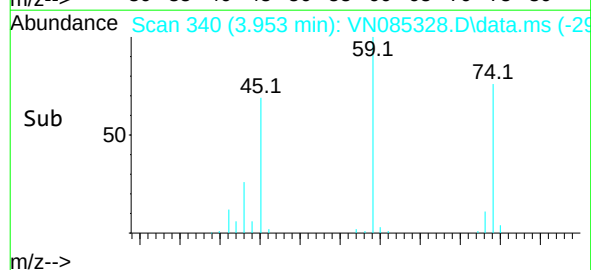
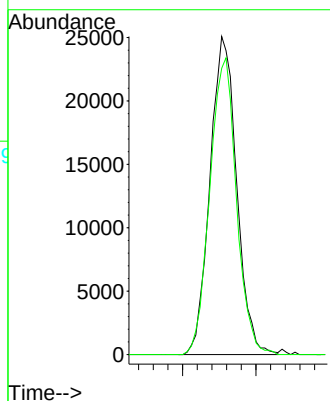
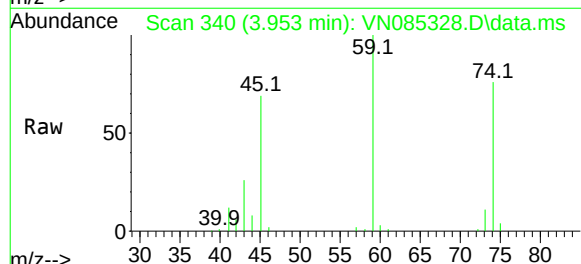
Acq: 27 Dec 2024 15:58

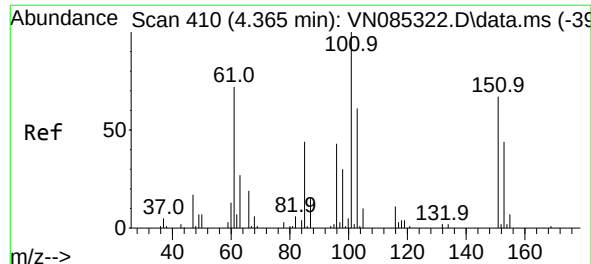
Tgt Ion: 74 Resp: 63278

Ion Ratio Lower Upper

74 100

45 93.2 47.5 142.6





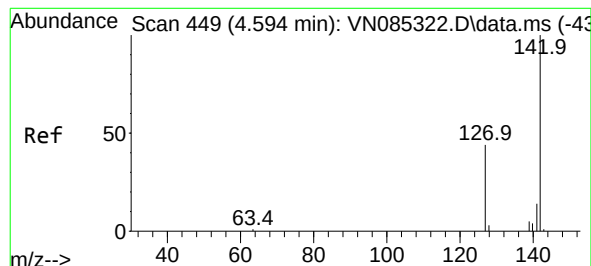
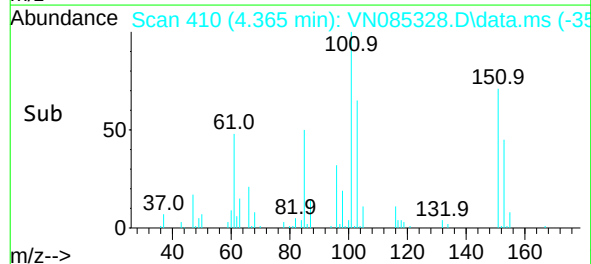
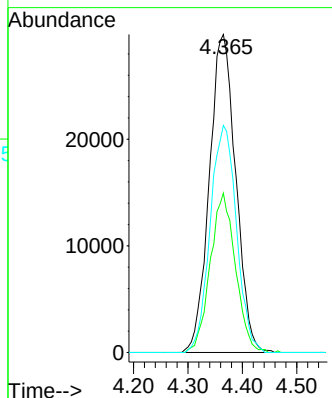
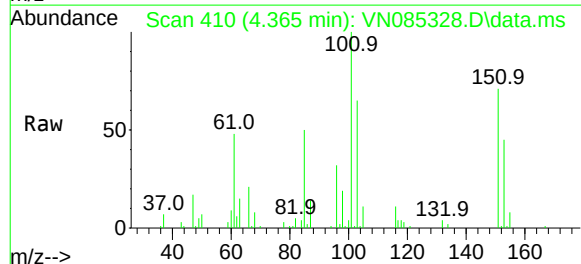
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.030 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.000 min
Lab File: VN085328.D
Acq: 27 Dec 2024 15:58

Instrument :
MSVOA_N
ClientSampleId :
ICNVN122724

Tgt Ion	101	Resp	100713
Ion	Ratio	Lower	Upper
101	100		
85	47.7	36.2	54.4
151	71.0	55.8	83.6

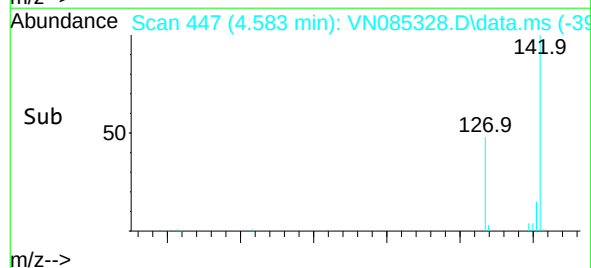
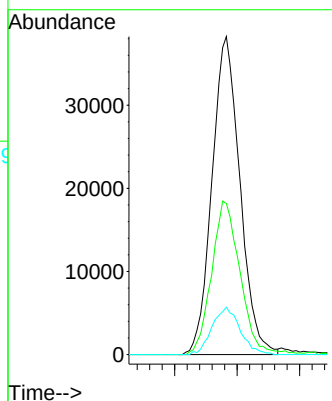
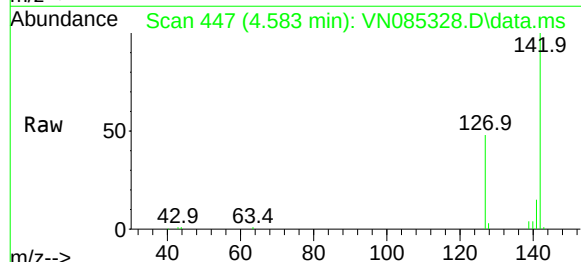
Manual Integrations
APPROVED

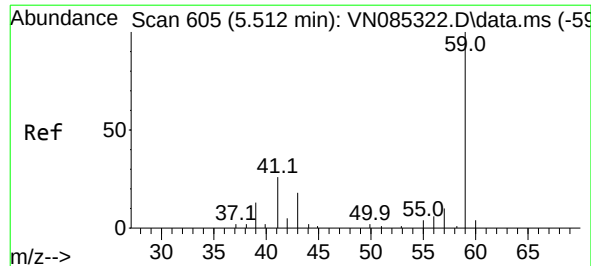
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#10
Methyl Iodide
Concen: 52.018 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.012 min
Lab File: VN085328.D
Acq: 27 Dec 2024 15:58

Tgt Ion	142	Resp	118805
Ion	Ratio	Lower	Upper
142	100		
127	47.5	35.3	52.9
141	14.9	11.5	17.3





#11

Tert butyl alcohol

Concen: 282.346 ug/l

RT: 5.524 min Scan# 605

Delta R.T. 0.012 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICNVN122724

Tgt Ion: 59 Resp: 82769

Ion Ratio Lower Upper

59 100

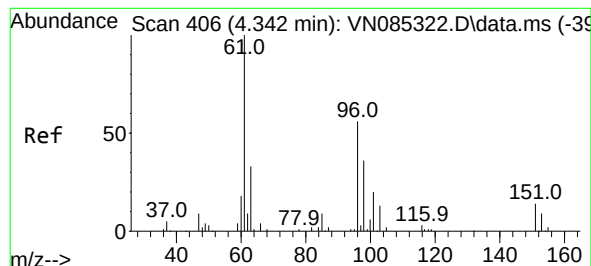
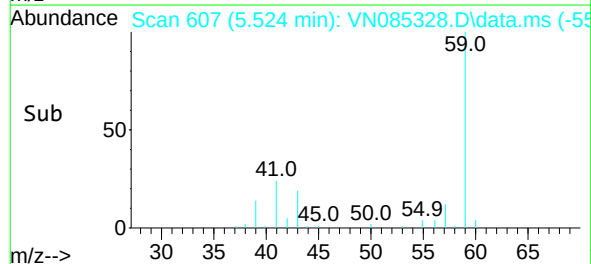
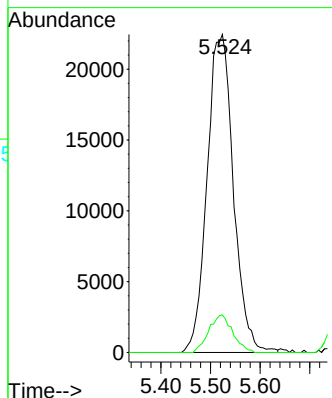
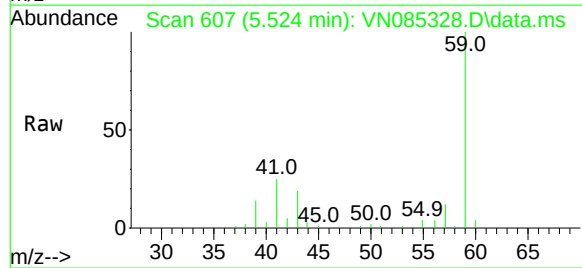
57 10.7 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#12

1,1-Dichloroethene

Concen: 51.049 ug/l

RT: 4.330 min Scan# 404

Delta R.T. -0.012 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

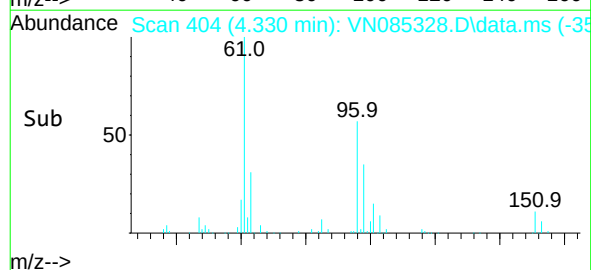
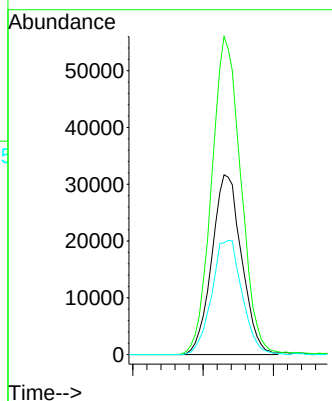
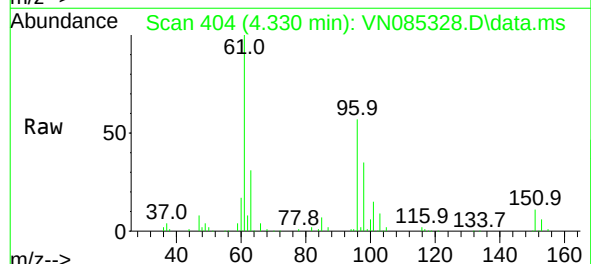
Tgt Ion: 96 Resp: 93112

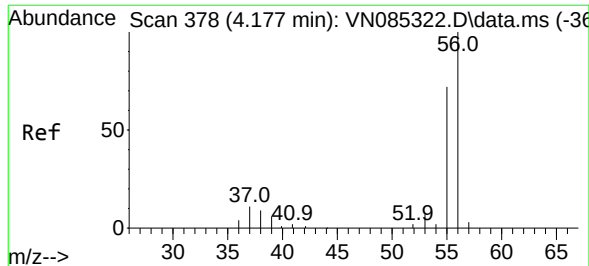
Ion Ratio Lower Upper

96 100

61 176.9 142.4 213.6

98 62.2 51.5 77.3





#13

Acrolein

Concen: 214.370 ug/l

RT: 4.171 min Scan# 37

Delta R.T. -0.006 min

Lab File: VN085328.D

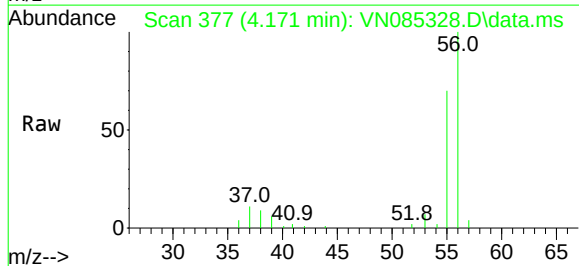
Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICNVN122724



Tgt Ion: 56 Resp: 97975

Ion Ratio Lower Upper

56 100

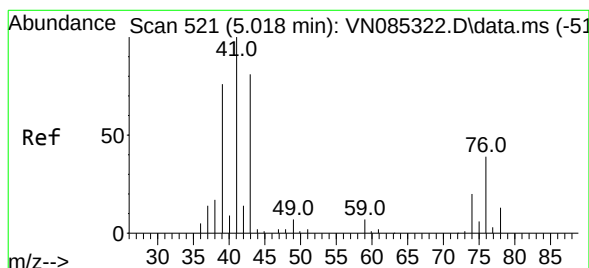
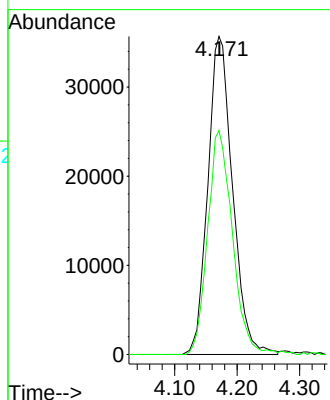
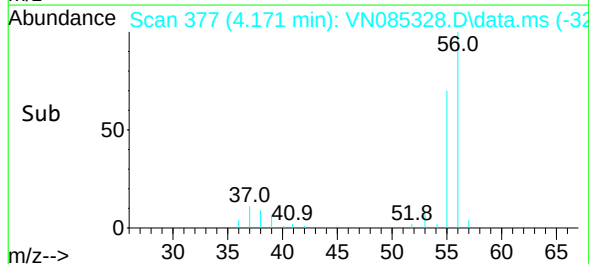
55 70.5 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#14

Allyl chloride

Concen: 51.210 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

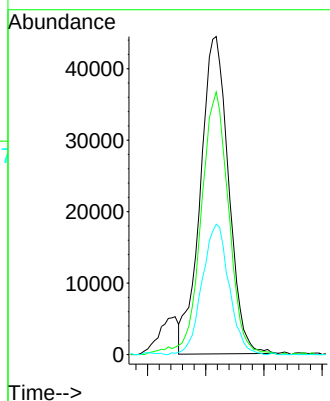
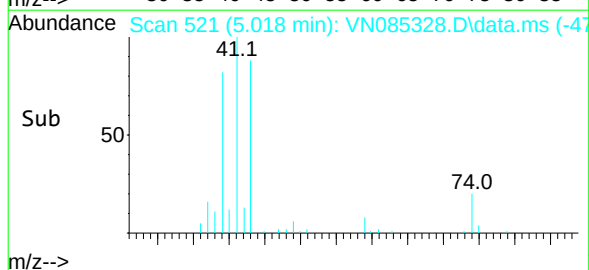
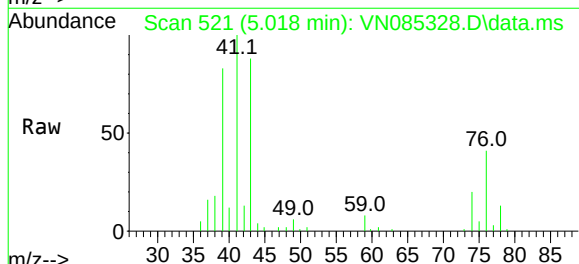
Tgt Ion: 41 Resp: 149493

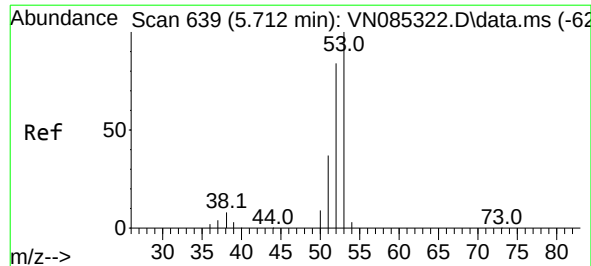
Ion Ratio Lower Upper

41 100

39 81.1 64.4 96.6

76 39.2 31.5 47.3





#15

Acrylonitrile

Concen: 271.490 ug/l

RT: 5.712 min Scan# 639

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

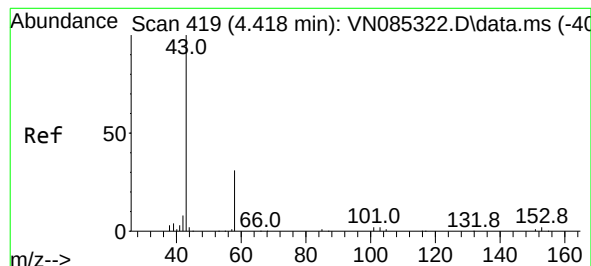
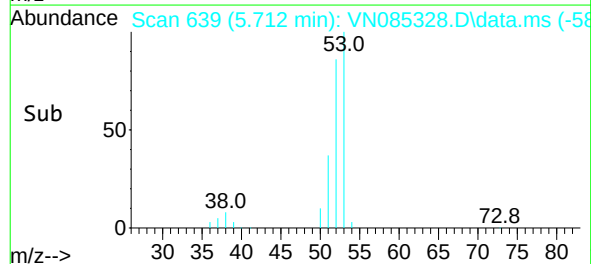
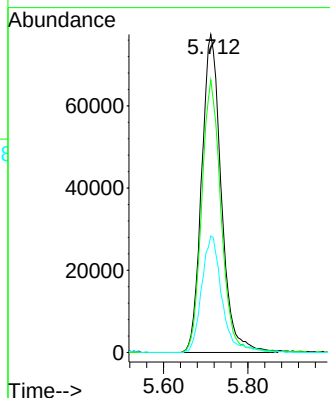
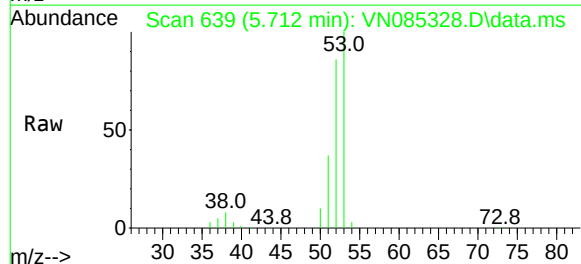
ClientSampleId :

ICVVN122724

Tgt Ion:	53	Resp:	250489
Ion	Ratio	Lower	Upper
53	100		
52	84.1	66.6	100.0
51	37.8	29.6	44.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#16

Acetone

Concen: 279.767 ug/l

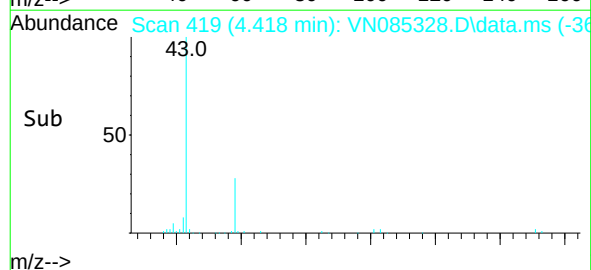
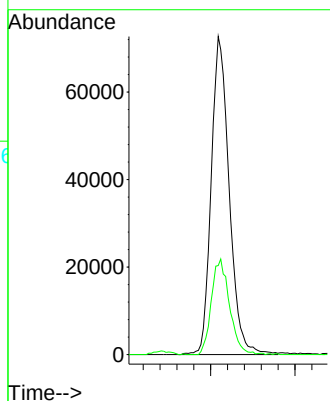
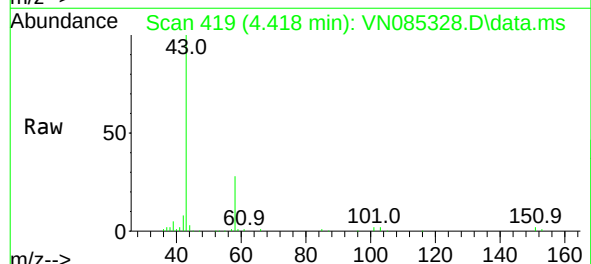
RT: 4.418 min Scan# 419

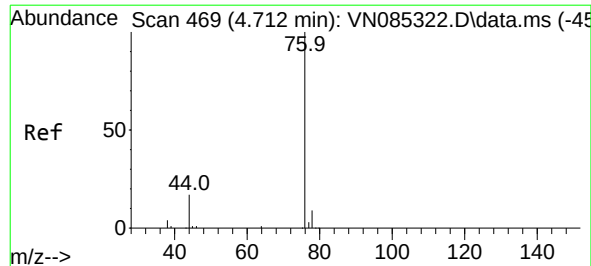
Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion:	43	Resp:	215365
Ion	Ratio	Lower	Upper
43	100		
58	28.0	24.5	36.7





#17

Carbon Disulfide

Concen: 47.961 ug/l

RT: 4.706 min Scan# 46

Delta R.T. -0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVVN122724

Tgt Ion: 76 Resp: 266129

Ion Ratio Lower Upper

76 100

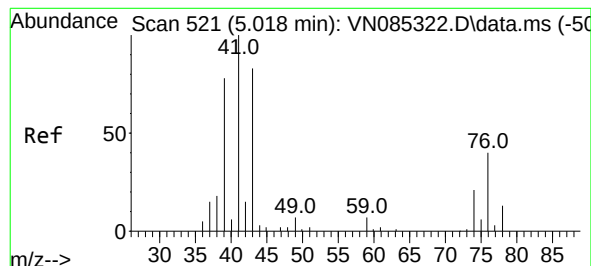
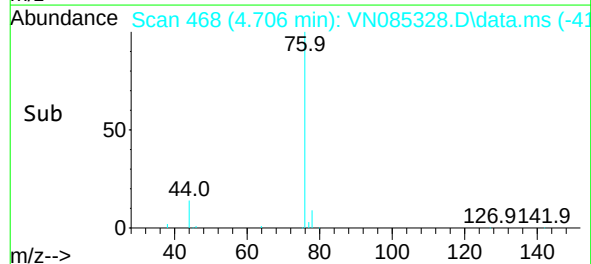
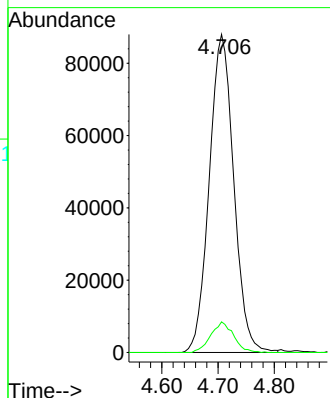
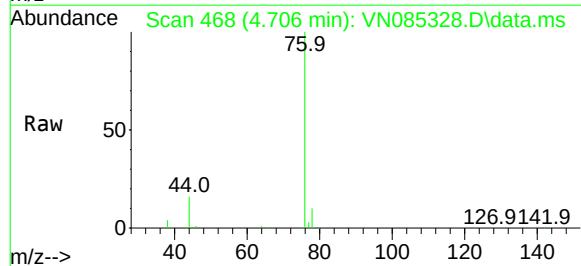
78 9.6 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#18

Methyl Acetate

Concen: 53.913 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085328.D

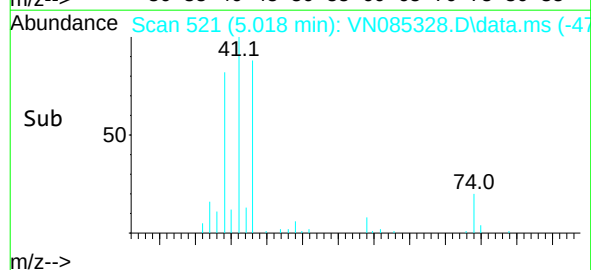
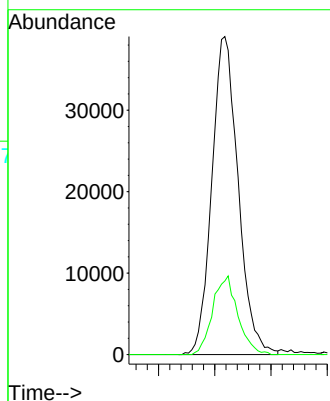
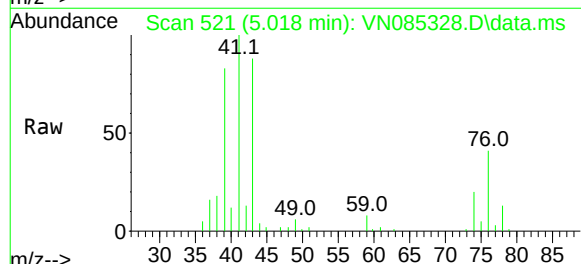
Acq: 27 Dec 2024 15:58

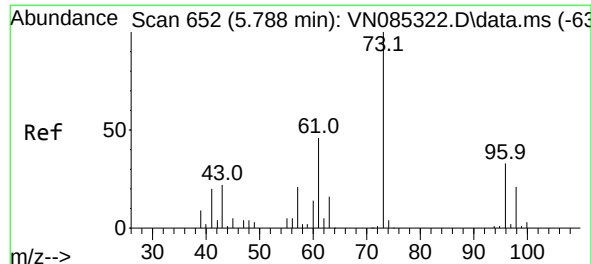
Tgt Ion: 43 Resp: 127062

Ion Ratio Lower Upper

43 100

74 23.5 19.0 28.6





#19

Methyl tert-butyl Ether

Concen: 54.338 ug/l

RT: 5.788 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVVN122724

Tgt Ion: 73 Resp: 322145

Ion Ratio Lower Upper

73 100

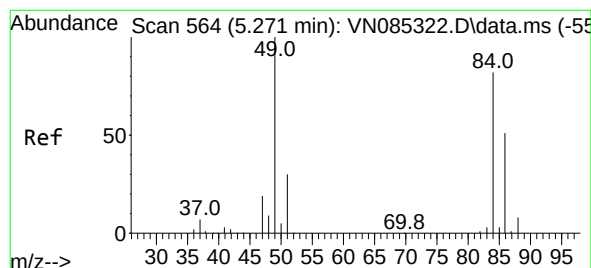
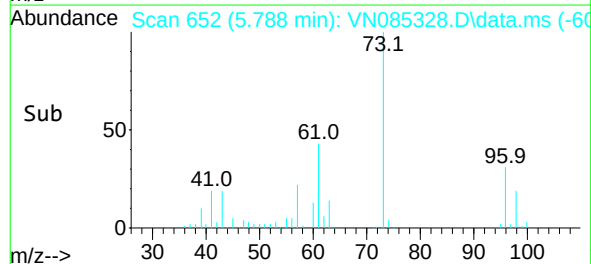
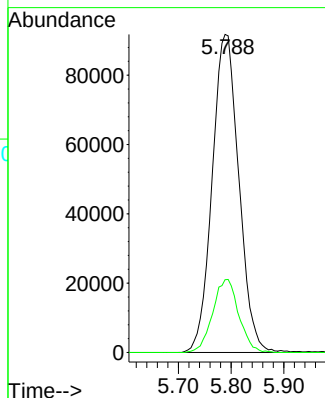
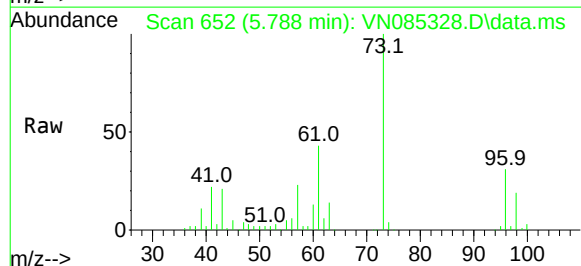
57 22.9 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#20

Methylene Chloride

Concen: 51.370 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion: 84 Resp: 106365

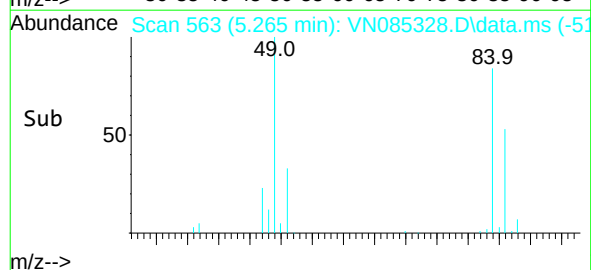
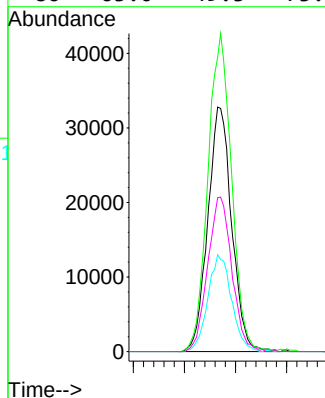
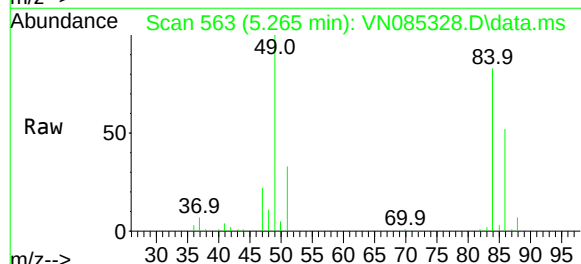
Ion Ratio Lower Upper

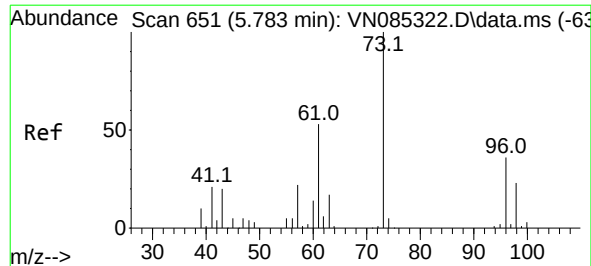
84 100

49 120.4 97.6 146.4

51 39.6 29.1 43.7

86 63.0 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 50.262 ug/l

RT: 5.777 min Scan# 651

Delta R.T. -0.006 min

Lab File: VN085328.D

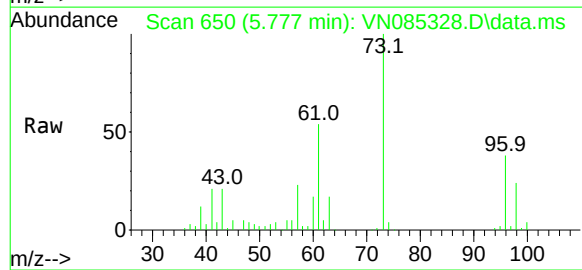
Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

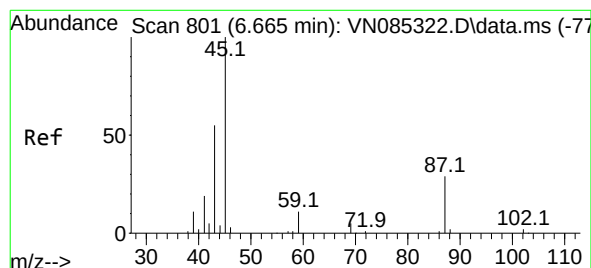
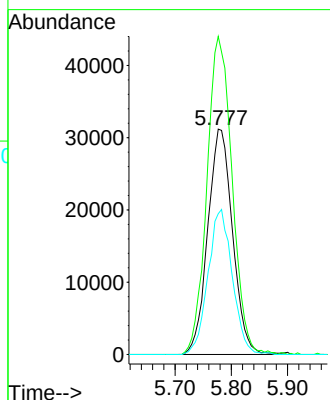
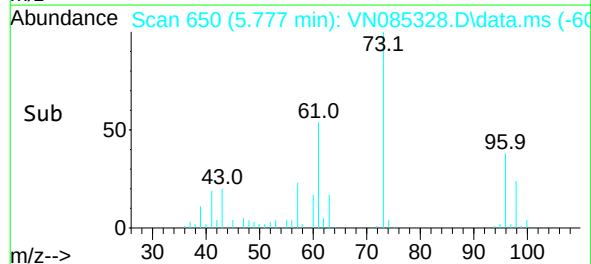
ICVVN122724



Tgt Ion:	96	Resp:	95767
Ion	Ratio	Lower	Upper
96	100		
61	141.1	118.0	177.0
98	62.5	50.6	75.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#22

Diisopropyl ether

Concen: 54.277 ug/l

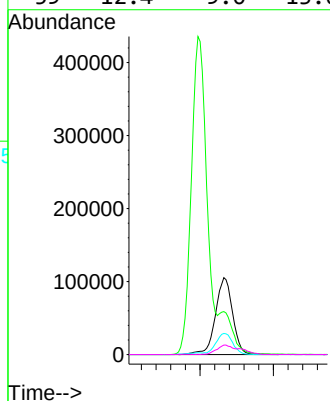
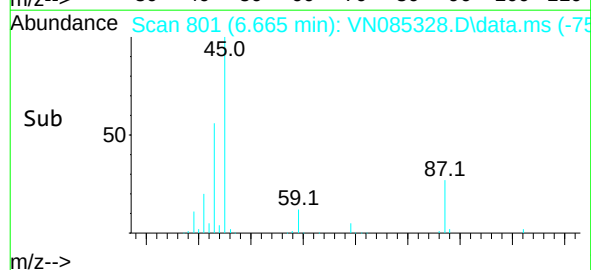
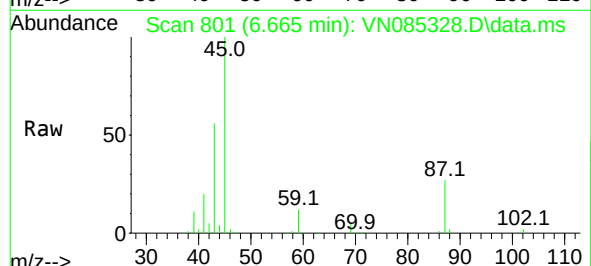
RT: 6.665 min Scan# 801

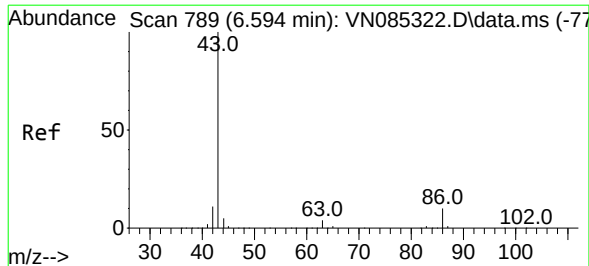
Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion:	45	Resp:	341434
Ion	Ratio	Lower	Upper
45	100		
43	55.1	44.1	66.1
87	27.4	23.2	34.8
59	12.4	9.0	13.6





#23

Vinyl Acetate

Concen: 278.352 ug/l

RT: 6.594 min Scan# 789

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICNVN122724

Tgt Ion: 43 Resp: 1266714

Ion Ratio Lower Upper

43 100

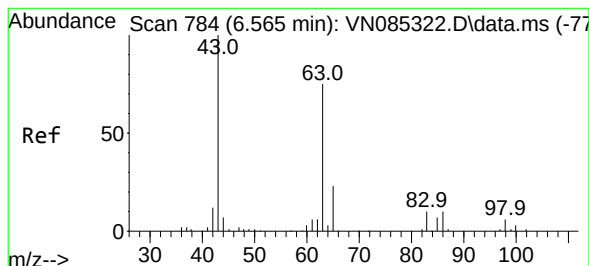
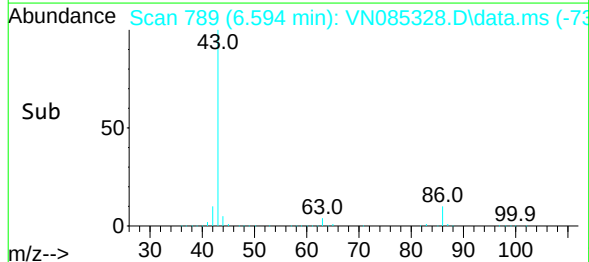
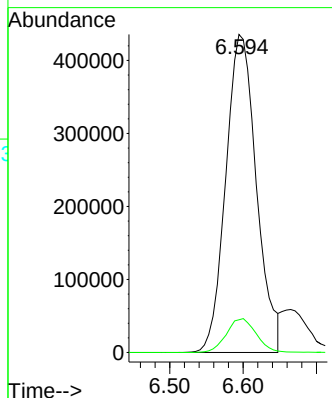
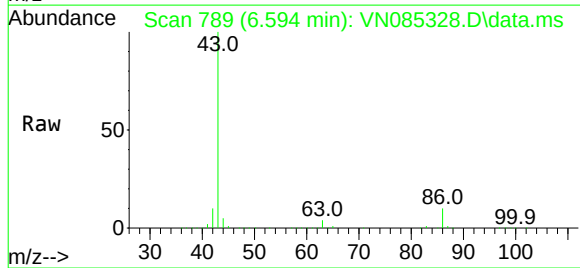
86 10.3 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#24

1,1-Dichloroethane

Concen: 51.577 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

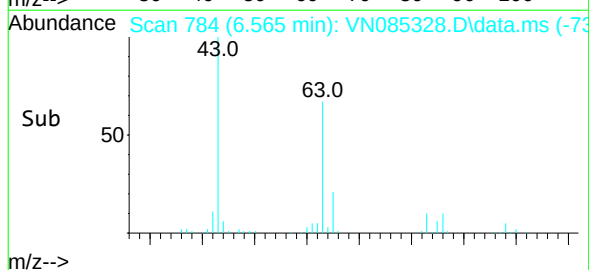
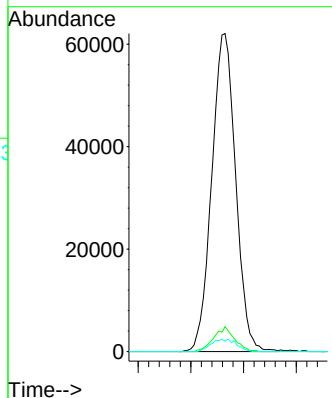
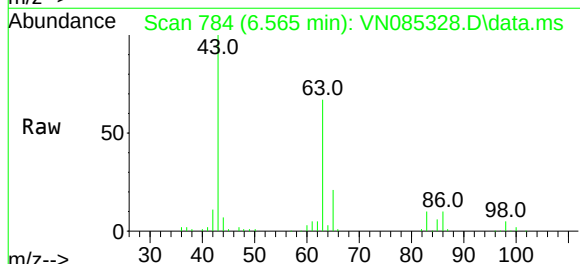
Tgt Ion: 63 Resp: 195446

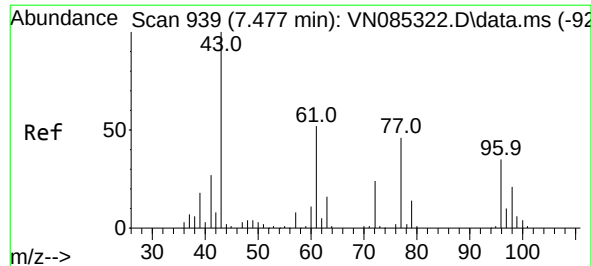
Ion Ratio Lower Upper

63 100

98 7.8 3.7 11.1

100 3.3 2.3 6.8





#25

2-Butanone

Concen: 283.341 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICV122724

Tgt Ion: 43 Resp: 338384

Ion Ratio Lower Upper

43 100

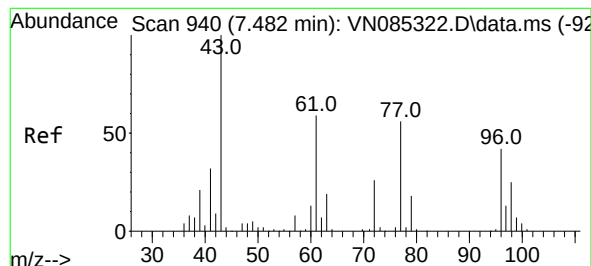
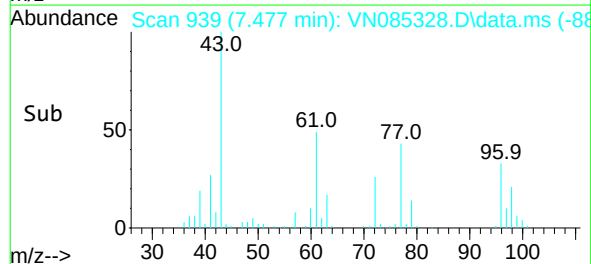
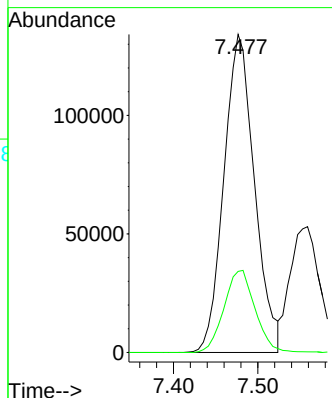
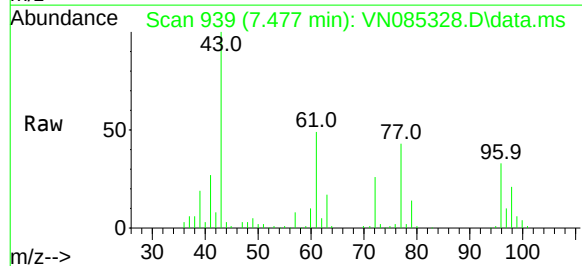
72 25.5 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#26

2,2-Dichloropropane

Concen: 53.283 ug/l

RT: 7.482 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085328.D

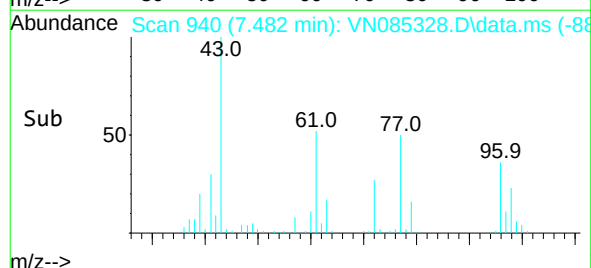
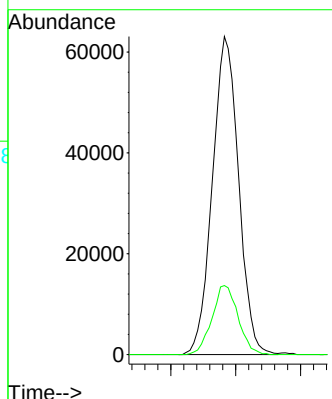
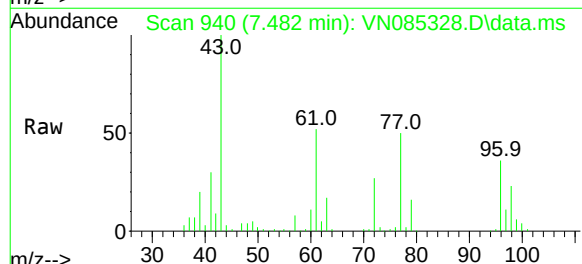
Acq: 27 Dec 2024 15:58

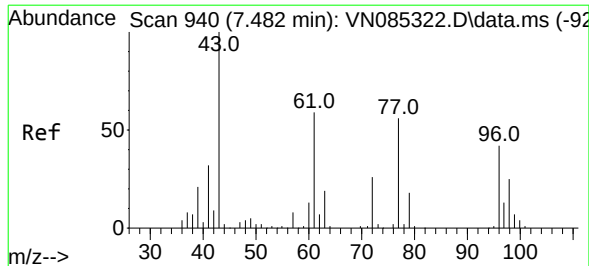
Tgt Ion: 77 Resp: 176896

Ion Ratio Lower Upper

77 100

97 21.6 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 52.846 ug/l

RT: 7.482 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085328.D

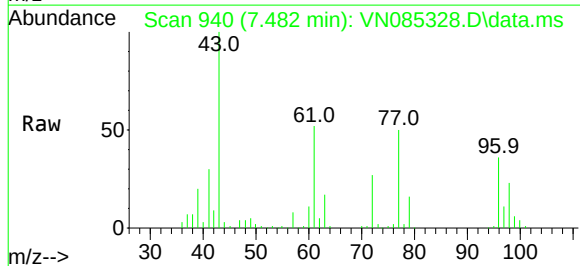
Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

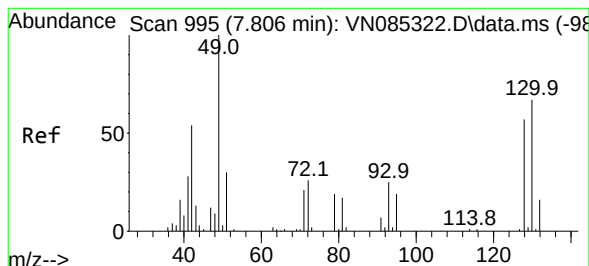
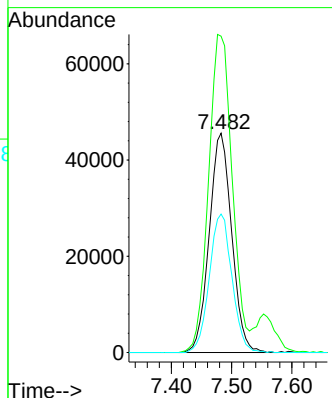
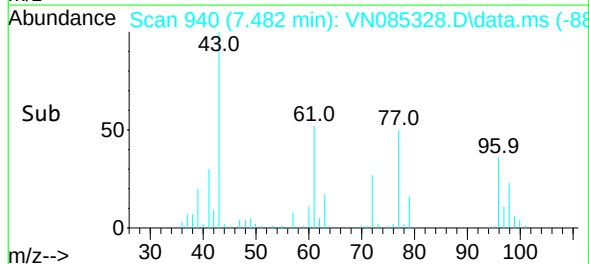
ICVVN122724



Tgt Ion:	96	Resp:	118182
Ion	Ratio	Lower	Upper
96	100		
61	152.7	0.0	296.4
98	63.6	0.0	124.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#28

Bromochloromethane

Concen: 51.112 ug/l

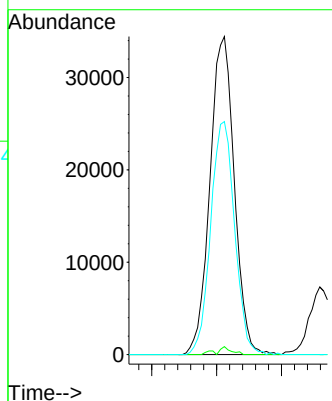
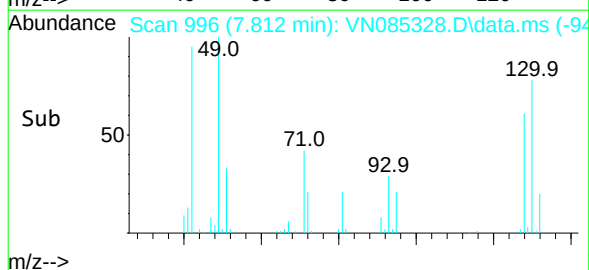
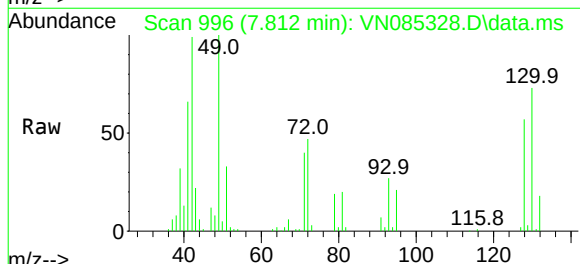
RT: 7.812 min Scan# 996

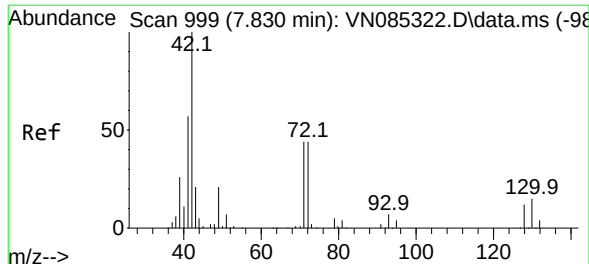
Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion:	49	Resp:	90008
Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	2.0
130	71.9	0.0	0.0#





#29

Tetrahydrofuran

Concen: 283.909 ug/l

RT: 7.835 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICNVN122724

Tgt Ion: 42 Resp: 218407

Ion Ratio Lower Upper

42 100

72 44.1 35.1 52.7

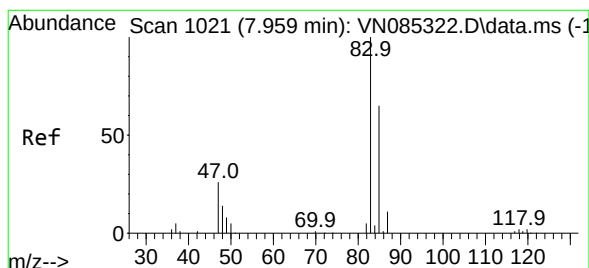
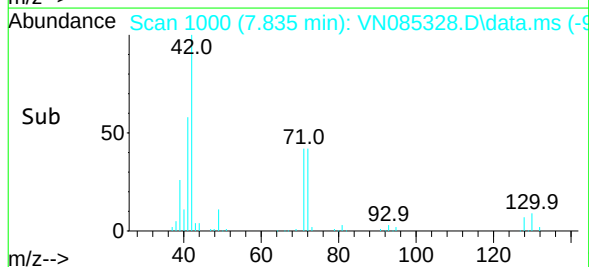
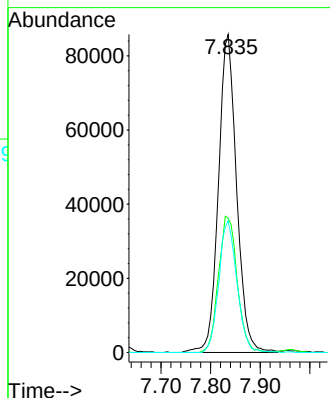
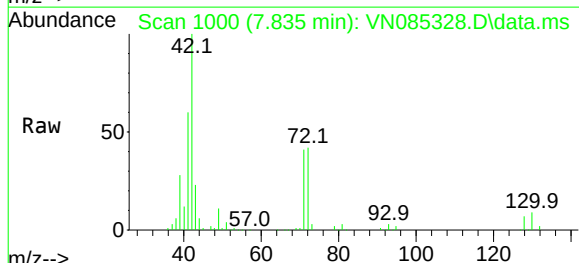
71 41.4 33.4 50.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#30

Chloroform

Concen: 50.890 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085328.D

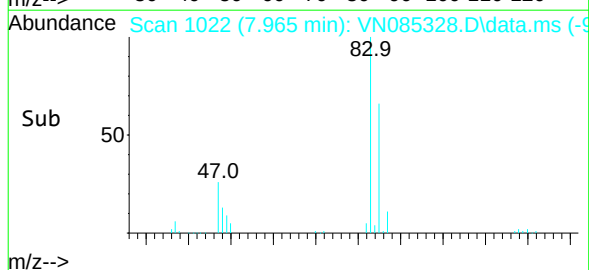
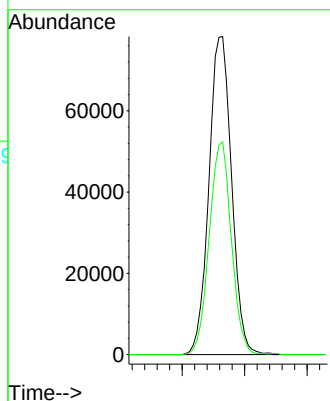
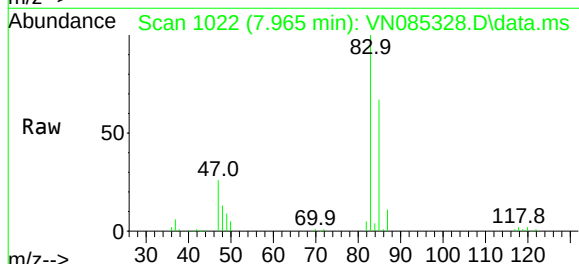
Acq: 27 Dec 2024 15:58

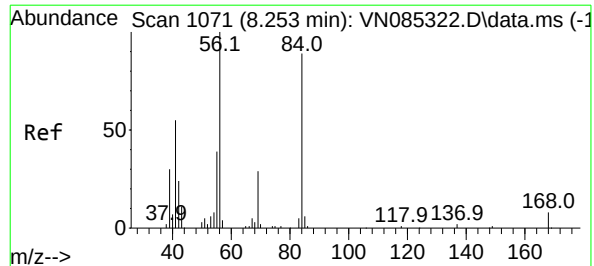
Tgt Ion: 83 Resp: 197287

Ion Ratio Lower Upper

83 100

85 66.9 52.0 78.0





#31

Cyclohexane

Concen: 47.956 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVVN122724

Tgt Ion: 56 Resp: 165938

Ion Ratio Lower Upper

56 100

69 29.5 23.4 35.0

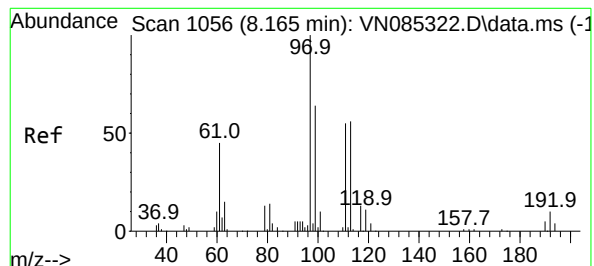
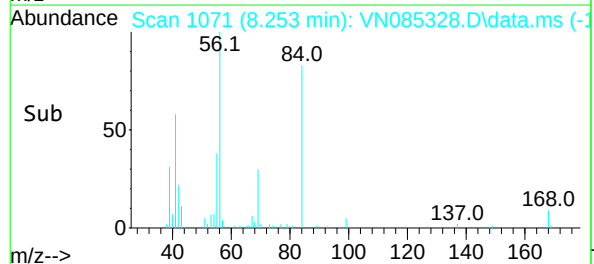
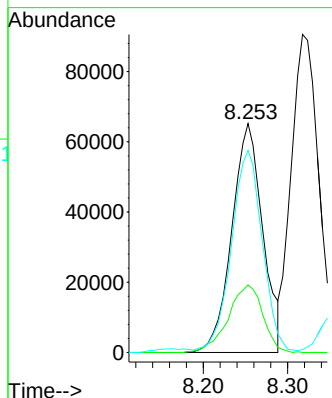
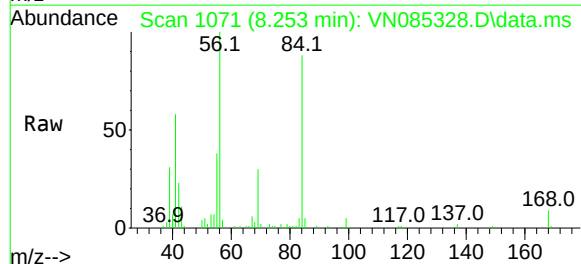
84 87.0 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#32

1,1,1-Trichloroethane

Concen: 50.333 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

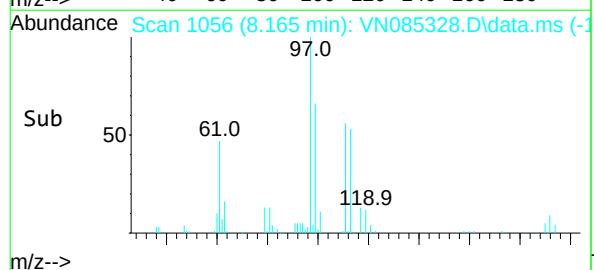
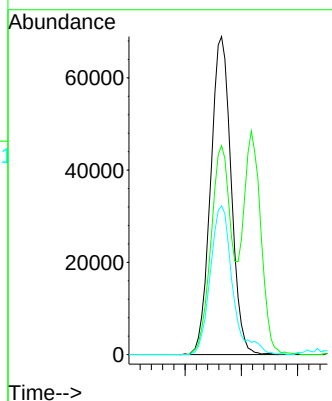
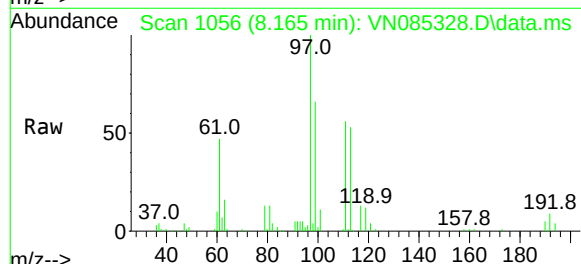
Tgt Ion: 97 Resp: 174266

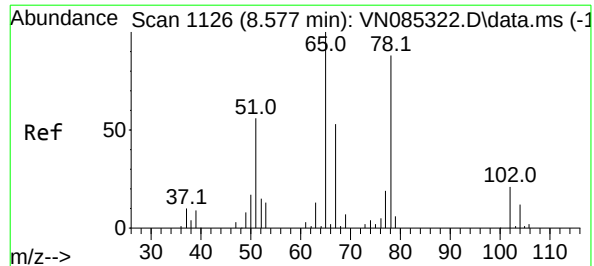
Ion Ratio Lower Upper

97 100

99 67.2 53.3 79.9

61 50.8 39.6 59.4





#33

1,2-Dichloroethane-d4

Concen: 50.547 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVVN122724

Tgt Ion: 65 Resp: 118332

Ion Ratio Lower Upper

65 100

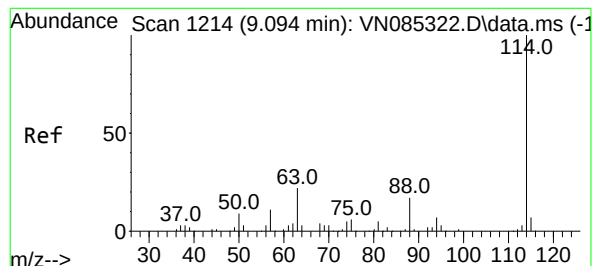
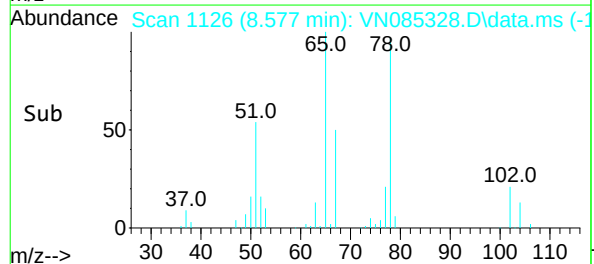
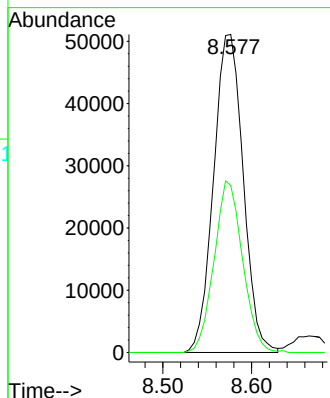
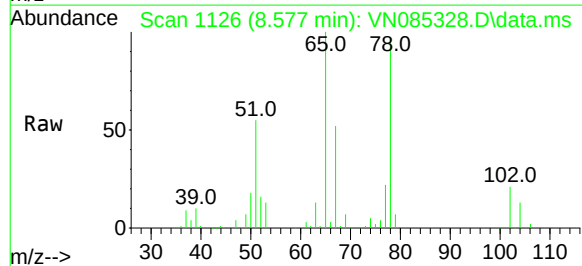
67 51.9 0.0 104.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

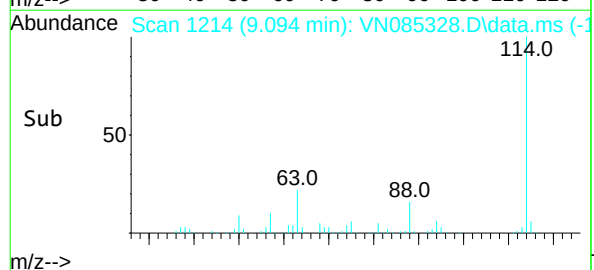
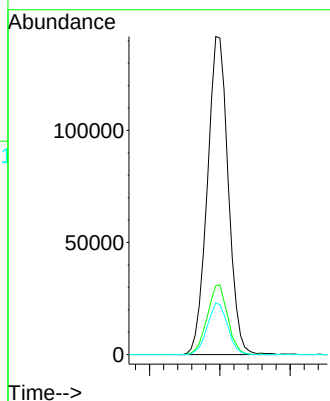
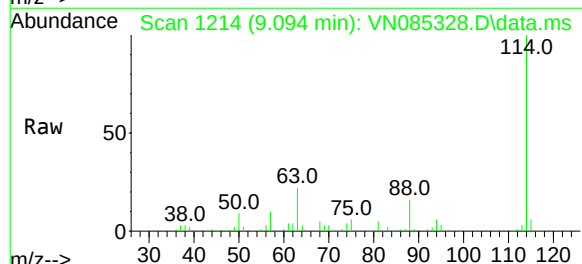
Tgt Ion:114 Resp: 292504

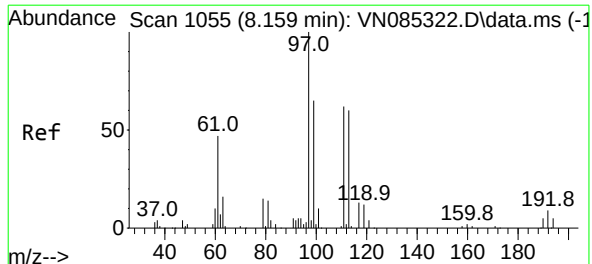
Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.4

88 16.2 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.398 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVVN122724

Tgt Ion:113 Resp: 91966

Ion Ratio Lower Upper

113 100

111 103.9 80.5 120.7

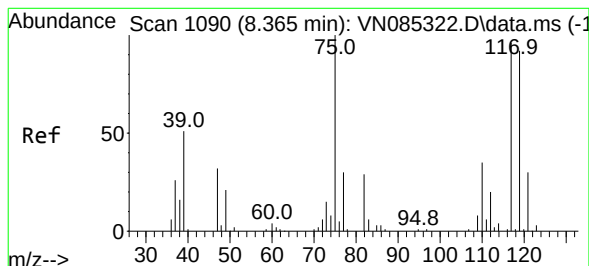
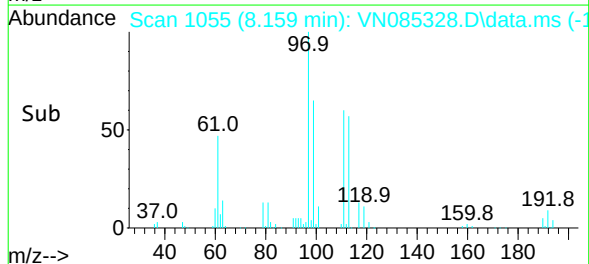
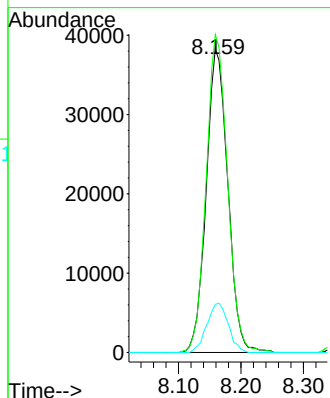
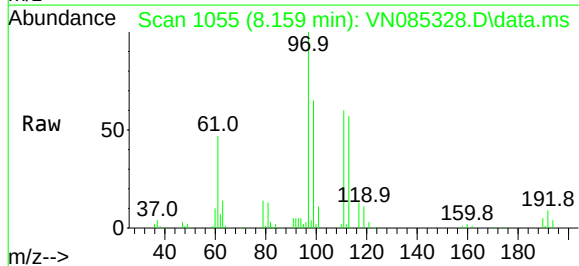
192 16.1 12.9 19.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#36

1,1-Dichloropropene

Concen: 52.447 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

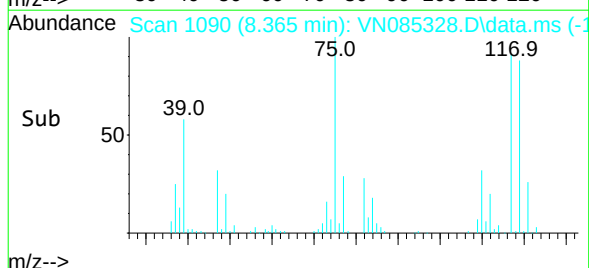
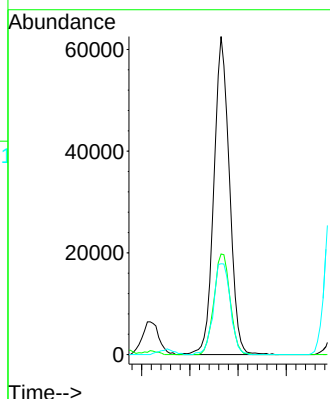
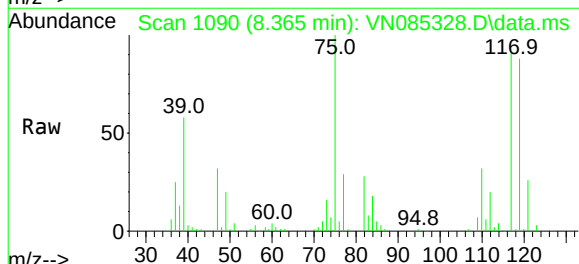
Tgt Ion: 75 Resp: 140127

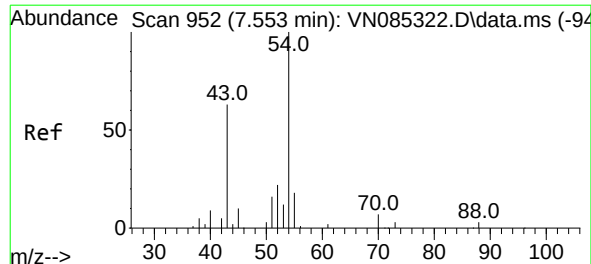
Ion Ratio Lower Upper

75 100

110 32.9 16.6 49.8

77 31.2 24.3 36.5





#37

Ethyl Acetate

Concen: 51.666 ug/l

RT: 7.559 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

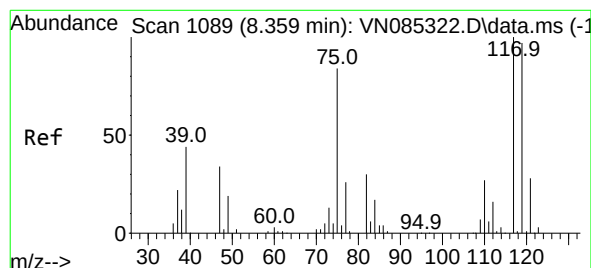
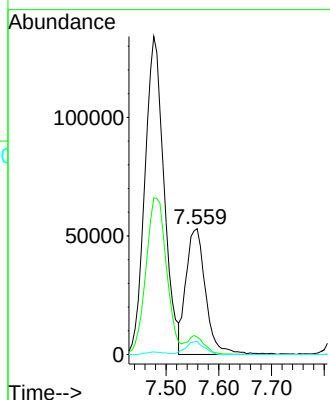
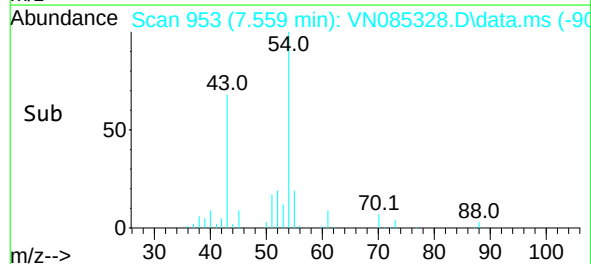
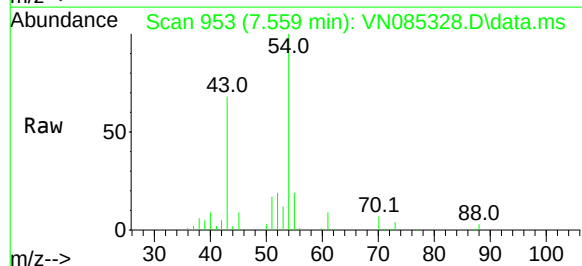
ClientSampleId :

ICVN122724

Tgt Ion:	43	Resp:	137205
Ion	Ratio	Lower	Upper
43	100		
61	13.6	10.4	15.6
70	9.7	8.2	12.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#38

Carbon Tetrachloride

Concen: 52.672 ug/l

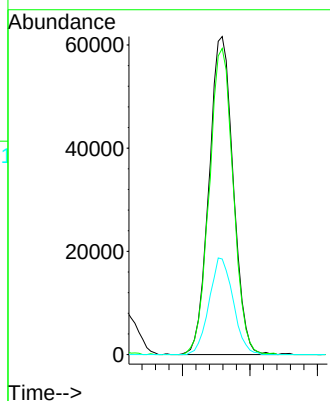
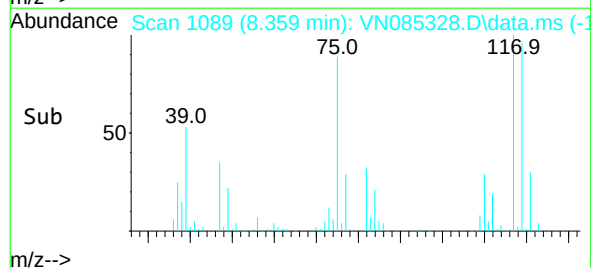
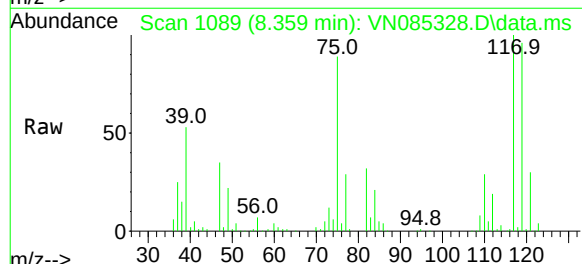
RT: 8.359 min Scan# 1089

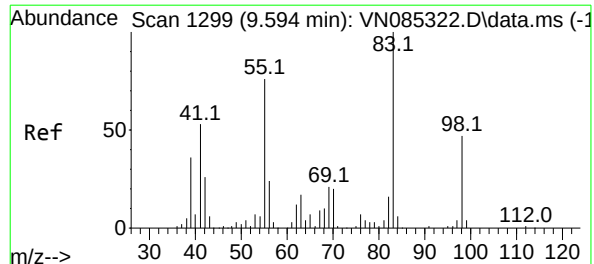
Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion:	117	Resp:	153395
Ion	Ratio	Lower	Upper
117	100		
119	96.3	77.8	116.6
121	30.0	22.5	33.7





#39

Methylcyclohexane

Concen: 56.501 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVVN122724

Tgt Ion: 83 Resp: 156627

Ion Ratio Lower Upper

83 100

55 75.9 60.7 91.1

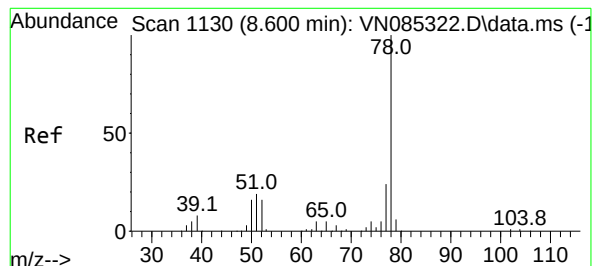
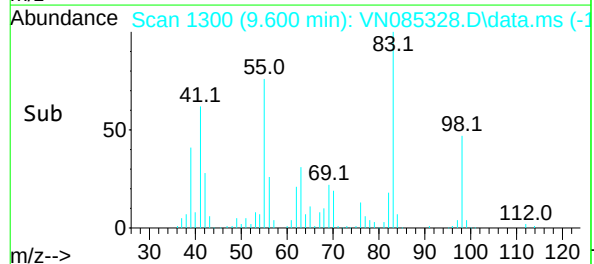
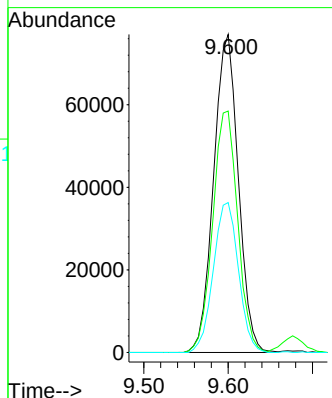
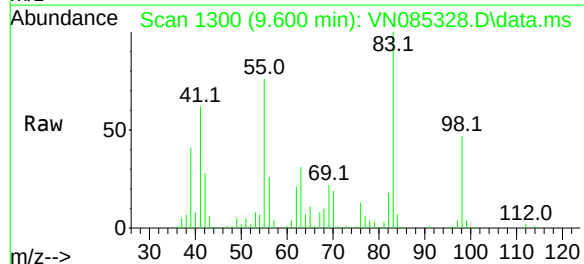
98 47.1 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#40

Benzene

Concen: 52.550 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085328.D

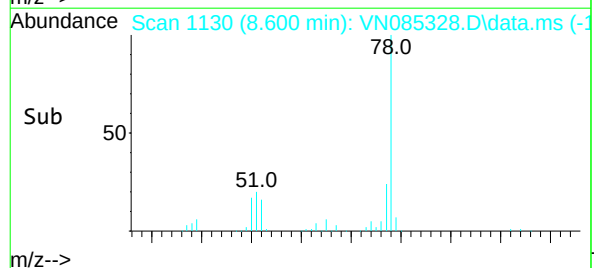
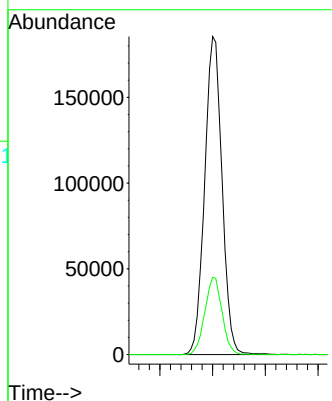
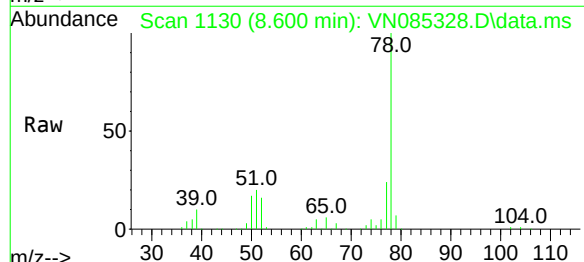
Acq: 27 Dec 2024 15:58

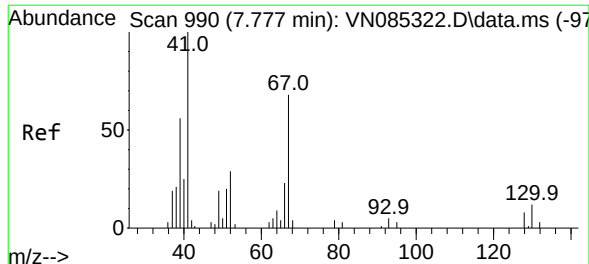
Tgt Ion: 78 Resp: 424501

Ion Ratio Lower Upper

78 100

77 24.3 19.0 28.4





#41

Methacrylonitrile

Concen: 56.677 ug/l

RT: 7.771 min Scan# 98

Delta R.T. -0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVNV122724

Tgt Ion: 41 Resp: 77084

Ion Ratio Lower Upper

41 100

39 55.8 45.8 68.8

67 70.2 57.1 85.7

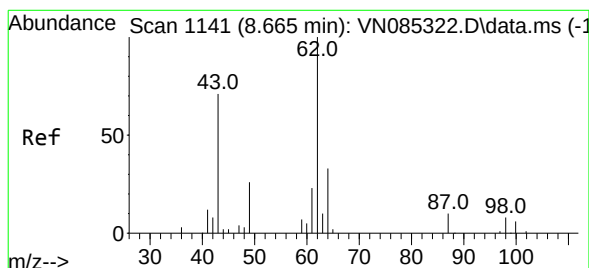
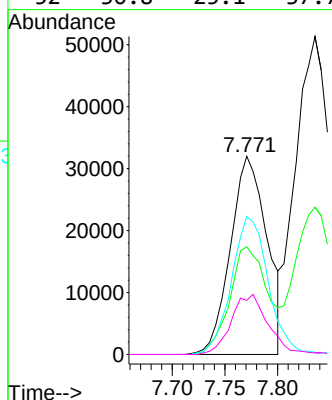
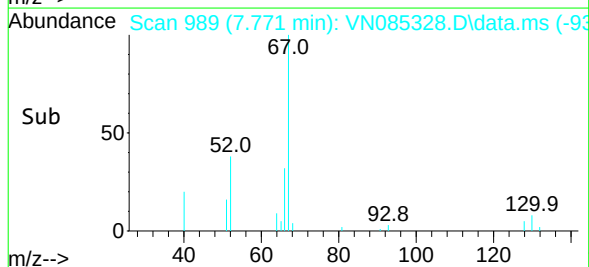
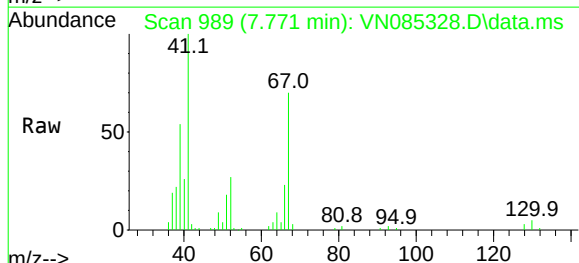
52 30.8 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#42

1,2-Dichloroethane

Concen: 51.568 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085328.D

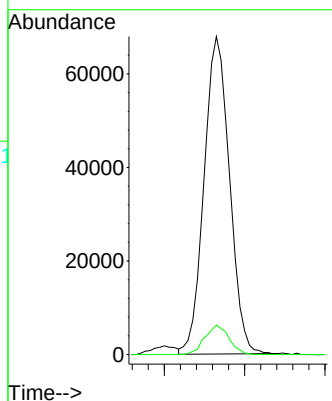
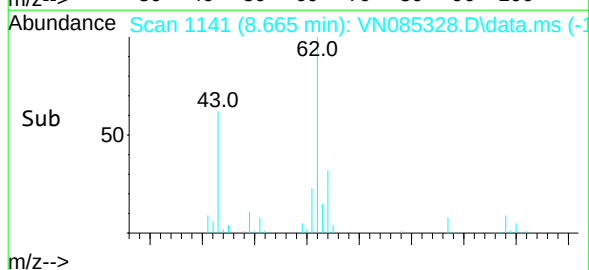
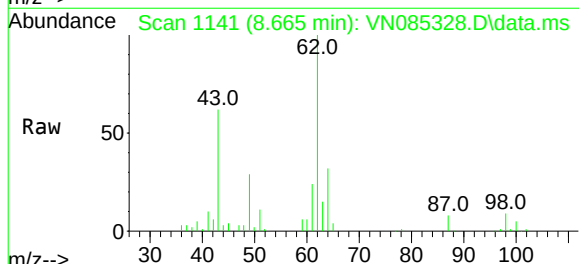
Acq: 27 Dec 2024 15:58

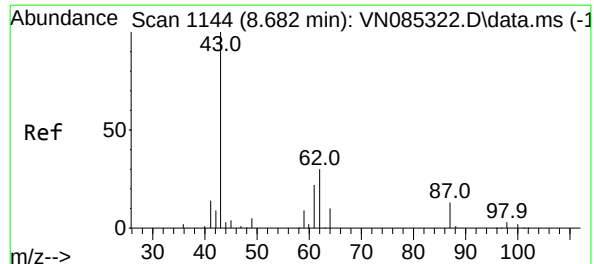
Tgt Ion: 62 Resp: 149352

Ion Ratio Lower Upper

62 100

98 8.8 0.0 17.6





#43

Isopropyl Acetate

Concen: 56.953 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVVN122724

Tgt Ion: 43 Resp: 249040

Ion Ratio Lower Upper

43 100

61 24.9 20.8 31.2

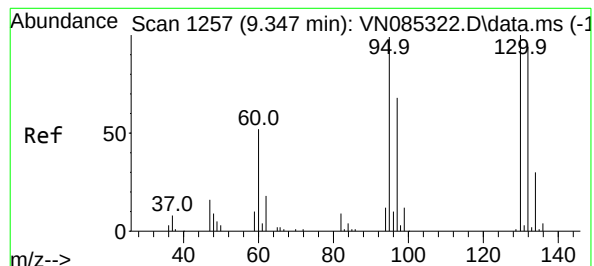
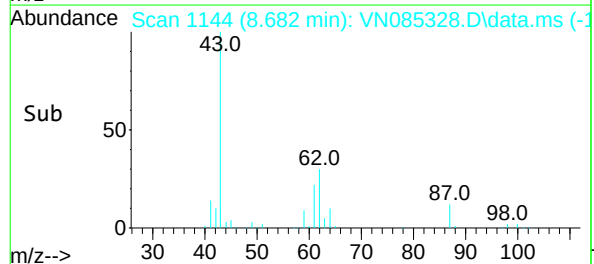
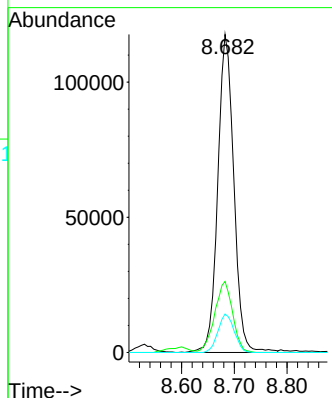
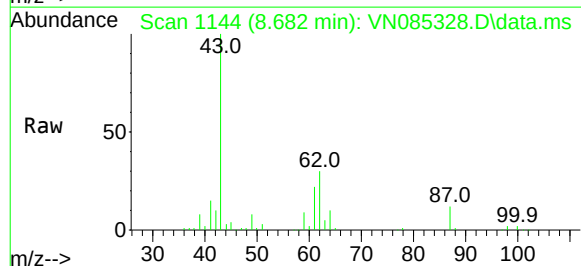
87 12.2 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#44

Trichloroethene

Concen: 50.930 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085328.D

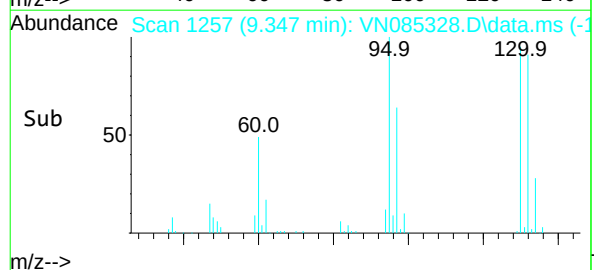
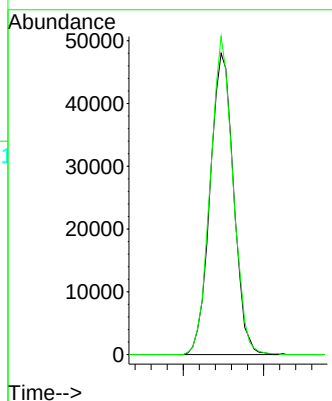
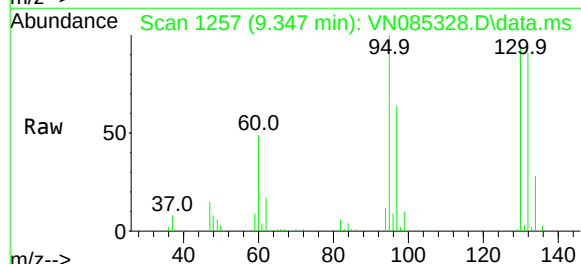
Acq: 27 Dec 2024 15:58

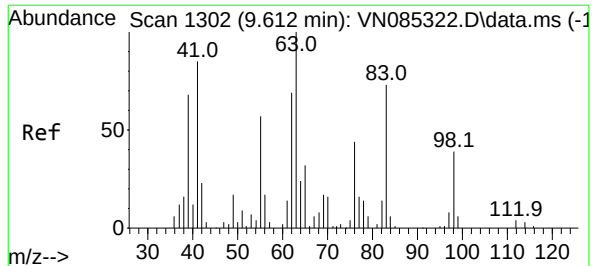
Tgt Ion:130 Resp: 97403

Ion Ratio Lower Upper

130 100

95 105.6 0.0 197.8





#45

1,2-Dichloropropane

Concen: 53.441 ug/l

RT: 9.618 min Scan# 1302

Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICNVN122724

Tgt Ion: 63 Resp: 109589

Ion Ratio Lower Upper

63 100

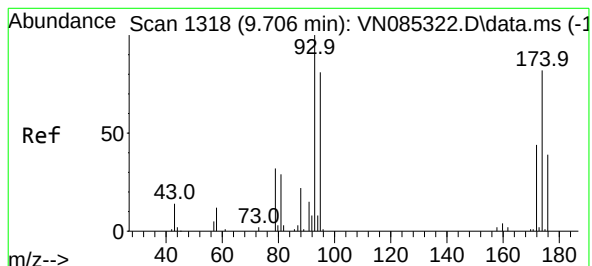
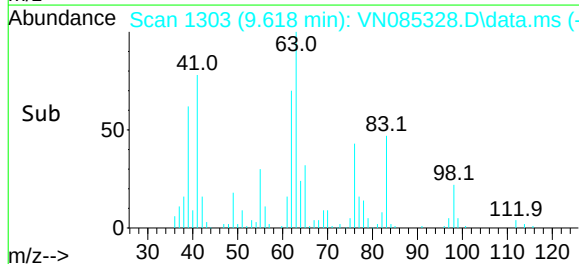
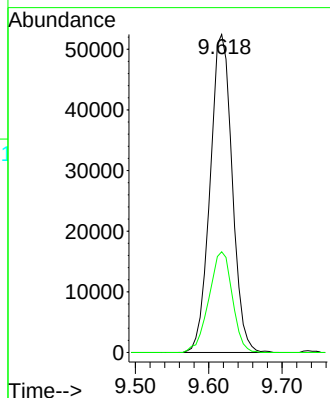
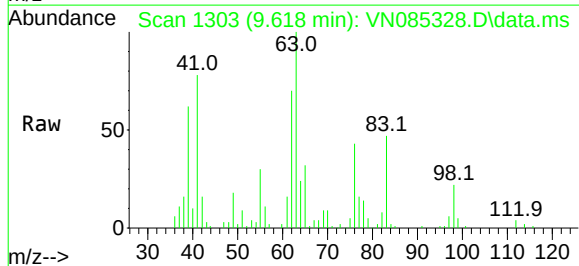
65 31.7 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#46

Dibromomethane

Concen: 53.491 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

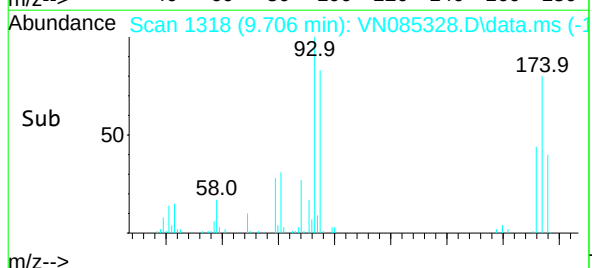
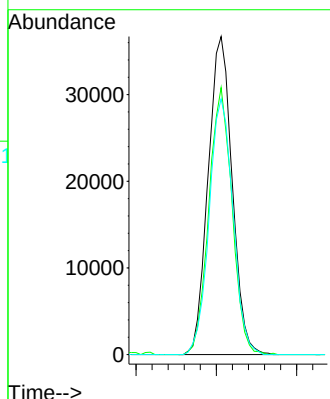
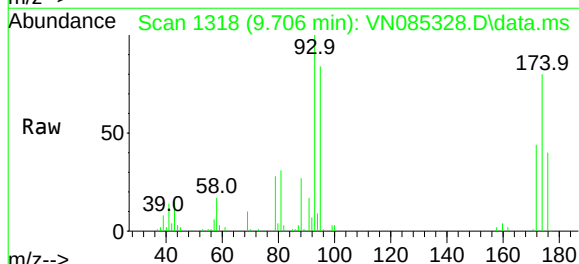
Tgt Ion: 93 Resp: 76287

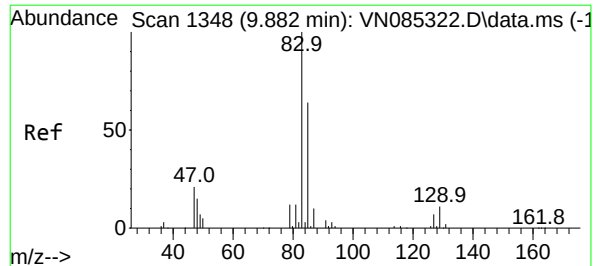
Ion Ratio Lower Upper

93 100

95 80.9 65.3 97.9

174 79.7 66.4 99.6





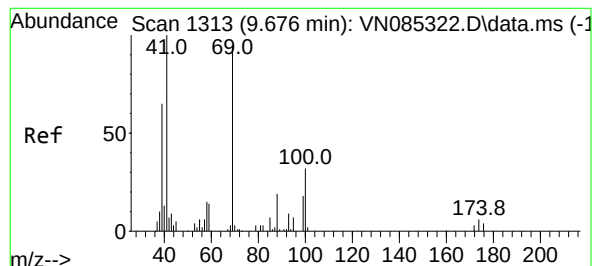
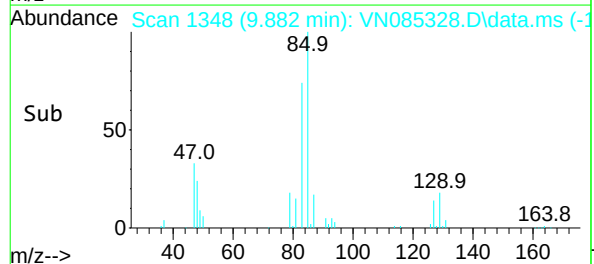
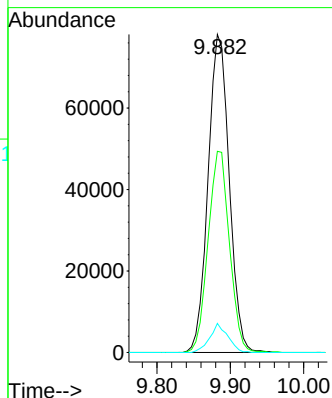
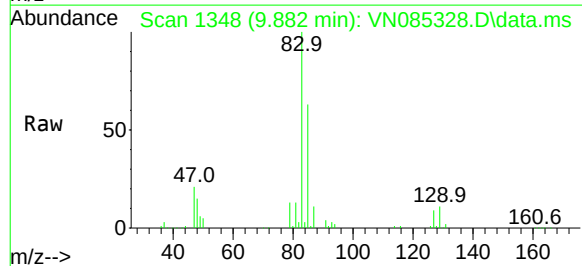
#47
Bromodichloromethane
Concen: 52.728 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VN085328.D
Acq: 27 Dec 2024 15:58

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122724

Tgt Ion: 83 Resp: 156297
Ion Ratio Lower Upper
83 100
85 63.2 51.0 76.4
127 9.2 5.8 8.6

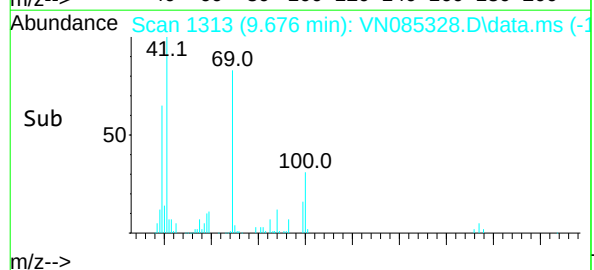
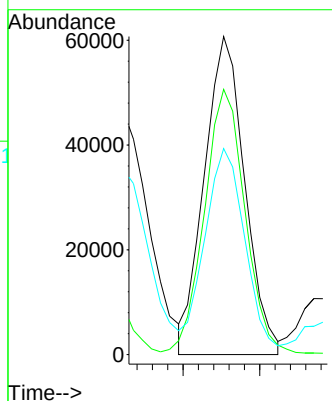
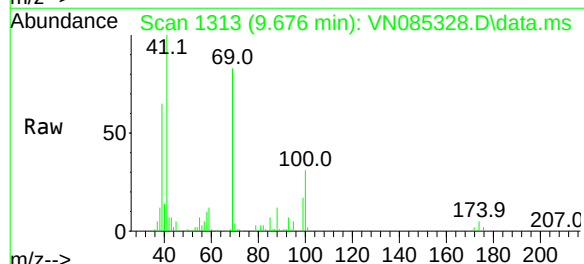
Manual Integrations
APPROVED

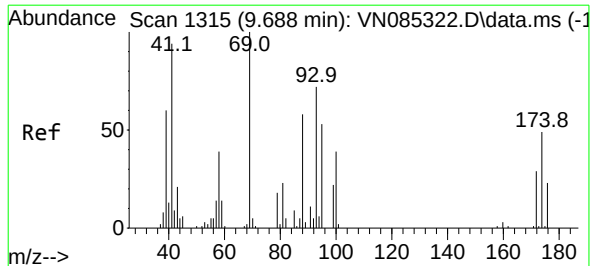
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#48
Methyl methacrylate
Concen: 58.590 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VN085328.D
Acq: 27 Dec 2024 15:58

Tgt Ion: 41 Resp: 111168
Ion Ratio Lower Upper
41 100
69 84.6 67.7 101.5
39 64.9 51.2 76.8





#49

1,4-Dioxane

Concen: 1197.029 ug/l

RT: 9.694 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VN085328.D

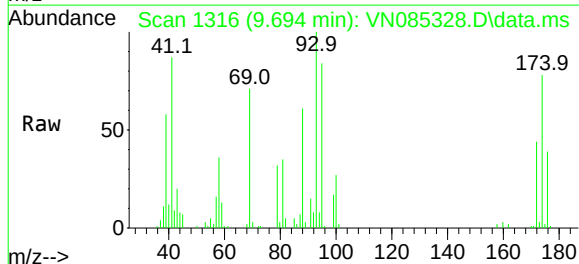
Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICNVN122724



Tgt Ion: 88 Resp: 34268

Ion Ratio Lower Upper

88 100

43 30.3 22.1 33.1

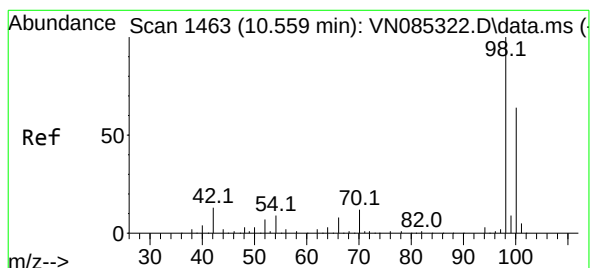
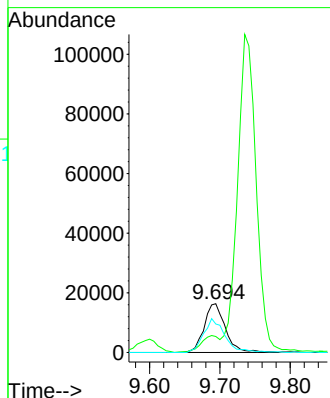
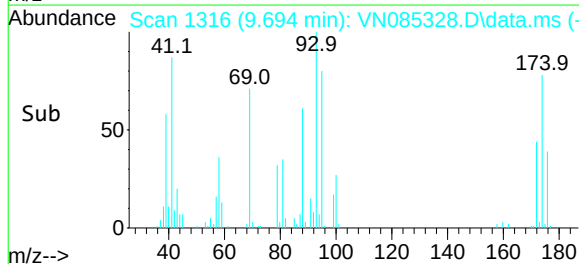
58 70.6 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#50

Toluene-d8

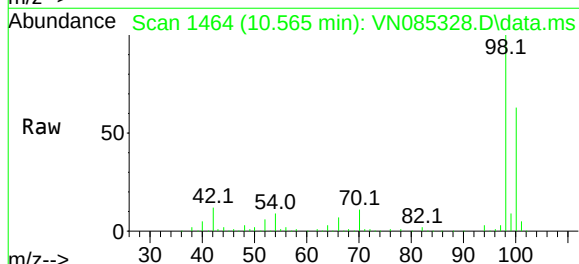
Concen: 51.871 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

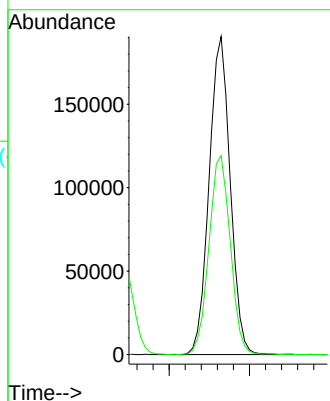
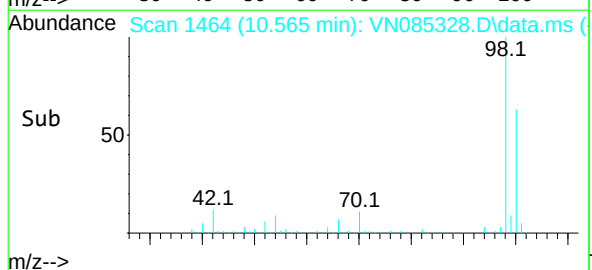


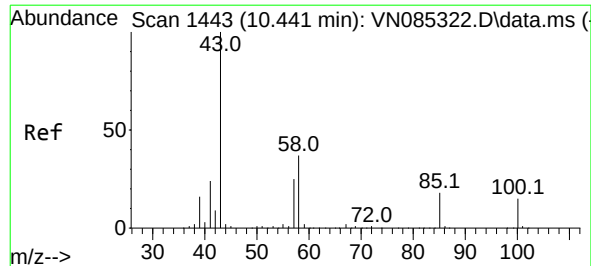
Tgt Ion: 98 Resp: 347336

Ion Ratio Lower Upper

98 100

100 63.6 51.5 77.3





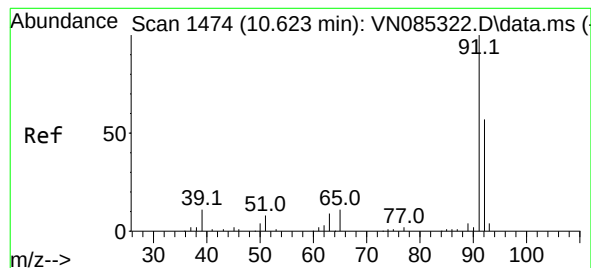
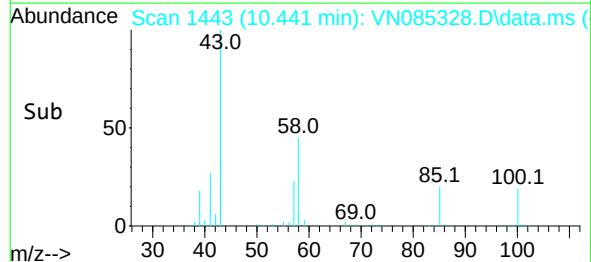
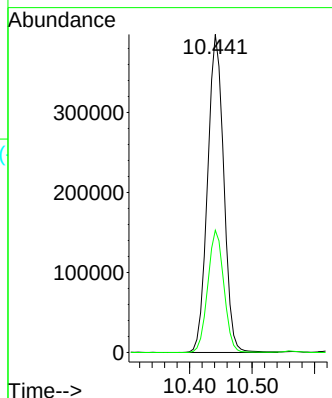
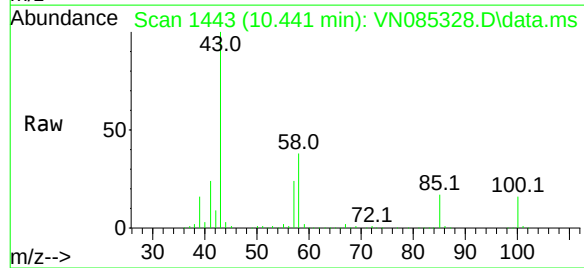
#51
4-Methyl-2-Pentanone
Concen: 290.641 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085328.D
Acq: 27 Dec 2024 15:58

Instrument :
MSVOA_N
ClientSampleId :
ICV122724

Tgt Ion: 43 Resp: 714200
Ion Ratio Lower Upper
43 100
58 38.3 30.3 45.5

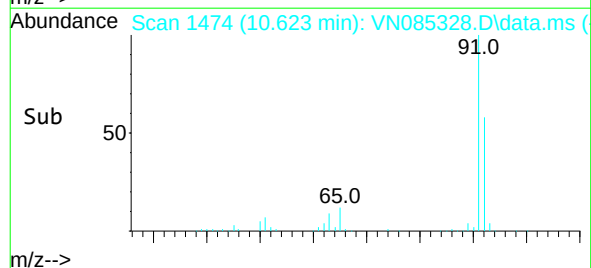
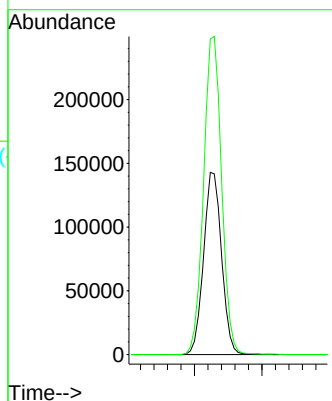
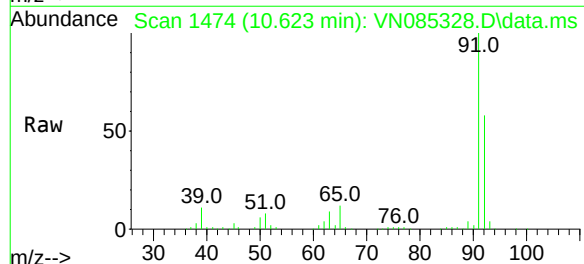
Manual Integrations
APPROVED

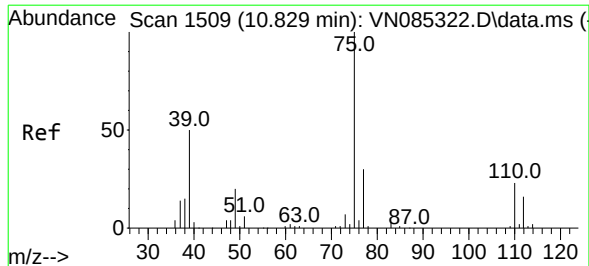
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#52
Toluene
Concen: 54.941 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VN085328.D
Acq: 27 Dec 2024 15:58

Tgt Ion: 92 Resp: 264263
Ion Ratio Lower Upper
92 100
91 175.2 140.2 210.4





#53

t-1,3-Dichloropropene

Concen: 56.497 ug/l

RT: 10.835 min Scan# 1509

Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVVN122724

Tgt Ion: 75 Resp: 164691

Ion Ratio Lower Upper

75 100

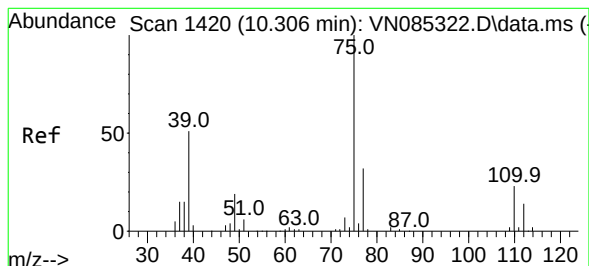
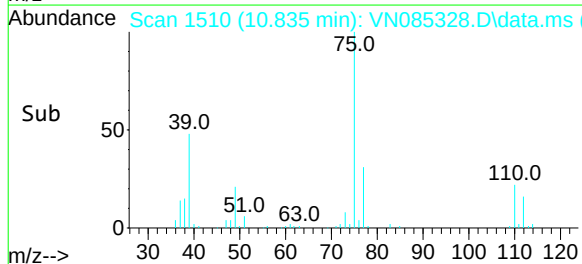
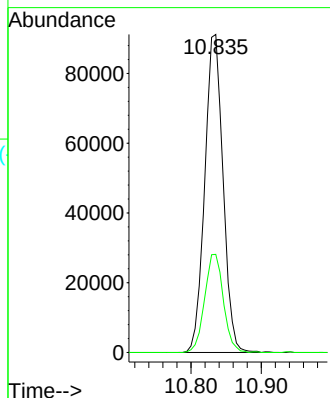
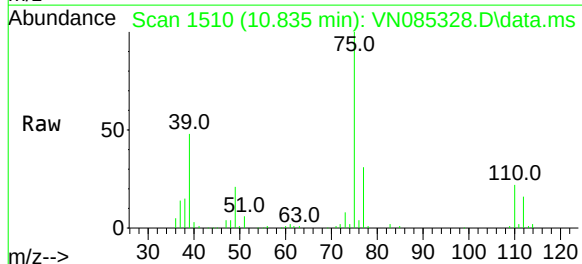
77 30.8 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#54

cis-1,3-Dichloropropene

Concen: 55.040 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

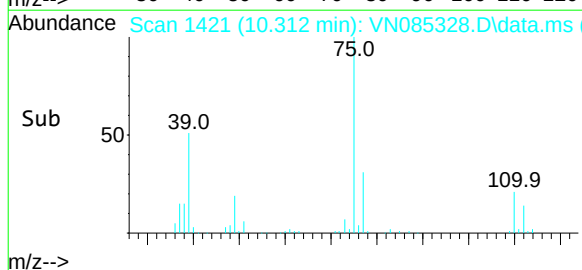
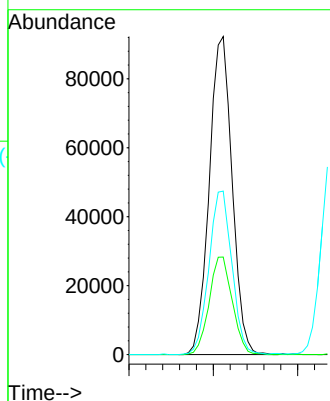
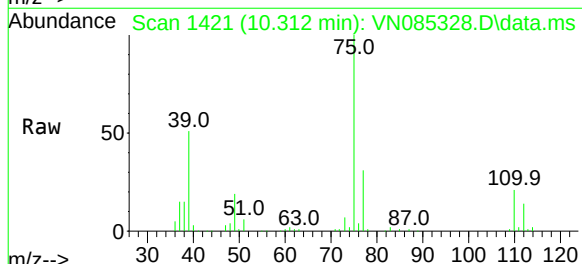
Tgt Ion: 75 Resp: 173493

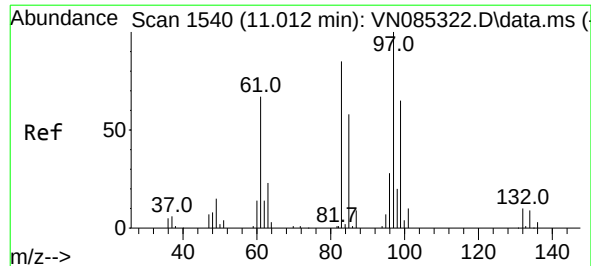
Ion Ratio Lower Upper

75 100

77 30.7 25.5 38.3

39 51.4 40.5 60.7





#55

1,1,2-Trichloroethane

Concen: 53.314 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

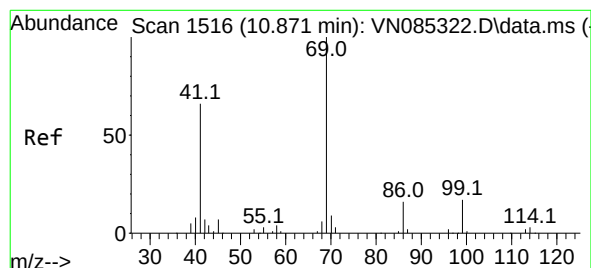
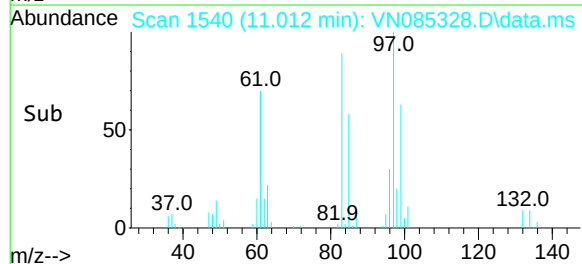
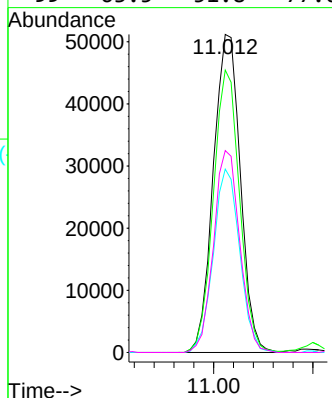
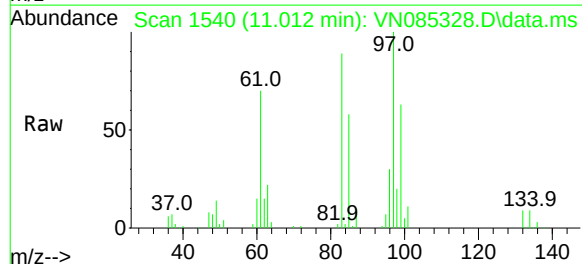
ClientSampleId :

ICNVN122724

Tgt Ion:	97	Resp:	96817
Ion	Ratio	Lower	Upper
97	100		
83	88.8	67.7	101.5
85	57.7	46.2	69.4
99	63.5	51.8	77.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#56

Ethyl methacrylate

Concen: 61.733 ug/l

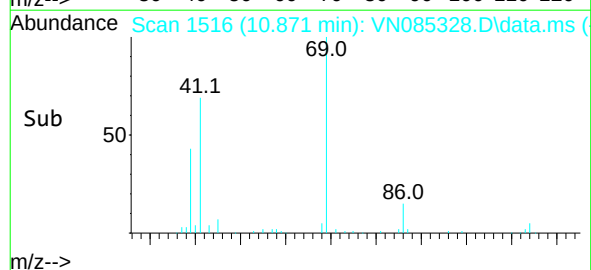
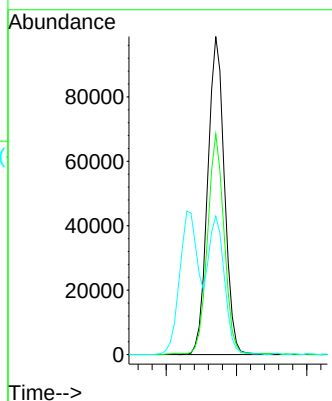
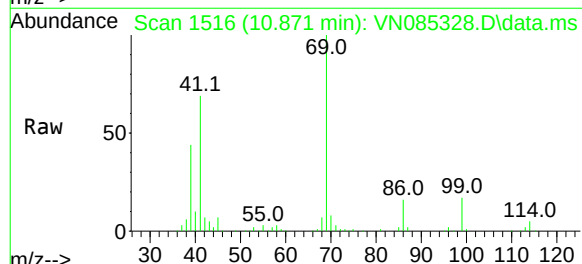
RT: 10.871 min Scan# 1516

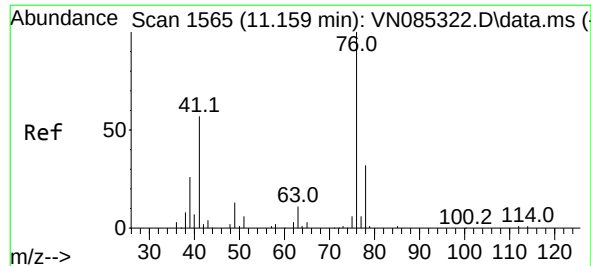
Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion:	69	Resp:	163272
Ion	Ratio	Lower	Upper
69	100		
41	68.8	54.3	81.5
39	41.9	32.0	48.0





#57

1,3-Dichloropropane

Concen: 54.020 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVVN122724

Tgt Ion: 76 Resp: 172176

Ion Ratio Lower Upper

76 100

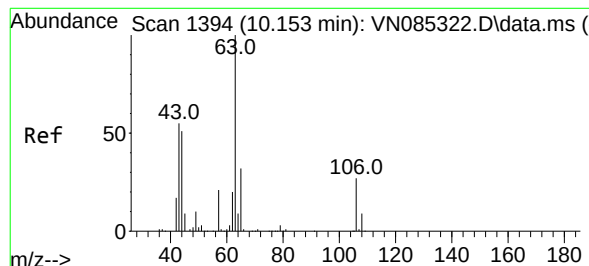
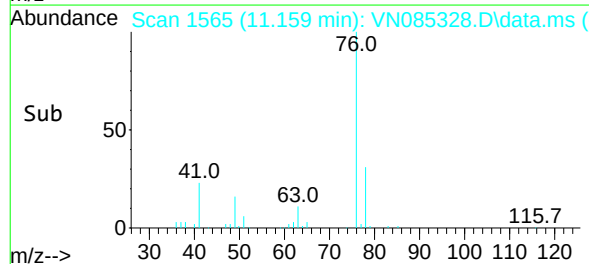
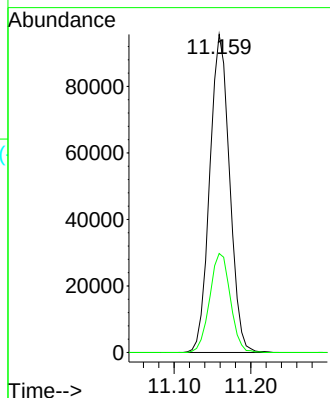
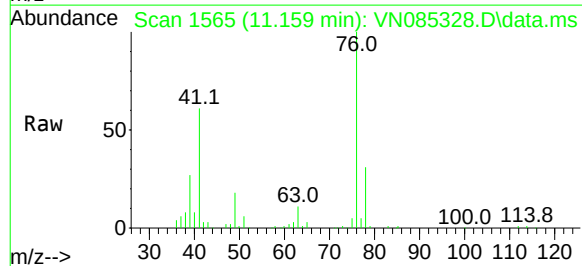
78 32.3 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#58

2-Chloroethyl Vinyl ether

Concen: 280.905 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VN085328.D

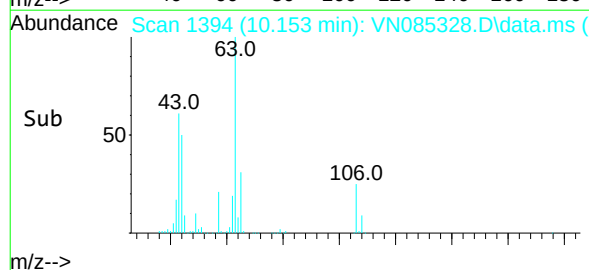
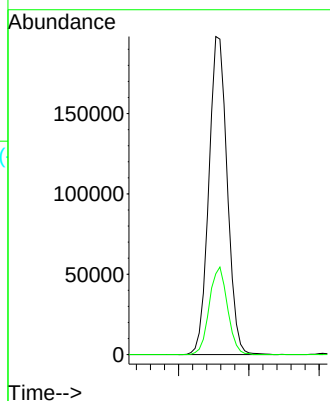
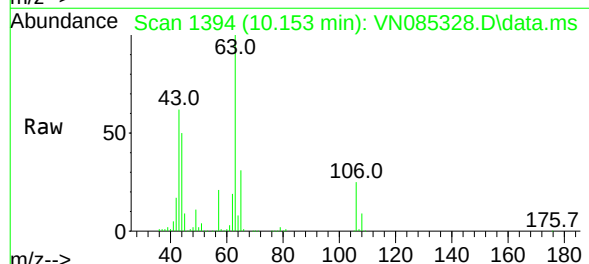
Acq: 27 Dec 2024 15:58

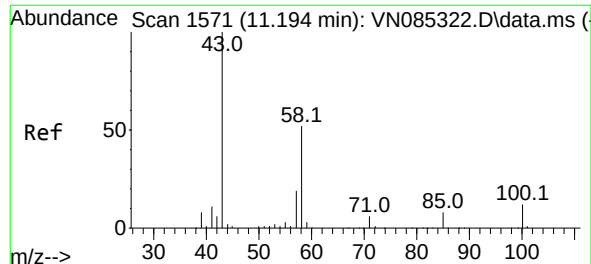
Tgt Ion: 63 Resp: 359446

Ion Ratio Lower Upper

63 100

106 27.2 22.1 33.1





#59

2-Hexanone

Concen: 304.633 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICNVN122724

Tgt Ion: 43 Resp: 519370

Ion Ratio Lower Upper

43 100

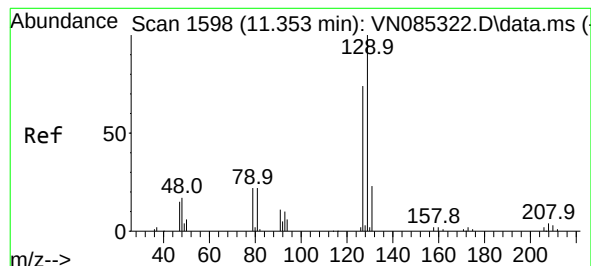
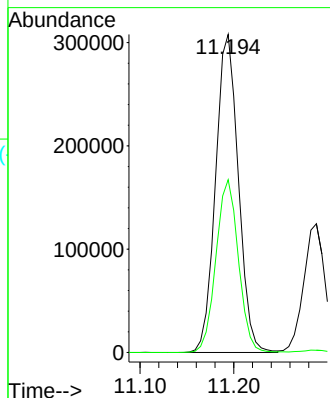
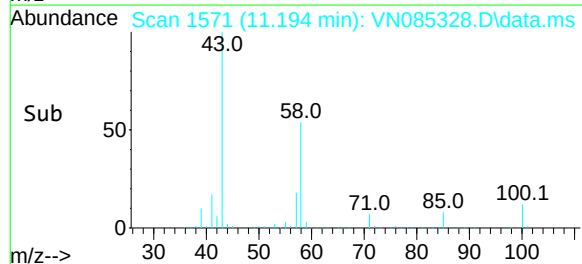
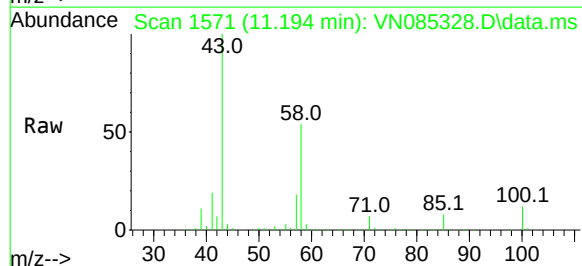
58 53.6 26.5 79.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#60

Dibromochloromethane

Concen: 56.856 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.006 min

Lab File: VN085328.D

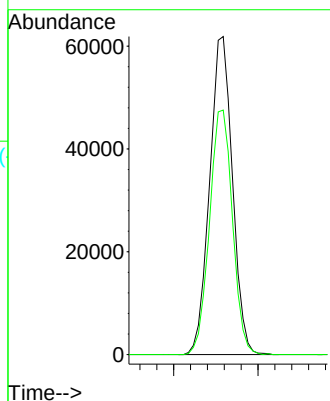
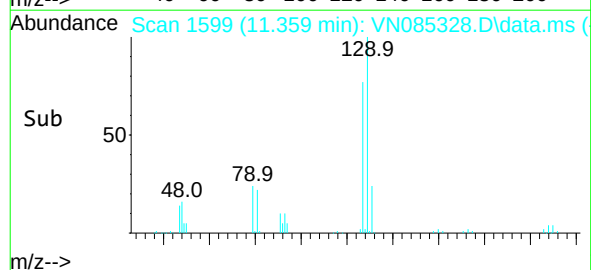
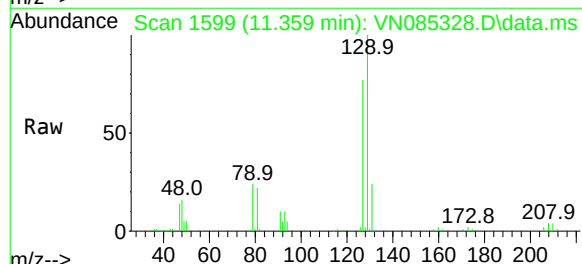
Acq: 27 Dec 2024 15:58

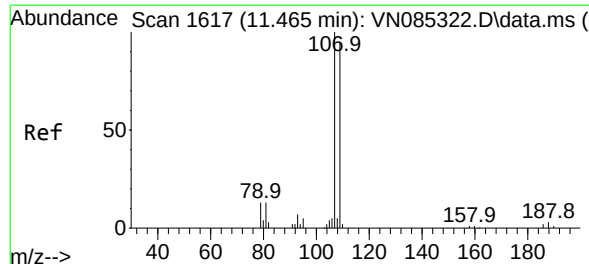
Tgt Ion:129 Resp: 116293

Ion Ratio Lower Upper

129 100

127 77.3 38.3 114.9





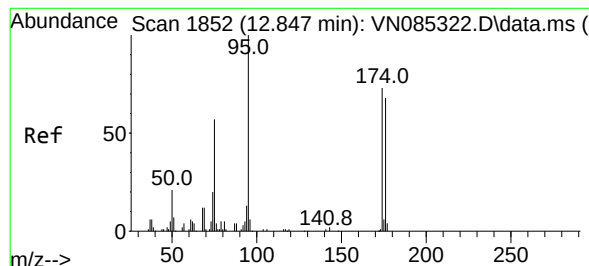
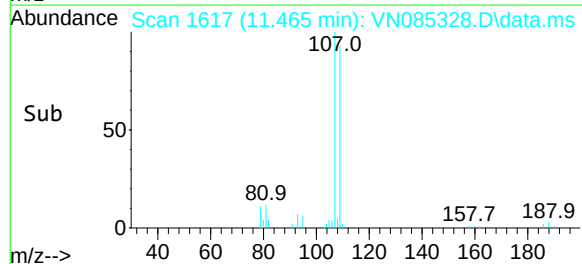
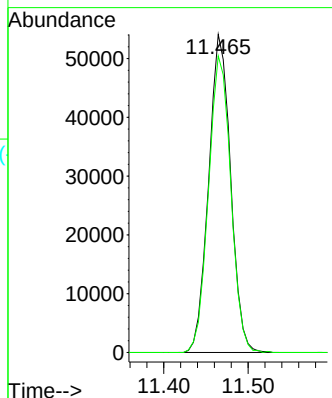
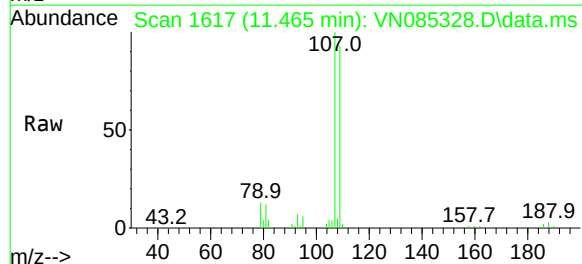
#61
1,2-Dibromoethane
Concen: 54.445 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085328.D
Acq: 27 Dec 2024 15:58

Instrument :
MSVOA_N
ClientSampleId :
ICNVN122724

Tgt Ion: 107 Resp: 97817
Ion Ratio Lower Upper
107 100
109 94.6 74.9 112.3

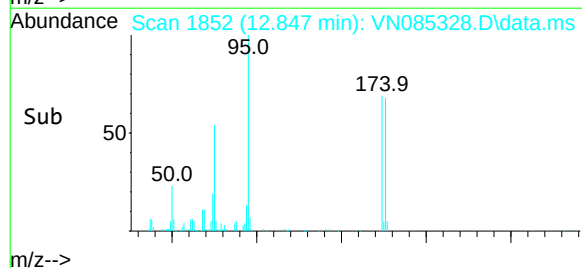
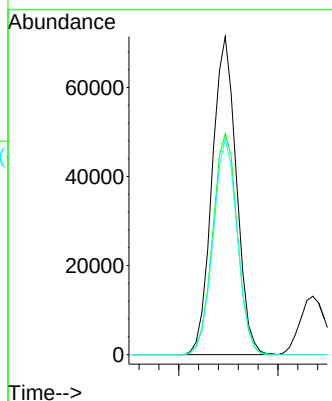
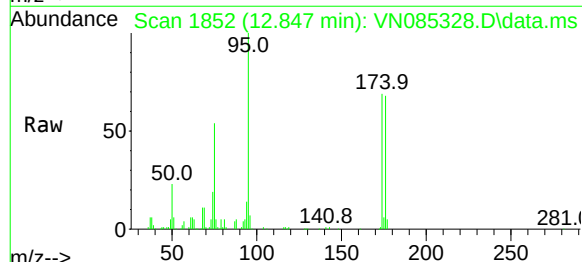
Manual Integrations
APPROVED

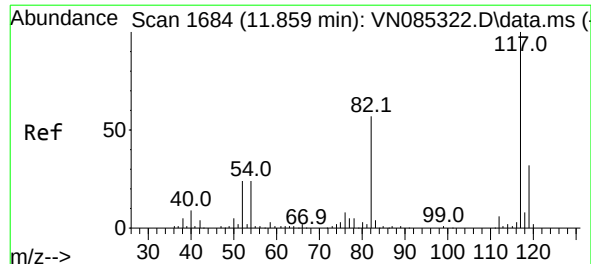
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#62
4-Bromofluorobenzene
Concen: 54.619 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085328.D
Acq: 27 Dec 2024 15:58

Tgt Ion: 95 Resp: 121466
Ion Ratio Lower Upper
95 100
174 70.1 0.0 143.2
176 67.4 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1684

Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICNVN122724

Tgt Ion:117 Resp: 256012

Ion Ratio Lower Upper

117 100

82 57.8 45.7 68.5

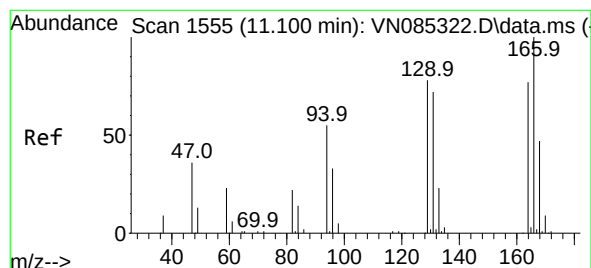
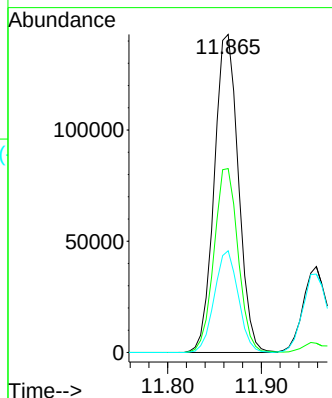
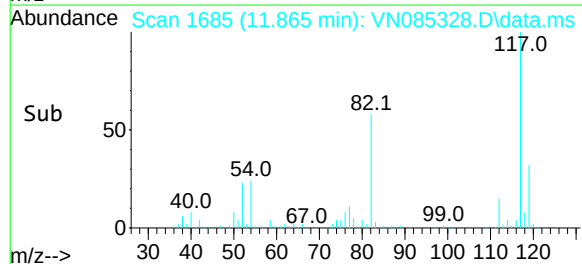
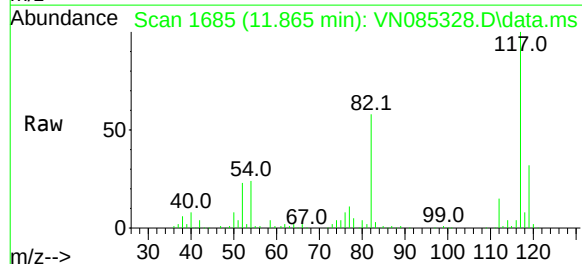
119 32.0 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#64

Tetrachloroethene

Concen: 52.056 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion:164 Resp: 84445

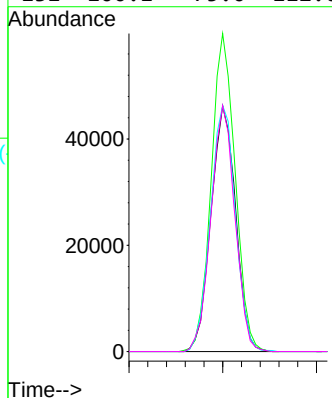
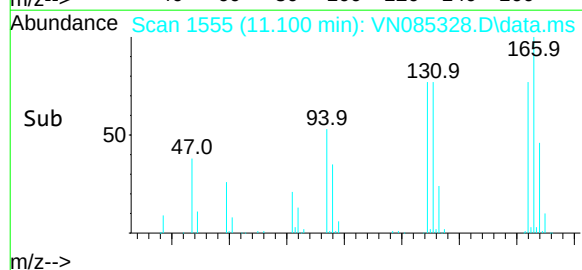
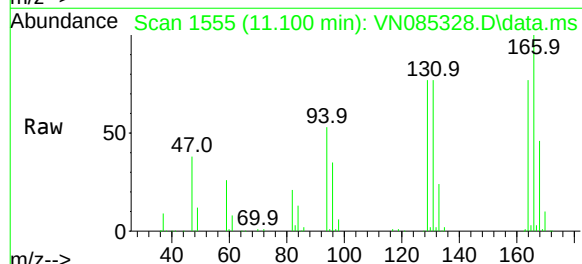
Ion Ratio Lower Upper

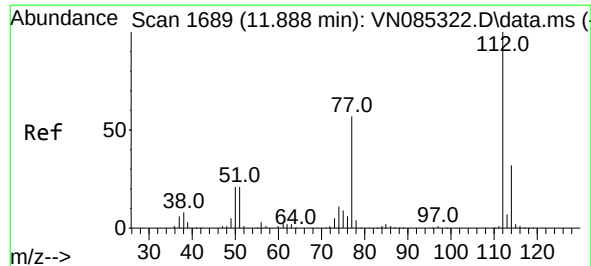
164 100

166 129.5 104.0 156.0

129 100.2 81.3 121.9

131 100.1 75.0 112.6





#65

Chlorobenzene

Concen: 52.014 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVVN122724

Tgt Ion:112 Resp: 287764

Ion Ratio Lower Upper

112 100

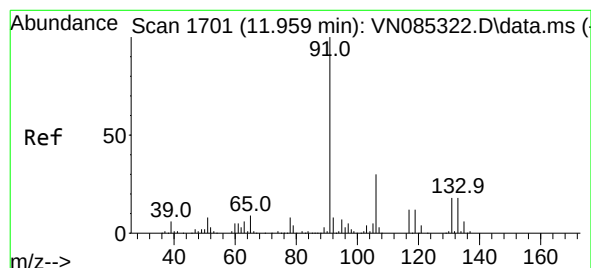
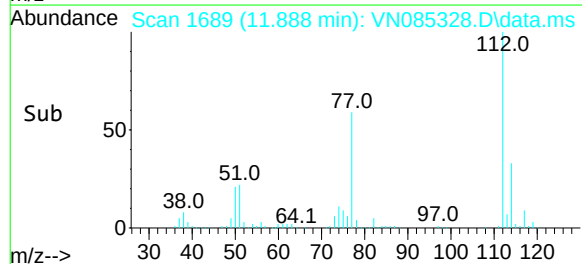
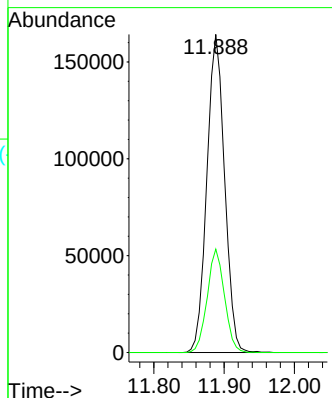
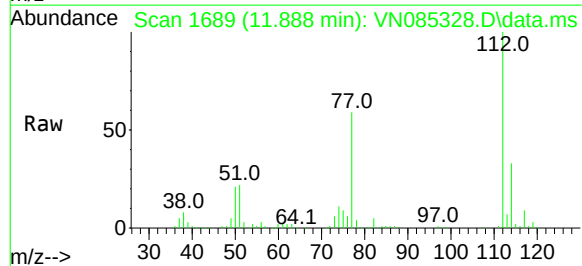
114 32.5 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 52.882 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

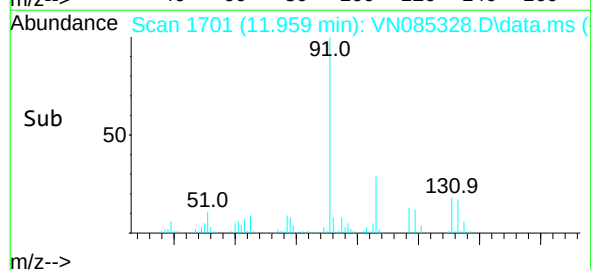
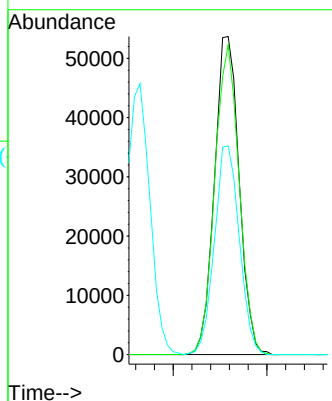
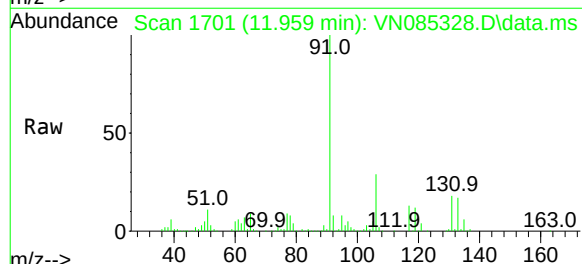
Tgt Ion:131 Resp: 98192

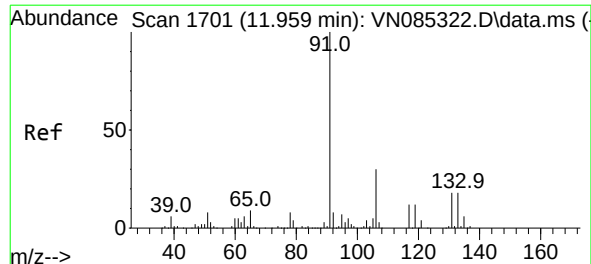
Ion Ratio Lower Upper

131 100

133 96.0 48.3 144.9

119 66.2 33.4 100.1





#67

Ethyl Benzene

Concen: 55.669 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICV122724

Tgt Ion: 91 Resp: 512193

Ion Ratio Lower Upper

91 100

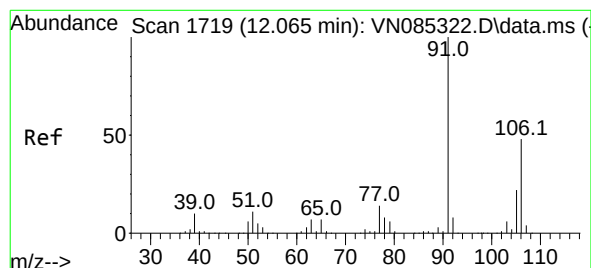
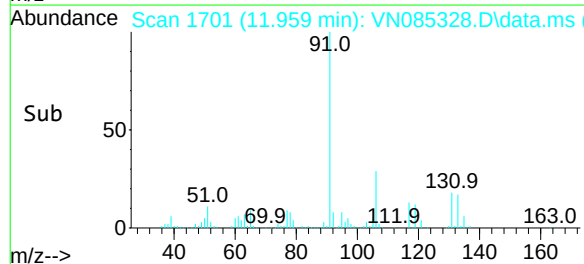
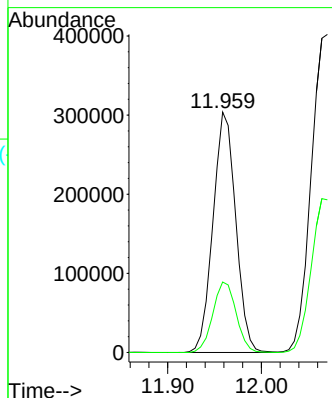
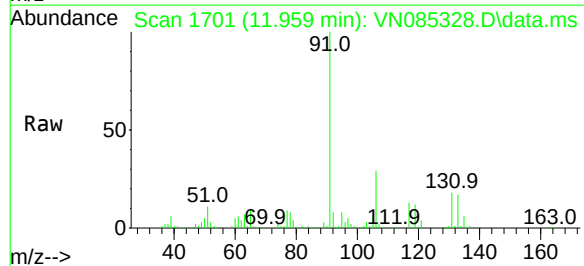
106 29.3 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#68

m/p-Xylenes

Concen: 114.768 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. 0.000 min

Lab File: VN085328.D

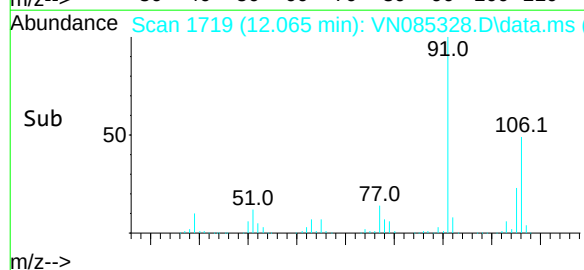
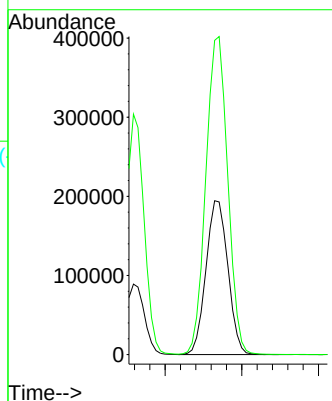
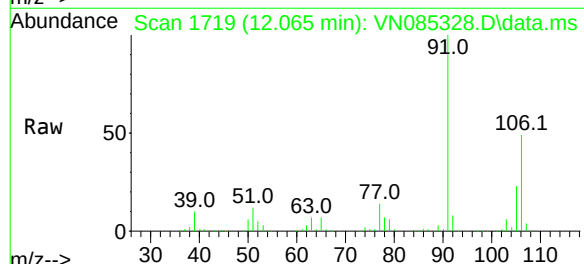
Acq: 27 Dec 2024 15:58

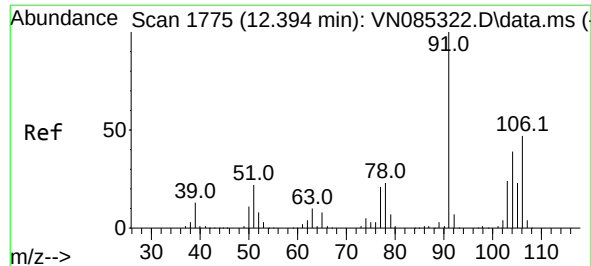
Tgt Ion:106 Resp: 386429

Ion Ratio Lower Upper

106 100

91 206.3 165.2 247.8





#69

o-Xylene

Concen: 56.809 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICNVN122724

Tgt Ion:106 Resp: 185036

Ion Ratio Lower Upper

106 100

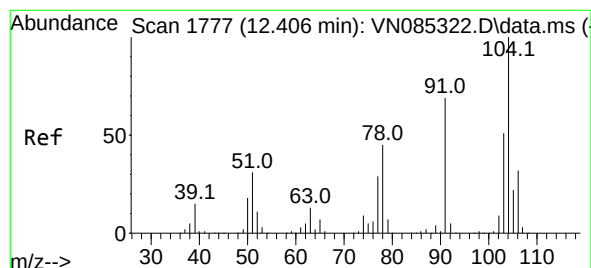
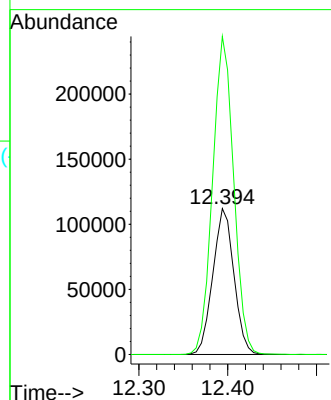
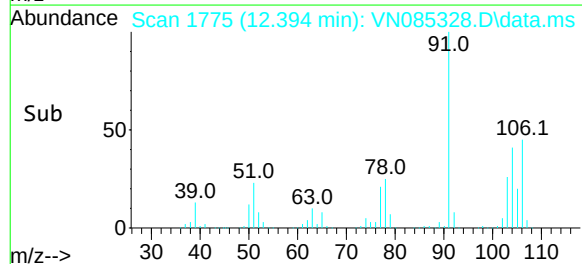
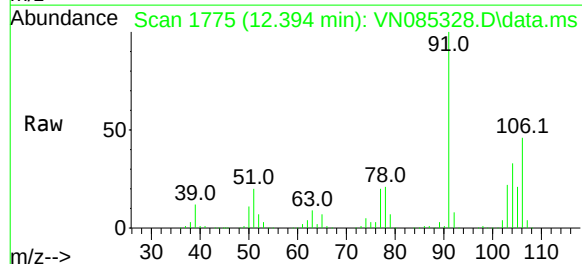
91 217.8 107.3 321.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#70

Styrene

Concen: 59.331 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

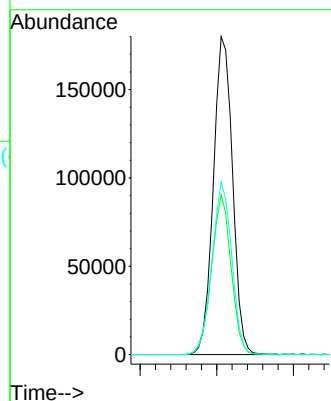
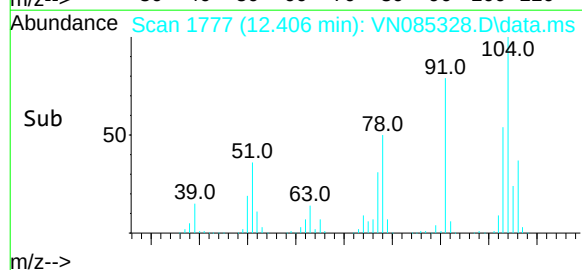
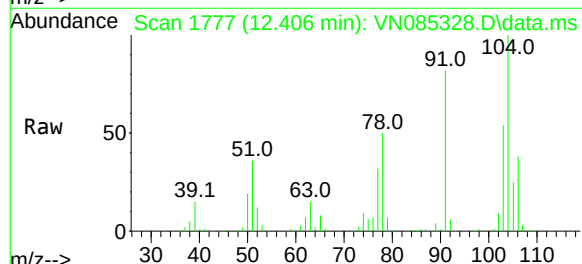
Tgt Ion:104 Resp: 313206

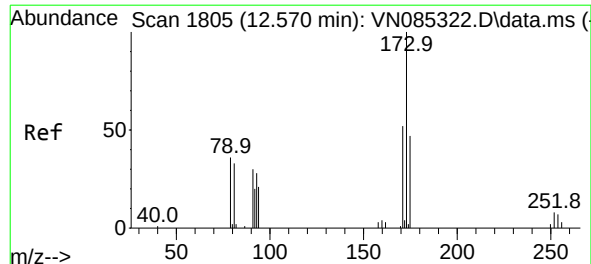
Ion Ratio Lower Upper

104 100

78 51.1 40.7 61.1

103 55.8 44.1 66.1





#71

Bromoform

Concen: 56.226 ug/l

RT: 12.576 min Scan# 1805

Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

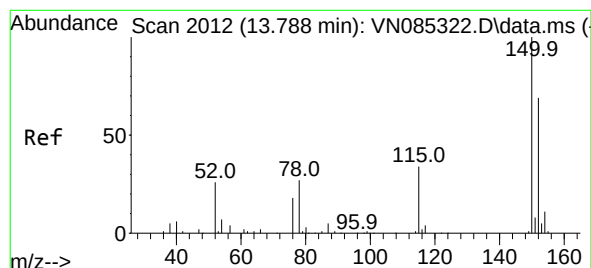
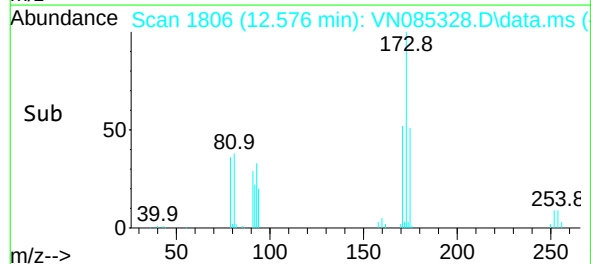
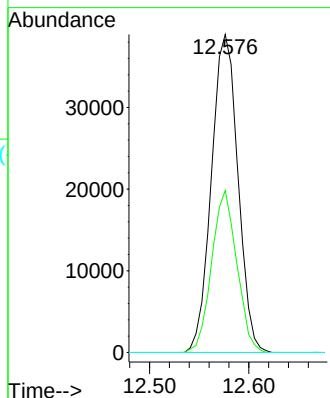
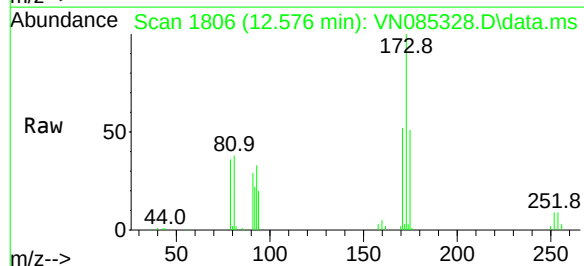
ICV122724

Tgt Ion:	173	Resp:	72309
Ion Ratio	Lower	Upper	
173	100		
175	48.3	24.4	73.4
254	0.0	0.0	0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

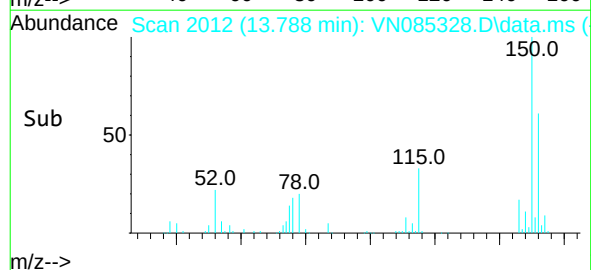
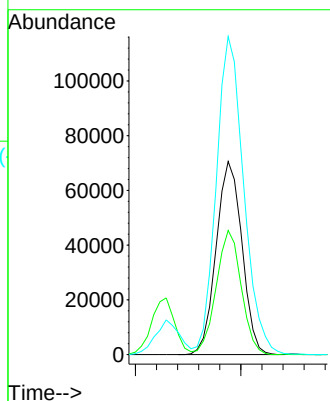
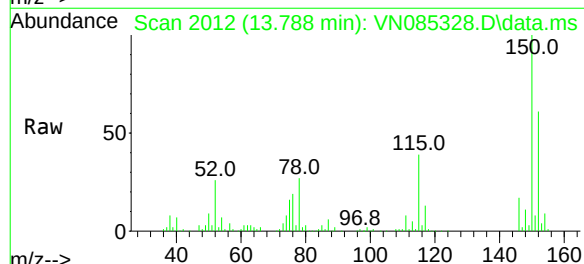
RT: 13.788 min Scan# 2012

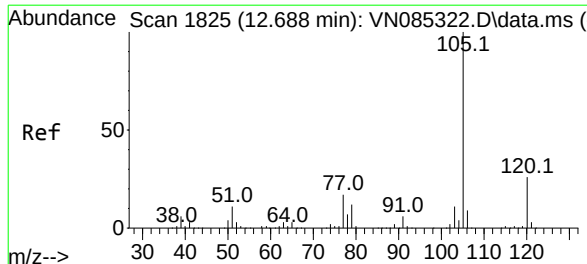
Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion:	152	Resp:	120013
Ion Ratio	Lower	Upper	
152	100		
115	62.5	30.4	91.3
150	175.7	0.0	345.0





#73

Isopropylbenzene

Concen: 54.966 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICNVN122724

Tgt Ion: 105 Resp: 474369

Ion Ratio Lower Upper

105 100

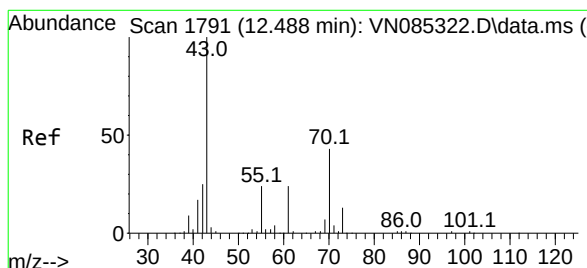
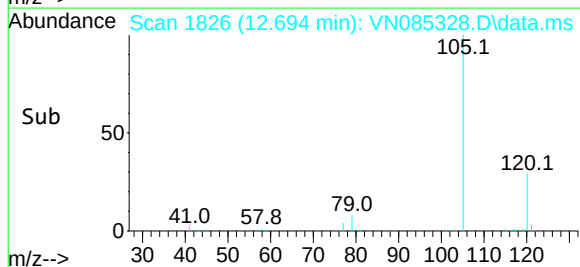
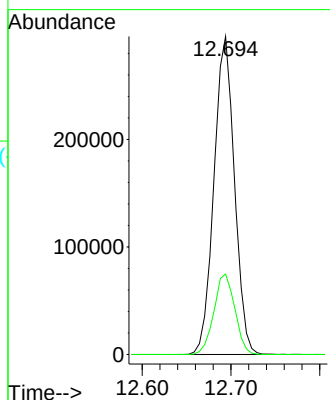
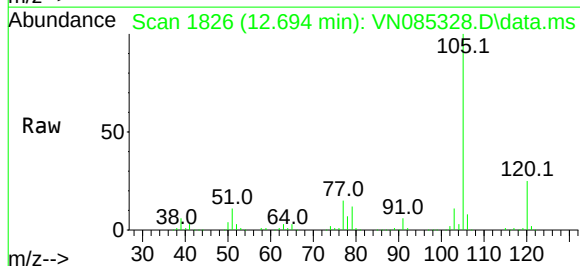
120 25.8 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#74

N-ethyl acetate

Concen: 57.337 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion: 43 Resp: 211810

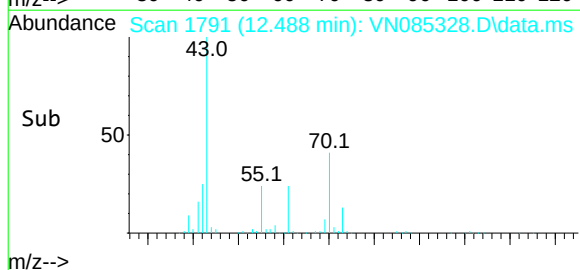
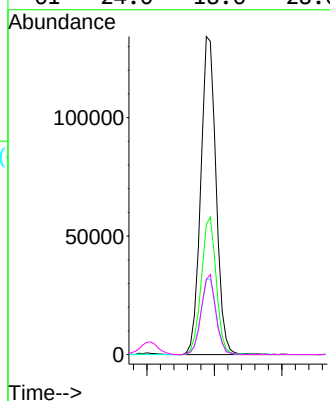
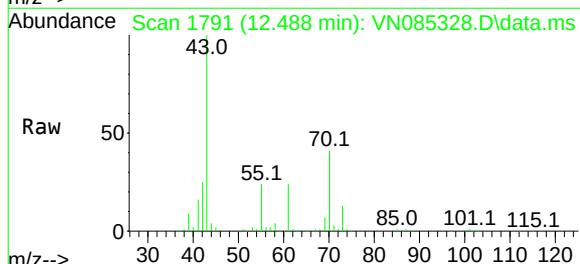
Ion Ratio Lower Upper

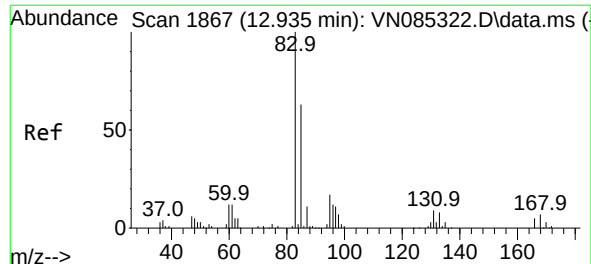
43 100

70 42.2 33.4 50.0

55 24.1 19.2 28.8

61 24.0 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 49.956 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICV0122724

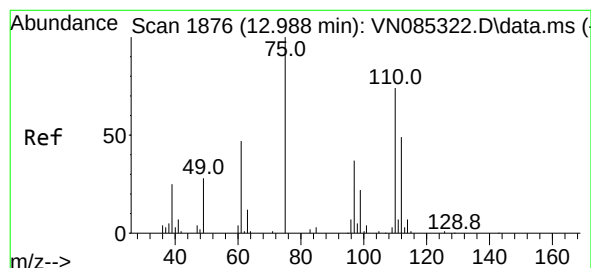
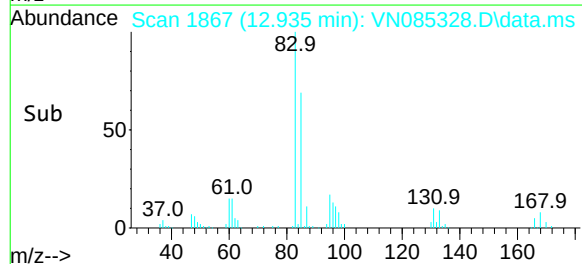
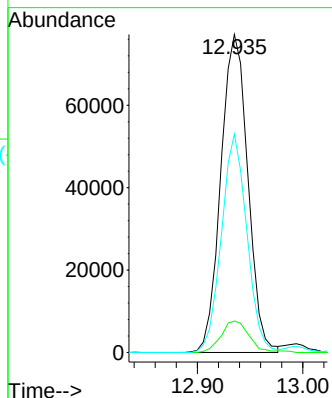
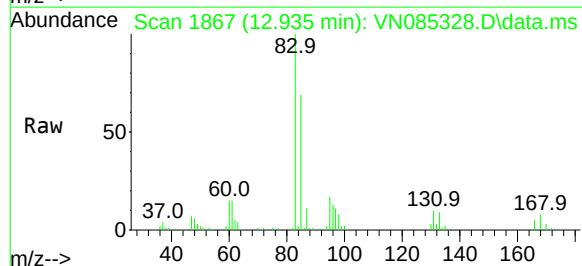
Tgt Ion:	83	Resp:	137310
Ion	Ratio	Lower	Upper
83	100		
131	10.4	4.8	14.4
85	64.7	32.6	98.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#76

1,2,3-Trichloropropane

Concen: 49.397 ug/l m

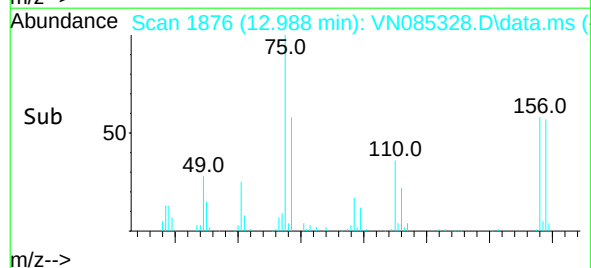
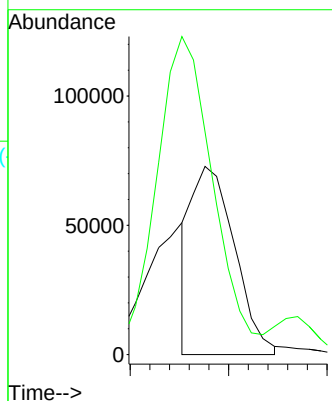
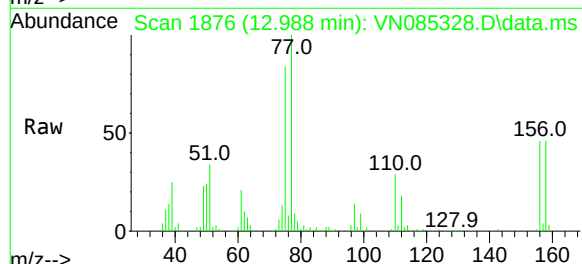
RT: 12.988 min Scan# 1876

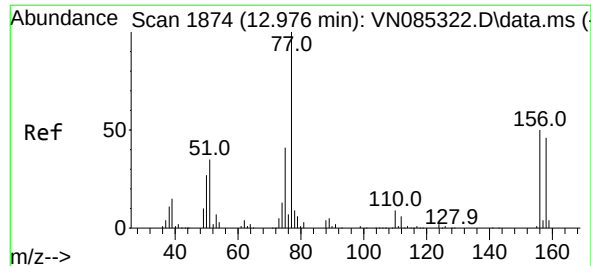
Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion:	75	Resp:	110703
Ion	Ratio	Lower	Upper
75	100		
77	223.2	98.1	294.3





#77

Bromobenzene

Concen: 49.621 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVNV122724

Tgt Ion:156 Resp: 106098

Ion Ratio Lower Upper

156 100

77 232.9 114.0 342.0

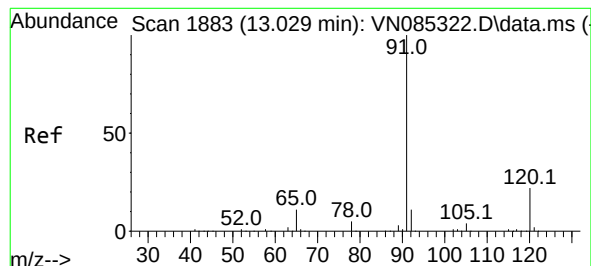
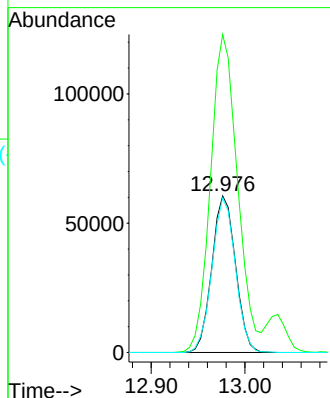
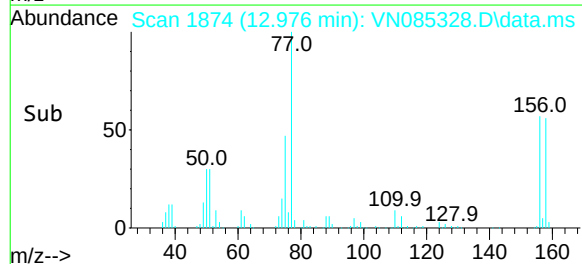
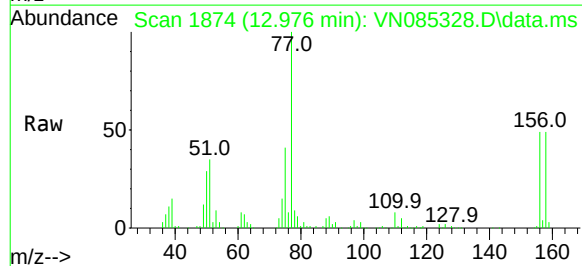
158 97.8 47.6 142.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#78

n-propylbenzene

Concen: 55.937 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.006 min

Lab File: VN085328.D

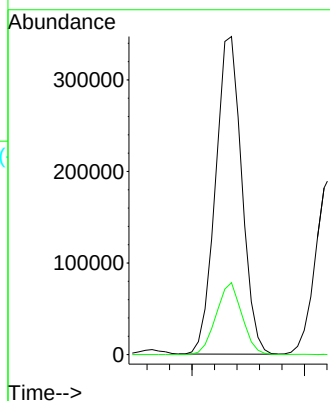
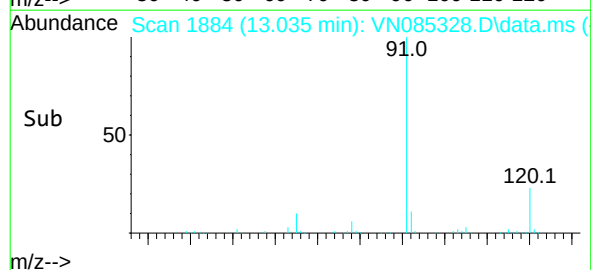
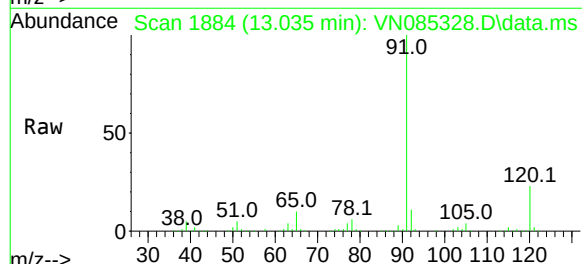
Acq: 27 Dec 2024 15:58

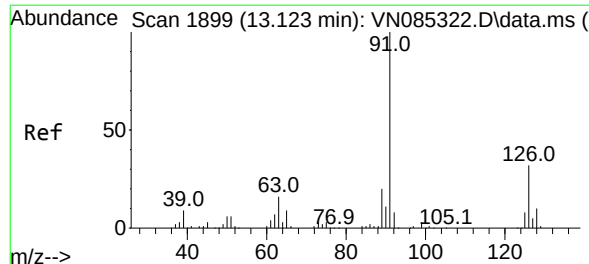
Tgt Ion: 91 Resp: 562715

Ion Ratio Lower Upper

91 100

120 22.2 10.9 32.9





#79

2-Chlorotoluene

Concen: 53.482 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICNVN122724

Tgt Ion: 91 Resp: 338610

Ion Ratio Lower Upper

91 100

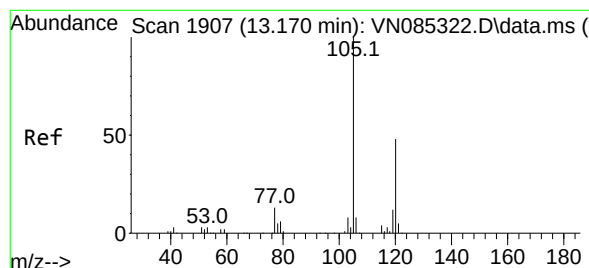
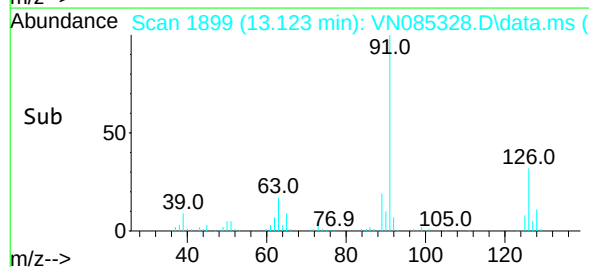
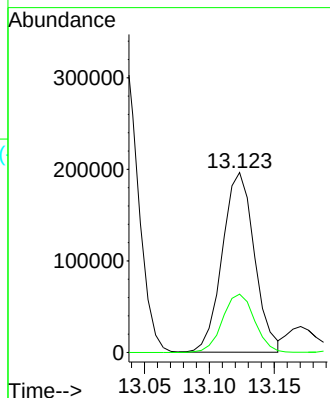
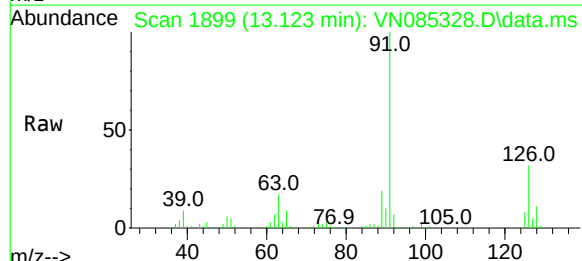
126 32.4 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#80

1,3,5-Trimethylbenzene

Concen: 56.370 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085328.D

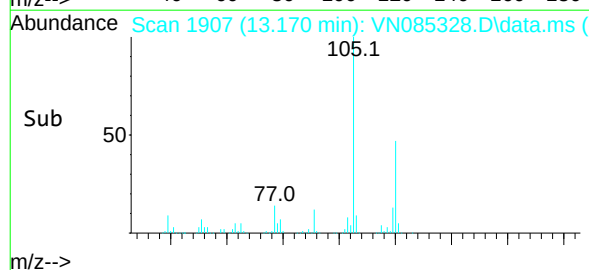
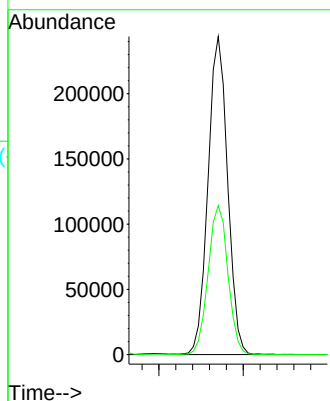
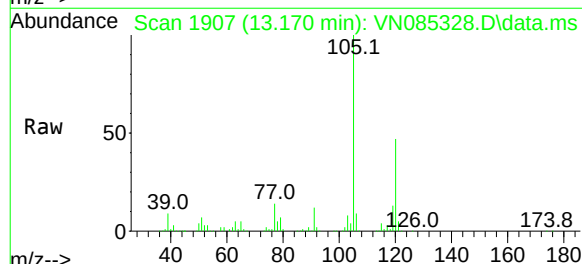
Acq: 27 Dec 2024 15:58

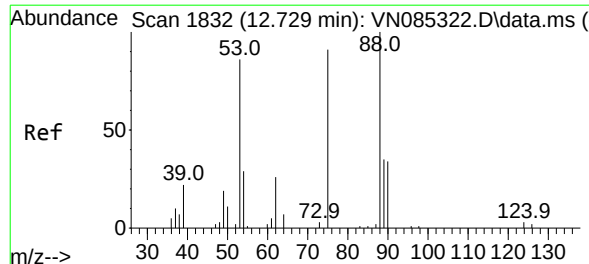
Tgt Ion:105 Resp: 393503

Ion Ratio Lower Upper

105 100

120 47.4 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 55.281 ug/l

RT: 12.735 min Scan# 1832

Delta R.T. 0.006 min

Lab File: VN085328.D

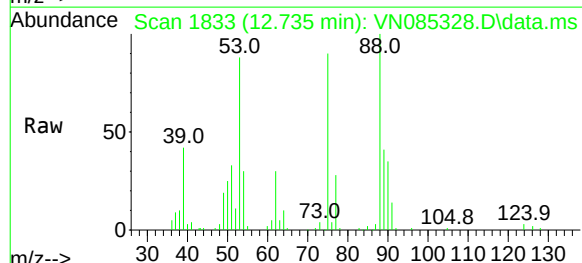
Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

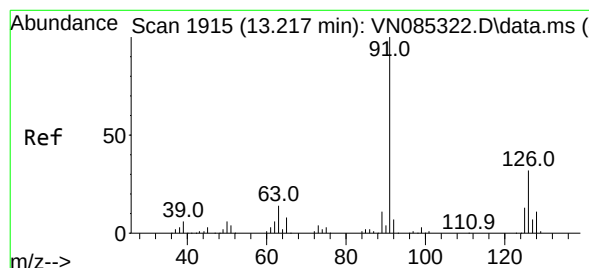
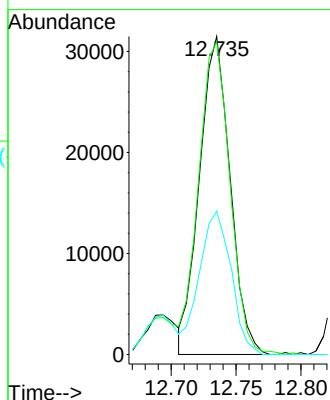
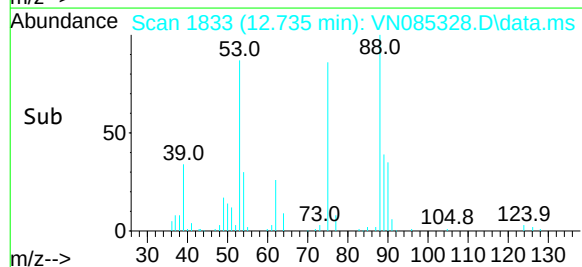
ICVVN122724



Tgt Ion:	75	Resp:	51732
Ion	Ratio	Lower	Upper
75	100		
53	100.7	80.0	120.0
89	47.0	35.8	53.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#82

4-Chlorotoluene

Concen: 53.493 ug/l

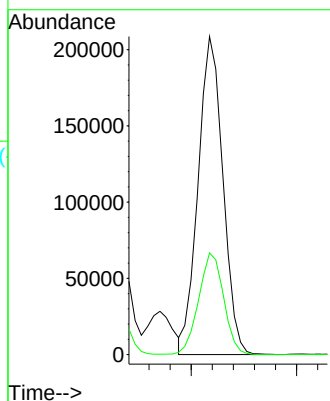
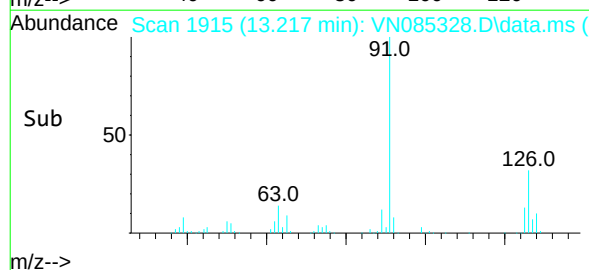
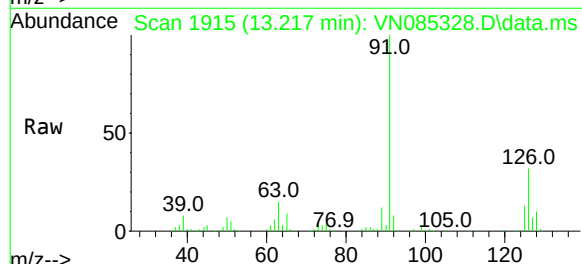
RT: 13.217 min Scan# 1915

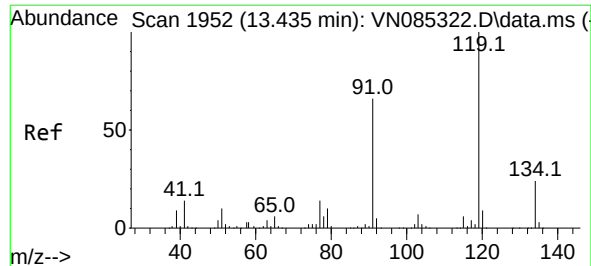
Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion:	91	Resp:	341098
Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.4	49.4





#83

tert-Butylbenzene

Concen: 54.963 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

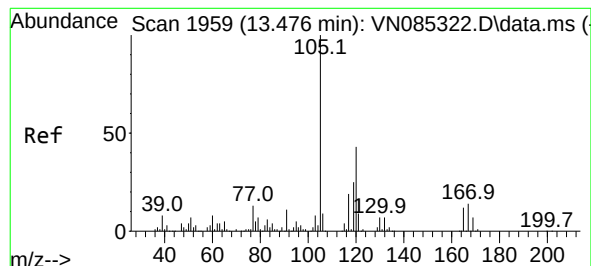
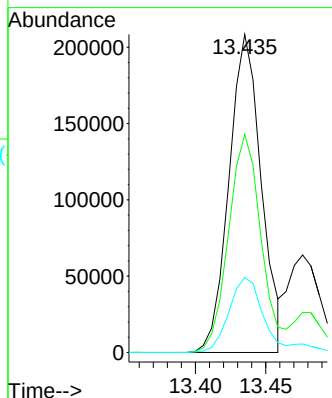
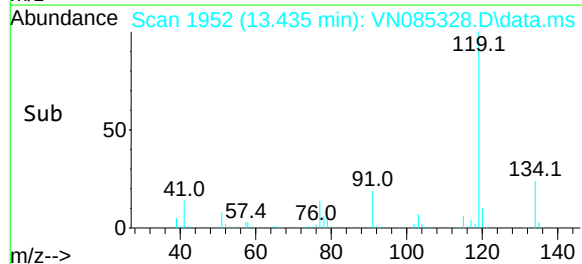
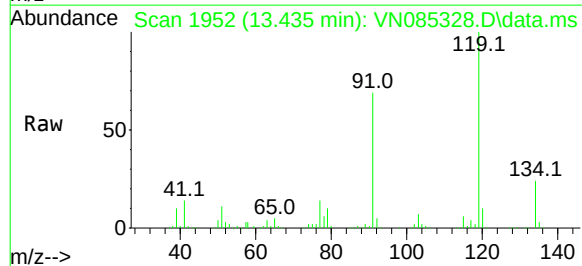
ClientSampleId :

ICVVN122724

Tgt Ion:	119	Resp:	332355
Ion Ratio	Lower	Upper	
119	100		
91	69.7	33.6	100.8
134	26.5	13.3	39.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#84

1,2,4-Trimethylbenzene

Concen: 57.454 ug/l

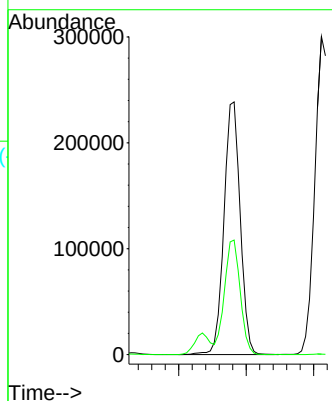
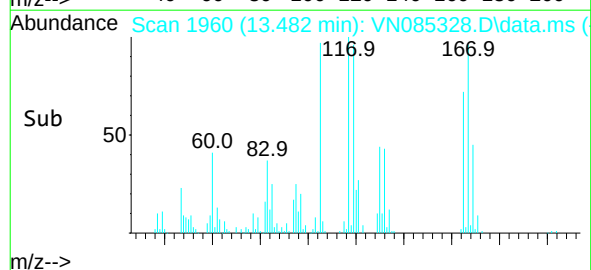
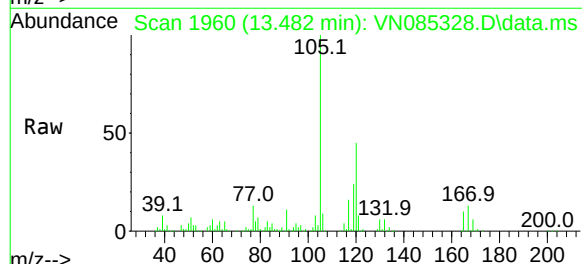
RT: 13.482 min Scan# 1960

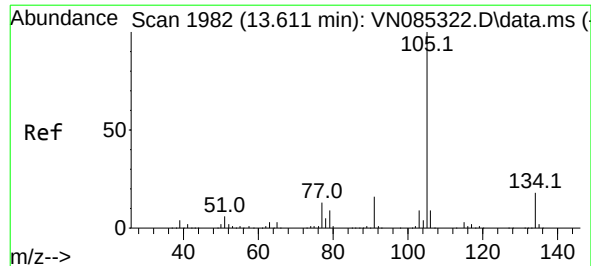
Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion:	105	Resp:	399361
Ion Ratio	Lower	Upper	
105	100		
120	44.0	21.7	65.1





#85

sec-Butylbenzene

Concen: 56.877 ug/l

RT: 13.611 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICV122724

Tgt Ion:105 Resp: 477401

Ion Ratio Lower Upper

105 100

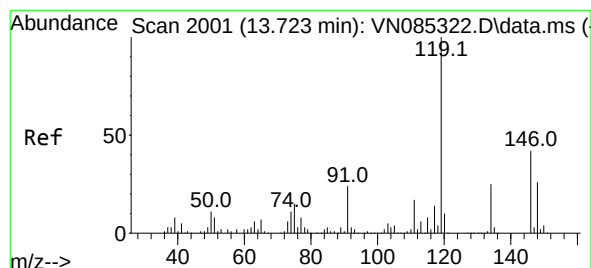
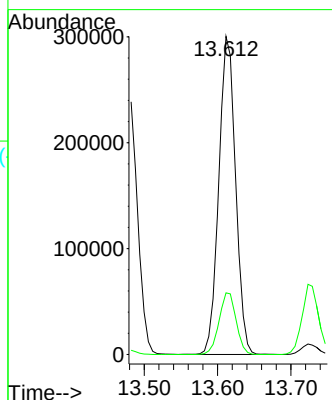
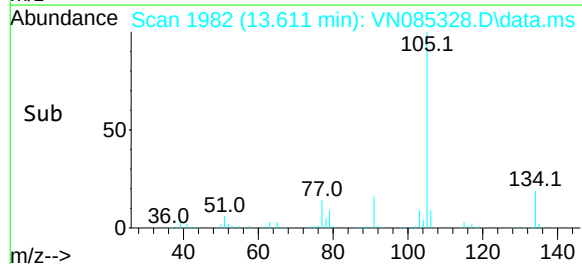
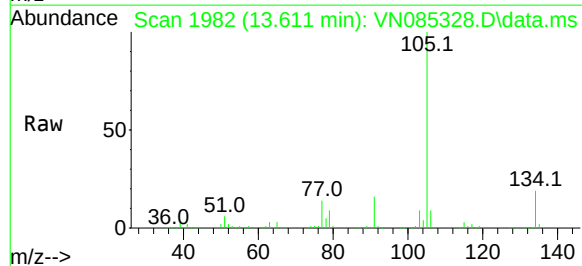
134 19.6 9.4 28.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#86

p-Isopropyltoluene

Concen: 53.045 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

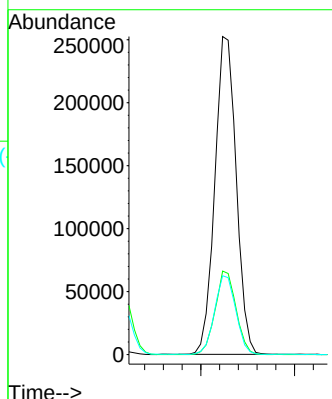
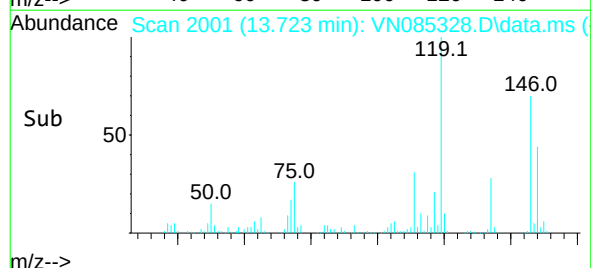
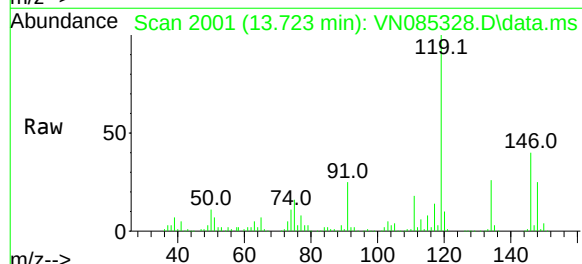
Tgt Ion:119 Resp: 399868

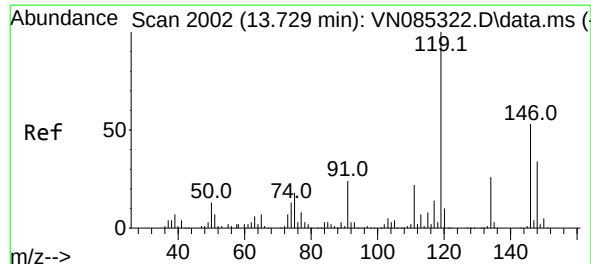
Ion Ratio Lower Upper

119 100

134 25.7 12.5 37.5

91 24.6 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 52.759 ug/l

RT: 13.729 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICVN122724

Tgt Ion:146 Resp: 204501

Ion Ratio Lower Upper

146 100

111 43.1 21.3 63.9

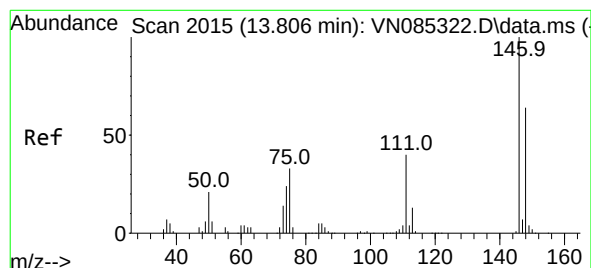
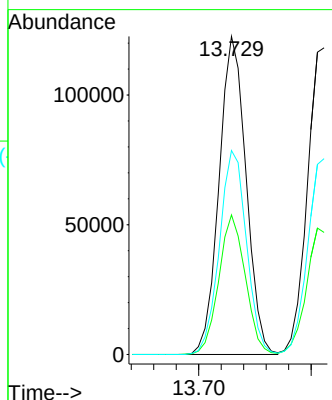
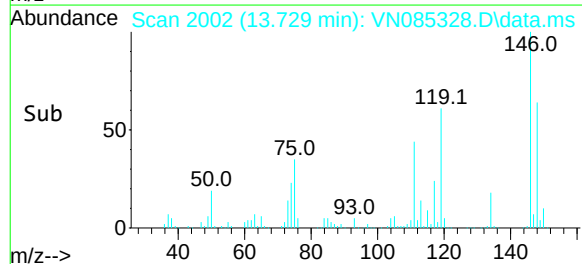
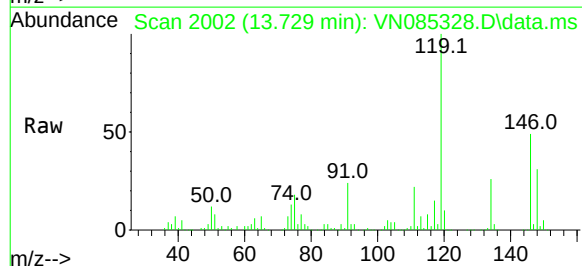
148 64.3 31.5 94.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#88

1,4-Dichlorobenzene

Concen: 50.524 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. 0.006 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

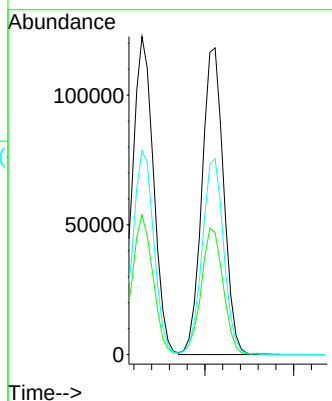
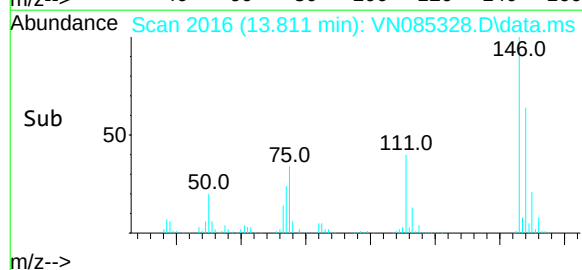
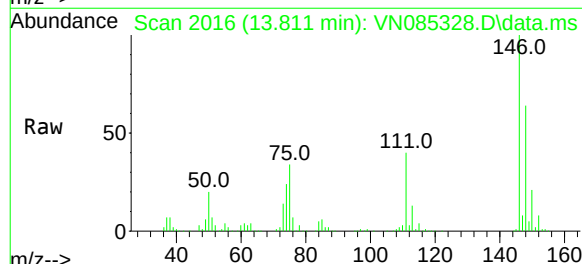
Tgt Ion:146 Resp: 201165

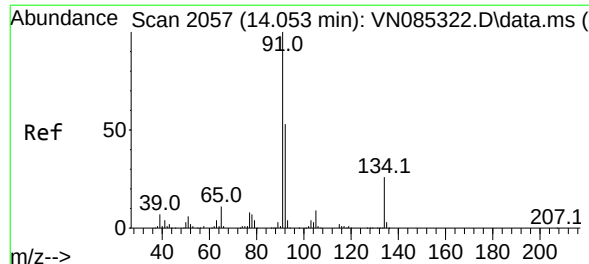
Ion Ratio Lower Upper

146 100

111 41.2 20.8 62.5

148 63.4 31.7 95.1





#89

n-Butylbenzene

Concen: 58.149 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

ICNVN122724

Tgt Ion: 91 Resp: 357404

Ion Ratio Lower Upper

91 100

92 52.3 26.0 78.0

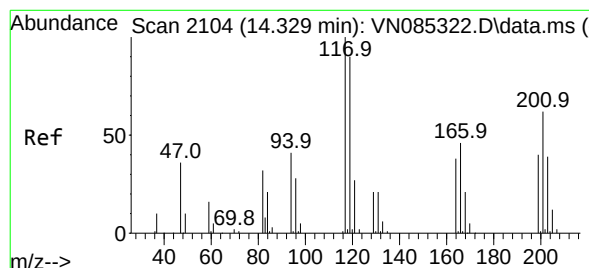
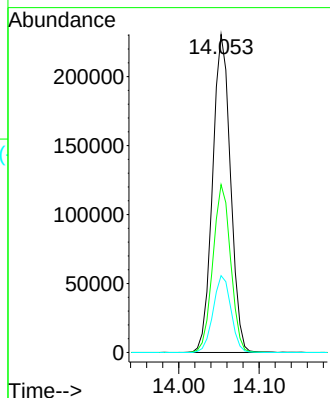
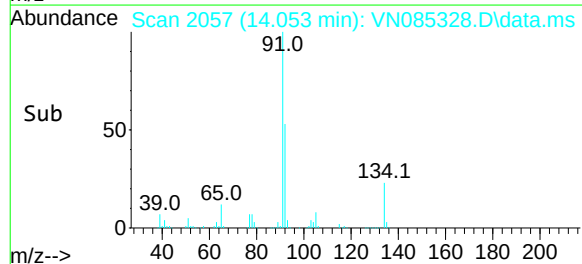
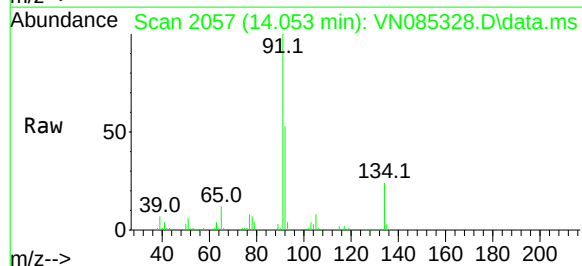
134 24.0 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#90

Hexachloroethane

Concen: 54.238 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN085328.D

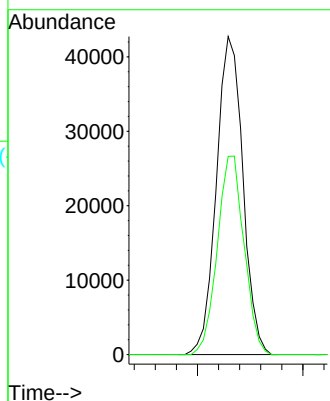
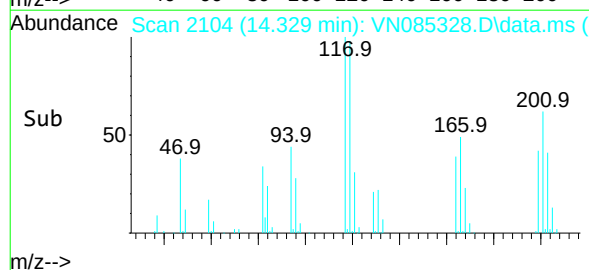
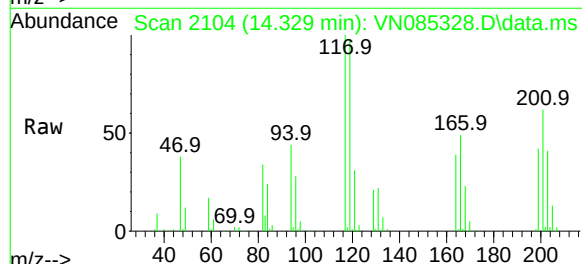
Acq: 27 Dec 2024 15:58

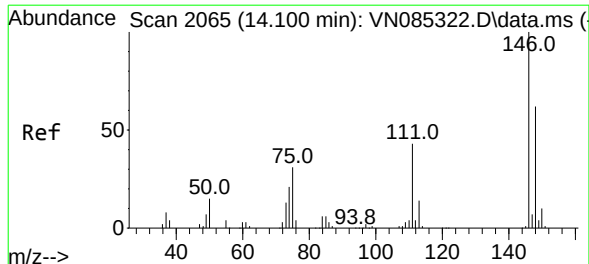
Tgt Ion:117 Resp: 74623

Ion Ratio Lower Upper

117 100

201 63.0 30.7 92.1





#91

1,2-Dichlorobenzene

Concen: 52.669 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN085328.D

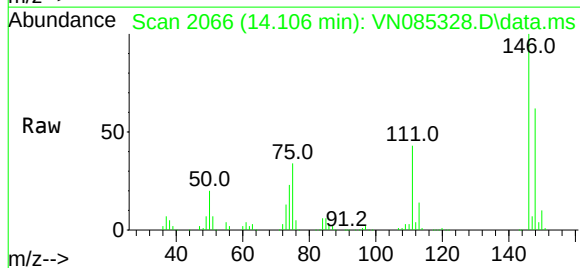
Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

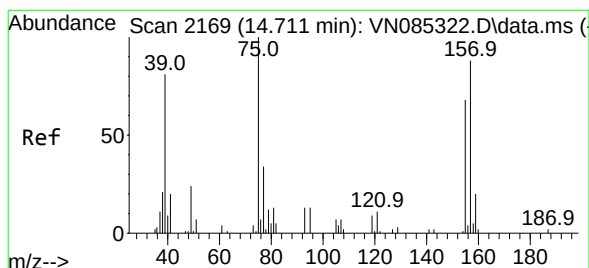
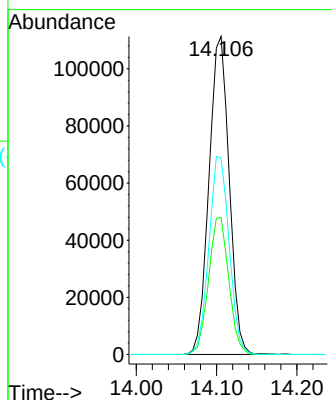
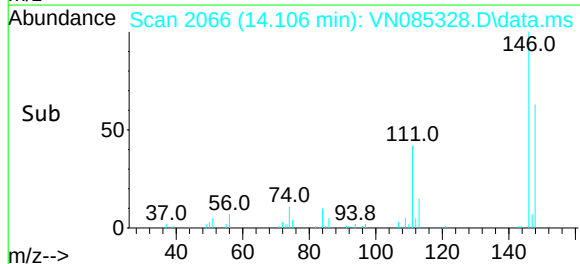
ICVN122724



Tgt Ion:	146	Resp:	194477
Ion Ratio	Lower	Upper	
146	100		
111	43.2	21.8	65.3
148	62.6	31.4	94.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#92

1,2-Dibromo-3-Chloropropane

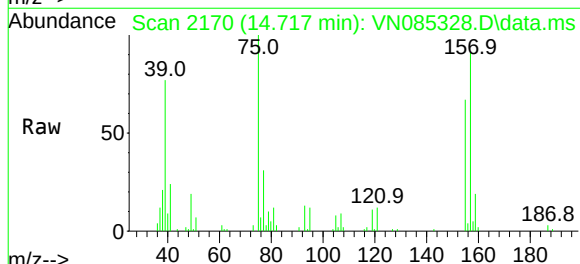
Concen: 56.494 ug/l

RT: 14.717 min Scan# 2170

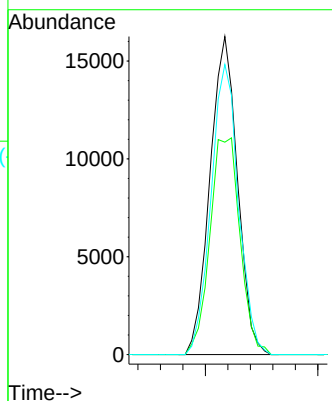
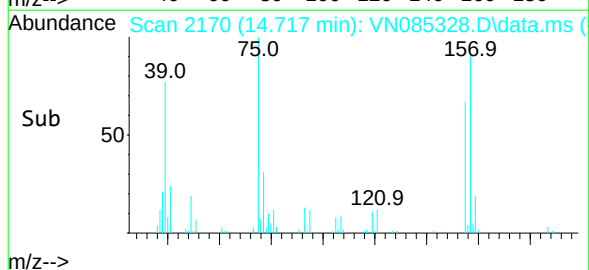
Delta R.T. 0.006 min

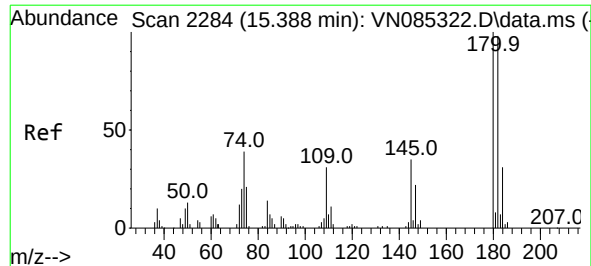
Lab File: VN085328.D

Acq: 27 Dec 2024 15:58



Tgt Ion:	75	Resp:	27636
Ion Ratio	Lower	Upper	
75	100		
155	74.5	35.6	106.9
157	91.0	47.0	141.0





#93

1,2,4-Trichlorobenzene

Concen: 54.113 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085328.D

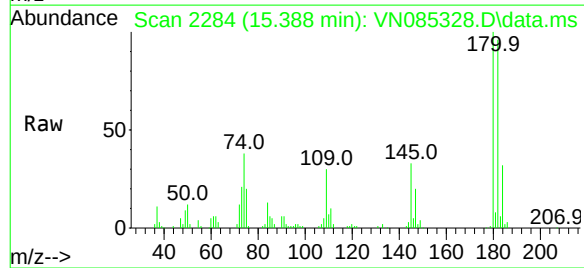
Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

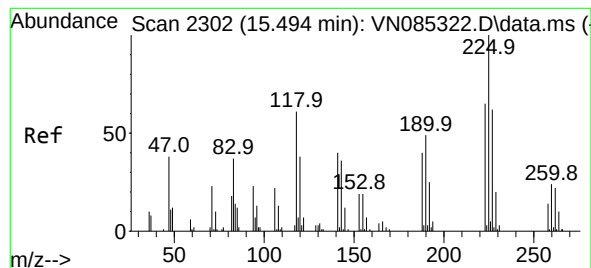
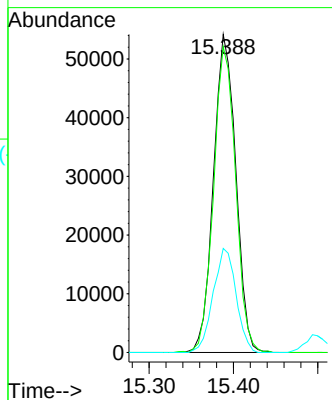
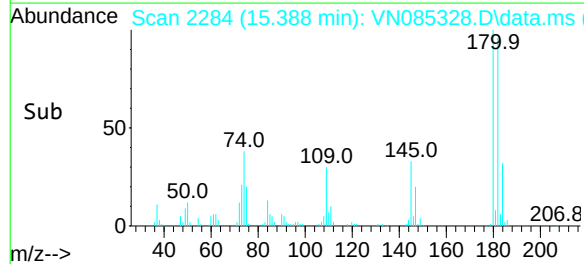
ICVN122724



Tgt Ion:	180	Resp:	99722
Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.2	141.6
145	33.6	16.6	49.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#94

Hexachlorobutadiene

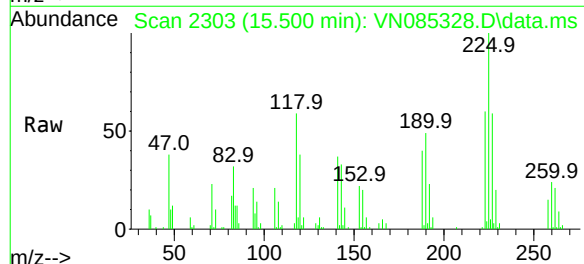
Concen: 50.146 ug/l

RT: 15.500 min Scan# 2303

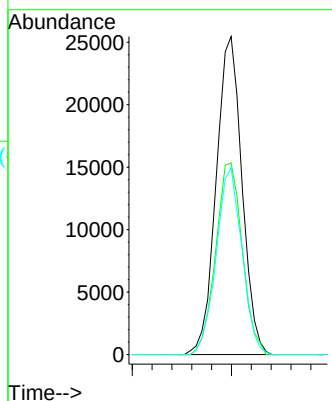
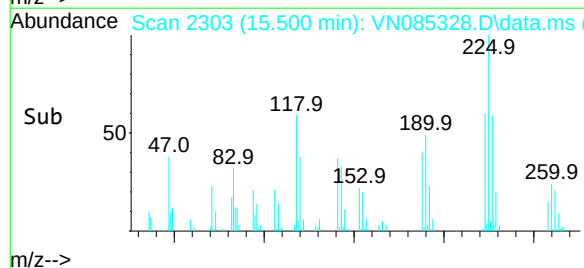
Delta R.T. 0.006 min

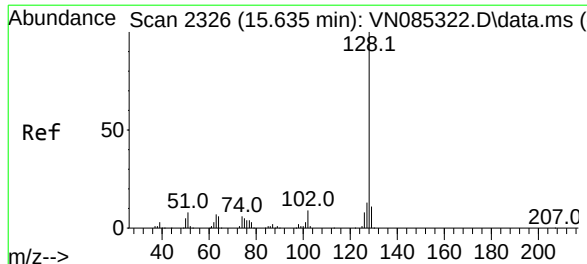
Lab File: VN085328.D

Acq: 27 Dec 2024 15:58



Tgt Ion:	225	Resp:	45915
Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.6	94.7
227	58.8	30.3	91.0





#95

Naphthalene

Concen: 51.123 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Instrument :

MSVOA_N

ClientSampleId :

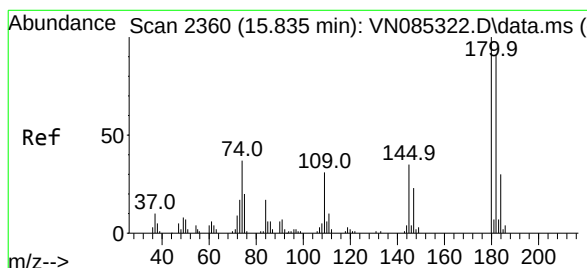
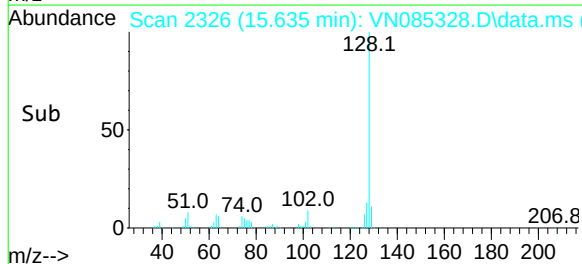
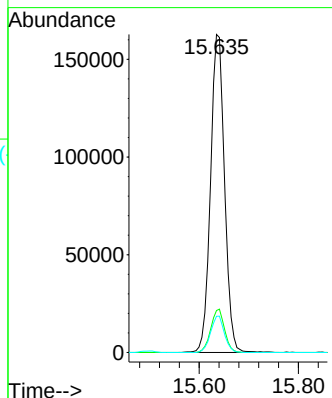
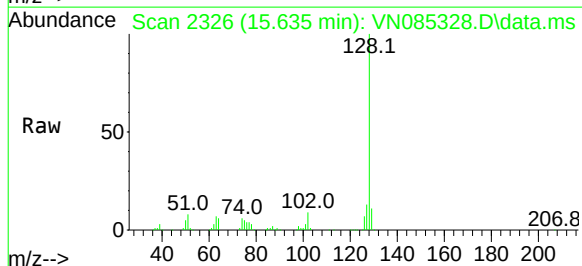
ICNVN122724

Tgt Ion:	128	Resp:	319467
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.6	16.0
129	11.3	8.5	12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#96

1,2,3-Trichlorobenzene

Concen: 51.589 ug/l

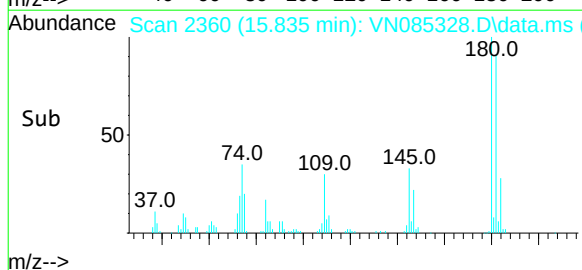
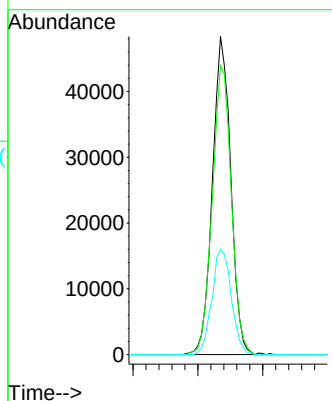
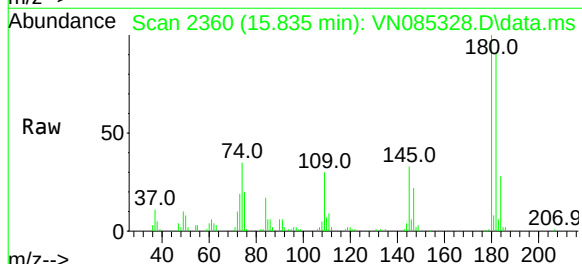
RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085328.D

Acq: 27 Dec 2024 15:58

Tgt Ion:	180	Resp:	94990
Ion Ratio	Lower	Upper	
180	100		
182	94.3	46.8	140.4
145	35.0	17.2	51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085328.D
 Acq On : 27 Dec 2024 15:58
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN122724

Quant Time: Dec 28 01:40:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 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	106	0.00
2 T	Dichlorodifluoromethane	0.676	0.706	-4.4	107	0.00
3 P	Chloromethane	0.760	0.702	7.6	108	0.00
4 C	Vinyl Chloride	0.804	0.814	-1.2#	113	0.00
5 T	Bromomethane	0.526	0.508	3.4	111	-0.04
6 T	Chloroethane	0.510	0.517	-1.4	113	-0.02
7 T	Trichlorofluoromethane	1.057	1.065	-0.8	110	-0.01
8 T	Diethyl Ether	0.350	0.386	-10.3	114	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.601	0.614	-2.2	112	0.00
10 T	Methyl Iodide	0.696	0.724	-4.0	107	-0.01
11 T	Tert butyl alcohol	0.089	0.101	-13.5	124	0.01
12 CM	1,1-Dichloroethene	0.556	0.567	-2.0#	111	-0.01
13 T	Acrolein	0.139	0.119	14.4	97	0.00
14 T	Allyl chloride	0.889	0.911	-2.5	112	0.00
15 T	Acrylonitrile	0.281	0.305	-8.5	117	0.00
16 T	Acetone	0.235	0.262	-11.5	124	0.00
17 T	Carbon Disulfide	1.690	1.621	4.1	111	0.00
18 T	Methyl Acetate	0.718	0.774	-7.8	117	0.00
19 T	Methyl tert-butyl Ether	1.806	1.963	-8.7	111	0.00
20 T	Methylene Chloride	0.631	0.648	-2.7	112	0.00
21 T	trans-1,2-Dichloroethene	0.580	0.583	-0.5	109	0.00
22 T	Diisopropyl ether	1.916	2.080	-8.6	113	0.00
23 T	Vinyl Acetate	1.386	1.543	-11.3	114	0.00
24 P	1,1-Dichloroethane	1.154	1.191	-3.2	112	0.00
25 T	2-Butanone	0.364	0.412	-13.2	119	0.00
26 T	2,2-Dichloropropane	1.011	1.078	-6.6	110	0.00
27 T	cis-1,2-Dichloroethene	0.681	0.720	-5.7	110	0.00
28 T	Bromochloromethane	0.536	0.548	-2.2	109	0.00
29 T	Tetrahydrofuran	0.234	0.266	-13.7	118	0.00
30 C	Chloroform	1.181	1.202	-1.8#	112	0.00
31 T	Cyclohexane	1.054	1.011	4.1	109	0.00
32 T	1,1,1-Trichloroethane	1.055	1.062	-0.7	110	0.00
33 S	1,2-Dichloroethane-d4	0.713	0.721	-1.1	106	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35 S	Dibromofluoromethane	0.312	0.314	-0.6	104	0.00
36 T	1,1-Dichloropropene	0.457	0.479	-4.8	109	0.00
37 T	Ethyl Acetate	0.454	0.469	-3.3	118	0.00
38 T	Carbon Tetrachloride	0.498	0.524	-5.2	110	0.00
39 T	Methylcyclohexane	0.474	0.535	-12.9	112	0.00
40 TM	Benzene	1.381	1.451	-5.1	111	0.00
41 T	Methacrylonitrile	0.232	0.264	-13.8	117	0.00
42 TM	1,2-Dichloroethane	0.495	0.511	-3.2	113	0.00
43 T	Isopropyl Acetate	0.747	0.851	-13.9	120	0.00
44 TM	Trichloroethene	0.327	0.333	-1.8	112	0.00
45 C	1,2-Dichloropropane	0.351	0.375	-6.8#	116	0.00
46 T	Dibromomethane	0.244	0.261	-7.0	114	0.00
47 T	Bromodichloromethane	0.507	0.534	-5.3	111	0.00
48 T	Methyl methacrylate	0.324	0.380	-17.3	116	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085328.D
 Acq On : 27 Dec 2024 15:58
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN122724

Quant Time: Dec 28 01:40:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 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	0.005	0.006	-20.0	114	0.00
50 S	Toluene-d8	1.145	1.187	-3.7	108	0.00
51 T	4-Methyl-2-Pentanone	0.420	0.488	-16.2	118	0.00
52 CM	Toluene	0.822	0.903	-9.9#	112	0.00
53 T	t-1,3-Dichloropropene	0.498	0.563	-13.1	112	0.00
54 T	cis-1,3-Dichloropropene	0.539	0.593	-10.0	112	0.00
55 T	1,1,2-Trichloroethane	0.310	0.331	-6.8	114	0.00
56 T	Ethyl methacrylate	0.452	0.558	-23.5	117	0.00
57 T	1,3-Dichloropropane	0.545	0.589	-8.1	112	0.00
58 T	2-Chloroethyl Vinyl ether	0.219	0.246	-12.3	107	0.00
59 T	2-Hexanone	0.291	0.355	-22.0	121	0.00
60 T	Dibromochloromethane	0.350	0.398	-13.7	113	0.00
61 T	1,2-Dibromoethane	0.307	0.334	-8.8	112	0.00
62 S	4-Bromofluorobenzene	0.380	0.415	-9.2	109	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
64 T	Tetrachloroethene	0.317	0.330	-4.1	112	0.00
65 PM	Chlorobenzene	1.080	1.124	-4.1	114	0.00
66 T	1,1,1,2-Tetrachloroethane	0.363	0.384	-5.8	112	0.00
67 C	Ethyl Benzene	1.797	2.001	-11.4#	113	0.00
68 T	m/p-Xylenes	0.658	0.755	-14.7	113	0.00
69 T	o-Xylene	0.636	0.723	-13.7	112	0.00
70 T	Styrene	1.031	1.223	-18.6	113	0.00
71 P	Bromoform	0.251	0.282	-12.4	114	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
73 T	Isopropylbenzene	3.596	3.953	-9.9	112	0.00
74 T	N-amyl acetate	1.539	1.765	-14.7	115	0.00
75 P	1,1,2,2-Tetrachloroethane	1.145	1.144	0.1	114	0.00
76 T	1,2,3-Trichloropropane	0.934	0.922	1.3	118	0.00
77 T	Bromobenzene	0.891	0.884	0.8	112	0.00
78 T	n-propylbenzene	4.191	4.689	-11.9	113	0.00
79 T	2-Chlorotoluene	2.638	2.821	-6.9	113	0.00
80 T	1,3,5-Trimethylbenzene	2.908	3.279	-12.8	113	0.00
81 T	trans-1,4-Dichloro-2-butene	0.390	0.431	-10.5	113	0.00
82 T	4-Chlorotoluene	2.657	2.842	-7.0	114	0.00
83 T	tert-Butylbenzene	2.519	2.769	-9.9	113	0.00
84 T	1,2,4-Trimethylbenzene	2.896	3.328	-14.9	113	0.00
85 T	sec-Butylbenzene	3.497	3.978	-13.8	113	0.00
86 T	p-Isopropyltoluene	2.816	3.332	-18.3	114	0.00
87 T	1,3-Dichlorobenzene	1.615	1.704	-5.5	114	0.00
88 T	1,4-Dichlorobenzene	1.659	1.676	-1.0	113	0.00
89 T	n-Butylbenzene	2.561	2.978	-16.3	116	0.00
90 T	Hexachloroethane	0.573	0.622	-8.6	110	0.00
91 T	1,2-Dichlorobenzene	1.538	1.620	-5.3	113	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.204	0.230	-12.7	120	0.00
93 T	1,2,4-Trichlorobenzene	0.768	0.831	-8.2	115	0.00
94 T	Hexachlorobutadiene	0.381	0.383	-0.5	119	0.00
95 T	Naphthalene	2.603	2.662	-2.3	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085328.D
Acq On : 27 Dec 2024 15:58
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122724

Quant Time: Dec 28 01:40:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 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	0.767	0.791	-3.1	112	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085328.D
 Acq On : 27 Dec 2024 15:58
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN122724

Quant Time: Dec 28 01:40:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
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 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	106	0.00
2 T	Dichlorodifluoromethane	50.000	52.192	-4.4	107	0.00
3 P	Chloromethane	50.000	46.193	7.6	108	0.00
4 C	Vinyl Chloride	50.000	50.656	-1.3#	113	0.00
5 T	Bromomethane	50.000	48.321	3.4	111	-0.04
6 T	Chloroethane	50.000	50.664	-1.3	113	-0.02
7 T	Trichlorofluoromethane	50.000	50.396	-0.8	110	-0.01
8 T	Diethyl Ether	50.000	55.098	-10.2	114	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.030	-2.1	112	0.00
10 T	Methyl Iodide	50.000	52.018	-4.0	107	-0.01
11 T	Tert butyl alcohol	250.000	282.346	-12.9	124	0.01
12 CM	1,1-Dichloroethene	50.000	51.049	-2.1#	111	-0.01
13 T	Acrolein	250.000	214.370	14.3	97	0.00
14 T	Allyl chloride	50.000	51.210	-2.4	112	0.00
15 T	Acrylonitrile	250.000	271.490	-8.6	117	0.00
16 T	Acetone	250.000	279.767	-11.9	124	0.00
17 T	Carbon Disulfide	50.000	47.961	4.1	111	0.00
18 T	Methyl Acetate	50.000	53.913	-7.8	117	0.00
19 T	Methyl tert-butyl Ether	50.000	54.338	-8.7	111	0.00
20 T	Methylene Chloride	50.000	51.370	-2.7	112	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.262	-0.5	109	0.00
22 T	Diisopropyl ether	50.000	54.277	-8.6	113	0.00
23 T	Vinyl Acetate	250.000	278.352	-11.3	114	0.00
24 P	1,1-Dichloroethane	50.000	51.577	-3.2	112	0.00
25 T	2-Butanone	250.000	283.341	-13.3	119	0.00
26 T	2,2-Dichloropropane	50.000	53.283	-6.6	110	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.846	-5.7	110	0.00
28 T	Bromochloromethane	50.000	51.112	-2.2	109	0.00
29 T	Tetrahydrofuran	250.000	283.909	-13.6	118	0.00
30 C	Chloroform	50.000	50.890	-1.8#	112	0.00
31 T	Cyclohexane	50.000	47.956	4.1	109	0.00
32 T	1,1,1-Trichloroethane	50.000	50.333	-0.7	110	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.547	-1.1	106	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35 S	Dibromofluoromethane	50.000	50.398	-0.8	104	0.00
36 T	1,1-Dichloropropene	50.000	52.447	-4.9	109	0.00
37 T	Ethyl Acetate	50.000	51.666	-3.3	118	0.00
38 T	Carbon Tetrachloride	50.000	52.672	-5.3	110	0.00
39 T	Methylcyclohexane	50.000	56.501	-13.0	112	0.00
40 TM	Benzene	50.000	52.550	-5.1	111	0.00
41 T	Methacrylonitrile	50.000	56.677	-13.4	117	0.00
42 TM	1,2-Dichloroethane	50.000	51.568	-3.1	113	0.00
43 T	Isopropyl Acetate	50.000	56.953	-13.9	120	0.00
44 TM	Trichloroethene	50.000	50.930	-1.9	112	0.00
45 C	1,2-Dichloropropane	50.000	53.441	-6.9#	116	0.00
46 T	Dibromomethane	50.000	53.491	-7.0	114	0.00
47 T	Bromodichloromethane	50.000	52.728	-5.5	111	0.00
48 T	Methyl methacrylate	50.000	58.590	-17.2	116	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085328.D
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 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 ICSVN122724

Quant Time: Dec 28 01:40:29 2024
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 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 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	1197.029	-19.7	114	0.00
50 S	Toluene-d8	50.000	51.871	-3.7	108	0.00
51 T	4-Methyl-2-Pentanone	250.000	290.641	-16.3	118	0.00
52 CM	Toluene	50.000	54.941	-9.9#	112	0.00
53 T	t-1,3-Dichloropropene	50.000	56.497	-13.0	112	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.040	-10.1	112	0.00
55 T	1,1,2-Trichloroethane	50.000	53.314	-6.6	114	0.00
56 T	Ethyl methacrylate	50.000	61.733	-23.5	117	0.00
57 T	1,3-Dichloropropane	50.000	54.020	-8.0	112	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	280.905	-12.4	107	0.00
59 T	2-Hexanone	250.000	304.633	-21.9	121	0.00
60 T	Dibromochloromethane	50.000	56.856	-13.7	113	0.00
61 T	1,2-Dibromoethane	50.000	54.445	-8.9	112	0.00
62 S	4-Bromofluorobenzene	50.000	54.619	-9.2	109	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	106	0.00
64 T	Tetrachloroethene	50.000	52.056	-4.1	112	0.00
65 PM	Chlorobenzene	50.000	52.014	-4.0	114	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.882	-5.8	112	0.00
67 C	Ethyl Benzene	50.000	55.669	-11.3#	113	0.00
68 T	m/p-Xylenes	100.000	114.768	-14.8	113	0.00
69 T	o-Xylene	50.000	56.809	-13.6	112	0.00
70 T	Styrene	50.000	59.331	-18.7	113	0.00
71 P	Bromoform	50.000	56.226	-12.5	114	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	106	0.00
73 T	Isopropylbenzene	50.000	54.966	-9.9	112	0.00
74 T	N-amyl acetate	50.000	57.337	-14.7	115	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.956	0.1	114	0.00
76 T	1,2,3-Trichloropropane	50.000	49.397	1.2	118	0.00
77 T	Bromobenzene	50.000	49.621	0.8	112	0.00
78 T	n-propylbenzene	50.000	55.937	-11.9	113	0.00
79 T	2-Chlorotoluene	50.000	53.482	-7.0	113	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.370	-12.7	113	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	55.281	-10.6	113	0.00
82 T	4-Chlorotoluene	50.000	53.493	-7.0	114	0.00
83 T	tert-Butylbenzene	50.000	54.963	-9.9	113	0.00
84 T	1,2,4-Trimethylbenzene	50.000	57.454	-14.9	113	0.00
85 T	sec-Butylbenzene	50.000	56.877	-13.8	113	0.00
86 T	p-Isopropyltoluene	50.000	53.045	-6.1	114	0.00
87 T	1,3-Dichlorobenzene	50.000	52.759	-5.5	114	0.00
88 T	1,4-Dichlorobenzene	50.000	50.524	-1.0	113	0.00
89 T	n-Butylbenzene	50.000	58.149	-16.3	116	0.00
90 T	Hexachloroethane	50.000	54.238	-8.5	110	0.00
91 T	1,2-Dichlorobenzene	50.000	52.669	-5.3	113	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	56.494	-13.0	120	0.00
93 T	1,2,4-Trichlorobenzene	50.000	54.113	-8.2	115	0.00
94 T	Hexachlorobutadiene	50.000	50.146	-0.3	119	0.00
95 T	Naphthalene	50.000	51.123	-2.2	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
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Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.589	-3.2	112	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: WEST04

Lab Code: CHEM Case No.: P5380 SAS No.: P5380 SDG No.: P5380

Instrument ID: MSVOA_N Calibration Date/Time: 12/27/2024 10:50

Lab File ID: VN085322.D Init. Calib. Date(s): 12/27/2024 12/27/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:26 12:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.804	0.758		-5.72	
1,1-Dichloroethene	0.556	0.538		-3.24	
2-Butanone	0.364	0.367		0.82	
Carbon Tetrachloride	0.498	0.502		0.8	
Chloroform	1.181	1.133		-4.06	
Benzene	1.381	1.377		-0.29	
1,2-Dichloroethane	0.495	0.473		-4.44	
Trichloroethene	0.327	0.311		-4.89	
Tetrachloroethene	0.317	0.312		-1.58	
Chlorobenzene	1.080	1.049		-2.87	
1,2-Dichloroethane-d4	0.713	0.717		0.56	
Dibromofluoromethane	0.312	0.317		1.6	
Toluene-d8	1.145	1.161		1.4	
4-Bromofluorobenzene	0.380	0.401		5.53	

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\VN122724\
 Data File : VN085322.D
 Acq On : 27 Dec 2024 10:50
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/30/2024
 Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	155532	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	278404	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	240680	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	113462	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	111594	50.305	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.620%
35) Dibromofluoromethane	8.159	113	88275	50.825	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.660%
50) Toluene-d8	10.559	98	323100	50.695	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.380%
62) 4-Bromofluorobenzene	12.847	95	111548	52.700	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	108746	51.698	ug/l	100
3) Chloromethane	2.359	50	106659	45.115	ug/l	100
4) Vinyl Chloride	2.512	62	117884	47.149	ug/l	100
5) Bromomethane	2.959	94	74886	45.796	ug/l	100
6) Chloroethane	3.124	64	74955	47.272	ug/l	100
7) Trichlorofluoromethane	3.500	101	158878	48.340	ug/l	100
8) Diethyl Ether	3.959	74	55553	51.048	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	89878	48.064	ug/l	100
10) Methyl Iodide	4.594	142	111290	51.423	ug/l	100
11) Tert butyl alcohol	5.512	59	66517	239.459	ug/l	100
12) 1,1-Dichloroethene	4.342	96	83691	48.422	ug/l	100
13) Acrolein	4.177	56	101450	234.253	ug/l	100
14) Allyl chloride	5.018	41	133004	48.082	ug/l	100
15) Acrylonitrile	5.712	53	213836	244.585	ug/l	100
16) Acetone	4.418	43	173280	237.550	ug/l	100
17) Carbon Disulfide	4.712	76	238824	45.421	ug/l	100
18) Methyl Acetate	5.018	43	108199	48.449	ug/l	100
19) Methyl tert-butyl Ether	5.788	73	290643	51.737	ug/l	100
20) Methylene Chloride	5.271	84	95357	48.601	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	87901	48.686	ug/l	100
22) Diisopropyl ether	6.665	45	302742	50.788	ug/l	100
23) Vinyl Acetate	6.594	43	1110592	259.168	ug/l	100
24) 1,1-Dichloroethane	6.565	63	173999	48.458	ug/l	100
25) 2-Butanone	7.477	43	285403	252.198	ug/l	100
26) 2,2-Dichloropropane	7.482	77	160118	50.897	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	107476	50.718	ug/l	100
28) Bromochloromethane	7.806	49	82793	49.616	ug/l #	100
29) Tetrahydrofuran	7.830	42	185555	254.548	ug/l	100
30) Chloroform	7.959	83	176294	47.991	ug/l	100
31) Cyclohexane	8.253	56	152319	46.455	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	158921	48.441	ug/l	100
36) 1,1-Dichloropropene	8.365	75	128454	50.513	ug/l	100
37) Ethyl Acetate	7.553	43	115871	45.842	ug/l	100
38) Carbon Tetrachloride	8.359	117	139705	50.401	ug/l	100
39) Methylcyclohexane	9.594	83	140293	53.172	ug/l	100
40) Benzene	8.600	78	383405	49.867	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085322.D
 Acq On : 27 Dec 2024 10:50
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	65714	50.764	ug/l	100
42) 1,2-Dichloroethane	8.665	62	131673	47.766	ug/l	100
43) Isopropyl Acetate	8.682	43	207309	49.811	ug/l	100
44) Trichloroethene	9.347	130	86607	47.578	ug/l	100
45) 1,2-Dichloropropane	9.612	63	94480	48.407	ug/l	100
46) Dibromomethane	9.706	93	66895	49.281	ug/l	100
47) Bromodichloromethane	9.882	83	140475	49.791	ug/l	100
48) Methyl methacrylate	9.676	41	95506	52.885	ug/l	100
49) 1,4-Dioxane	9.688	88	29967	1099.805	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	604417	258.422	ug/l	100
52) Toluene	10.623	92	235625	51.469	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	147289	53.087	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	154618	51.536	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	85262	49.329	ug/l	100
56) Ethyl methacrylate	10.871	69	139960	55.599	ug/l	100
57) 1,3-Dichloropropane	11.159	76	154391	50.893	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	336991	276.695	ug/l	100
59) 2-Hexanone	11.194	43	428174	263.862	ug/l	100
60) Dibromochloromethane	11.353	129	103179	52.999	ug/l	100
61) 1,2-Dibromoethane	11.465	107	87157	50.969	ug/l	100
64) Tetrachloroethene	11.100	164	75140	49.270	ug/l	100
65) Chlorobenzene	11.888	112	252514	48.550	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	87333	50.030	ug/l	100
67) Ethyl Benzene	11.959	91	451752	52.228	ug/l	100
68) m/p-Xylenes	12.065	106	341420	107.860	ug/l	100
69) o-Xylene	12.394	106	165724	54.121	ug/l	100
70) Styrene	12.406	104	276012	55.616	ug/l	100
71) Bromoform	12.570	173	63268	52.330	ug/l #	100
73) Isopropylbenzene	12.688	105	423362	51.888	ug/l	100
74) N-ethyl acetate	12.488	43	183943	52.669	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	120681	46.441	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	94097m	43.170	ug/l	
77) Bromobenzene	12.976	156	95126	47.058	ug/l	100
78) n-propylbenzene	13.029	91	498392	52.403	ug/l	100
79) 2-Chlorotoluene	13.123	91	299107	49.970	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	347857	52.709	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	45749m	51.950	ug/l	
82) 4-Chlorotoluene	13.217	91	299712	49.717	ug/l	100
83) tert-Butylbenzene	13.435	119	294653	51.541	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	354037	53.875	ug/l	100
85) sec-Butylbenzene	13.611	105	424353	53.476	ug/l	100
86) p-Isopropyltoluene	13.723	119	349527	49.276	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	179301	48.928	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	177873	47.253	ug/l	100
89) n-Butylbenzene	14.053	91	309010	53.178	ug/l	100
90) Hexachloroethane	14.329	117	67607	51.976	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	171657	49.173	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.711	75	22952	49.627	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	86363	49.570	ug/l	100
94) Hexachlorobutadiene	15.494	225	38529	44.509	ug/l	100
95) Naphthalene	15.635	128	286887	48.560	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	84633	48.618	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085322.D
Acq On : 27 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration

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

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

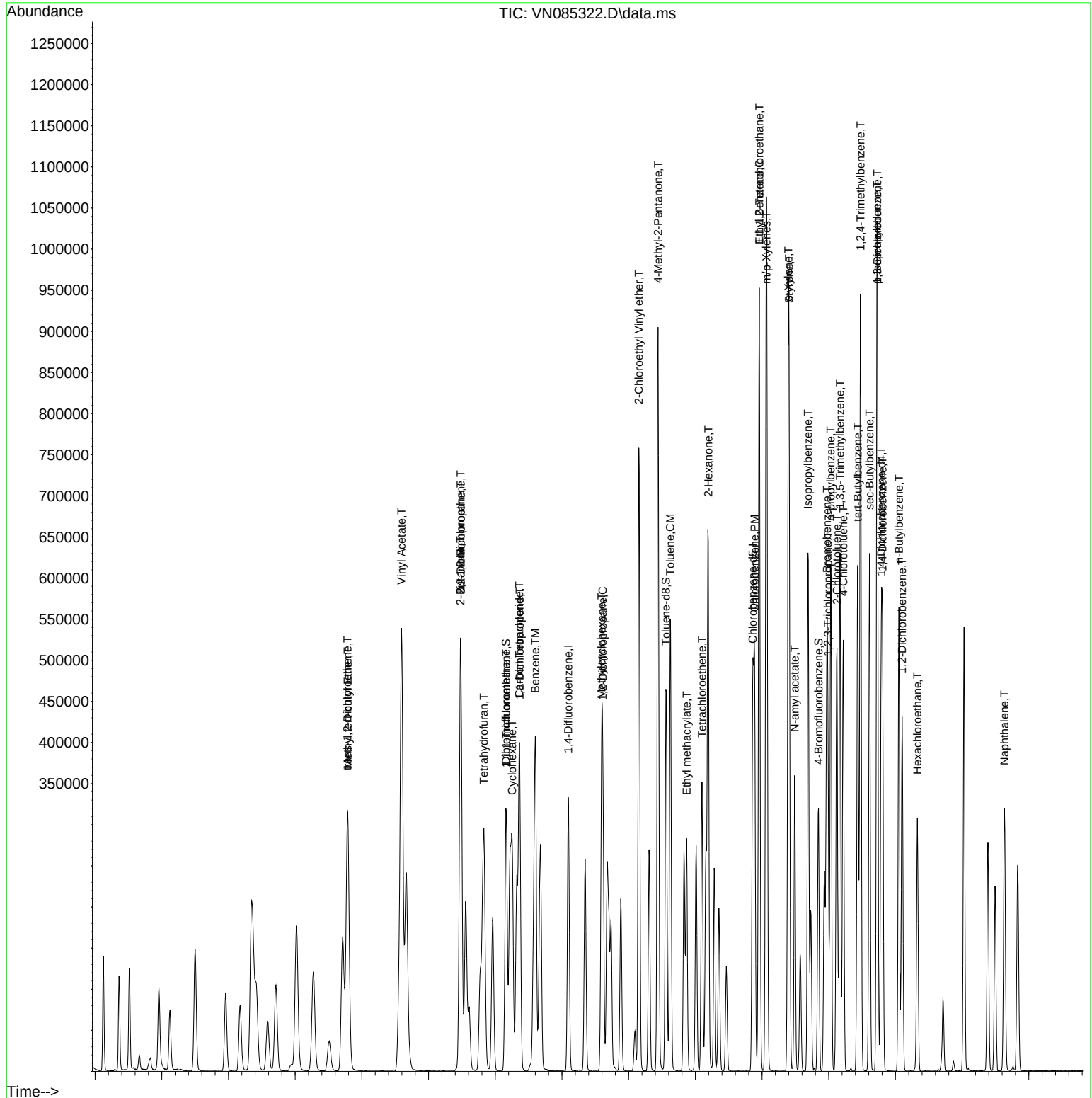
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Data File : VN085322.D
Acq On : 27 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

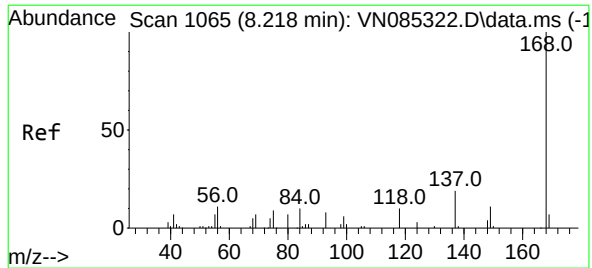
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/30/2024
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Quant Time: Dec 28 01:13:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration





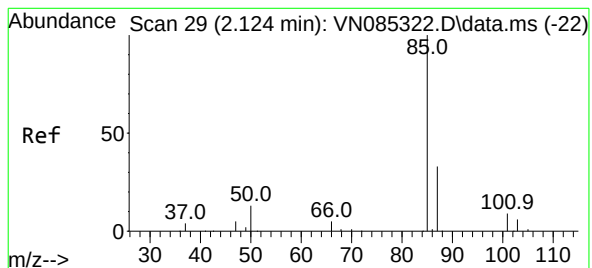
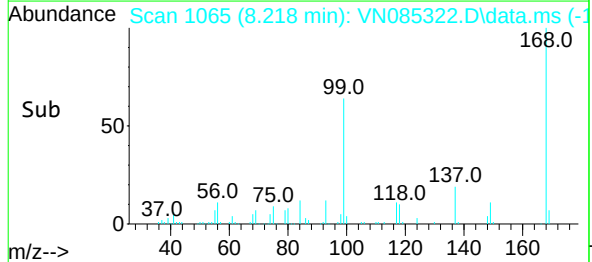
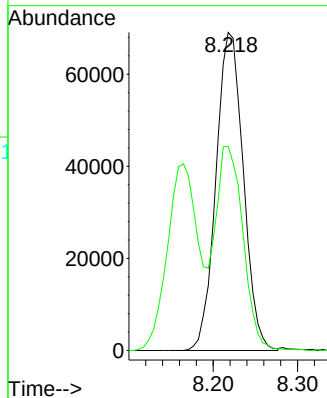
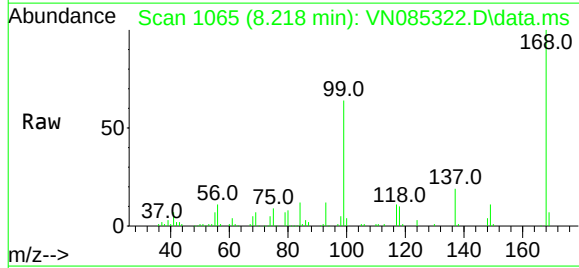
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 155532
Ion Ratio Lower Upper
168 100
99 63.7 51.0 76.4

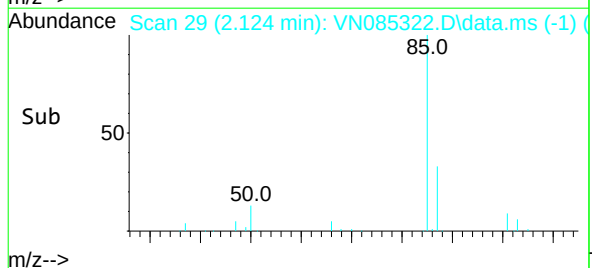
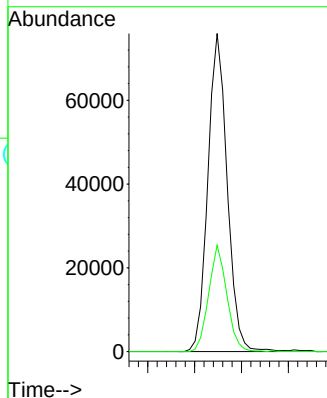
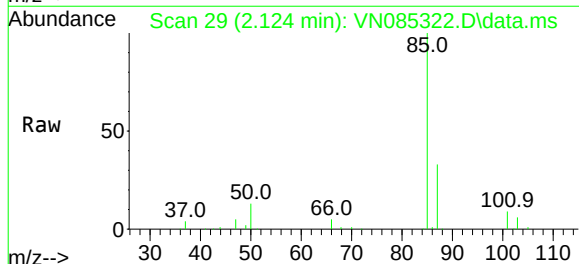
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

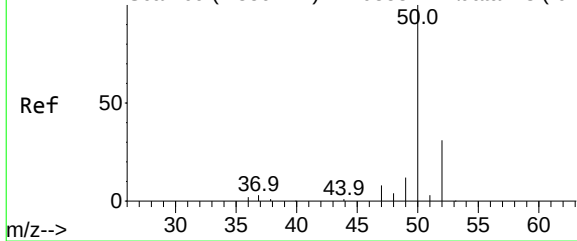


#2
Dichlorodifluoromethane
Concen: 51.698 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 85 Resp: 108746
Ion Ratio Lower Upper
85 100
87 33.5 16.8 50.3



Abundance Scan 69 (2.359 min): VN085322.D\data.ms (-62)



#3

Chloromethane

Concen: 45.115 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 50 Resp: 106659

Ion Ratio Lower Upper

50 100

52 31.4 25.1 37.7

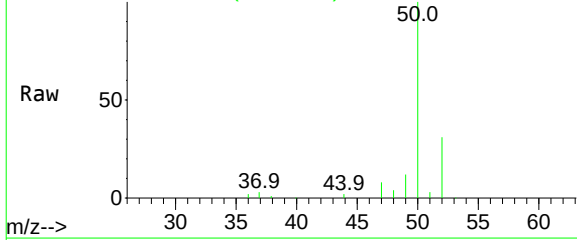
Manual Integrations

APPROVED

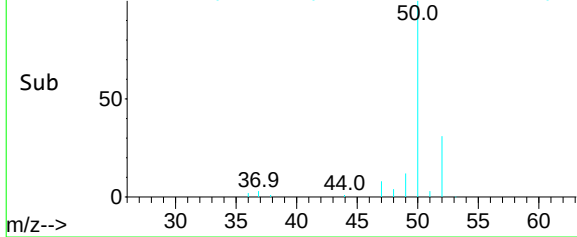
Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024

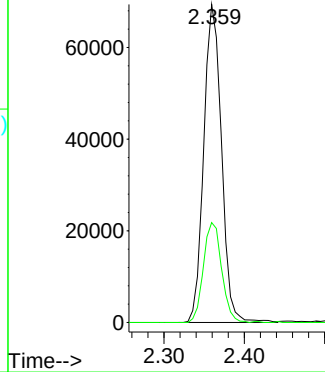
Abundance Scan 69 (2.359 min): VN085322.D\data.ms



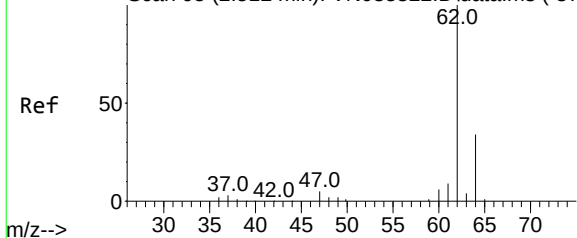
Abundance Scan 69 (2.359 min): VN085322.D\data.ms (-18)



Abundance



Abundance Scan 95 (2.512 min): VN085322.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 47.149 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

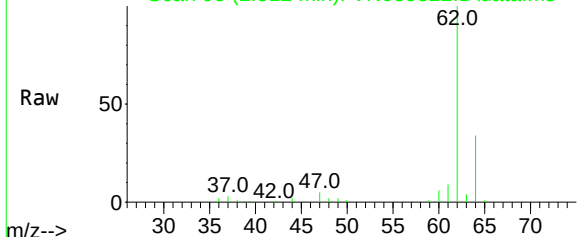
Tgt Ion: 62 Resp: 117884

Ion Ratio Lower Upper

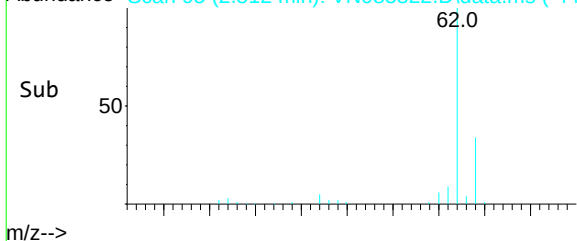
62 100

64 33.8 27.0 40.6

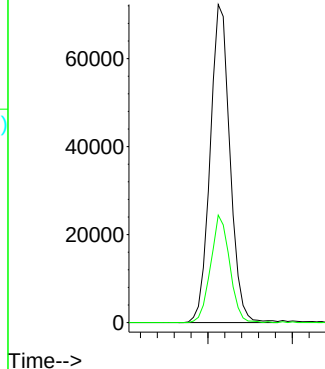
Abundance Scan 95 (2.512 min): VN085322.D\data.ms

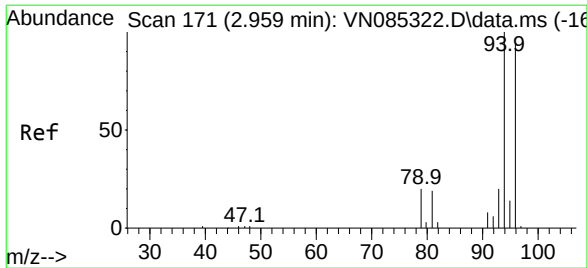


Abundance Scan 95 (2.512 min): VN085322.D\data.ms (-44)



Abundance





#5

Bromomethane

Concen: 45.796 ug/l

RT: 2.959 min Scan# 171

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 94 Resp: 74886

Ion Ratio Lower Upper

94 100

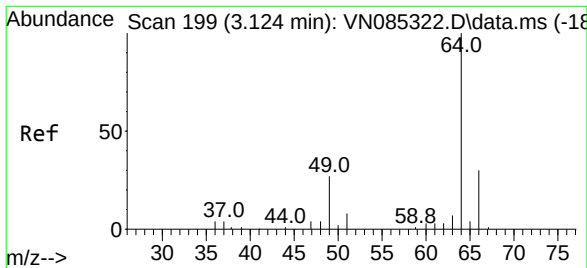
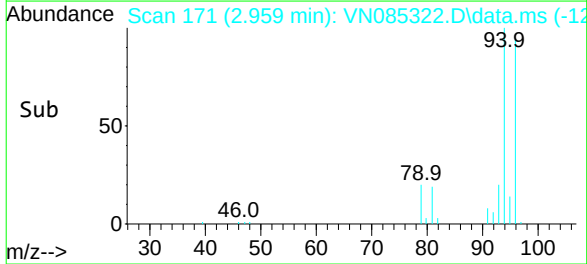
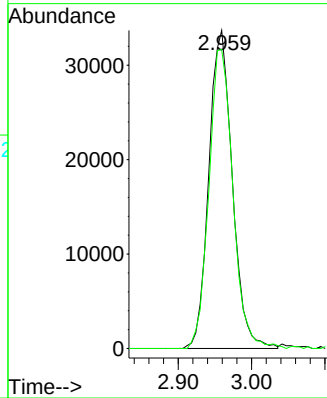
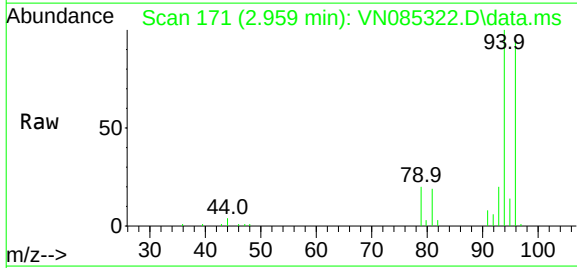
96 94.0 75.2 112.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#6

Chloroethane

Concen: 47.272 ug/l

RT: 3.124 min Scan# 199

Delta R.T. 0.000 min

Lab File: VN085322.D

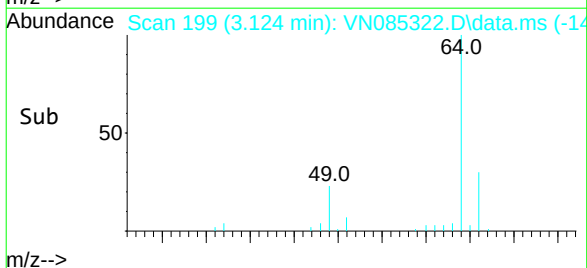
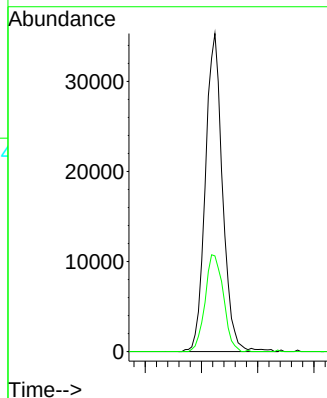
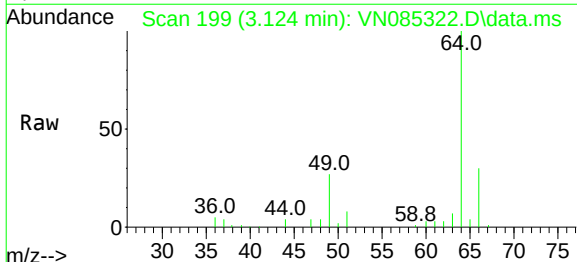
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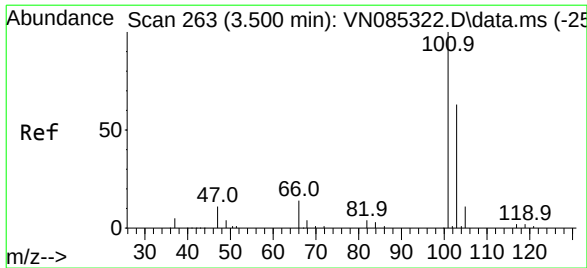
Tgt Ion: 64 Resp: 74955

Ion Ratio Lower Upper

64 100

66 30.1 24.1 36.1





#7

Trichlorofluoromethane

Concen: 48.340 ug/l

RT: 3.500 min Scan# 263

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 158878

Ion Ratio Lower Upper

101 100

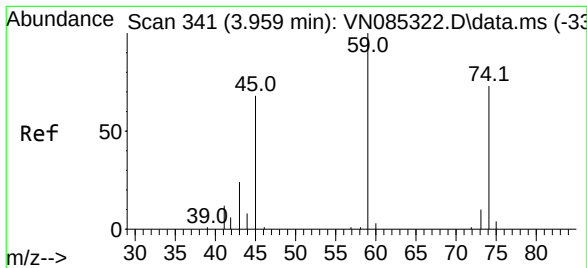
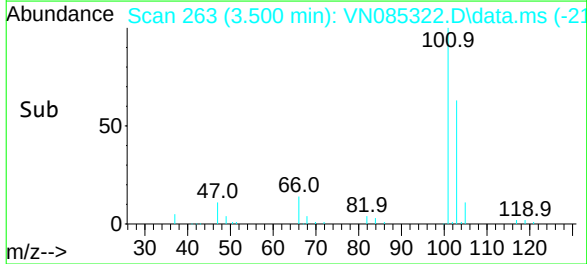
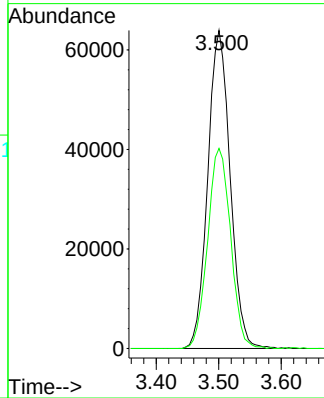
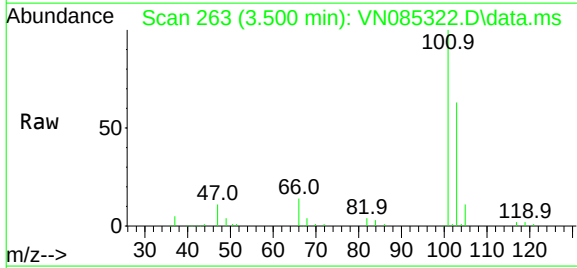
103 62.9 50.3 75.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#8

Diethyl Ether

Concen: 51.048 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.000 min

Lab File: VN085322.D

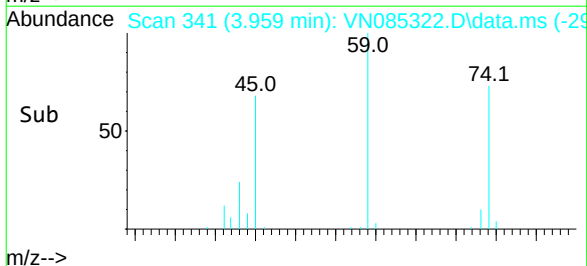
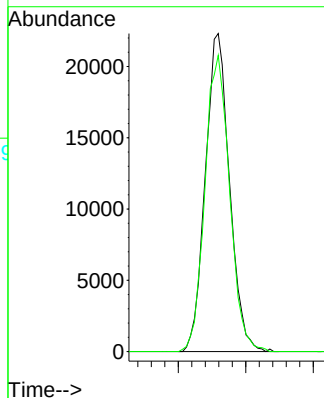
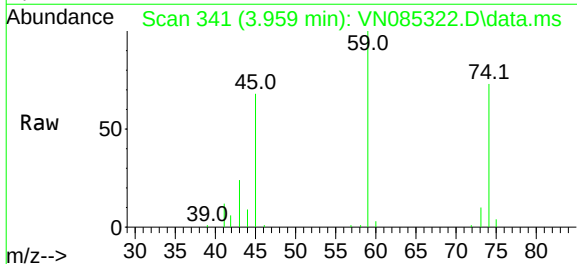
Acq: 27 Dec 2024 10:50

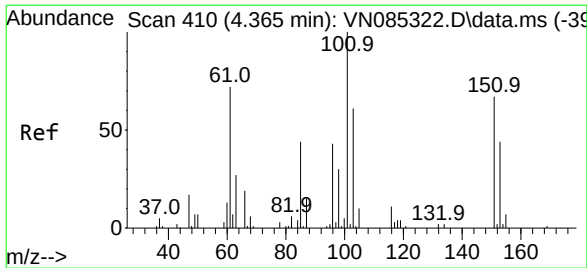
Tgt Ion: 74 Resp: 55553

Ion Ratio Lower Upper

74 100

45 95.1 47.5 142.6





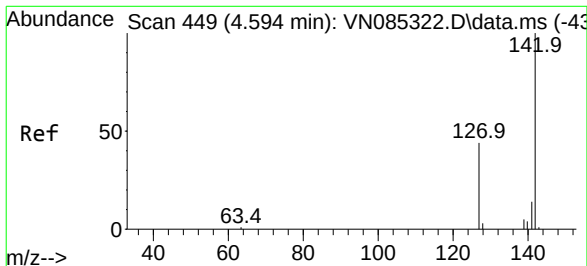
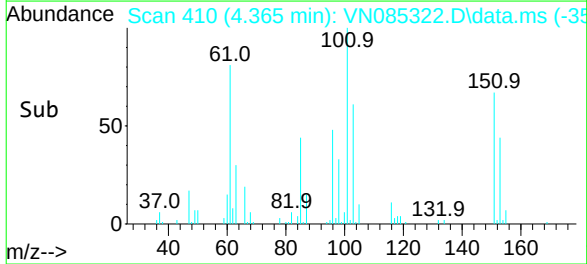
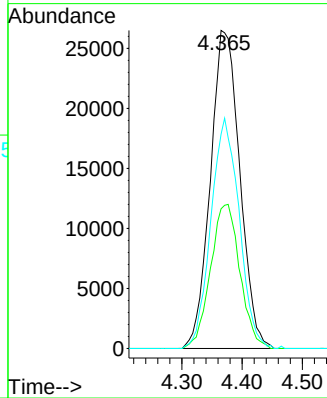
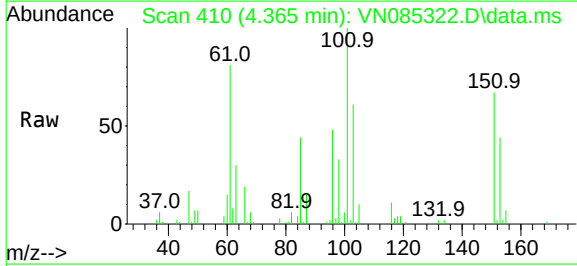
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.064 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion	101	Resp	89878
Ion Ratio	100	Lower	Upper
101	100		
85	45.3	36.2	54.4
151	69.7	55.8	83.6

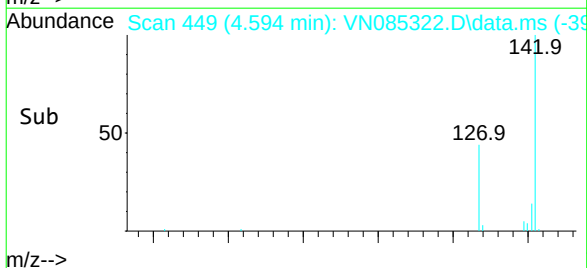
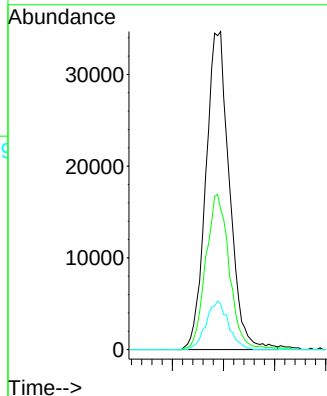
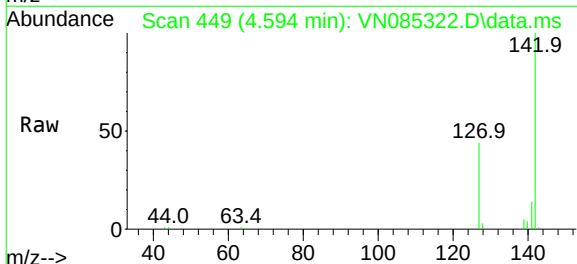
Manual Integrations
APPROVED

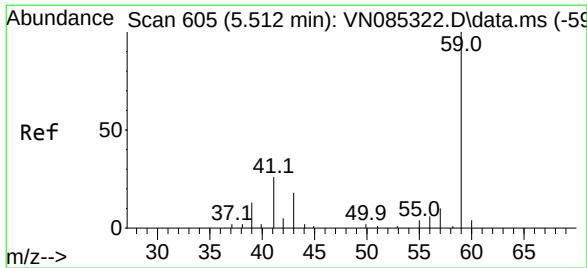
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#10
Methyl Iodide
Concen: 51.423 ug/l
RT: 4.594 min Scan# 449
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion	142	Resp	111290
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
142	100		
127	44.1	35.3	52.9
141	14.4	11.5	17.3





#11

Tert butyl alcohol

Concen: 239.459 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 66517

Ion Ratio Lower Upper

59 100

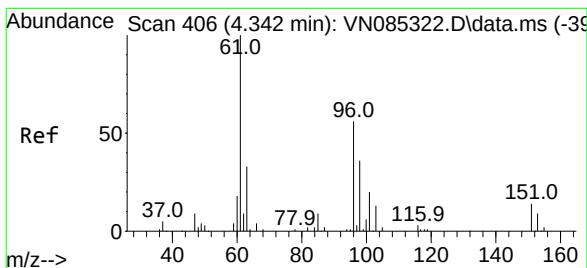
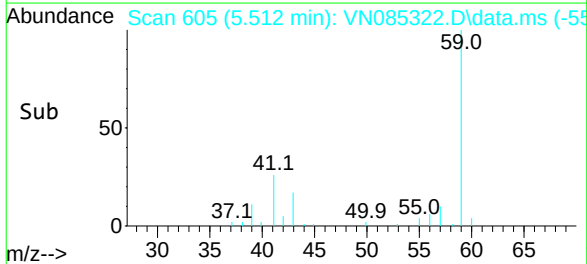
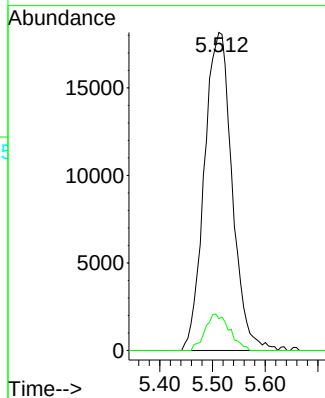
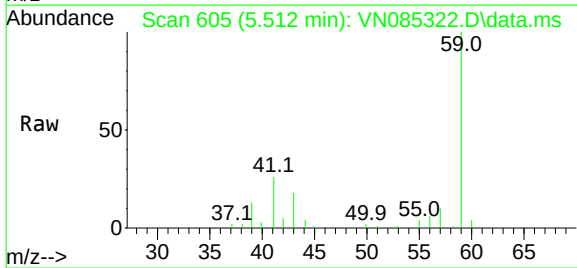
57 10.1 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#12

1,1-Dichloroethene

Concen: 48.422 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

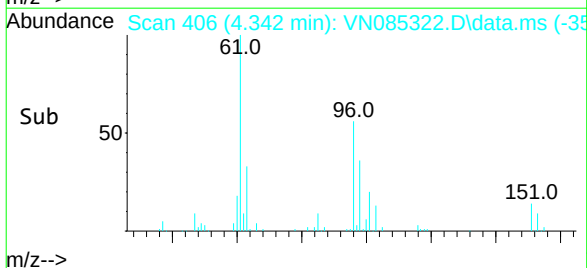
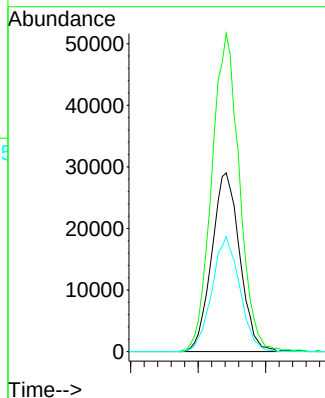
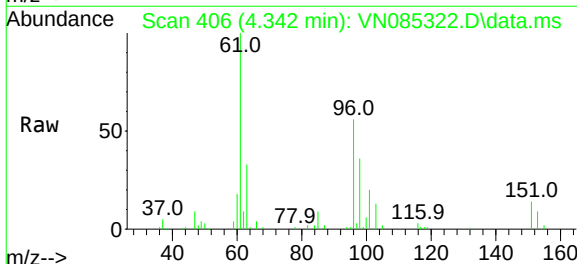
Tgt Ion: 96 Resp: 83691

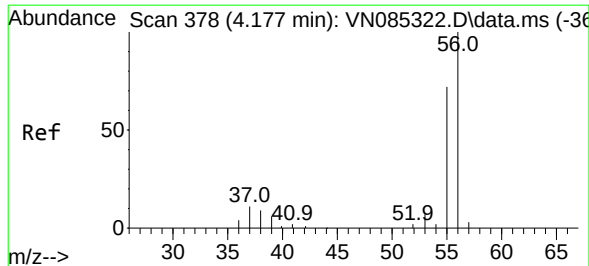
Ion Ratio Lower Upper

96 100

61 178.0 142.4 213.6

98 64.4 51.5 77.3





#13

Acrolein

Concen: 234.253 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 101450

Ion Ratio Lower Upper

56 100

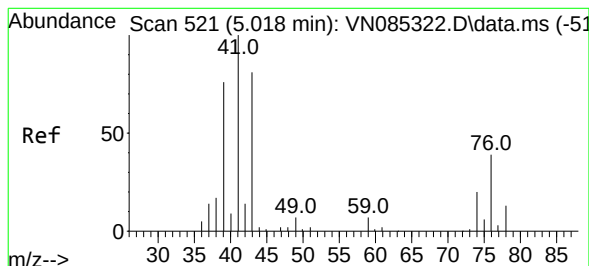
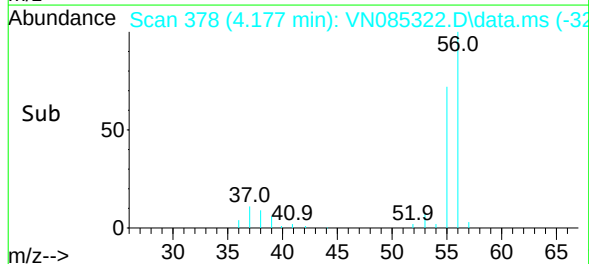
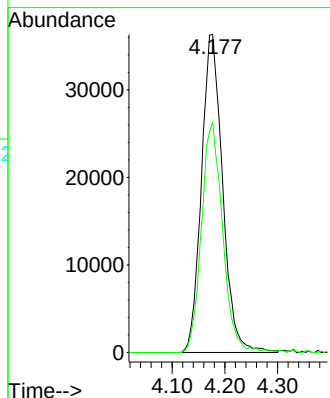
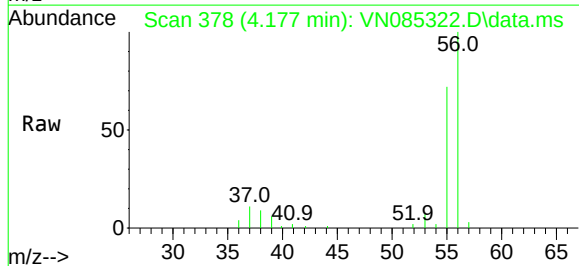
55 71.9 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#14

Allyl chloride

Concen: 48.082 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

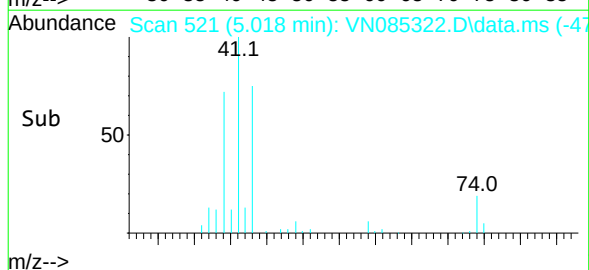
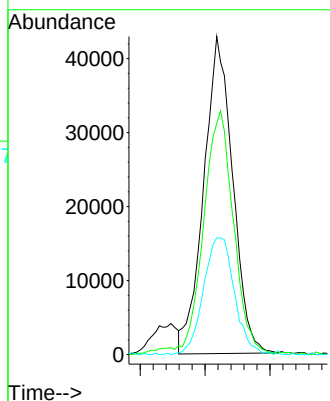
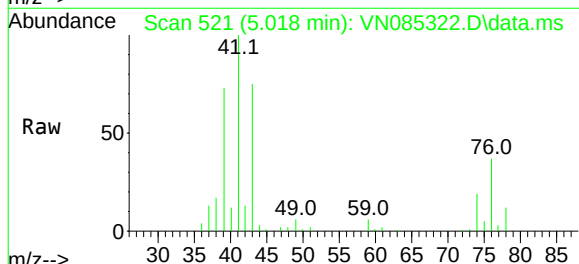
Tgt Ion: 41 Resp: 133004

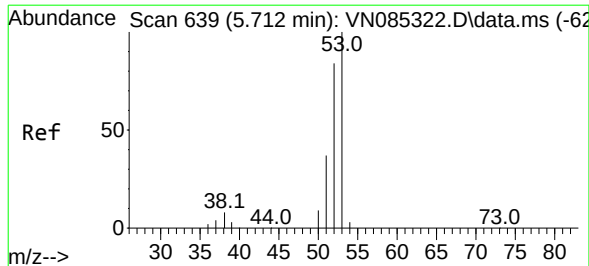
Ion Ratio Lower Upper

41 100

39 80.5 64.4 96.6

76 39.4 31.5 47.3





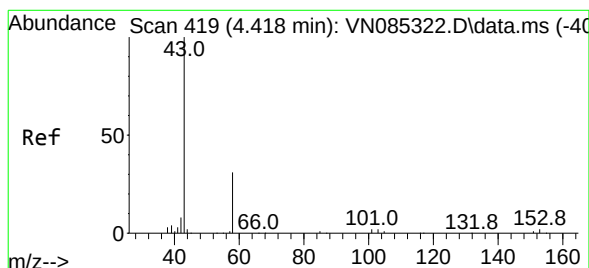
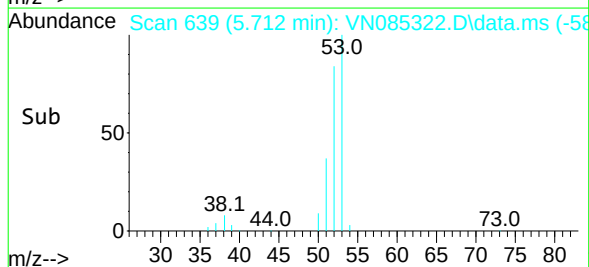
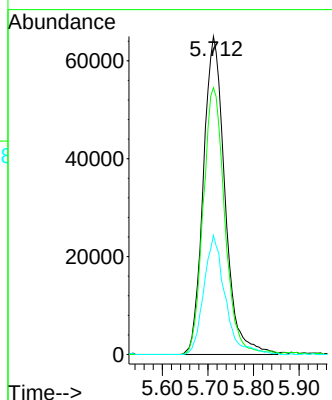
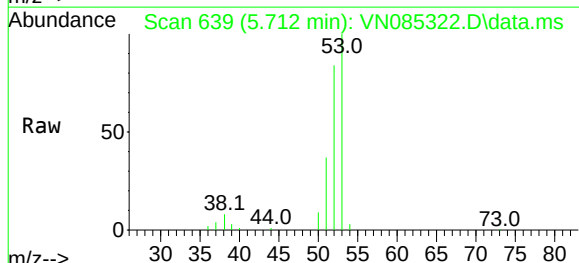
#15
Acrylonitrile
Concen: 244.585 ug/l
RT: 5.712 min Scan# 639
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 213836
Ion Ratio Lower Upper
53 100
52 83.3 66.6 100.0
51 37.0 29.6 44.4

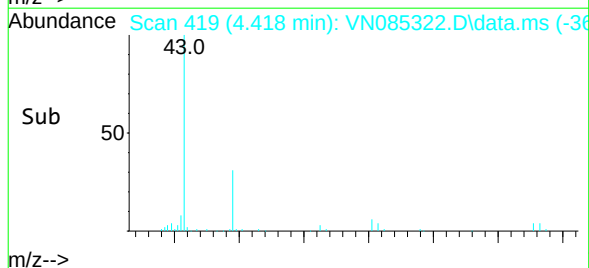
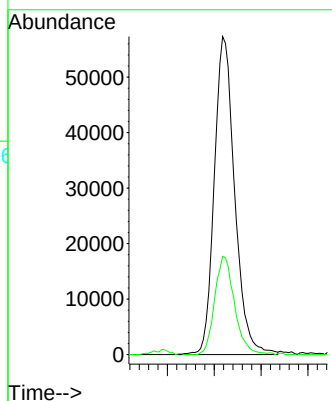
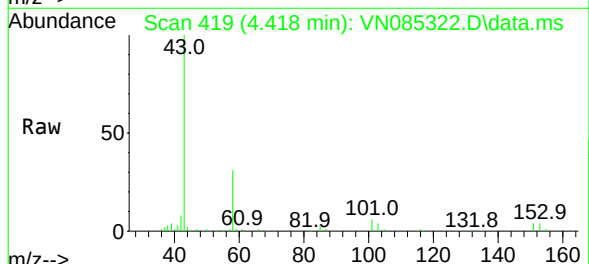
Manual Integrations
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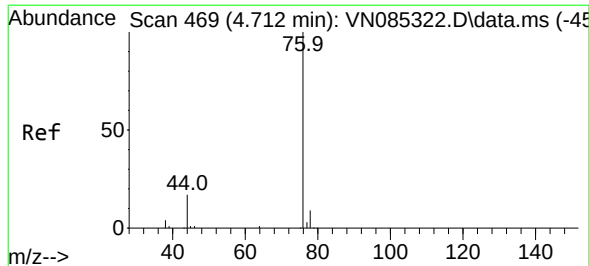
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#16
Acetone
Concen: 237.550 ug/l
RT: 4.418 min Scan# 419
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

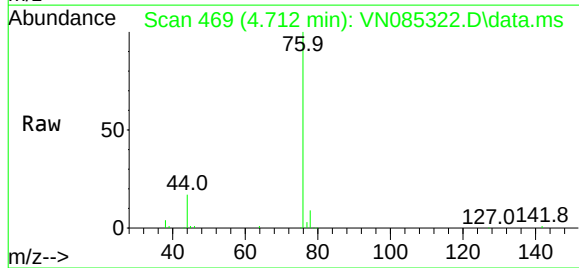
Tgt Ion: 43 Resp: 173280
Ion Ratio Lower Upper
43 100
58 30.6 24.5 36.7





#17
Carbon Disulfide
Concen: 45.421 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

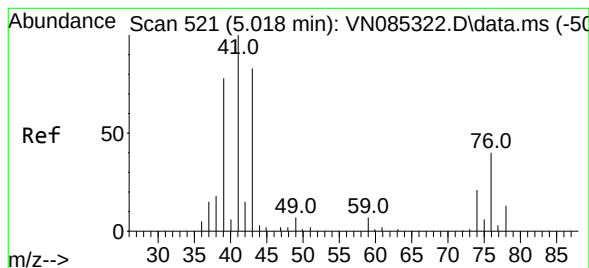
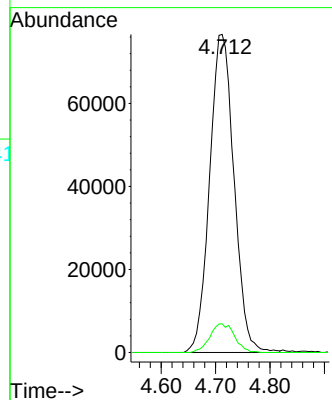
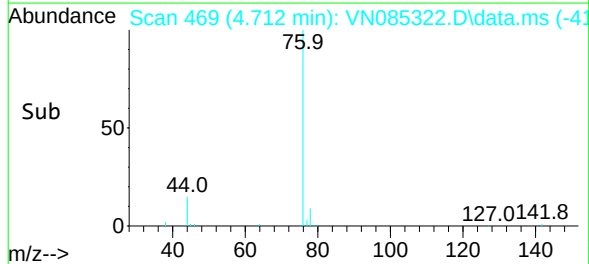
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 76 Resp: 238824
Ion Ratio Lower Upper
76 100
78 9.0 7.2 10.8

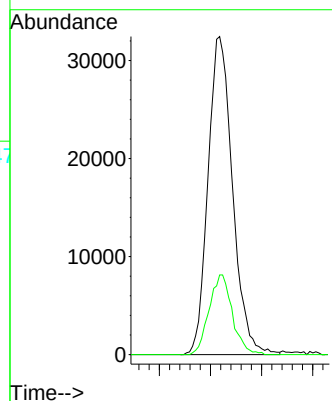
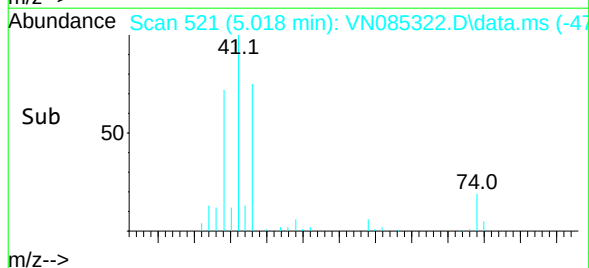
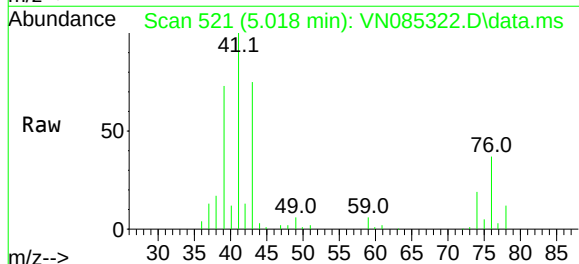
Manual Integrations
APPROVED

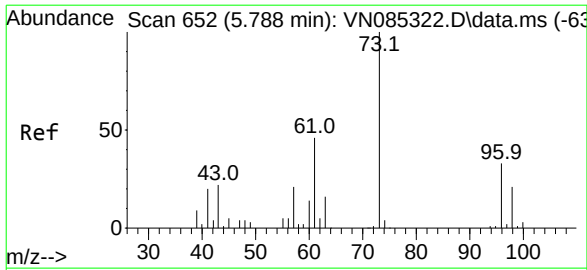
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#18
Methyl Acetate
Concen: 48.449 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 43 Resp: 108199
Ion Ratio Lower Upper
43 100
74 23.8 19.0 28.6





#19

Methyl tert-butyl Ether

Concen: 51.737 ug/l

RT: 5.788 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 290643

Ion Ratio Lower Upper

73 100

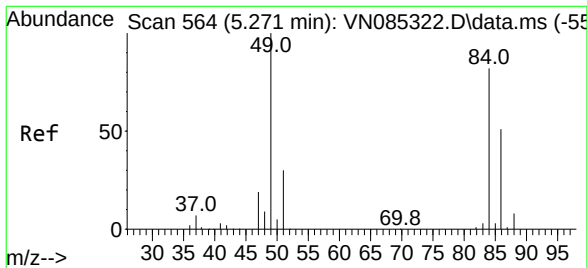
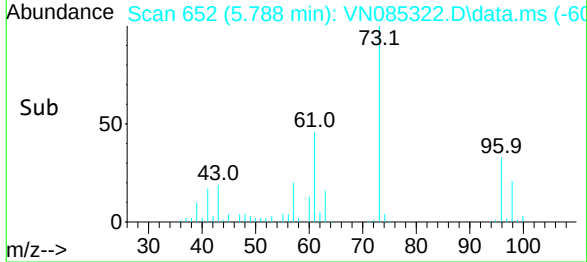
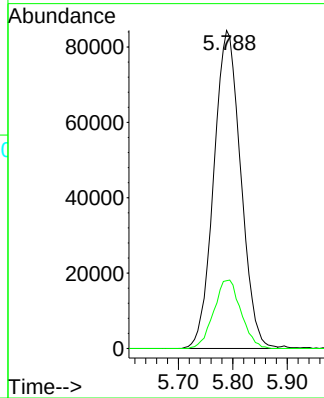
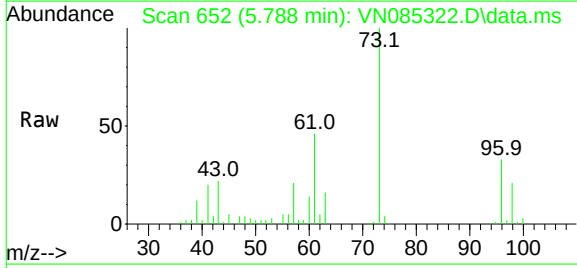
57 21.3 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#20

Methylene Chloride

Concen: 48.601 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion: 84 Resp: 95357

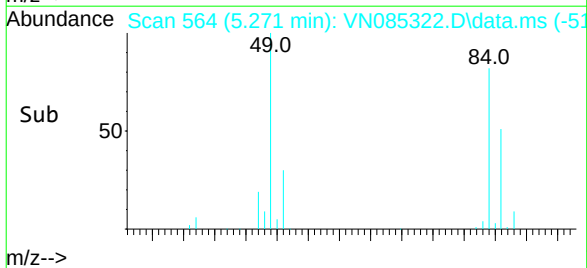
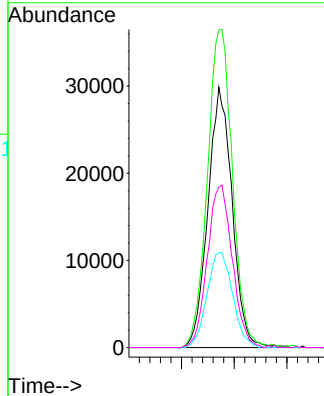
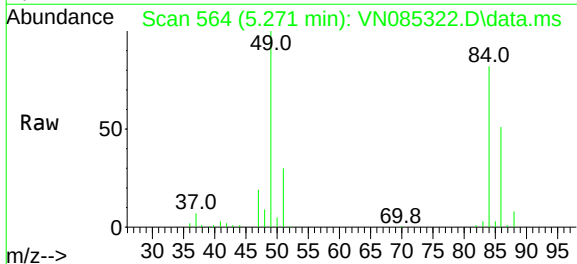
Ion Ratio Lower Upper

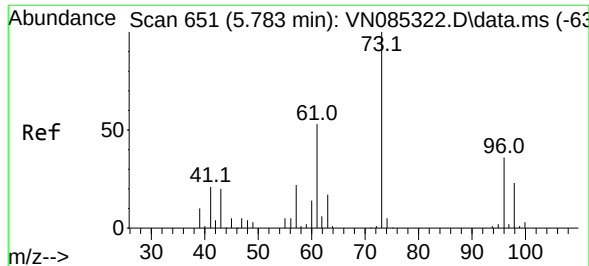
84 100

49 122.0 97.6 146.4

51 36.4 29.1 43.7

86 61.6 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 48.686 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085322.D

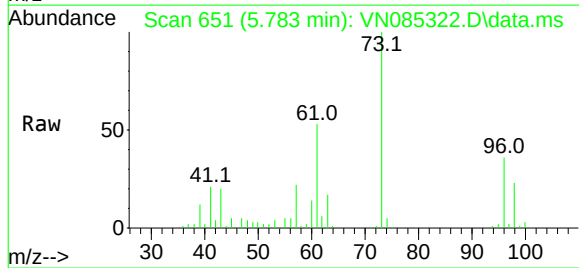
Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050



Tgt Ion: 96 Resp: 87901

Ion Ratio Lower Upper

96 100

61 147.5 118.0 177.0

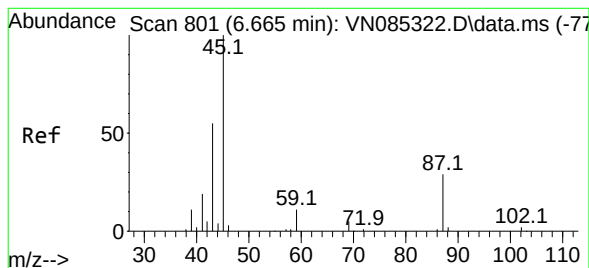
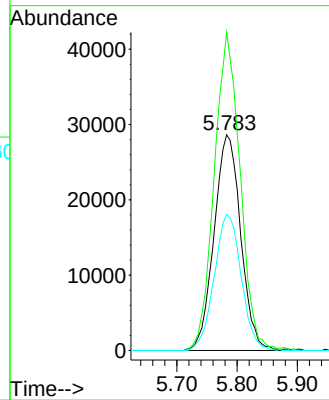
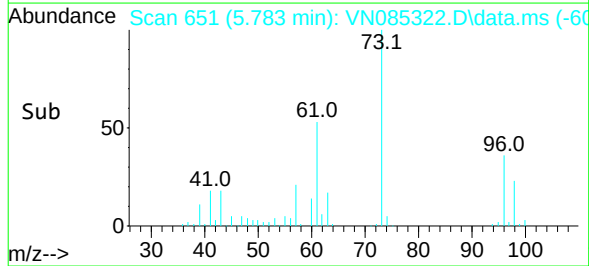
98 63.2 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#22

Diisopropyl ether

Concen: 50.788 ug/l

RT: 6.665 min Scan# 801

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion: 45 Resp: 302742

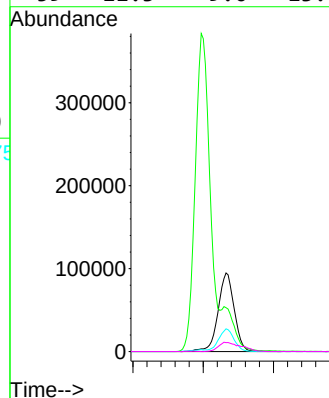
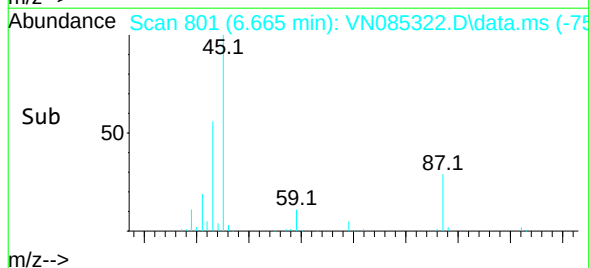
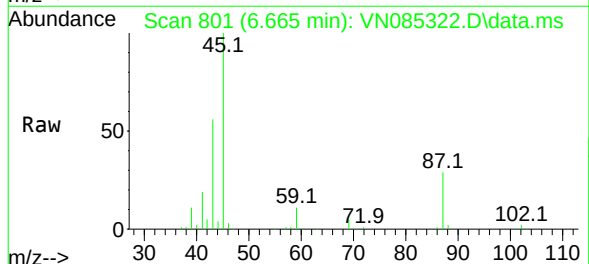
Ion Ratio Lower Upper

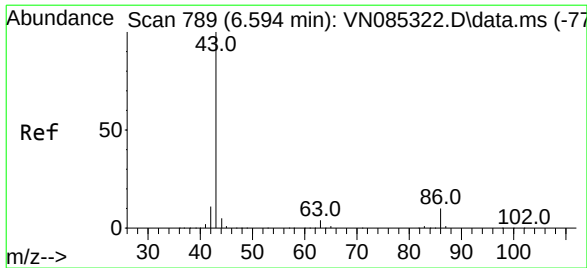
45 100

43 55.1 44.1 66.1

87 29.0 23.2 34.8

59 11.3 9.0 13.6





#23

Vinyl Acetate

Concen: 259.168 ug/l

RT: 6.594 min Scan# 789

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 1110592

Ion Ratio Lower Upper

43 100

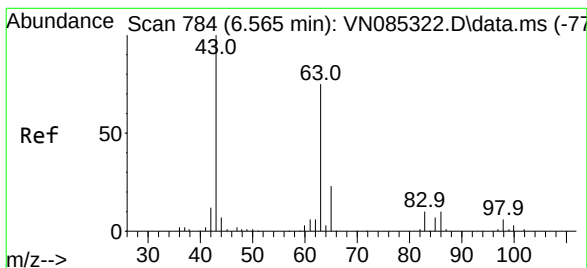
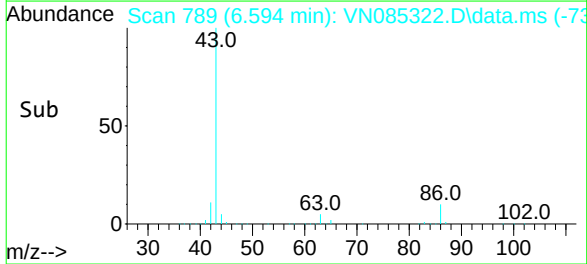
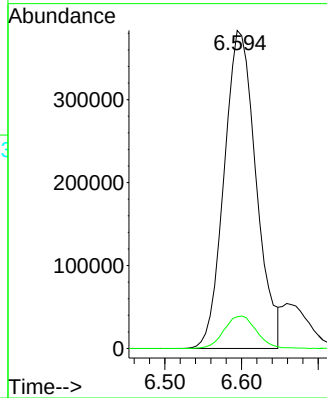
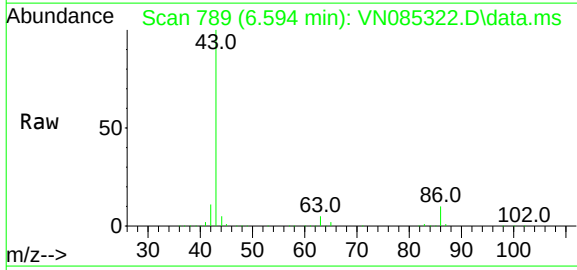
86 10.0 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#24

1,1-Dichloroethane

Concen: 48.458 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

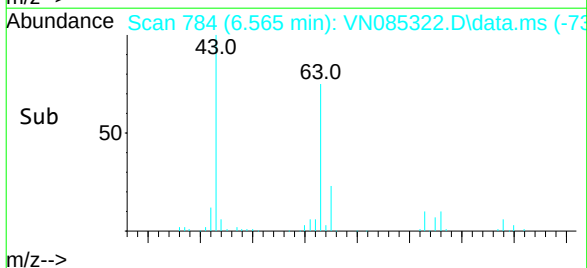
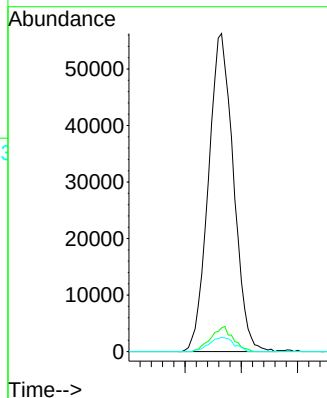
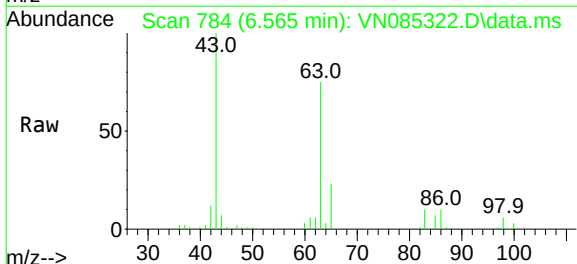
Tgt Ion: 63 Resp: 173999

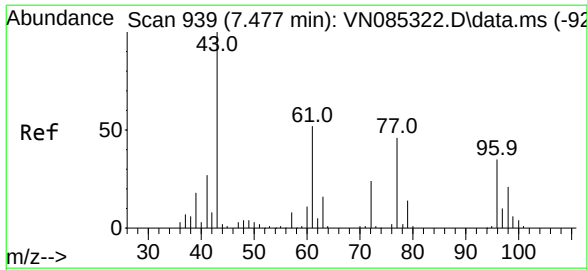
Ion Ratio Lower Upper

63 100

98 7.4 3.7 11.1

100 4.5 2.3 6.8





#25

2-Butanone

Concen: 252.198 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 285403

Ion Ratio Lower Upper

43 100

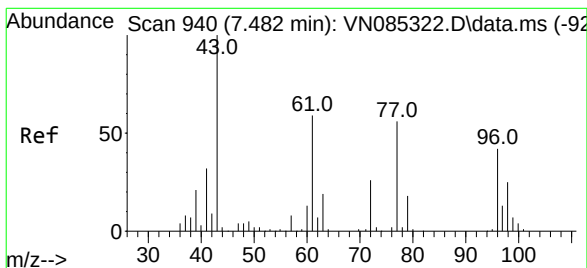
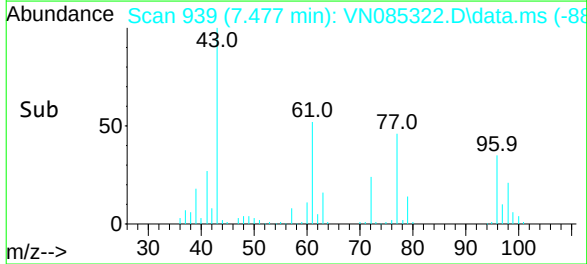
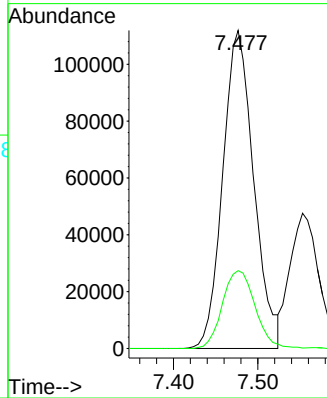
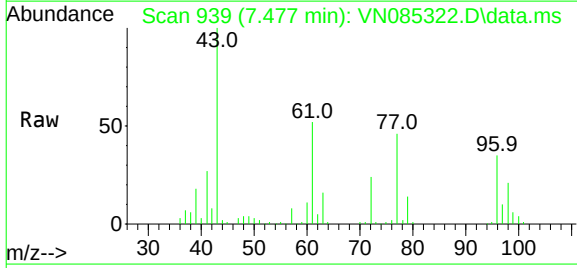
72 24.5 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#26

2,2-Dichloropropane

Concen: 50.897 ug/l

RT: 7.482 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN085322.D

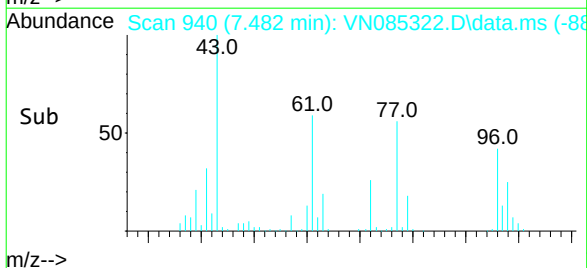
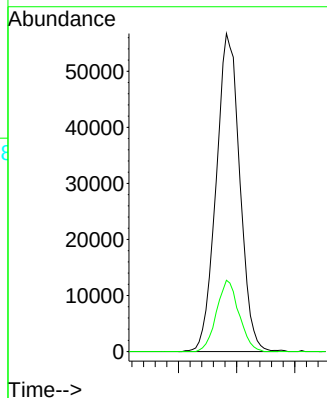
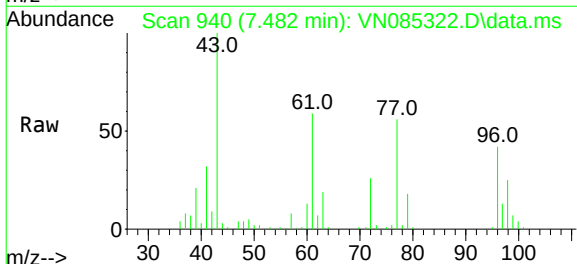
Acq: 27 Dec 2024 10:50

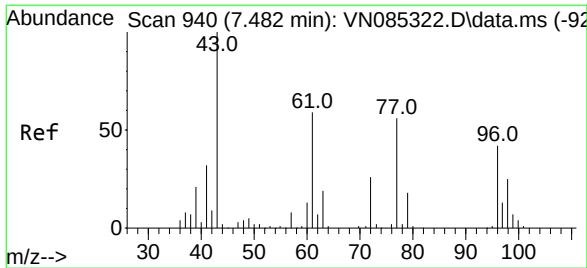
Tgt Ion: 77 Resp: 160118

Ion Ratio Lower Upper

77 100

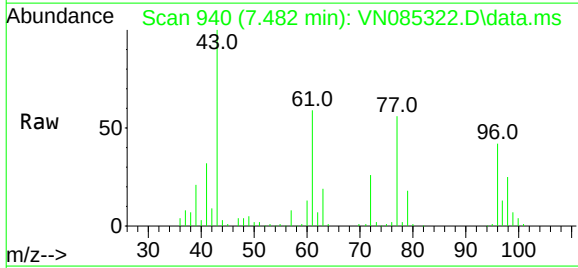
97 21.2 10.6 31.8





#27
cis-1,2-Dichloroethene
Concen: 50.718 ug/l
RT: 7.482 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

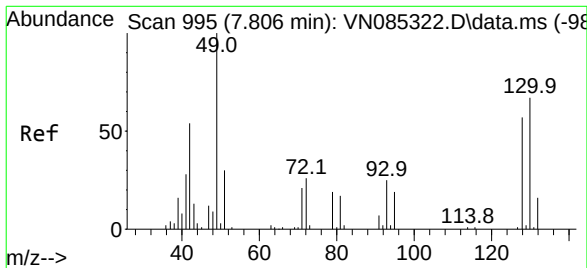
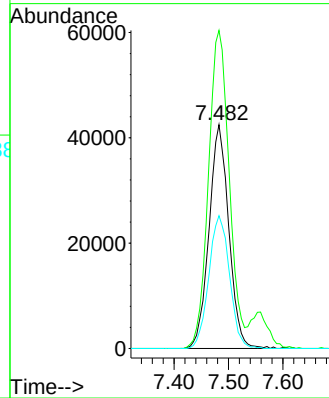
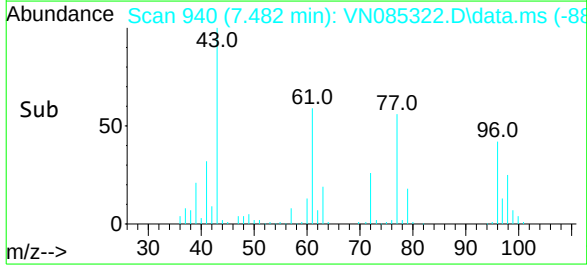
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 96 Resp: 107476
Ion Ratio Lower Upper
96 100
61 148.2 0.0 296.4
98 62.1 0.0 124.2

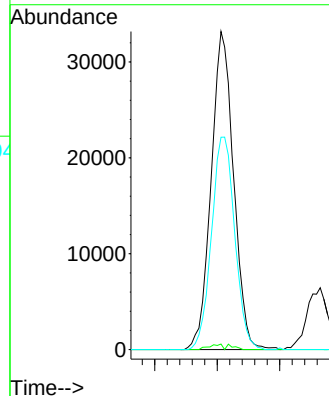
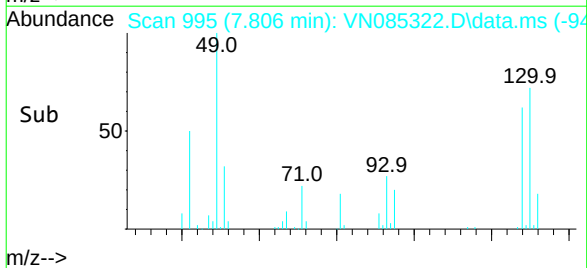
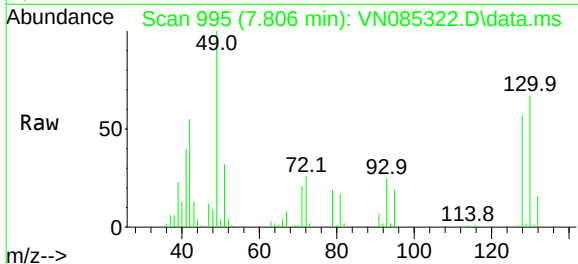
Manual Integrations
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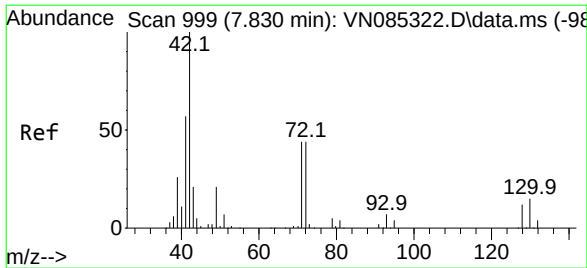
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#28
Bromochloromethane
Concen: 49.616 ug/l
RT: 7.806 min Scan# 995
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 49 Resp: 82793
Ion Ratio Lower Upper
49 100
129 1.0 0.0 2.0
130 0.0 0.0 0.0





#29

Tetrahydrofuran

Concen: 254.548 ug/l

RT: 7.830 min Scan# 999

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 185555

Ion Ratio Lower Upper

42 100

72 43.9 35.1 52.7

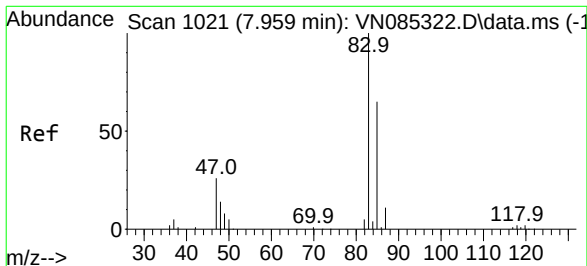
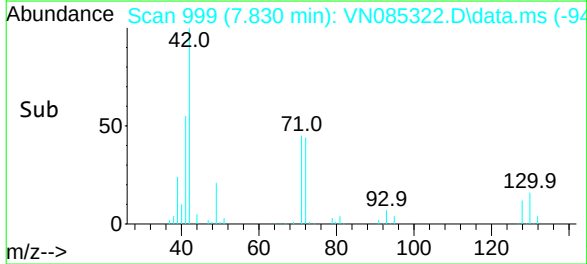
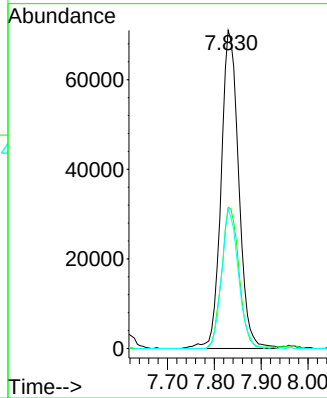
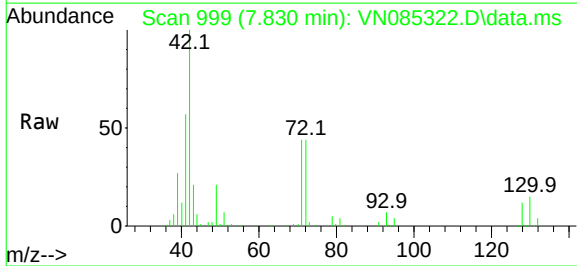
71 41.7 33.4 50.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#30

Chloroform

Concen: 47.991 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. 0.000 min

Lab File: VN085322.D

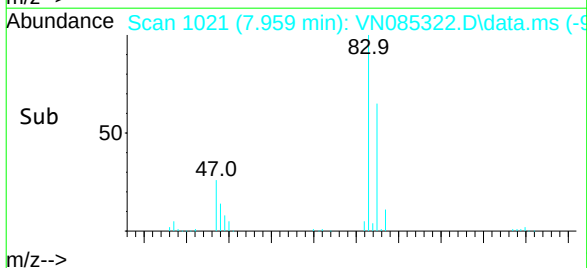
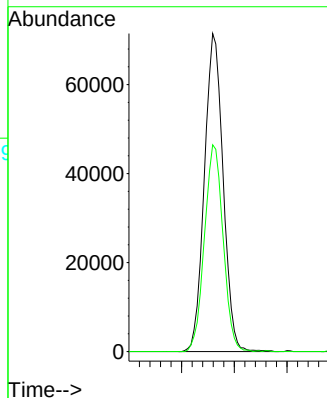
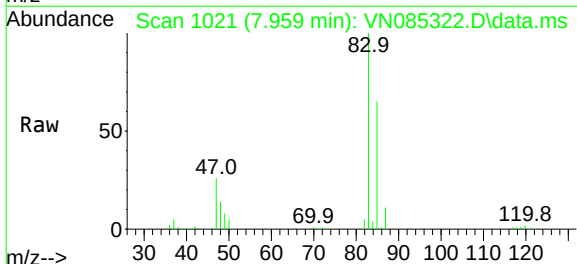
Acq: 27 Dec 2024 10:50

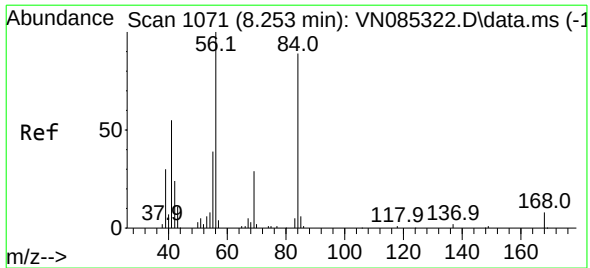
Tgt Ion: 83 Resp: 176294

Ion Ratio Lower Upper

83 100

85 65.0 52.0 78.0





#31

Cyclohexane

Concen: 46.455 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 152319

Ion Ratio Lower Upper

56 100

69 29.2 23.4 35.0

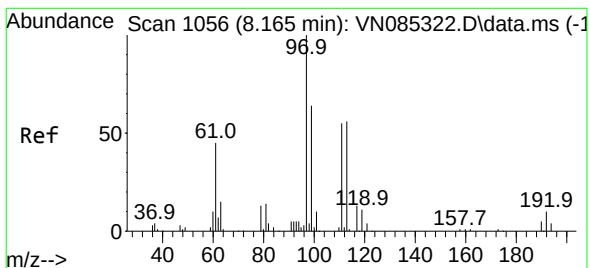
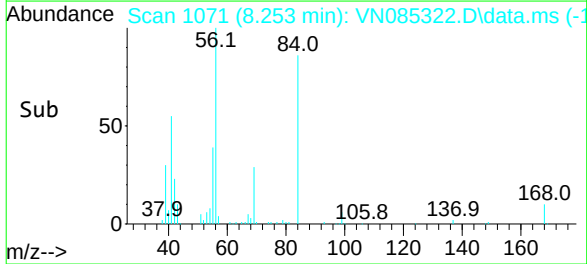
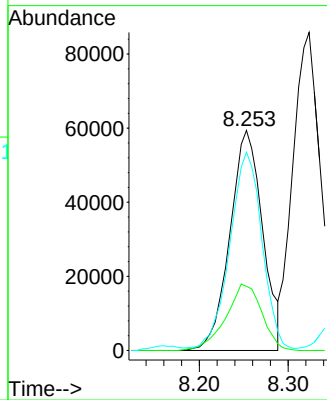
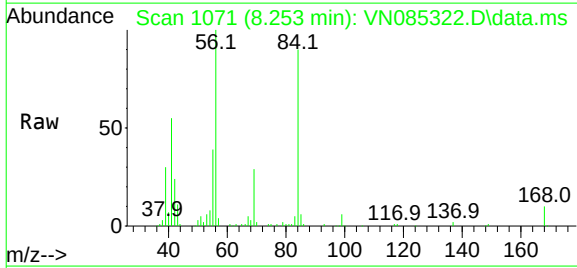
84 88.8 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#32

1,1,1-Trichloroethane

Concen: 48.441 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

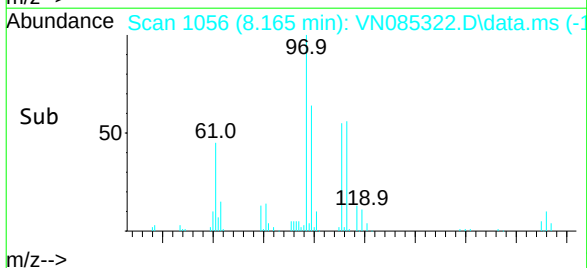
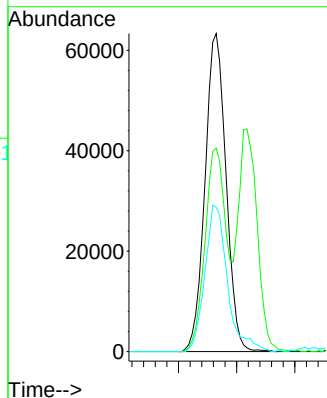
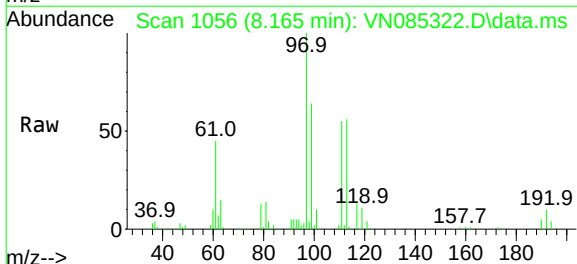
Tgt Ion: 97 Resp: 158921

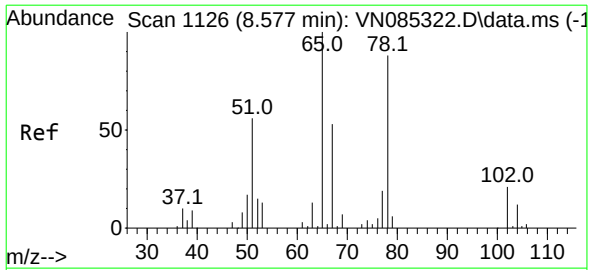
Ion Ratio Lower Upper

97 100

99 66.6 53.3 79.9

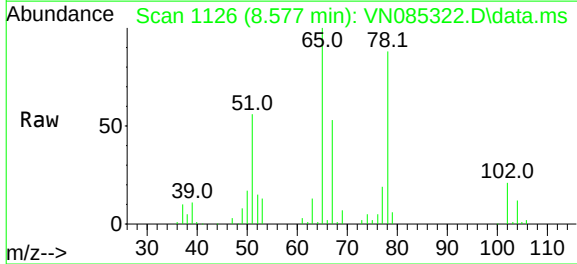
61 49.5 39.6 59.4





#33
1,2-Dichloroethane-d4
Concen: 50.305 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

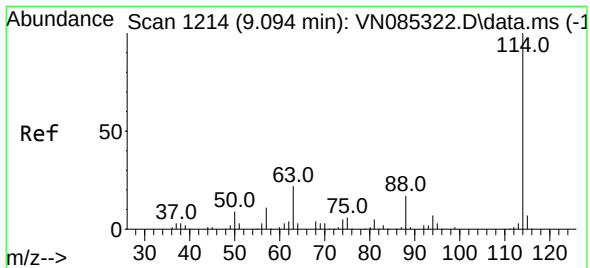
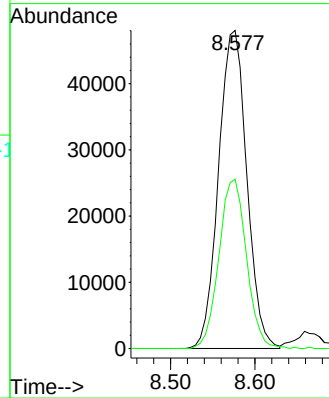
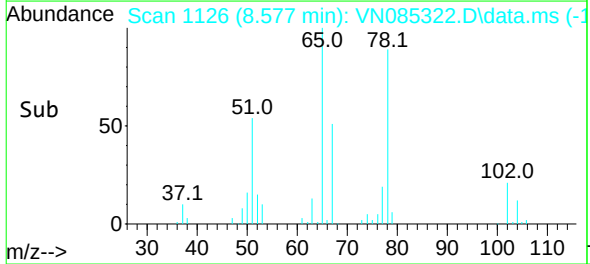
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



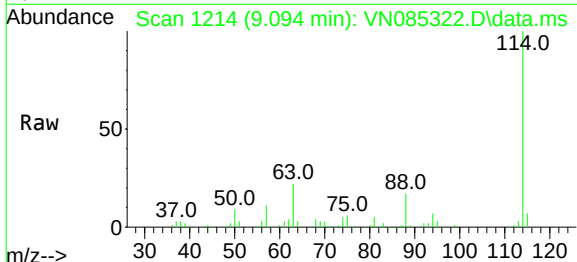
Tgt Ion: 65 Resp: 111594
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.0

Manual Integrations
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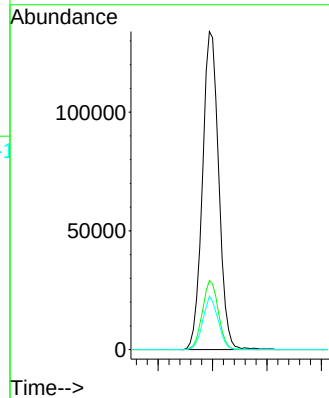
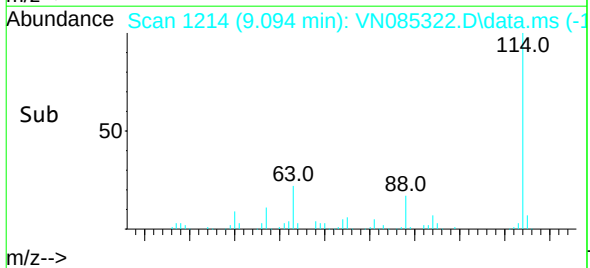
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

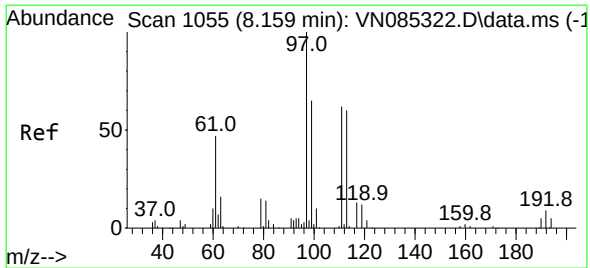


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50



Tgt Ion:114 Resp: 278404
Ion Ratio Lower Upper
114 100
63 21.7 0.0 43.4
88 16.8 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.825 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 88275

Ion Ratio Lower Upper

113 100

111 100.6 80.5 120.7

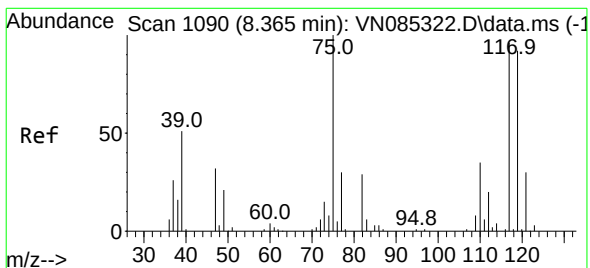
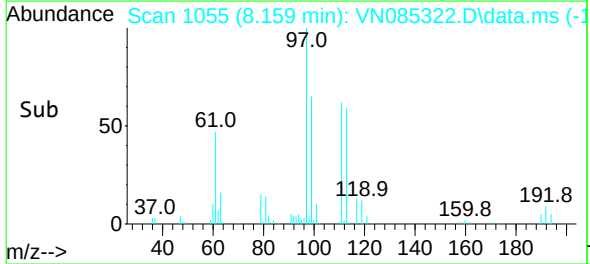
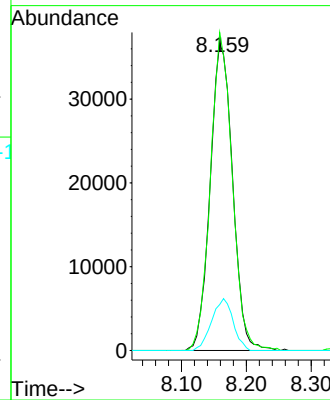
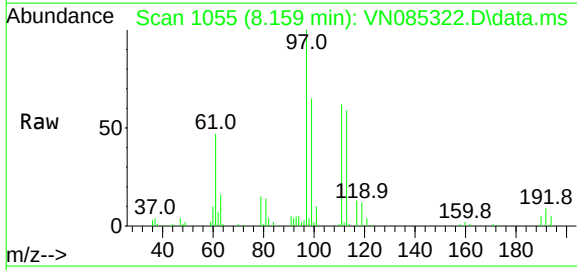
192 16.1 12.9 19.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#36

1,1-Dichloropropene

Concen: 50.513 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

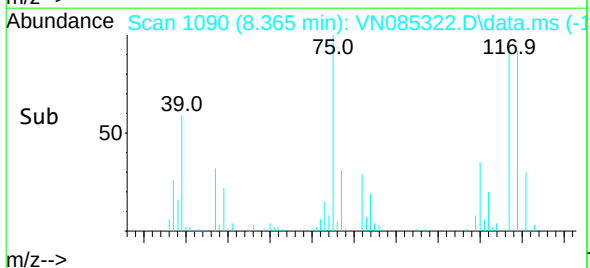
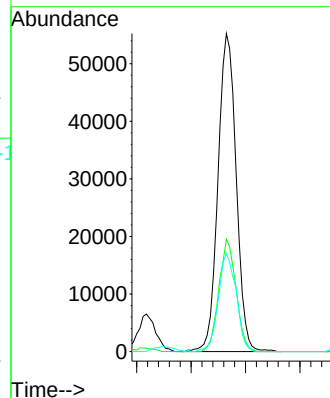
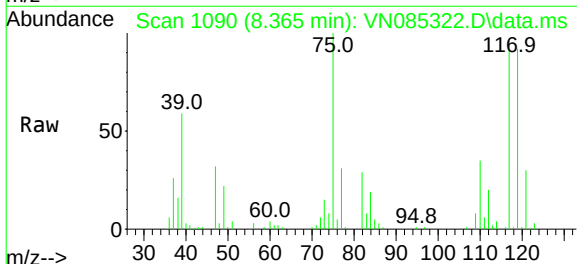
Tgt Ion: 75 Resp: 128454

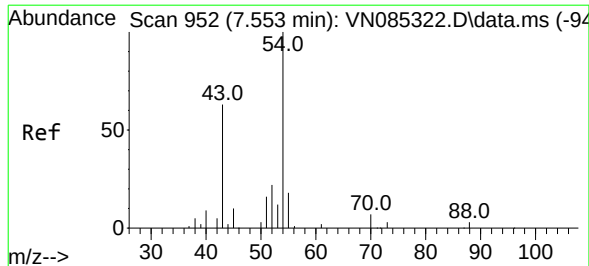
Ion Ratio Lower Upper

75 100

110 33.2 16.6 49.8

77 30.4 24.3 36.5





#37

Ethyl Acetate

Concen: 45.842 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 115871

Ion Ratio Lower Upper

43 100

61 13.0 10.4 15.6

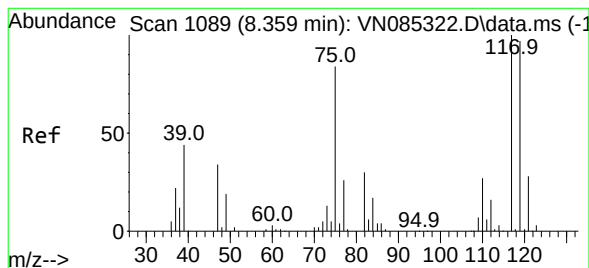
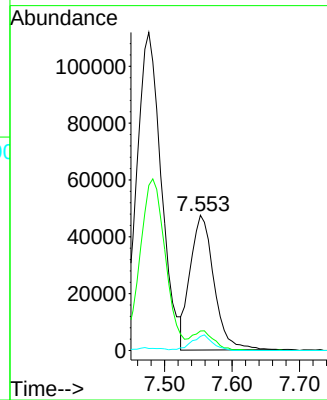
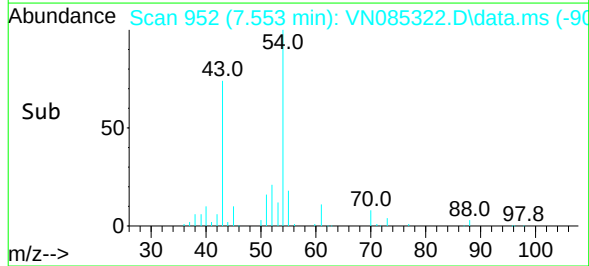
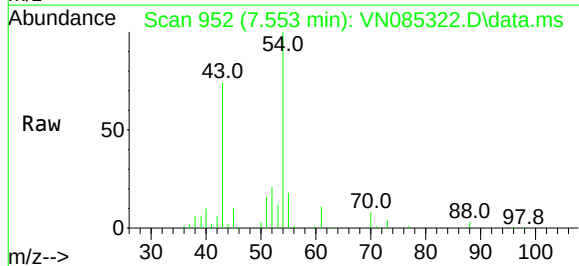
70 10.2 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#38

Carbon Tetrachloride

Concen: 50.401 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

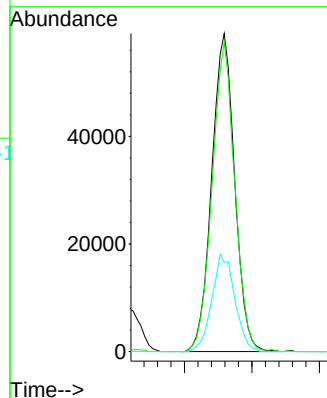
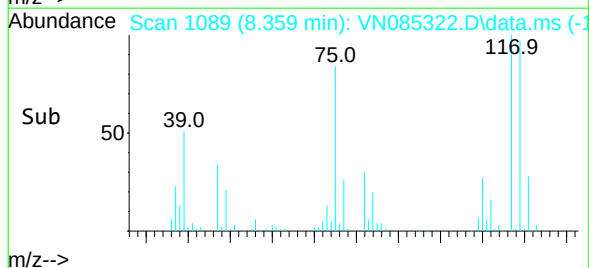
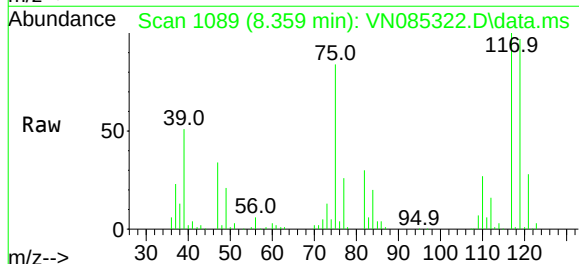
Tgt Ion:117 Resp: 139705

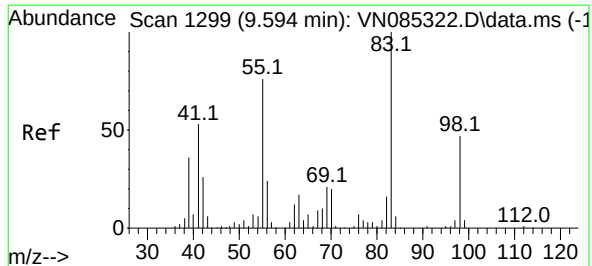
Ion Ratio Lower Upper

117 100

119 97.2 77.8 116.6

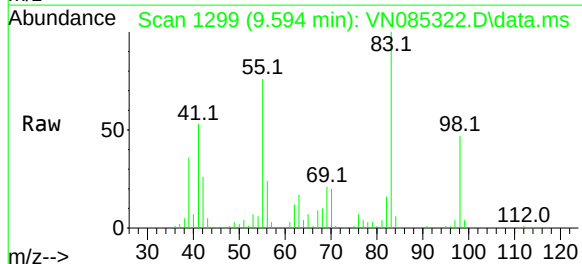
121 28.1 22.5 33.7





#39
Methylcyclohexane
Concen: 53.172 ug/l
RT: 9.594 min Scan# 1299
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

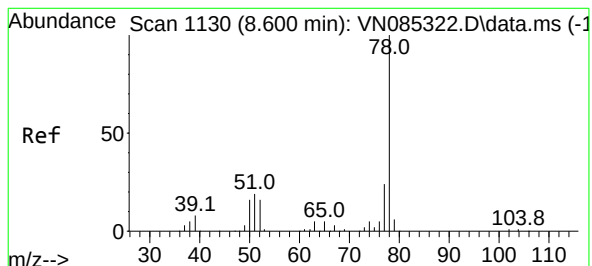
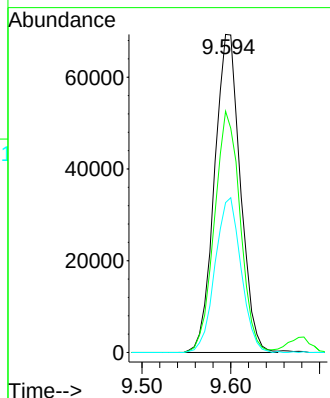
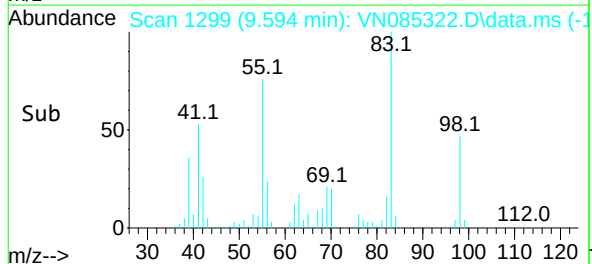
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 83 Resp: 140293
Ion Ratio Lower Upper
83 100
55 75.9 60.7 91.1
98 47.1 37.7 56.5

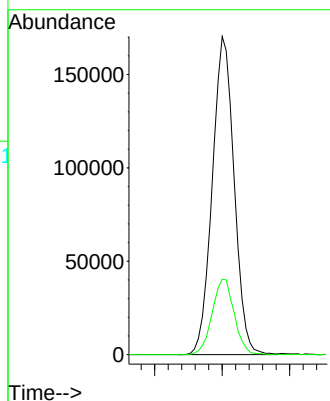
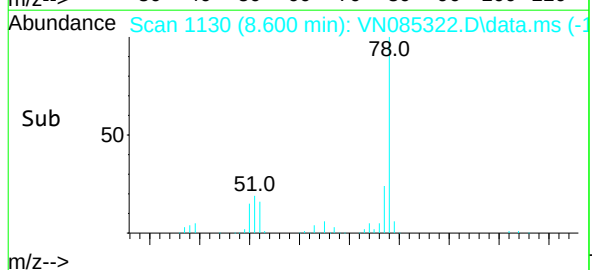
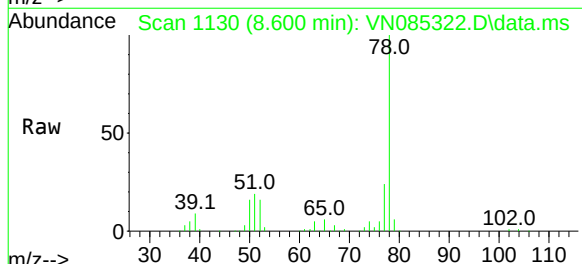
Manual Integrations
APPROVED

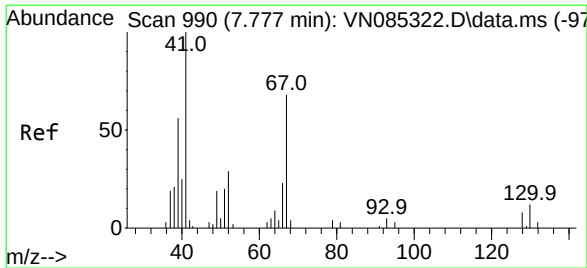
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#40
Benzene
Concen: 49.867 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 78 Resp: 383405
Ion Ratio Lower Upper
78 100
77 23.7 19.0 28.4





#41

Methacrylonitrile

Concen: 50.764 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 41 Resp: 65714

Ion Ratio Lower Upper

41 100

39 57.3 45.8 68.8

67 71.4 57.1 85.7

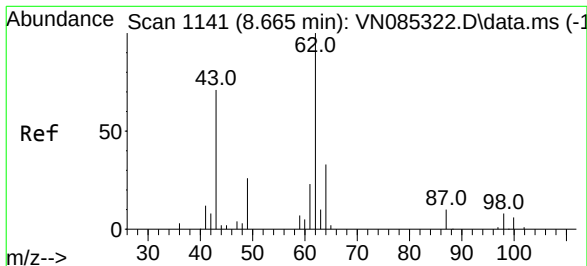
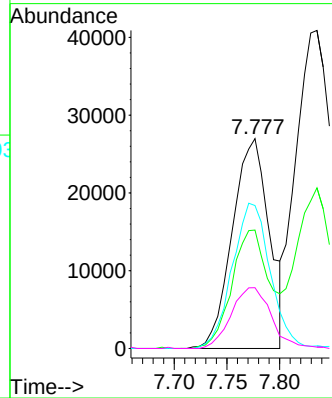
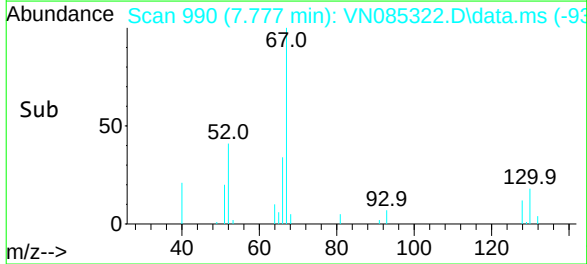
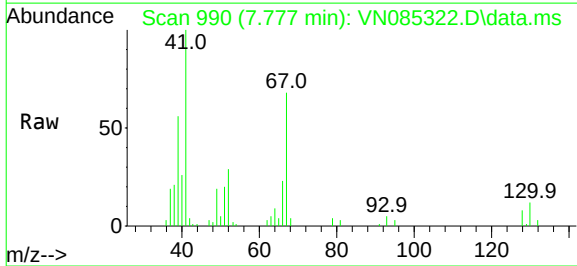
52 31.4 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#42

1,2-Dichloroethane

Concen: 47.766 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085322.D

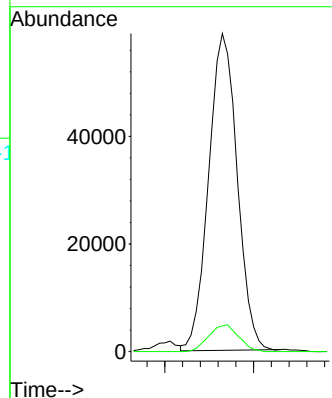
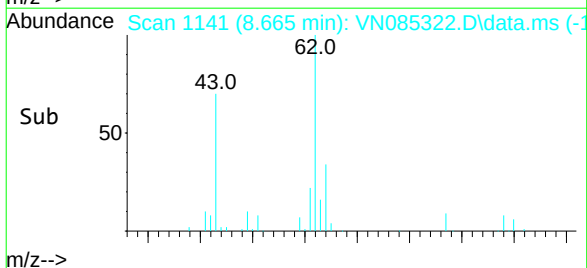
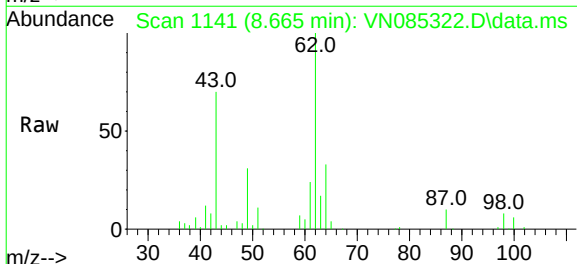
Acq: 27 Dec 2024 10:50

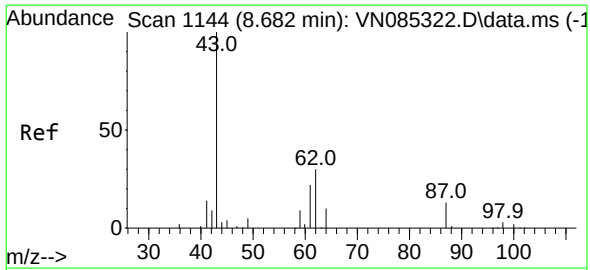
Tgt Ion: 62 Resp: 131673

Ion Ratio Lower Upper

62 100

98 8.8 0.0 17.6





#43

Isopropyl Acetate

Concen: 49.811 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 207309

Ion Ratio Lower Upper

43 100

61 26.0 20.8 31.2

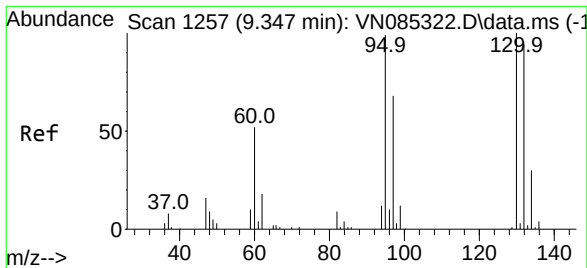
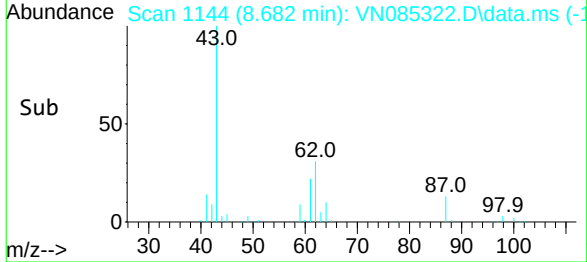
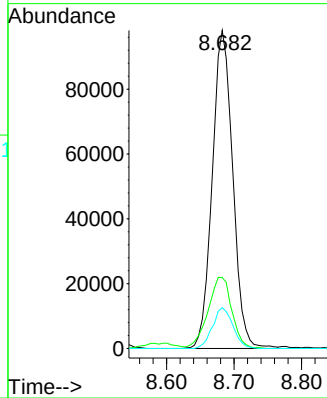
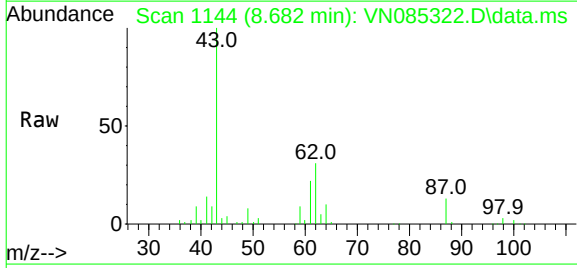
87 12.8 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#44

Trichloroethene

Concen: 47.578 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085322.D

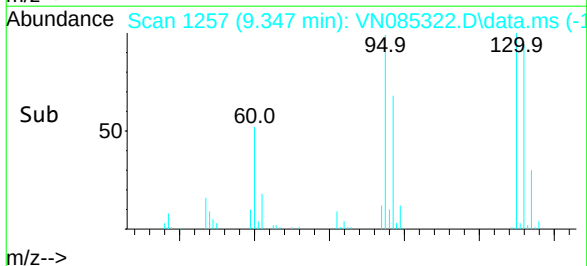
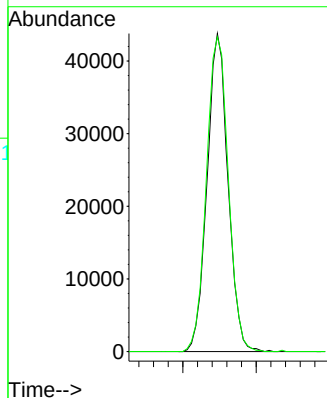
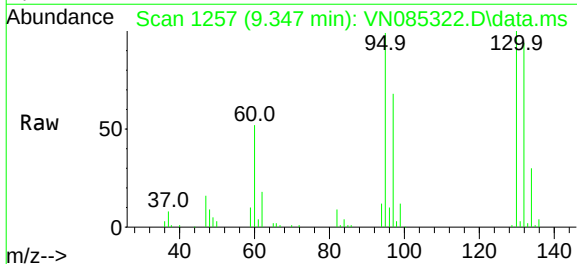
Acq: 27 Dec 2024 10:50

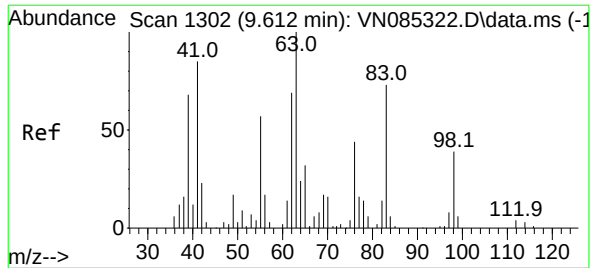
Tgt Ion:130 Resp: 86607

Ion Ratio Lower Upper

130 100

95 98.9 0.0 197.8





#45

1,2-Dichloropropane

Concen: 48.407 ug/l

RT: 9.612 min Scan# 1302

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 94480

Ion Ratio Lower Upper

63 100

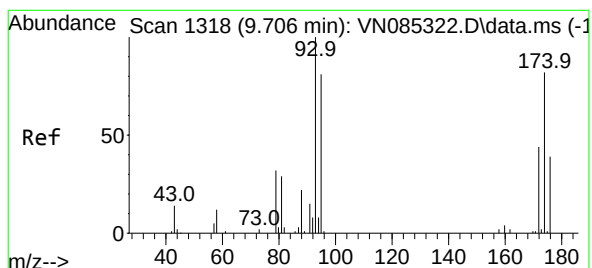
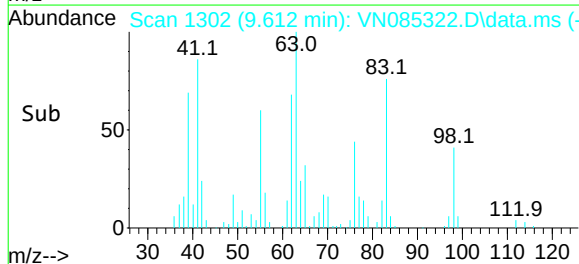
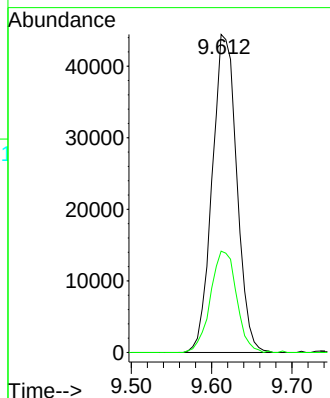
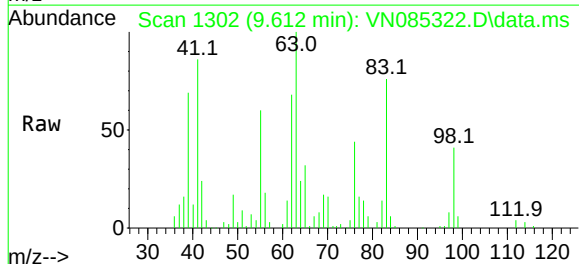
65 31.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#46

Dibromomethane

Concen: 49.281 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

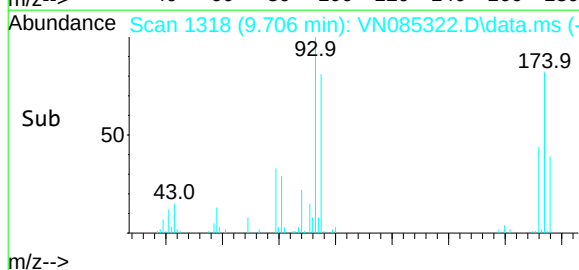
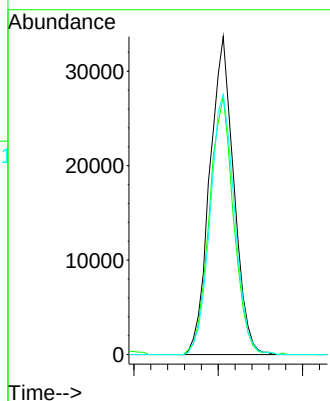
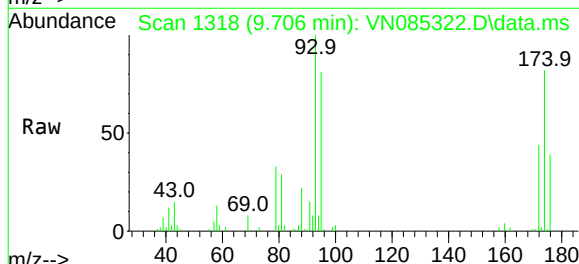
Tgt Ion: 93 Resp: 66895

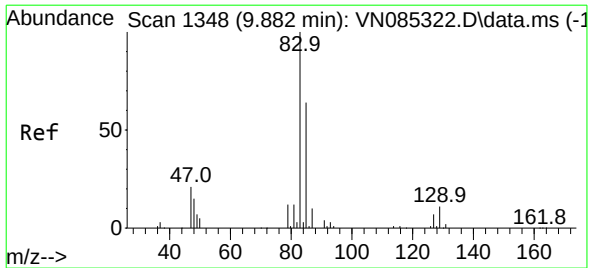
Ion Ratio Lower Upper

93 100

95 81.6 65.3 97.9

174 83.0 66.4 99.6





#47

Bromodichloromethane

Concen: 49.791 ug/l

RT: 9.882 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

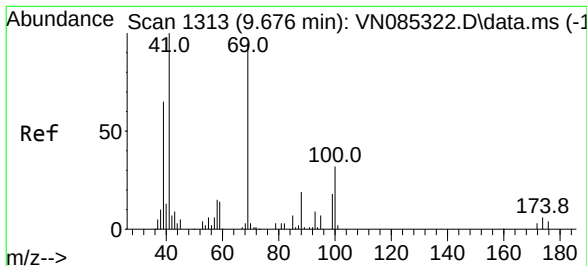
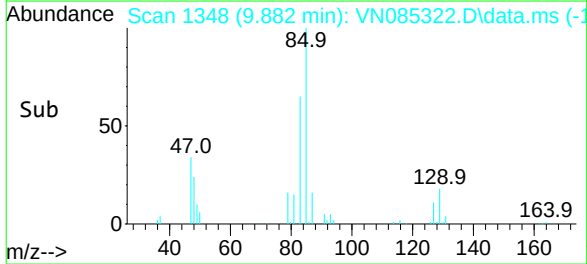
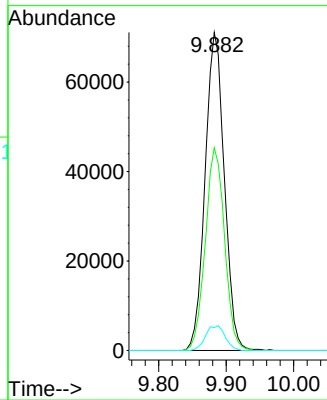
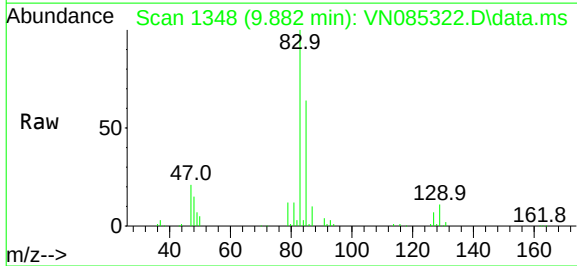
ClientSampleId :

VSTDICCC050

Tgt Ion:	83	Resp:	140475
Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.0	76.4
127	7.2	5.8	8.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#48

Methyl methacrylate

Concen: 52.885 ug/l

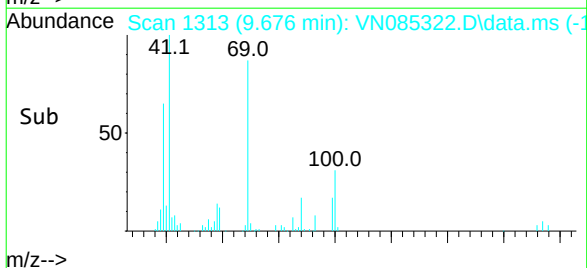
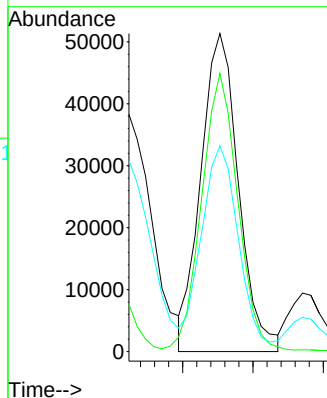
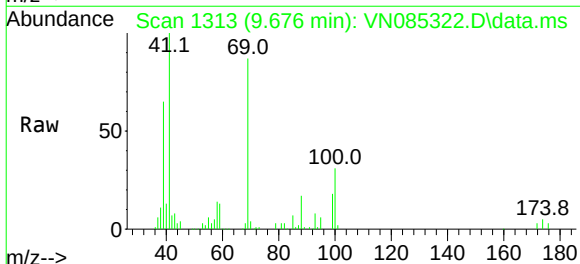
RT: 9.676 min Scan# 1313

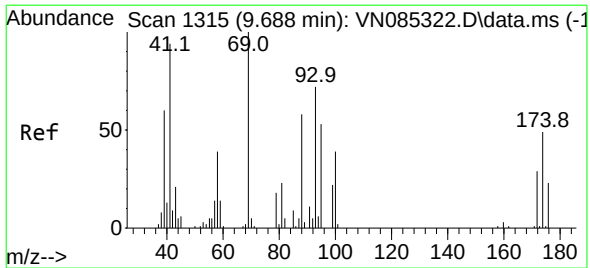
Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:	41	Resp:	95506
Ion	Ratio	Lower	Upper
41	100		
69	84.6	67.7	101.5
39	64.0	51.2	76.8





#49

1,4-Dioxane

Concen: 1099.805 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 29967

Ion Ratio Lower Upper

88 100

43 27.6 22.1 33.1

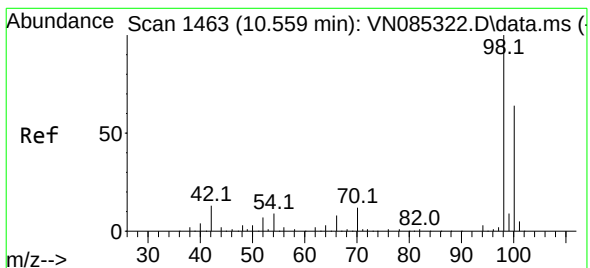
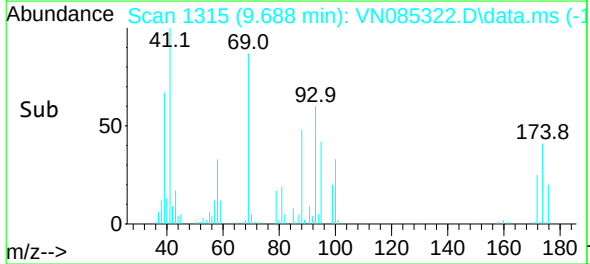
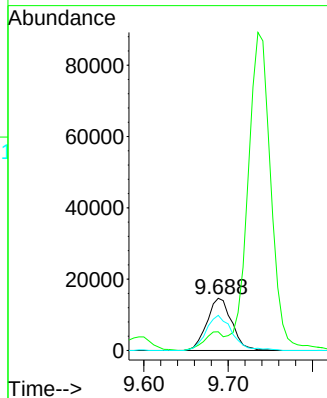
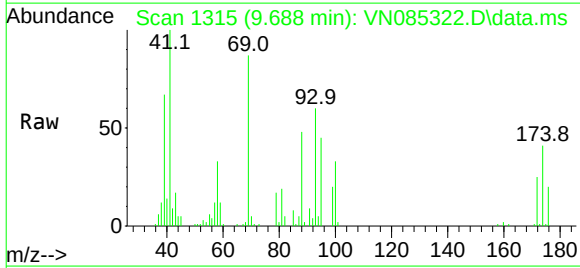
58 70.9 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#50

Toluene-d8

Concen: 50.695 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. 0.000 min

Lab File: VN085322.D

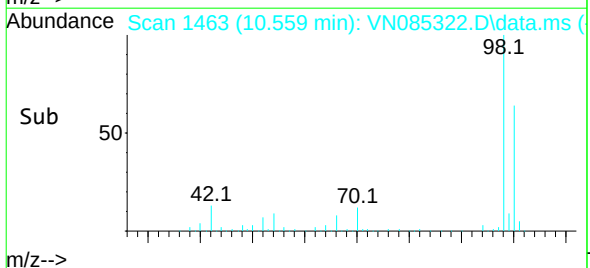
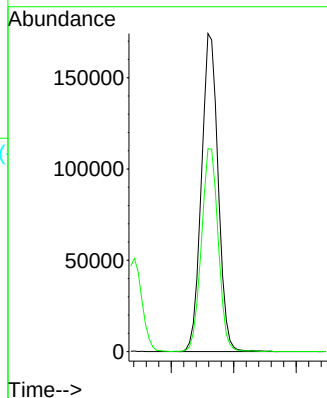
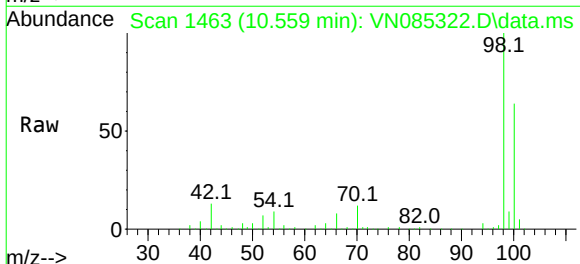
Acq: 27 Dec 2024 10:50

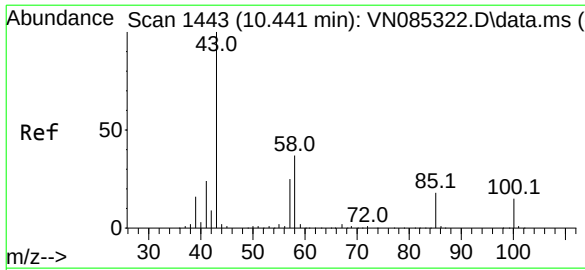
Tgt Ion: 98 Resp: 323100

Ion Ratio Lower Upper

98 100

100 64.4 51.5 77.3





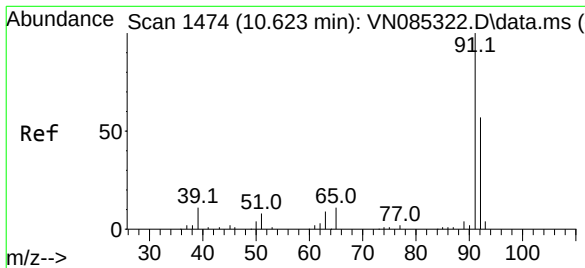
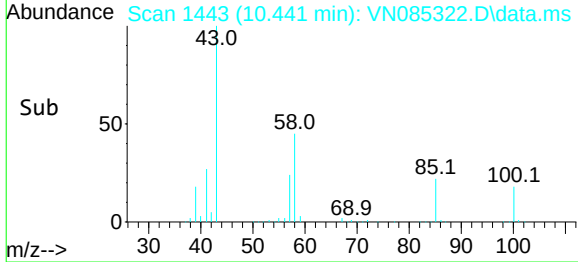
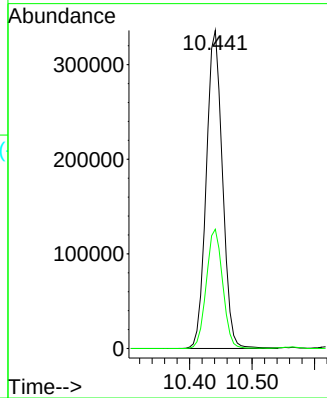
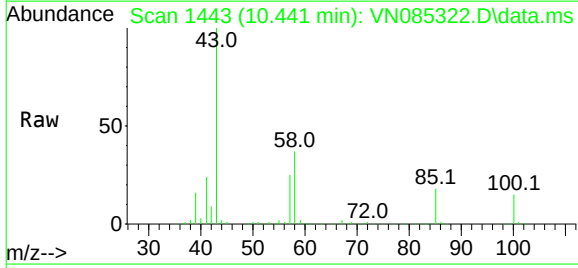
#51
4-Methyl-2-Pentanone
Concen: 258.422 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 604417
Ion Ratio Lower Upper
43 100
58 37.9 30.3 45.5

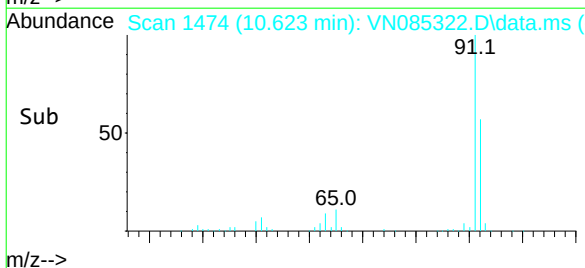
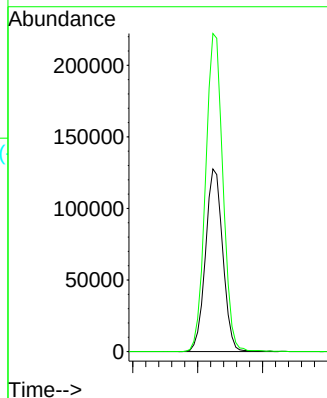
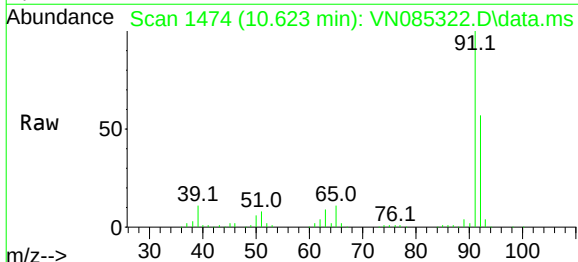
Manual Integrations
APPROVED

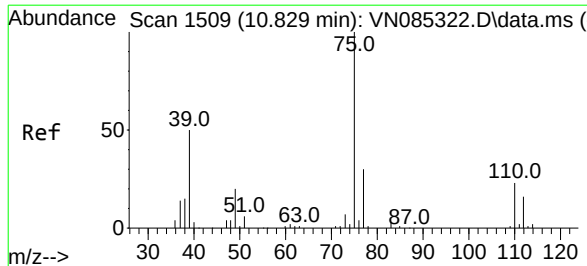
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#52
Toluene
Concen: 51.469 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 92 Resp: 235625
Ion Ratio Lower Upper
92 100
91 175.3 140.2 210.4





#53

t-1,3-Dichloropropene

Concen: 53.087 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 147289

Ion Ratio Lower Upper

75 100

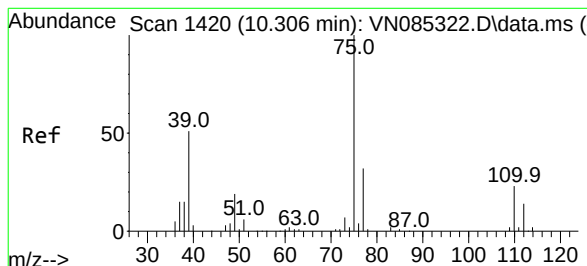
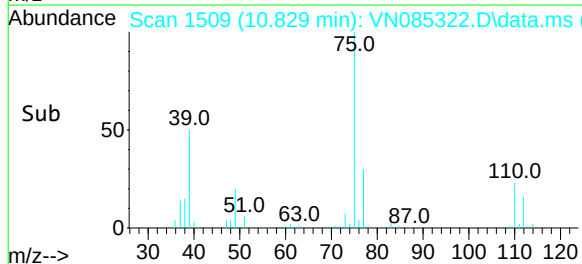
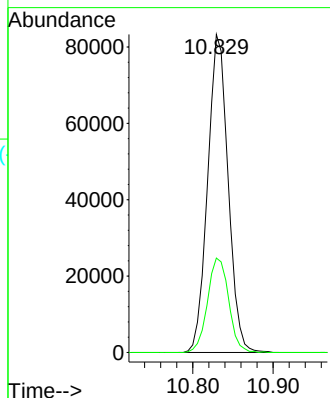
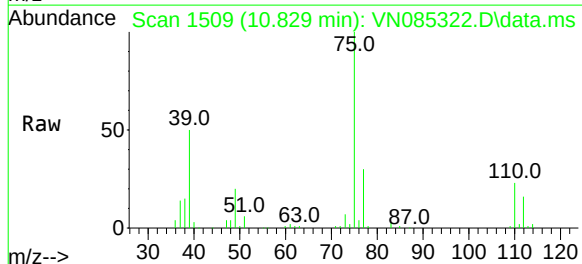
77 29.7 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#54

cis-1,3-Dichloropropene

Concen: 51.536 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

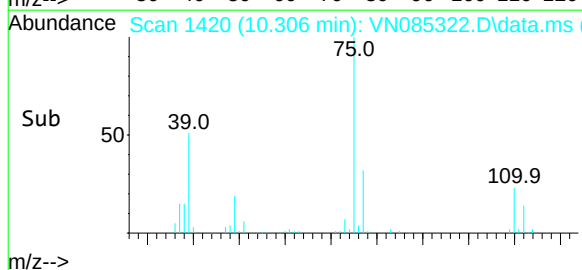
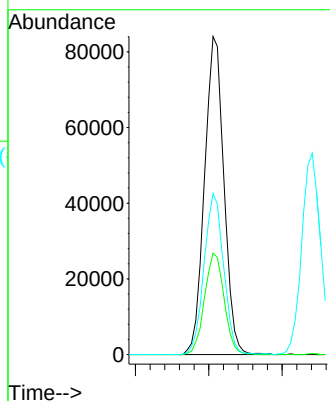
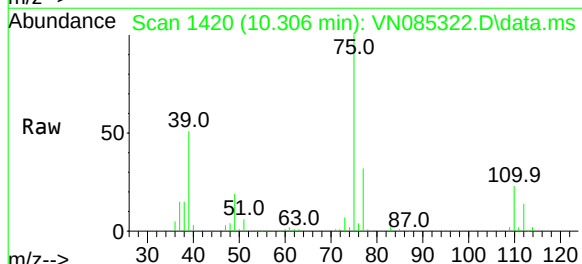
Tgt Ion: 75 Resp: 154618

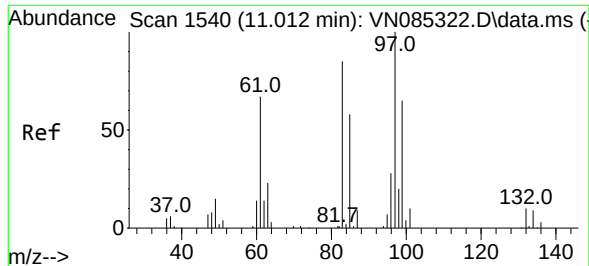
Ion Ratio Lower Upper

75 100

77 31.9 25.5 38.3

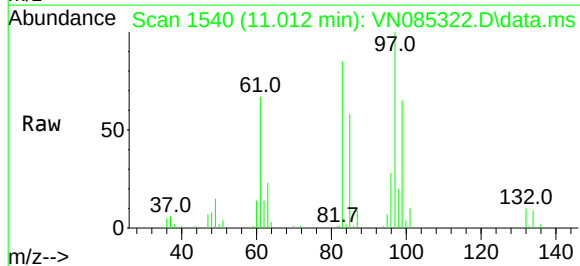
39 50.6 40.5 60.7





#55
1,1,2-Trichloroethane
Concen: 49.329 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

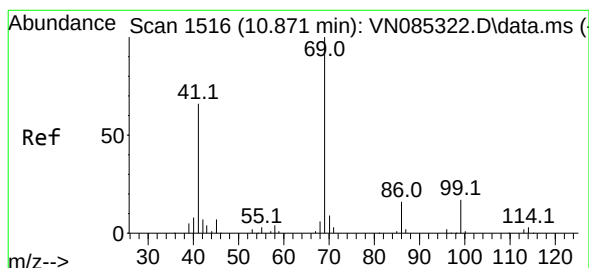
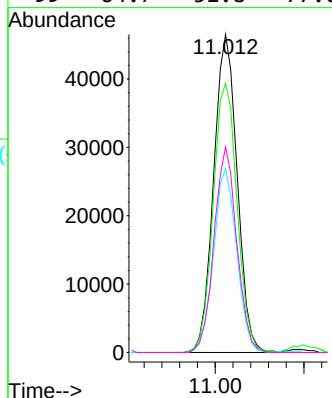
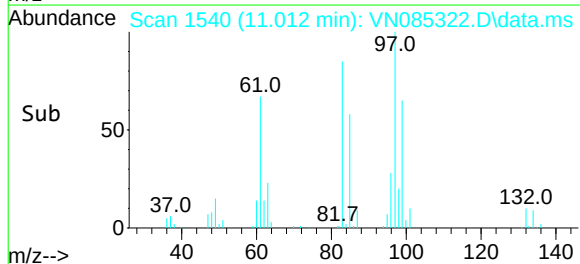
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 97 Resp: 85262
Ion Ratio Lower Upper
97 100
83 84.6 67.7 101.5
85 57.8 46.2 69.4
99 64.7 51.8 77.6

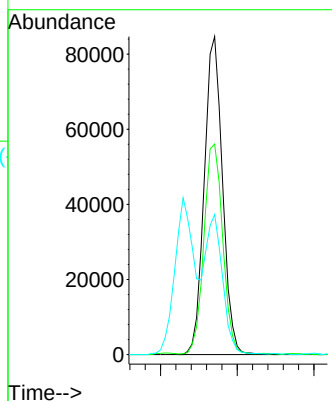
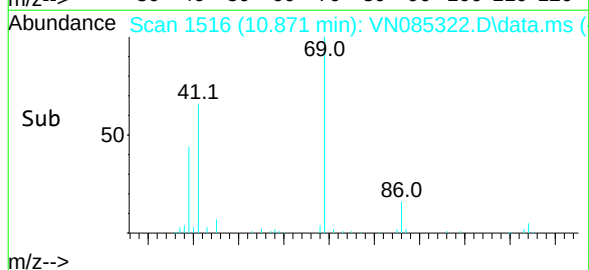
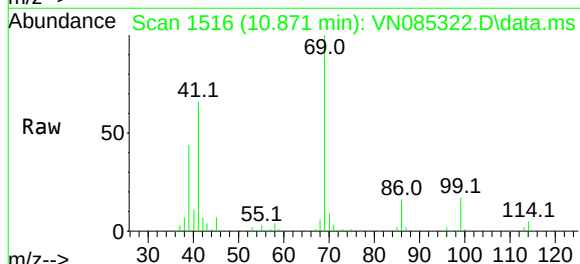
Manual Integrations
APPROVED

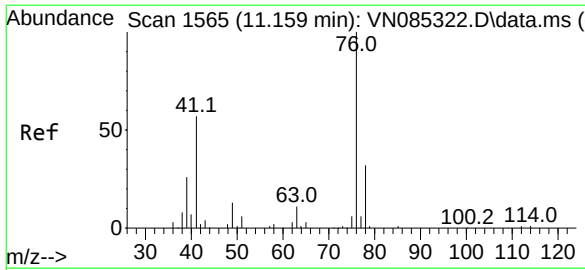
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#56
Ethyl methacrylate
Concen: 55.599 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 69 Resp: 139960
Ion Ratio Lower Upper
69 100
41 67.9 54.3 81.5
39 40.0 32.0 48.0





#57

1,3-Dichloropropane

Concen: 50.893 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 154391

Ion Ratio Lower Upper

76 100

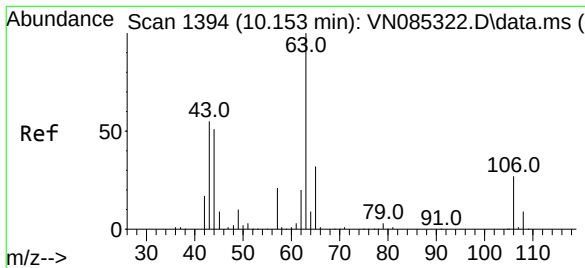
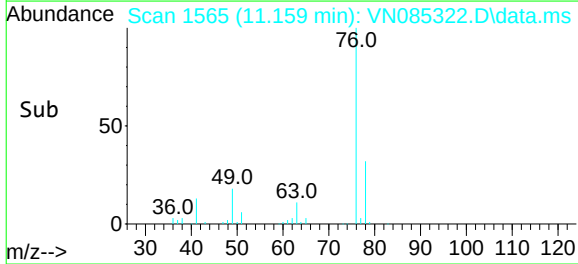
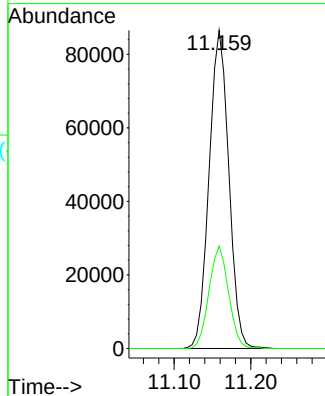
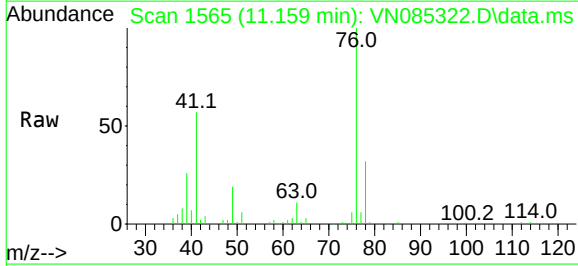
78 31.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#58

2-Chloroethyl Vinyl ether

Concen: 276.695 ug/l

RT: 10.153 min Scan# 1394

Delta R.T. 0.000 min

Lab File: VN085322.D

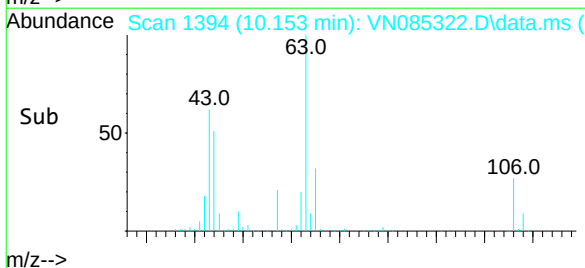
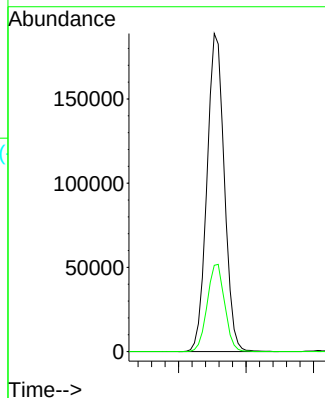
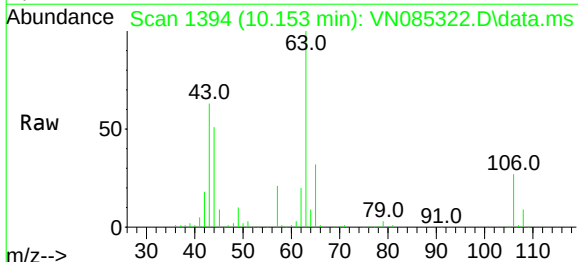
Acq: 27 Dec 2024 10:50

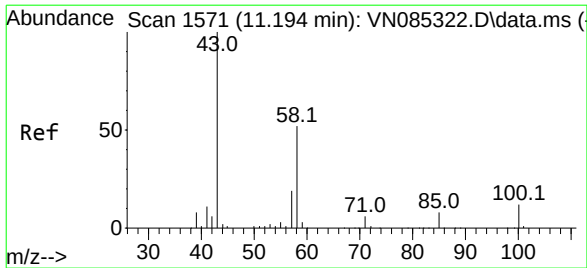
Tgt Ion: 63 Resp: 336991

Ion Ratio Lower Upper

63 100

106 27.6 22.1 33.1





#59

2-Hexanone

Concen: 263.862 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 428174

Ion Ratio Lower Upper

43 100

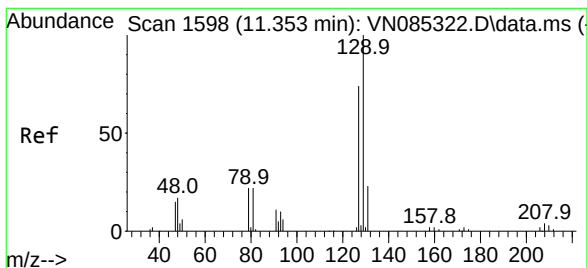
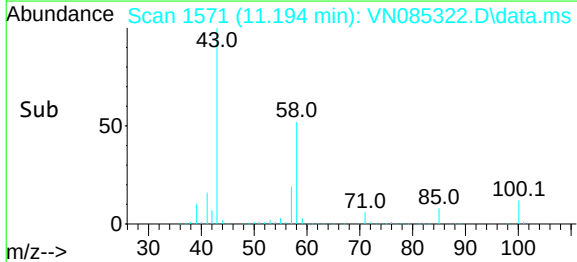
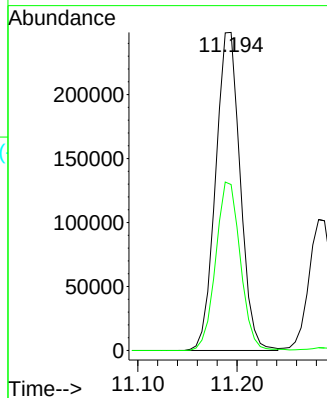
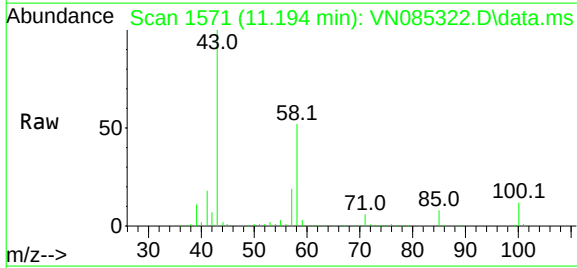
58 53.0 26.5 79.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#60

Dibromochloromethane

Concen: 52.999 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. 0.000 min

Lab File: VN085322.D

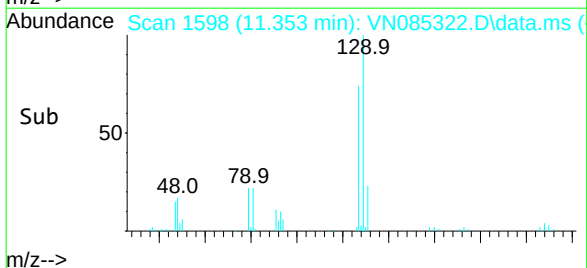
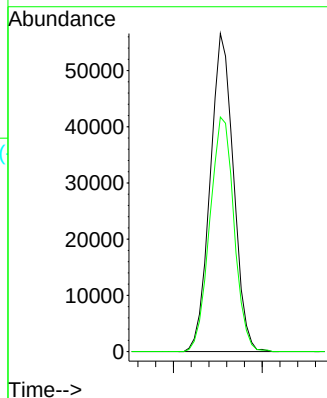
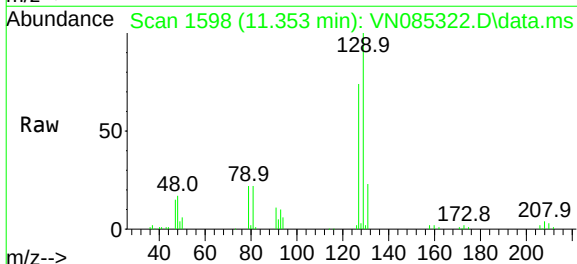
Acq: 27 Dec 2024 10:50

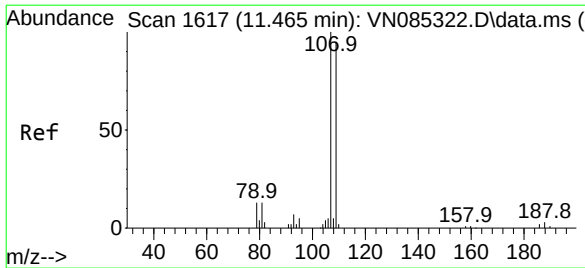
Tgt Ion:129 Resp: 103179

Ion Ratio Lower Upper

129 100

127 76.6 38.3 114.9





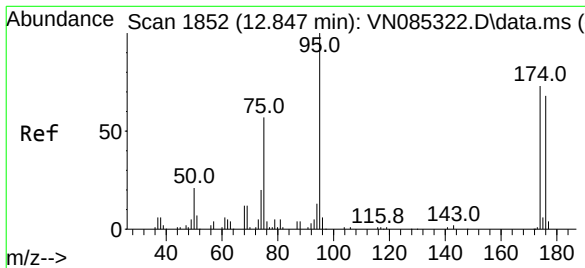
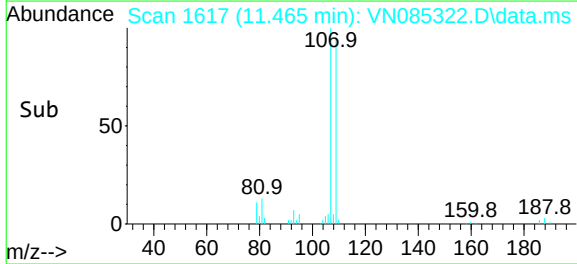
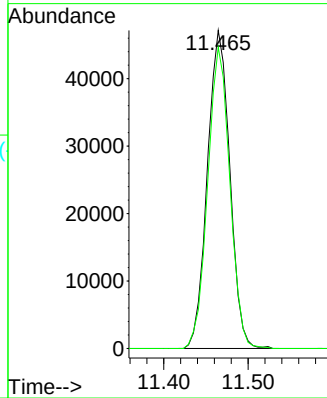
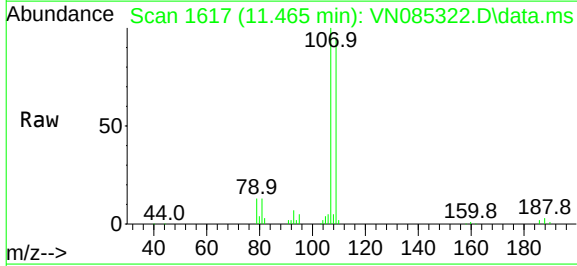
#61
1,2-Dibromoethane
Concen: 50.969 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 107 Resp: 87157
Ion Ratio Lower Upper
107 100
109 93.6 74.9 112.3

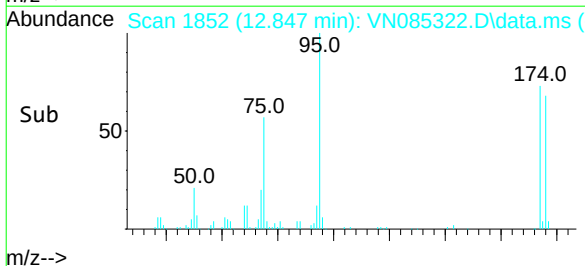
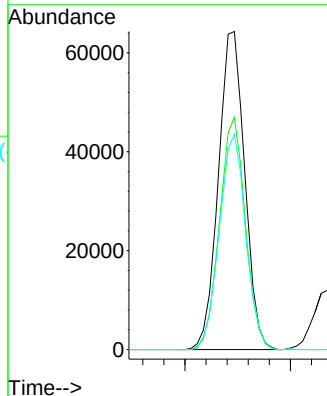
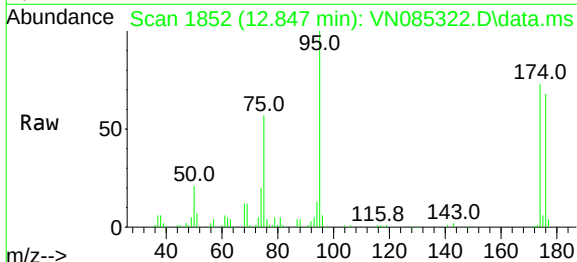
Manual Integrations
APPROVED

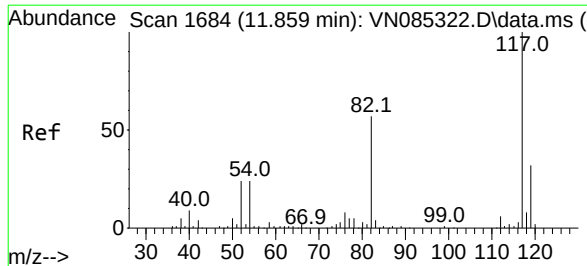
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#62
4-Bromofluorobenzene
Concen: 52.700 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 95 Resp: 111548
Ion Ratio Lower Upper
95 100
174 71.6 0.0 143.2
176 67.9 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 1684

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:117 Resp: 240680

Ion Ratio Lower Upper

117 100

82 57.1 45.7 68.5

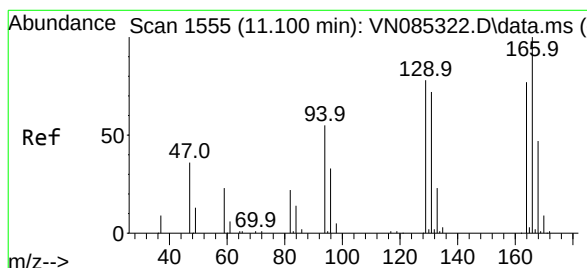
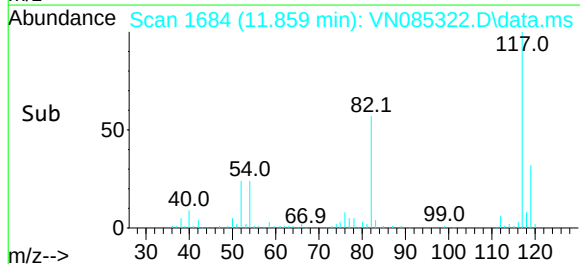
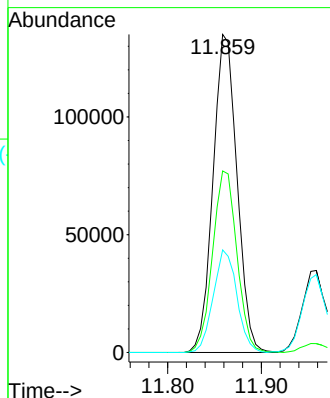
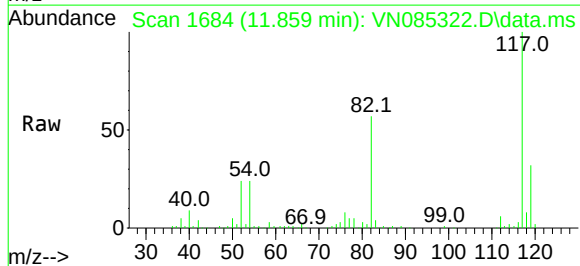
119 32.3 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#64

Tetrachloroethene

Concen: 49.270 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:164 Resp: 75140

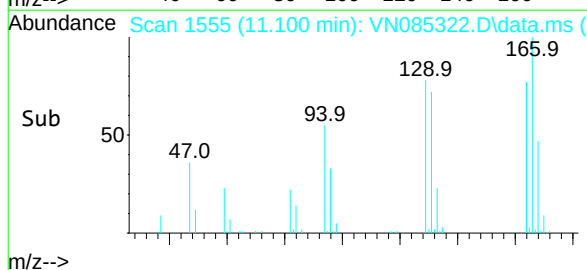
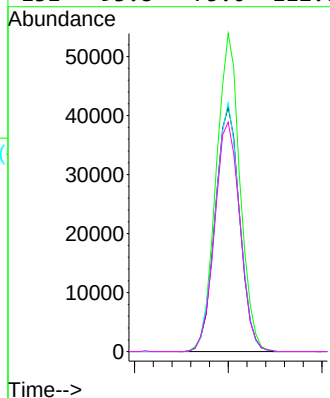
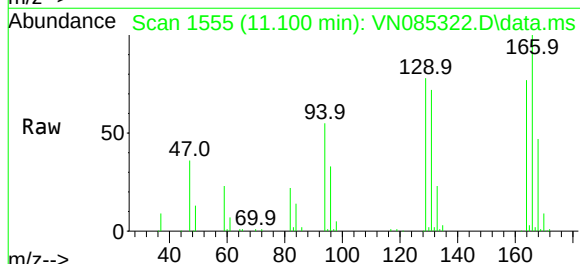
Ion Ratio Lower Upper

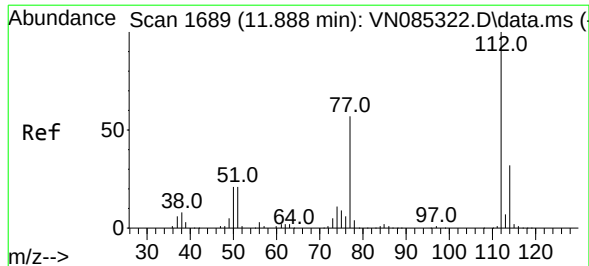
164 100

166 130.0 104.0 156.0

129 101.6 81.3 121.9

131 93.8 75.0 112.6





#65

Chlorobenzene

Concen: 48.550 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 252514

Ion Ratio Lower Upper

112 100

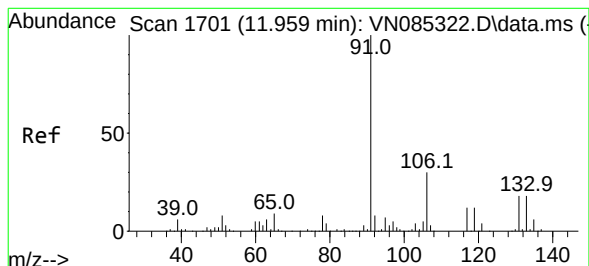
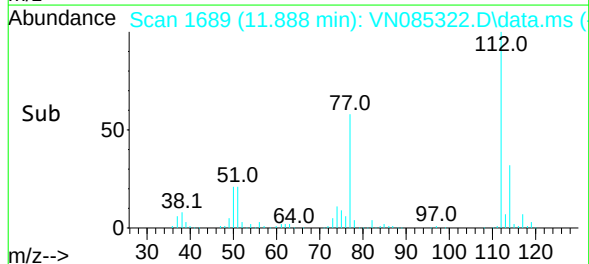
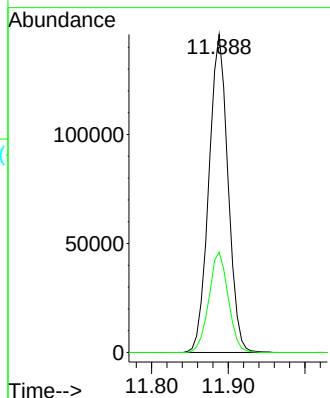
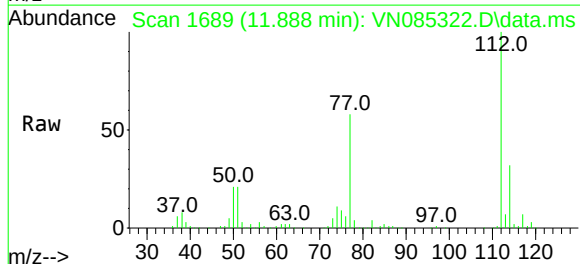
114 31.5 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 50.030 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

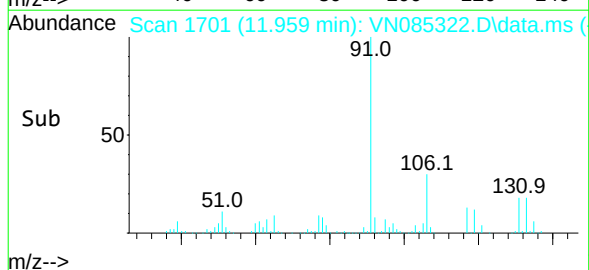
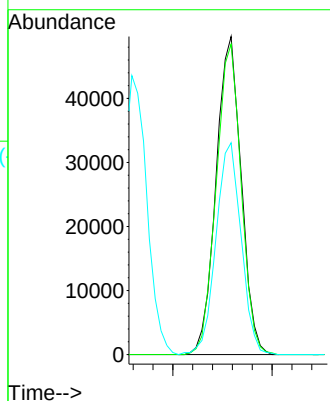
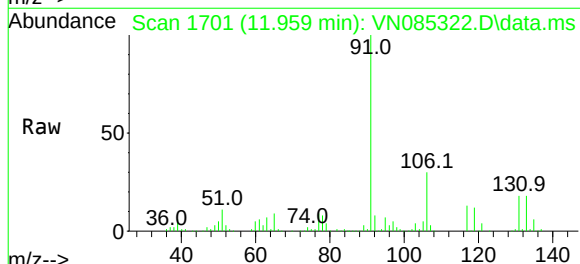
Tgt Ion:131 Resp: 87333

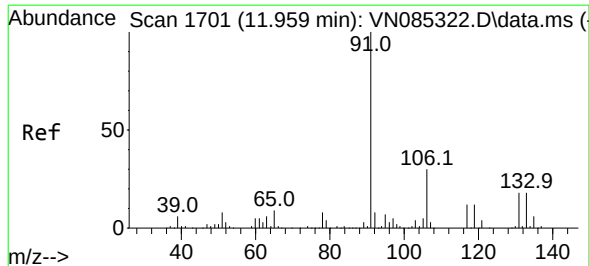
Ion Ratio Lower Upper

131 100

133 96.6 48.3 144.9

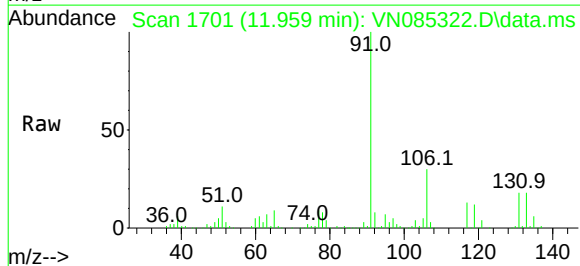
119 66.7 33.4 100.1





#67
Ethyl Benzene
Concen: 52.228 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

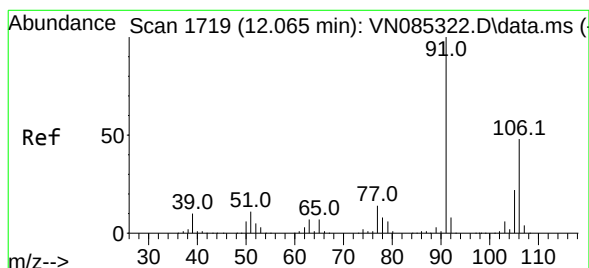
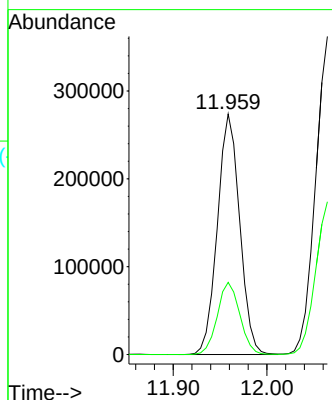
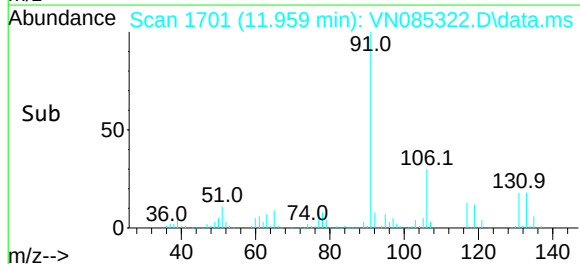
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 91 Resp: 451752
Ion Ratio Lower Upper
91 100
106 30.0 24.0 36.0

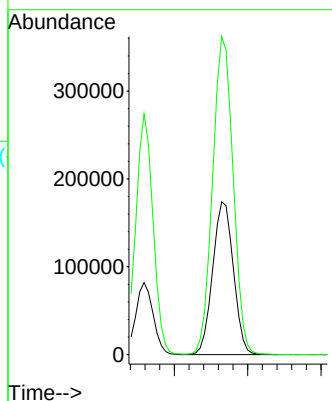
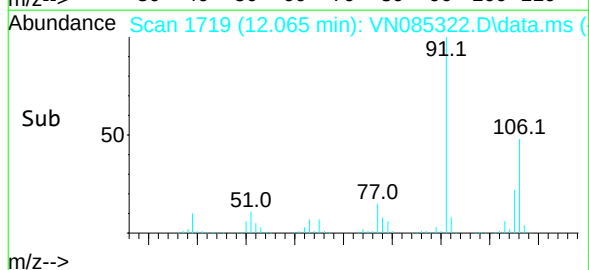
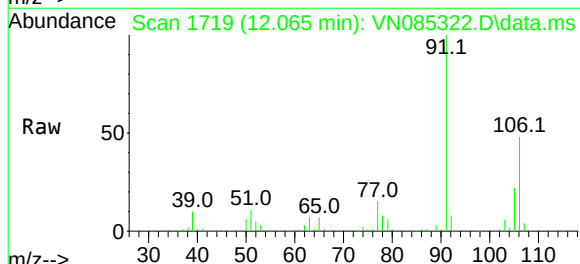
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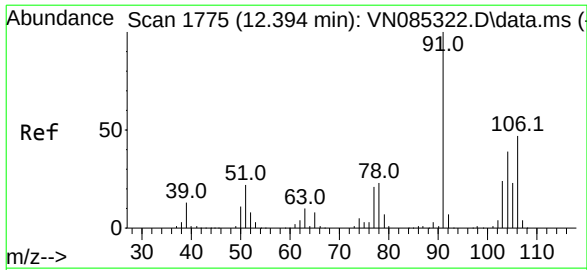
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#68
m/p-Xylenes
Concen: 107.860 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion:106 Resp: 341420
Ion Ratio Lower Upper
106 100
91 206.5 165.2 247.8





#69

o-Xylene

Concen: 54.121 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 165724

Ion Ratio Lower Upper

106 100

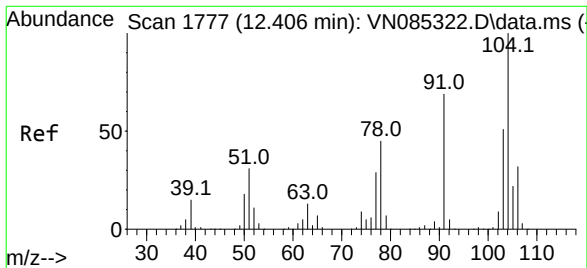
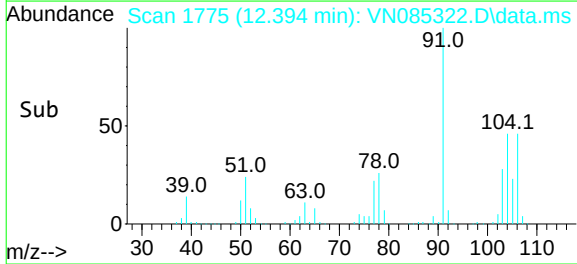
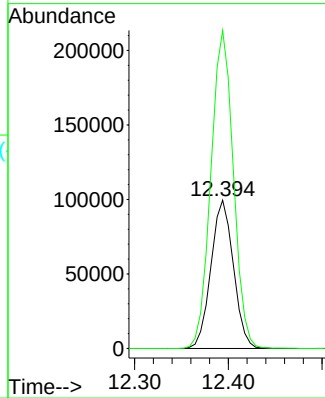
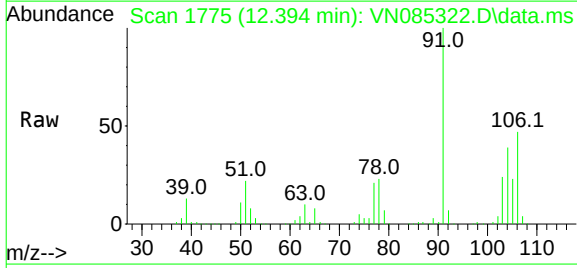
91 214.5 107.3 321.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#70

Styrene

Concen: 55.616 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

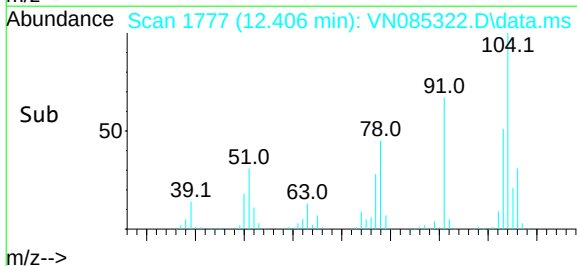
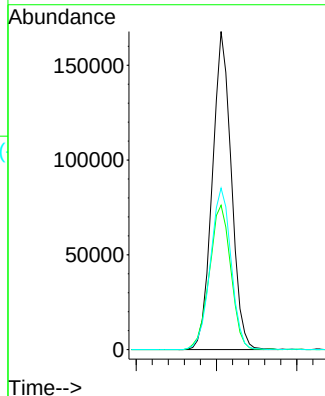
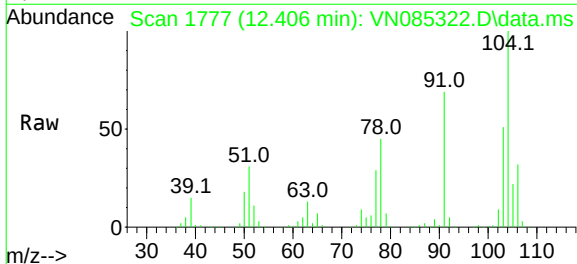
Tgt Ion:104 Resp: 276012

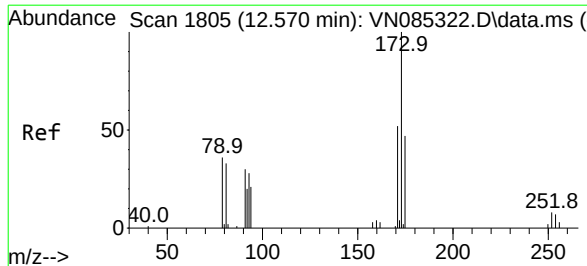
Ion Ratio Lower Upper

104 100

78 50.9 40.7 61.1

103 55.1 44.1 66.1





#71

Bromoform

Concen: 52.330 ug/l

RT: 12.570 min Scan# 1805

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:173 Resp: 63268

Ion Ratio Lower Upper

173 100

175 48.9 24.4 73.4

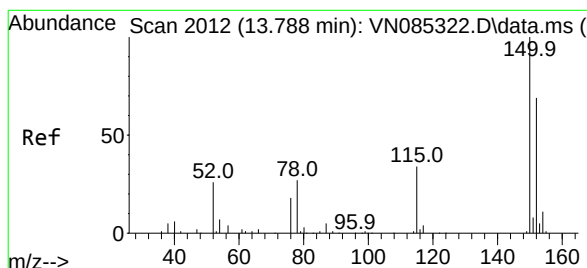
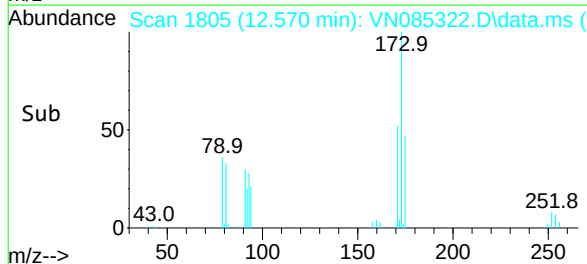
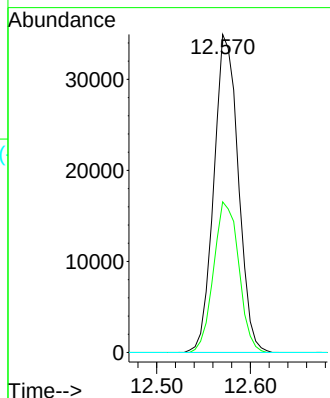
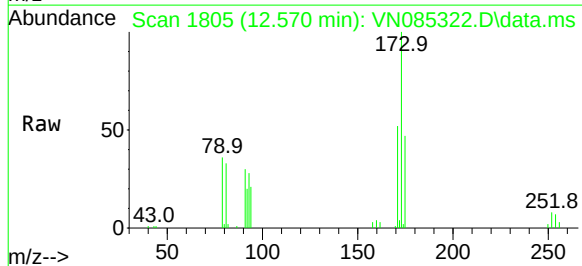
254 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

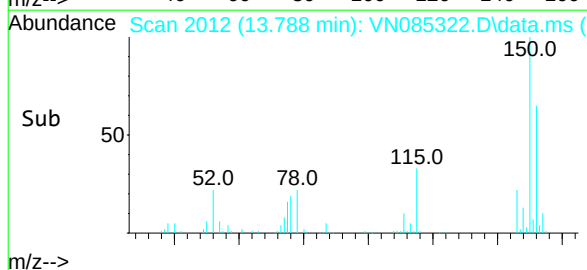
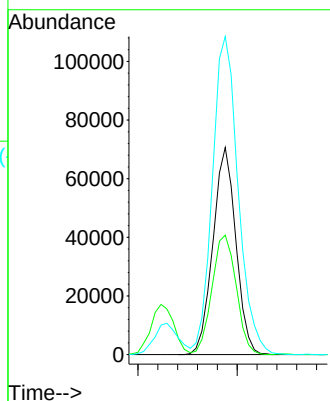
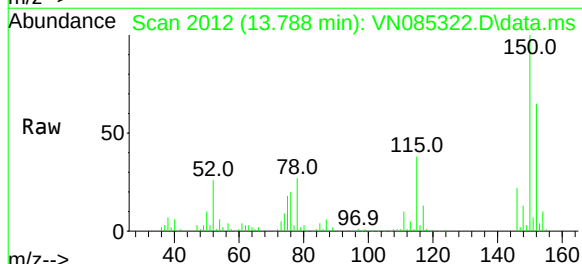
Tgt Ion:152 Resp: 113462

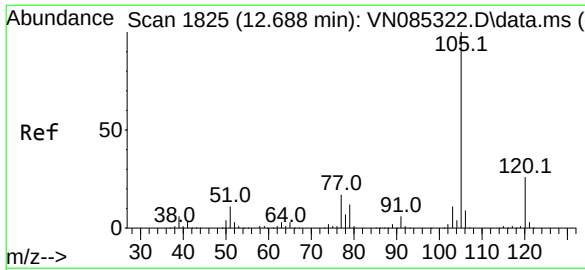
Ion Ratio Lower Upper

152 100

115 60.9 30.4 91.3

150 172.5 0.0 345.0





#73

Isopropylbenzene

Concen: 51.888 ug/l

RT: 12.688 min Scan# 1825

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 105 Resp: 423362

Ion Ratio Lower Upper

105 100

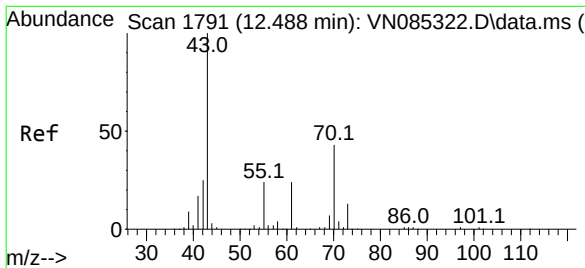
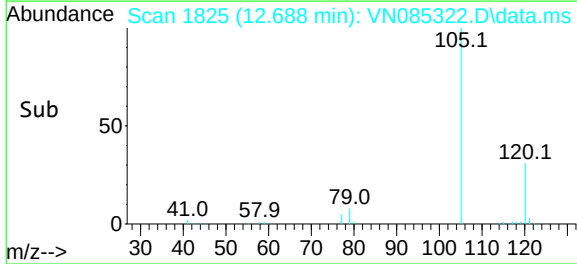
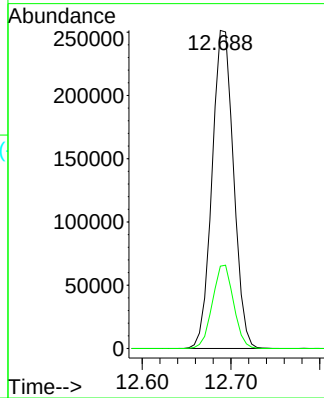
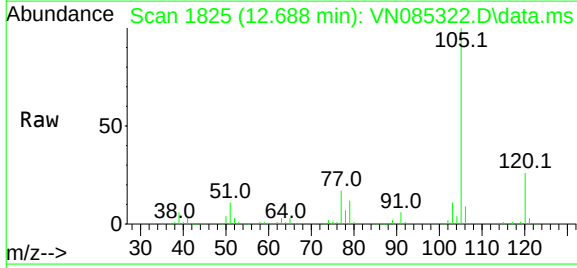
120 25.7 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#74

N-ethyl acetate

Concen: 52.669 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion: 43 Resp: 183943

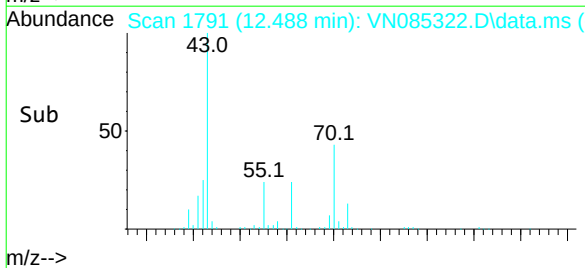
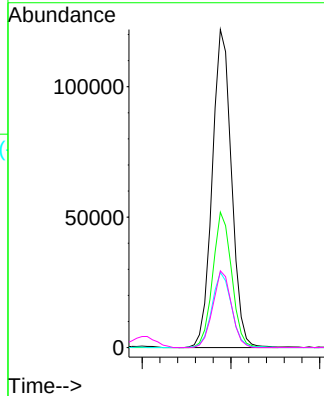
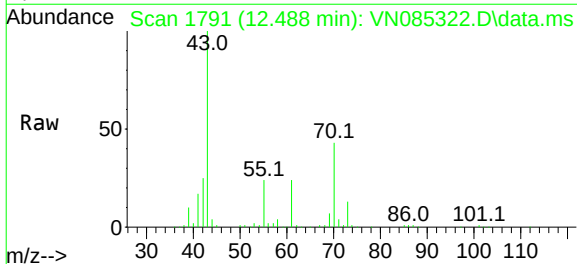
Ion Ratio Lower Upper

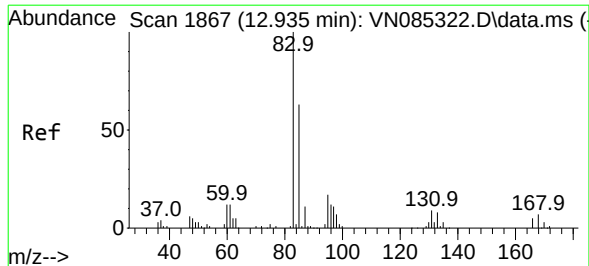
43 100

70 41.7 33.4 50.0

55 24.0 19.2 28.8

61 23.3 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 46.441 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085322.D

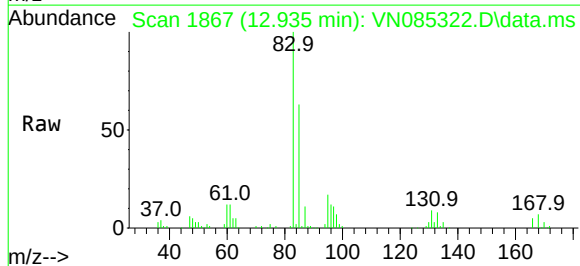
Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050



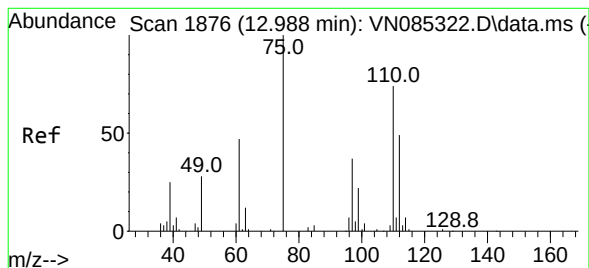
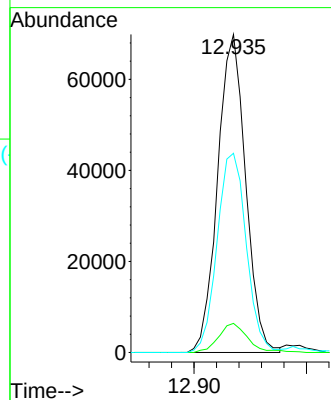
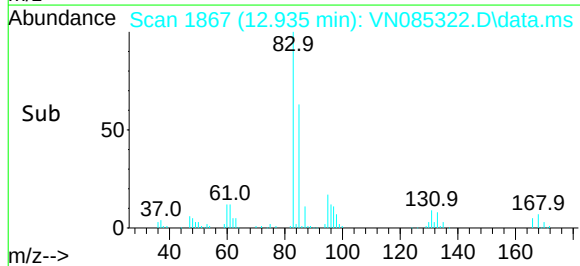
Tgt Ion:	83	Resp:	120681
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	65.3	32.6	98.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#76

1,2,3-Trichloropropane

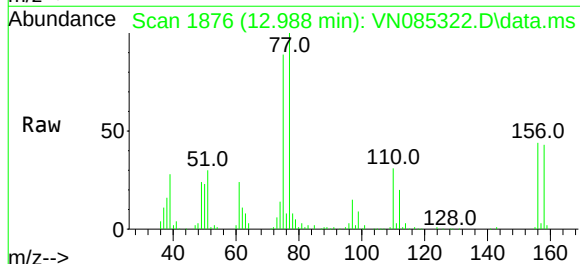
Concen: 43.170 ug/l m

RT: 12.988 min Scan# 1876

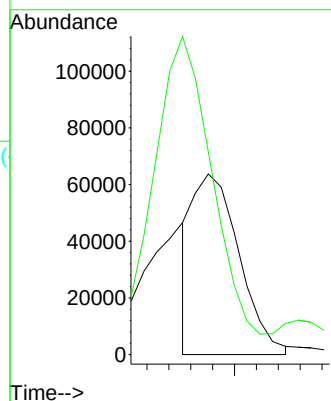
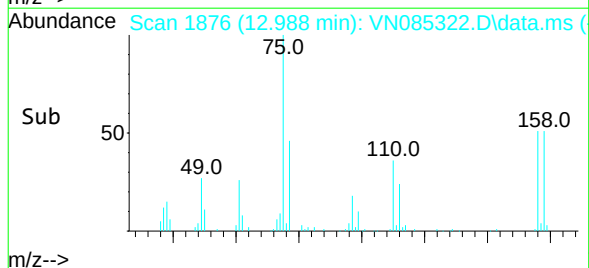
Delta R.T. 0.000 min

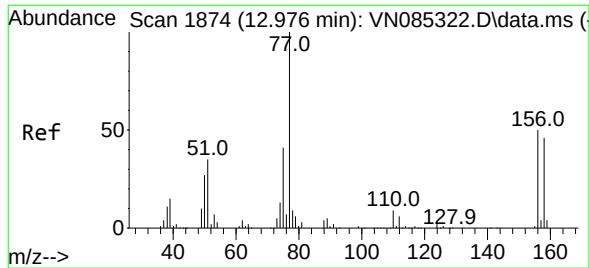
Lab File: VN085322.D

Acq: 27 Dec 2024 10:50



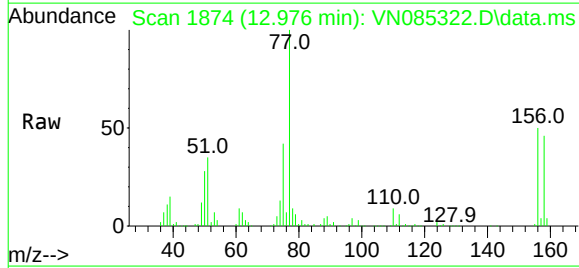
Tgt Ion:	75	Resp:	94097
Ion	Ratio	Lower	Upper
75	100		
77	230.5	98.1	294.3





#77
Bromobenzene
Concen: 47.058 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

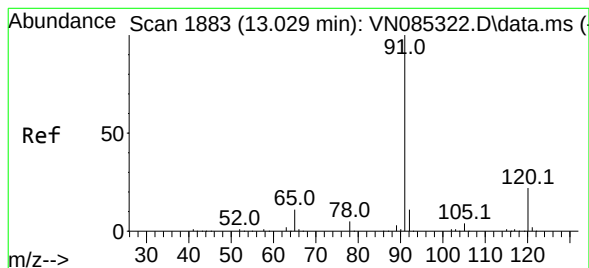
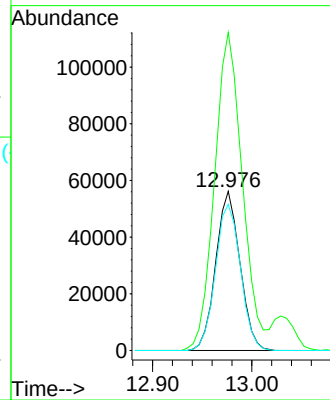
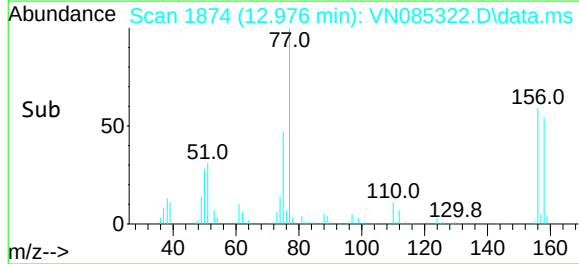
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 156 Resp: 95126
Ion Ratio Lower Upper
156 100
77 228.0 114.0 342.0
158 95.2 47.6 142.8

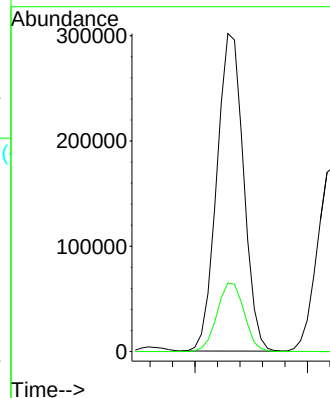
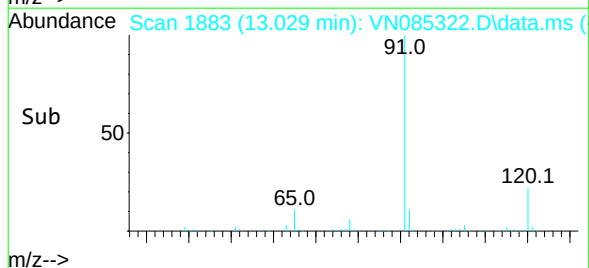
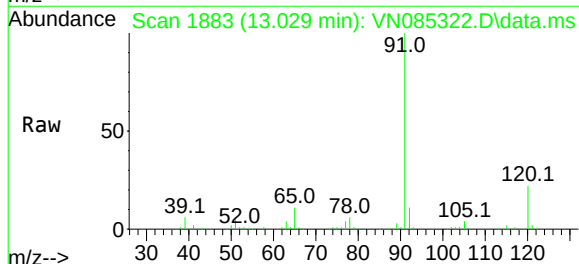
Manual Integrations
APPROVED

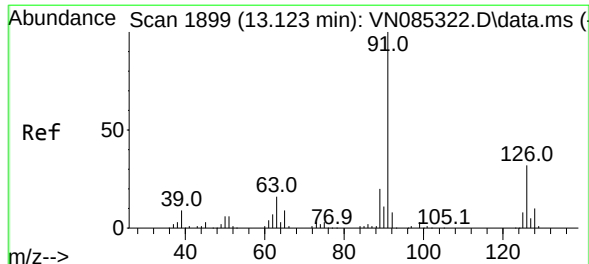
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#78
n-propylbenzene
Concen: 52.403 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion: 91 Resp: 498392
Ion Ratio Lower Upper
91 100
120 21.9 10.9 32.9





#79

2-Chlorotoluene

Concen: 49.970 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 299107

Ion Ratio Lower Upper

91 100

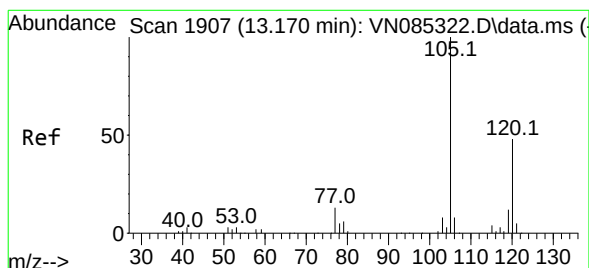
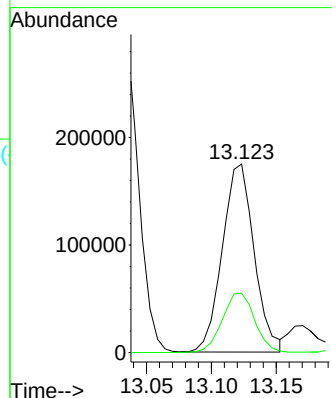
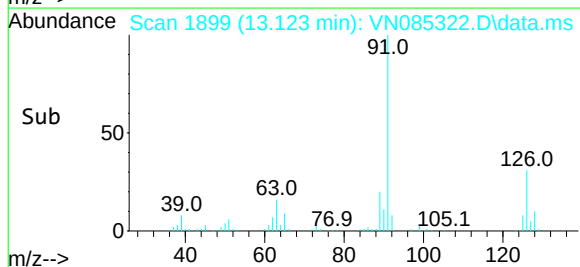
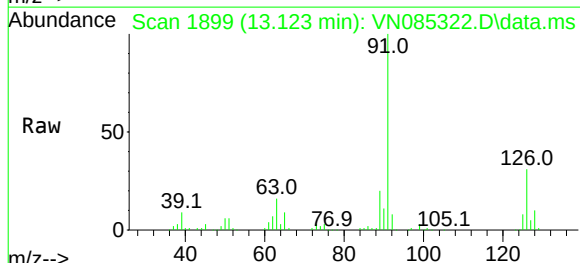
126 32.0 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#80

1,3,5-Trimethylbenzene

Concen: 52.709 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085322.D

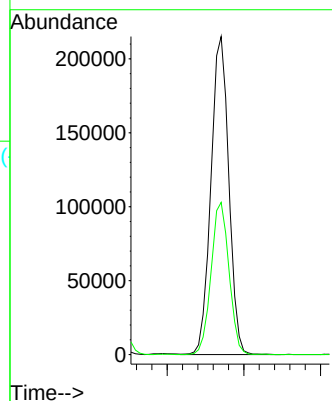
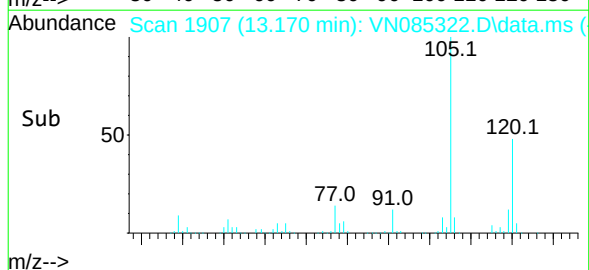
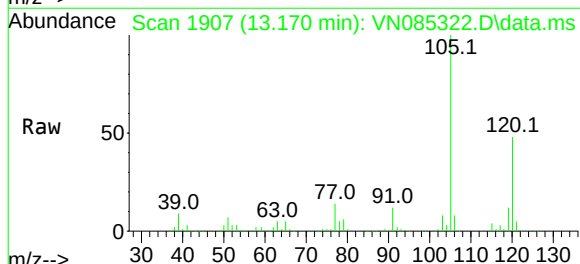
Acq: 27 Dec 2024 10:50

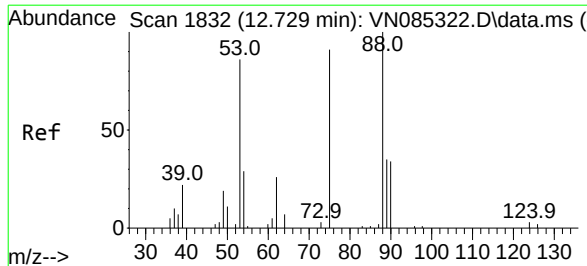
Tgt Ion:105 Resp: 347857

Ion Ratio Lower Upper

105 100

120 48.0 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 51.950 ug/l m

RT: 12.729 min Scan# 1832

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

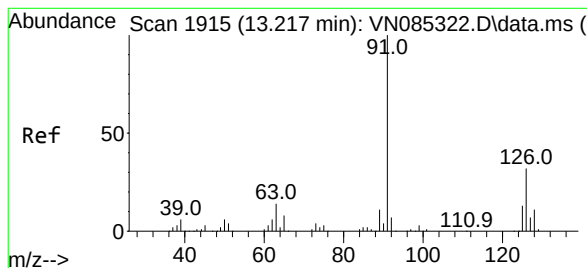
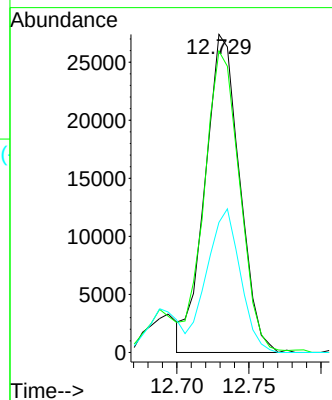
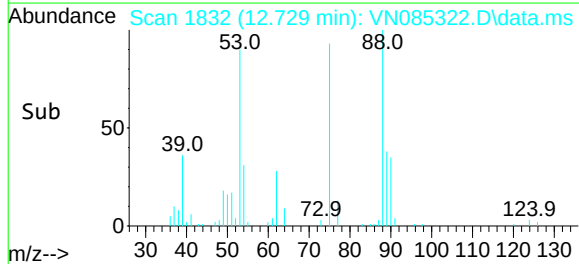
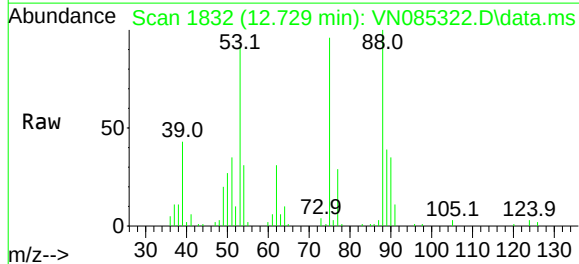
VSTDICCC050

Tgt Ion:	75	Resp:	45749
Ion	Ratio	Lower	Upper
75	100		
53	97.7	80.0	120.0
89	43.8	35.8	53.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#82

4-Chlorotoluene

Concen: 49.717 ug/l

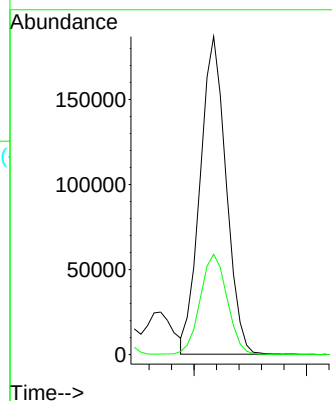
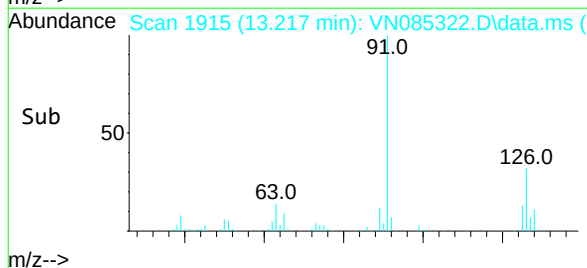
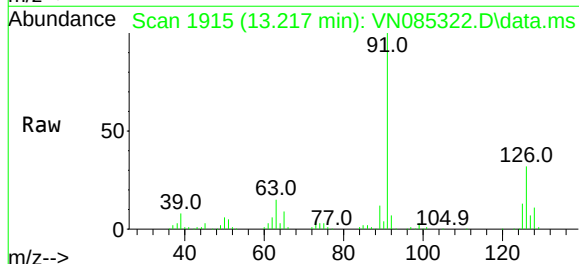
RT: 13.217 min Scan# 1915

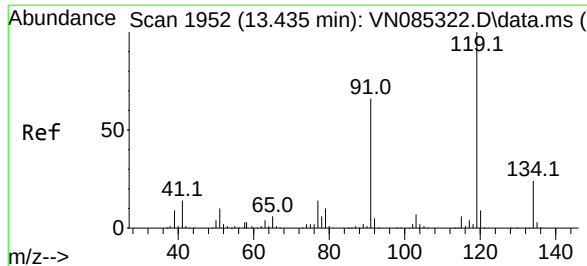
Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Tgt Ion:	91	Resp:	299712
Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.4





#83

tert-Butylbenzene

Concen: 51.541 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 294653

Ion Ratio Lower Upper

119 100

91 67.2 33.6 100.8

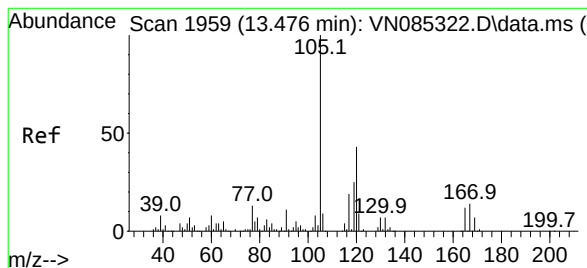
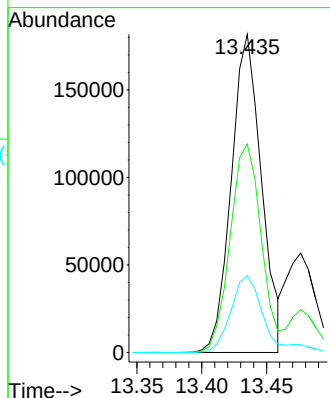
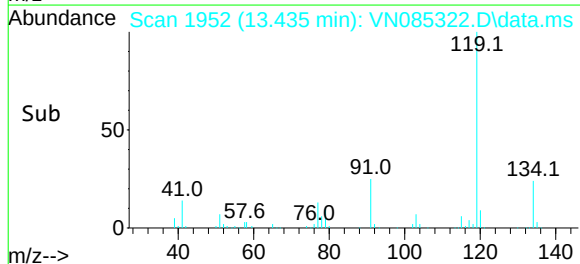
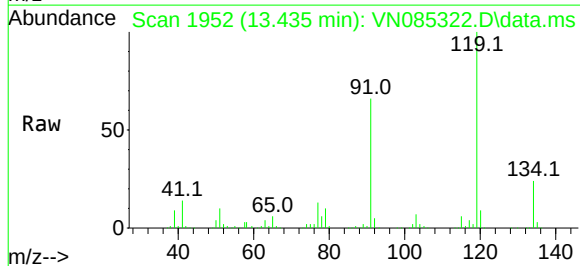
134 26.5 13.3 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#84

1,2,4-Trimethylbenzene

Concen: 53.875 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN085322.D

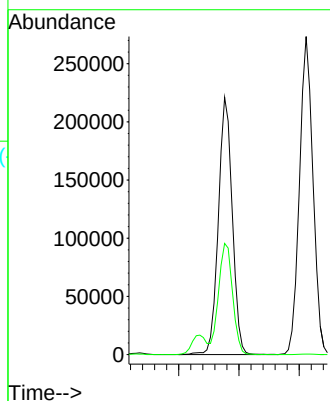
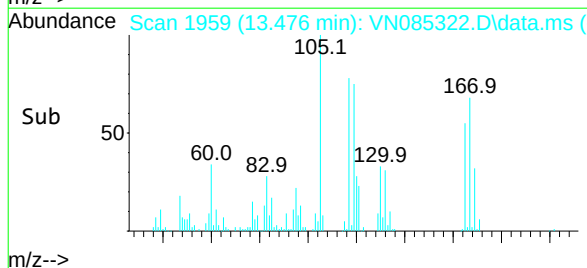
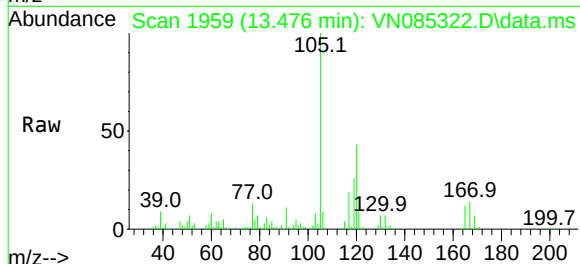
Acq: 27 Dec 2024 10:50

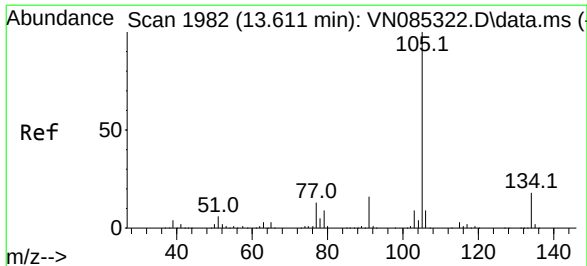
Tgt Ion:105 Resp: 354037

Ion Ratio Lower Upper

105 100

120 43.4 21.7 65.1





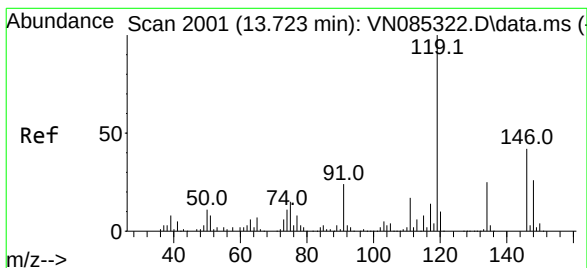
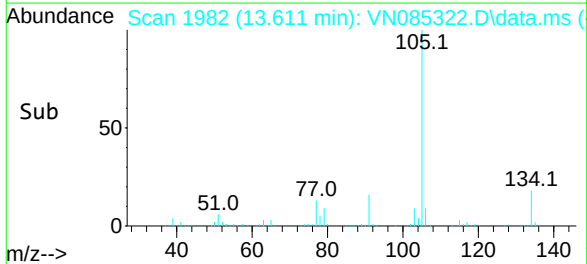
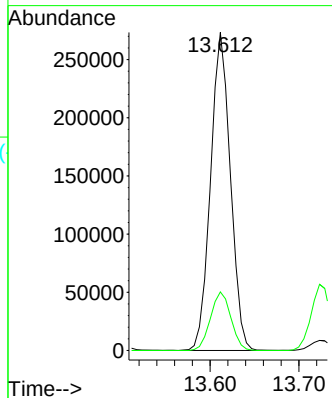
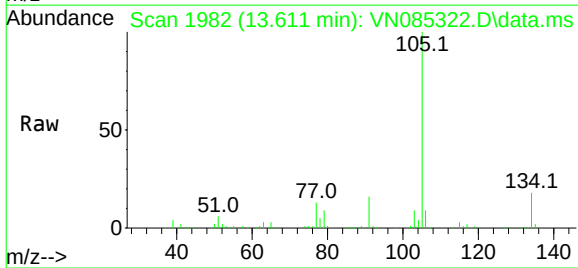
#85
sec-Butylbenzene
Concen: 53.476 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 424353
Ion Ratio Lower Upper
105 100
134 18.9 9.4 28.3

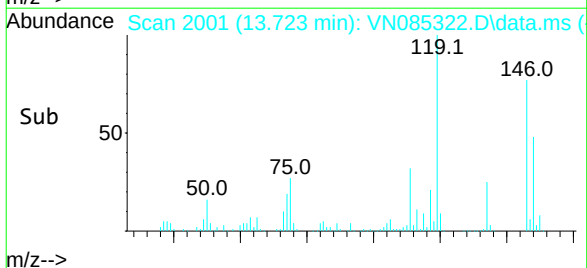
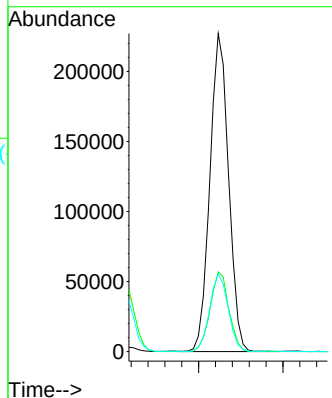
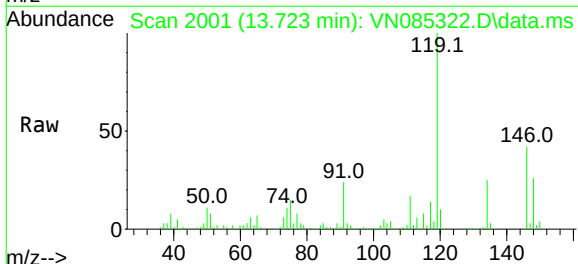
Manual Integrations
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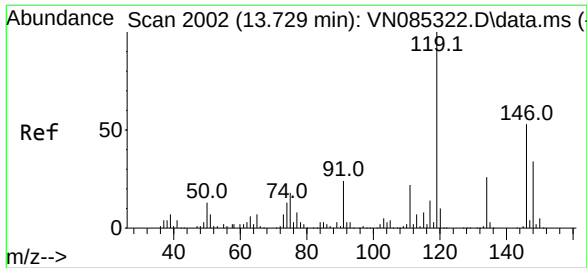
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#86
p-Isopropyltoluene
Concen: 49.276 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion:119 Resp: 349527
Ion Ratio Lower Upper
119 100
134 25.0 12.5 37.5
91 24.3 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 48.928 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 179301

Ion Ratio Lower Upper

146 100

111 42.6 21.3 63.9

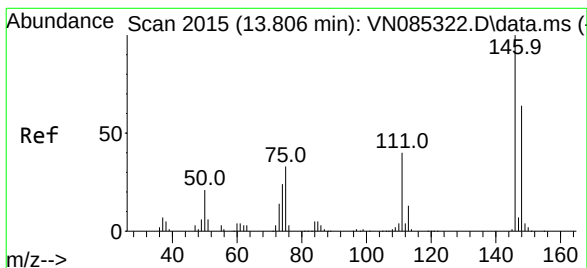
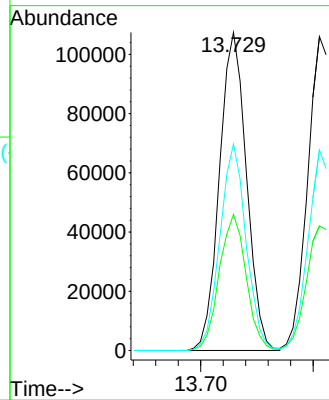
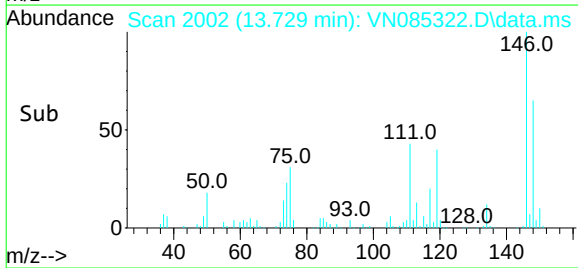
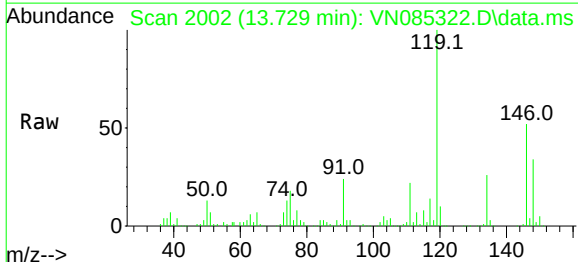
148 63.0 31.5 94.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#88

1,4-Dichlorobenzene

Concen: 47.253 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

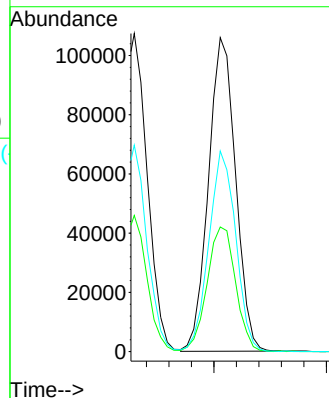
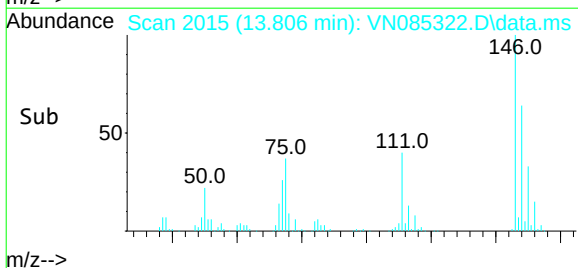
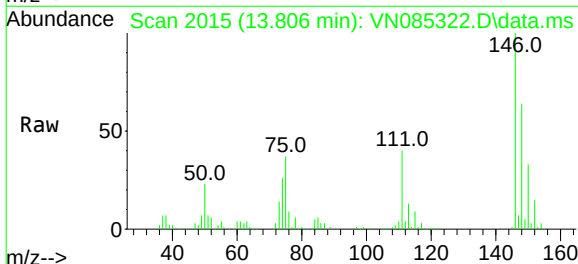
Tgt Ion:146 Resp: 177873

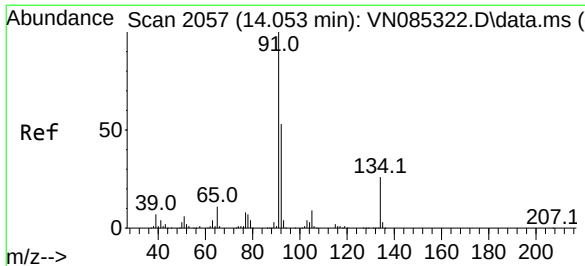
Ion Ratio Lower Upper

146 100

111 41.7 20.8 62.5

148 63.4 31.7 95.1





#89

n-Butylbenzene

Concen: 53.178 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 309010

Ion Ratio Lower Upper

91 100

92 52.0 26.0 78.0

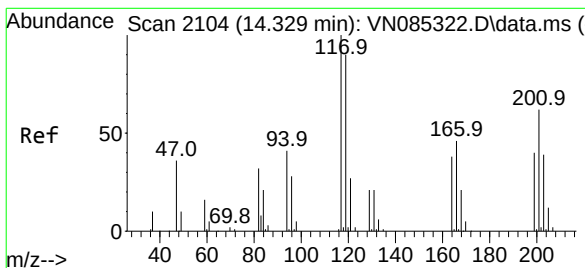
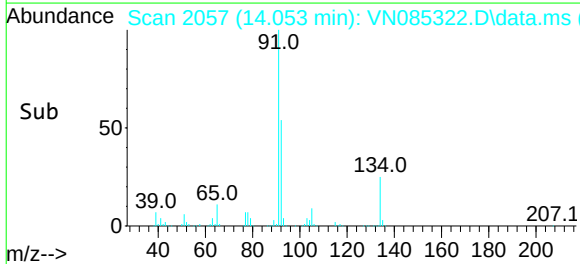
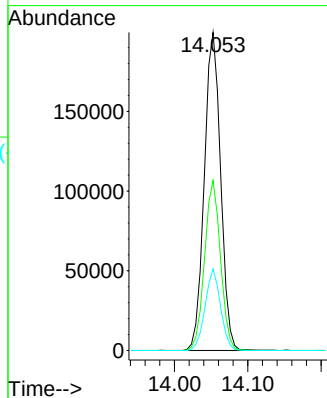
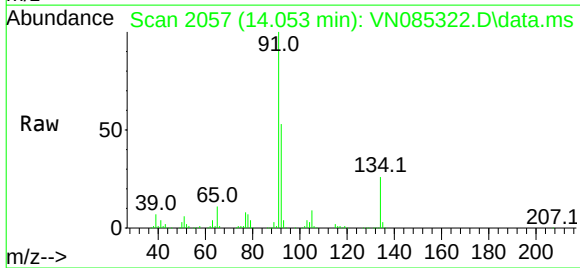
134 24.2 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#90

Hexachloroethane

Concen: 51.976 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN085322.D

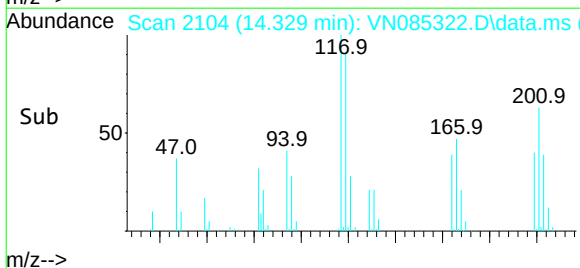
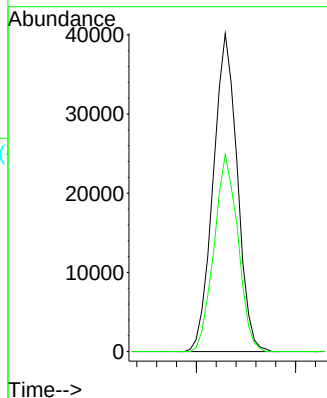
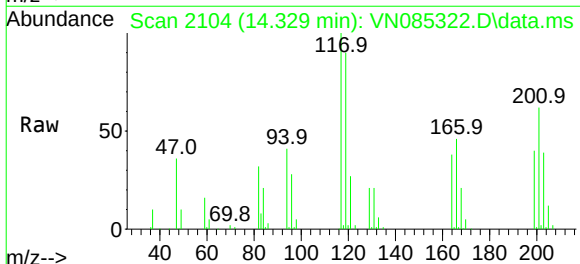
Acq: 27 Dec 2024 10:50

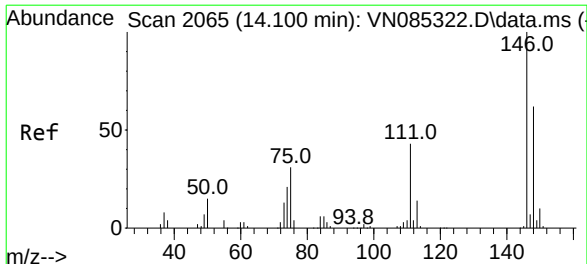
Tgt Ion:117 Resp: 67607

Ion Ratio Lower Upper

117 100

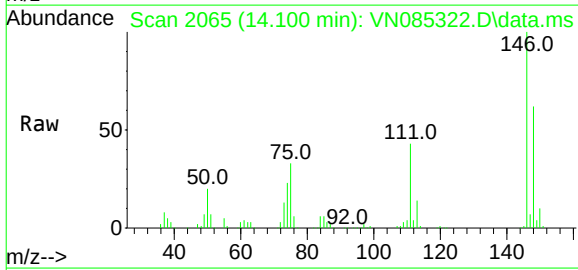
201 61.4 30.7 92.1





#91
1,2-Dichlorobenzene
Concen: 49.173 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

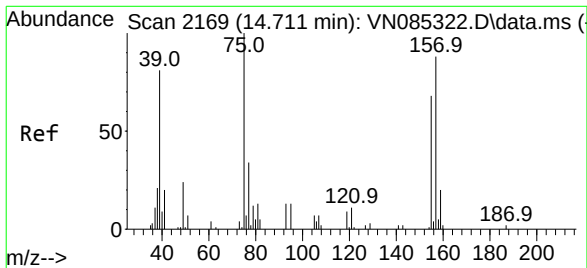
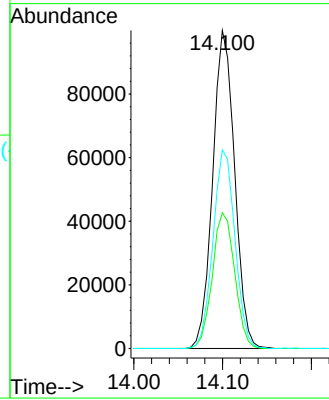
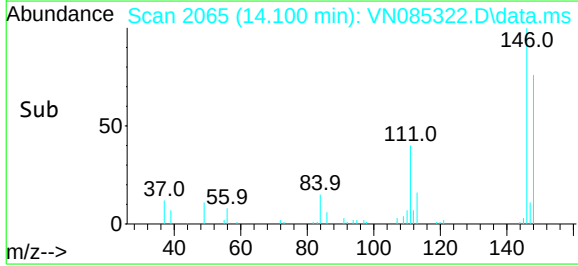
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion:	146	Resp:	171657
Ion Ratio	Lower	Upper	
146	100		
111	43.5	21.8	65.3
148	62.8	31.4	94.2

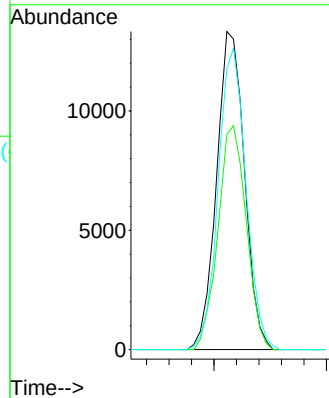
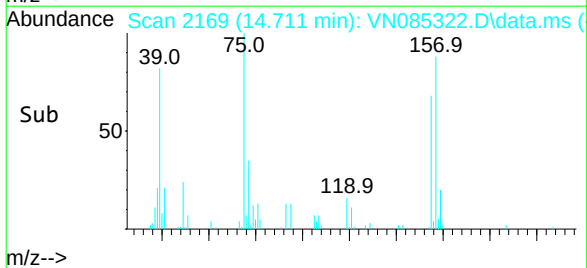
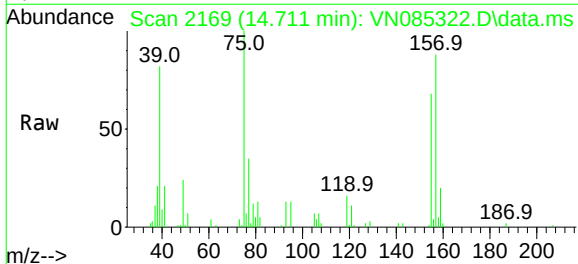
Manual Integrations
APPROVED

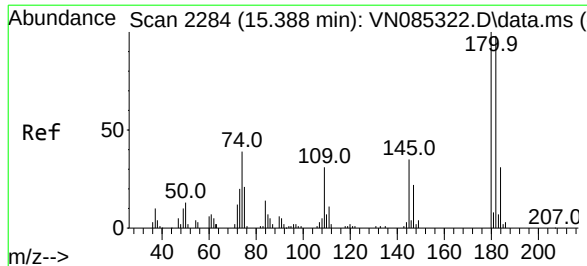
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.627 ug/l
RT: 14.711 min Scan# 2169
Delta R.T. 0.000 min
Lab File: VN085322.D
Acq: 27 Dec 2024 10:50

Tgt Ion:	75	Resp:	22952
Ion Ratio	Lower	Upper	
75	100		
155	71.3	35.6	106.9
157	94.0	47.0	141.0





#93

1,2,4-Trichlorobenzene

Concen: 49.570 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 86363

Ion Ratio Lower Upper

180 100

182 94.4 47.2 141.6

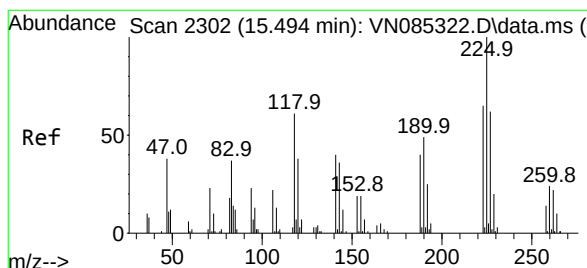
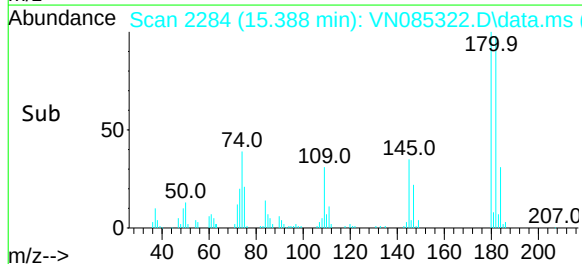
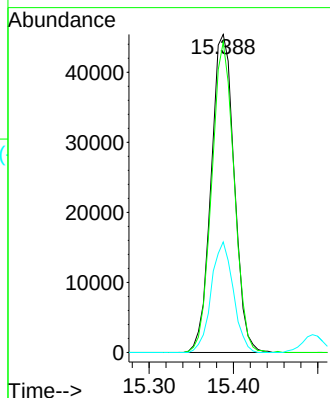
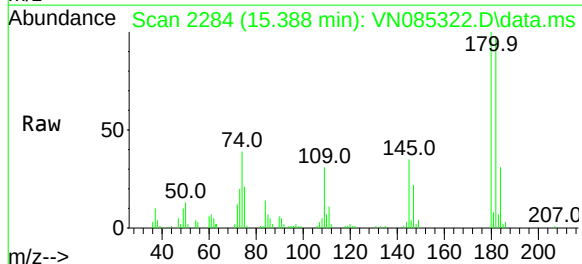
145 33.2 16.6 49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#94

Hexachlorobutadiene

Concen: 44.509 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

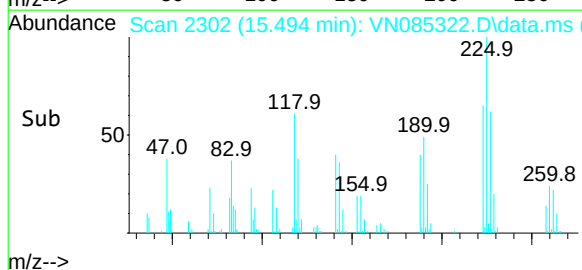
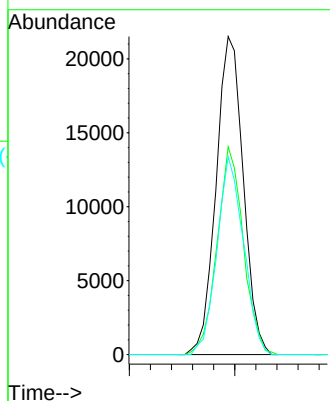
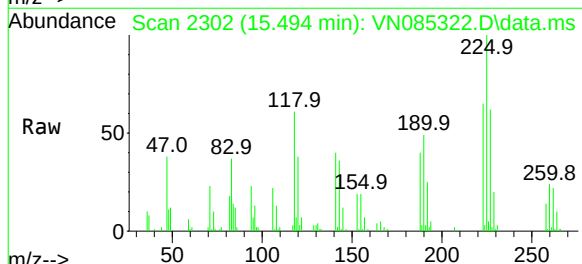
Tgt Ion:225 Resp: 38529

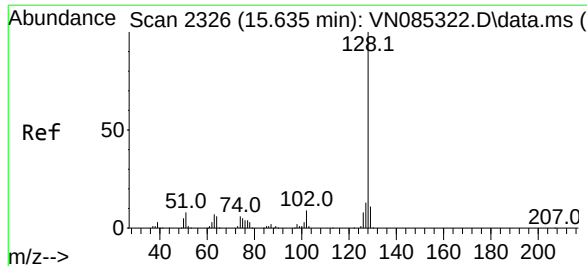
Ion Ratio Lower Upper

225 100

223 63.1 31.6 94.7

227 60.7 30.3 91.0





#95

Naphthalene

Concen: 48.560 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:128 Resp: 286887

Ion Ratio Lower Upper

128 100

127 13.3 10.6 16.0

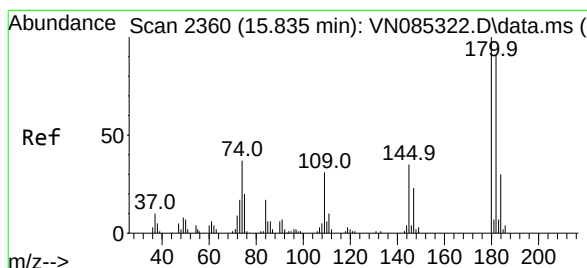
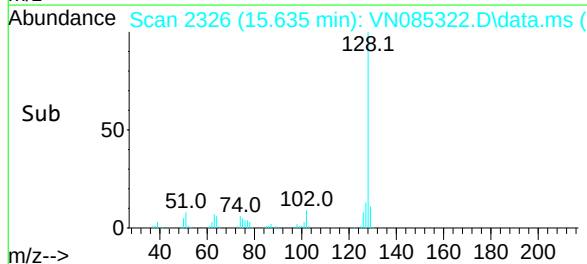
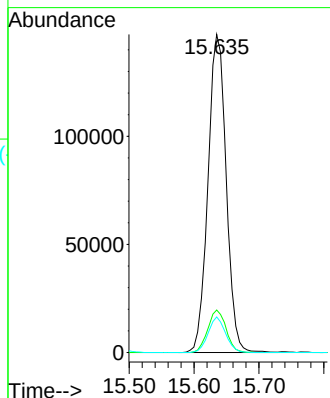
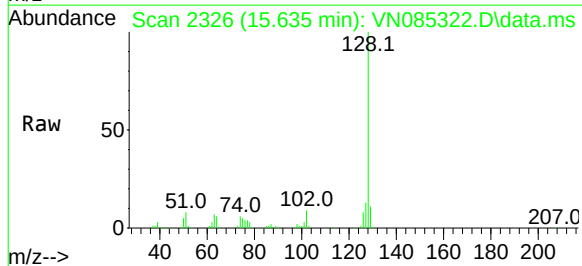
129 10.6 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#96

1,2,3-Trichlorobenzene

Concen: 48.618 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085322.D

Acq: 27 Dec 2024 10:50

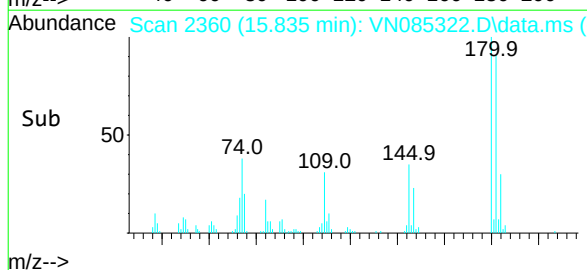
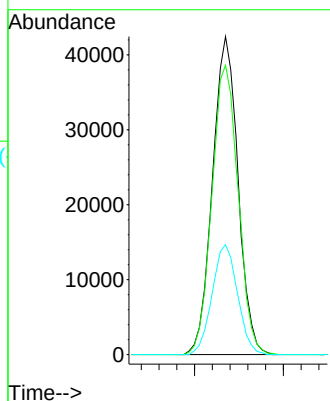
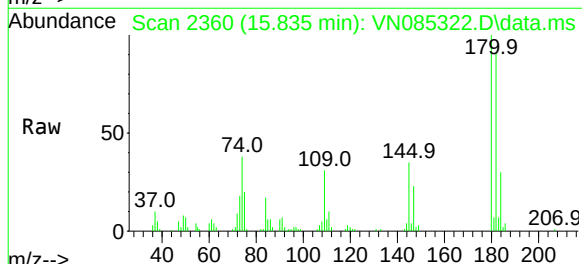
Tgt Ion:180 Resp: 84633

Ion Ratio Lower Upper

180 100

182 93.6 46.8 140.4

145 34.4 17.2 51.6





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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WEST04

Lab Code: CHEM Case No.: P5380 SAS No.: P5380 SDG No.: P5380

Instrument ID: MSVOA_N Calibration Date/Time: 12/27/2024 19:54

Lab File ID: VN085337.D Init. Calib. Date(s): 12/27/2024 12/27/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:26 12:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.804	0.723		-10.07	50
1,1-Dichloroethene	0.556	0.532		-4.32	50
2-Butanone	0.364	0.383		5.22	50
Carbon Tetrachloride	0.498	0.476		-4.42	50
Chloroform	1.181	1.084		-8.21	50
Benzene	1.381	1.318		-4.56	50
1,2-Dichloroethane	0.495	0.465		-6.06	50
Trichloroethene	0.327	0.295		-9.79	50
Tetrachloroethene	0.317	0.281		-11.36	50
Chlorobenzene	1.080	1.022	0.3	-5.37	50
1,2-Dichloroethane-d4	0.713	0.722		1.26	50
Dibromofluoromethane	0.312	0.320		2.56	50
Toluene-d8	1.145	1.166		1.83	50
4-Bromofluorobenzene	0.380	0.390		2.63	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085337.D
 Acq On : 27 Dec 2024 19:54
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:46:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	169838	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304765	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	256130	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119158	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.576	65	122557	50.594	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	101.180%
35) Dibromofluoromethane	8.165	113	97559	51.312	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.620%
50) Toluene-d8	10.565	98	355381	50.937	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.880%
62) 4-Bromofluorobenzene	12.847	95	118775	51.260	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	102.520%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	113123	49.249	ug/l	97
3) Chloromethane	2.359	50	112831	43.706	ug/l	94
4) Vinyl Chloride	2.512	62	122843	44.993	ug/l	95
5) Bromomethane	2.947	94	72906	40.830	ug/l	94
6) Chloroethane	3.118	64	77851	44.963	ug/l	96
7) Trichlorofluoromethane	3.494	101	168414	46.925	ug/l	98
8) Diethyl Ether	3.959	74	62159	52.307	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	94675	46.360	ug/l	99
10) Methyl Iodide	4.583	142	116418	49.261	ug/l	98
11) Tert butyl alcohol	5.518	59	77990	257.112	ug/l	99
12) 1,1-Dichloroethene	4.336	96	90284	47.837	ug/l	94
13) Acrolein	4.177	56	117362	248.168	ug/l	98
14) Allyl chloride	5.018	41	140110	46.385	ug/l	97
15) Acrylonitrile	5.712	53	243992	255.570	ug/l	100
16) Acetone	4.418	43	202911	254.740	ug/l	97
17) Carbon Disulfide	4.712	76	244238	42.538	ug/l	100
18) Methyl Acetate	5.024	43	125680	51.536	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	308976	50.367	ug/l	98
20) Methylene Chloride	5.277	84	100258	46.795	ug/l	91
21) trans-1,2-Dichloroethene	5.783	96	91889	46.608	ug/l	96
22) Diisopropyl ether	6.671	45	325374	49.987	ug/l	99
23) Vinyl Acetate	6.600	43	1238586	263.034	ug/l	99
24) 1,1-Dichloroethane	6.571	63	186368	47.530	ug/l	99
25) 2-Butanone	7.477	43	324958	262.964	ug/l	96
26) 2,2-Dichloropropane	7.482	77	155415	45.241	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	110639	47.812	ug/l	96
28) Bromochloromethane	7.812	49	77034	42.276	ug/l #	98
29) Tetrahydrofuran	7.835	42	215784	271.082	ug/l	98
30) Chloroform	7.965	83	184082	45.890	ug/l	97
31) Cyclohexane	8.253	56	155315	43.379	ug/l	94
32) 1,1,1-Trichloroethane	8.165	97	161741	45.147	ug/l	99
36) 1,1-Dichloropropene	8.371	75	130916	47.028	ug/l	100
37) Ethyl Acetate	7.559	43	134415	48.579	ug/l	100
38) Carbon Tetrachloride	8.359	117	145219	47.859	ug/l	97
39) Methylcyclohexane	9.600	83	140749	48.731	ug/l	99
40) Benzene	8.606	78	401557	47.710	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085337.D
 Acq On : 27 Dec 2024 19:54
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:46:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	72165	50.926	ug/l	98
42) 1,2-Dichloroethane	8.671	62	141854	47.009	ug/l	100
43) Isopropyl Acetate	8.682	43	258318	56.698	ug/l	95
44) Trichloroethene	9.347	130	89851	45.091	ug/l	95
45) 1,2-Dichloropropane	9.618	63	100779	47.168	ug/l	95
46) Dibromomethane	9.706	93	70356	47.348	ug/l	99
47) Bromodichloromethane	9.888	83	147480	47.752	ug/l	98
48) Methyl methacrylate	9.676	41	107180	54.215	ug/l	100
49) 1,4-Dioxane	9.694	88	33381	1119.134	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	687835	268.651	ug/l	99
52) Toluene	10.629	92	243317	48.552	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	150931	49.694	ug/l	94
54) cis-1,3-Dichloropropene	10.312	75	160718	48.936	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	92267	48.764	ug/l	97
56) Ethyl methacrylate	10.870	69	155398	56.392	ug/l	99
57) 1,3-Dichloropropane	11.159	76	161673	48.684	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	360017	270.032	ug/l	99
59) 2-Hexanone	11.194	43	497580	280.111	ug/l	100
60) Dibromochloromethane	11.353	129	109072	51.180	ug/l	100
61) 1,2-Dibromoethane	11.465	107	92998	49.680	ug/l	99
64) Tetrachloroethene	11.100	164	71896	44.300	ug/l	97
65) Chlorobenzene	11.888	112	261676	47.277	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	92418	49.750	ug/l	98
67) Ethyl Benzene	11.959	91	461376	50.123	ug/l	100
68) m/p-Xylenes	12.070	106	351159	104.245	ug/l	100
69) o-Xylene	12.394	106	168921	51.838	ug/l	97
70) Styrene	12.412	104	285621	54.081	ug/l	100
71) Bromoform	12.576	173	68988	53.619	ug/l #	99
73) Isopropylbenzene	12.694	105	430895	50.287	ug/l	99
74) N-ethyl acetate	12.488	43	207891	56.680	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	135425	49.623	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	122072m	54.860	ug/l	
77) Bromobenzene	12.976	156	97145	45.760	ug/l	97
78) n-propylbenzene	13.035	91	506572	50.717	ug/l	100
79) 2-Chlorotoluene	13.123	91	309290	49.202	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	359513	51.871	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	49551	53.330	ug/l	95
82) 4-Chlorotoluene	13.217	91	311175	49.151	ug/l	99
83) tert-Butylbenzene	13.435	119	299444	49.875	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	362722	52.558	ug/l	98
85) sec-Butylbenzene	13.611	105	423924	50.868	ug/l	98
86) p-Isopropyltoluene	13.729	119	355028	47.752	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	182452	47.408	ug/l	98
88) 1,4-Dichlorobenzene	13.811	146	182104	46.065	ug/l	99
89) n-Butylbenzene	14.053	91	301821	49.458	ug/l	99
90) Hexachloroethane	14.329	117	70685	51.745	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	178612	48.719	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	25973	53.475	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	84575	46.223	ug/l	99
94) Hexachlorobutadiene	15.500	225	37128	40.840	ug/l	97
95) Naphthalene	15.635	128	291130	46.923	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	84747	46.357	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085337.D
Acq On : 27 Dec 2024 19:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:46:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

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

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

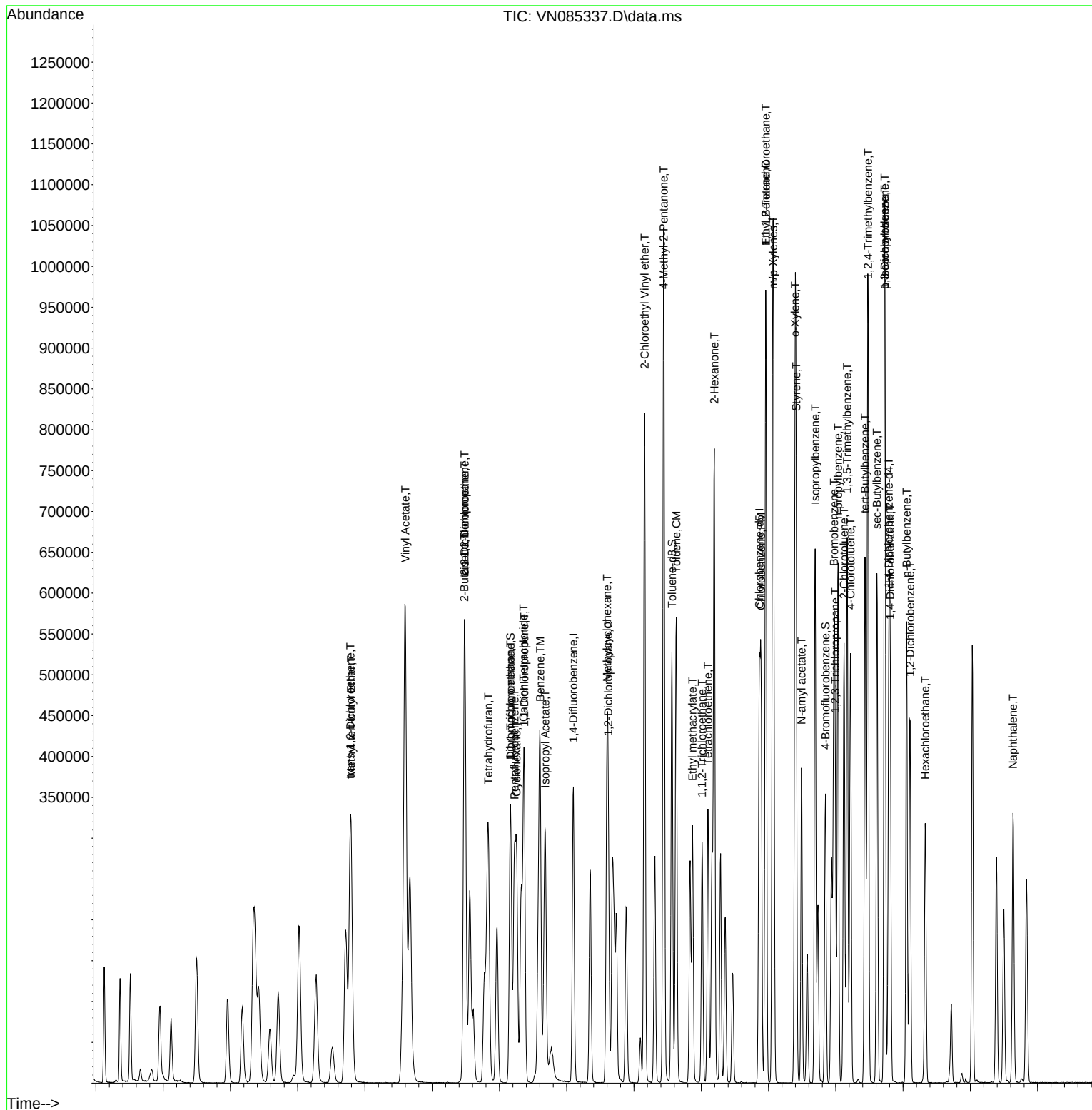
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085337.D
Acq On : 27 Dec 2024 19:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

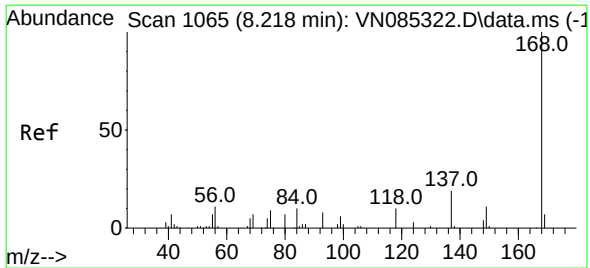
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

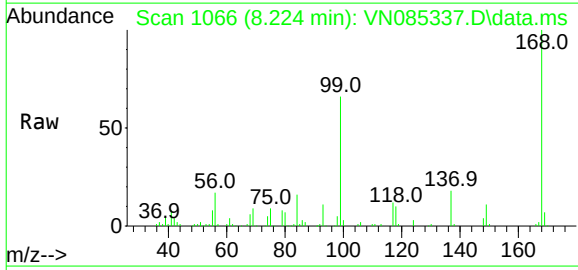
Quant Time: Dec 28 01:46:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

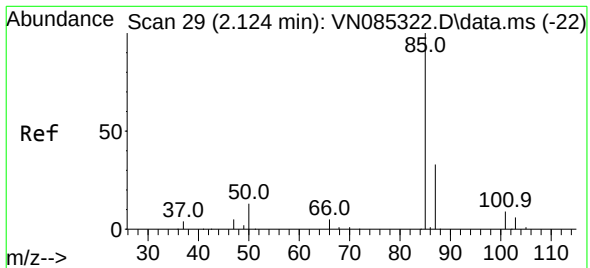
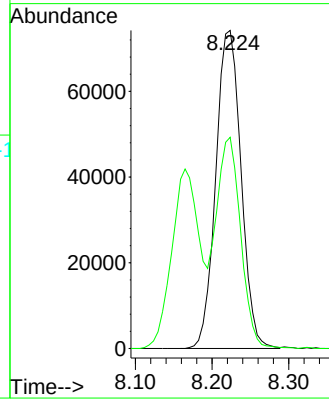
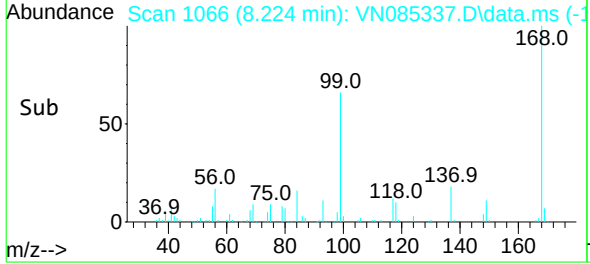
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:168 Resp: 169838
Ion Ratio Lower Upper
168 100
99 66.1 51.0 76.4

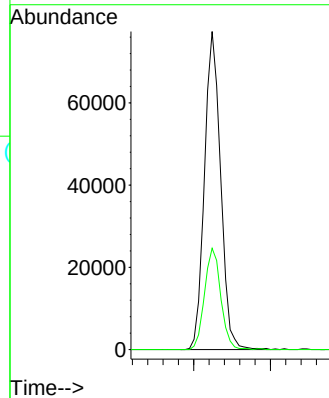
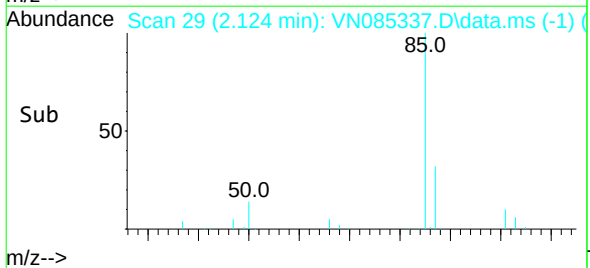
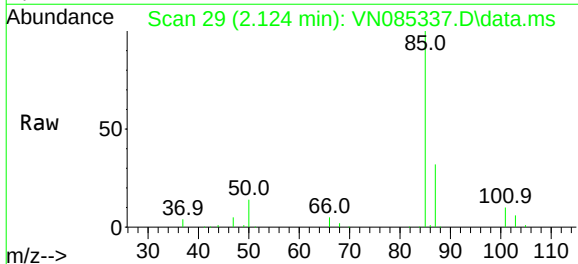
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

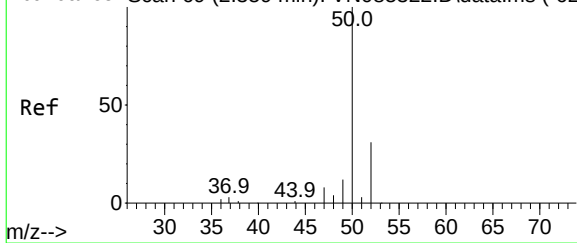


#2
Dichlorodifluoromethane
Concen: 49.249 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Tgt Ion: 85 Resp: 113123
Ion Ratio Lower Upper
85 100
87 31.8 16.8 50.3



Abundance Scan 69 (2.359 min): VN085322.D\data.ms (-62)



#3

Chloromethane

Concen: 43.706 ug/l

RT: 2.359 min Scan# 69

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 50 Resp: 112831

Ion Ratio Lower Upper

50 100

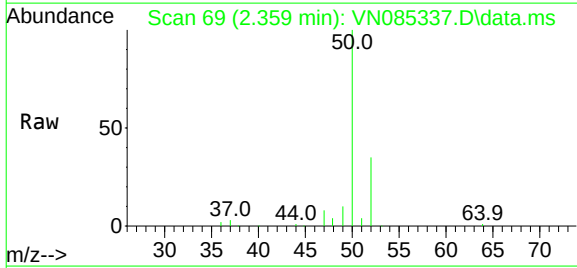
52 34.8 25.1 37.7

Manual Integrations

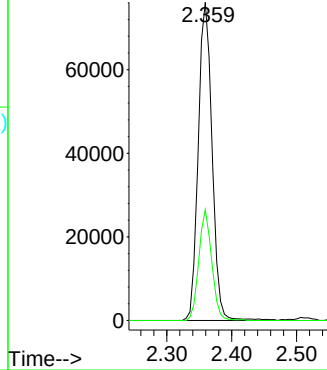
APPROVED

Reviewed By :John Carlone 12/30/2024

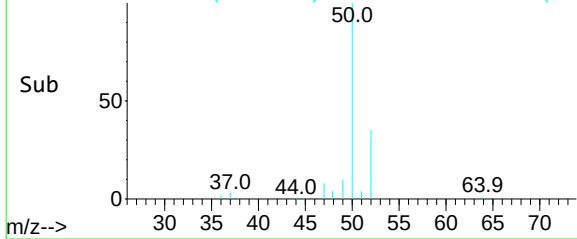
Supervised By :Mahesh Dadoda 12/30/2024



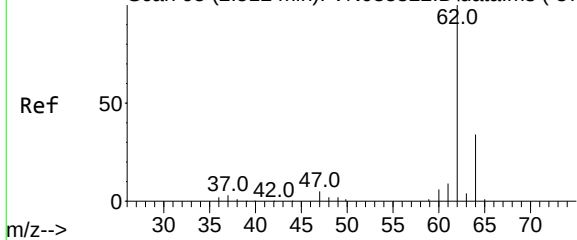
Abundance



Abundance Scan 69 (2.359 min): VN085337.D\data.ms (-18)



Abundance Scan 95 (2.512 min): VN085322.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 44.993 ug/l

RT: 2.512 min Scan# 95

Delta R.T. -0.000 min

Lab File: VN085337.D

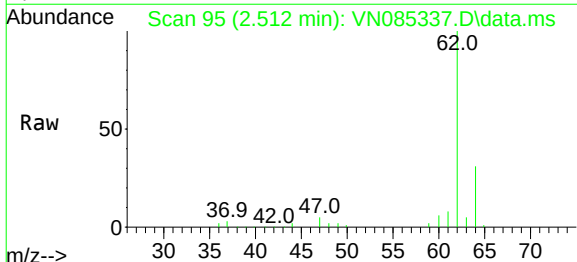
Acq: 27 Dec 2024 19:54

Tgt Ion: 62 Resp: 122843

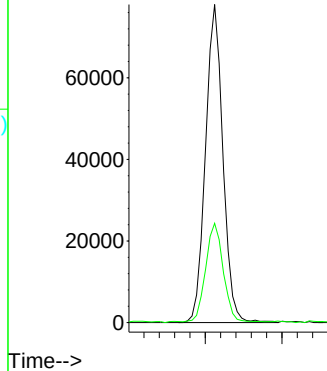
Ion Ratio Lower Upper

62 100

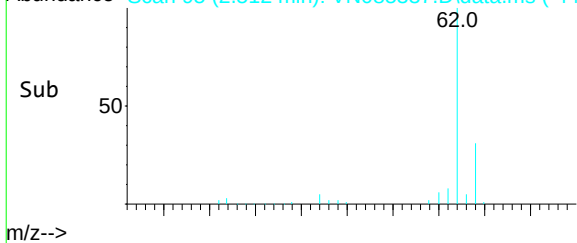
64 30.9 27.0 40.6

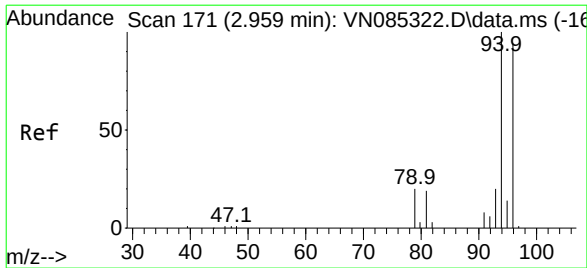


Abundance



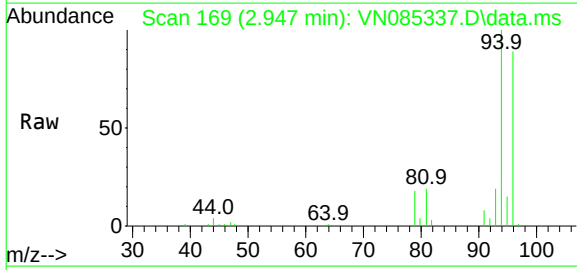
Abundance Scan 95 (2.512 min): VN085337.D\data.ms (-44)





#5
Bromomethane
Concen: 40.830 ug/l
RT: 2.947 min Scan# 16
Delta R.T. -0.012 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

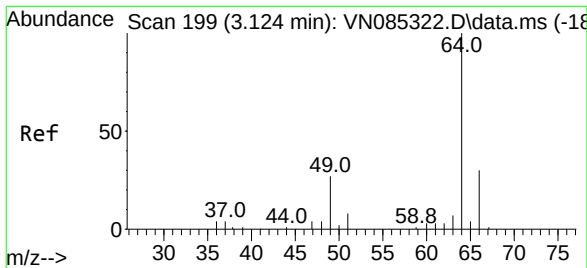
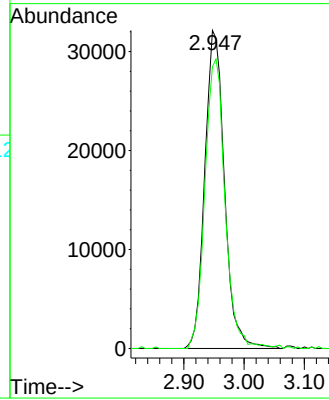
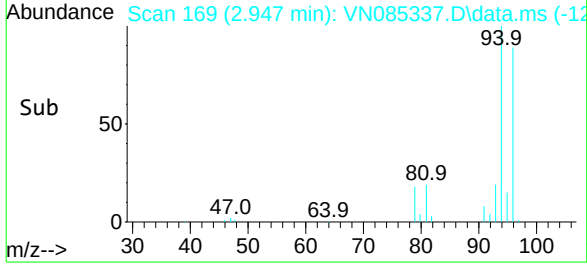
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 94 Resp: 72906
Ion Ratio Lower Upper
94 100
96 88.6 75.2 112.8

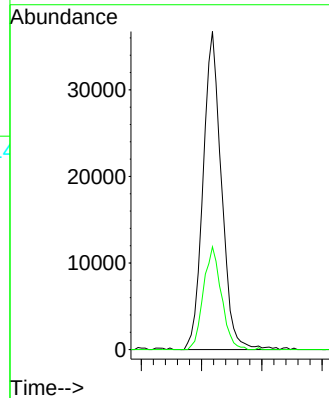
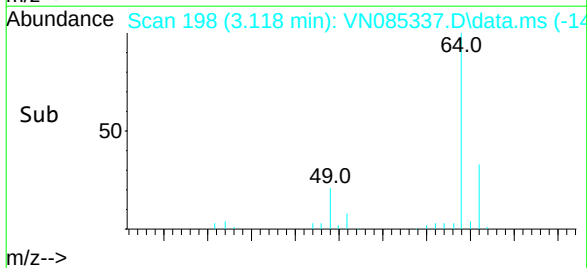
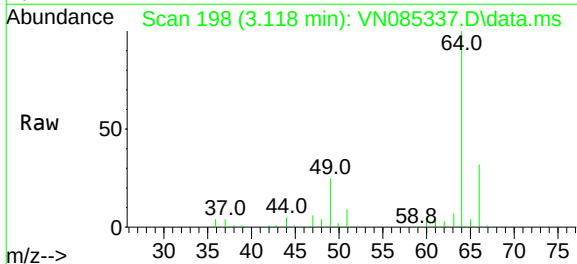
Manual Integrations
APPROVED

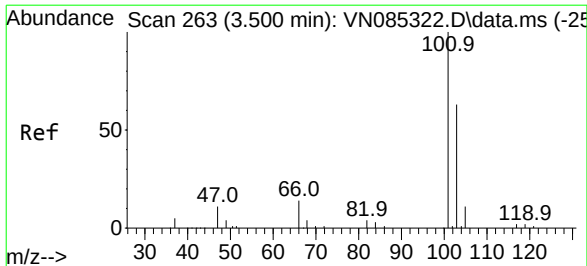
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#6
Chloroethane
Concen: 44.963 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Tgt Ion: 64 Resp: 77851
Ion Ratio Lower Upper
64 100
66 32.3 24.1 36.1





#7

Trichlorofluoromethane

Concen: 46.925 ug/l

RT: 3.494 min Scan# 263

Delta R.T. -0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:101 Resp: 168414

Ion Ratio Lower Upper

101 100

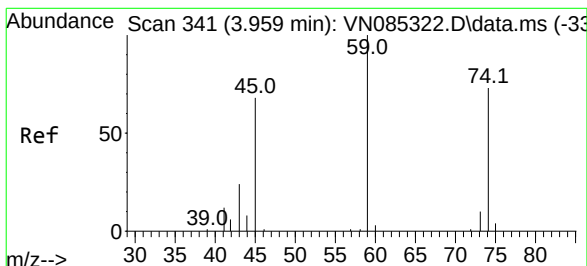
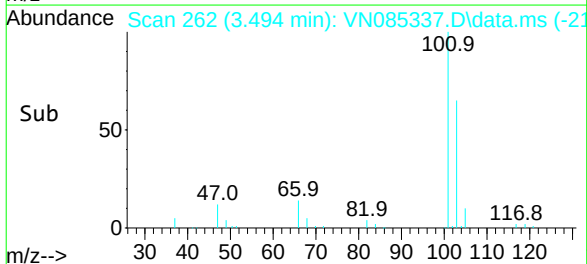
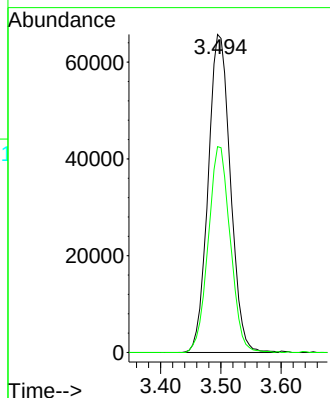
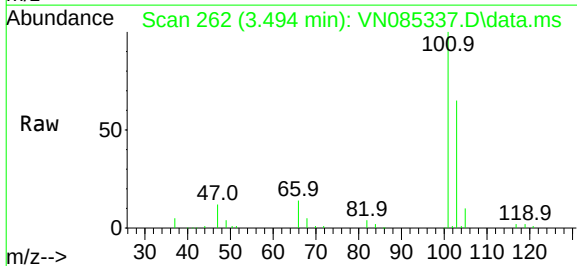
103 64.7 50.3 75.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#8

Diethyl Ether

Concen: 52.307 ug/l

RT: 3.959 min Scan# 341

Delta R.T. -0.000 min

Lab File: VN085337.D

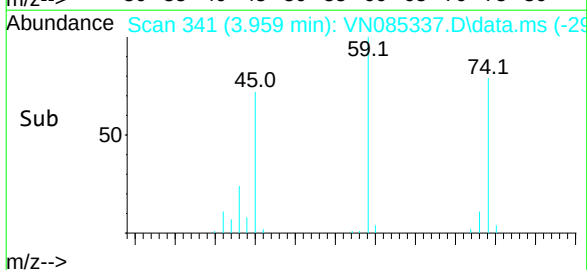
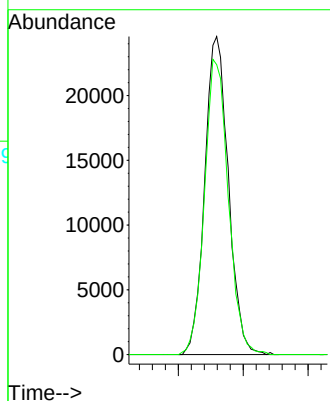
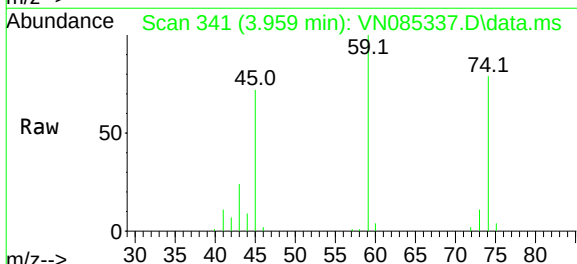
Acq: 27 Dec 2024 19:54

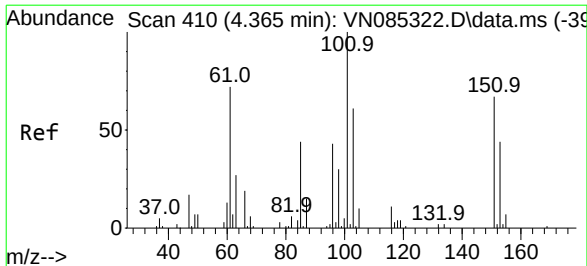
Tgt Ion: 74 Resp: 62159

Ion Ratio Lower Upper

74 100

45 93.8 47.5 142.6





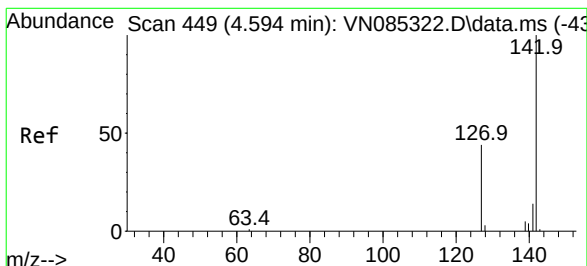
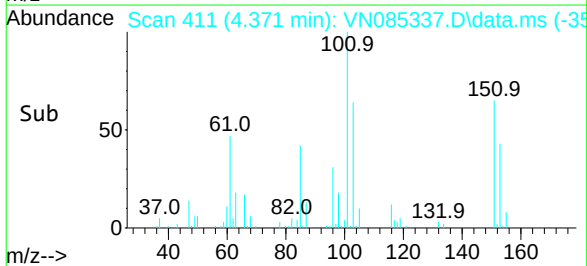
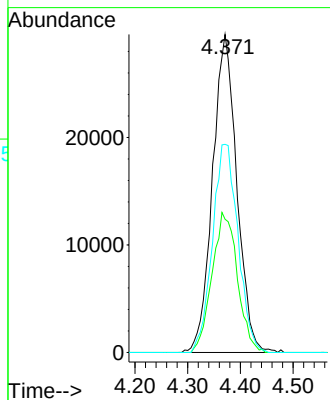
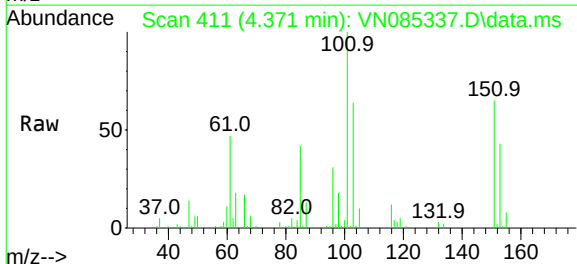
#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.360 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 94675
Ion Ratio Lower Upper
101 100
85 45.9 36.2 54.4
151 68.8 55.8 83.6

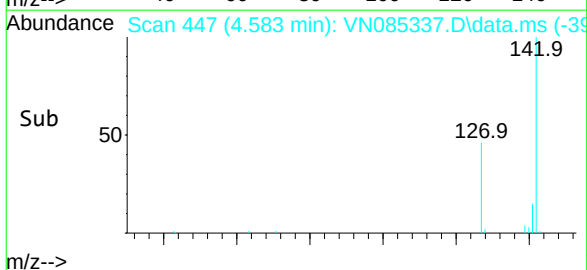
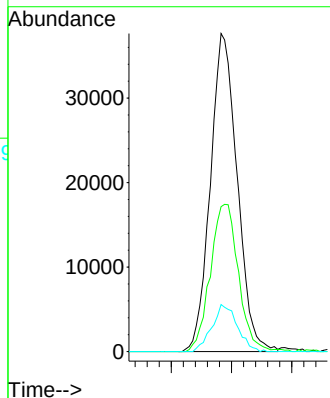
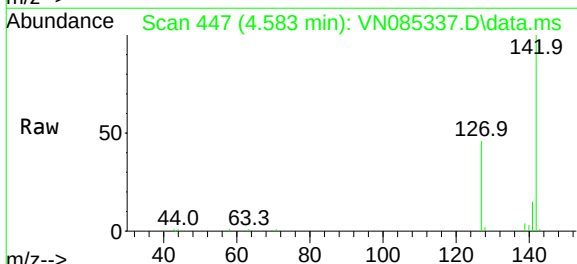
Manual Integrations
APPROVED

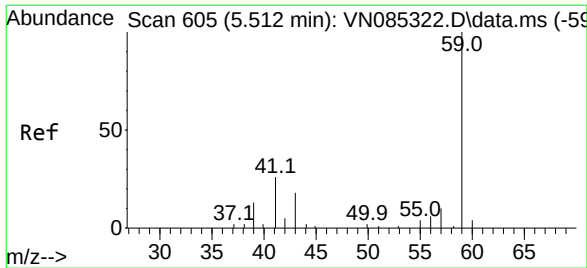
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#10
Methyl Iodide
Concen: 49.261 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.012 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Tgt Ion:142 Resp: 116418
Ion Ratio Lower Upper
142 100
127 45.6 35.3 52.9
141 14.8 11.5 17.3





#11

Tert butyl alcohol

Concen: 257.112 ug/l

RT: 5.518 min Scan# 605

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 59 Resp: 77990

Ion Ratio Lower Upper

59 100

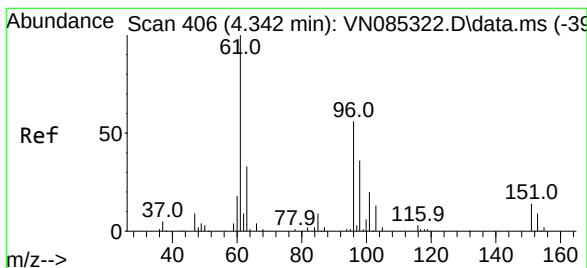
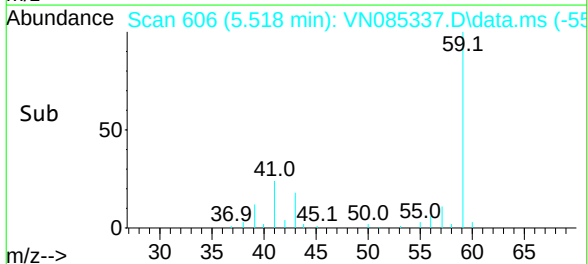
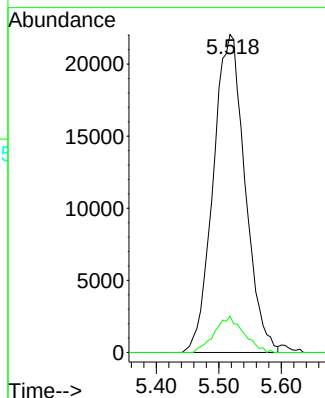
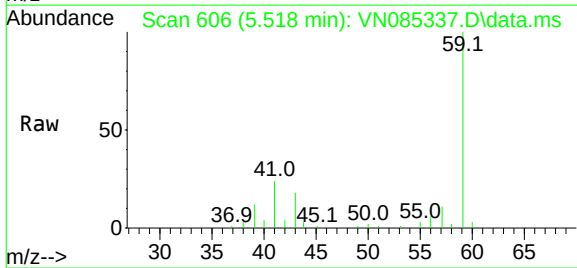
57 10.5 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#12

1,1-Dichloroethene

Concen: 47.837 ug/l

RT: 4.336 min Scan# 405

Delta R.T. -0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

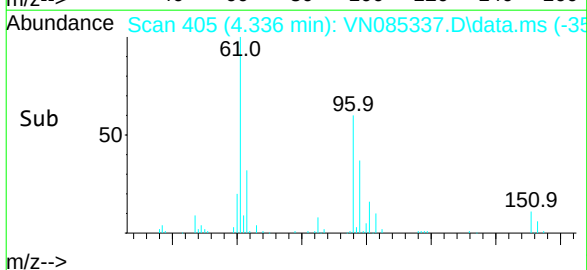
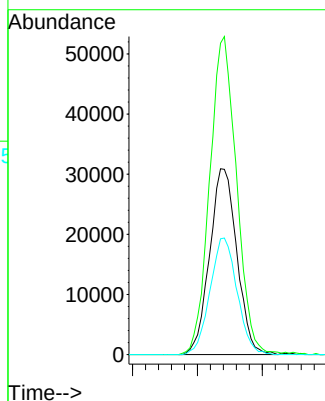
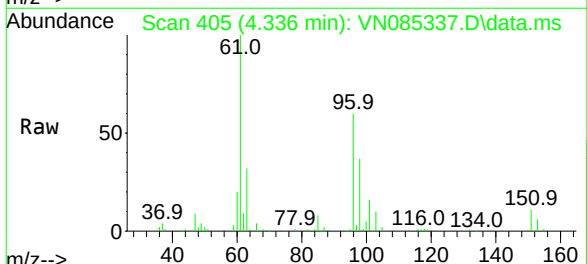
Tgt Ion: 96 Resp: 90284

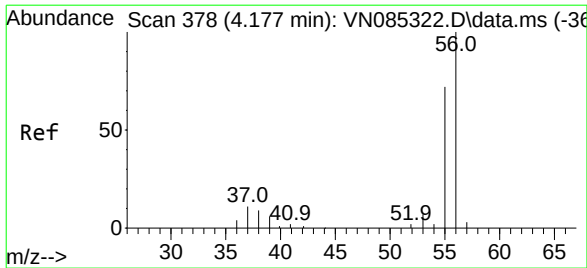
Ion Ratio Lower Upper

96 100

61 167.6 142.4 213.6

98 62.3 51.5 77.3





#13

Acrolein

Concen: 248.168 ug/l

RT: 4.177 min Scan# 378

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 117362

Ion Ratio Lower Upper

56 100

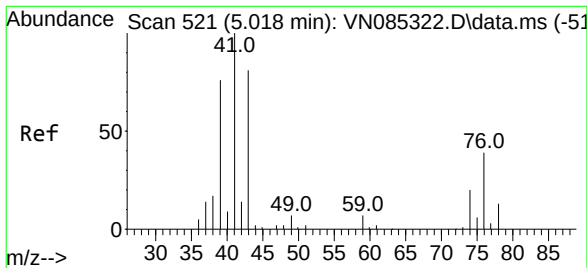
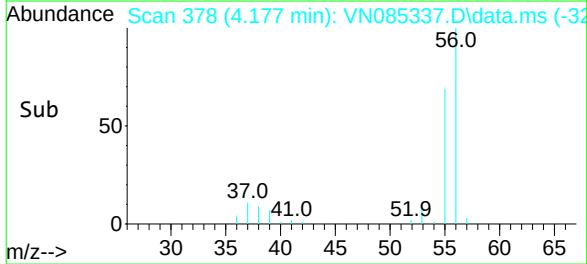
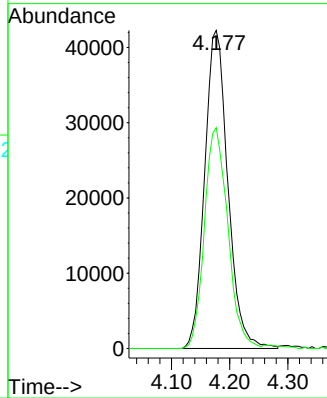
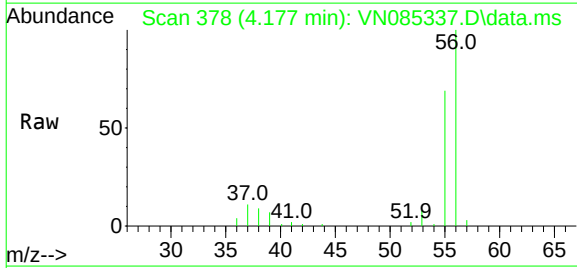
55 69.8 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#14

Allyl chloride

Concen: 46.385 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

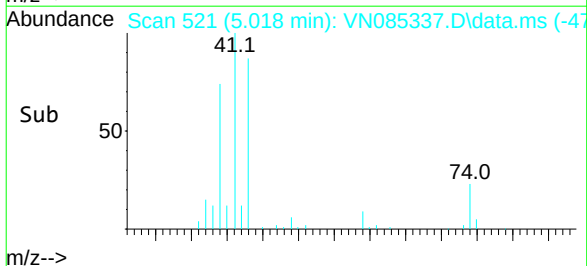
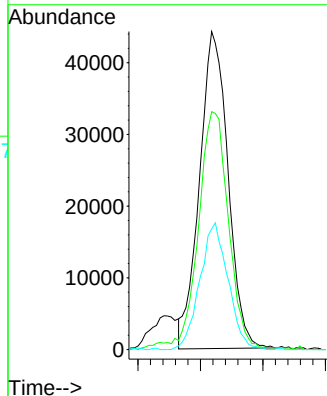
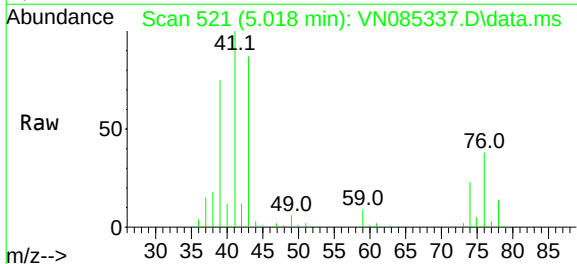
Tgt Ion: 41 Resp: 140110

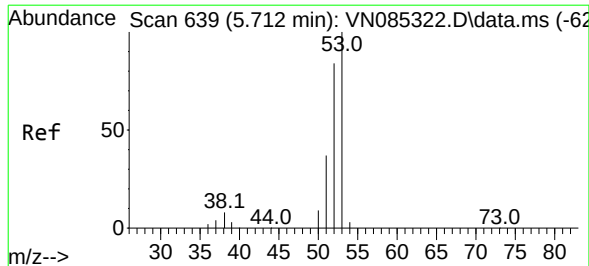
Ion Ratio Lower Upper

41 100

39 77.2 64.4 96.6

76 39.5 31.5 47.3





#15

Acrylonitrile

Concen: 255.570 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.000 min

Lab File: VN085337.D

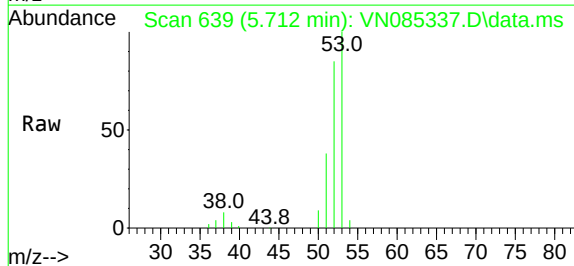
Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion: 53 Resp: 243992

Ion Ratio Lower Upper

53 100

52 83.3 66.6 100.0

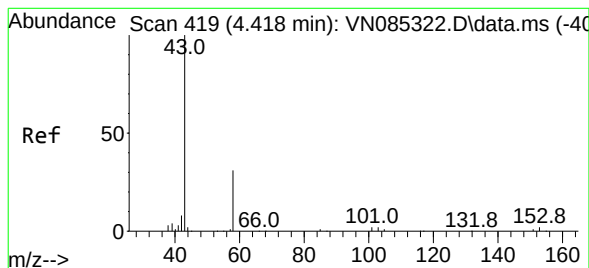
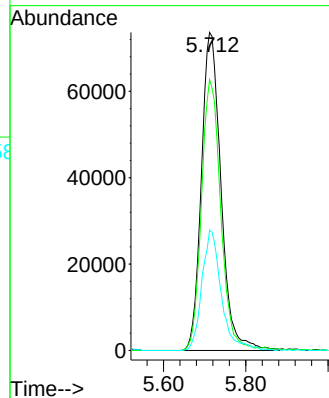
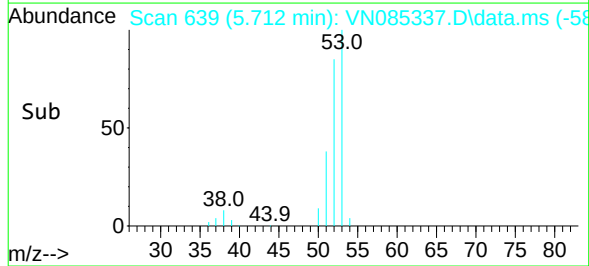
51 37.4 29.6 44.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#16

Acetone

Concen: 254.740 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.000 min

Lab File: VN085337.D

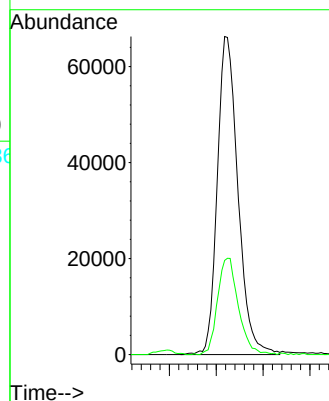
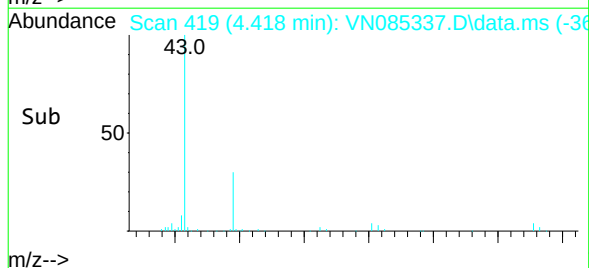
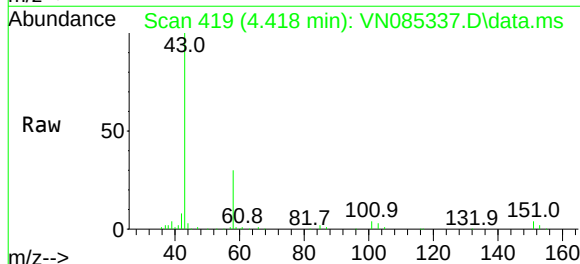
Acq: 27 Dec 2024 19:54

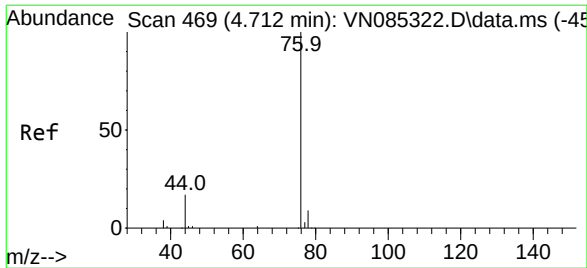
Tgt Ion: 43 Resp: 202911

Ion Ratio Lower Upper

43 100

58 29.2 24.5 36.7





#17

Carbon Disulfide

Concen: 42.538 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 244238

Ion Ratio Lower Upper

76 100

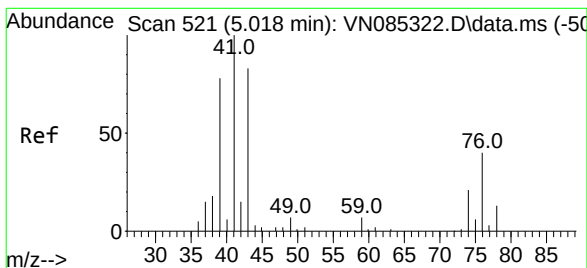
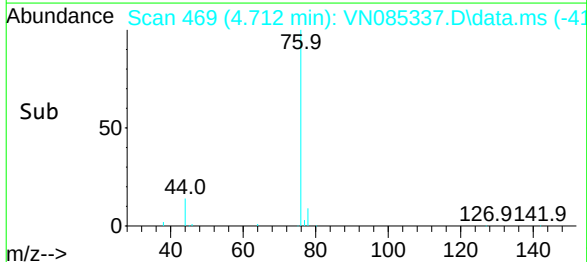
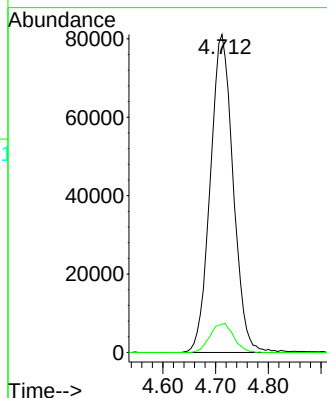
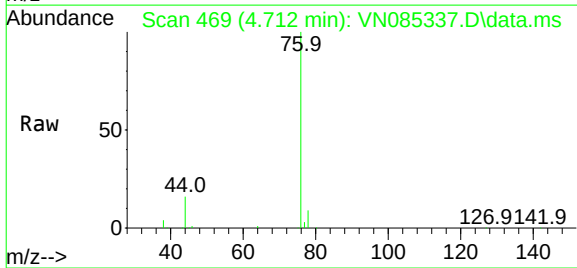
78 8.9 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#18

Methyl Acetate

Concen: 51.536 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085337.D

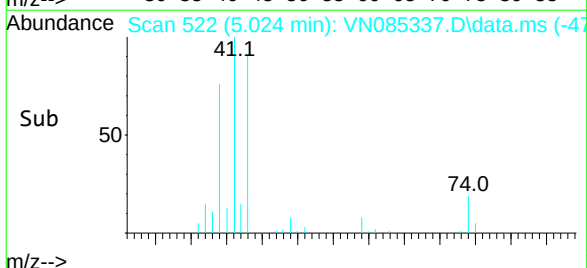
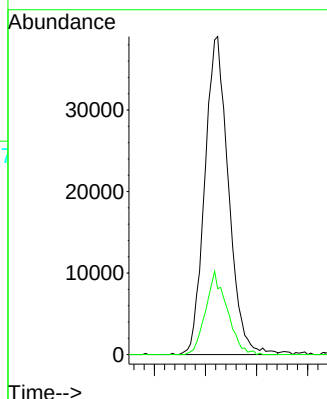
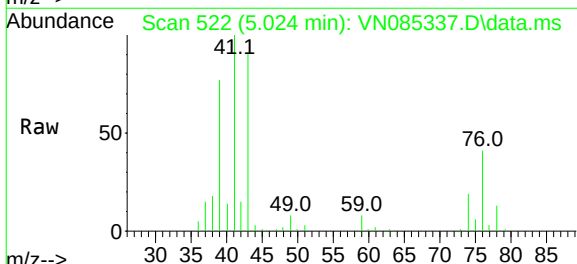
Acq: 27 Dec 2024 19:54

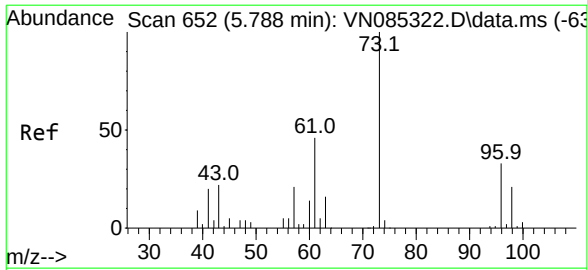
Tgt Ion: 43 Resp: 125680

Ion Ratio Lower Upper

43 100

74 23.7 19.0 28.6





#19

Methyl tert-butyl Ether

Concen: 50.367 ug/l

RT: 5.794 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 73 Resp: 308976

Ion Ratio Lower Upper

73 100

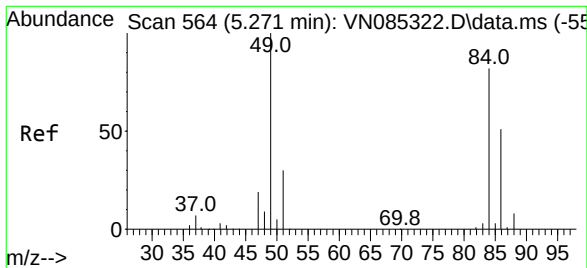
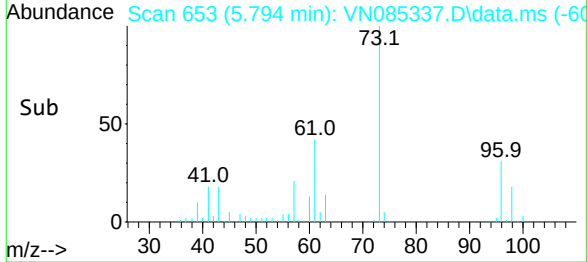
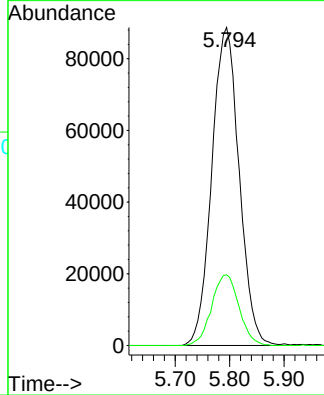
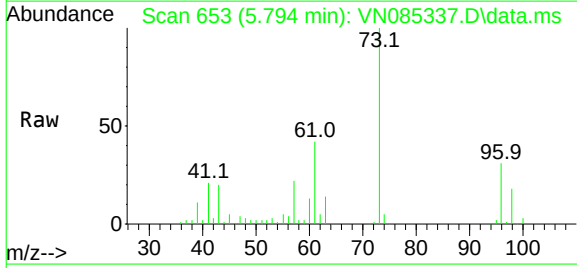
57 22.2 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#20

Methylene Chloride

Concen: 46.795 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Tgt Ion: 84 Resp: 100258

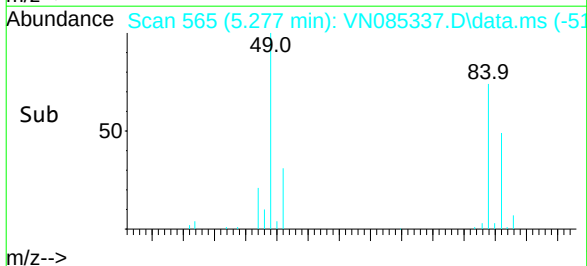
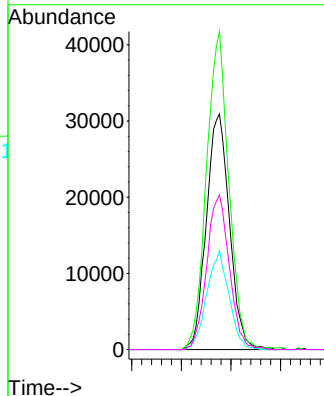
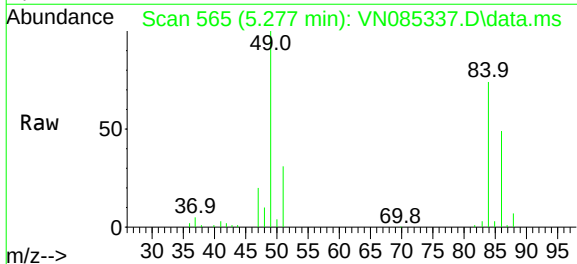
Ion Ratio Lower Upper

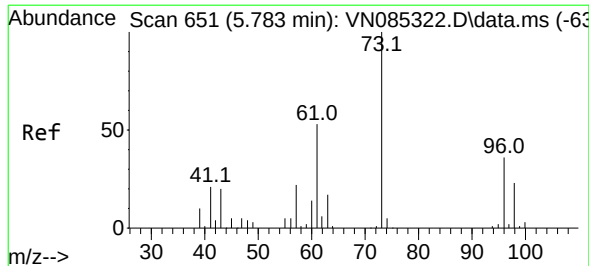
84 100

49 135.0 97.6 146.4

51 42.1 29.1 43.7

86 65.6 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 46.608 ug/l

RT: 5.783 min Scan# 651

Delta R.T. -0.000 min

Lab File: VN085337.D

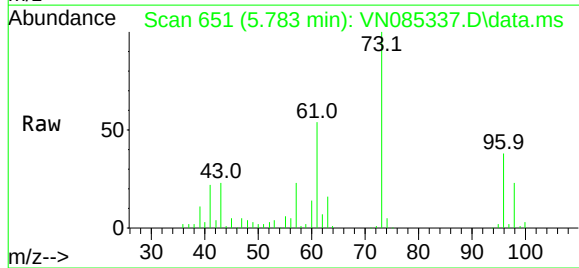
Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion: 96 Resp: 91889

Ion Ratio Lower Upper

96 100

61 140.8 118.0 177.0

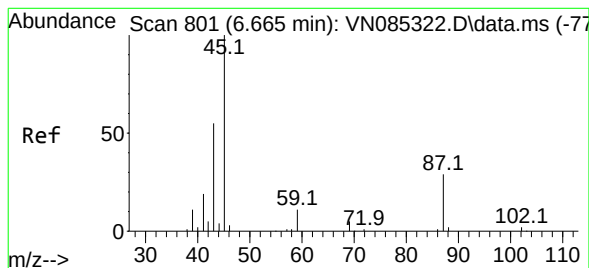
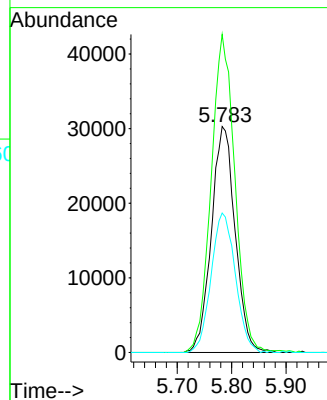
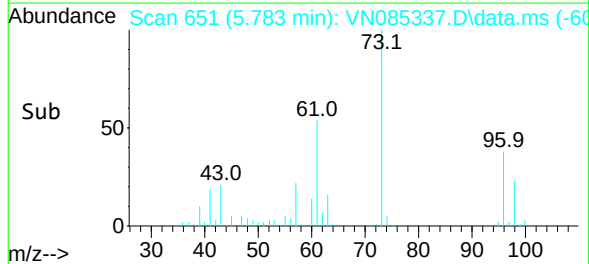
98 61.7 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#22

Diisopropyl ether

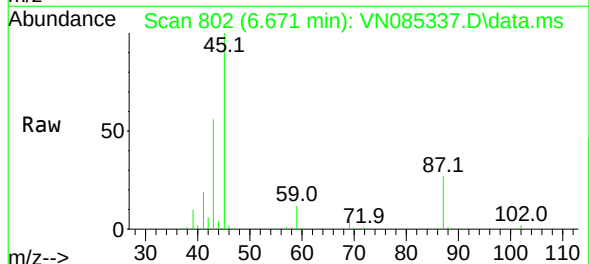
Concen: 49.987 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54



Tgt Ion: 45 Resp: 325374

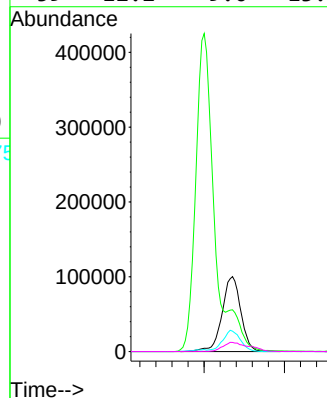
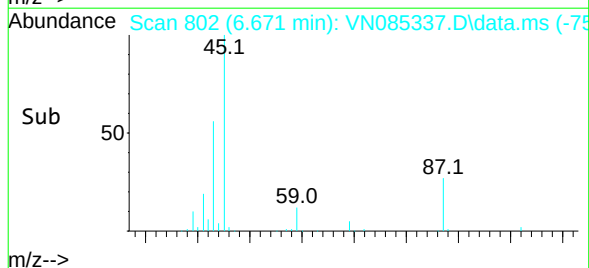
Ion Ratio Lower Upper

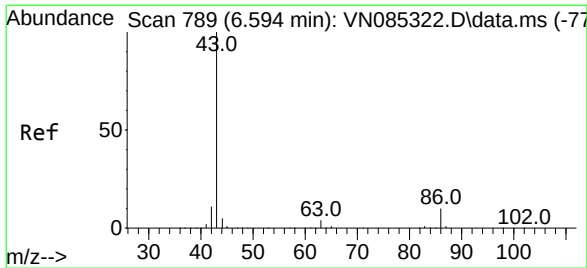
45 100

43 54.9 44.1 66.1

87 27.2 23.2 34.8

59 12.2 9.0 13.6





#23

Vinyl Acetate

Concen: 263.034 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 1238586

Ion Ratio Lower Upper

43 100

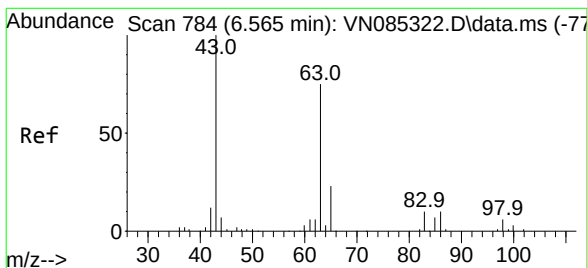
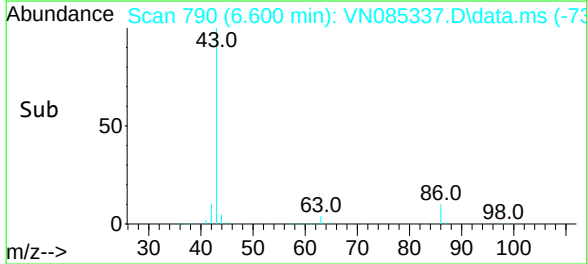
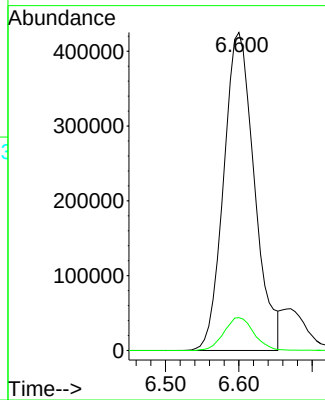
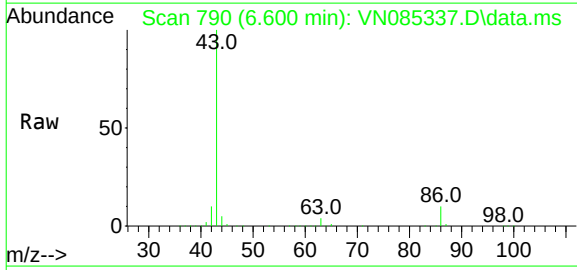
86 10.3 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#24

1,1-Dichloroethane

Concen: 47.530 ug/l

RT: 6.571 min Scan# 785

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

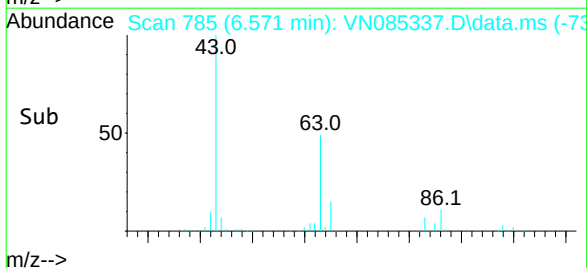
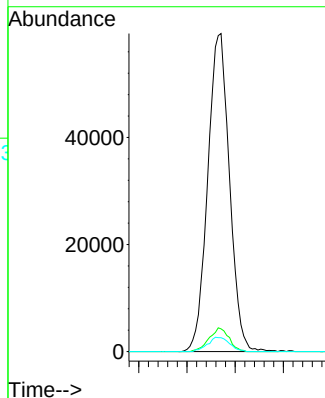
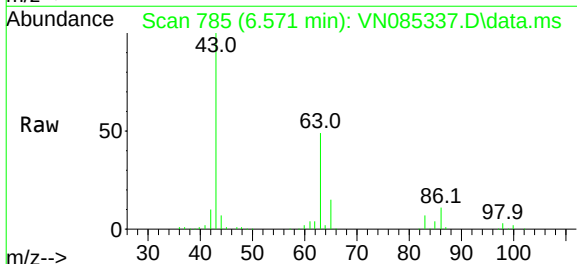
Tgt Ion: 63 Resp: 186368

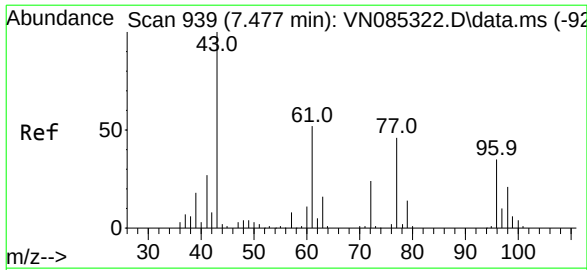
Ion Ratio Lower Upper

63 100

98 7.1 3.7 11.1

100 4.4 2.3 6.8





#25

2-Butanone

Concen: 262.964 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 324958

Ion Ratio Lower Upper

43 100

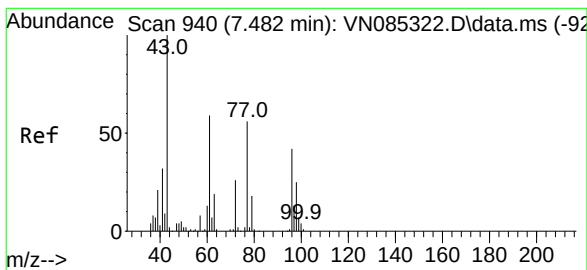
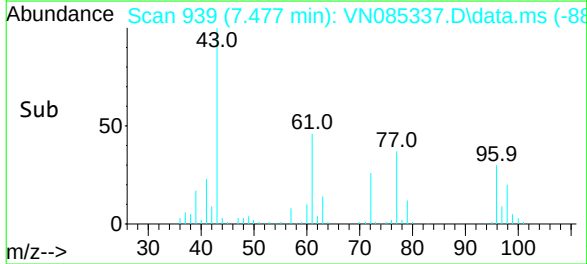
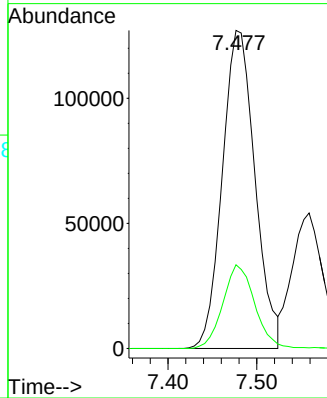
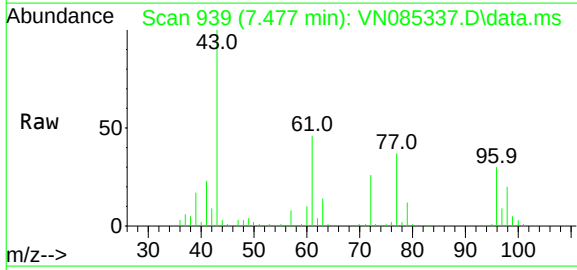
72 26.3 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#26

2,2-Dichloropropane

Concen: 45.241 ug/l

RT: 7.482 min Scan# 940

Delta R.T. -0.000 min

Lab File: VN085337.D

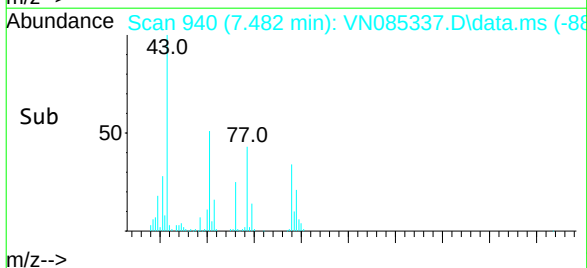
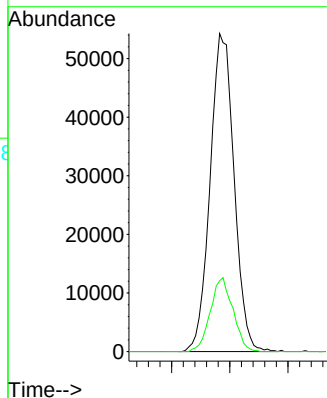
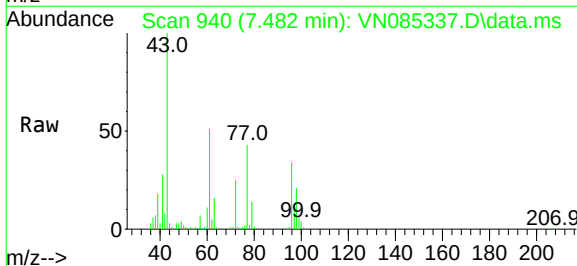
Acq: 27 Dec 2024 19:54

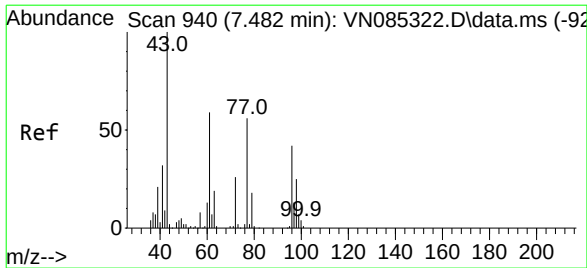
Tgt Ion: 77 Resp: 155415

Ion Ratio Lower Upper

77 100

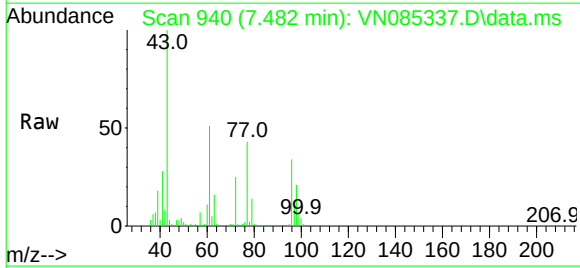
97 21.9 10.6 31.8





#27
cis-1,2-Dichloroethene
Concen: 47.812 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

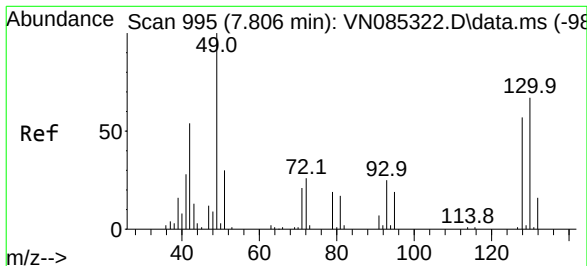
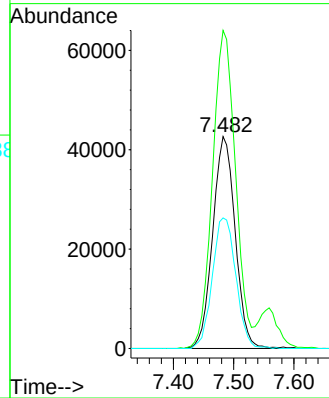
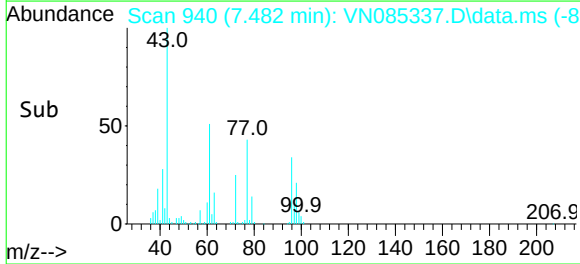
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 96 Resp: 110639
Ion Ratio Lower Upper
96 100
61 153.0 0.0 296.4
98 64.5 0.0 124.2

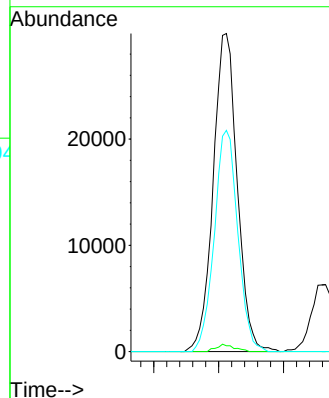
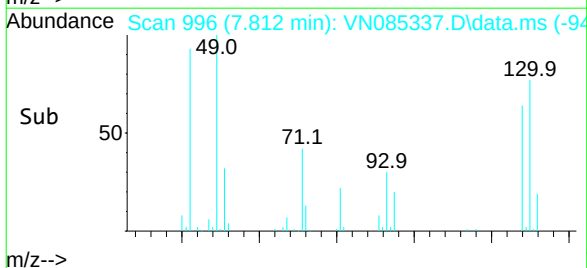
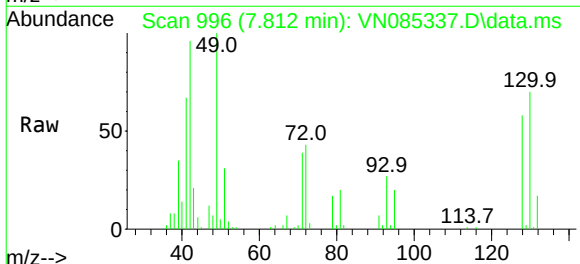
Manual Integrations
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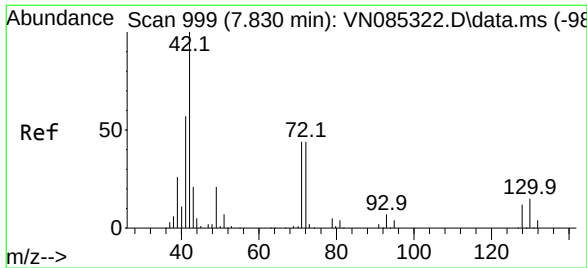
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#28
Bromochloromethane
Concen: 42.276 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Tgt Ion: 49 Resp: 77034
Ion Ratio Lower Upper
49 100
129 1.7 0.0 2.0
130 68.0 0.0 0.0#





#29

Tetrahydrofuran

Concen: 271.082 ug/l

RT: 7.835 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 42 Resp: 215784

Ion Ratio Lower Upper

42 100

72 42.5 35.1 52.7

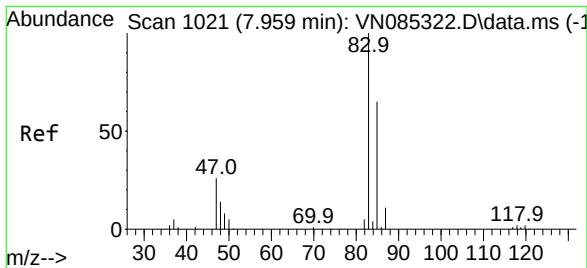
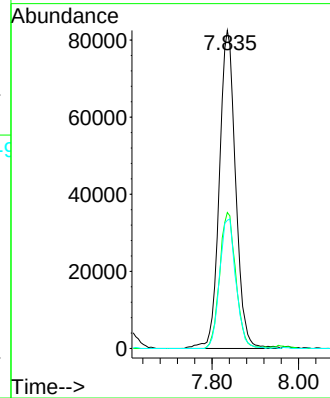
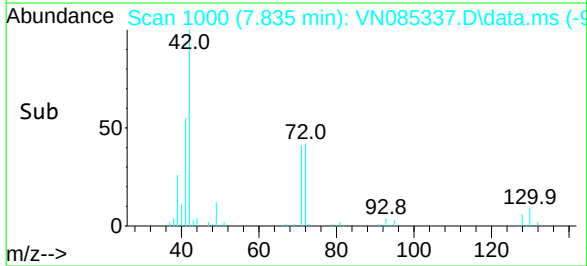
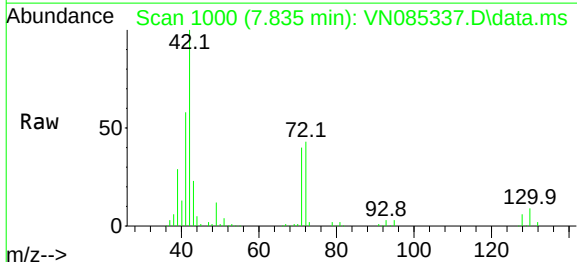
71 40.7 33.4 50.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#30

Chloroform

Concen: 45.890 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085337.D

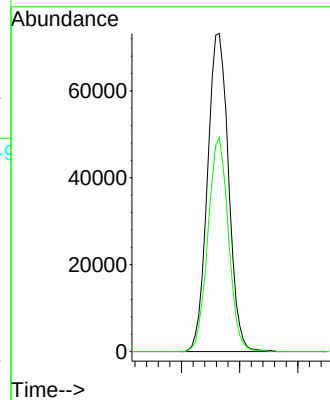
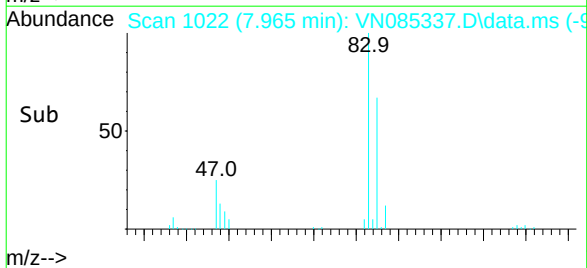
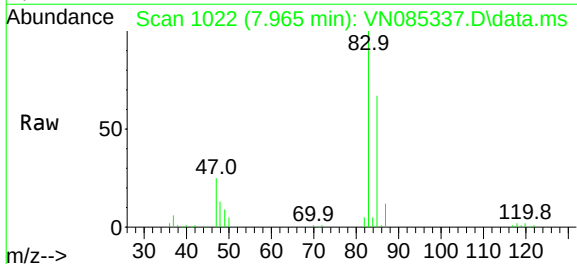
Acq: 27 Dec 2024 19:54

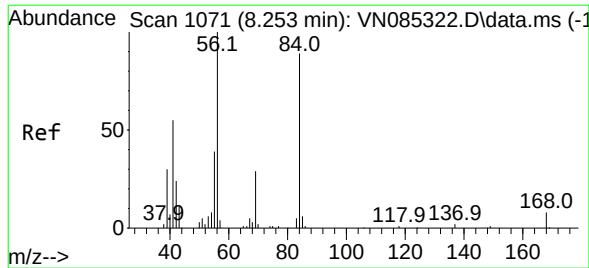
Tgt Ion: 83 Resp: 184082

Ion Ratio Lower Upper

83 100

85 67.4 52.0 78.0





#31

Cyclohexane

Concen: 43.379 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 56 Resp: 155315

Ion Ratio Lower Upper

56 100

69 28.8 23.4 35.0

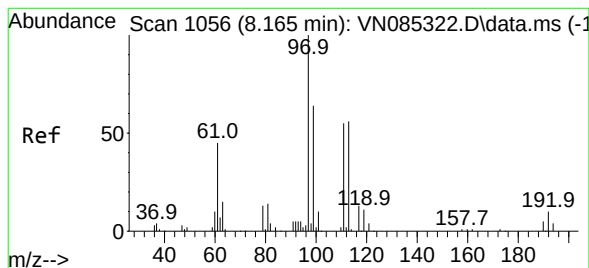
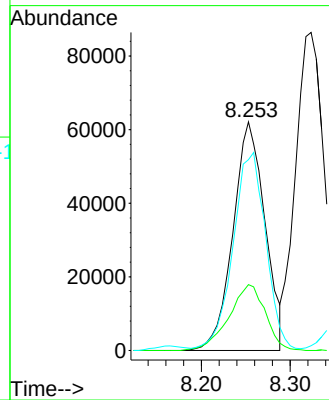
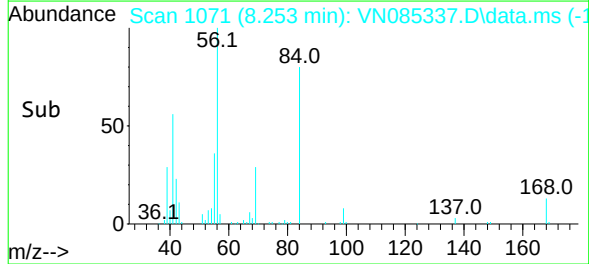
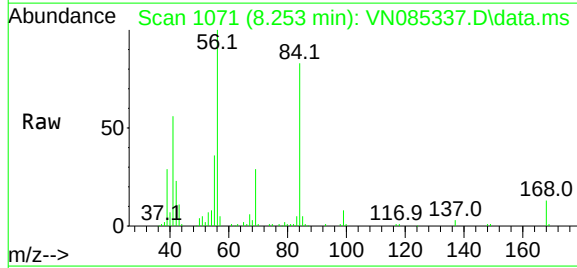
84 82.1 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#32

1,1,1-Trichloroethane

Concen: 45.147 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

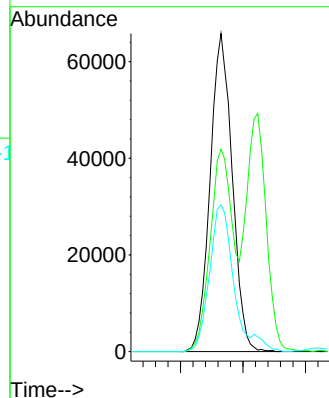
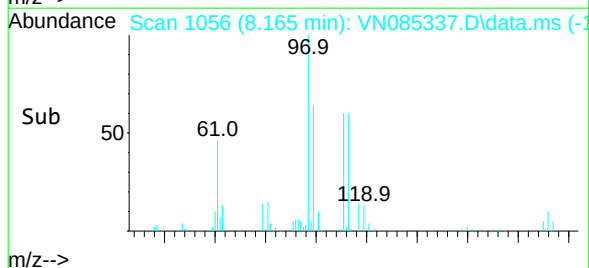
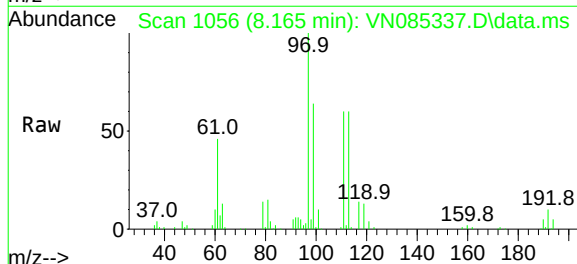
Tgt Ion: 97 Resp: 161741

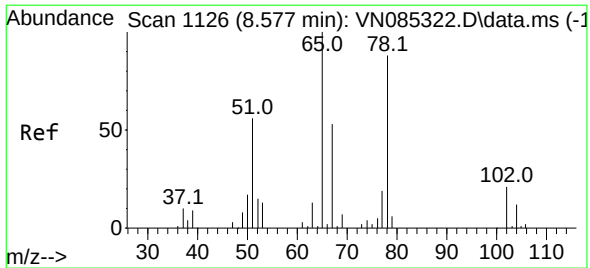
Ion Ratio Lower Upper

97 100

99 66.3 53.3 79.9

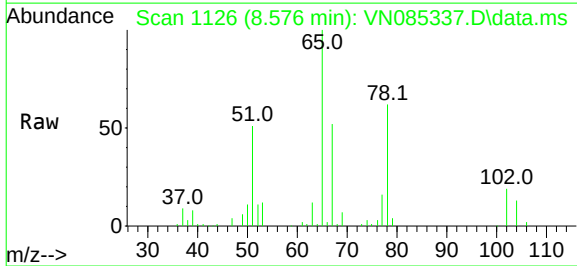
61 48.1 39.6 59.4





#33
1,2-Dichloroethane-d4
Concen: 50.594 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

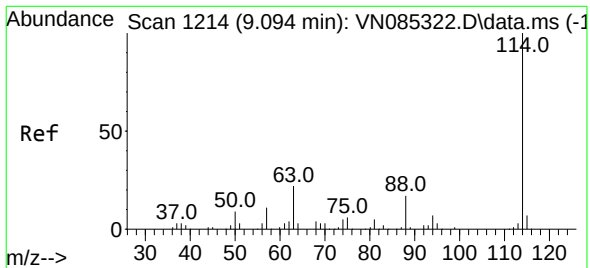
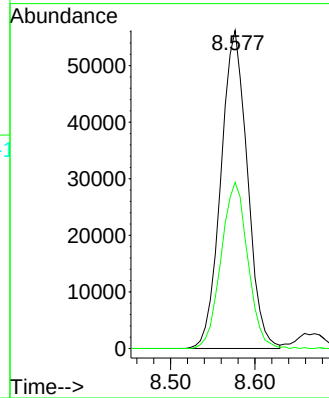
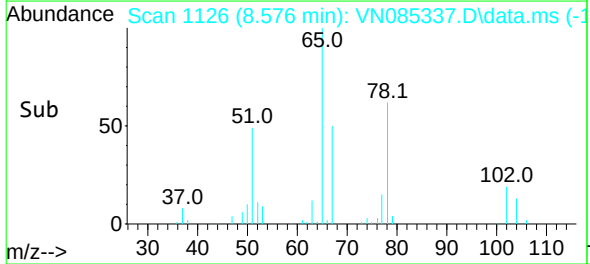
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



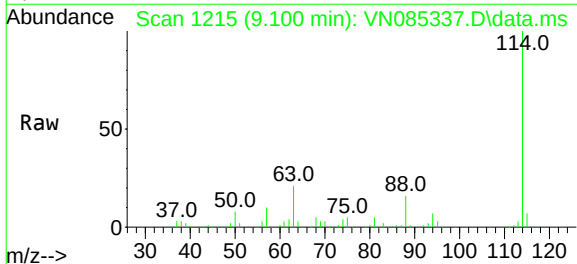
Tgt Ion: 65 Resp: 122557
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.0

Manual Integrations
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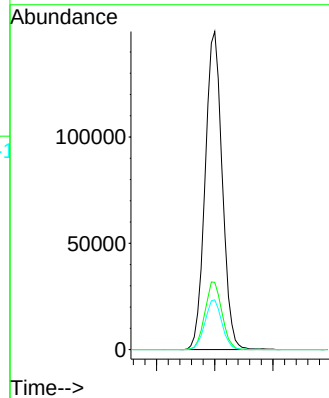
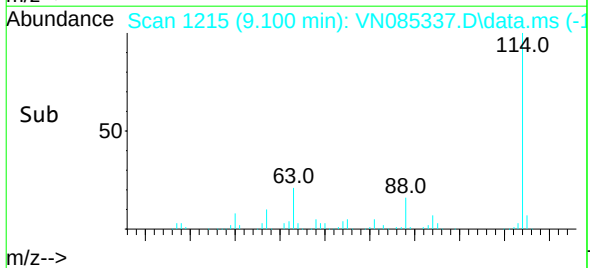
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

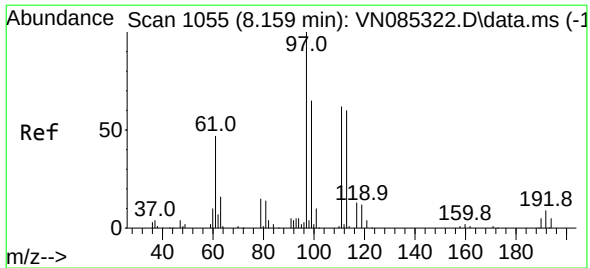


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54



Tgt Ion:114 Resp: 304765
Ion Ratio Lower Upper
114 100
63 21.2 0.0 43.4
88 15.6 0.0 33.6





#35

Dibromofluoromethane

Concen: 51.312 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085337.D

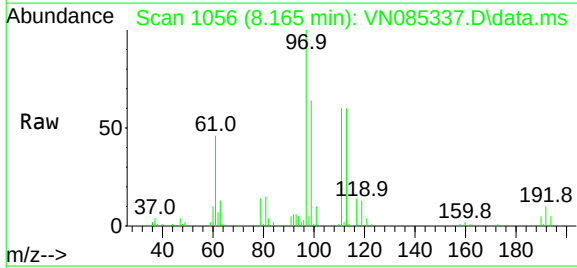
Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC



Tgt Ion: 113 Resp: 97559

Ion Ratio Lower Upper

113 100

111 102.3 80.5 120.7

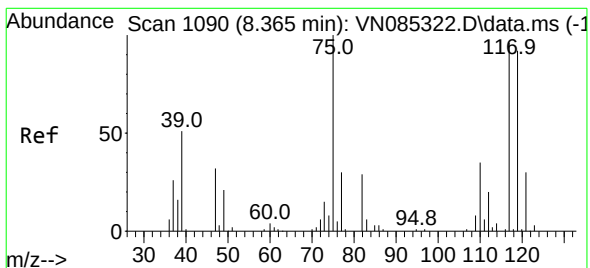
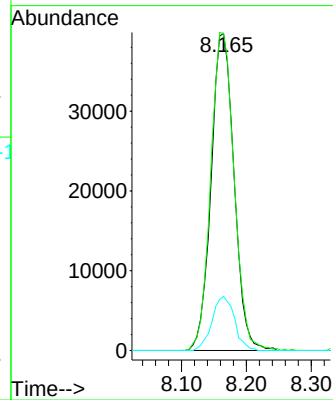
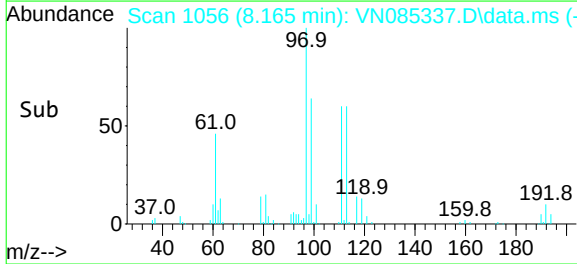
192 16.7 12.9 19.3

Manual Integrations

APPROVED

Reviewed By : John Carlone 12/30/2024

Supervised By : Mahesh Dadoda 12/30/2024



#36

1,1-Dichloropropene

Concen: 47.028 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

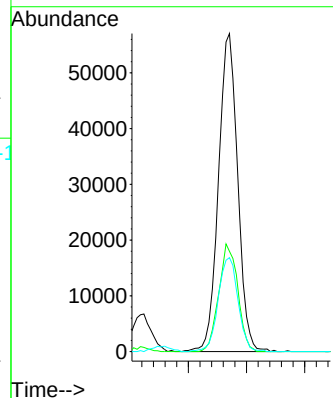
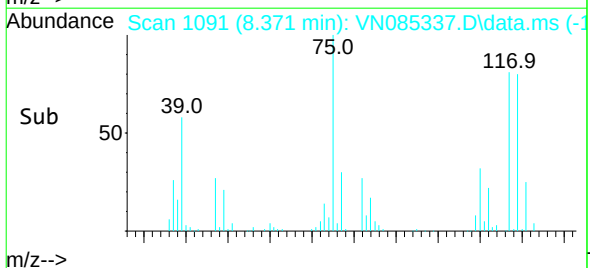
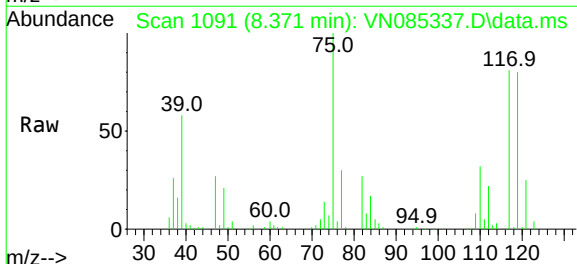
Tgt Ion: 75 Resp: 130916

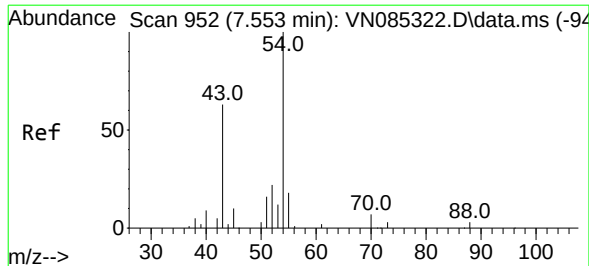
Ion Ratio Lower Upper

75 100

110 33.4 16.6 49.8

77 30.6 24.3 36.5





#37

Ethyl Acetate

Concen: 48.579 ug/l

RT: 7.559 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 134415

Ion Ratio Lower Upper

43 100

61 13.1 10.4 15.6

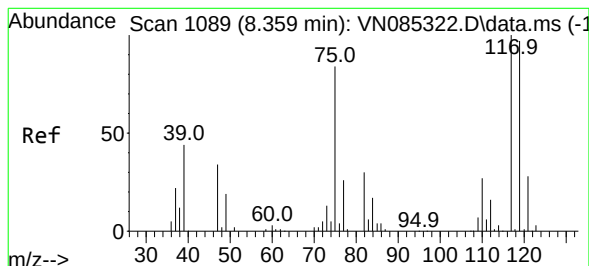
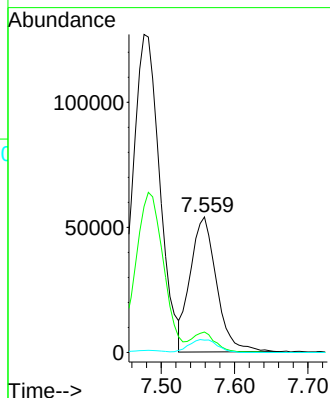
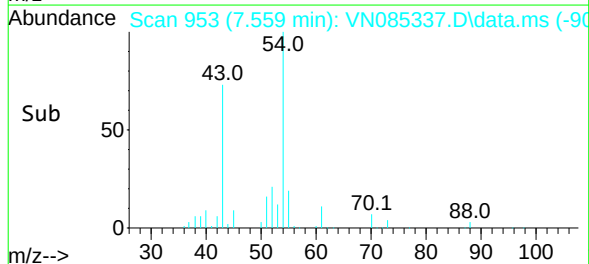
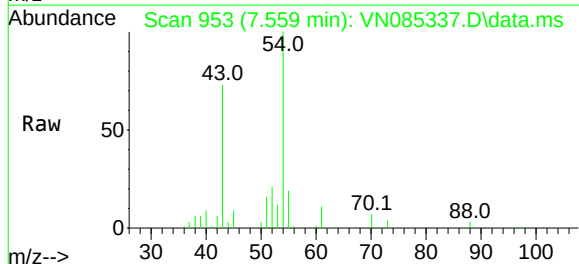
70 10.2 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#38

Carbon Tetrachloride

Concen: 47.859 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

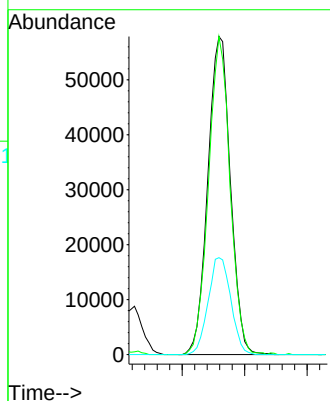
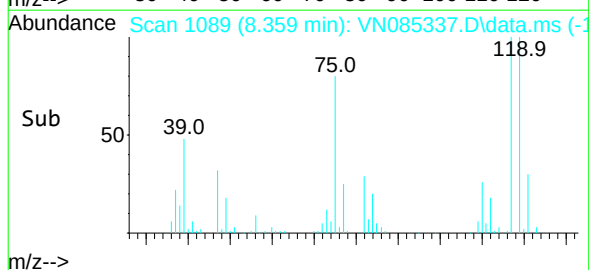
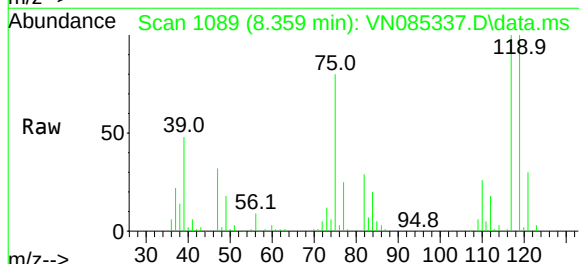
Tgt Ion:117 Resp: 145219

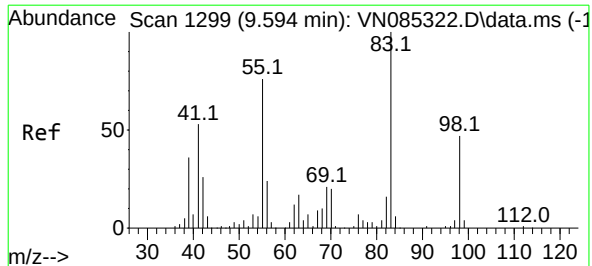
Ion Ratio Lower Upper

117 100

119 99.9 77.8 116.6

121 30.5 22.5 33.7





#39

Methylcyclohexane

Concen: 48.731 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 140749

Ion Ratio Lower Upper

83 100

55 74.7 60.7 91.1

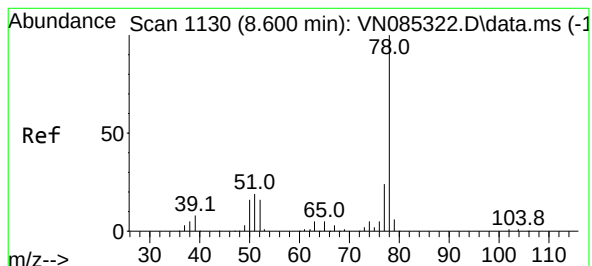
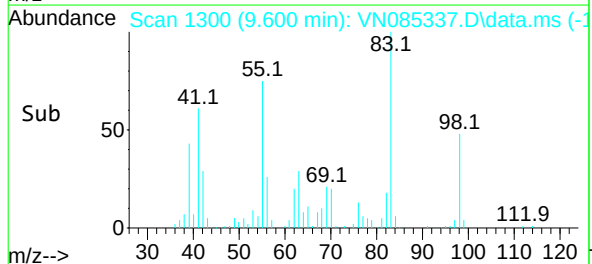
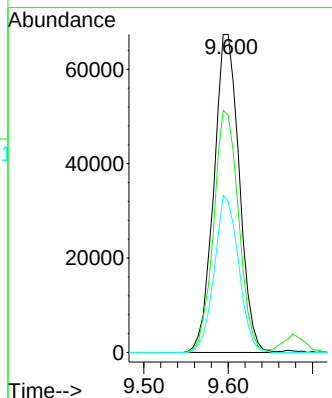
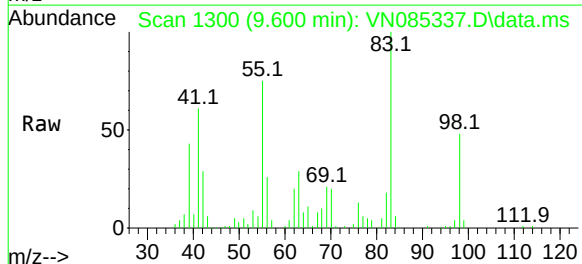
98 47.5 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#40

Benzene

Concen: 47.710 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VN085337.D

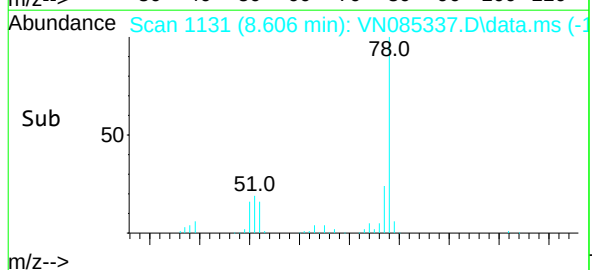
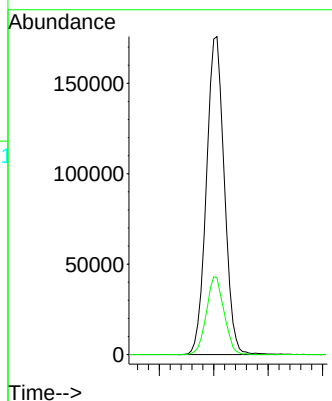
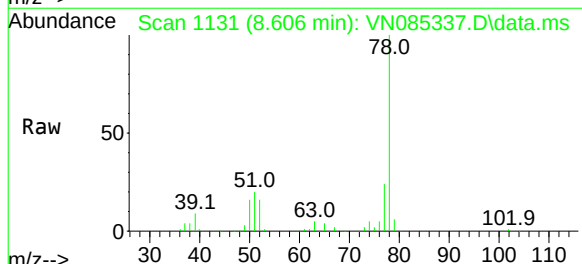
Acq: 27 Dec 2024 19:54

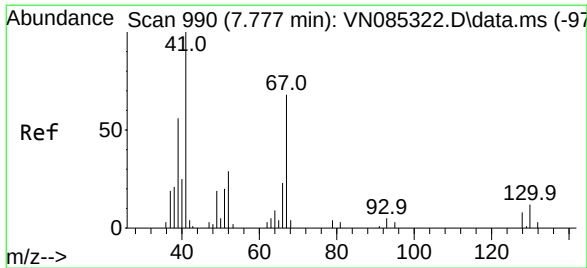
Tgt Ion: 78 Resp: 401557

Ion Ratio Lower Upper

78 100

77 24.2 19.0 28.4





#41

Methacrylonitrile

Concen: 50.926 ug/l

RT: 7.777 min Scan# 99

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 41 Resp: 72165

Ion Ratio Lower Upper

41 100

39 56.0 45.8 68.8

67 73.0 57.1 85.7

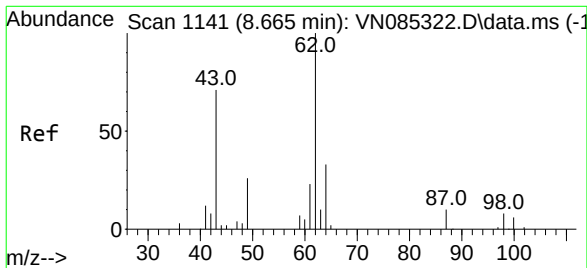
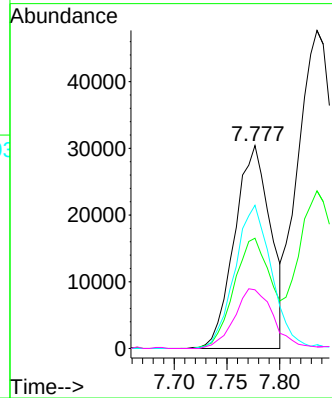
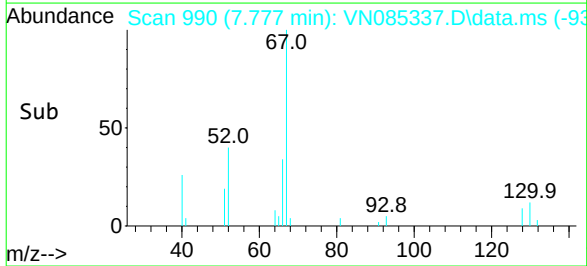
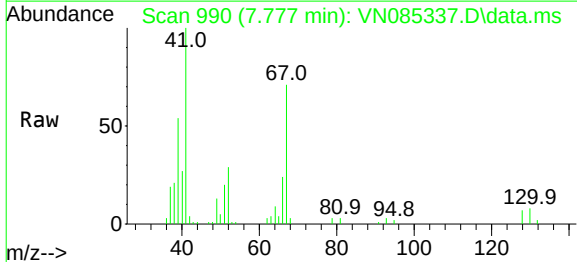
52 32.1 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#42

1,2-Dichloroethane

Concen: 47.009 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN085337.D

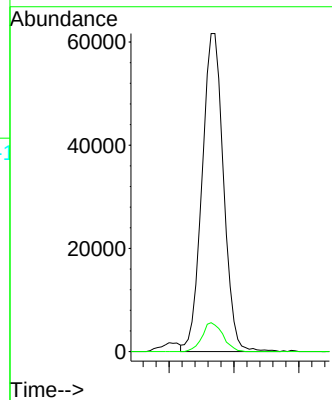
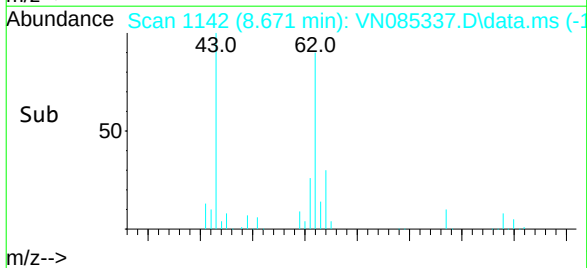
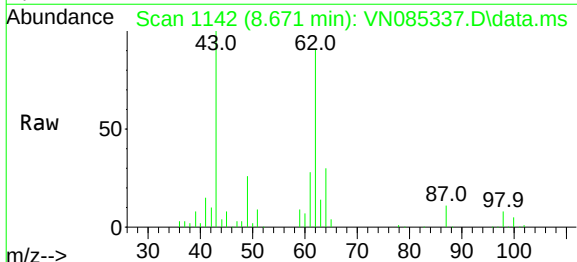
Acq: 27 Dec 2024 19:54

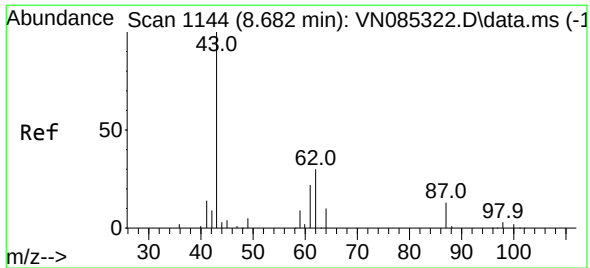
Tgt Ion: 62 Resp: 141854

Ion Ratio Lower Upper

62 100

98 8.8 0.0 17.6





#43

Isopropyl Acetate

Concen: 56.698 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 258318

Ion Ratio Lower Upper

43 100

61 22.9 20.8 31.2

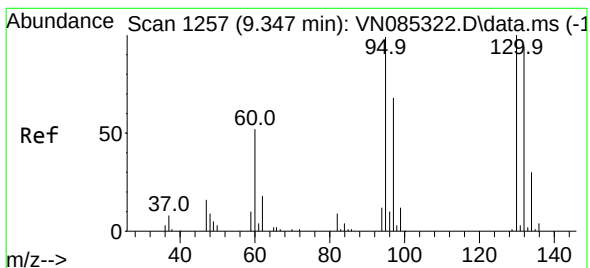
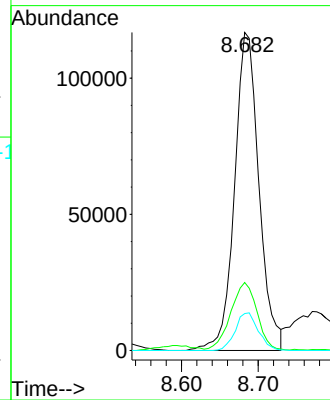
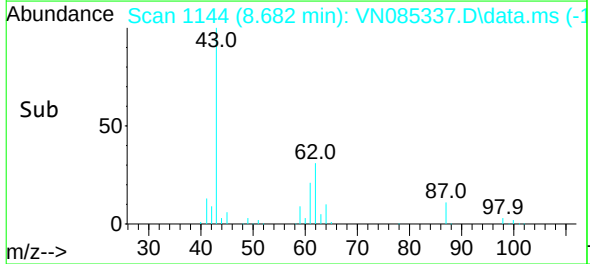
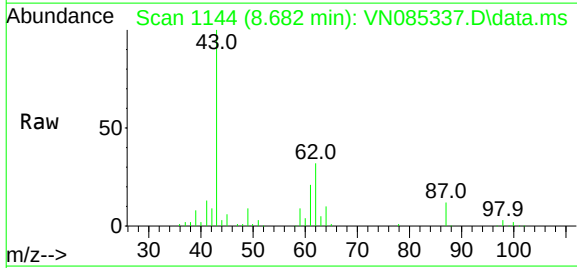
87 11.2 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#44

Trichloroethene

Concen: 45.091 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.000 min

Lab File: VN085337.D

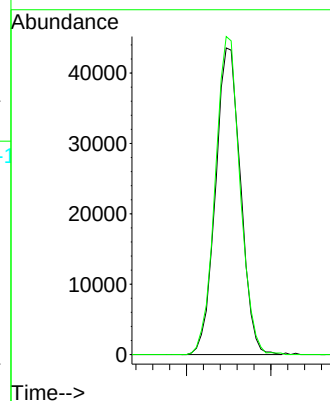
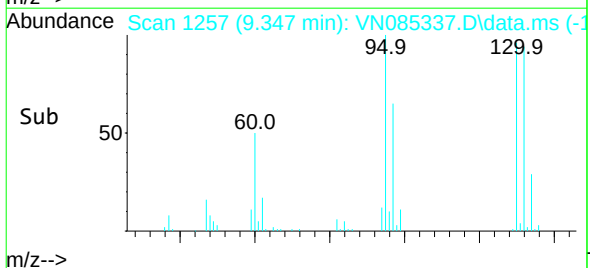
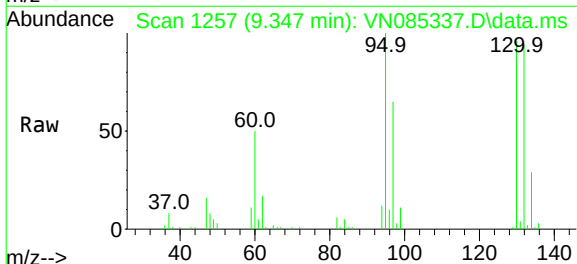
Acq: 27 Dec 2024 19:54

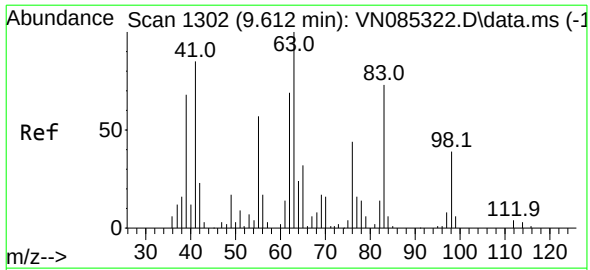
Tgt Ion:130 Resp: 89851

Ion Ratio Lower Upper

130 100

95 103.7 0.0 197.8





#45

1,2-Dichloropropane

Concen: 47.168 ug/l

RT: 9.618 min Scan# 1302

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 63 Resp: 100779

Ion Ratio Lower Upper

63 100

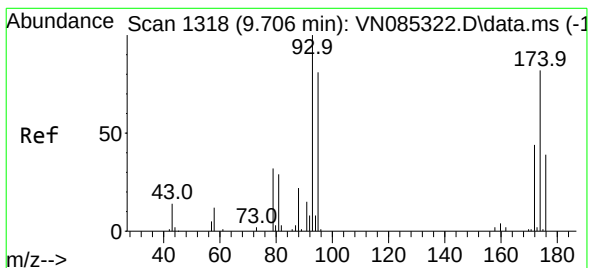
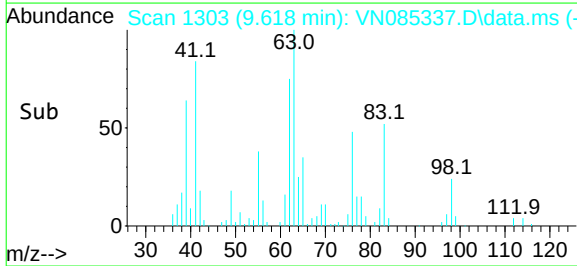
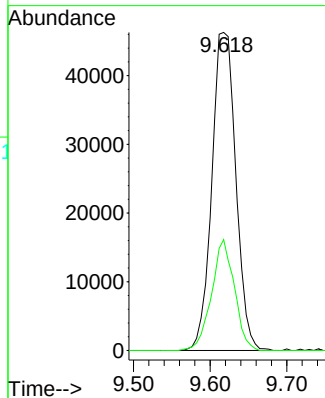
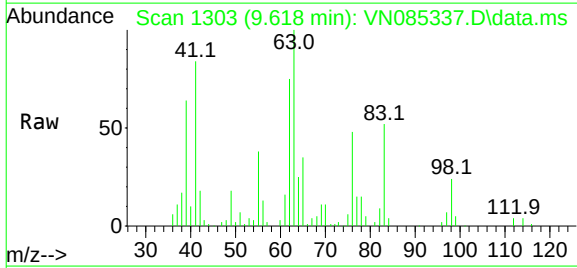
65 34.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#46

Dibromomethane

Concen: 47.348 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

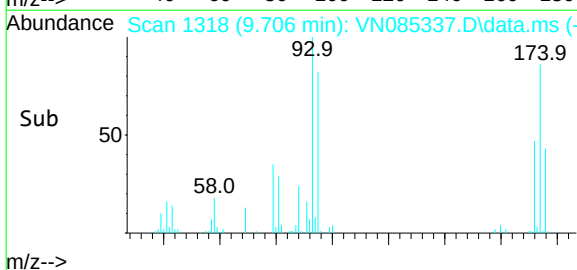
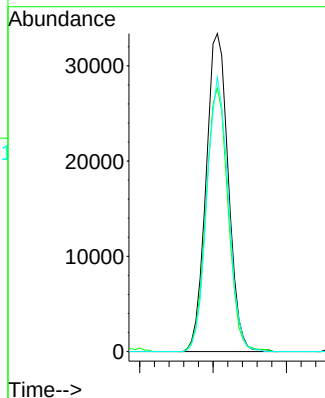
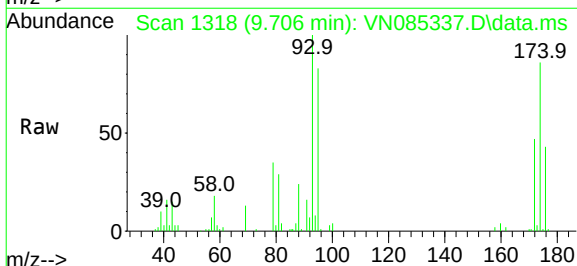
Tgt Ion: 93 Resp: 70356

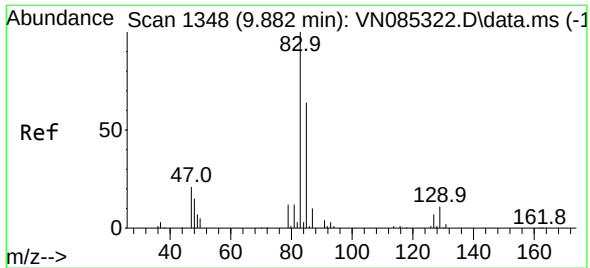
Ion Ratio Lower Upper

93 100

95 82.3 65.3 97.9

174 83.3 66.4 99.6





#47

Bromodichloromethane

Concen: 47.752 ug/l

RT: 9.888 min Scan# 1348

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 83 Resp: 147480

Ion Ratio Lower Upper

83 100

85 61.8 51.0 76.4

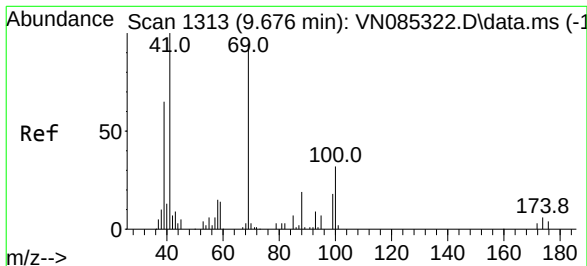
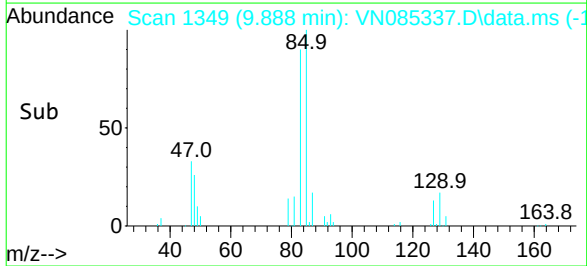
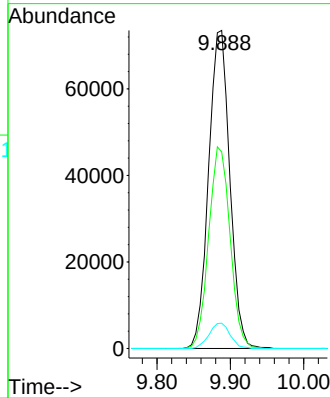
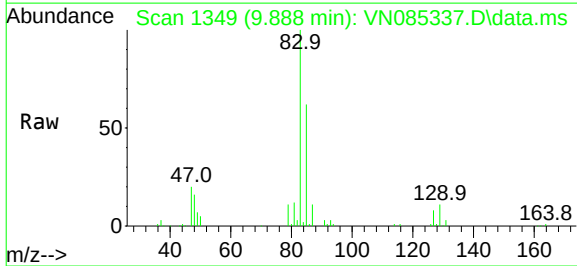
127 8.0 5.8 8.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#48

Methyl methacrylate

Concen: 54.215 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

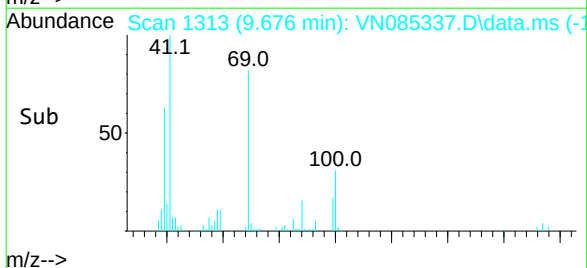
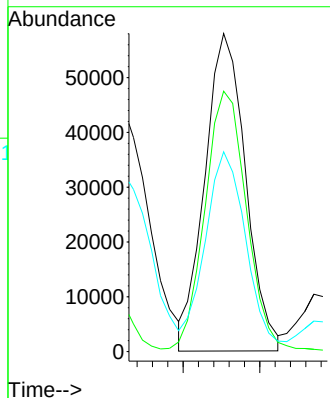
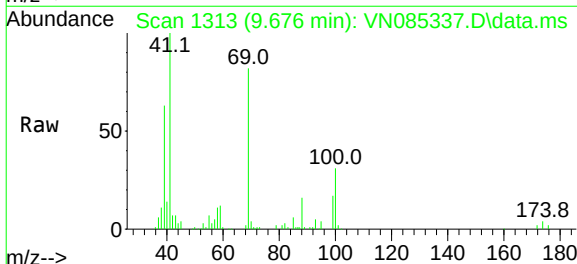
Tgt Ion: 41 Resp: 107180

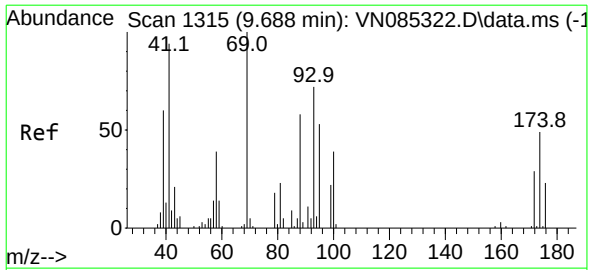
Ion Ratio Lower Upper

41 100

69 84.4 67.7 101.5

39 63.7 51.2 76.8





#49

1,4-Dioxane

Concen: 1119.134 ug/l

RT: 9.694 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 88 Resp: 33381

Ion Ratio Lower Upper

88 100

43 30.6 22.1 33.1

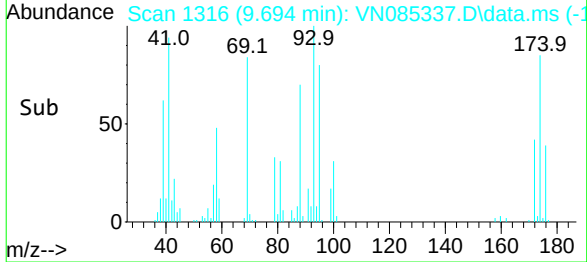
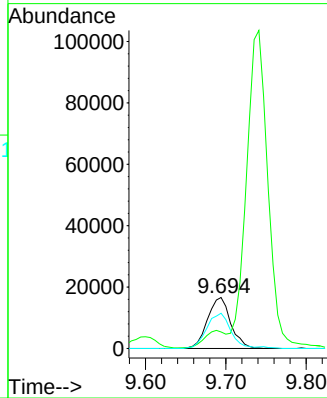
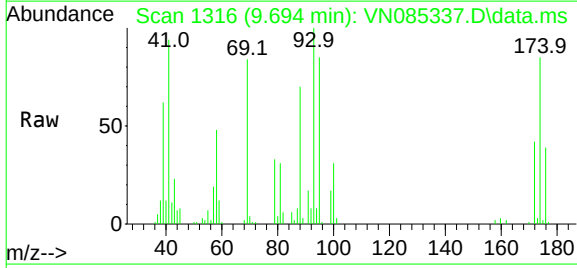
58 73.0 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#50

Toluene-d8

Concen: 50.937 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085337.D

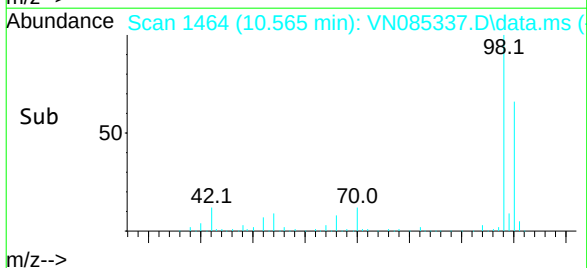
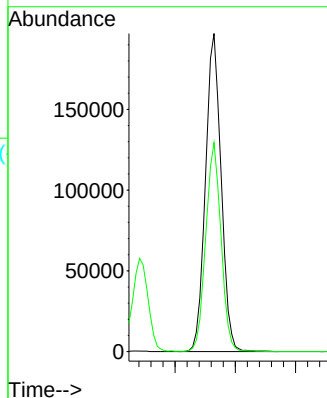
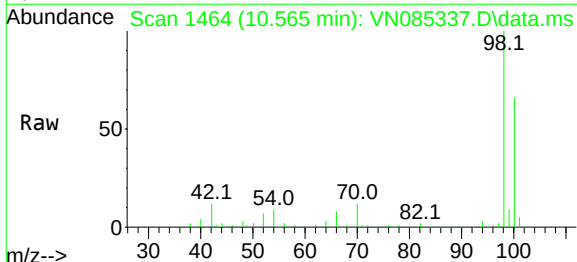
Acq: 27 Dec 2024 19:54

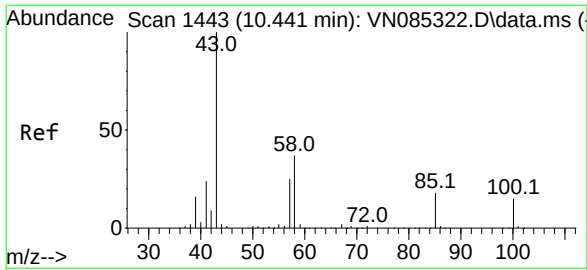
Tgt Ion: 98 Resp: 355381

Ion Ratio Lower Upper

98 100

100 64.2 51.5 77.3





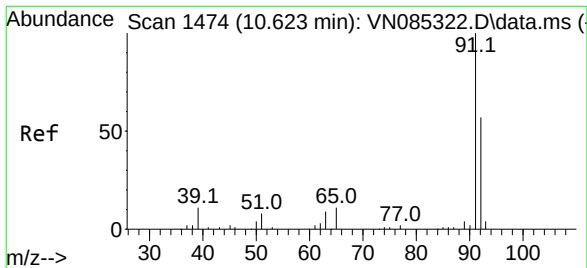
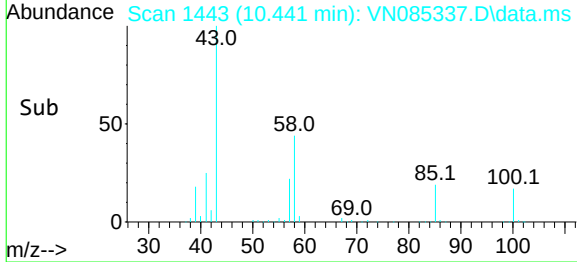
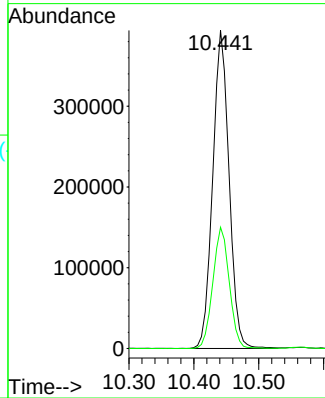
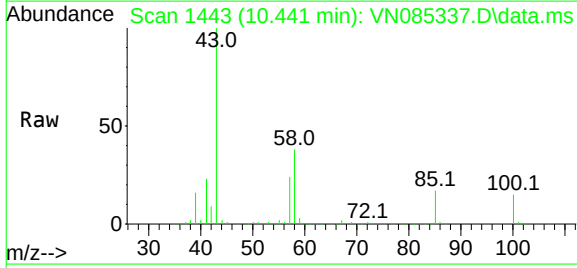
#51
4-Methyl-2-Pentanone
Concen: 268.651 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 687835
Ion Ratio Lower Upper
43 100
58 38.4 30.3 45.5

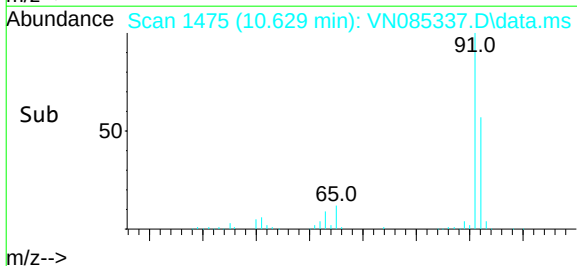
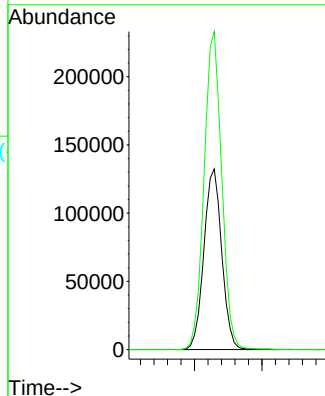
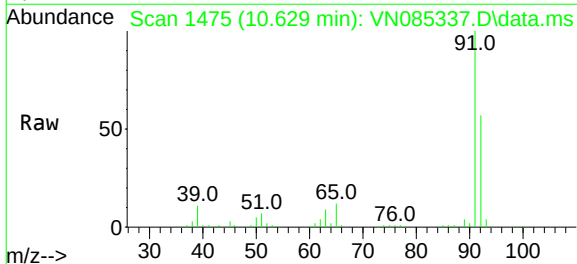
Manual Integrations
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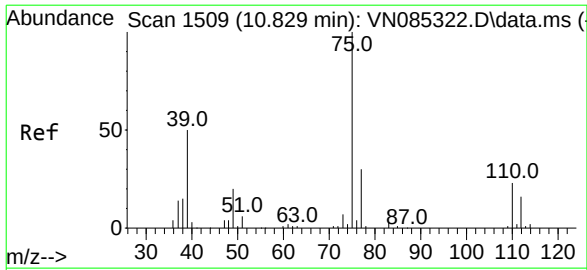
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#52
Toluene
Concen: 48.552 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

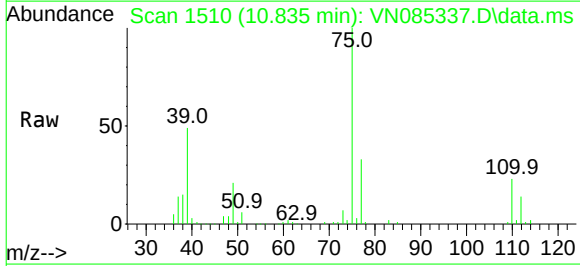
Tgt Ion: 92 Resp: 243317
Ion Ratio Lower Upper
92 100
91 174.0 140.2 210.4





#53
t-1,3-Dichloropropene
Concen: 49.694 ug/l
RT: 10.835 min Scan# 1509
Delta R.T. 0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

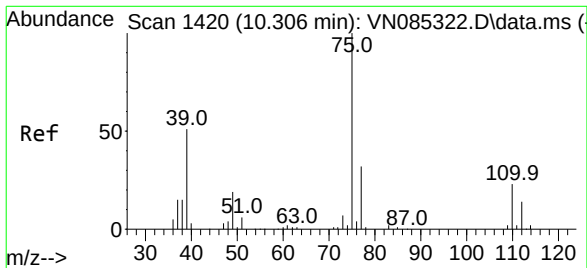
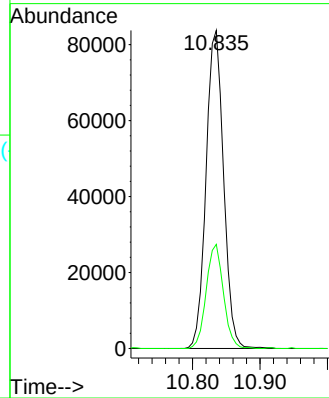
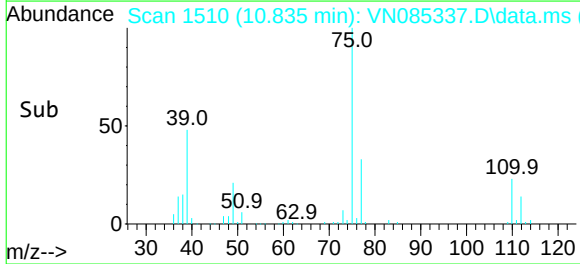
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 75 Resp: 150931
Ion Ratio Lower Upper
75 100
77 32.7 23.8 35.6

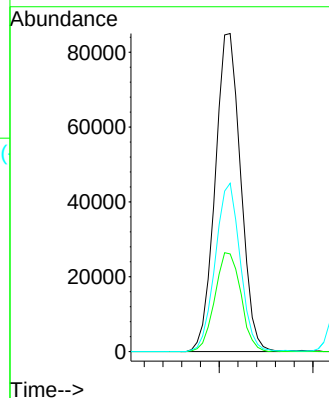
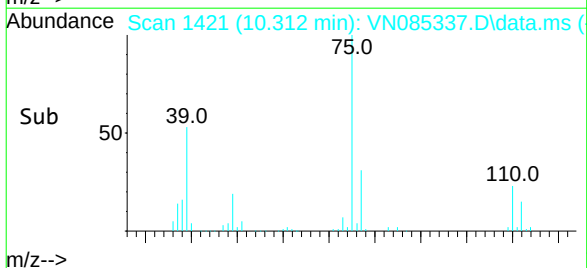
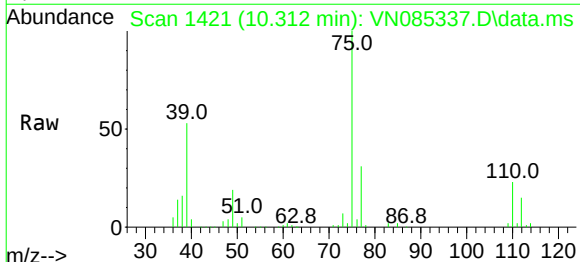
Manual Integrations
APPROVED

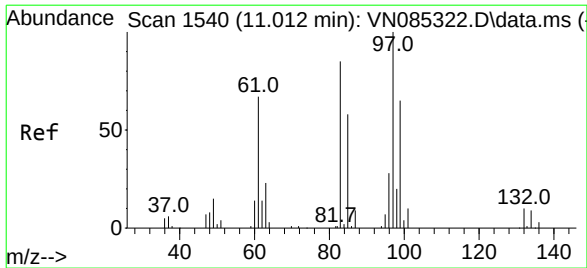
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#54
cis-1,3-Dichloropropene
Concen: 48.936 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Tgt Ion: 75 Resp: 160718
Ion Ratio Lower Upper
75 100
77 30.7 25.5 38.3
39 52.9 40.5 60.7





#55

1,1,2-Trichloroethane

Concen: 48.764 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 97 Resp: 92267

Ion Ratio Lower Upper

97 100

83 86.6 67.7 101.5

85 54.6 46.2 69.4

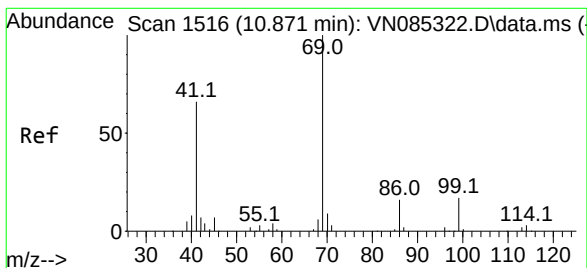
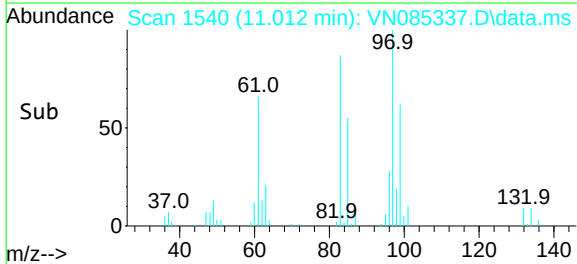
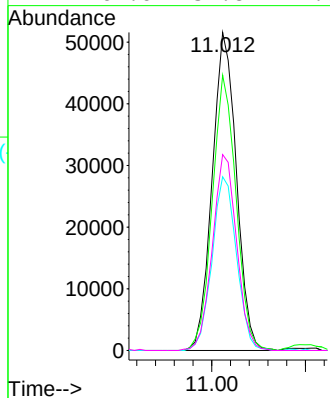
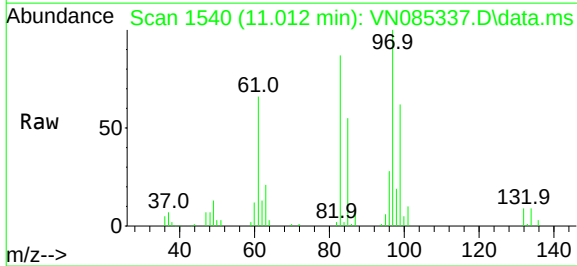
99 61.6 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#56

Ethyl methacrylate

Concen: 56.392 ug/l

RT: 10.870 min Scan# 1516

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

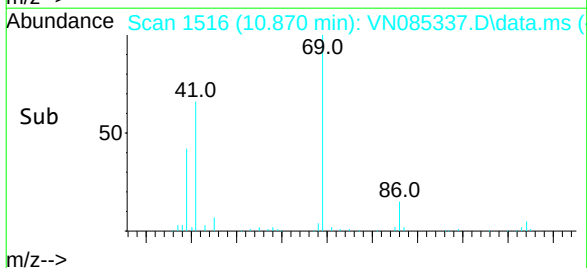
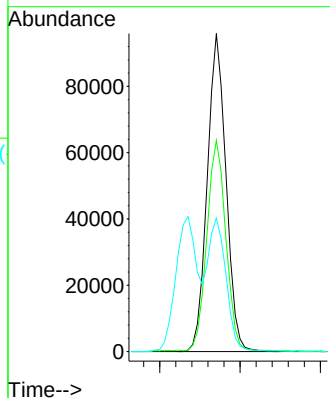
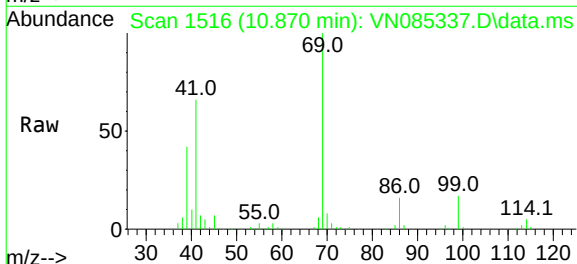
Tgt Ion: 69 Resp: 155398

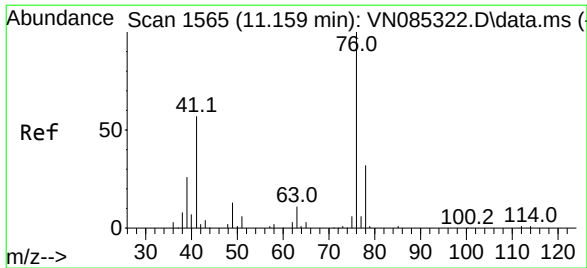
Ion Ratio Lower Upper

69 100

41 68.3 54.3 81.5

39 40.4 32.0 48.0





#57

1,3-Dichloropropane

Concen: 48.684 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 76 Resp: 161673

Ion Ratio Lower Upper

76 100

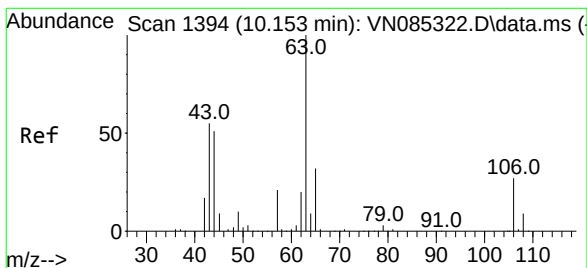
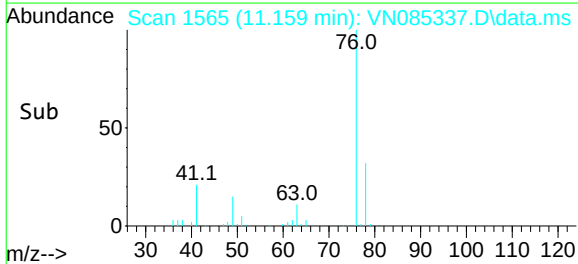
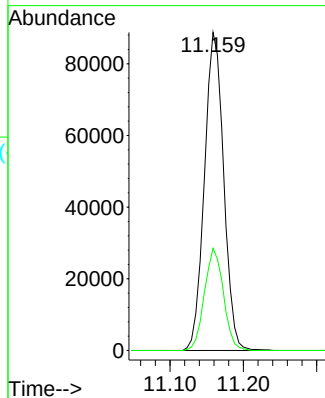
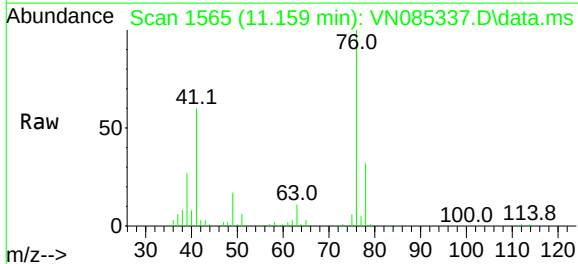
78 31.7 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#58

2-Chloroethyl Vinyl ether

Concen: 270.032 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VN085337.D

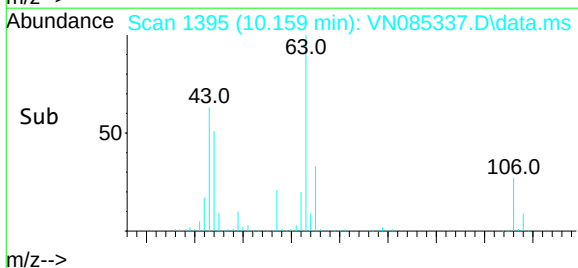
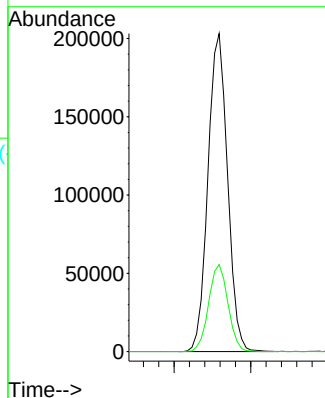
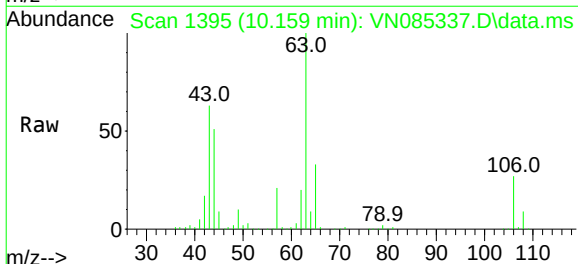
Acq: 27 Dec 2024 19:54

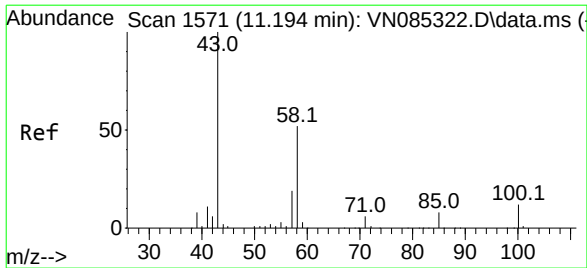
Tgt Ion: 63 Resp: 360017

Ion Ratio Lower Upper

63 100

106 27.0 22.1 33.1





#59

2-Hexanone

Concen: 280.111 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 43 Resp: 497580

Ion Ratio Lower Upper

43 100

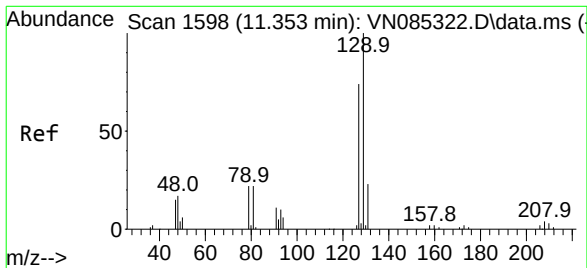
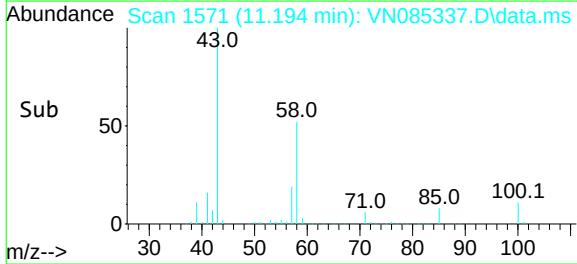
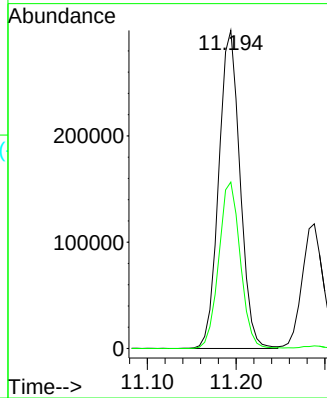
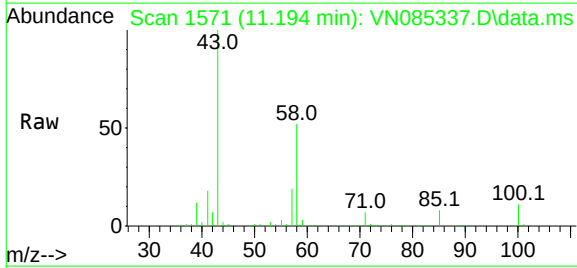
58 52.9 26.5 79.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#60

Dibromochloromethane

Concen: 51.180 ug/l

RT: 11.353 min Scan# 1598

Delta R.T. -0.000 min

Lab File: VN085337.D

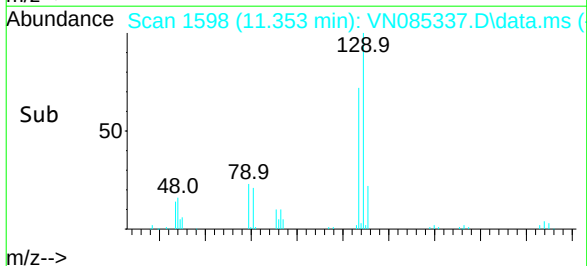
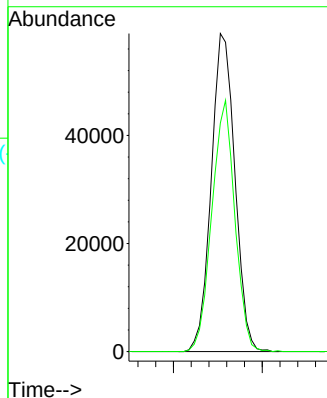
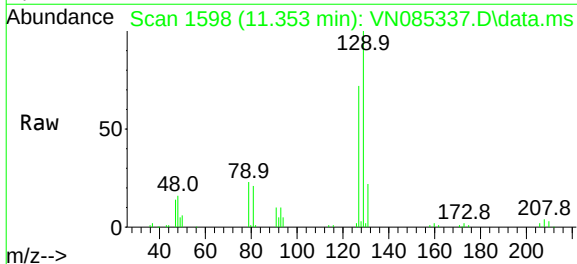
Acq: 27 Dec 2024 19:54

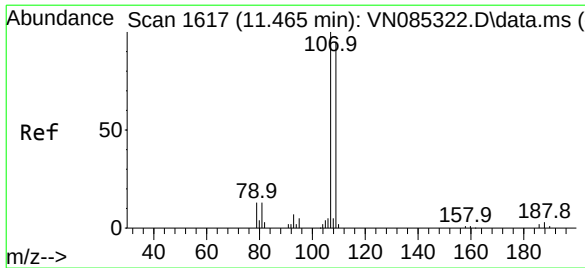
Tgt Ion:129 Resp: 109072

Ion Ratio Lower Upper

129 100

127 76.8 38.3 114.9





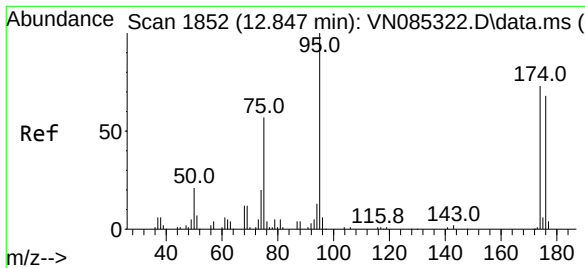
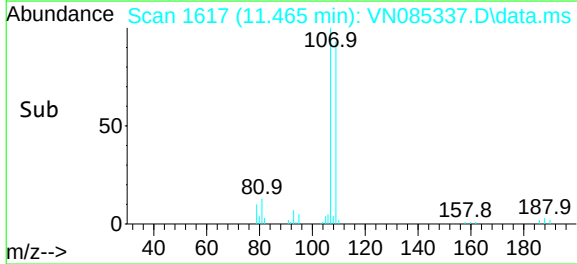
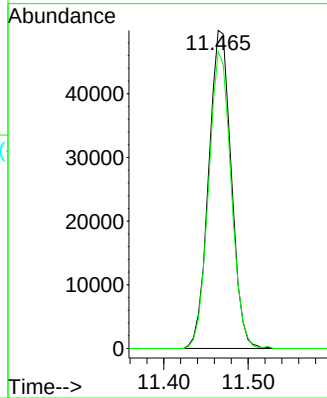
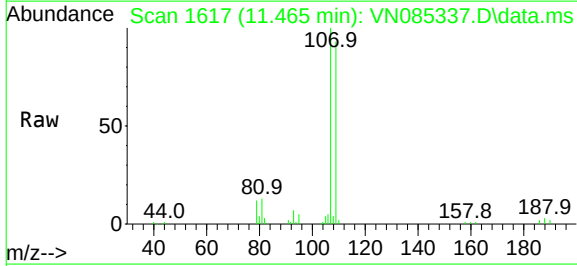
#61
1,2-Dibromoethane
Concen: 49.680 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 107 Resp: 92998
Ion Ratio Lower Upper
107 100
109 93.0 74.9 112.3

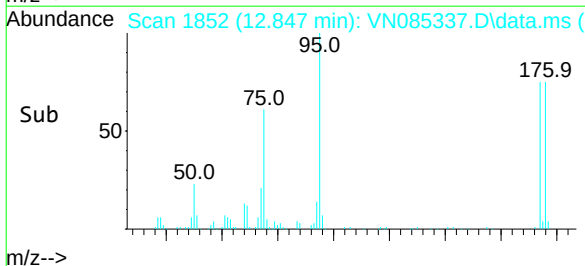
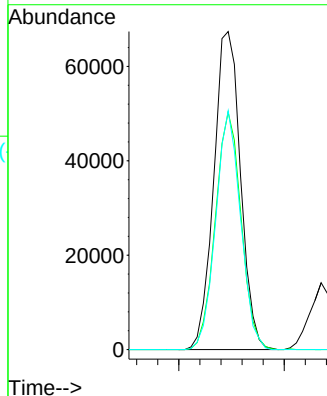
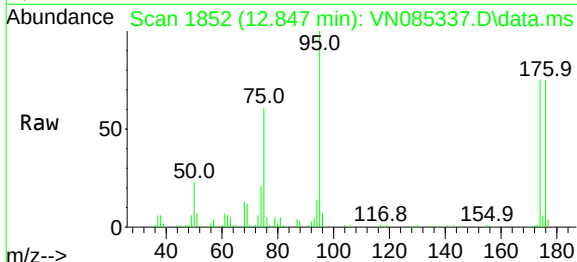
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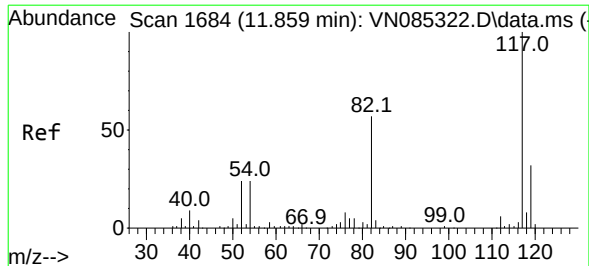
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#62
4-Bromofluorobenzene
Concen: 51.260 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

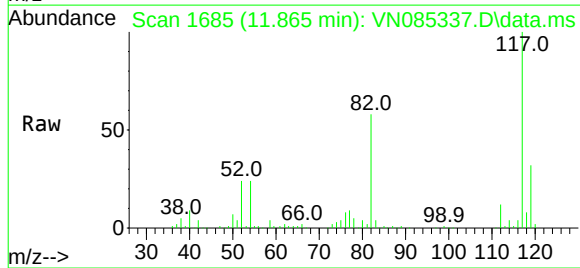
Tgt Ion: 95 Resp: 118775
Ion Ratio Lower Upper
95 100
174 71.9 0.0 143.2
176 69.8 0.0 135.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1684
Delta R.T. 0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

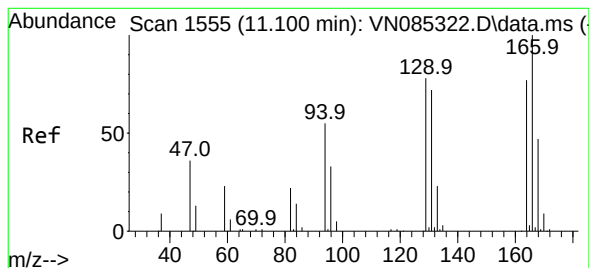
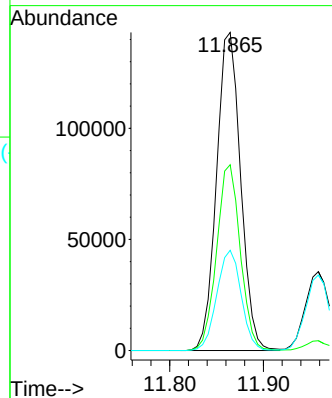
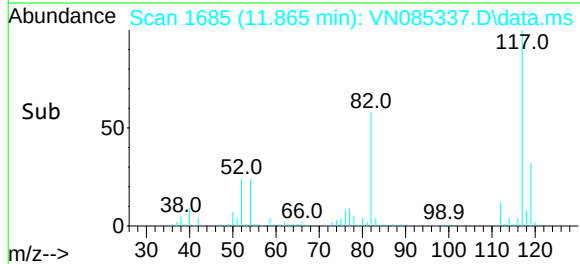
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:117 Resp: 256130
Ion Ratio Lower Upper
117 100
82 58.4 45.7 68.5
119 31.5 25.8 38.8

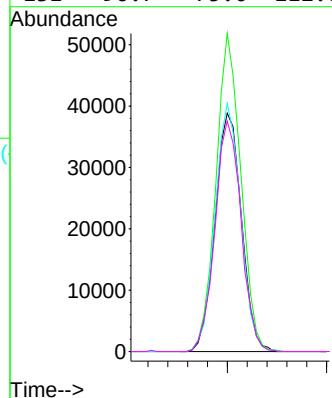
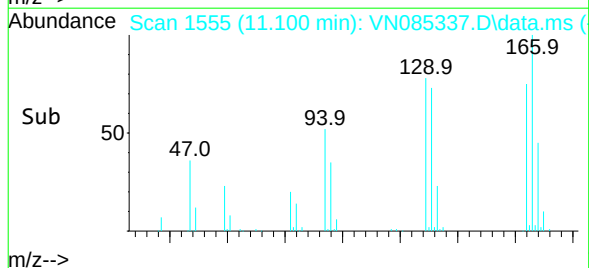
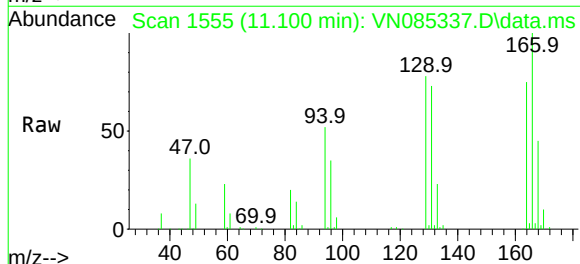
Manual Integrations
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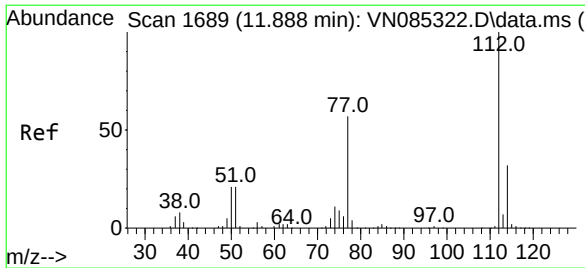
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#64
Tetrachloroethene
Concen: 44.300 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Tgt Ion:164 Resp: 71896
Ion Ratio Lower Upper
164 100
166 133.4 104.0 156.0
129 104.0 81.3 121.9
131 96.7 75.0 112.6





#65

Chlorobenzene

Concen: 47.277 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:112 Resp: 261676

Ion Ratio Lower Upper

112 100

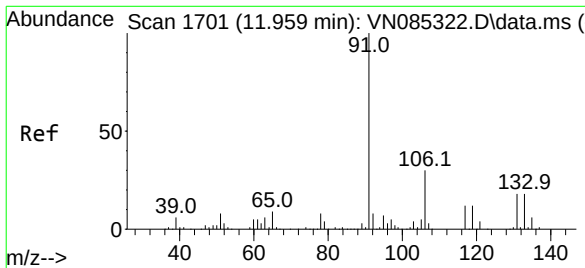
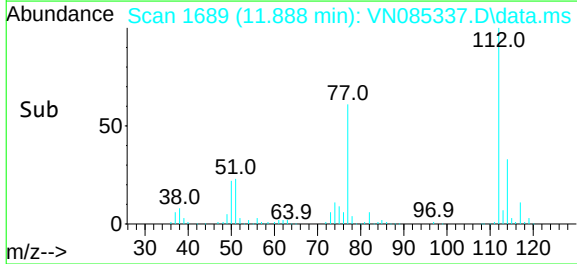
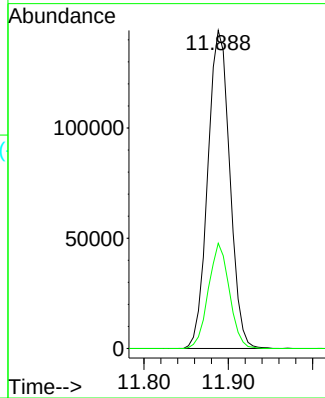
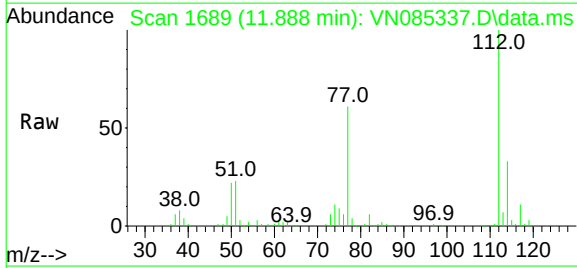
114 33.1 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 49.750 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

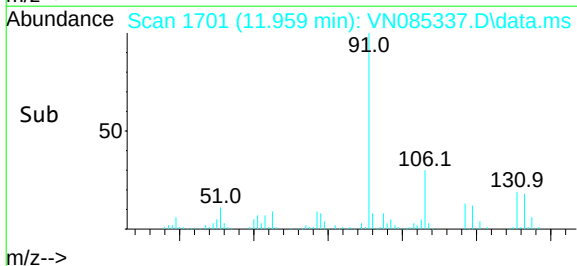
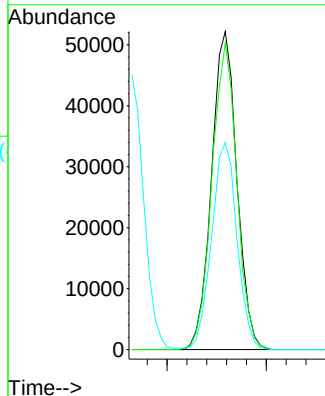
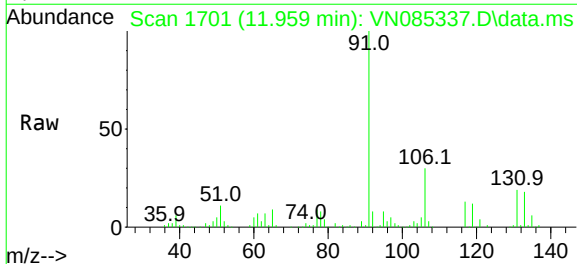
Tgt Ion:131 Resp: 92418

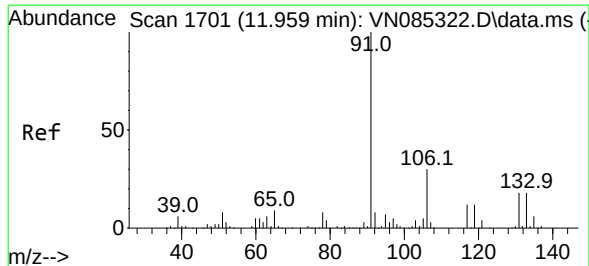
Ion Ratio Lower Upper

131 100

133 94.6 48.3 144.9

119 65.3 33.4 100.1





#67

Ethyl Benzene

Concen: 50.123 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 461376

Ion Ratio Lower Upper

91 100

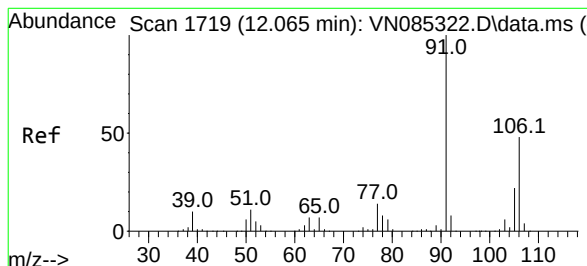
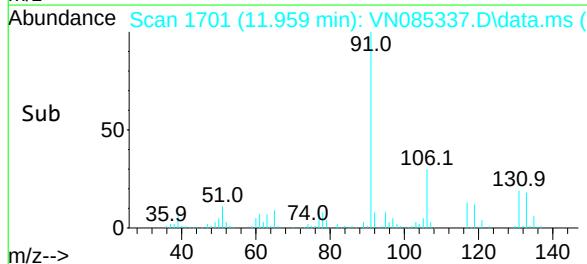
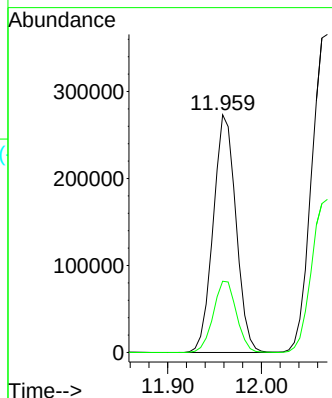
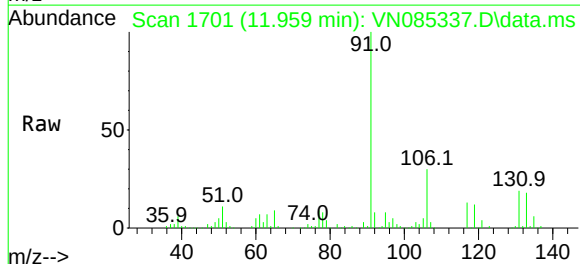
106 30.0 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#68

m/p-Xylenes

Concen: 104.245 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085337.D

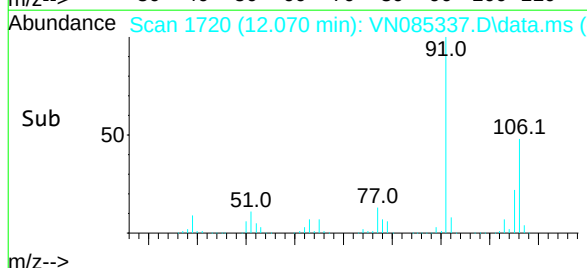
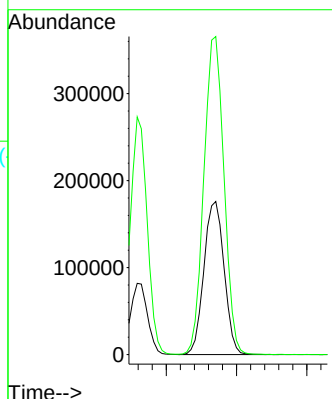
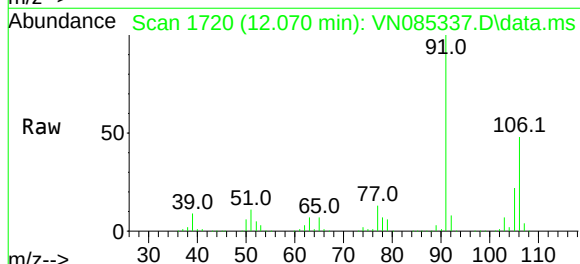
Acq: 27 Dec 2024 19:54

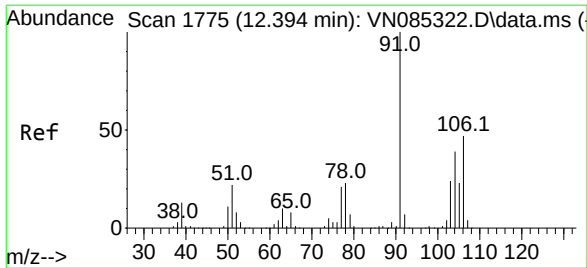
Tgt Ion:106 Resp: 351159

Ion Ratio Lower Upper

106 100

91 206.7 165.2 247.8





#69

o-Xylene

Concen: 51.838 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:106 Resp: 168921

Ion Ratio Lower Upper

106 100

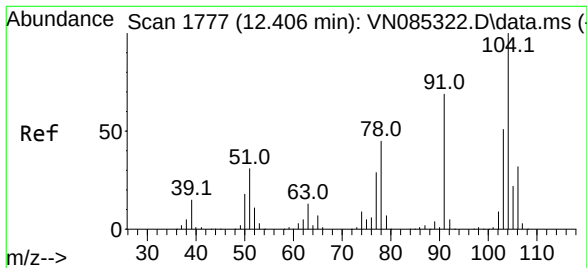
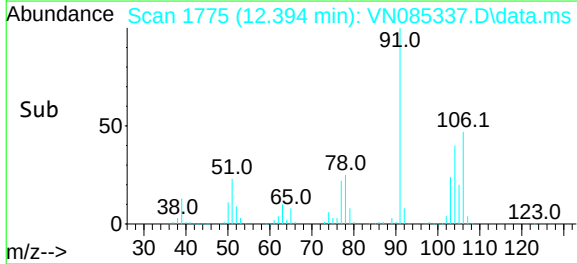
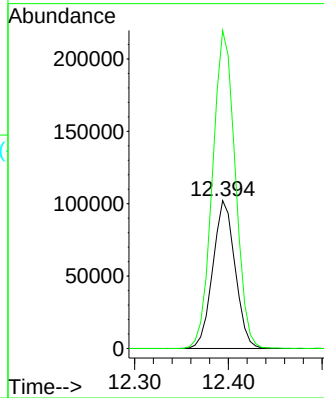
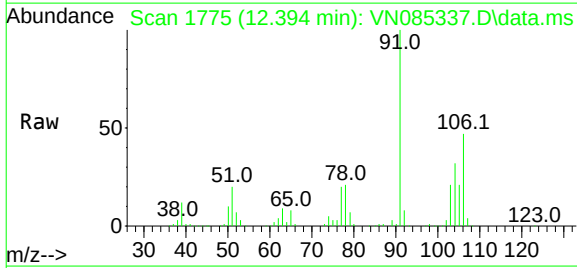
91 219.0 107.3 321.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#70

Styrene

Concen: 54.081 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

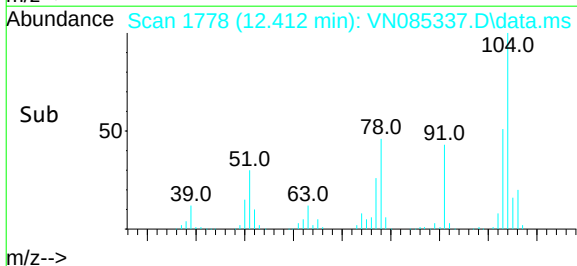
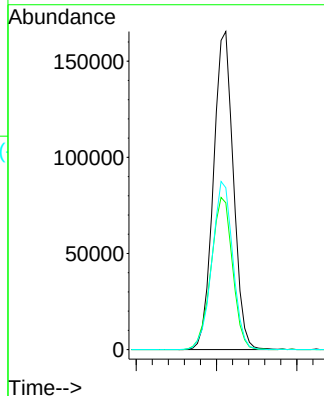
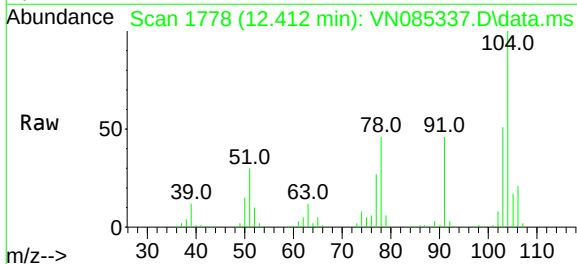
Tgt Ion:104 Resp: 285621

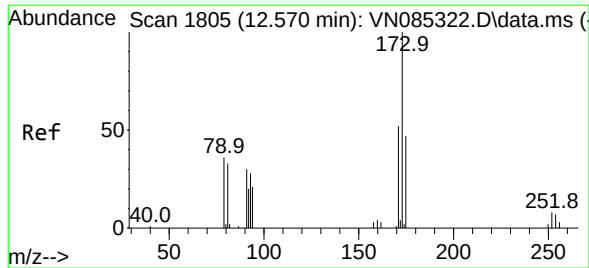
Ion Ratio Lower Upper

104 100

78 51.4 40.7 61.1

103 55.0 44.1 66.1





#71

Bromoform

Concen: 53.619 ug/l

RT: 12.576 min Scan# 1805

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:173 Resp: 68988

Ion Ratio Lower Upper

173 100

175 48.5 24.4 73.4

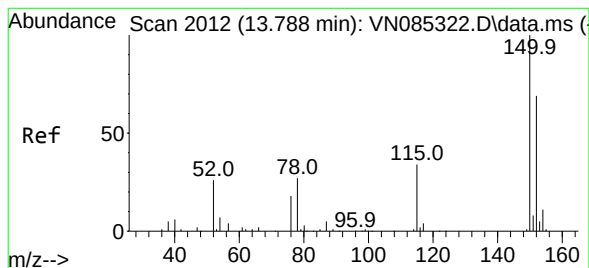
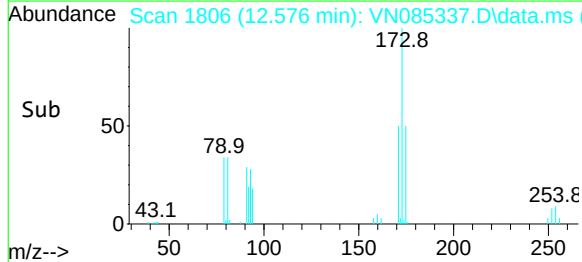
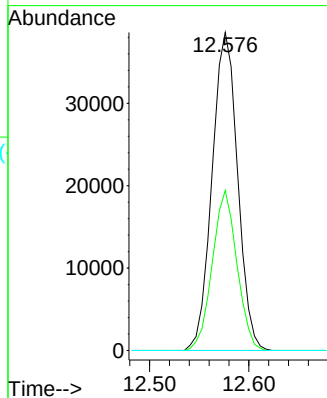
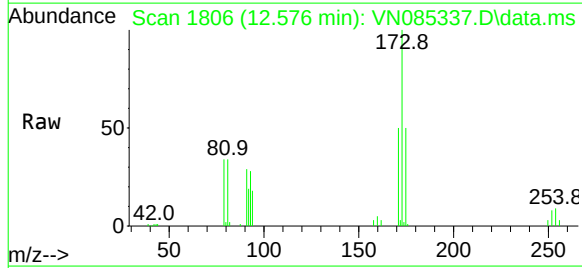
254 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

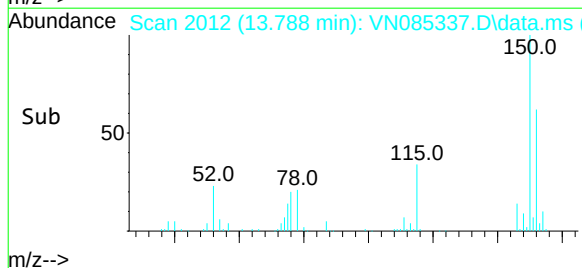
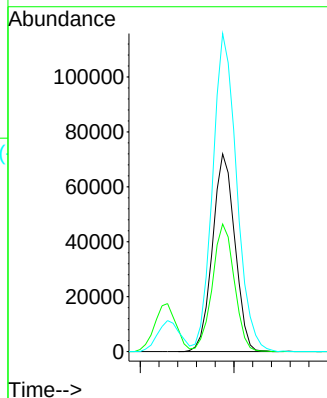
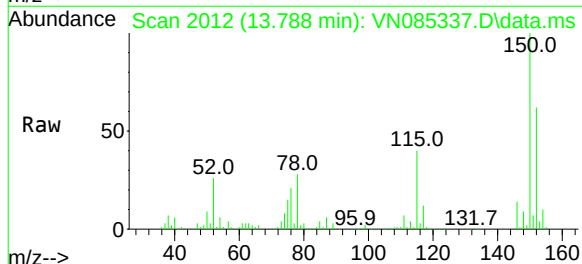
Tgt Ion:152 Resp: 119158

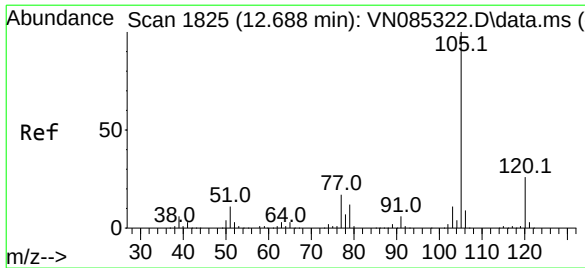
Ion Ratio Lower Upper

152 100

115 63.5 30.4 91.3

150 173.4 0.0 345.0





#73

Isopropylbenzene

Concen: 50.287 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 105 Resp: 430895

Ion Ratio Lower Upper

105 100

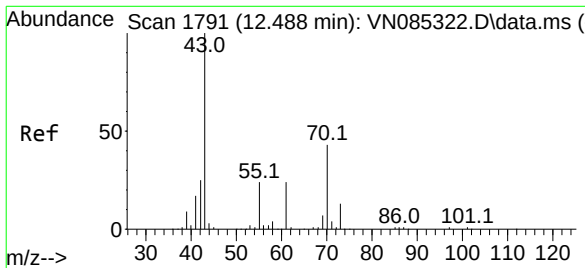
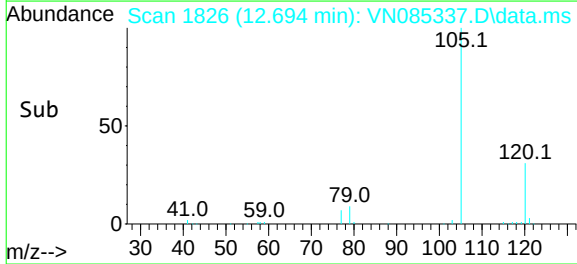
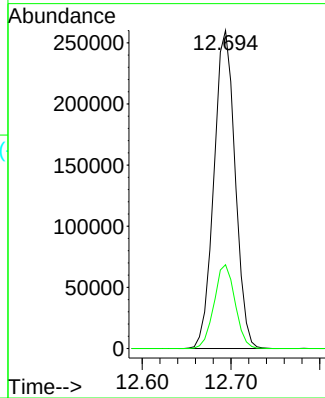
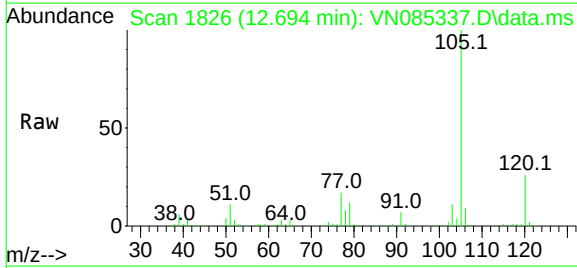
120 26.0 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#74

N-ethyl acetate

Concen: 56.680 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Tgt Ion: 43 Resp: 207891

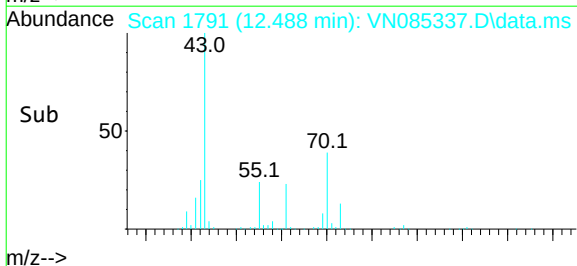
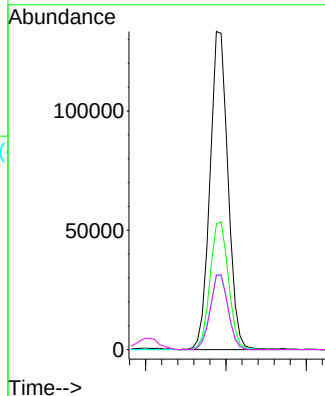
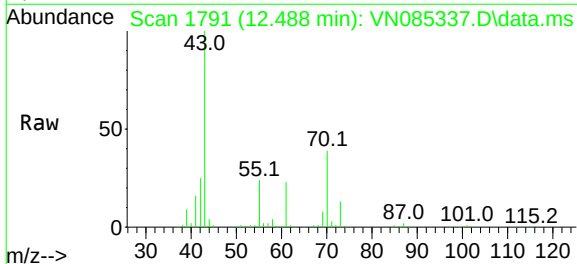
Ion Ratio Lower Upper

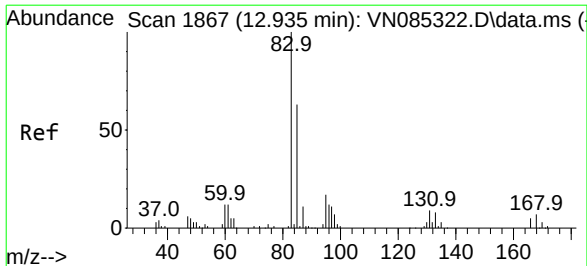
43 100

70 41.0 33.4 50.0

55 23.8 19.2 28.8

61 23.1 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 49.623 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

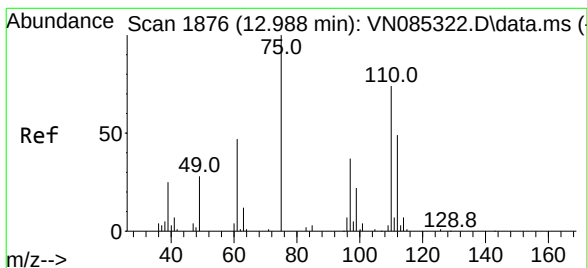
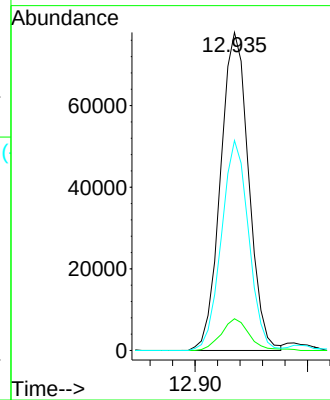
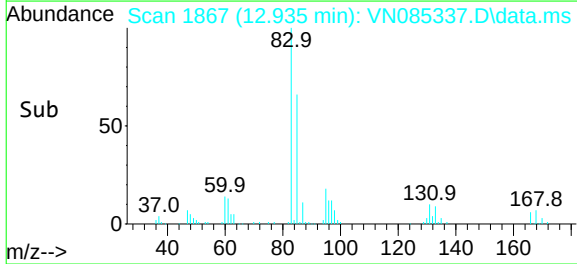
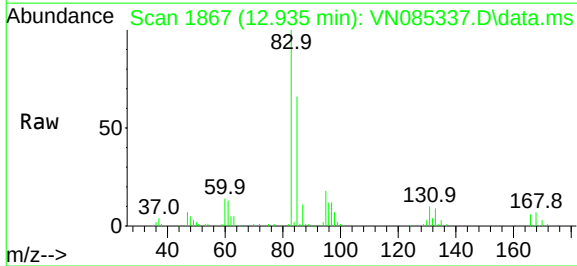
Tgt Ion:	83	Resp:	135425
Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.4
85	63.9	32.6	98.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#76

1,2,3-Trichloropropane

Concen: 54.860 ug/l m

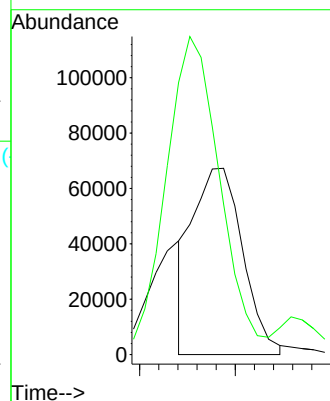
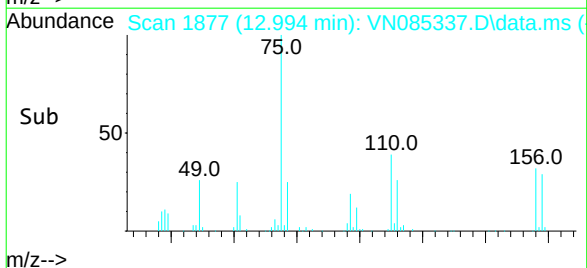
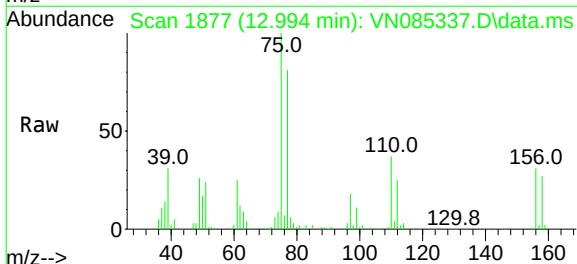
RT: 12.994 min Scan# 1877

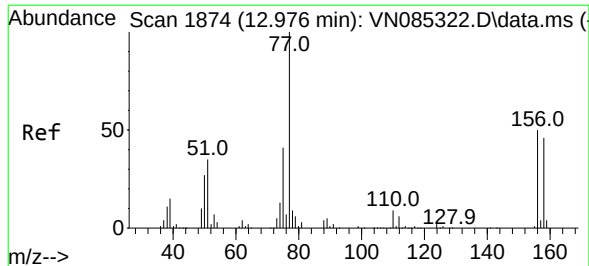
Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

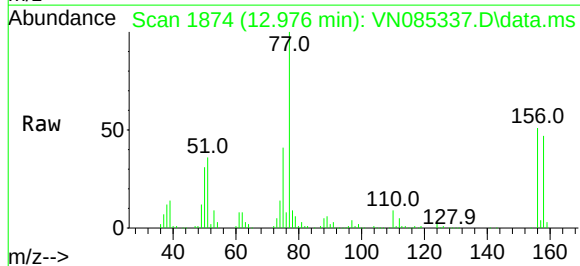
Tgt Ion:	75	Resp:	122072
Ion	Ratio	Lower	Upper
75	100		
77	186.0	98.1	294.3





#77
Bromobenzene
Concen: 45.760 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

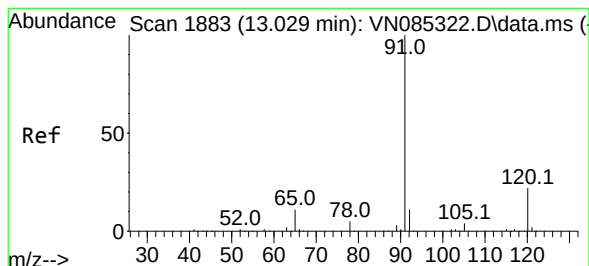
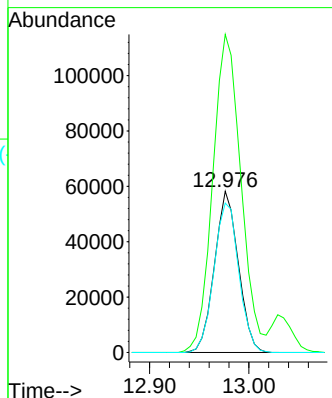
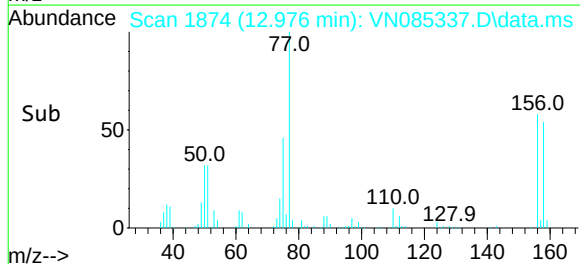
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion: 156 Resp: 97145
Ion Ratio Lower Upper
156 100
77 233.7 114.0 342.0
158 96.8 47.6 142.8

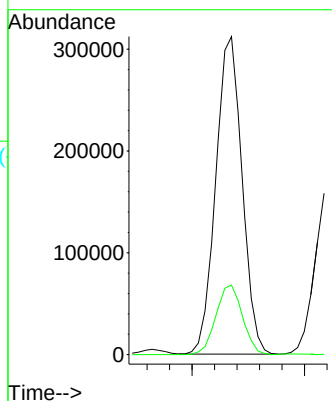
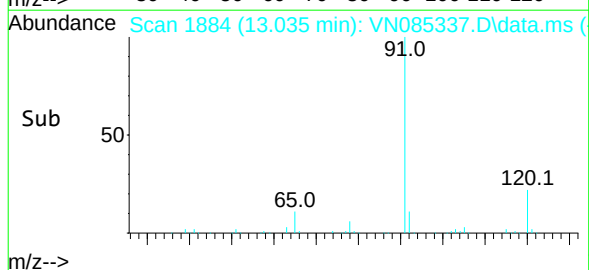
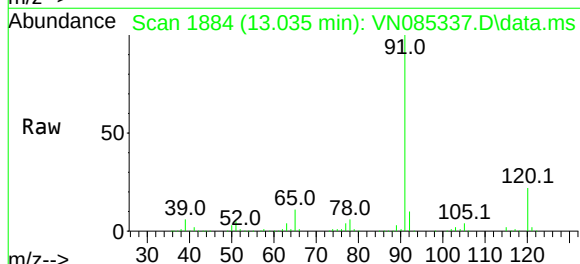
Manual Integrations
APPROVED

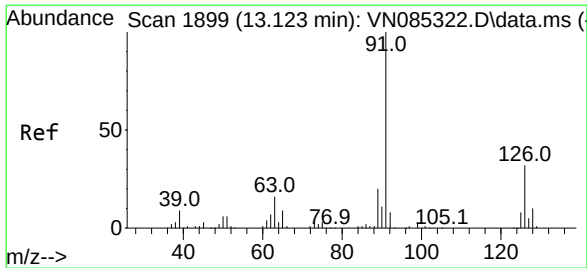
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#78
n-propylbenzene
Concen: 50.717 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Tgt Ion: 91 Resp: 506572
Ion Ratio Lower Upper
91 100
120 22.0 10.9 32.9





#79

2-Chlorotoluene

Concen: 49.202 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 309290

Ion Ratio Lower Upper

91 100

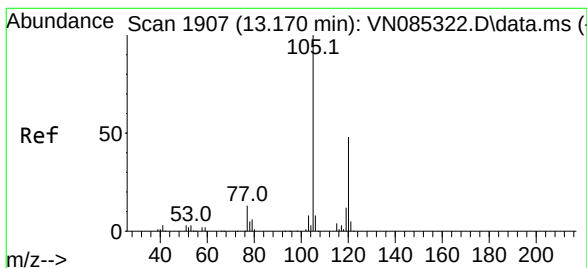
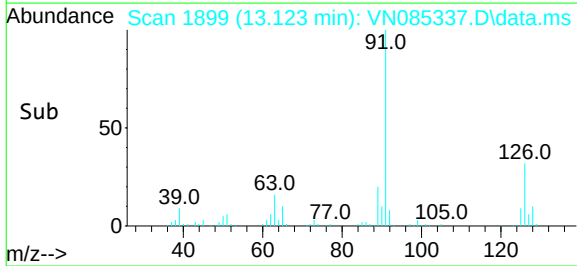
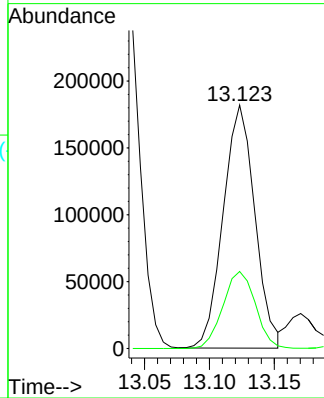
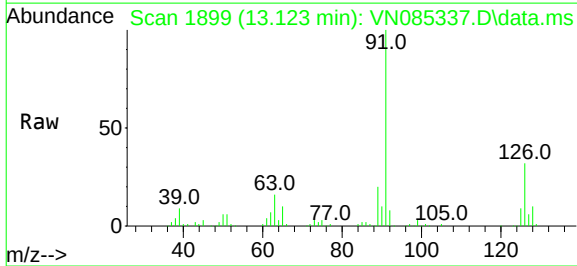
126 32.4 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#80

1,3,5-Trimethylbenzene

Concen: 51.871 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN085337.D

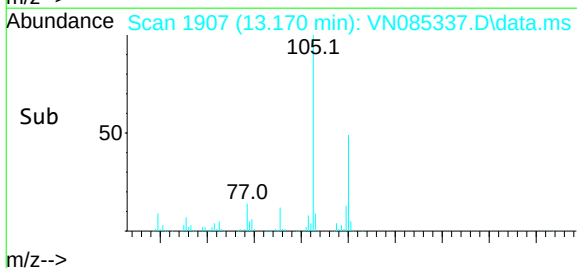
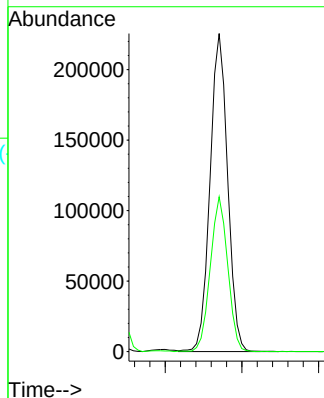
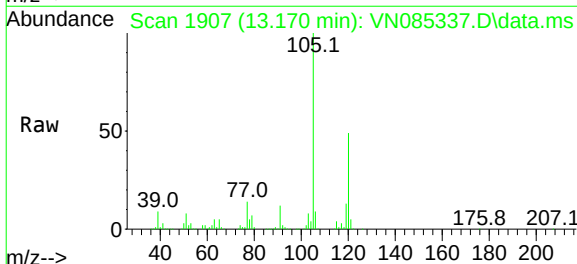
Acq: 27 Dec 2024 19:54

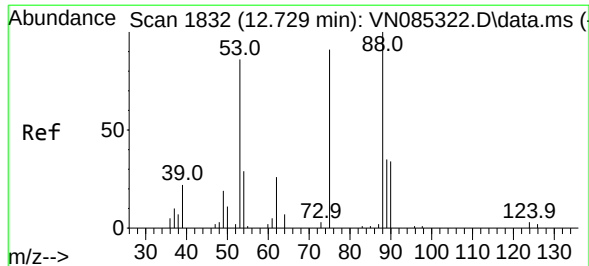
Tgt Ion:105 Resp: 359513

Ion Ratio Lower Upper

105 100

120 48.2 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 53.330 ug/l

RT: 12.735 min Scan# 1832

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

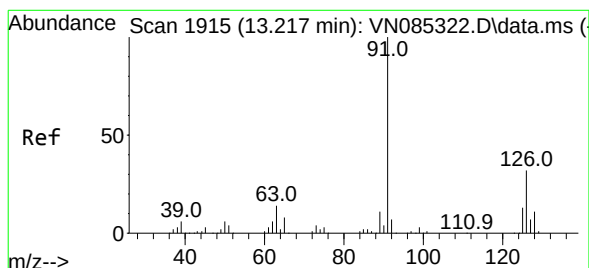
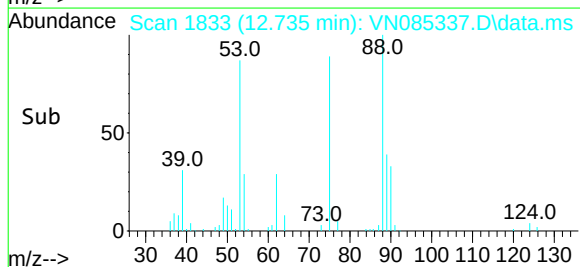
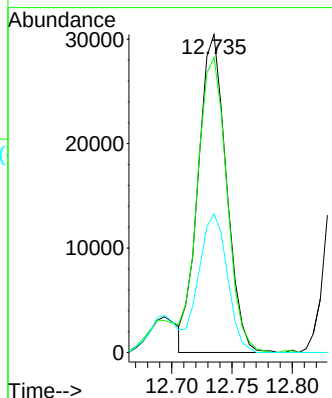
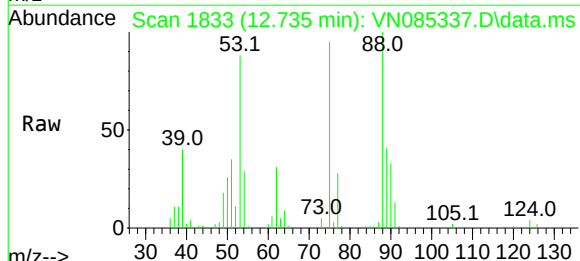
Tgt Ion:	75	Resp:	49551
Ion	Ratio	Lower	Upper
75	100		
53	107.9	80.0	120.0
89	44.8	35.8	53.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#82

4-Chlorotoluene

Concen: 49.151 ug/l

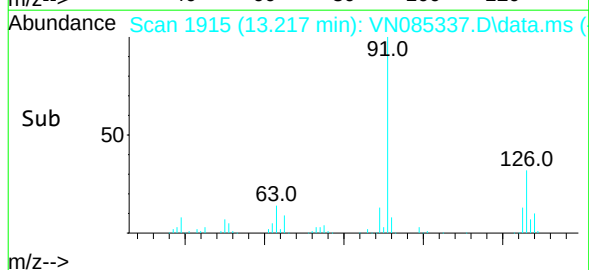
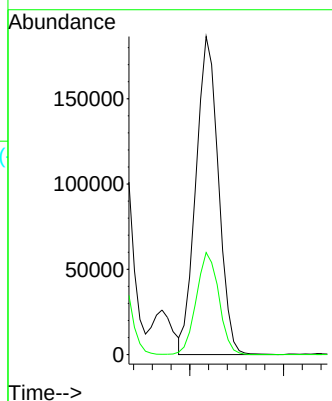
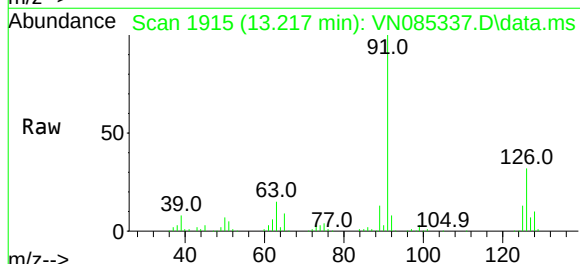
RT: 13.217 min Scan# 1915

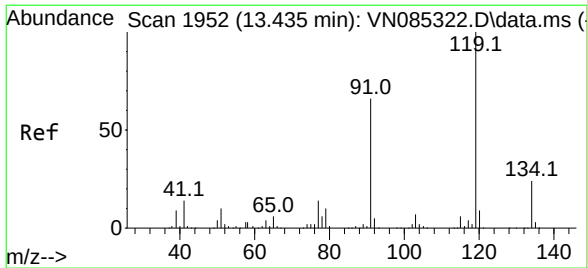
Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Tgt Ion:	91	Resp:	311175
Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.4	49.4





#83

tert-Butylbenzene

Concen: 49.875 ug/l

RT: 13.435 min Scan# 19

Delta R.T. -0.000 min

Lab File: VN085337.D

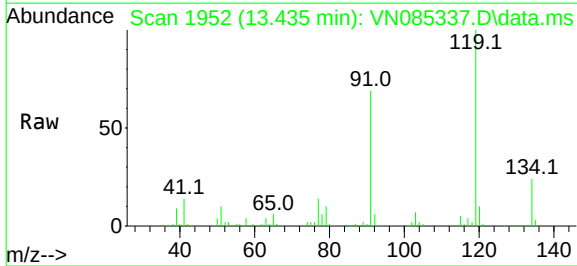
Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

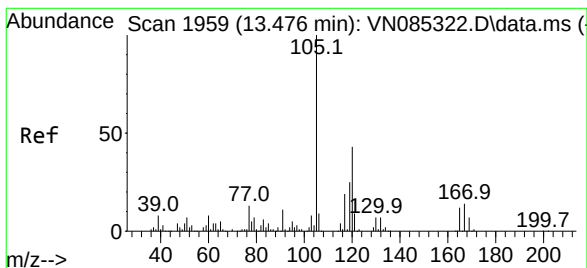
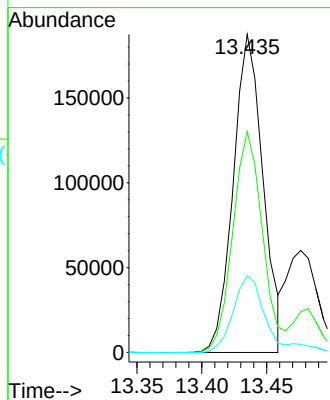
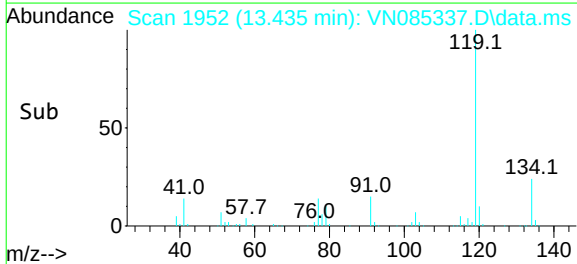
VSTDCCC050EC



Tgt Ion:	119	Resp:	299444
Ion	Ratio	Lower	Upper
119	100		
91	69.8	33.6	100.8
134	26.8	13.3	39.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#84

1,2,4-Trimethylbenzene

Concen: 52.558 ug/l

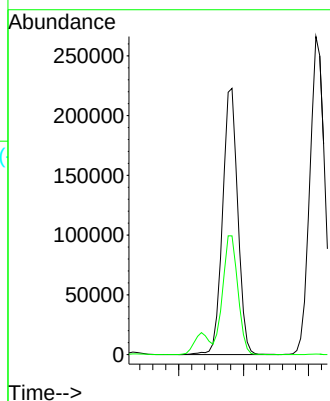
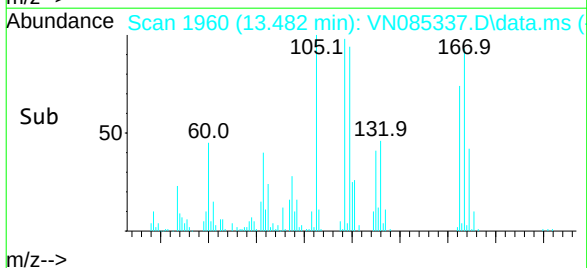
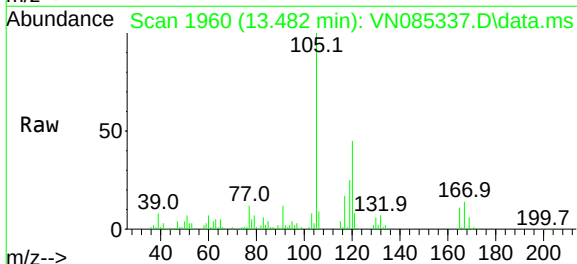
RT: 13.482 min Scan# 1960

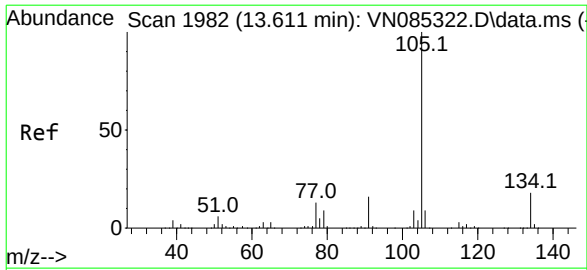
Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Tgt Ion:	105	Resp:	362722
Ion	Ratio	Lower	Upper
105	100		
120	44.6	21.7	65.1





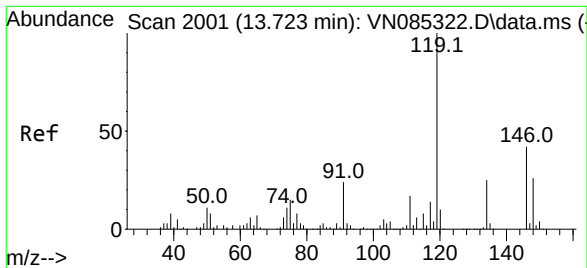
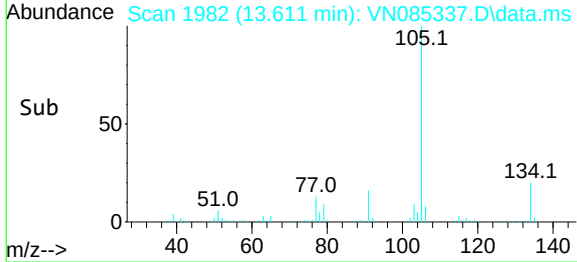
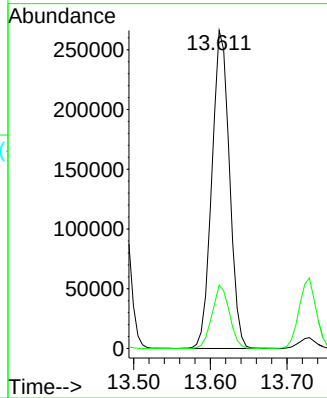
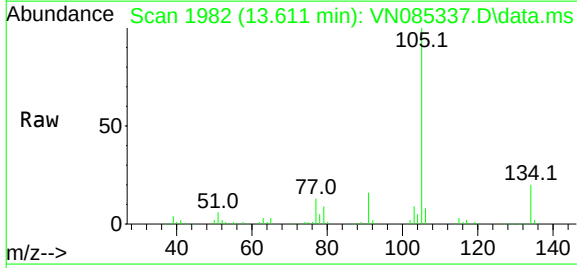
#85
sec-Butylbenzene
Concen: 50.868 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 423924
Ion Ratio Lower Upper
105 100
134 19.6 9.4 28.3

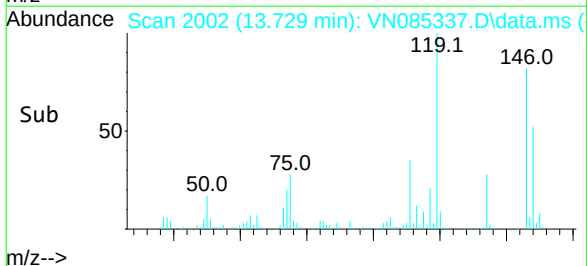
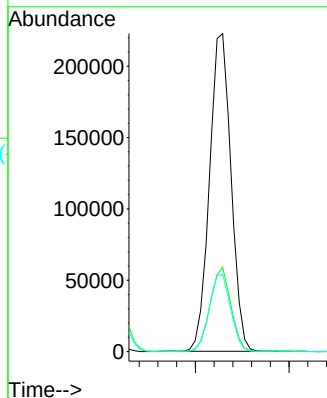
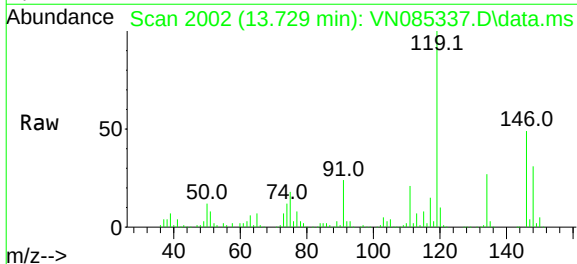
Manual Integrations
APPROVED

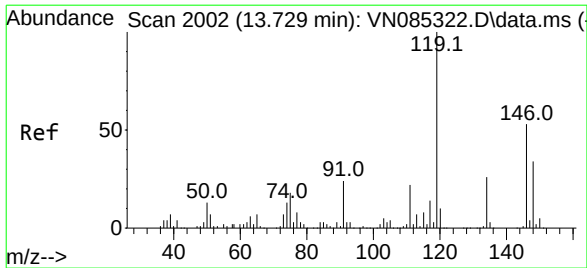
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#86
p-Isopropyltoluene
Concen: 47.752 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Tgt Ion:119 Resp: 355028
Ion Ratio Lower Upper
119 100
134 25.6 12.5 37.5
91 24.3 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 47.408 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:146 Resp: 182452

Ion Ratio Lower Upper

146 100

111 43.4 21.3 63.9

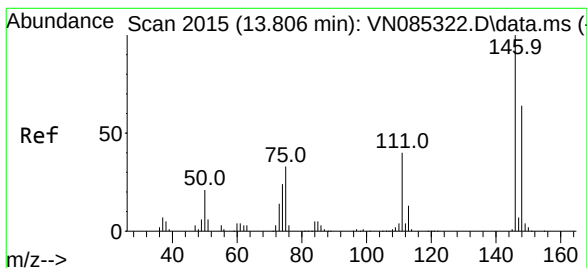
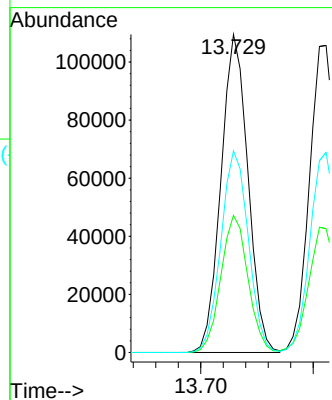
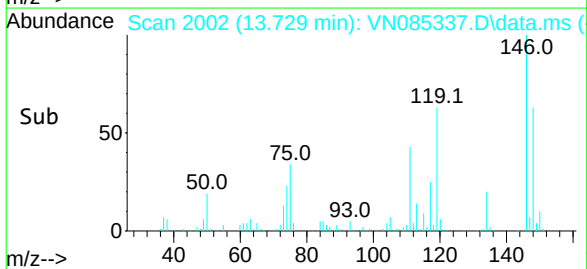
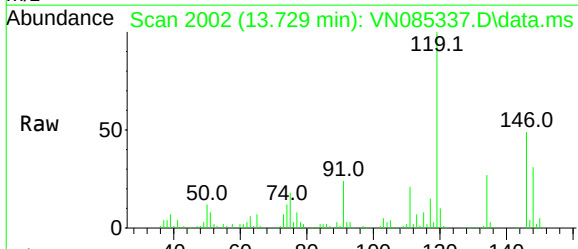
148 64.7 31.5 94.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#88

1,4-Dichlorobenzene

Concen: 46.065 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

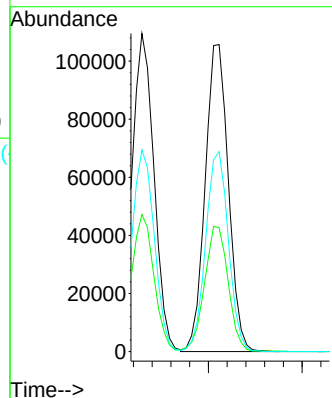
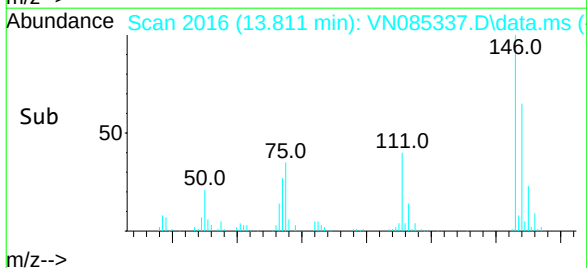
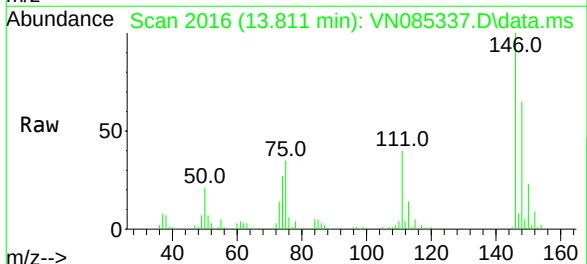
Tgt Ion:146 Resp: 182104

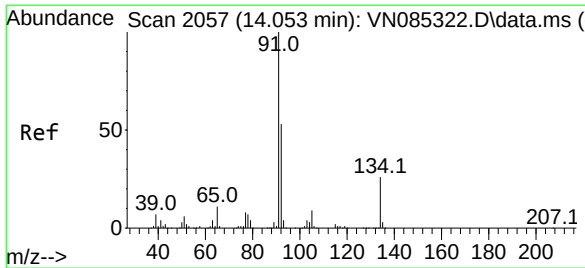
Ion Ratio Lower Upper

146 100

111 41.6 20.8 62.5

148 64.0 31.7 95.1





#89

n-Butylbenzene

Concen: 49.458 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion: 91 Resp: 301821

Ion Ratio Lower Upper

91 100

92 53.0 26.0 78.0

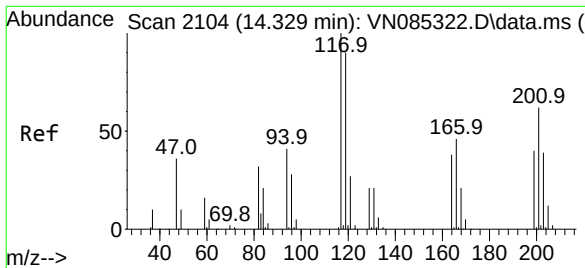
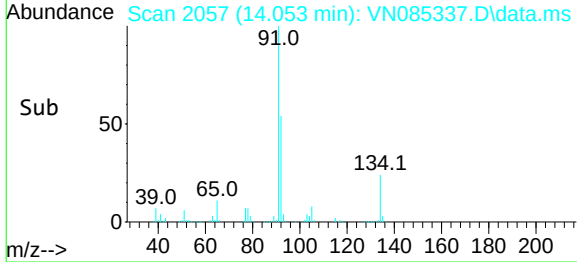
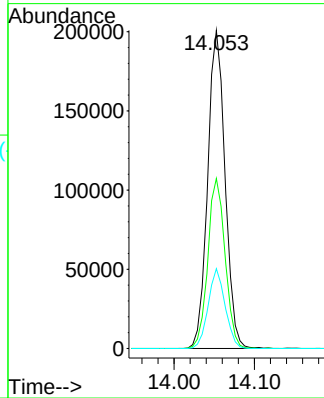
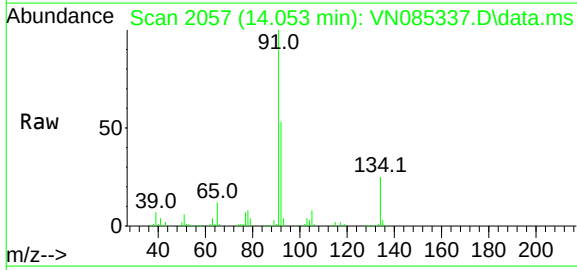
134 24.4 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#90

Hexachloroethane

Concen: 51.745 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN085337.D

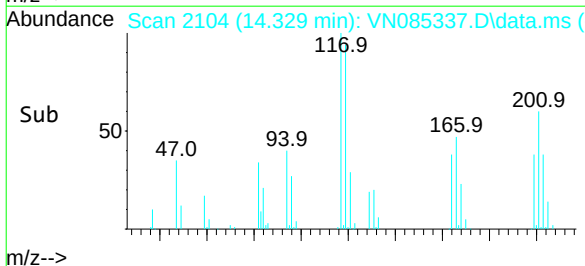
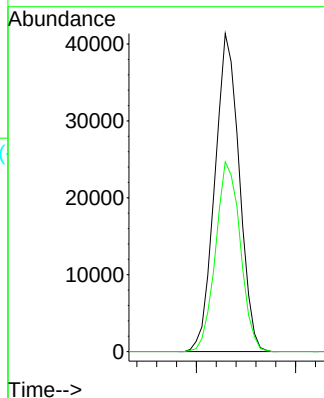
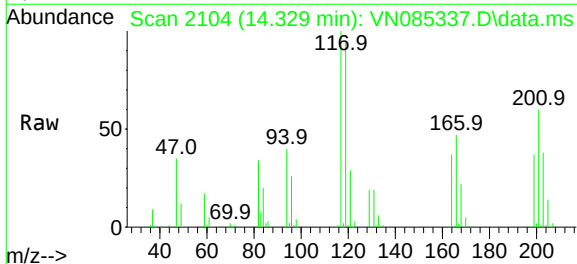
Acq: 27 Dec 2024 19:54

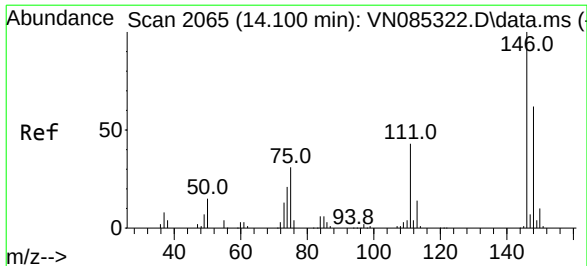
Tgt Ion:117 Resp: 70685

Ion Ratio Lower Upper

117 100

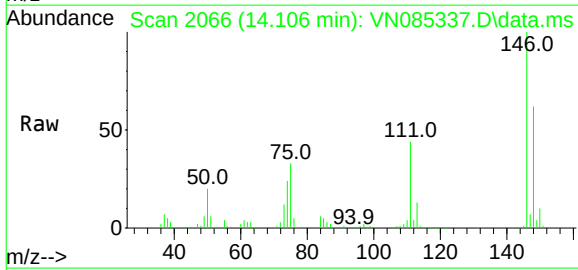
201 60.3 30.7 92.1





#91
1,2-Dichlorobenzene
Concen: 48.719 ug/l
RT: 14.106 min Scan# 2065
Delta R.T. 0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

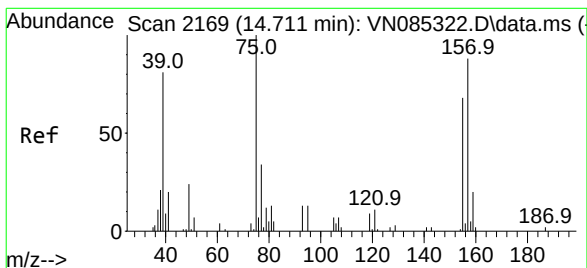
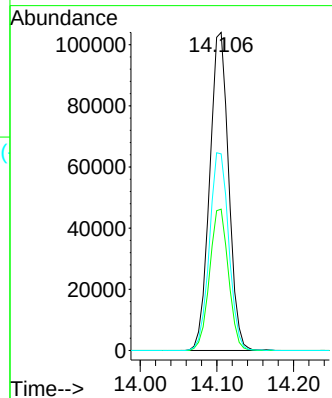
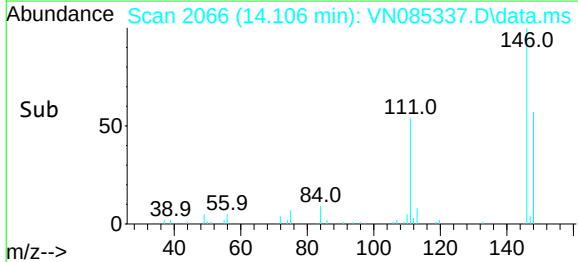
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC



Tgt Ion:146 Resp: 178612
Ion Ratio Lower Upper
146 100
111 44.1 21.8 65.3
148 63.2 31.4 94.2

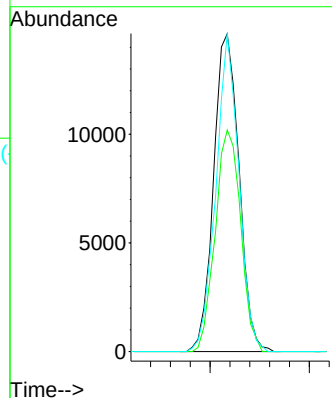
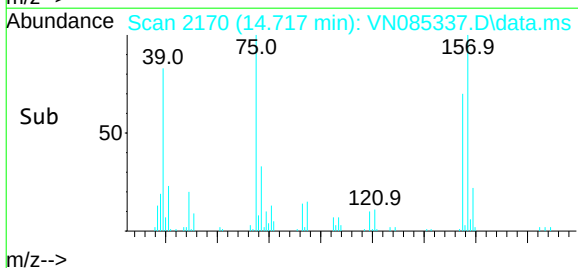
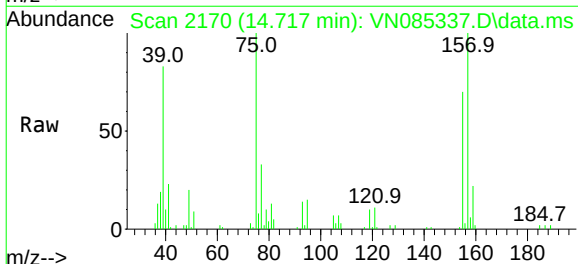
Manual Integrations
APPROVED

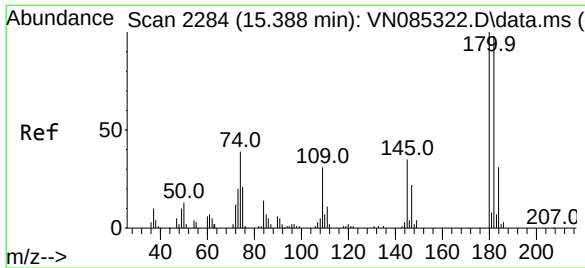
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 53.475 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.006 min
Lab File: VN085337.D
Acq: 27 Dec 2024 19:54

Tgt Ion: 75 Resp: 25973
Ion Ratio Lower Upper
75 100
155 69.8 35.6 106.9
157 90.6 47.0 141.0





#93

1,2,4-Trichlorobenzene

Concen: 46.223 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

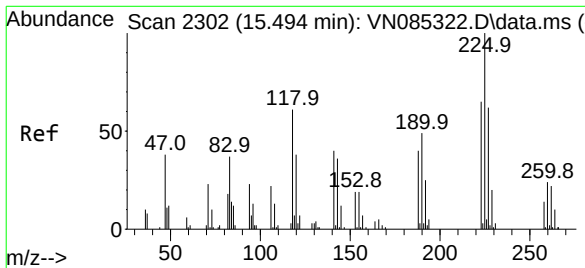
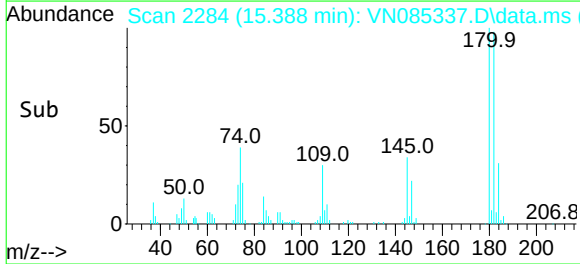
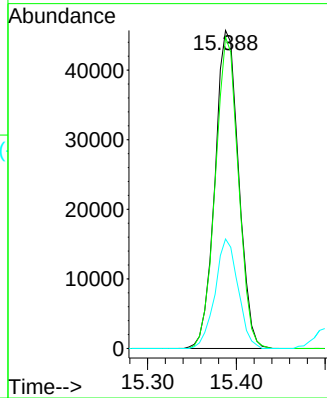
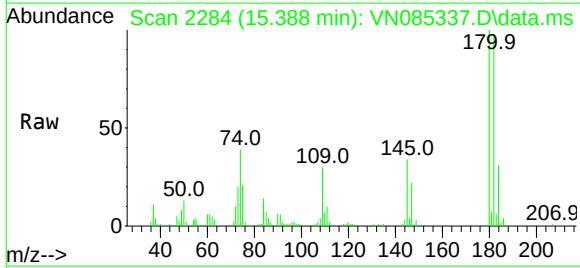
Tgt Ion:	180	Resp:	84575
Ion Ratio	Lower	Upper	
180	100		
182	95.4	47.2	141.6
145	33.5	16.6	49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#94

Hexachlorobutadiene

Concen: 40.840 ug/l

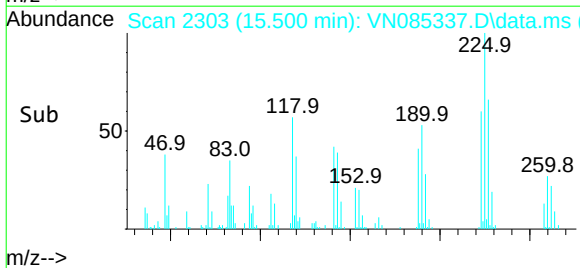
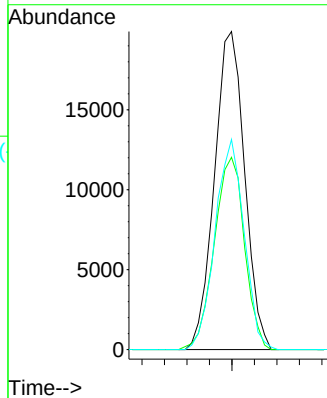
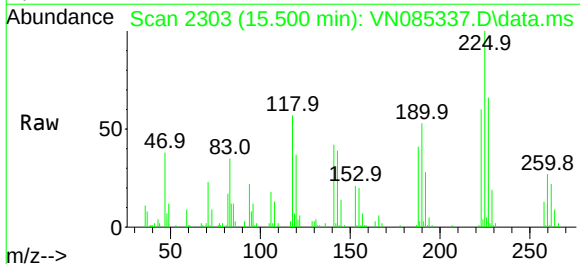
RT: 15.500 min Scan# 2303

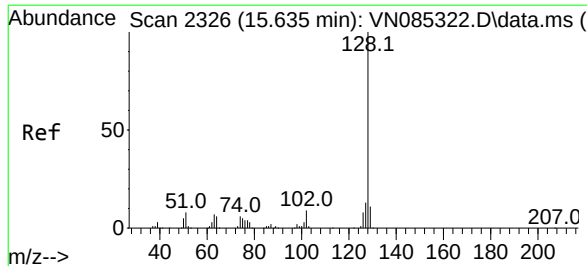
Delta R.T. 0.006 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Tgt Ion:	225	Resp:	37128
Ion Ratio	Lower	Upper	
225	100		
223	60.4	31.6	94.7
227	63.3	30.3	91.0





#95

Naphthalene

Concen: 46.923 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

Tgt Ion:128 Resp: 291136

Ion Ratio Lower Upper

128 100

127 13.4 10.6 16.0

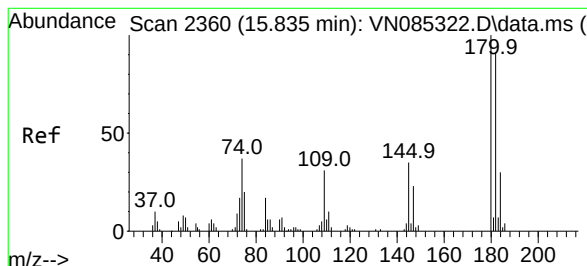
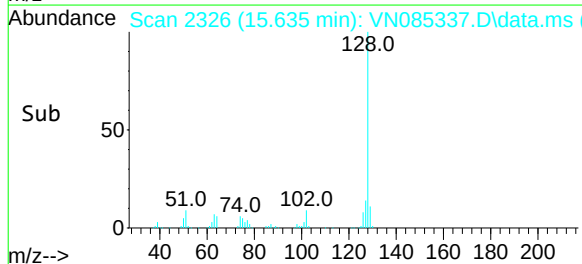
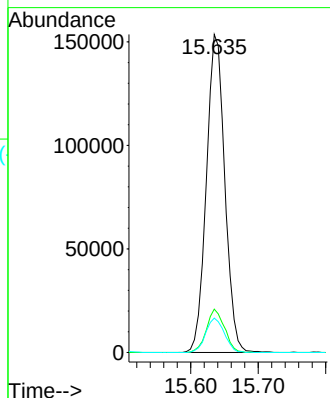
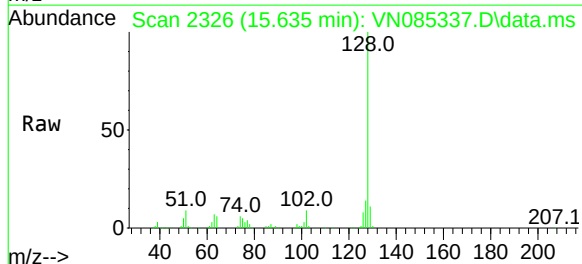
129 10.9 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#96

1,2,3-Trichlorobenzene

Concen: 46.357 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN085337.D

Acq: 27 Dec 2024 19:54

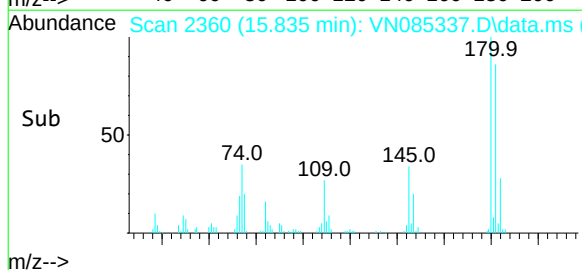
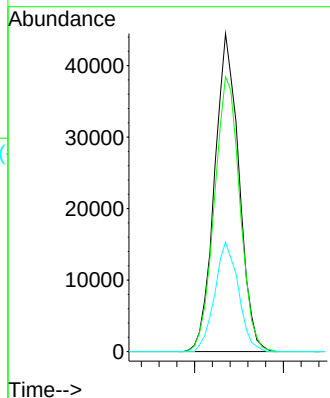
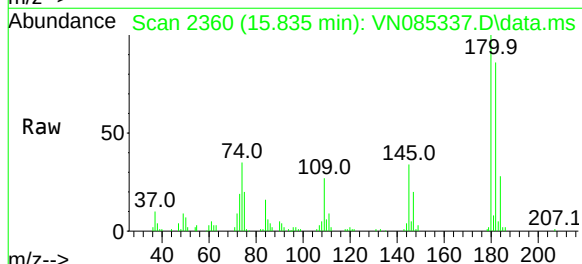
Tgt Ion:180 Resp: 84747

Ion Ratio Lower Upper

180 100

182 90.2 46.8 140.4

145 33.4 17.2 51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085337.D
 Acq On : 27 Dec 2024 19:54
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Dec 28 01:46:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 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	0.676	0.666	1.5	104	0.00
3 P	Chloromethane	0.760	0.664	12.6	106	0.00
4 C	Vinyl Chloride	0.804	0.723	10.1#	104	0.00
5 T	Bromomethane	0.526	0.429	18.4	97	-0.01
6 T	Chloroethane	0.510	0.458	10.2	104	0.00
7 T	Trichlorofluoromethane	1.057	0.992	6.1	106	0.00
8 T	Diethyl Ether	0.350	0.366	-4.6	112	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.601	0.557	7.3	105	0.00
10 T	Methyl Iodide	0.696	0.685	1.6	105	-0.01
11 T	Tert butyl alcohol	0.089	0.092	-3.4	117	0.00
12 CM	1,1-Dichloroethene	0.556	0.532	4.3#	108	0.00
13 T	Acrolein	0.139	0.138	0.7	116	0.00
14 T	Allyl chloride	0.889	0.825	7.2	105	0.00
15 T	Acrylonitrile	0.281	0.287	-2.1	114	0.00
16 T	Acetone	0.235	0.239	-1.7	117	0.00
17 T	Carbon Disulfide	1.690	1.438	14.9	102	0.00
18 T	Methyl Acetate	0.718	0.740	-3.1	116	0.00
19 T	Methyl tert-butyl Ether	1.806	1.819	-0.7	106	0.00
20 T	Methylene Chloride	0.631	0.590	6.5	105	0.00
21 T	trans-1,2-Dichloroethene	0.580	0.541	6.7	105	0.00
22 T	Diisopropyl ether	1.916	1.916	0.0	107	0.00
23 T	Vinyl Acetate	1.386	1.459	-5.3	112	0.00
24 P	1,1-Dichloroethane	1.154	1.097	4.9	107	0.00
25 T	2-Butanone	0.364	0.383	-5.2	114	0.00
26 T	2,2-Dichloropropane	1.011	0.915	9.5	97	0.00
27 T	cis-1,2-Dichloroethene	0.681	0.651	4.4	103	0.00
28 T	Bromochloromethane	0.536	0.454	15.3	93	0.00
29 T	Tetrahydrofuran	0.234	0.254	-8.5	116	0.00
30 C	Chloroform	1.181	1.084	8.2#	104	0.00
31 T	Cyclohexane	1.054	0.914	13.3	102	0.00
32 T	1,1,1-Trichloroethane	1.055	0.952	9.8	102	0.00
33 S	1,2-Dichloroethane-d4	0.713	0.722	-1.3	110	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	109	0.00
35 S	Dibromofluoromethane	0.312	0.320	-2.6	111	0.00
36 T	1,1-Dichloropropene	0.457	0.430	5.9	102	0.00
37 T	Ethyl Acetate	0.454	0.441	2.9	116	0.00
38 T	Carbon Tetrachloride	0.498	0.476	4.4	104	0.00
39 T	Methylcyclohexane	0.474	0.462	2.5	100	0.00
40 TM	Benzene	1.381	1.318	4.6	105	0.00
41 T	Methacrylonitrile	0.232	0.237	-2.2	110	0.00
42 TM	1,2-Dichloroethane	0.495	0.465	6.1	108	0.00
43 T	Isopropyl Acetate	0.747	0.848	-13.5	125	0.00
44 TM	Trichloroethene	0.327	0.295	9.8	104	0.00
45 C	1,2-Dichloropropane	0.351	0.331	5.7#	107	0.00
46 T	Dibromomethane	0.244	0.231	5.3	105	0.00
47 T	Bromodichloromethane	0.507	0.484	4.5	105	0.00
48 T	Methyl methacrylate	0.324	0.352	-8.6	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085337.D
 Acq On : 27 Dec 2024 19:54
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Dec 28 01:46:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 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	0.005	0.005	0.0	111	0.00
50 S	Toluene-d8	1.145	1.166	-1.8	110	0.00
51 T	4-Methyl-2-Pentanone	0.420	0.451	-7.4	114	0.00
52 CM	Toluene	0.822	0.798	2.9#	103	0.00
53 T	t-1,3-Dichloropropene	0.498	0.495	0.6	102	0.00
54 T	cis-1,3-Dichloropropene	0.539	0.527	2.2	104	0.00
55 T	1,1,2-Trichloroethane	0.310	0.303	2.3	108	0.00
56 T	Ethyl methacrylate	0.452	0.510	-12.8	111	0.00
57 T	1,3-Dichloropropane	0.545	0.530	2.8	105	0.00
58 T	2-Chloroethyl Vinyl ether	0.219	0.236	-7.8	107	0.00
59 T	2-Hexanone	0.291	0.327	-12.4	116	0.00
60 T	Dibromochloromethane	0.350	0.358	-2.3	106	0.00
61 T	1,2-Dibromoethane	0.307	0.305	0.7	107	0.00
62 S	4-Bromofluorobenzene	0.380	0.390	-2.6	106	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
64 T	Tetrachloroethene	0.317	0.281	11.4	96	0.00
65 PM	Chlorobenzene	1.080	1.022	5.4	104	0.00
66 T	1,1,1,2-Tetrachloroethane	0.363	0.361	0.6	106	0.00
67 C	Ethyl Benzene	1.797	1.801	-0.2#	102	0.00
68 T	m/p-Xylenes	0.658	0.686	-4.3	103	0.00
69 T	o-Xylene	0.636	0.660	-3.8	102	0.00
70 T	Styrene	1.031	1.115	-8.1	103	0.00
71 P	Bromoform	0.251	0.269	-7.2	109	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73 T	Isopropylbenzene	3.596	3.616	-0.6	102	0.00
74 T	N-amyl acetate	1.539	1.745	-13.4	113	0.00
75 P	1,1,2,2-Tetrachloroethane	1.145	1.137	0.7	112	0.00
76 T	1,2,3-Trichloropropane	0.934	1.024	-9.6	130	0.00
77 T	Bromobenzene	0.891	0.815	8.5	102	0.00
78 T	n-propylbenzene	4.191	4.251	-1.4	102	0.00
79 T	2-Chlorotoluene	2.638	2.596	1.6	103	0.00
80 T	1,3,5-Trimethylbenzene	2.908	3.017	-3.7	103	0.00
81 T	trans-1,4-Dichloro-2-butene	0.390	0.416	-6.7	108	0.00
82 T	4-Chlorotoluene	2.657	2.611	1.7	104	0.00
83 T	tert-Butylbenzene	2.519	2.513	0.2	102	0.00
84 T	1,2,4-Trimethylbenzene	2.896	3.044	-5.1	102	0.00
85 T	sec-Butylbenzene	3.497	3.558	-1.7	100	0.00
86 T	p-Isopropyltoluene	2.816	2.979	-5.8	102	0.00
87 T	1,3-Dichlorobenzene	1.615	1.531	5.2	102	0.00
88 T	1,4-Dichlorobenzene	1.659	1.528	7.9	102	0.00
89 T	n-Butylbenzene	2.561	2.533	1.1	98	0.00
90 T	Hexachloroethane	0.573	0.593	-3.5	105	0.00
91 T	1,2-Dichlorobenzene	1.538	1.499	2.5	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.204	0.218	-6.9	113	0.00
93 T	1,2,4-Trichlorobenzene	0.768	0.710	7.6	98	0.00
94 T	Hexachlorobutadiene	0.381	0.312	18.1	96	0.00
95 T	Naphthalene	2.603	2.443	6.1	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085337.D
Acq On : 27 Dec 2024 19:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 28 01:46:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 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	0.767	0.711	7.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085337.D
 Acq On : 27 Dec 2024 19:54
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Dec 28 01:46:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 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	49.249	1.5	104	0.00
3 P	Chloromethane	50.000	43.706	12.6	106	0.00
4 C	Vinyl Chloride	50.000	44.993	10.0#	104	0.00
5 T	Bromomethane	50.000	40.830	18.3	97	-0.01
6 T	Chloroethane	50.000	44.963	10.1	104	0.00
7 T	Trichlorofluoromethane	50.000	46.925	6.2	106	0.00
8 T	Diethyl Ether	50.000	52.307	-4.6	112	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	46.360	7.3	105	0.00
10 T	Methyl Iodide	50.000	49.261	1.5	105	-0.01
11 T	Tert butyl alcohol	250.000	257.112	-2.8	117	0.00
12 CM	1,1-Dichloroethene	50.000	47.837	4.3#	108	0.00
13 T	Acrolein	250.000	248.168	0.7	116	0.00
14 T	Allyl chloride	50.000	46.385	7.2	105	0.00
15 T	Acrylonitrile	250.000	255.570	-2.2	114	0.00
16 T	Acetone	250.000	254.740	-1.9	117	0.00
17 T	Carbon Disulfide	50.000	42.538	14.9	102	0.00
18 T	Methyl Acetate	50.000	51.536	-3.1	116	0.00
19 T	Methyl tert-butyl Ether	50.000	50.367	-0.7	106	0.00
20 T	Methylene Chloride	50.000	46.795	6.4	105	0.00
21 T	trans-1,2-Dichloroethene	50.000	46.608	6.8	105	0.00
22 T	Diisopropyl ether	50.000	49.987	0.0	107	0.00
23 T	Vinyl Acetate	250.000	263.034	-5.2	112	0.00
24 P	1,1-Dichloroethane	50.000	47.530	4.9	107	0.00
25 T	2-Butanone	250.000	262.964	-5.2	114	0.00
26 T	2,2-Dichloropropane	50.000	45.241	9.5	97	0.00
27 T	cis-1,2-Dichloroethene	50.000	47.812	4.4	103	0.00
28 T	Bromochloromethane	50.000	42.276	15.4	93	0.00
29 T	Tetrahydrofuran	250.000	271.082	-8.4	116	0.00
30 C	Chloroform	50.000	45.890	8.2#	104	0.00
31 T	Cyclohexane	50.000	43.379	13.2	102	0.00
32 T	1,1,1-Trichloroethane	50.000	45.147	9.7	102	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.594	-1.2	110	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	109	0.00
35 S	Dibromofluoromethane	50.000	51.312	-2.6	111	0.00
36 T	1,1-Dichloropropene	50.000	47.028	5.9	102	0.00
37 T	Ethyl Acetate	50.000	48.579	2.8	116	0.00
38 T	Carbon Tetrachloride	50.000	47.859	4.3	104	0.00
39 T	Methylcyclohexane	50.000	48.731	2.5	100	0.00
40 TM	Benzene	50.000	47.710	4.6	105	0.00
41 T	Methacrylonitrile	50.000	50.926	-1.9	110	0.00
42 TM	1,2-Dichloroethane	50.000	47.009	6.0	108	0.00
43 T	Isopropyl Acetate	50.000	56.698	-13.4	125	0.00
44 TM	Trichloroethene	50.000	45.091	9.8	104	0.00
45 C	1,2-Dichloropropane	50.000	47.168	5.7#	107	0.00
46 T	Dibromomethane	50.000	47.348	5.3	105	0.00
47 T	Bromodichloromethane	50.000	47.752	4.5	105	0.00
48 T	Methyl methacrylate	50.000	54.215	-8.4	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085337.D
 Acq On : 27 Dec 2024 19:54
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Dec 28 01:46:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 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	1119.134	-11.9	111	0.00
50 S	Toluene-d8	50.000	50.937	-1.9	110	0.00
51 T	4-Methyl-2-Pentanone	250.000	268.651	-7.5	114	0.00
52 CM	Toluene	50.000	48.552	2.9#	103	0.00
53 T	t-1,3-Dichloropropene	50.000	49.694	0.6	102	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.936	2.1	104	0.00
55 T	1,1,2-Trichloroethane	50.000	48.764	2.5	108	0.00
56 T	Ethyl methacrylate	50.000	56.392	-12.8	111	0.00
57 T	1,3-Dichloropropane	50.000	48.684	2.6	105	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	270.032	-8.0	107	0.00
59 T	2-Hexanone	250.000	280.111	-12.0	116	0.00
60 T	Dibromochloromethane	50.000	51.180	-2.4	106	0.00
61 T	1,2-Dibromoethane	50.000	49.680	0.6	107	0.00
62 S	4-Bromofluorobenzene	50.000	51.260	-2.5	106	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	106	0.00
64 T	Tetrachloroethene	50.000	44.300	11.4	96	0.00
65 PM	Chlorobenzene	50.000	47.277	5.4	104	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.750	0.5	106	0.00
67 C	Ethyl Benzene	50.000	50.123	-0.2#	102	0.00
68 T	m/p-Xylenes	100.000	104.245	-4.2	103	0.00
69 T	o-Xylene	50.000	51.838	-3.7	102	0.00
70 T	Styrene	50.000	54.081	-8.2	103	0.00
71 P	Bromoform	50.000	53.619	-7.2	109	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73 T	Isopropylbenzene	50.000	50.287	-0.6	102	0.00
74 T	N-amyl acetate	50.000	56.680	-13.4	113	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.623	0.8	112	0.00
76 T	1,2,3-Trichloropropane	50.000	54.860	-9.7	130	0.00
77 T	Bromobenzene	50.000	45.760	8.5	102	0.00
78 T	n-propylbenzene	50.000	50.717	-1.4	102	0.00
79 T	2-Chlorotoluene	50.000	49.202	1.6	103	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.871	-3.7	103	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	53.330	-6.7	108	0.00
82 T	4-Chlorotoluene	50.000	49.151	1.7	104	0.00
83 T	tert-Butylbenzene	50.000	49.875	0.3	102	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.558	-5.1	102	0.00
85 T	sec-Butylbenzene	50.000	50.868	-1.7	100	0.00
86 T	p-Isopropyltoluene	50.000	47.752	4.5	102	0.00
87 T	1,3-Dichlorobenzene	50.000	47.408	5.2	102	0.00
88 T	1,4-Dichlorobenzene	50.000	46.065	7.9	102	0.00
89 T	n-Butylbenzene	50.000	49.458	1.1	98	0.00
90 T	Hexachloroethane	50.000	51.745	-3.5	105	0.00
91 T	1,2-Dichlorobenzene	50.000	48.719	2.6	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	53.475	-7.0	113	0.00
93 T	1,2,4-Trichlorobenzene	50.000	46.223	7.6	98	0.00
94 T	Hexachlorobutadiene	50.000	40.840	18.3	96	0.00
95 T	Naphthalene	50.000	46.923	6.2	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085337.D
Acq On : 27 Dec 2024 19:54
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 28 01:46:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 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	46.357	7.3	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



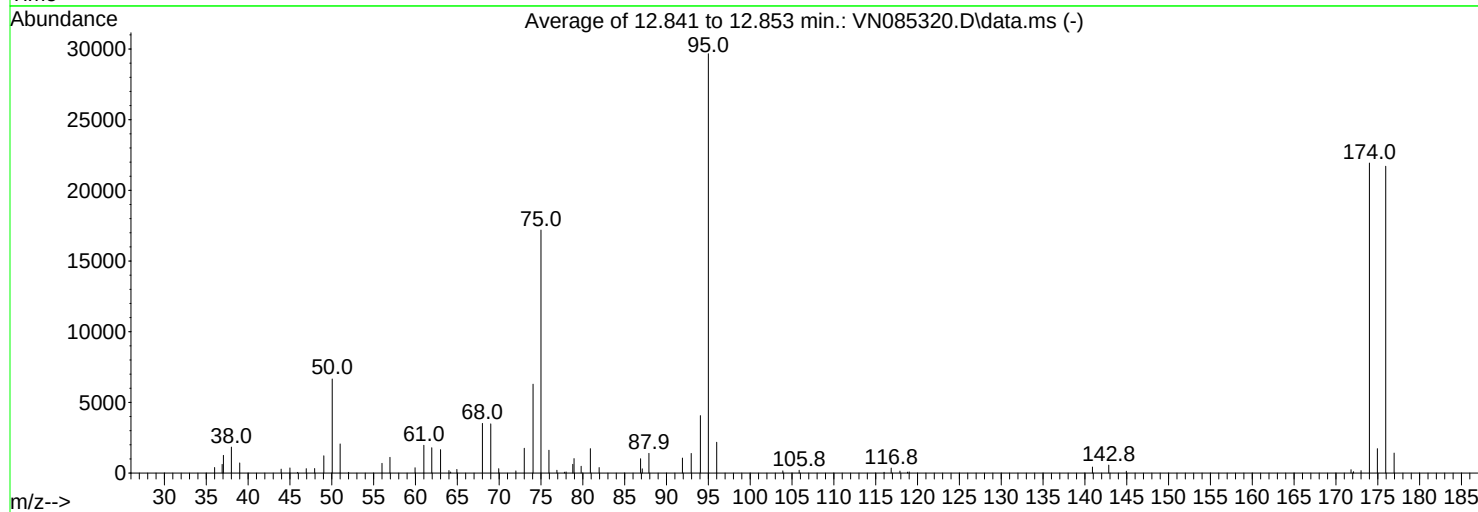
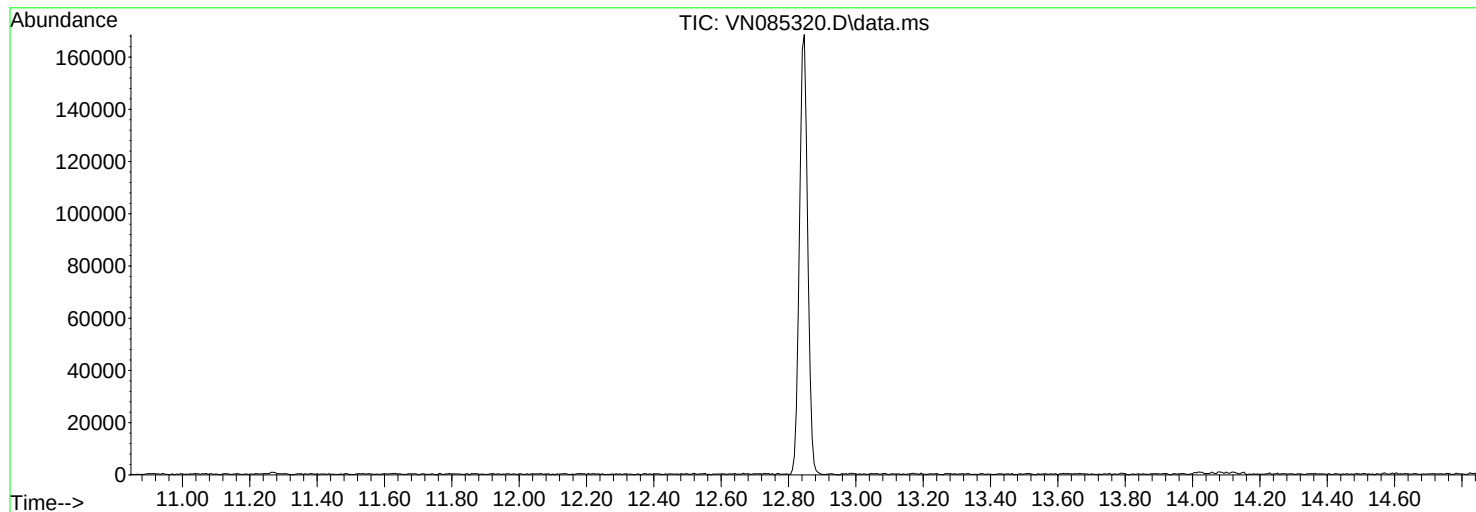
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085320.D
Acq On : 27 Dec 2024 09:52
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\82N122724W.M
Title : SW846 8260
Last Update : Sat Dec 28 01:36:16 2024



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	6656	PASS
75	95	30	60	58.0	17193	PASS
95	95	100	100	100.0	29667	PASS
96	95	5	9	7.3	2180	PASS
173	174	0.00	2	0.8	173	PASS
174	95	50	100	73.9	21933	PASS
175	174	5	9	7.9	1730	PASS
176	174	95	101	99.0	21707	PASS
177	176	5	9	6.5	1416	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	395	50.05	6656	64.95	258	78.00	82
36.90	615	51.00	2063	68.00	3516	78.80	618
37.05	1253	52.00	51	69.00	3482	78.95	1025
38.00	1836	56.00	691	69.95	311	79.80	481
39.00	716	56.95	1115	72.00	154	80.90	1729
43.95	280	59.95	376	73.00	1757	81.95	392
45.00	363	61.00	1966	74.05	6288	86.90	1016
45.90	51	61.95	1793	75.00	17193	87.10	304
46.95	311	63.00	1658	75.95	1618	87.90	1397
47.95	322	64.00	180	76.90	201	91.90	1064
49.05	1223	64.20	74	77.80	65	92.95	1389

Average of 12.841 to 12.853 min.: VN085320.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	4066	142.85	563				
95.00	29667	144.95	133				
96.00	2180	171.80	240				
103.90	155	172.10	100				
105.85	202	173.00	173				
116.00	57	174.00	21933				
116.85	353	174.95	1730				
117.90	143	175.95	21707				
118.80	68	176.95	1416				
119.00	86						
140.90	427						

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	VN1227WBL01	SDG No.:	P5380
Lab Sample ID:	VN1227WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085329.D	1		12/27/24 16:33	VN122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.75	U	0.34	0.75	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.26	0.75	5.00	ug/L
78-93-3	2-Butanone	2.50	U	1.30	2.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	5.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	5.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.24	0.75	5.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	5.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	5.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.9		81 - 118		112%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	53.1		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	147000	8.224				
540-36-3	1,4-Difluorobenzene	273000	9.1				
3114-55-4	Chlorobenzene-d5	232000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	90100	13.788				

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\VN122724\
Data File : VN085329.D
Acq On : 27 Dec 2024 16:33
Operator : JC\MD
Sample : VN1227WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBL01

Quant Time: Dec 28 01:41:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	146718	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	272578	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	232422	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	90060	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116968	55.896	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	111.800%	
35) Dibromofluoromethane	8.165	113	89459	52.608	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	105.220%	
50) Toluene-d8	10.565	98	331120	53.064	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	106.120%	
62) 4-Bromofluorobenzene	12.847	95	101561	49.007	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	98.020%	

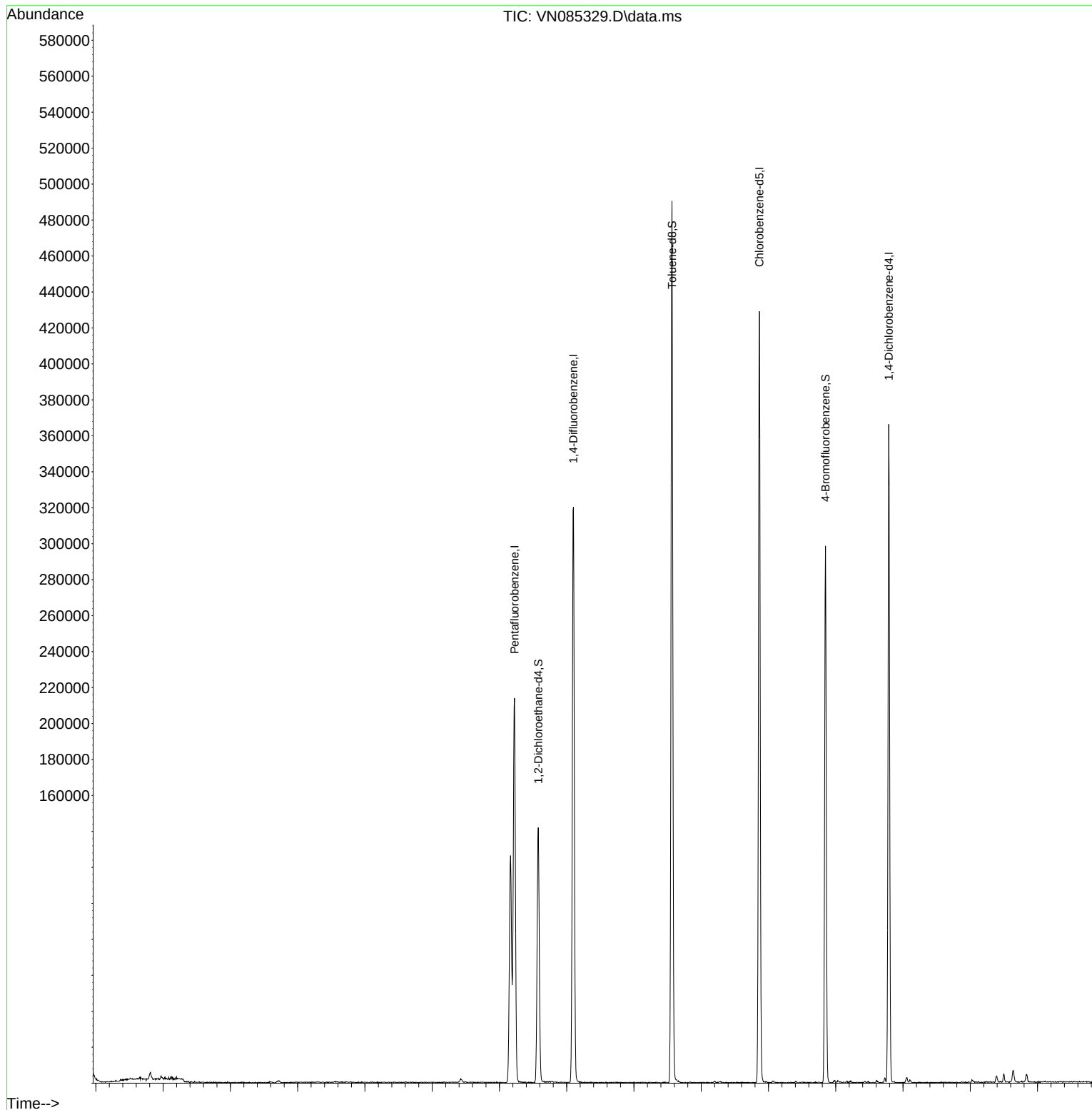
Target Compounds	Qvalue

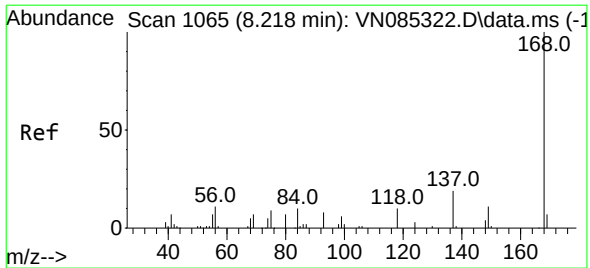
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085329.D
Acq On : 27 Dec 2024 16:33
Operator : JC\MD
Sample : VN1227WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBL01

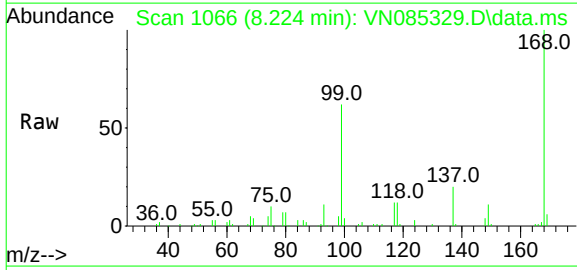
Quant Time: Dec 28 01:41:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration



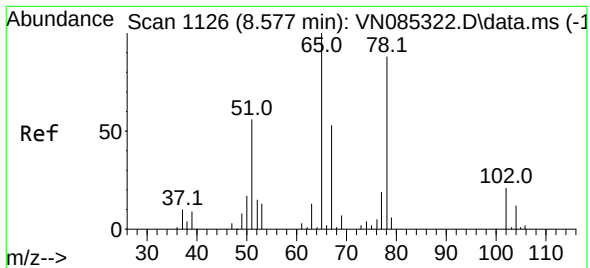
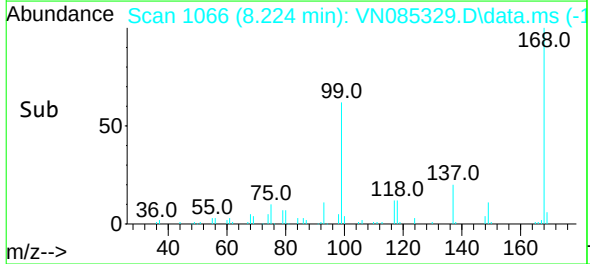
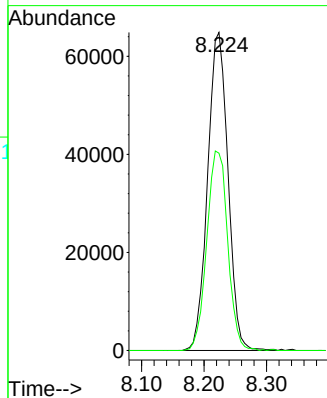


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBL01

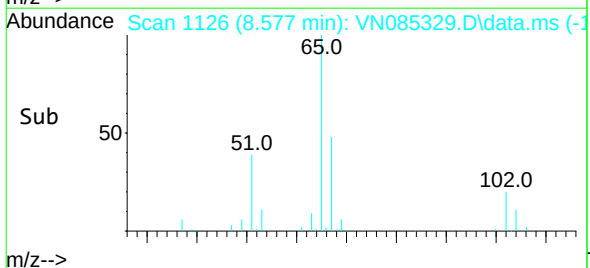
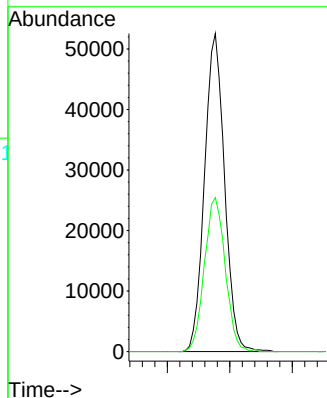
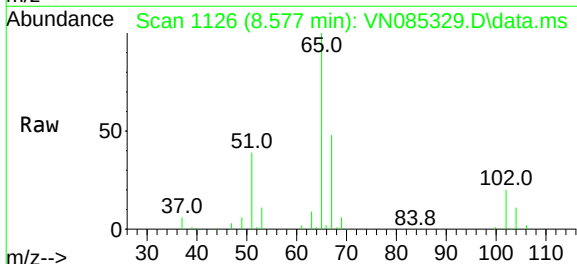


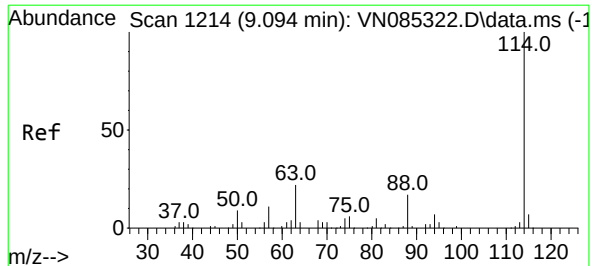
Tgt Ion:168 Resp: 146718
Ion Ratio Lower Upper
168 100
99 62.0 51.0 76.4



#33
1,2-Dichloroethane-d4
Concen: 55.896 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085329.D
Acq: 27 Dec 2024 16:33

Tgt Ion: 65 Resp: 116968
Ion Ratio Lower Upper
65 100
67 50.5 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 12

Delta R.T. 0.006 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBL01

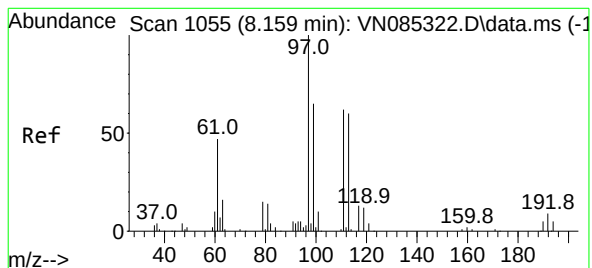
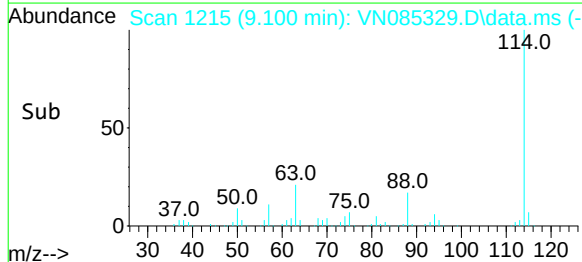
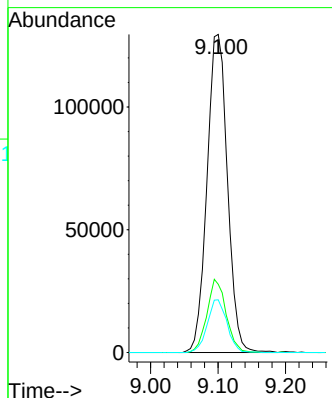
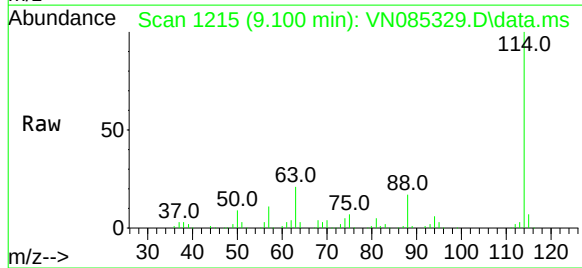
Tgt Ion:114 Resp: 272578

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.4

88 16.6 0.0 33.6



#35

Dibromofluoromethane

Concen: 52.608 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

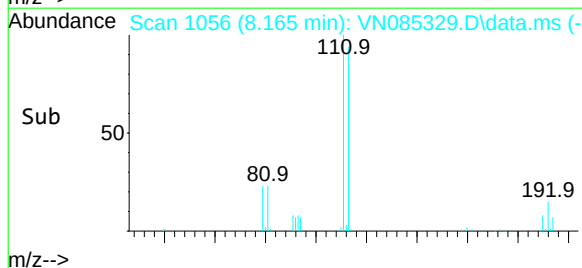
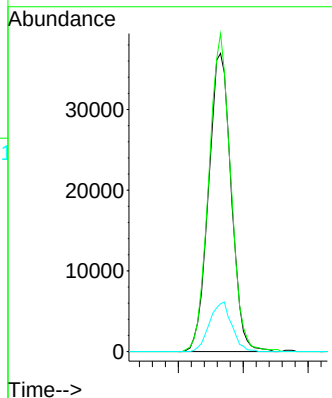
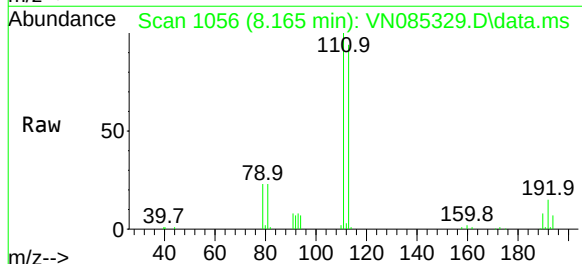
Tgt Ion:113 Resp: 89459

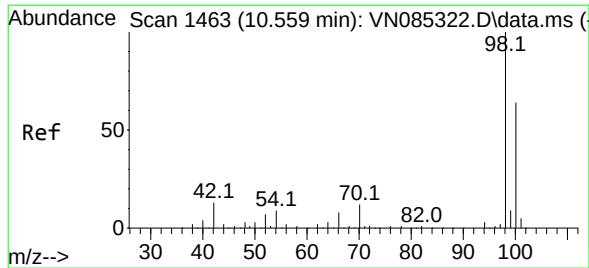
Ion Ratio Lower Upper

113 100

111 103.4 80.5 120.7

192 16.3 12.9 19.3





#50

Toluene-d8

Concen: 53.064 ug/l

RT: 10.565 min Scan# 14

Delta R.T. 0.006 min

Lab File: VN085329.D

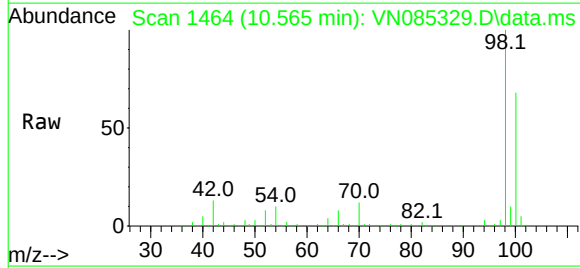
Acq: 27 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBL01

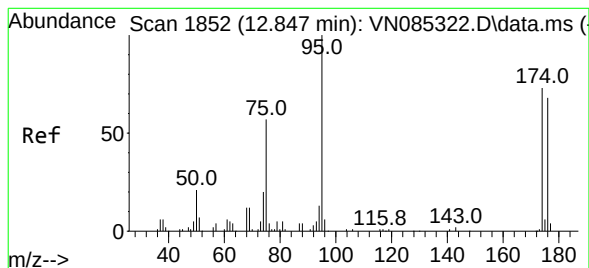
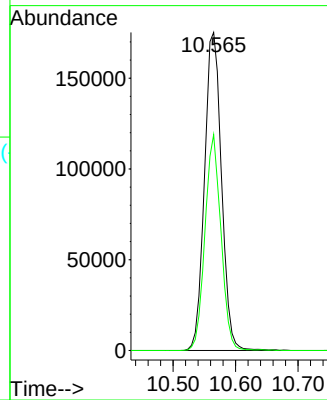
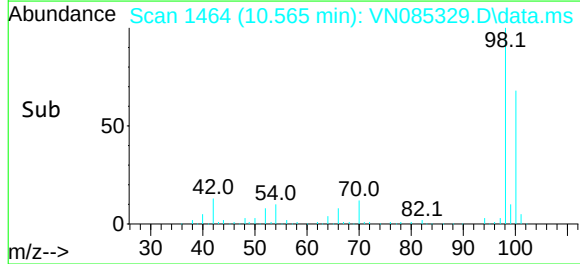


Tgt Ion: 98 Resp: 331120

Ion Ratio Lower Upper

98 100

100 63.9 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 49.007 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

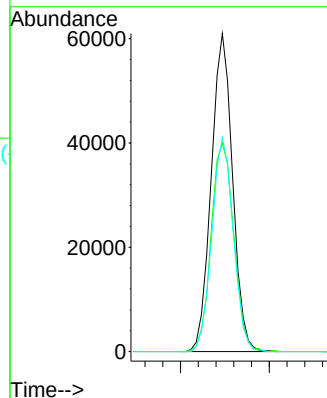
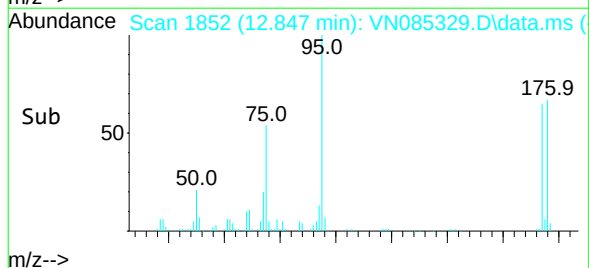
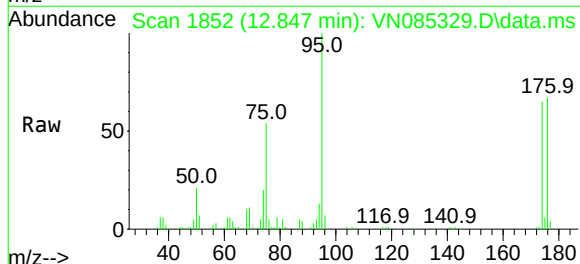
Tgt Ion: 95 Resp: 101561

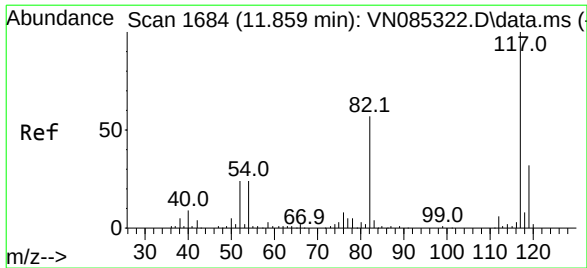
Ion Ratio Lower Upper

95 100

174 69.6 0.0 143.2

176 67.9 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. 0.006 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBL01

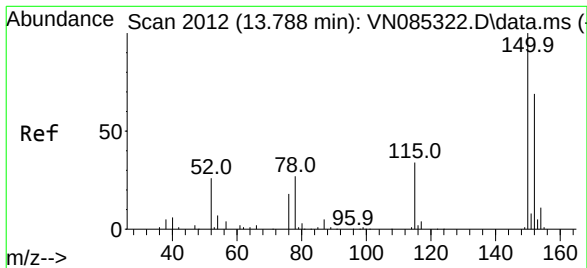
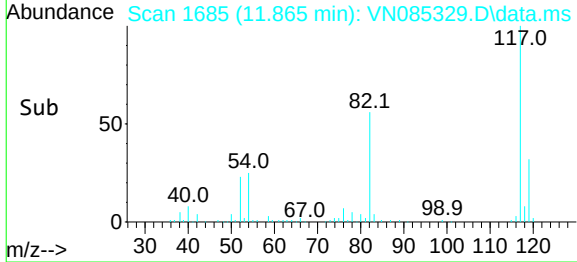
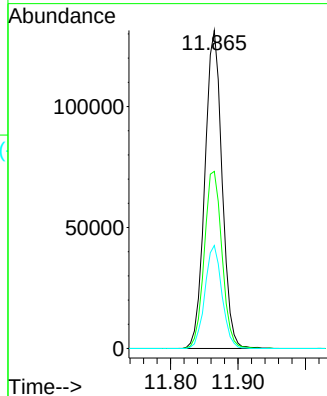
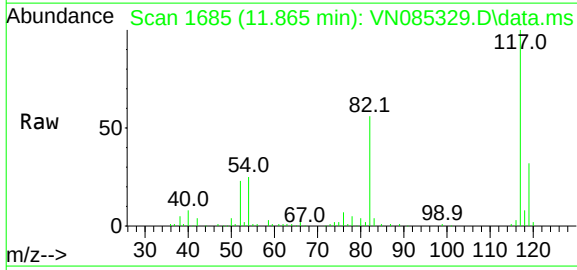
Tgt Ion:117 Resp: 232422

Ion Ratio Lower Upper

117 100

82 55.7 45.7 68.5

119 32.4 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085329.D

Acq: 27 Dec 2024 16:33

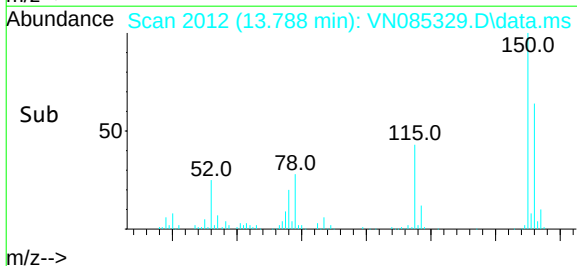
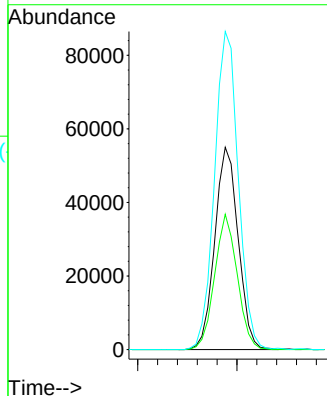
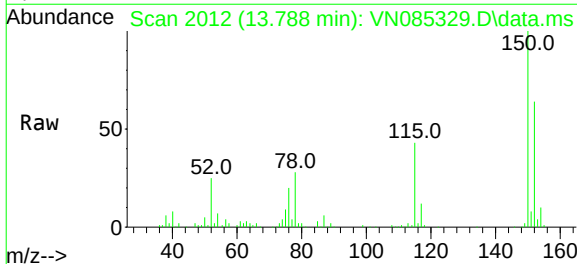
Tgt Ion:152 Resp: 90060

Ion Ratio Lower Upper

152 100

115 64.6 30.4 91.3

150 160.0 0.0 345.0



Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	VN1227WBS01	SDG No.:	P5380
Lab Sample ID:	VN1227WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085330.D	1		12/27/24 16:57	VN122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	16.8		0.34	0.75	5.00	ug/L
75-35-4	1,1-Dichloroethene	17.4		0.26	0.75	5.00	ug/L
78-93-3	2-Butanone	96.2		1.30	2.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	17.6		0.25	0.50	5.00	ug/L
67-66-3	Chloroform	17.4		0.26	0.50	5.00	ug/L
71-43-2	Benzene	17.5		0.16	0.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	17.3		0.24	0.75	5.00	ug/L
79-01-6	Trichloroethene	16.8		0.32	0.75	5.00	ug/L
127-18-4	Tetrachloroethene	18.0		0.25	0.50	5.00	ug/L
108-90-7	Chlorobenzene	17.7		0.13	0.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.1		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.5		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	171000	8.224				
540-36-3	1,4-Difluorobenzene	303000	9.1				
3114-55-4	Chlorobenzene-d5	254000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	111000	13.788				

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\VN122724\
 Data File : VN085330.D
 Acq On : 27 Dec 2024 16:57
 Operator : JC\MD
 Sample : VN1227WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:42:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	170735	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	303482	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	253770	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	111138	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	121898	50.057	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.120%
35) Dibromofluoromethane	8.165	113	94013	49.656	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.320%
50) Toluene-d8	10.565	98	351721	50.625	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.260%
62) 4-Bromofluorobenzene	12.847	95	116494	50.489	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.980%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	43449	18.817	ug/l	95
3) Chloromethane	2.359	50	43547	16.780	ug/l	100
4) Vinyl Chloride	2.512	62	46023	16.768	ug/l	96
5) Bromomethane	2.959	94	29868	16.639	ug/l	98
6) Chloroethane	3.118	64	30694	17.634	ug/l	99
7) Trichlorofluoromethane	3.501	101	63768	17.674	ug/l	98
8) Diethyl Ether	3.959	74	21725	18.186	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	35886	17.480	ug/l	97
10) Methyl Iodide	4.589	142	40932	17.229	ug/l	94
11) Tert butyl alcohol	5.506	59	31998	104.934	ug/l	100
12) 1,1-Dichloroethene	4.342	96	33040	17.414	ug/l	87
13) Acrolein	4.177	56	41809	87.943	ug/l	100
14) Allyl chloride	5.024	41	49542	16.315	ug/l	98
15) Acrylonitrile	5.718	53	90364	94.155	ug/l	98
16) Acetone	4.424	43	77254	96.477	ug/l	96
17) Carbon Disulfide	4.712	76	90070	15.605	ug/l	98
18) Methyl Acetate	5.024	43	47009	19.175	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	110534	17.924	ug/l	99
20) Methylene Chloride	5.277	84	37667	17.488	ug/l	96
21) trans-1,2-Dichloroethene	5.789	96	33327	16.815	ug/l	92
22) Diisopropyl ether	6.671	45	118015	18.035	ug/l	98
23) Vinyl Acetate	6.600	43	434816	91.855	ug/l	98
24) 1,1-Dichloroethane	6.565	63	69242	17.566	ug/l	98
25) 2-Butanone	7.483	43	119558	96.241	ug/l	97
26) 2,2-Dichloropropane	7.489	77	59724	17.294	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	40786	17.533	ug/l	97
28) Bromochloromethane	7.812	49	33586	18.335	ug/l #	100
29) Tetrahydrofuran	7.836	42	81381	101.699	ug/l	99
30) Chloroform	7.959	83	70354	17.446	ug/l	95
31) Cyclohexane	8.253	56	59824	16.621	ug/l	94
32) 1,1,1-Trichloroethane	8.165	97	61343	17.033	ug/l	98
36) 1,1-Dichloropropene	8.371	75	48077	17.343	ug/l	99
37) Ethyl Acetate	7.559	43	51711	18.768	ug/l	99
38) Carbon Tetrachloride	8.359	117	53303	17.641	ug/l	96
39) Methylcyclohexane	9.600	83	49793	17.312	ug/l	99
40) Benzene	8.600	78	146952	17.534	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085330.D
 Acq On : 27 Dec 2024 16:57
 Operator : JC/MD
 Sample : VN1227WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:42:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	26082	18.484	ug/l	98
42) 1,2-Dichloroethane	8.665	62	51885	17.267	ug/l	100
43) Isopropyl Acetate	8.683	43	83925	18.499	ug/l	99
44) Trichloroethene	9.347	130	33316	16.790	ug/l	96
45) 1,2-Dichloropropane	9.618	63	37543	17.646	ug/l	99
46) Dibromomethane	9.706	93	26479	17.895	ug/l	99
47) Bromodichloromethane	9.883	83	54021	17.565	ug/l	97
48) Methyl methacrylate	9.677	41	38382	19.497	ug/l	97
49) 1,4-Dioxane	9.688	88	13255	446.267	ug/l	97
51) 4-Methyl-2-Pentanone	10.441	43	257213	100.886	ug/l	100
52) Toluene	10.630	92	89808	17.996	ug/l	99
53) t-1,3-Dichloropropene	10.830	75	53764	17.777	ug/l	93
54) cis-1,3-Dichloropropene	10.306	75	59027	18.049	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	34671	18.402	ug/l	96
56) Ethyl methacrylate	10.871	69	52590	19.165	ug/l	99
57) 1,3-Dichloropropane	11.159	76	60541	18.308	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	134176	101.065	ug/l	100
59) 2-Hexanone	11.194	43	183110	103.517	ug/l	100
60) Dibromochloromethane	11.359	129	38342	18.067	ug/l	95
61) 1,2-Dibromoethane	11.465	107	33837	18.152	ug/l	99
64) Tetrachloroethene	11.100	164	29016	18.045	ug/l	94
65) Chlorobenzene	11.888	112	97170	17.719	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	33399	18.146	ug/l	99
67) Ethyl Benzene	11.959	91	167113	18.324	ug/l	100
68) m/p-Xylenes	12.071	106	127874	38.314	ug/l	99
69) o-Xylene	12.394	106	58720	18.187	ug/l	93
70) Styrene	12.406	104	100048	19.120	ug/l	99
71) Bromoform	12.571	173	24033	18.853	ug/l #	98
73) Isopropylbenzene	12.694	105	149902	18.757	ug/l	99
74) N-amyl acetate	12.488	43	69851	20.419	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	49543	19.464	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	45541m	21.944	ug/l	
77) Bromobenzene	12.976	156	35139	17.746	ug/l	96
78) n-propylbenzene	13.035	91	180713	19.398	ug/l	99
79) 2-Chlorotoluene	13.118	91	109897	18.744	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	125698	19.444	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	16022	18.488	ug/l	91
82) 4-Chlorotoluene	13.218	91	109755	18.587	ug/l	98
83) tert-Butylbenzene	13.435	119	104613	18.682	ug/l	96
84) 1,2,4-Trimethylbenzene	13.476	105	126545	19.659	ug/l	99
85) sec-Butylbenzene	13.612	105	149749	19.266	ug/l	100
86) p-Isopropyltoluene	13.729	119	121179	18.228	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	66029	18.395	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	65210	17.686	ug/l	98
89) n-Butylbenzene	14.053	91	101990	17.919	ug/l	98
90) Hexachloroethane	14.329	117	23690	18.594	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	63769	18.649	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.723	75	8997	19.860	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	29229	17.127	ug/l	98
94) Hexachlorobutadiene	15.500	225	13999	16.510	ug/l	99
95) Naphthalene	15.635	128	95832	16.560	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	29742	17.443	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085330.D
Acq On : 27 Dec 2024 16:57
Operator : JC\MD
Sample : VN1227WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:42:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

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

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

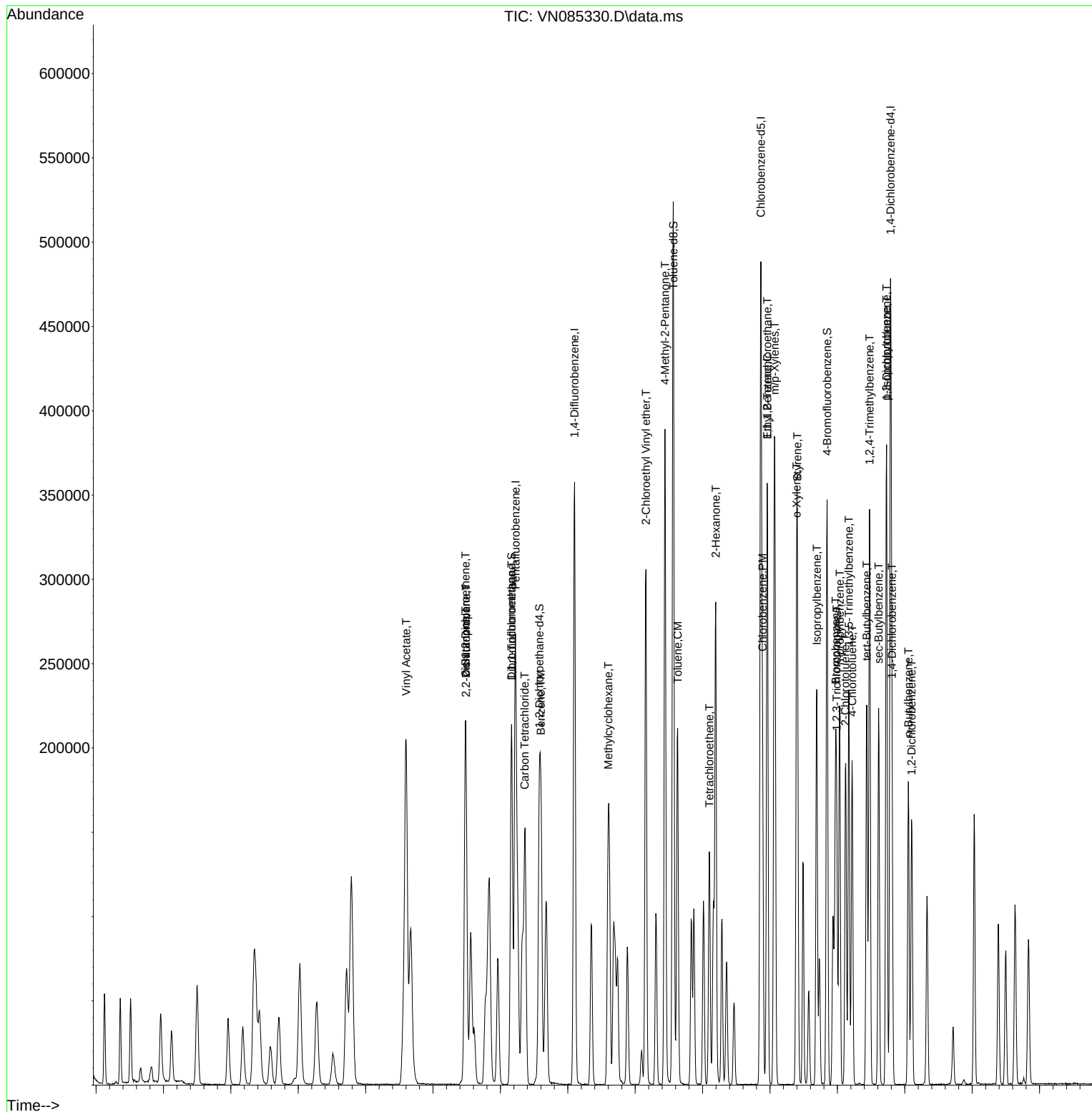
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085330.D
Acq On : 27 Dec 2024 16:57
Operator : JC\MD
Sample : VN1227WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

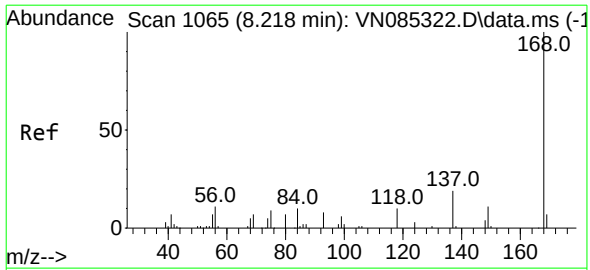
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Manual Integrations

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

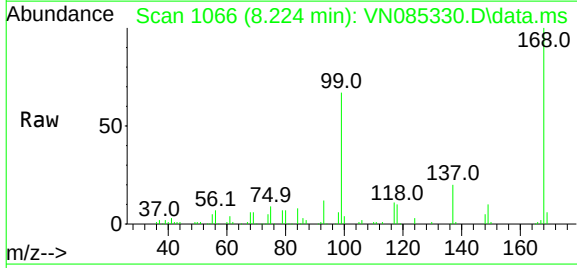
Quant Time: Dec 28 01:42:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

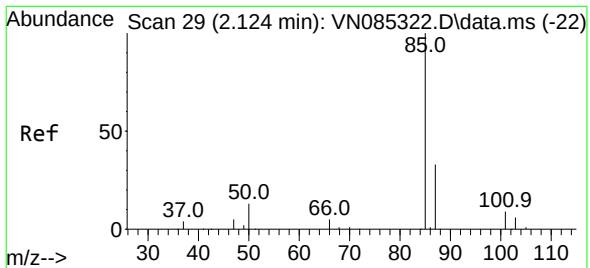
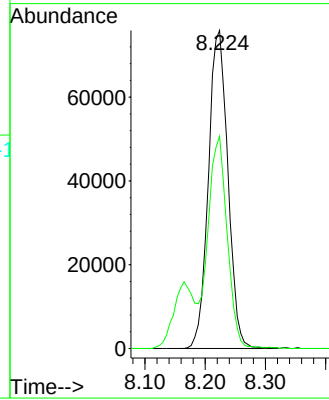
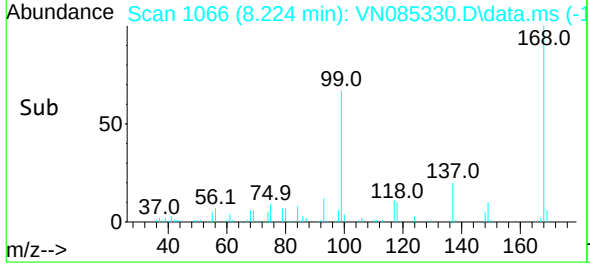
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01



Tgt Ion: 168 Resp: 170735
Ion Ratio Lower Upper
168 100
99 66.7 51.0 76.4

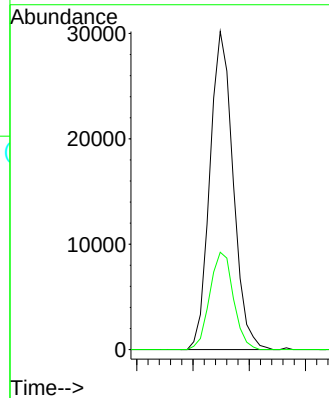
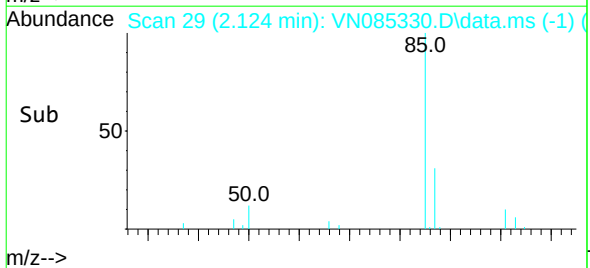
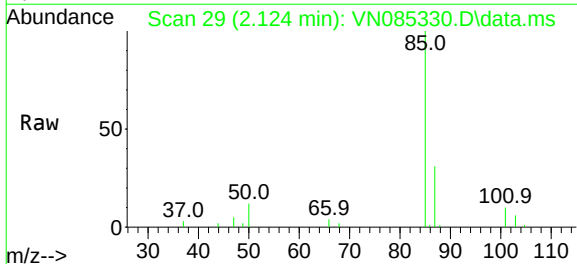
Manual Integrations
APPROVED

Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024

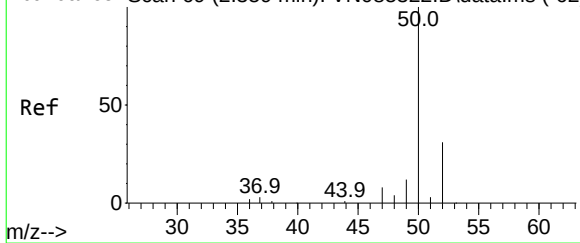


#2
Dichlorodifluoromethane
Concen: 18.817 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Tgt Ion: 85 Resp: 43449
Ion Ratio Lower Upper
85 100
87 30.6 16.8 50.3



Abundance Scan 69 (2.359 min): VN085322.D\data.ms (-62)



#3

Chloromethane

Concen: 16.780 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 50 Resp: 43547

Ion Ratio Lower Upper

50 100

52 31.6 25.1 37.7

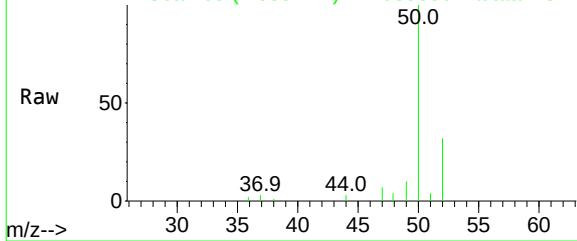
Manual Integrations

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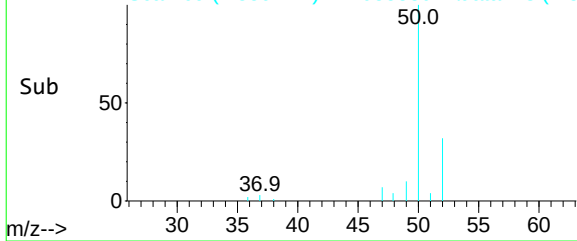
Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024

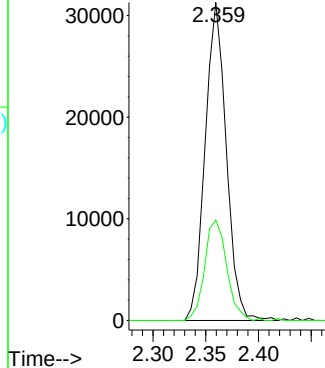
Abundance Scan 69 (2.359 min): VN085330.D\data.ms



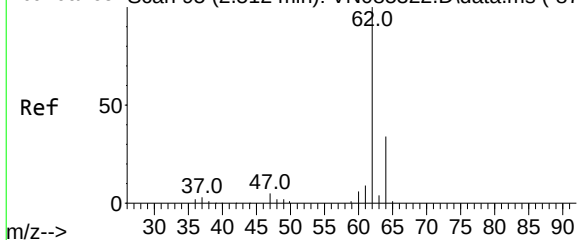
Abundance Scan 69 (2.359 min): VN085330.D\data.ms (-18)



Abundance



Abundance Scan 95 (2.512 min): VN085322.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 16.768 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

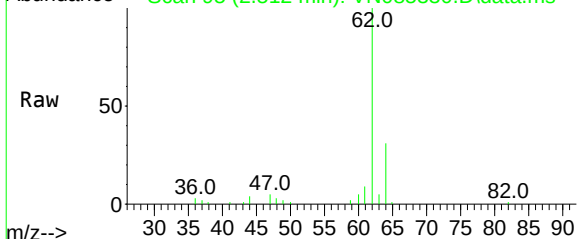
Tgt Ion: 62 Resp: 46023

Ion Ratio Lower Upper

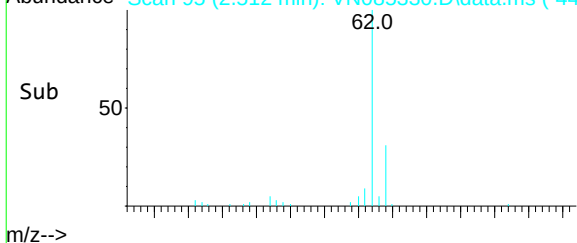
62 100

64 31.4 27.0 40.6

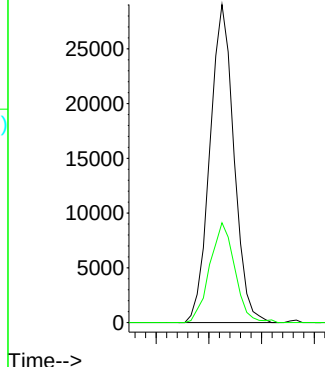
Abundance Scan 95 (2.512 min): VN085330.D\data.ms

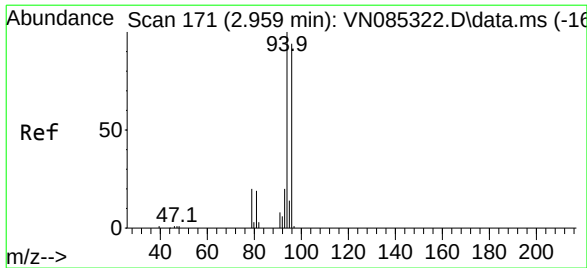


Abundance Scan 95 (2.512 min): VN085330.D\data.ms (-44)



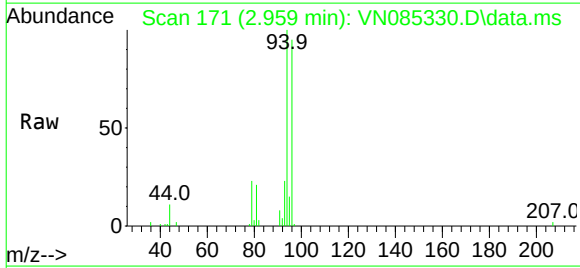
Abundance





#5
Bromomethane
Concen: 16.639 ug/l
RT: 2.959 min Scan# 171
Delta R.T. 0.000 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

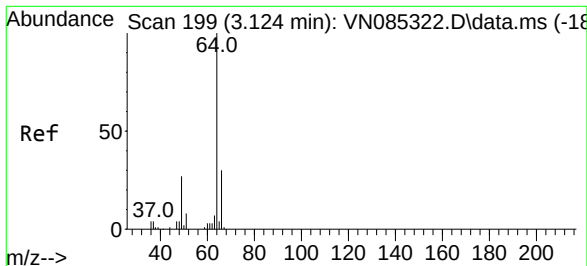
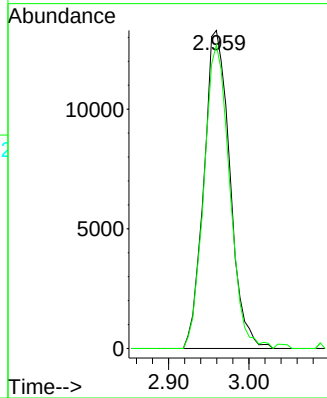
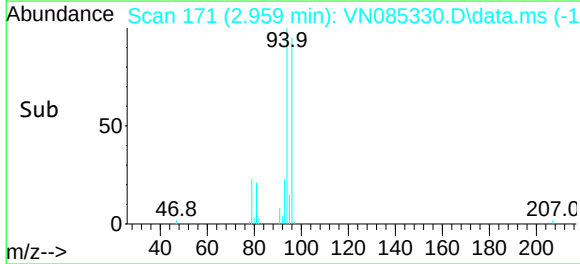
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01



Tgt Ion: 94 Resp: 29868
Ion Ratio Lower Upper
94 100
96 95.5 75.2 112.8

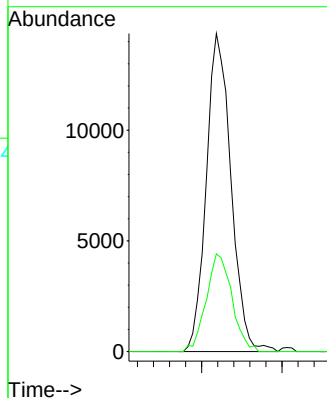
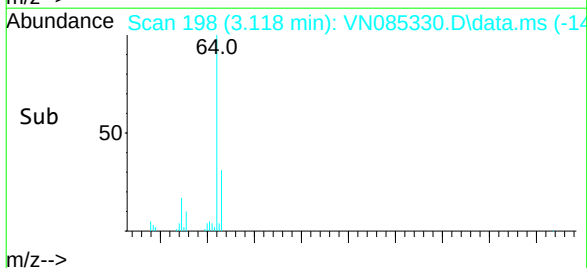
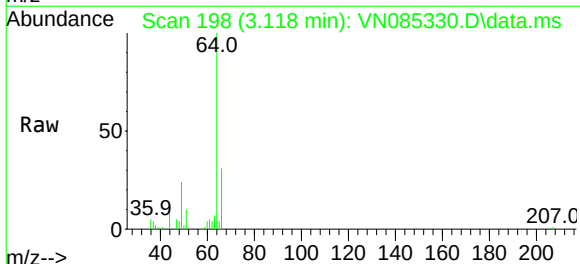
Manual Integrations
APPROVED

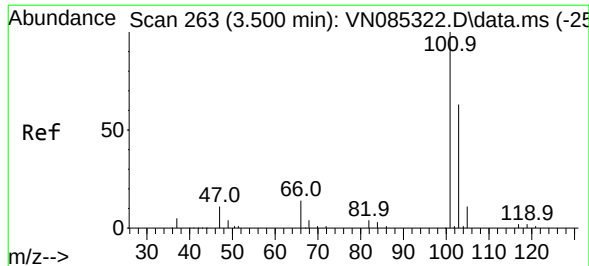
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#6
Chloroethane
Concen: 17.634 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Tgt Ion: 64 Resp: 30694
Ion Ratio Lower Upper
64 100
66 30.7 24.1 36.1





#7

Trichlorofluoromethane

Concen: 17.674 ug/l

RT: 3.501 min Scan# 263

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion:101 Resp: 63768

Ion Ratio Lower Upper

101 100

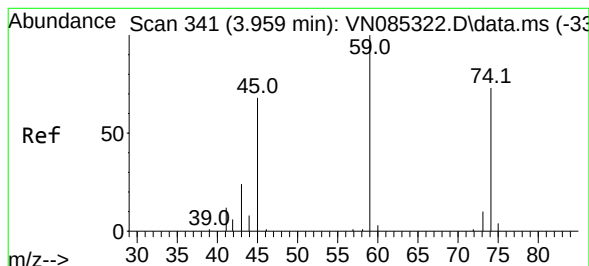
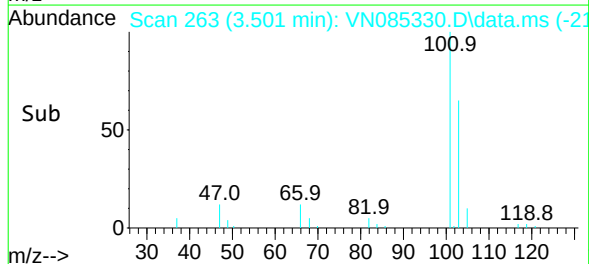
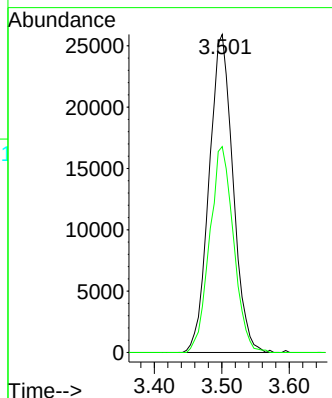
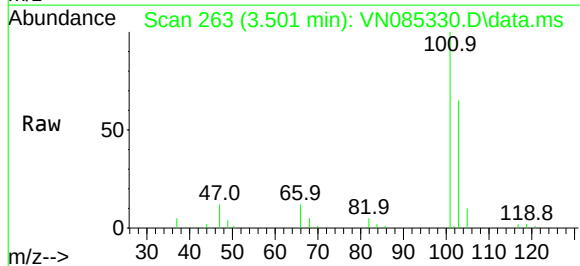
103 64.7 50.3 75.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#8

Diethyl Ether

Concen: 18.186 ug/l

RT: 3.959 min Scan# 341

Delta R.T. 0.000 min

Lab File: VN085330.D

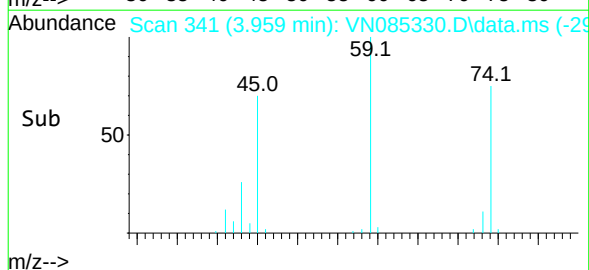
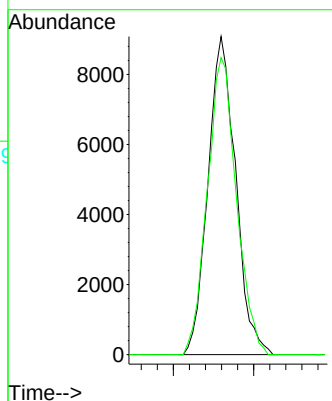
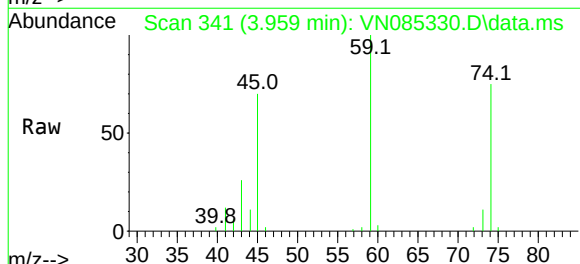
Acq: 27 Dec 2024 16:57

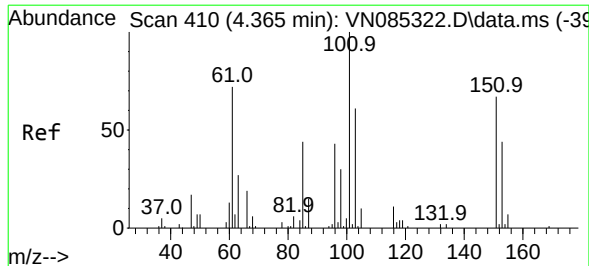
Tgt Ion: 74 Resp: 21725

Ion Ratio Lower Upper

74 100

45 98.3 47.5 142.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.480 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion:101 Resp: 35886

Ion Ratio Lower Upper

101 100

85 47.1 36.2 54.4

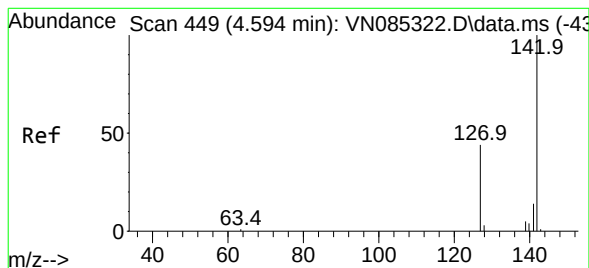
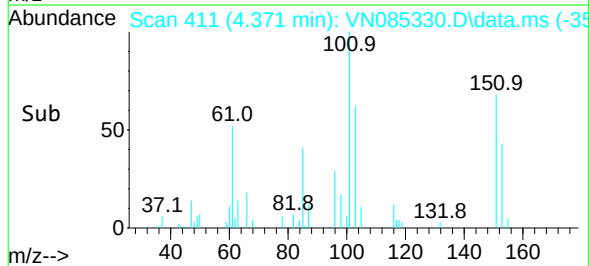
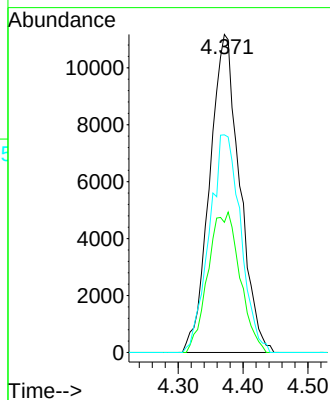
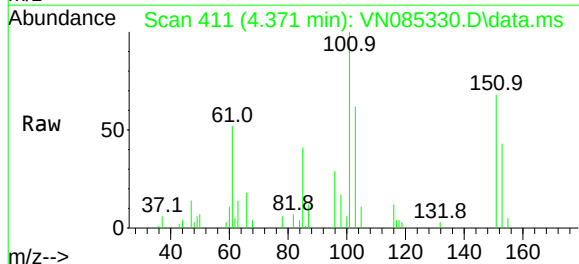
151 71.6 55.8 83.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#10

Methyl Iodide

Concen: 17.229 ug/l

RT: 4.589 min Scan# 448

Delta R.T. -0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

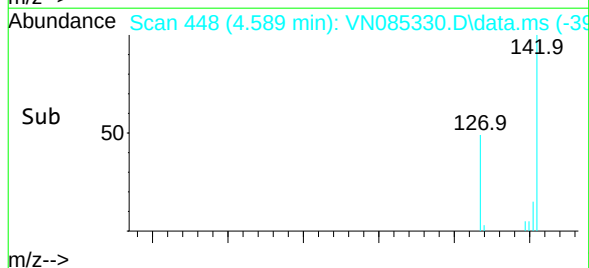
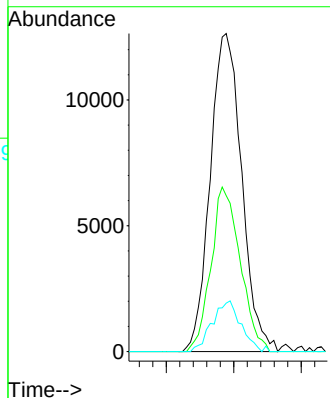
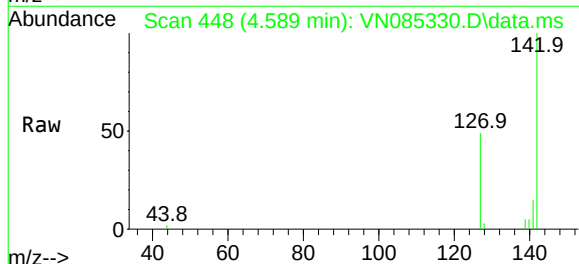
Tgt Ion:142 Resp: 40932

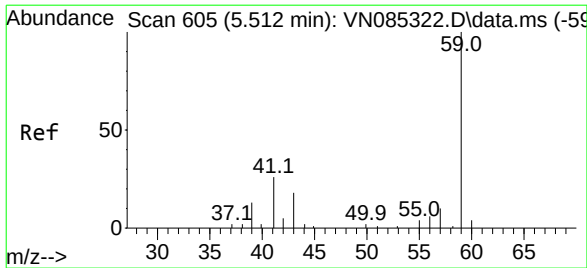
Ion Ratio Lower Upper

142 100

127 49.0 35.3 52.9

141 15.2 11.5 17.3





#11

Tert butyl alcohol

Concen: 104.934 ug/l

RT: 5.506 min Scan# 605

Delta R.T. -0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 59 Resp: 31998

Ion Ratio Lower Upper

59 100

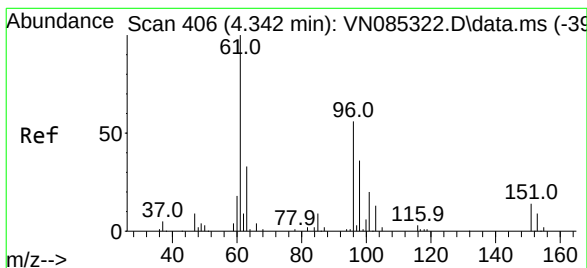
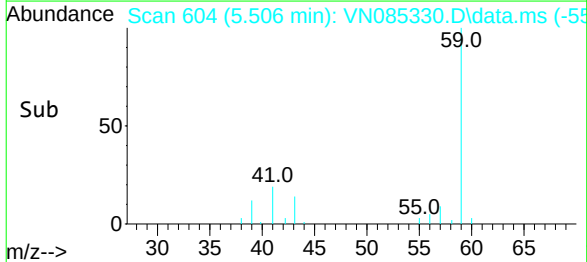
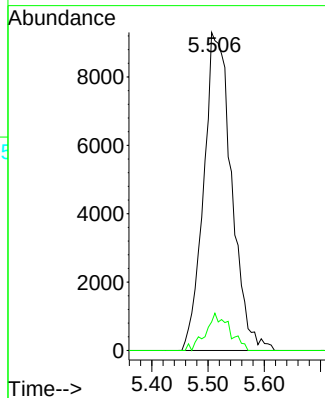
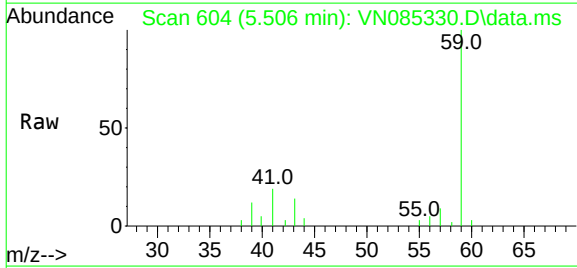
57 10.1 8.1 12.1

Manual Integrations

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Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#12

1,1-Dichloroethene

Concen: 17.414 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

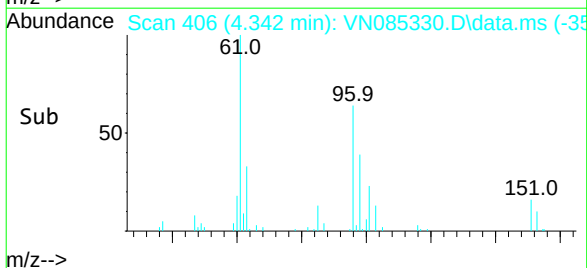
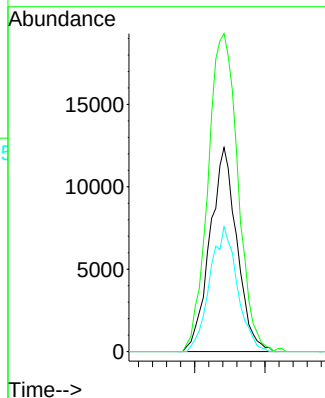
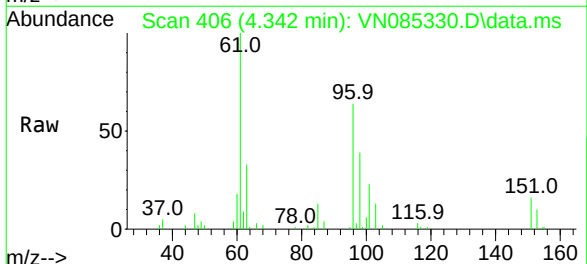
Tgt Ion: 96 Resp: 33040

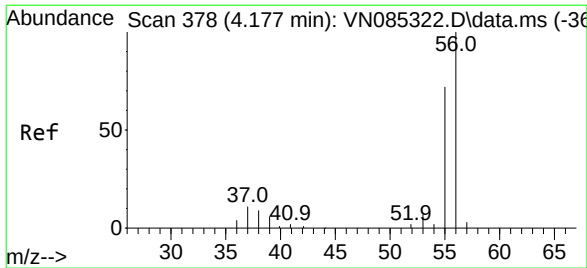
Ion Ratio Lower Upper

96 100

61 155.9 142.4 213.6

98 61.2 51.5 77.3





#13

Acrolein

Concen: 87.943 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 56 Resp: 41809

Ion Ratio Lower Upper

56 100

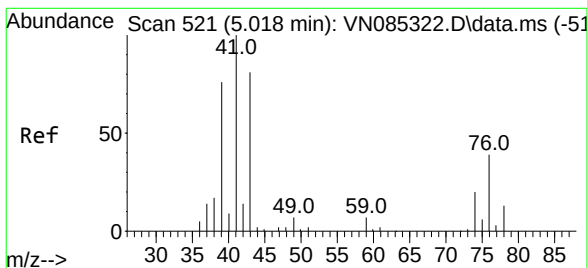
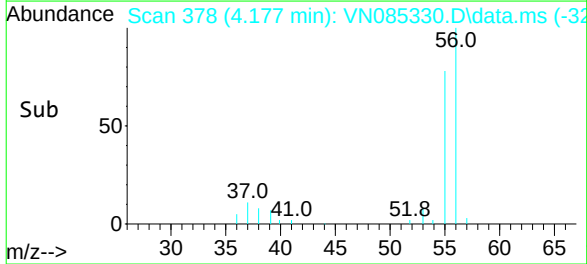
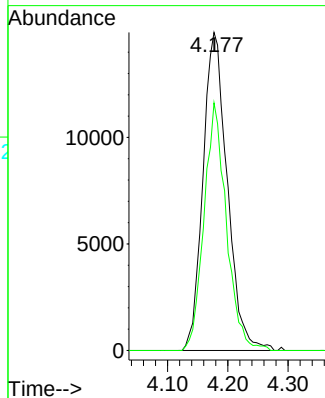
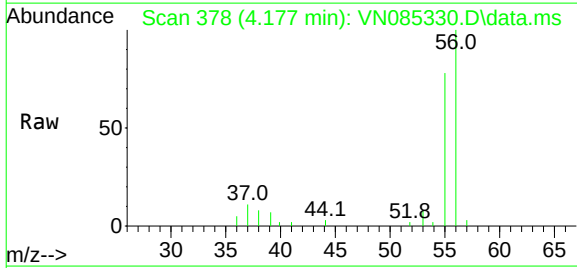
55 71.7 57.5 86.3

Manual Integrations

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Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#14

Allyl chloride

Concen: 16.315 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

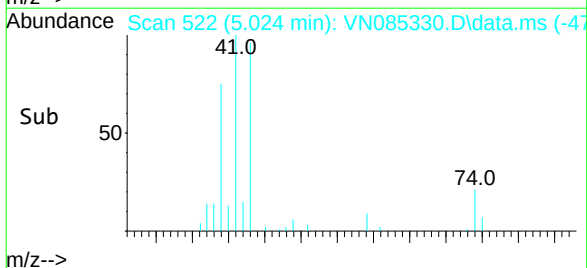
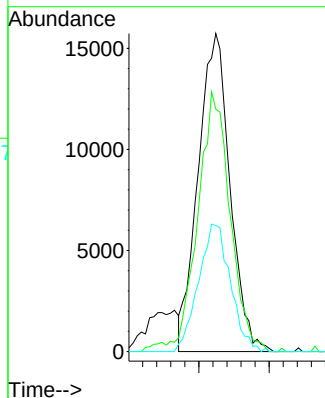
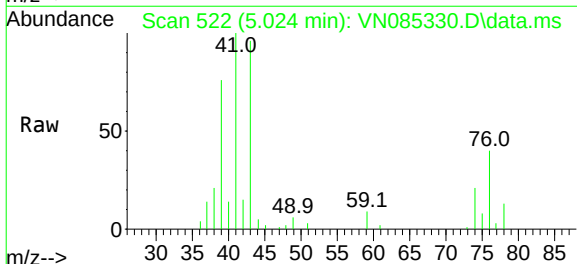
Tgt Ion: 41 Resp: 49542

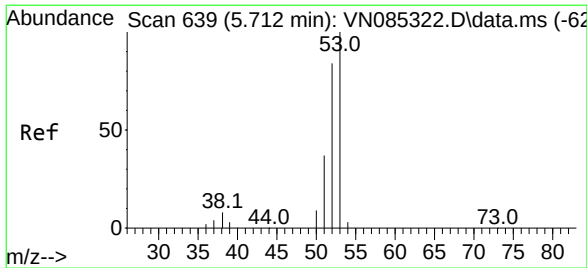
Ion Ratio Lower Upper

41 100

39 82.1 64.4 96.6

76 40.1 31.5 47.3





#15

Acrylonitrile

Concen: 94.155 ug/l

RT: 5.718 min Scan# 64

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 53 Resp: 90364

Ion Ratio Lower Upper

53 100

52 81.5 66.6 100.0

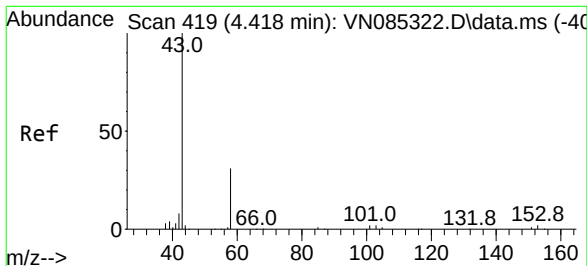
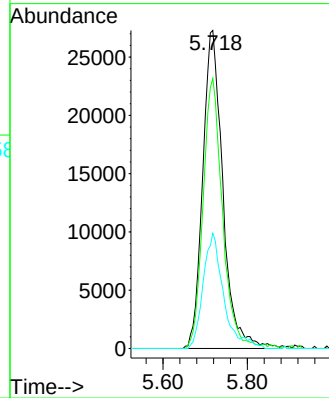
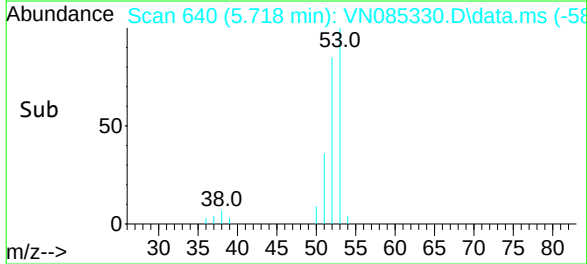
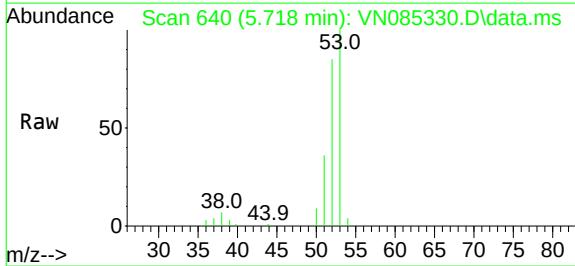
51 34.8 29.6 44.4

Manual Integrations

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Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#16

Acetone

Concen: 96.477 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.006 min

Lab File: VN085330.D

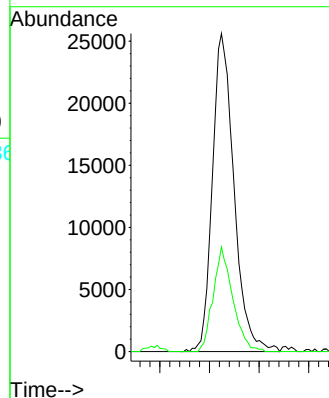
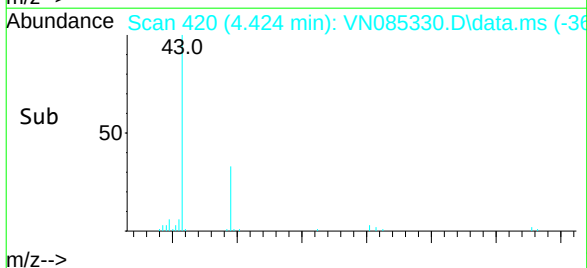
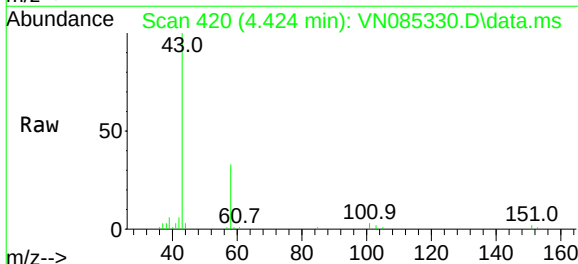
Acq: 27 Dec 2024 16:57

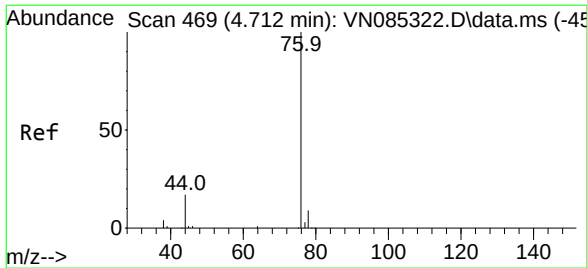
Tgt Ion: 43 Resp: 77254

Ion Ratio Lower Upper

43 100

58 32.9 24.5 36.7





#17

Carbon Disulfide

Concen: 15.605 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 76 Resp: 90070

Ion Ratio Lower Upper

76 100

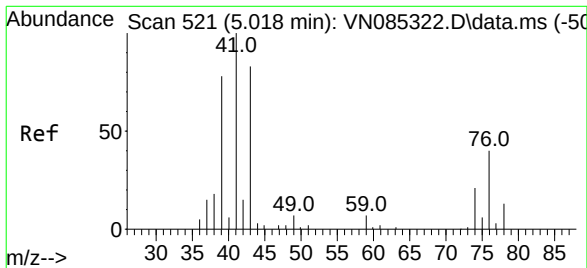
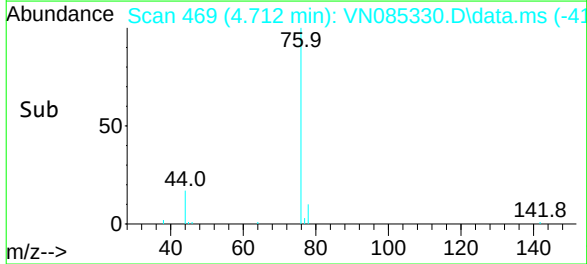
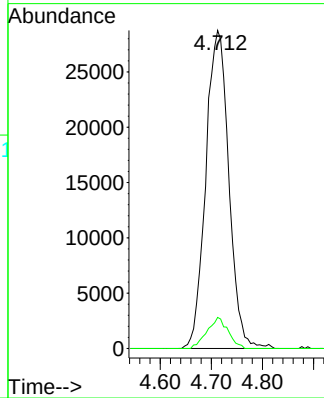
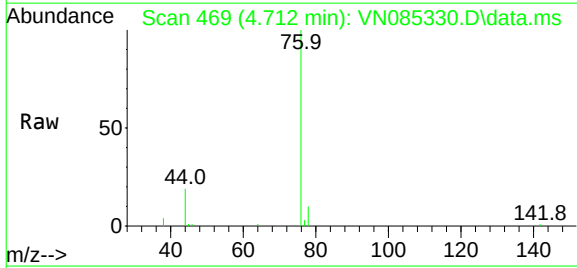
78 9.8 7.2 10.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#18

Methyl Acetate

Concen: 19.175 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085330.D

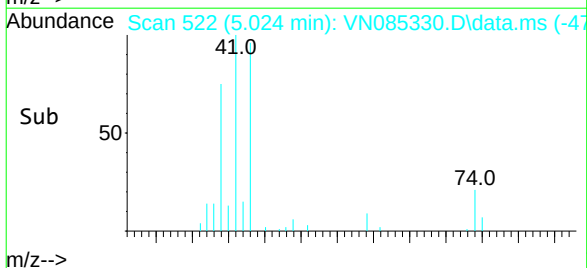
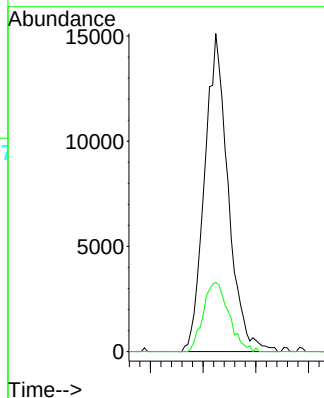
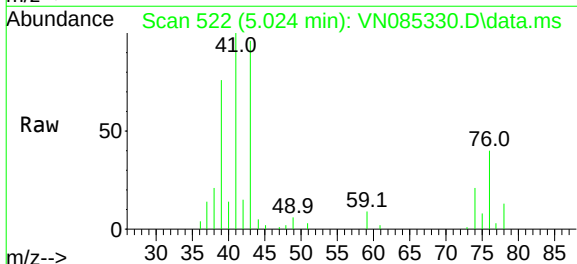
Acq: 27 Dec 2024 16:57

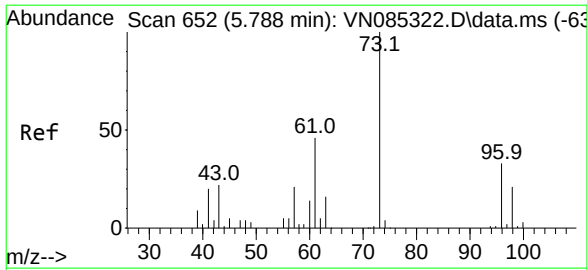
Tgt Ion: 43 Resp: 47009

Ion Ratio Lower Upper

43 100

74 23.6 19.0 28.6





#19

Methyl tert-butyl Ether

Concen: 17.924 ug/l

RT: 5.795 min Scan# 65

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 73 Resp: 110534

Ion Ratio Lower Upper

73 100

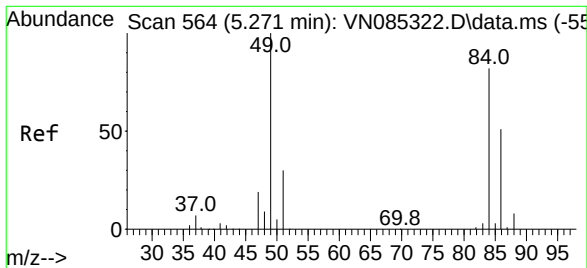
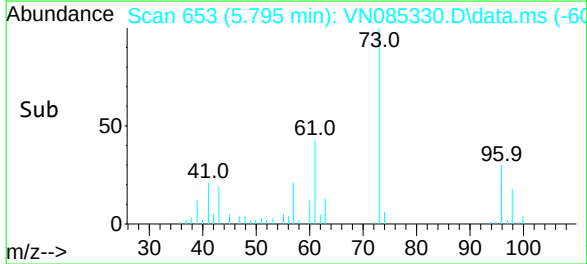
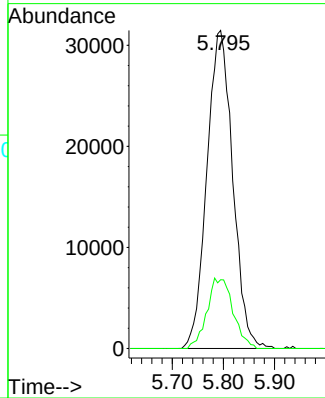
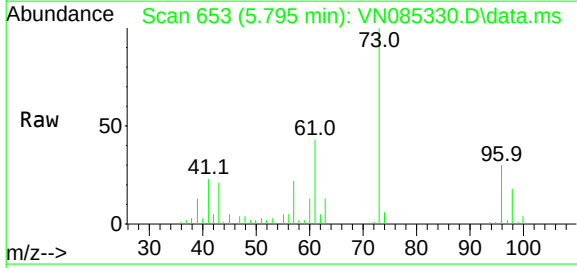
57 21.6 17.0 25.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#20

Methylene Chloride

Concen: 17.488 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Tgt Ion: 84 Resp: 37667

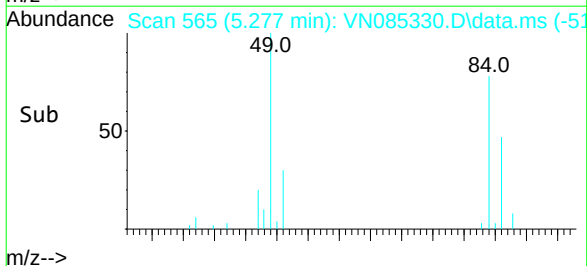
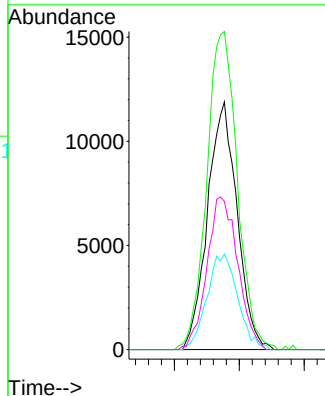
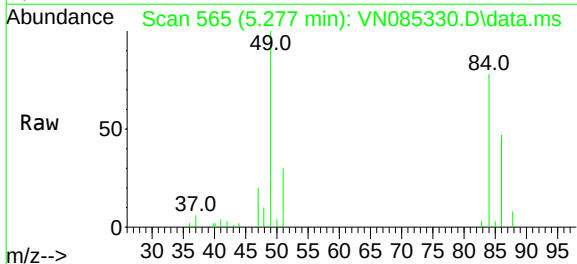
Ion Ratio Lower Upper

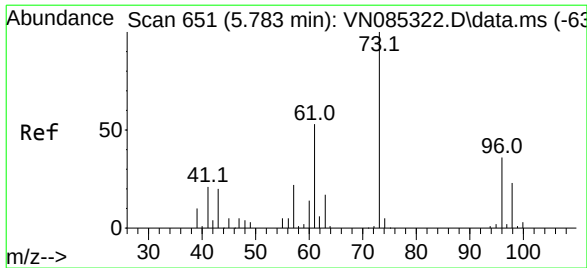
84 100

49 128.4 97.6 146.4

51 38.5 29.1 43.7

86 59.8 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 16.815 ug/l

RT: 5.789 min Scan# 651

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 96 Resp: 33327

Ion Ratio Lower Upper

96 100

61 136.1 118.0 177.0

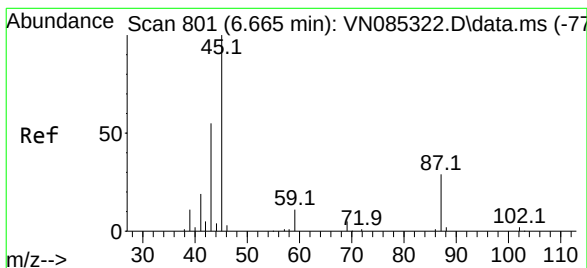
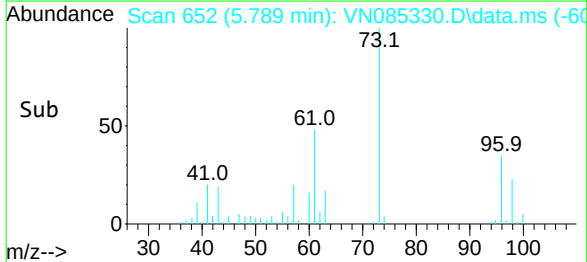
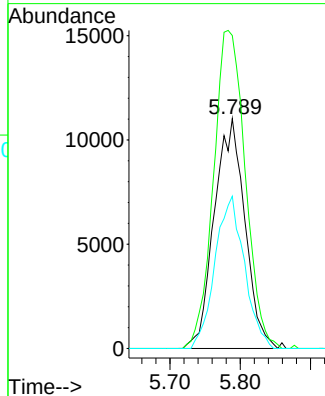
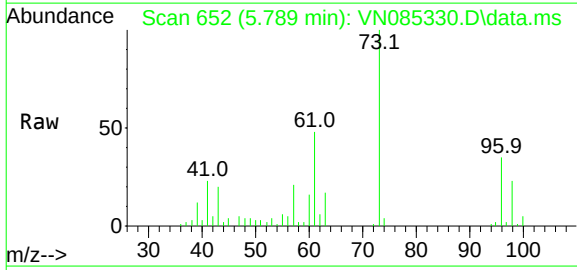
98 66.2 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#22

Diisopropyl ether

Concen: 18.035 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Tgt Ion: 45 Resp: 118015

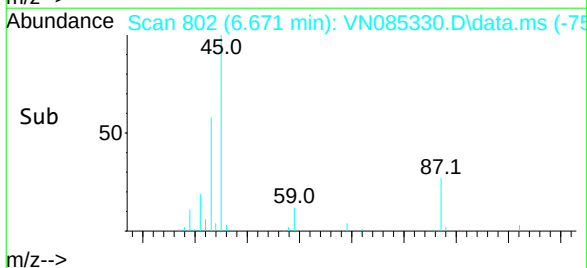
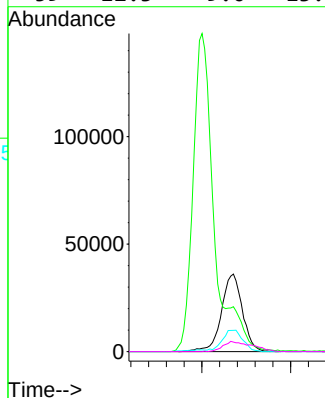
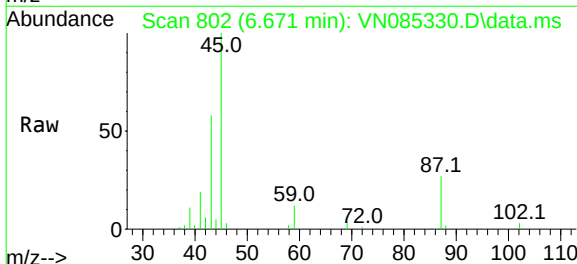
Ion Ratio Lower Upper

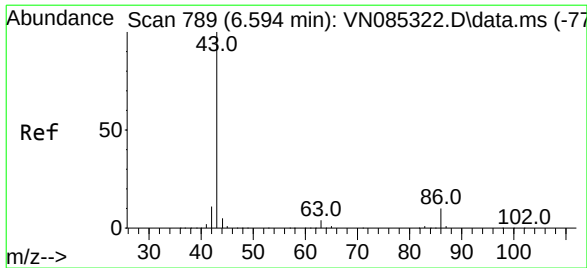
45 100

43 55.9 44.1 66.1

87 27.4 23.2 34.8

59 12.3 9.0 13.6





#23

Vinyl Acetate

Concen: 91.855 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 43 Resp: 434816

Ion Ratio Lower Upper

43 100

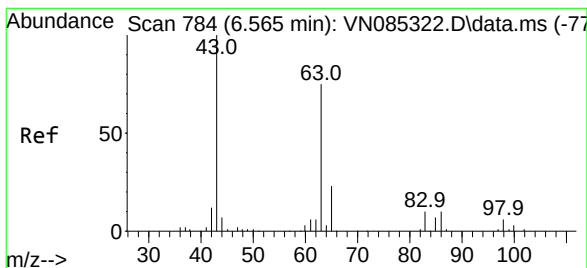
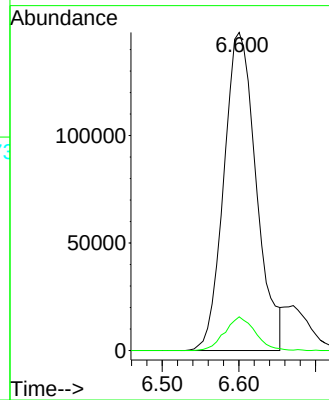
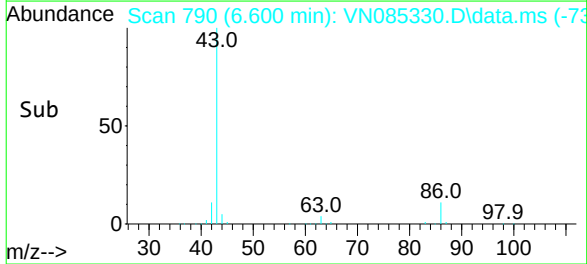
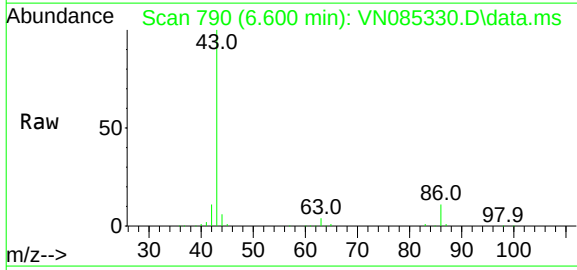
86 10.6 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#24

1,1-Dichloroethane

Concen: 17.566 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

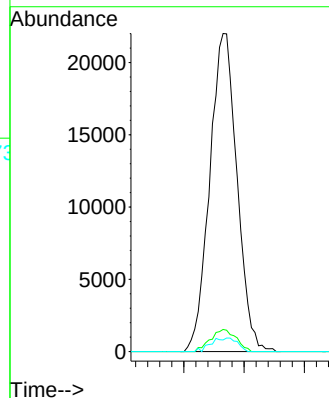
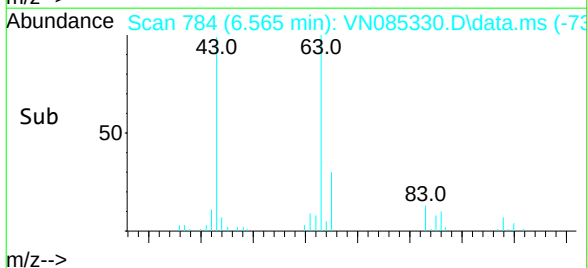
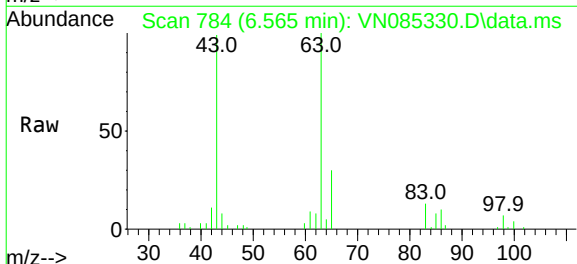
Tgt Ion: 63 Resp: 69242

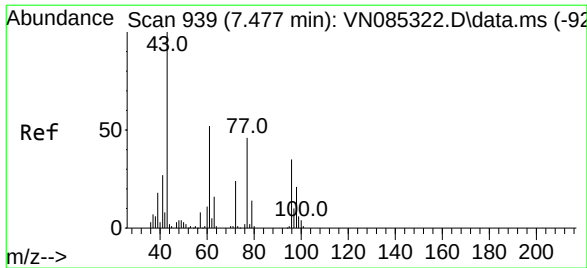
Ion Ratio Lower Upper

63 100

98 7.0 3.7 11.1

100 3.7 2.3 6.8





#25

2-Butanone

Concen: 96.241 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 43 Resp: 119558

Ion Ratio Lower Upper

43 100

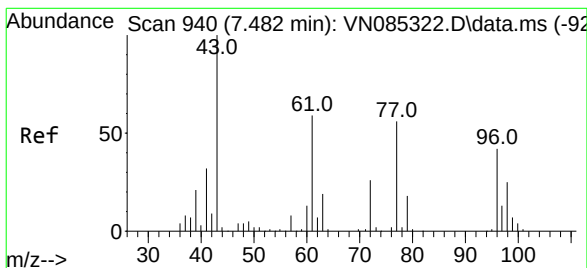
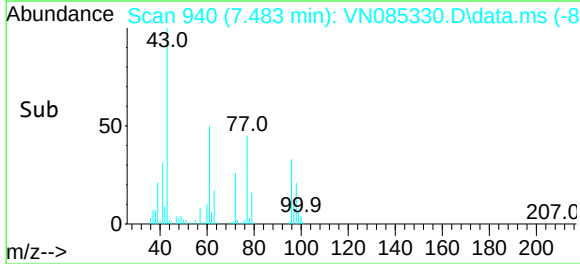
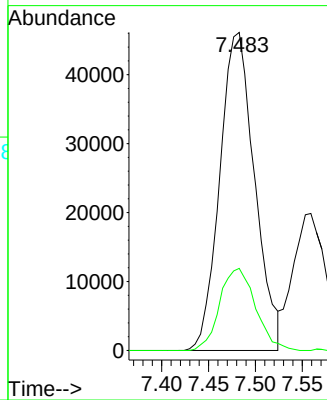
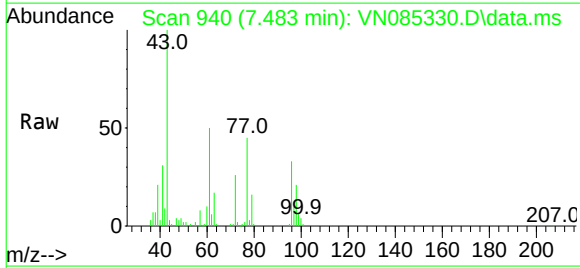
72 25.8 19.6 29.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#26

2,2-Dichloropropane

Concen: 17.294 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085330.D

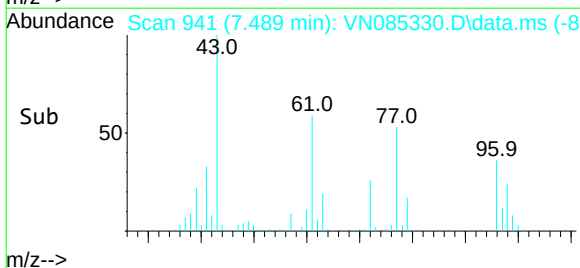
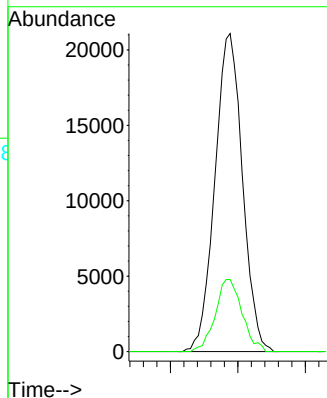
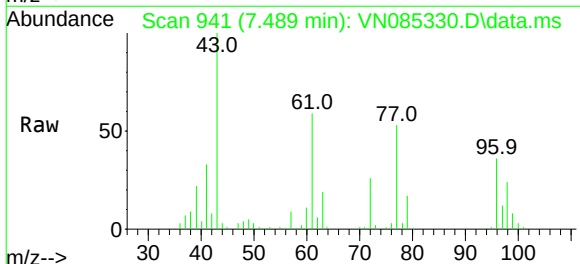
Acq: 27 Dec 2024 16:57

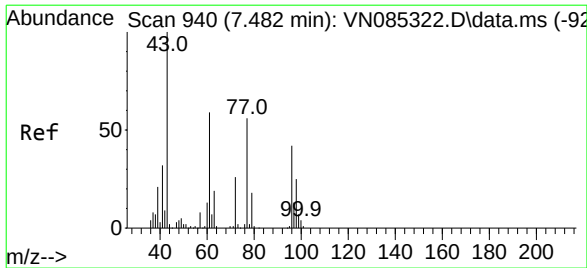
Tgt Ion: 77 Resp: 59724

Ion Ratio Lower Upper

77 100

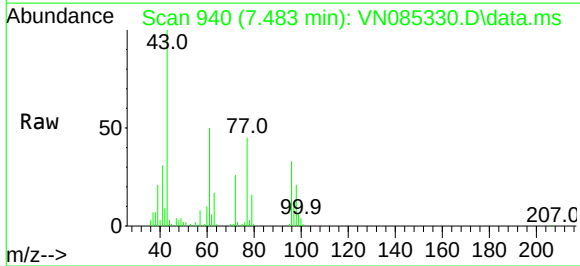
97 22.1 10.6 31.8





#27
cis-1,2-Dichloroethene
Concen: 17.533 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

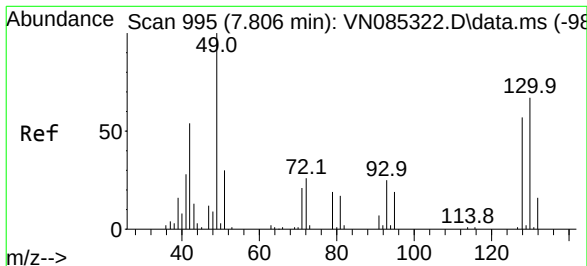
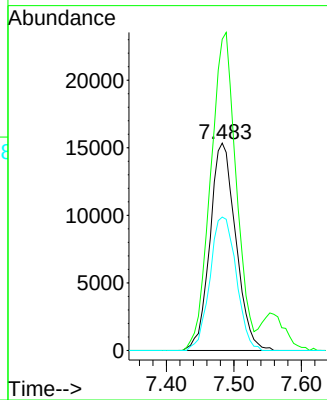
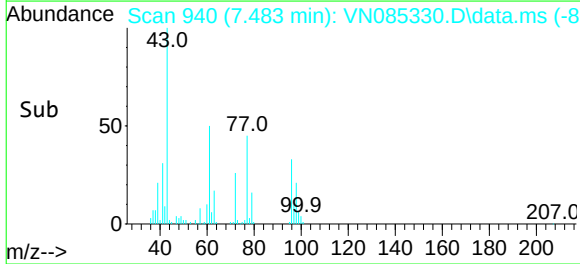
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01



Tgt Ion: 96 Resp: 40786
Ion Ratio Lower Upper
96 100
61 151.9 0.0 296.4
98 65.7 0.0 124.2

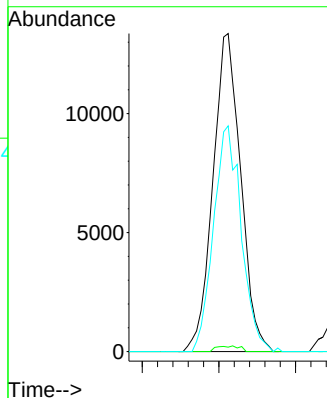
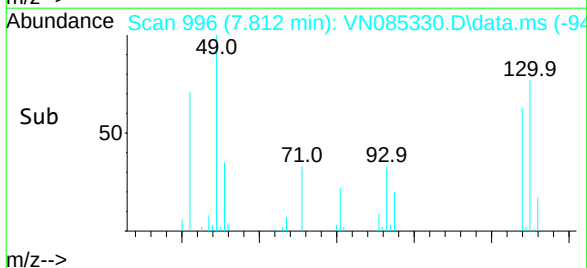
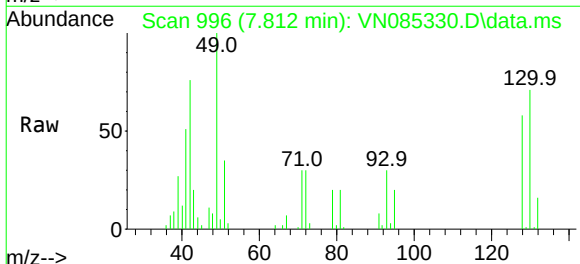
Manual Integrations
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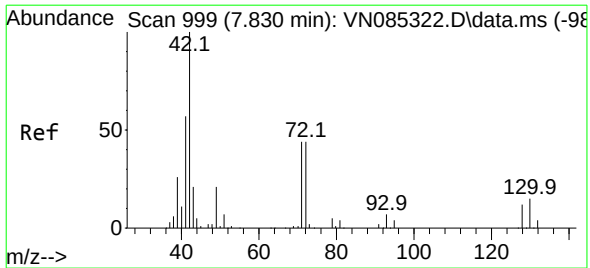
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#28
Bromochloromethane
Concen: 18.335 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Tgt Ion: 49 Resp: 33586
Ion Ratio Lower Upper
49 100
129 0.8 0.0 2.0
130 70.9 0.0 0.0#





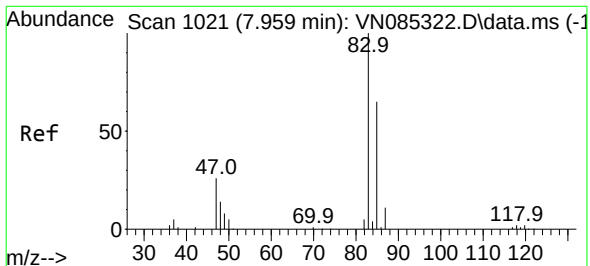
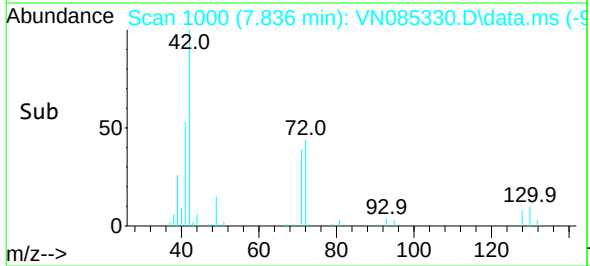
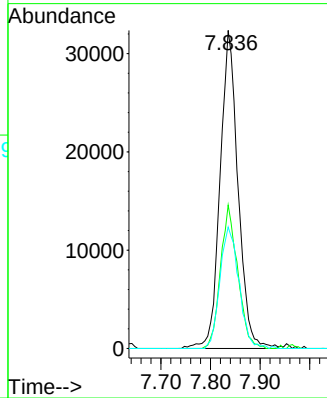
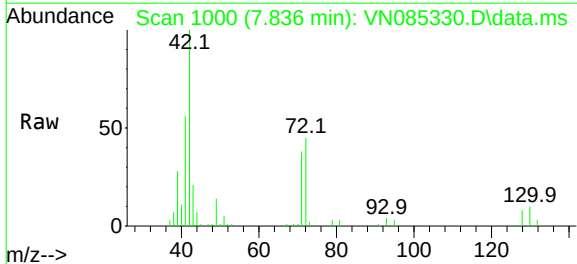
#29
Tetrahydrofuran
Concen: 101.699 ug/l
RT: 7.836 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.4	35.1	52.7
71	40.3	33.4	50.0

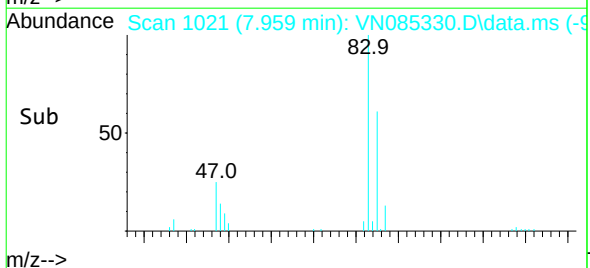
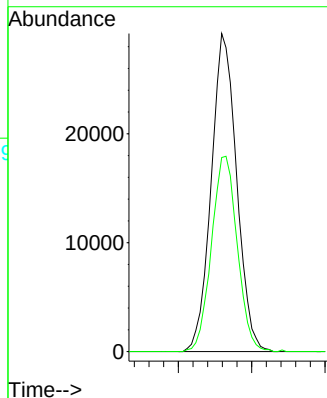
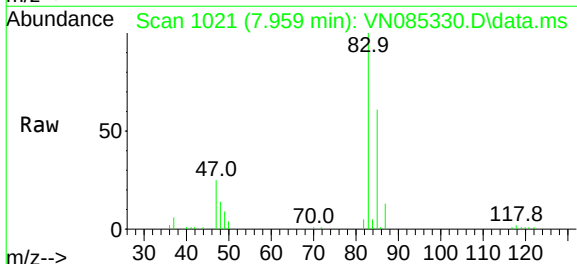
Manual Integrations
APPROVED

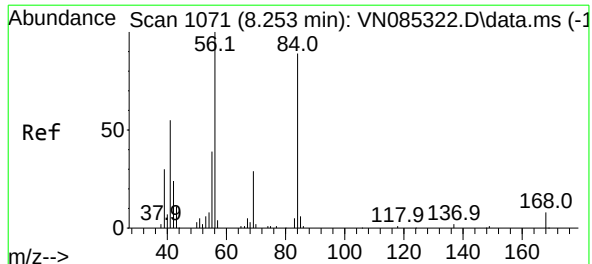
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#30
Chloroform
Concen: 17.446 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. 0.000 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.0	52.0	78.0





#31

Cyclohexane

Concen: 16.621 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 56 Resp: 59824

Ion Ratio Lower Upper

56 100

69 31.2 23.4 35.0

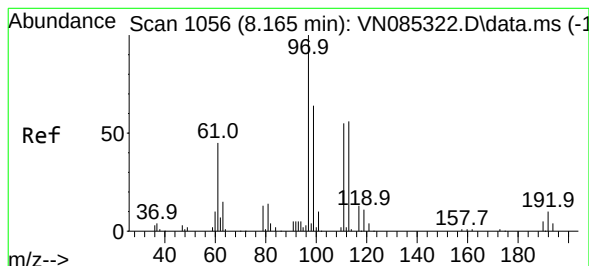
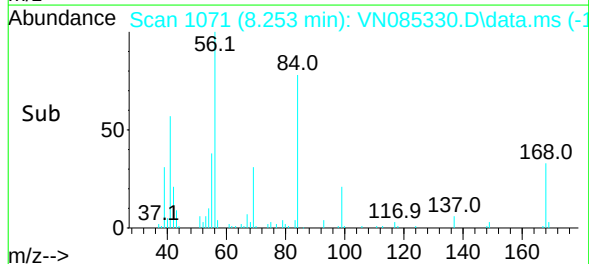
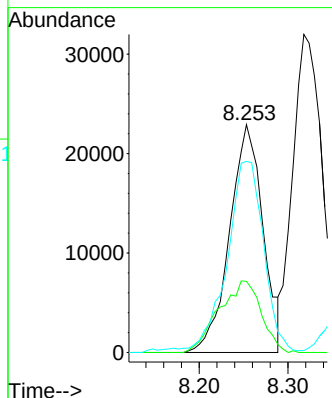
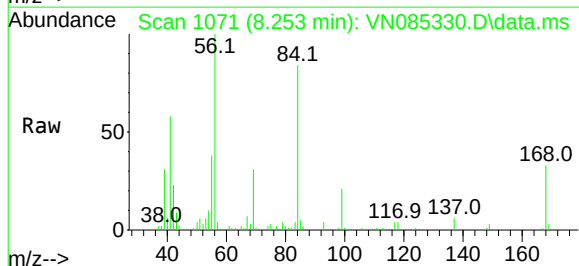
84 82.3 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#32

1,1,1-Trichloroethane

Concen: 17.033 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

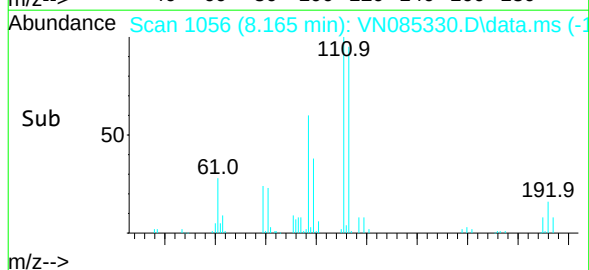
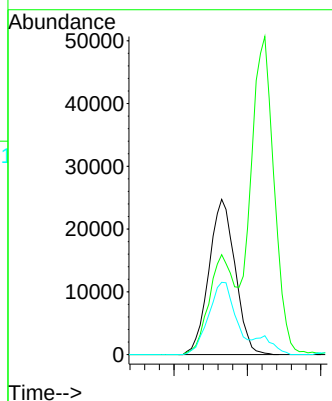
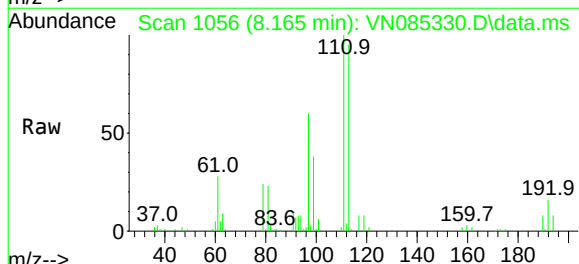
Tgt Ion: 97 Resp: 61343

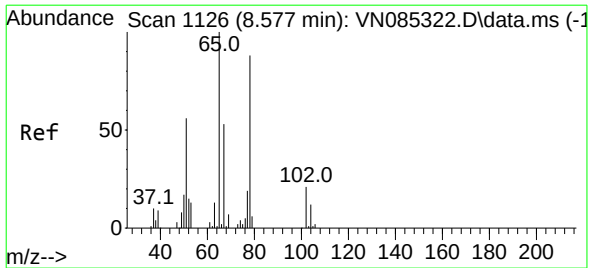
Ion Ratio Lower Upper

97 100

99 64.0 53.3 79.9

61 48.9 39.6 59.4





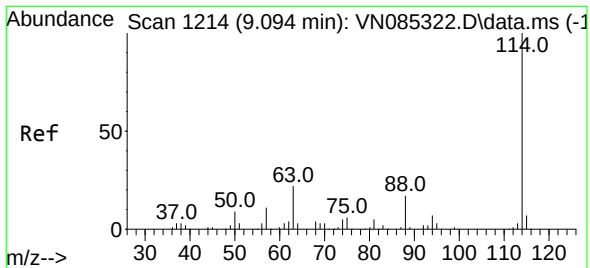
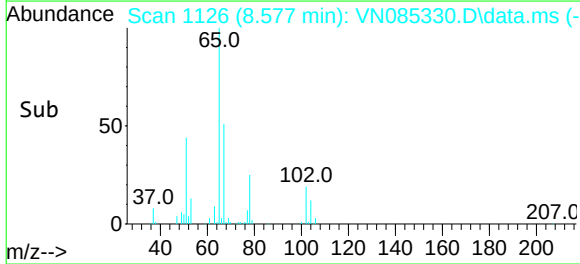
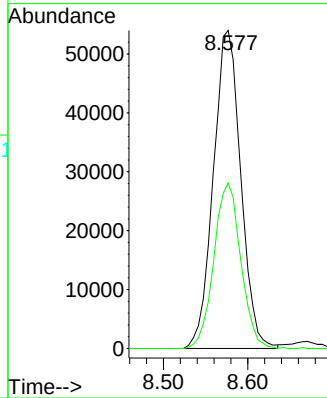
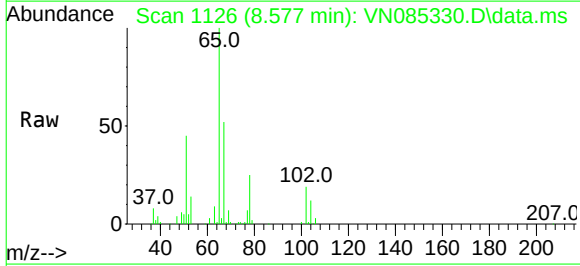
#33
1,2-Dichloroethane-d4
Concen: 50.057 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion: 65 Resp: 121898
Ion Ratio Lower Upper
65 100
67 51.0 0.0 104.0

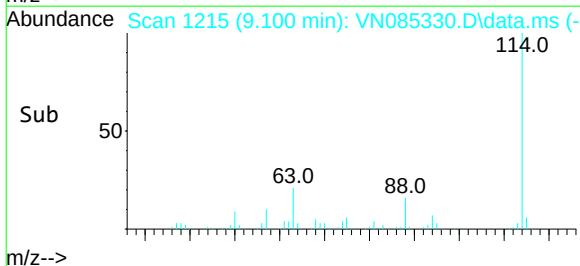
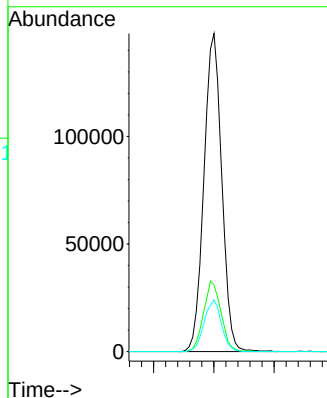
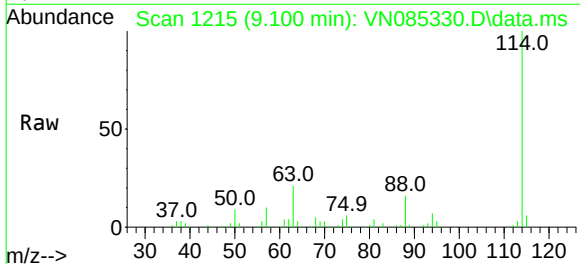
Manual Integrations
APPROVED

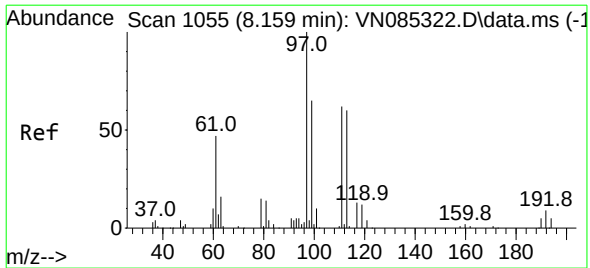
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Tgt Ion:114 Resp: 303482
Ion Ratio Lower Upper
114 100
63 20.9 0.0 43.4
88 16.3 0.0 33.6





#35

Dibromofluoromethane

Concen: 49.656 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 113 Resp: 94013

Ion Ratio Lower Upper

113 100

111 105.6 80.5 120.7

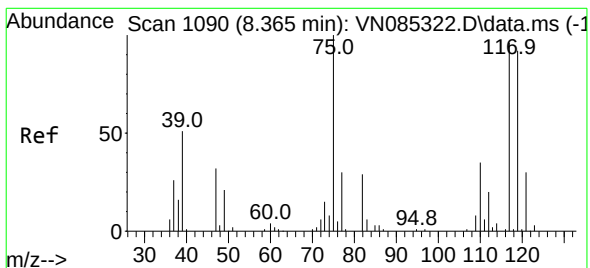
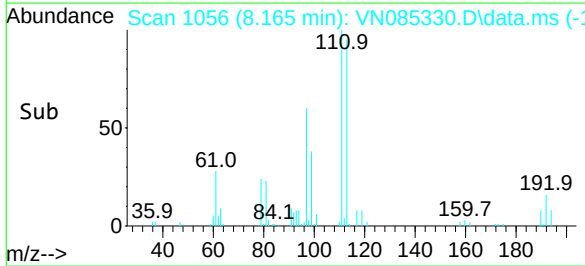
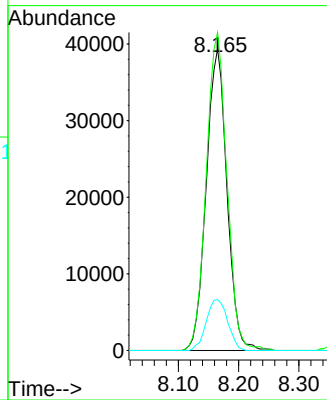
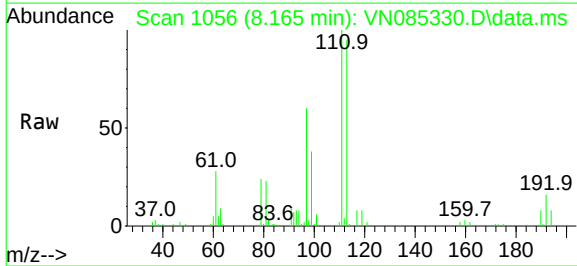
192 17.4 12.9 19.3

Manual Integrations

APPROVED

Reviewed By : John Carlone 12/30/2024

Supervised By : Mahesh Dadoda 12/30/2024



#36

1,1-Dichloropropene

Concen: 17.343 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

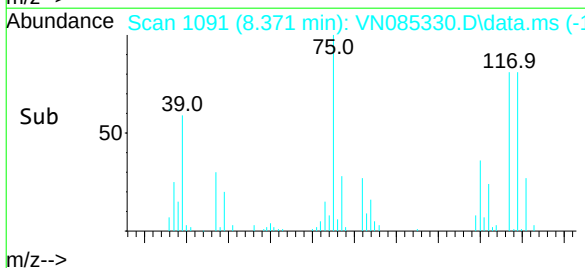
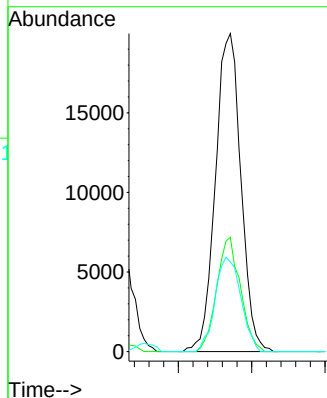
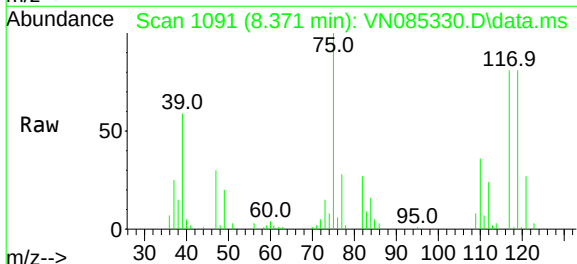
Tgt Ion: 75 Resp: 48077

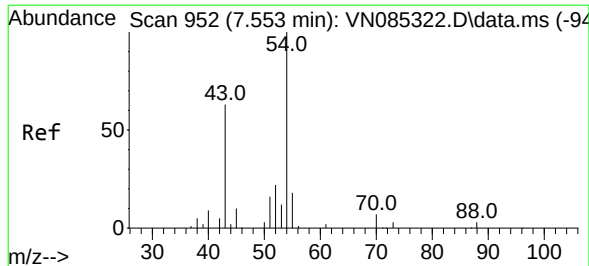
Ion Ratio Lower Upper

75 100

110 33.5 16.6 49.8

77 30.0 24.3 36.5





#37

Ethyl Acetate

Concen: 18.768 ug/l

RT: 7.559 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

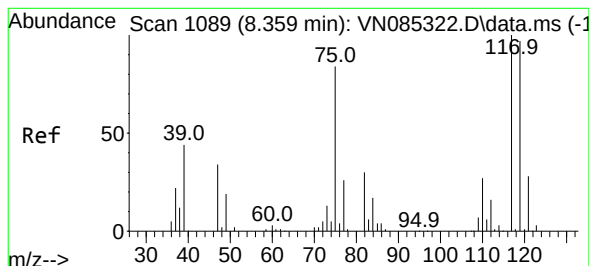
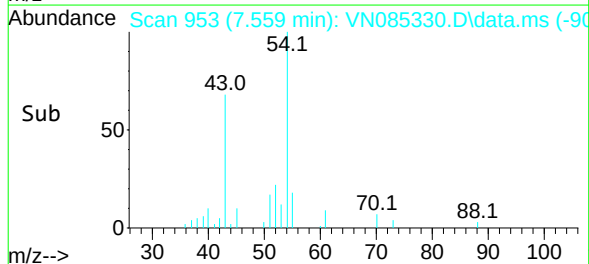
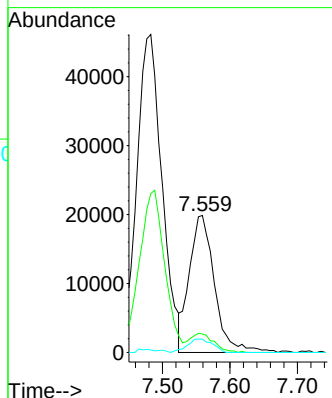
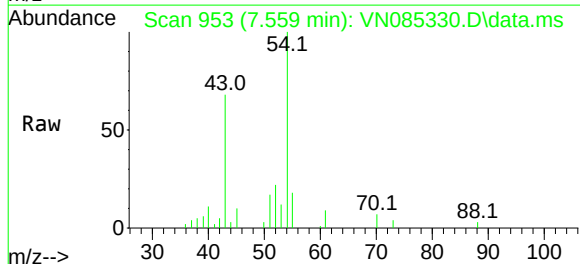
ClientSampleId :

VN1227WBS01

Tgt Ion:	43	Resp:	51711
Ion	Ratio	Lower	Upper
43	100		
61	12.5	10.4	15.6
70	9.8	8.2	12.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#38

Carbon Tetrachloride

Concen: 17.641 ug/l

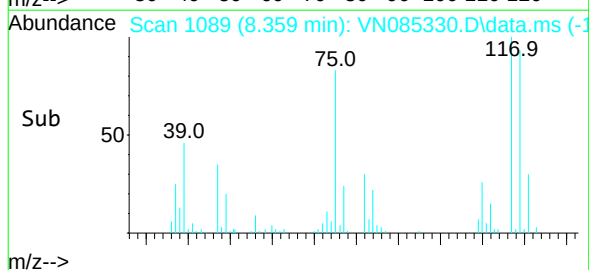
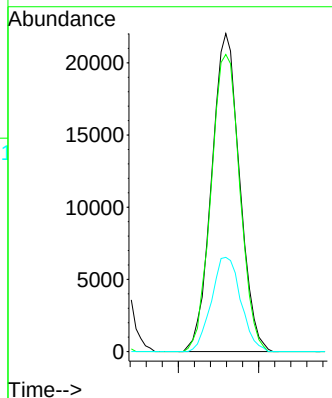
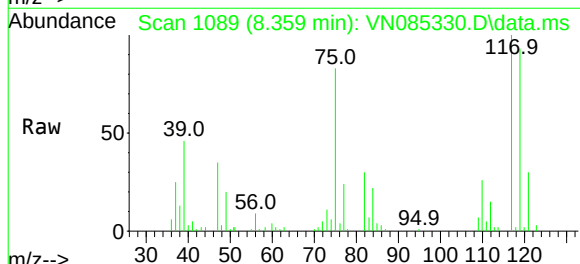
RT: 8.359 min Scan# 1089

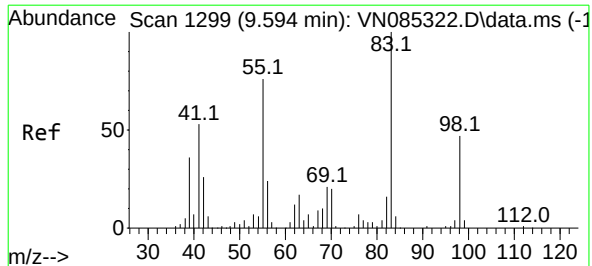
Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Tgt Ion:	117	Resp:	53303
Ion	Ratio	Lower	Upper
117	100		
119	93.4	77.8	116.6
121	29.6	22.5	33.7





#39

Methylcyclohexane

Concen: 17.312 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 83 Resp: 49793

Ion Ratio Lower Upper

83 100

55 76.1 60.7 91.1

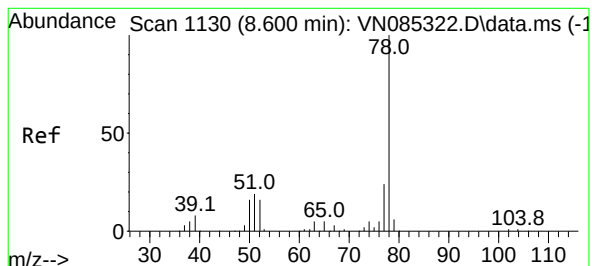
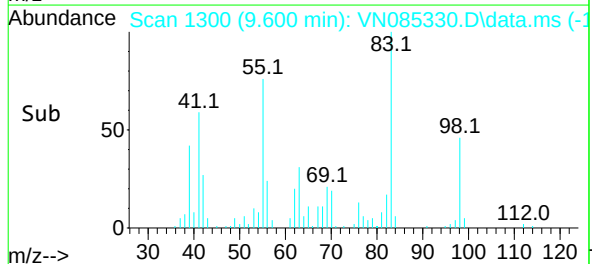
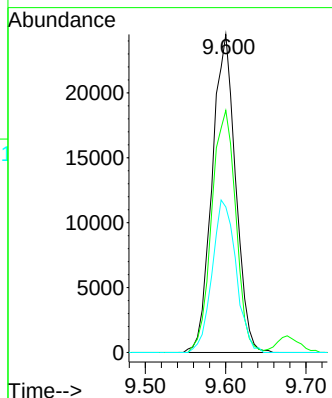
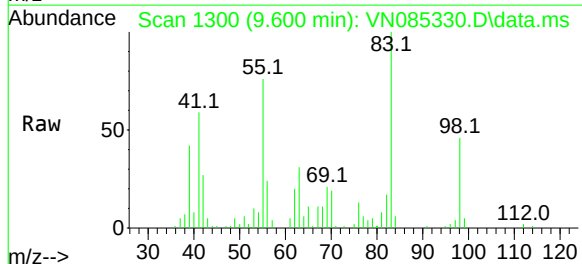
98 45.7 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#40

Benzene

Concen: 17.534 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085330.D

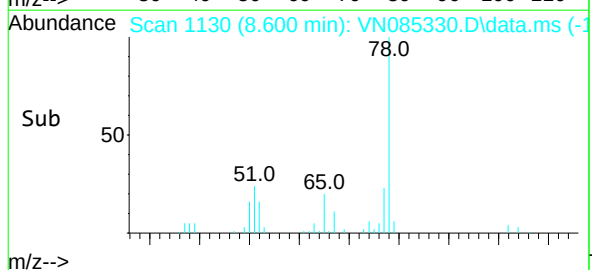
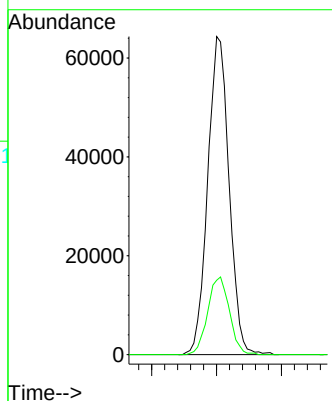
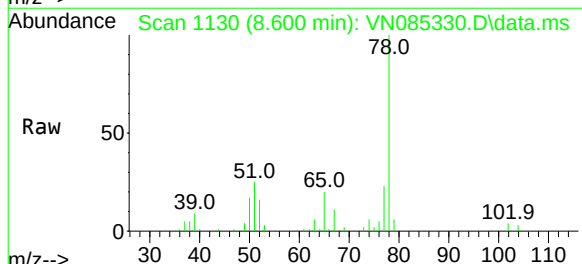
Acq: 27 Dec 2024 16:57

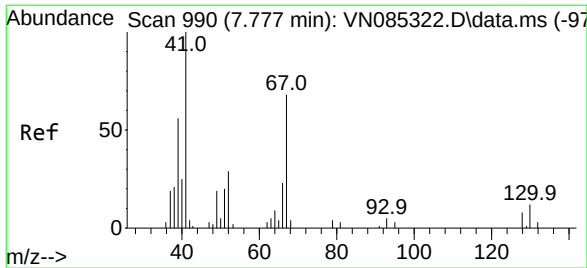
Tgt Ion: 78 Resp: 146952

Ion Ratio Lower Upper

78 100

77 23.4 19.0 28.4





#41

Methacrylonitrile

Concen: 18.484 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 41 Resp: 26082

Ion Ratio Lower Upper

41 100

39 57.2 45.8 68.8

67 74.2 57.1 85.7

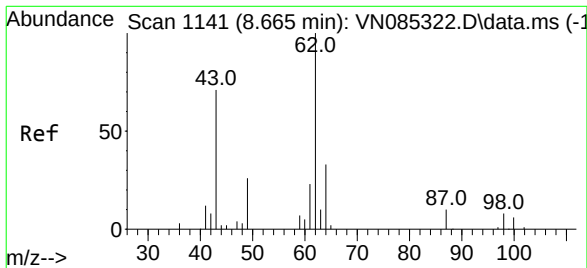
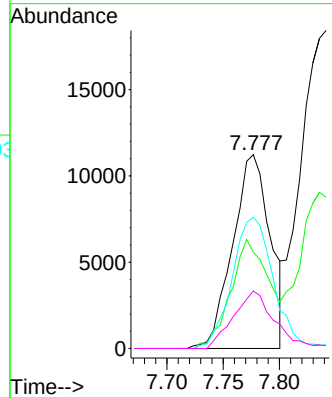
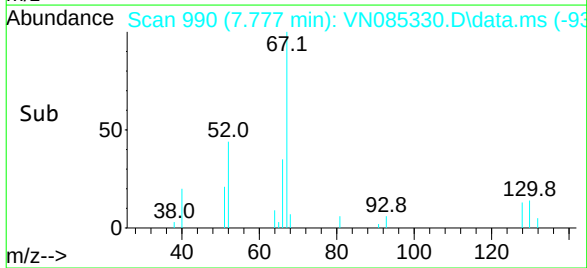
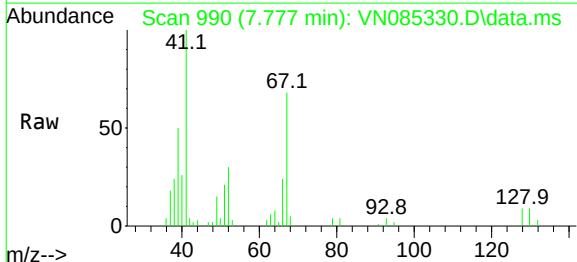
52 32.4 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#42

1,2-Dichloroethane

Concen: 17.267 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. 0.000 min

Lab File: VN085330.D

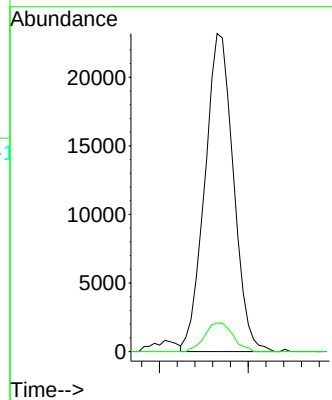
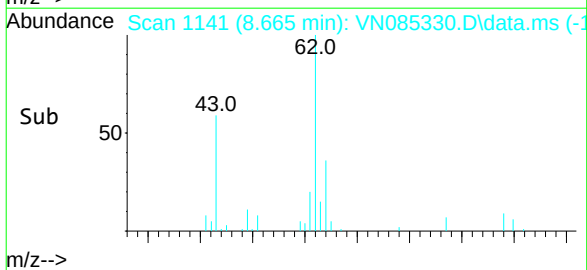
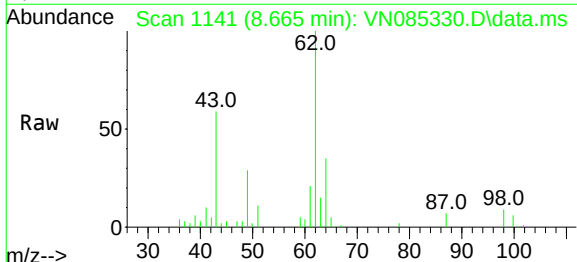
Acq: 27 Dec 2024 16:57

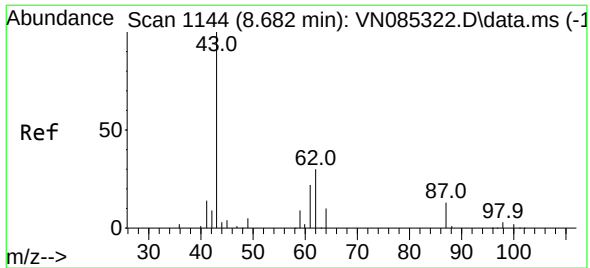
Tgt Ion: 62 Resp: 51885

Ion Ratio Lower Upper

62 100

98 8.9 0.0 17.6





#43

Isopropyl Acetate

Concen: 18.499 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 43 Resp: 83925

Ion Ratio Lower Upper

43 100

61 25.1 20.8 31.2

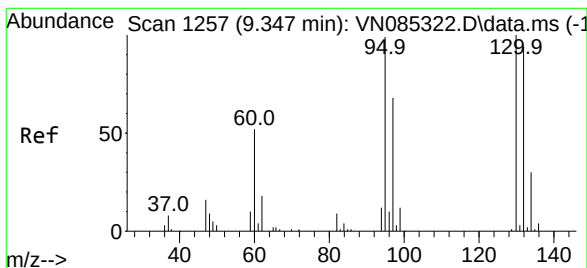
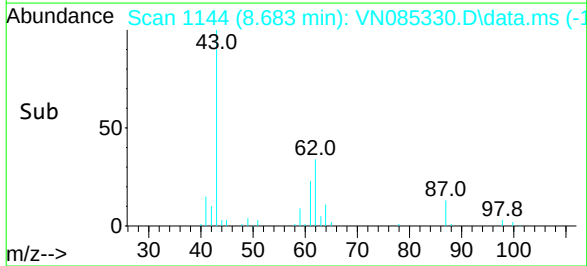
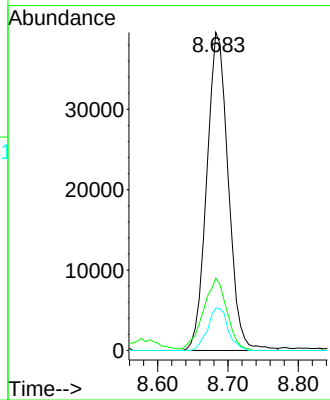
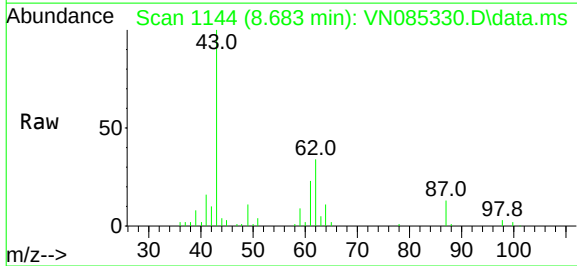
87 12.7 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#44

Trichloroethene

Concen: 16.790 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085330.D

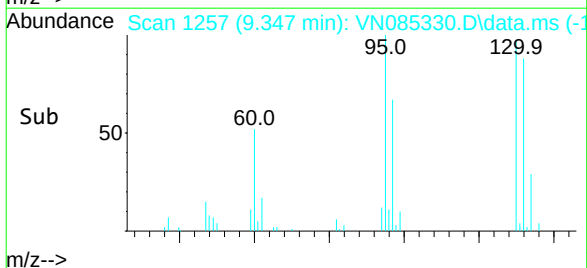
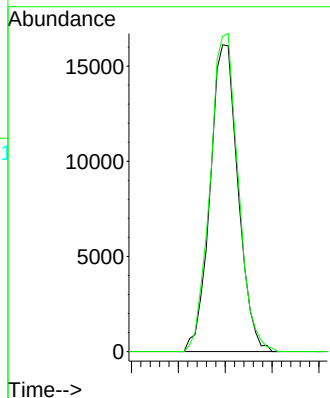
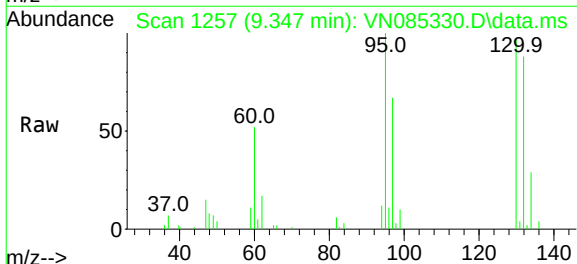
Acq: 27 Dec 2024 16:57

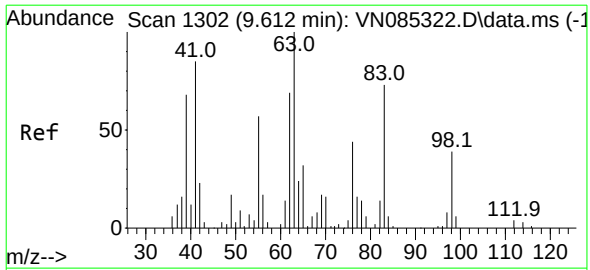
Tgt Ion:130 Resp: 33316

Ion Ratio Lower Upper

130 100

95 102.8 0.0 197.8





#45

1,2-Dichloropropane

Concen: 17.646 ug/l

RT: 9.618 min Scan# 1302

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 63 Resp: 37543

Ion Ratio Lower Upper

63 100

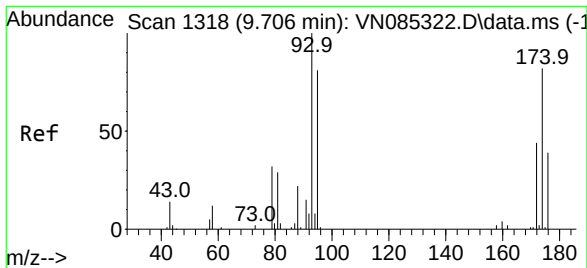
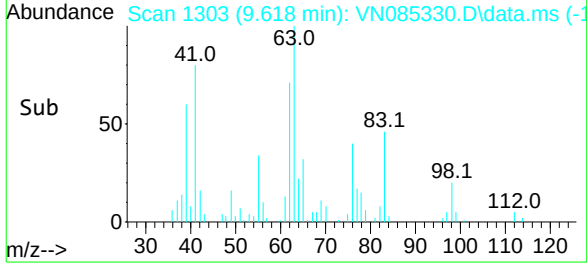
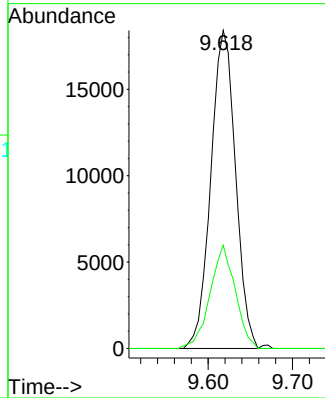
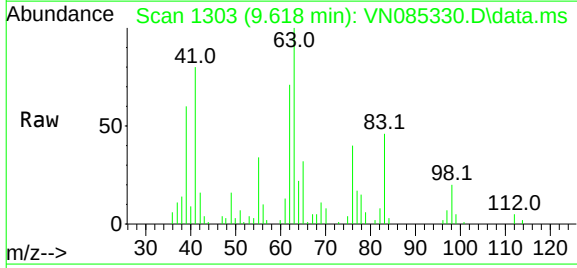
65 32.5 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#46

Dibromomethane

Concen: 17.895 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

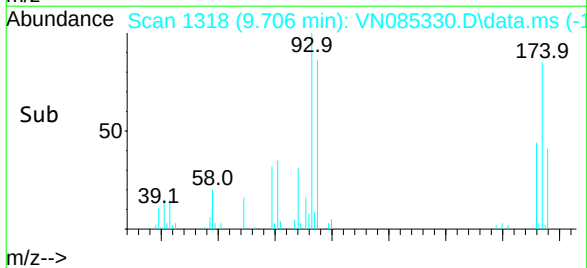
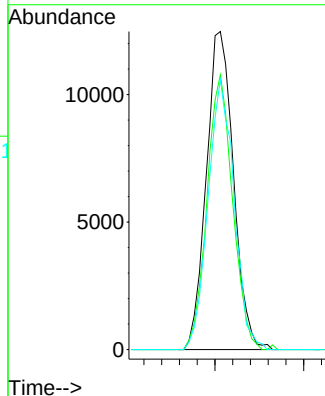
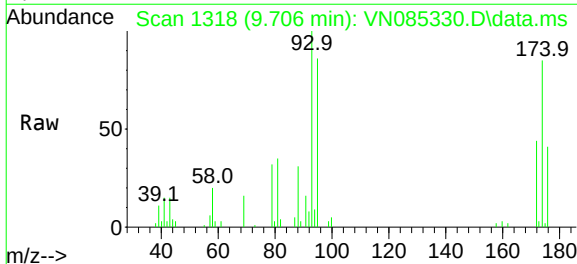
Tgt Ion: 93 Resp: 26479

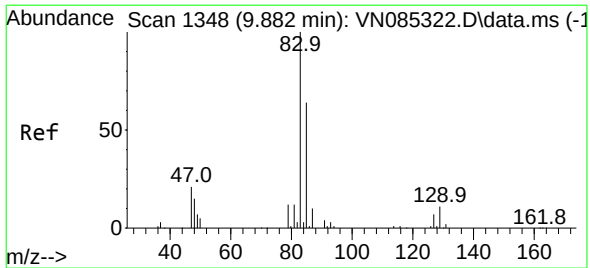
Ion Ratio Lower Upper

93 100

95 81.6 65.3 97.9

174 81.4 66.4 99.6





#47

Bromodichloromethane

Concen: 17.565 ug/l

RT: 9.883 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

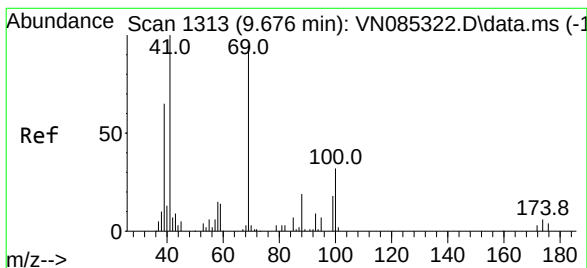
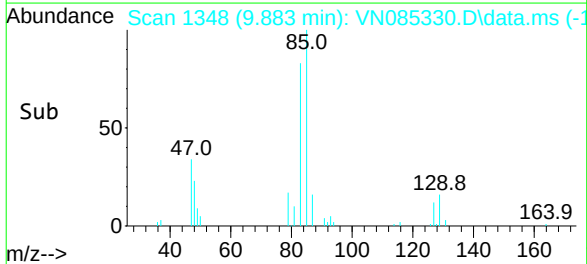
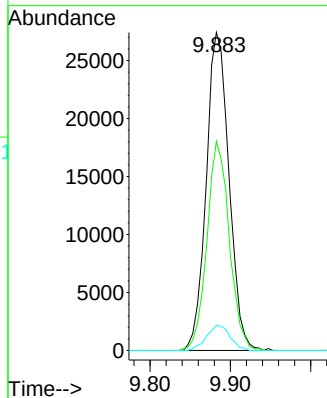
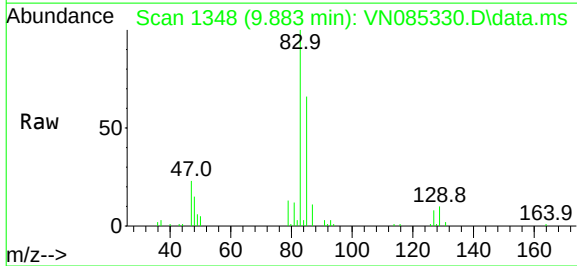
Tgt Ion:	83	Resp:	54021
Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.0	76.4
127	7.9	5.8	8.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#48

Methyl methacrylate

Concen: 19.497 ug/l

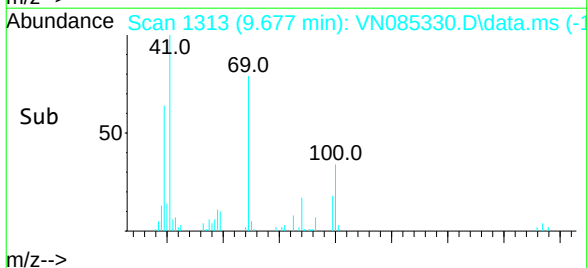
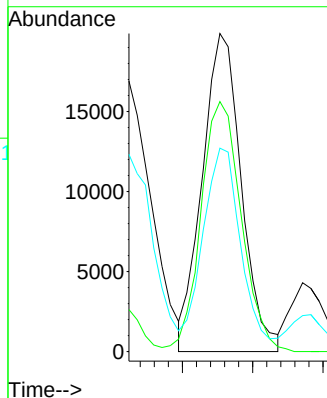
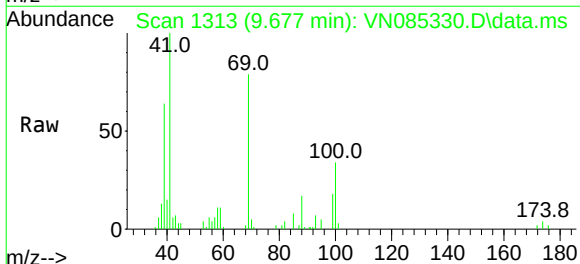
RT: 9.677 min Scan# 1313

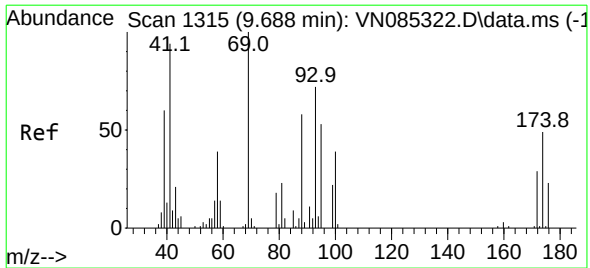
Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Tgt Ion:	41	Resp:	38382
Ion	Ratio	Lower	Upper
41	100		
69	81.1	67.7	101.5
39	62.2	51.2	76.8





#49

1,4-Dioxane

Concen: 446.267 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 88 Resp: 13255

Ion Ratio Lower Upper

88 100

43 29.2 22.1 33.1

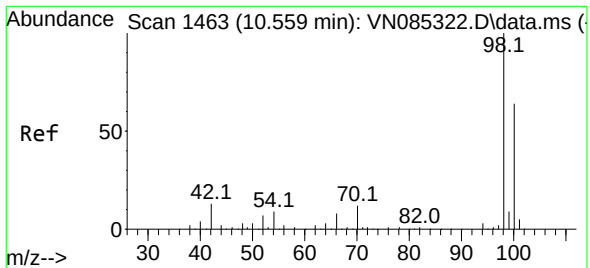
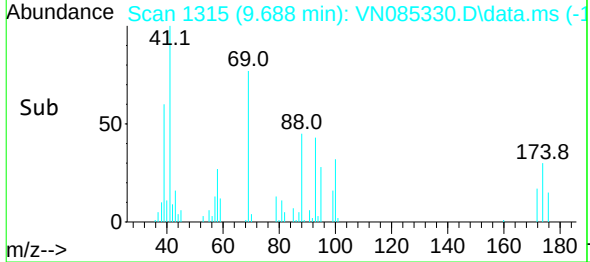
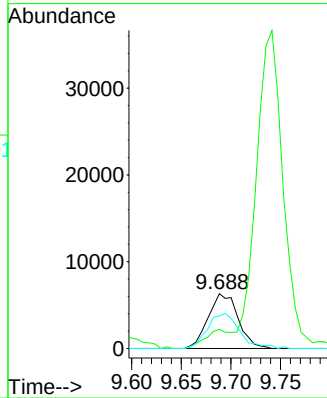
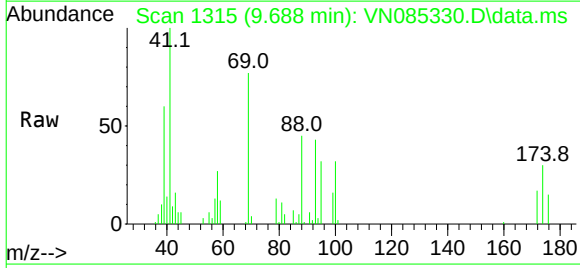
58 68.8 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#50

Toluene-d8

Concen: 50.625 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085330.D

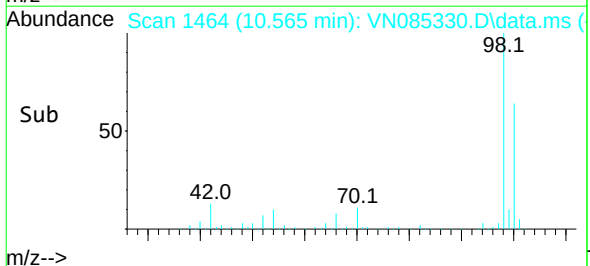
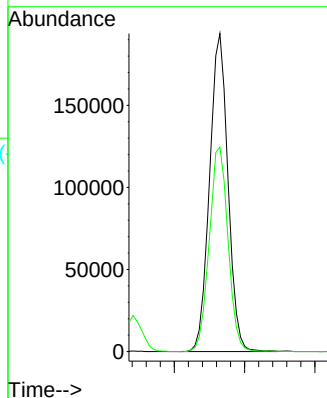
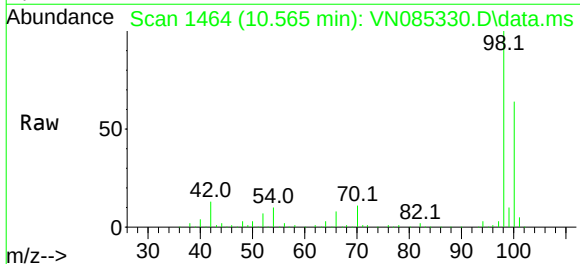
Acq: 27 Dec 2024 16:57

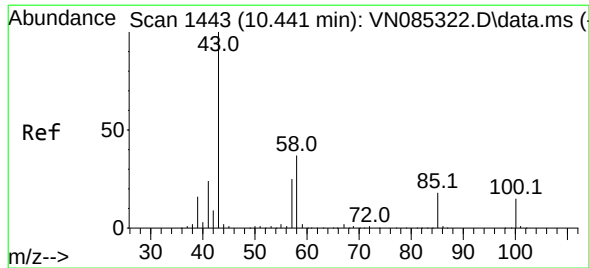
Tgt Ion: 98 Resp: 351721

Ion Ratio Lower Upper

98 100

100 65.7 51.5 77.3





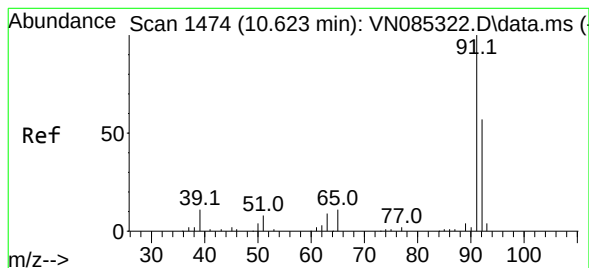
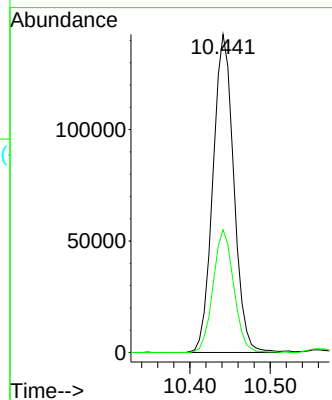
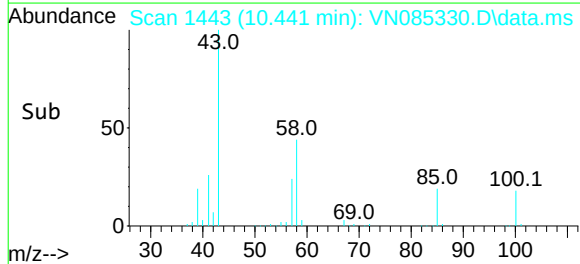
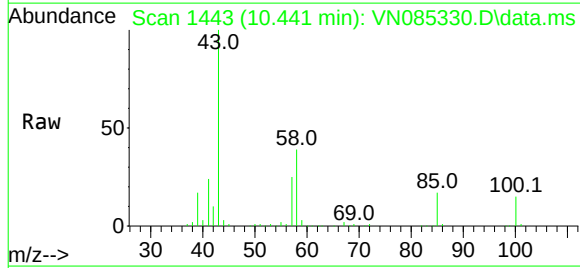
#51
4-Methyl-2-Pentanone
Concen: 100.886 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion: 43 Resp: 257213
Ion Ratio Lower Upper
43 100
58 38.2 30.3 45.5

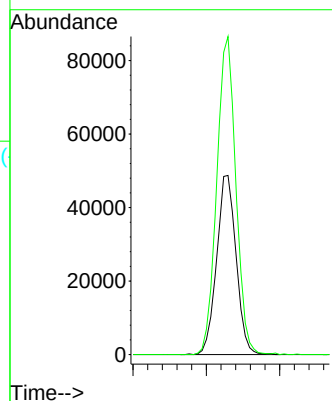
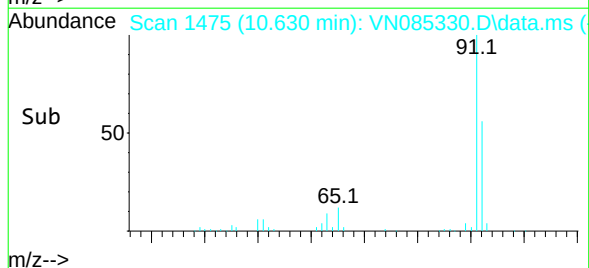
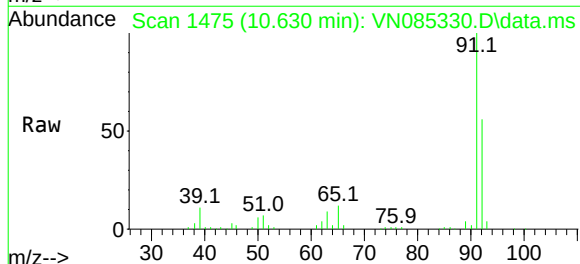
Manual Integrations
APPROVED

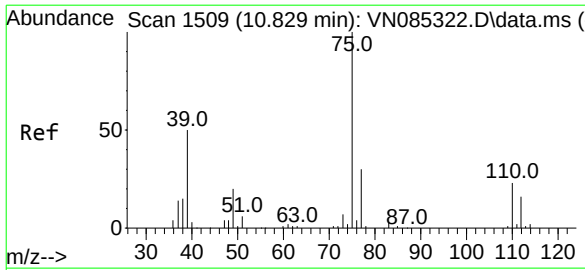
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#52
Toluene
Concen: 17.996 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

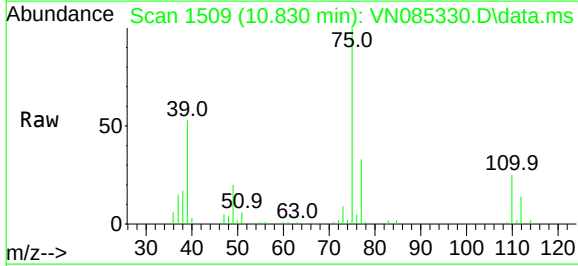
Tgt Ion: 92 Resp: 89808
Ion Ratio Lower Upper
92 100
91 174.5 140.2 210.4





#53
t-1,3-Dichloropropene
Concen: 17.777 ug/l
RT: 10.830 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

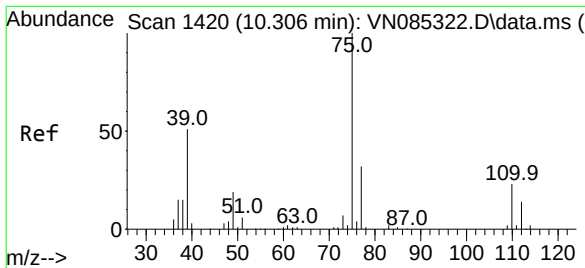
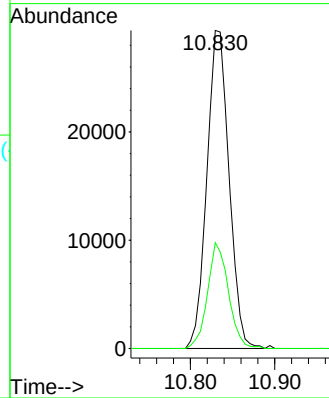
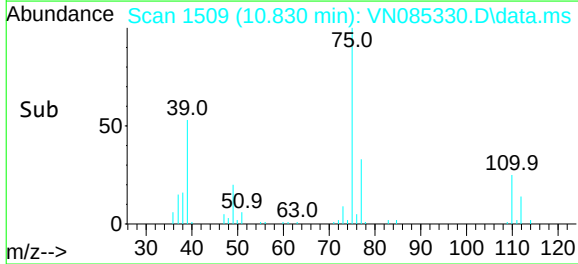
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01



Tgt Ion: 75 Resp: 53764
Ion Ratio Lower Upper
75 100
77 33.2 23.8 35.6

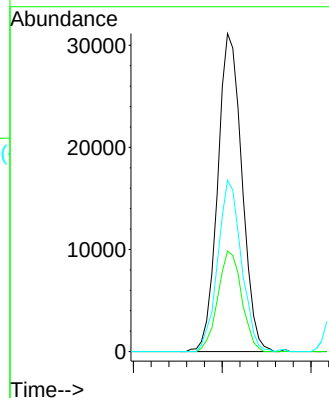
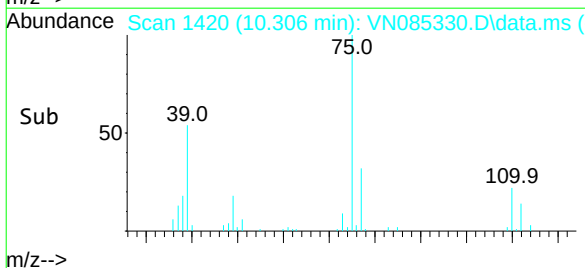
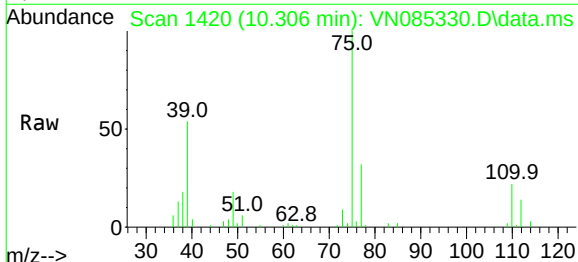
Manual Integrations
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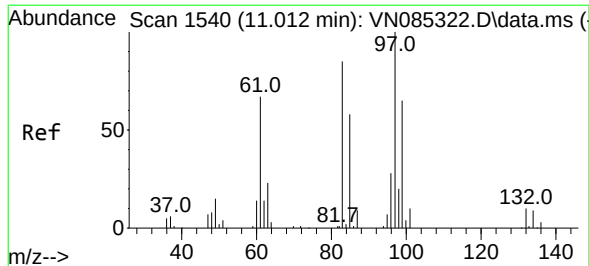
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#54
cis-1,3-Dichloropropene
Concen: 18.049 ug/l
RT: 10.306 min Scan# 1420
Delta R.T. 0.000 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Tgt Ion: 75 Resp: 59027
Ion Ratio Lower Upper
75 100
77 31.6 25.5 38.3
39 53.9 40.5 60.7





#55

1,1,2-Trichloroethane

Concen: 18.402 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 97 Resp: 34671

Ion Ratio Lower Upper

97 100

83 83.2 67.7 101.5

85 50.3 46.2 69.4

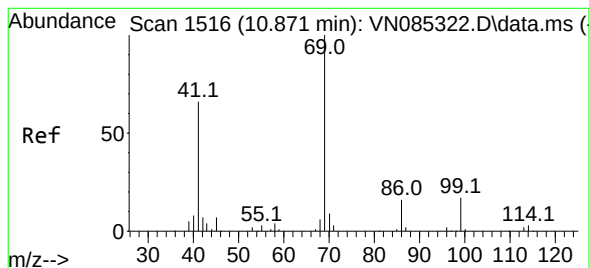
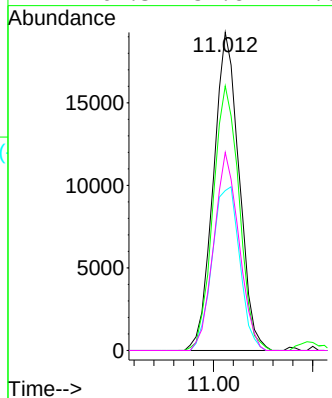
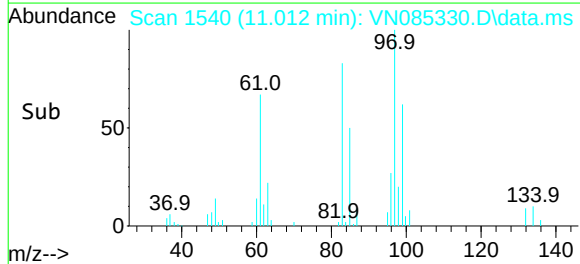
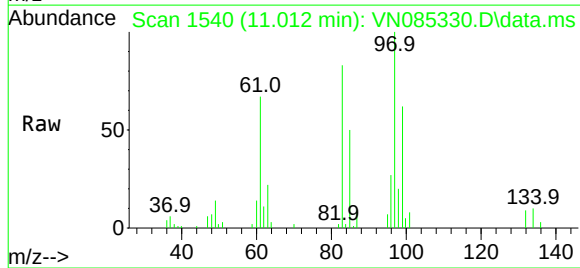
99 62.3 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#56

Ethyl methacrylate

Concen: 19.165 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

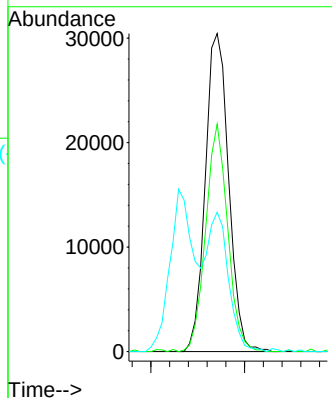
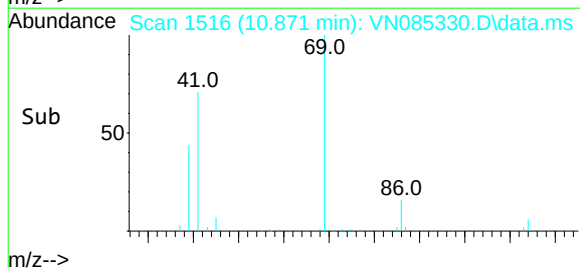
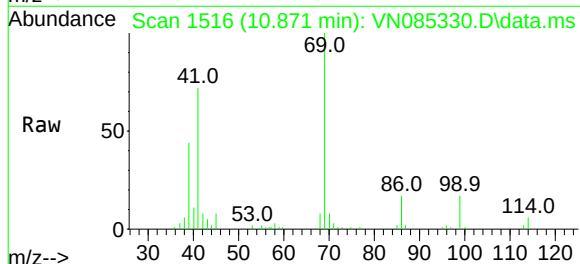
Tgt Ion: 69 Resp: 52590

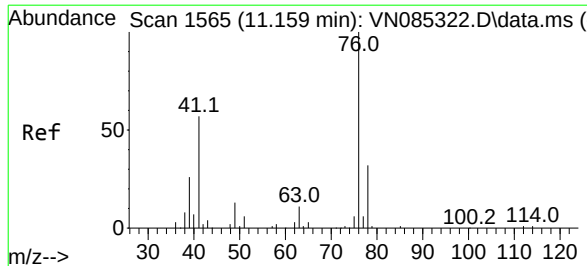
Ion Ratio Lower Upper

69 100

41 67.8 54.3 81.5

39 40.7 32.0 48.0





#57

1,3-Dichloropropane

Concen: 18.308 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 76 Resp: 60541

Ion Ratio Lower Upper

76 100

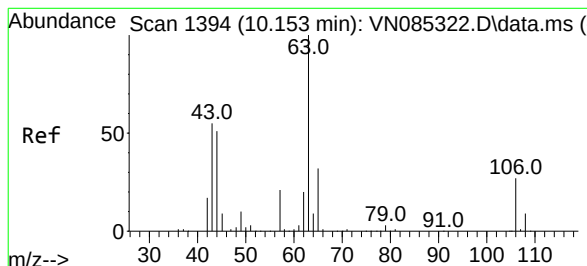
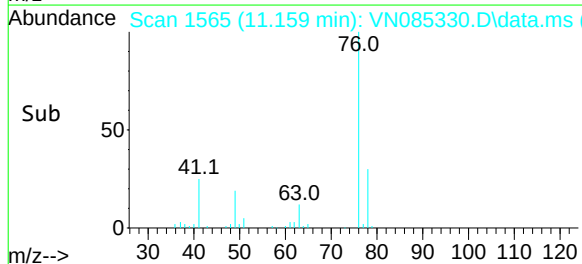
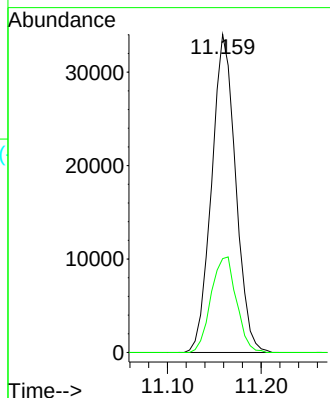
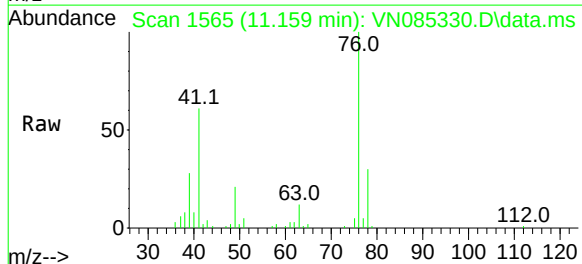
78 31.8 25.5 38.3

Manual Integrations

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Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#58

2-Chloroethyl Vinyl ether

Concen: 101.065 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VN085330.D

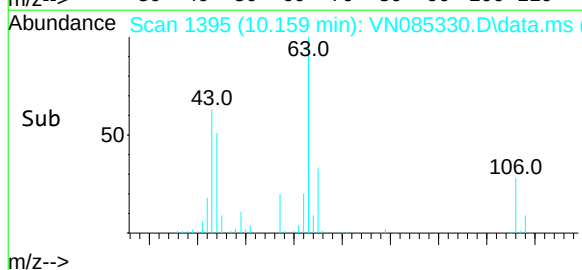
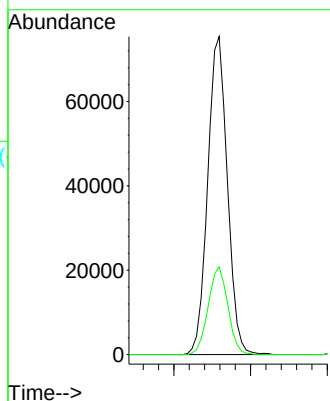
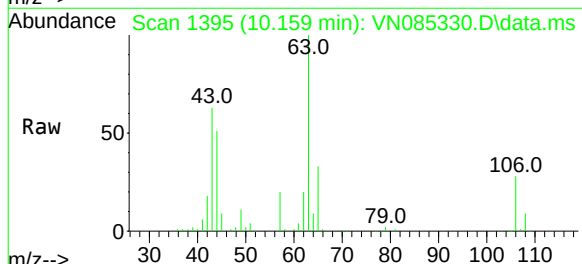
Acq: 27 Dec 2024 16:57

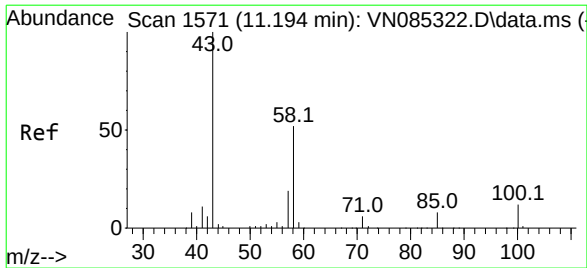
Tgt Ion: 63 Resp: 134176

Ion Ratio Lower Upper

63 100

106 27.6 22.1 33.1





#59

2-Hexanone

Concen: 103.517 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 43 Resp: 183110

Ion Ratio Lower Upper

43 100

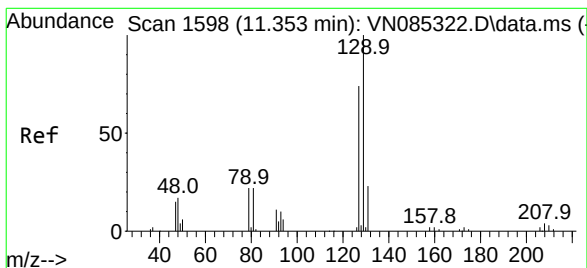
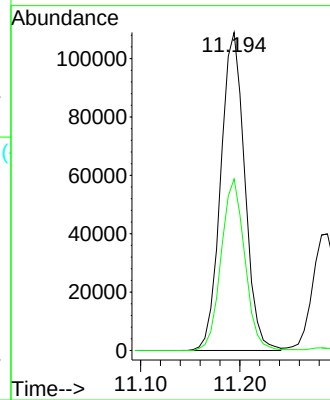
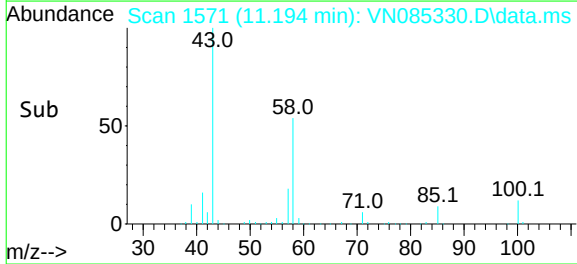
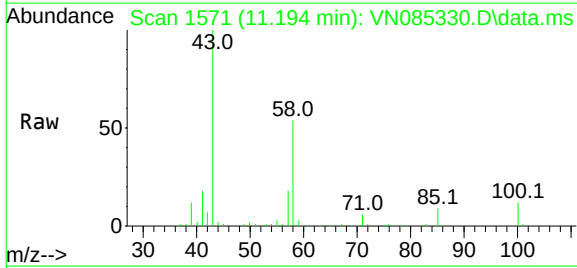
58 53.1 26.5 79.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#60

Dibromochloromethane

Concen: 18.067 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.006 min

Lab File: VN085330.D

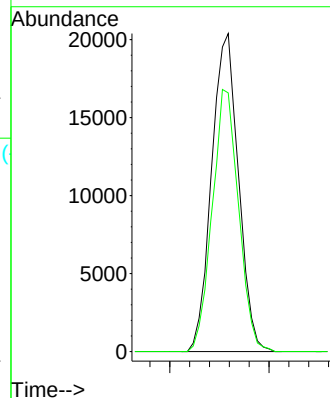
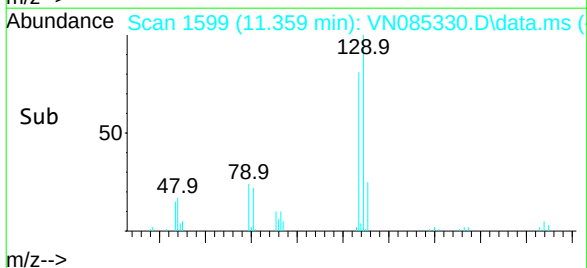
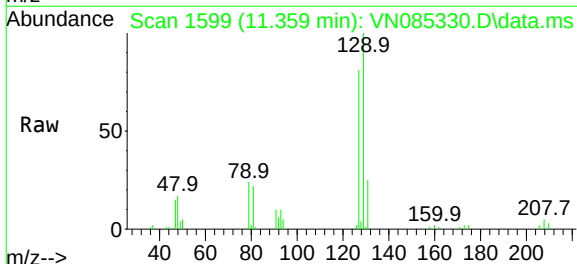
Acq: 27 Dec 2024 16:57

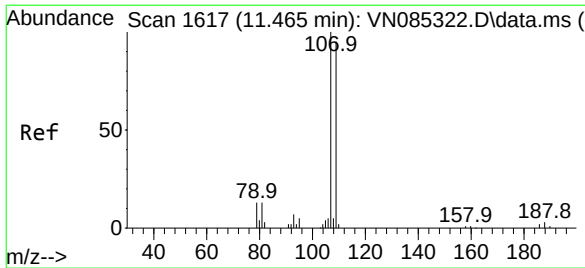
Tgt Ion:129 Resp: 38342

Ion Ratio Lower Upper

129 100

127 80.8 38.3 114.9





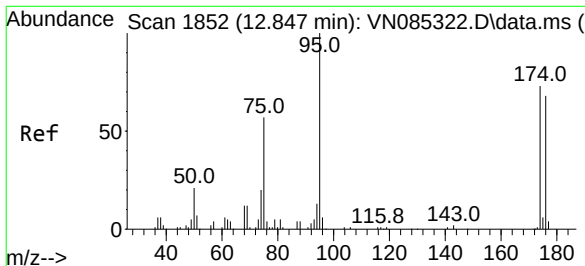
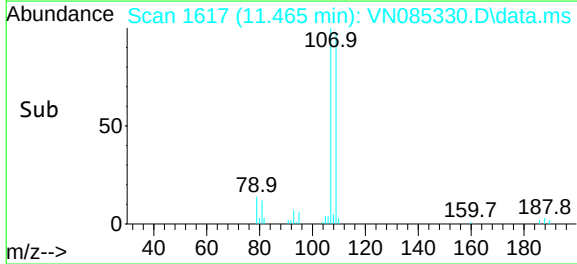
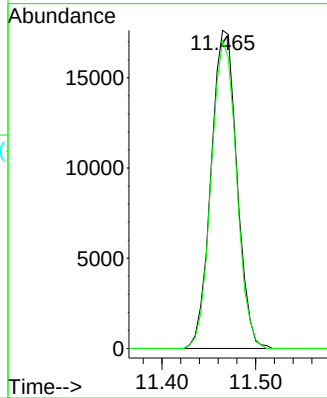
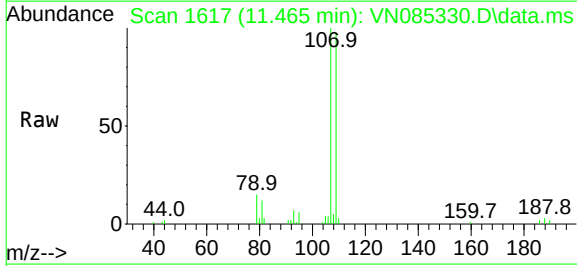
#61
1,2-Dibromoethane
Concen: 18.152 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01

Tgt Ion: 107 Resp: 33837
Ion Ratio Lower Upper
107 100
109 94.8 74.9 112.3

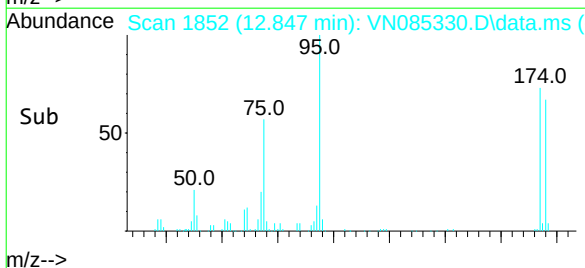
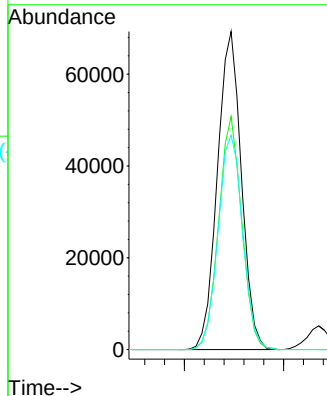
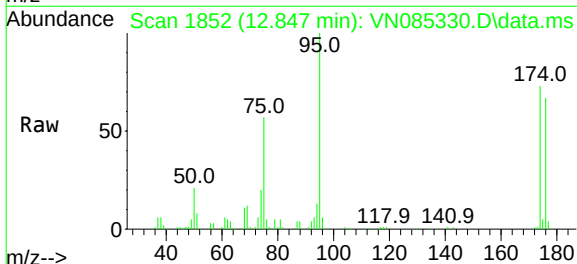
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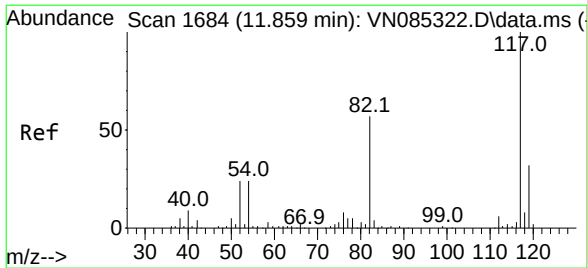
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#62
4-Bromofluorobenzene
Concen: 50.489 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Tgt Ion: 95 Resp: 116494
Ion Ratio Lower Upper
95 100
174 70.7 0.0 143.2
176 68.6 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1684

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion:117 Resp: 253770

Ion Ratio Lower Upper

117 100

82 56.7 45.7 68.5

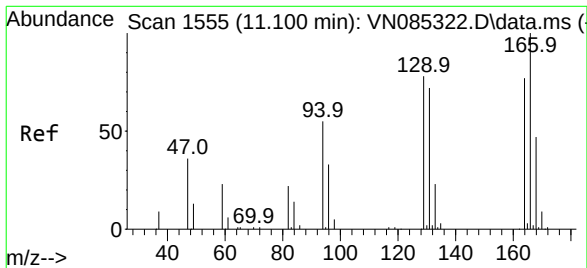
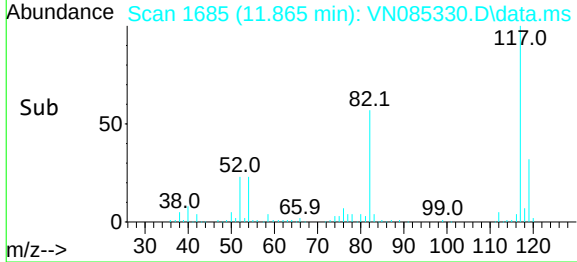
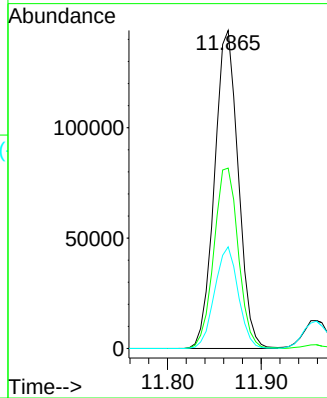
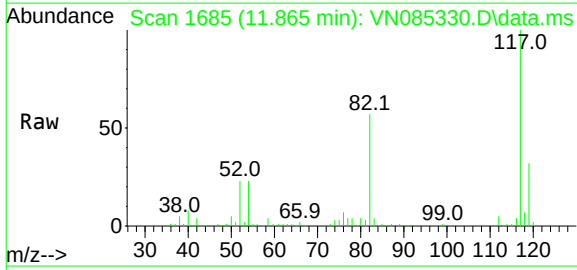
119 32.0 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#64

Tetrachloroethene

Concen: 18.045 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Tgt Ion:164 Resp: 29016

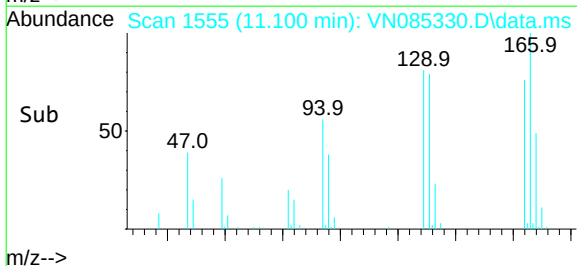
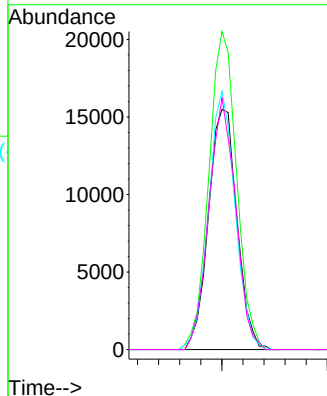
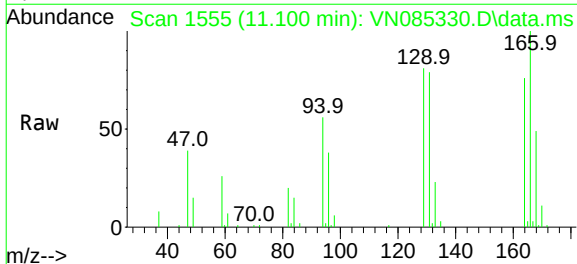
Ion Ratio Lower Upper

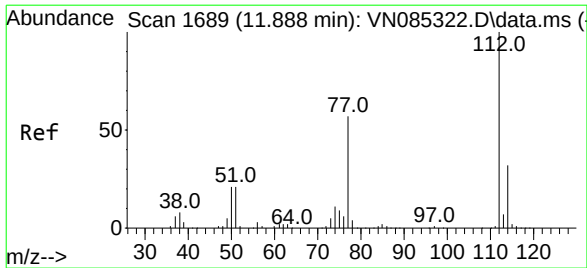
164 100

166 132.4 104.0 156.0

129 107.5 81.3 121.9

131 104.7 75.0 112.6





#65

Chlorobenzene

Concen: 17.719 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion:112 Resp: 97170

Ion Ratio Lower Upper

112 100

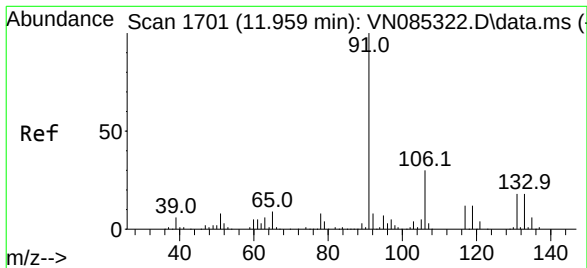
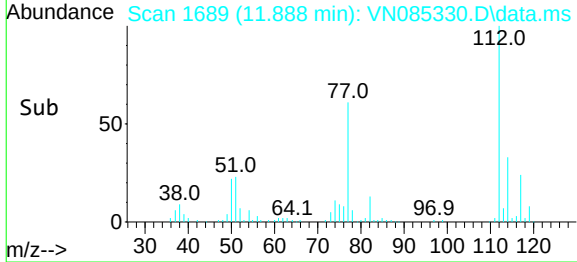
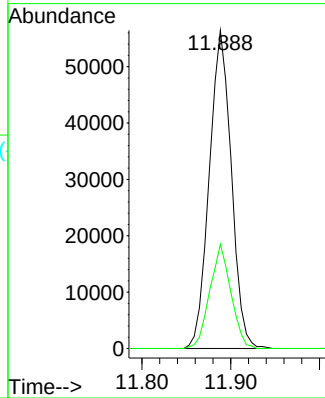
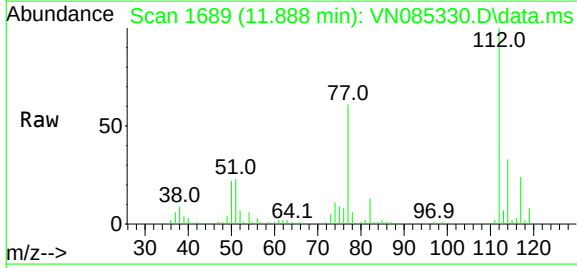
114 32.8 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 18.146 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

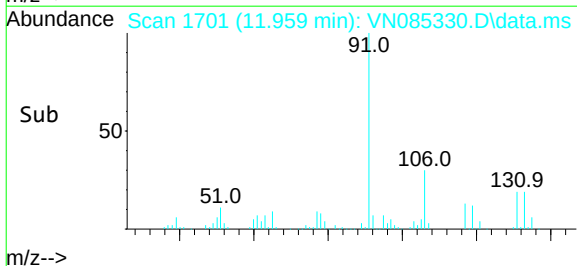
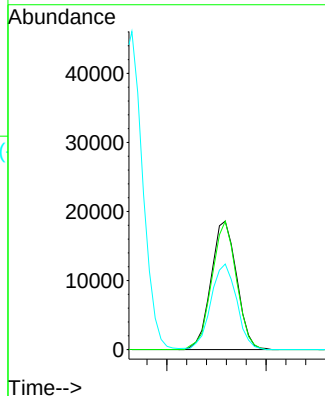
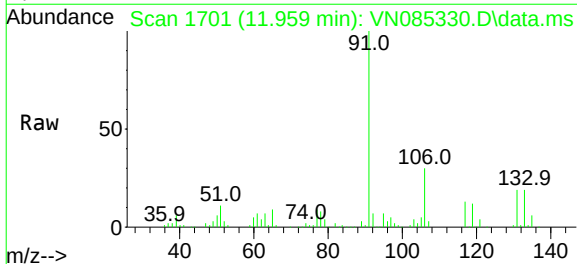
Tgt Ion:131 Resp: 33399

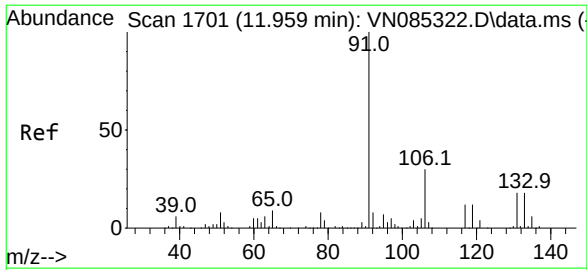
Ion Ratio Lower Upper

131 100

133 95.7 48.3 144.9

119 67.1 33.4 100.1





#67

Ethyl Benzene

Concen: 18.324 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 91 Resp: 167113

Ion Ratio Lower Upper

91 100

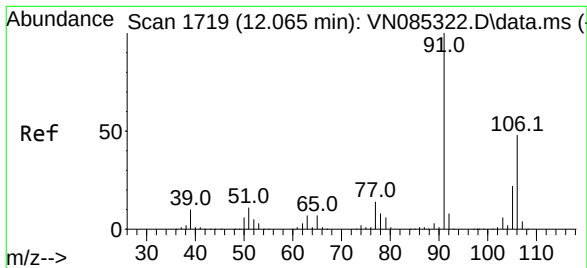
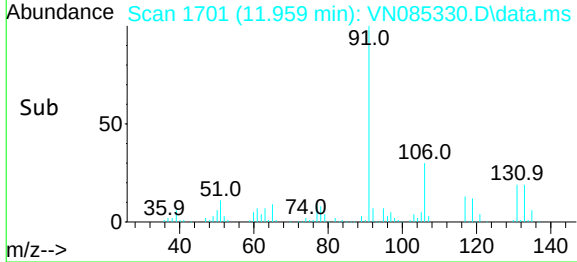
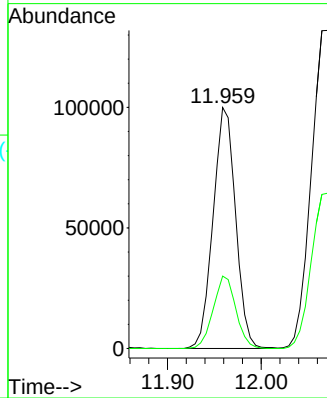
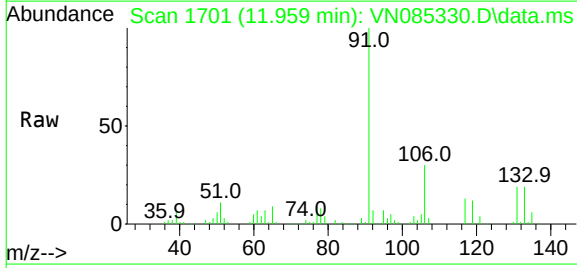
106 30.0 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#68

m/p-Xylenes

Concen: 38.314 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085330.D

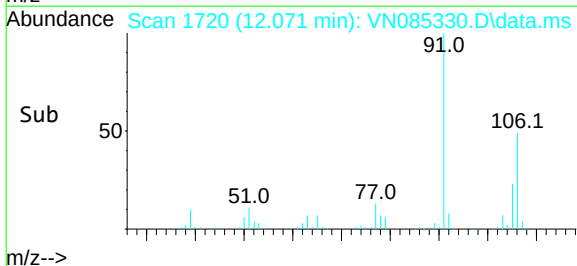
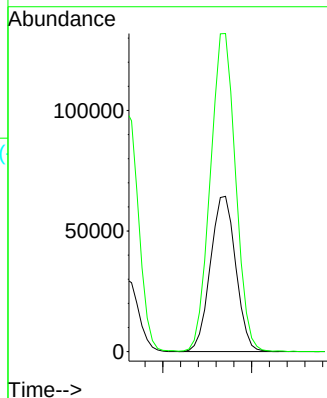
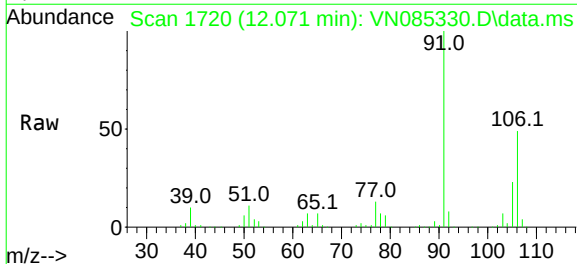
Acq: 27 Dec 2024 16:57

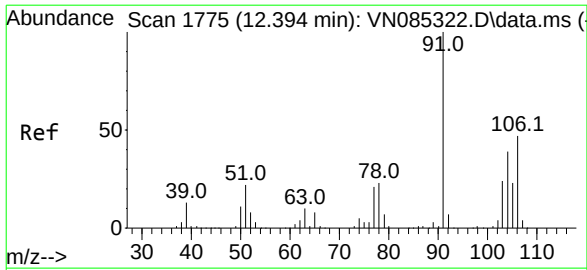
Tgt Ion:106 Resp: 127874

Ion Ratio Lower Upper

106 100

91 204.2 165.2 247.8





#69

o-Xylene

Concen: 18.187 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion:106 Resp: 58720

Ion Ratio Lower Upper

106 100

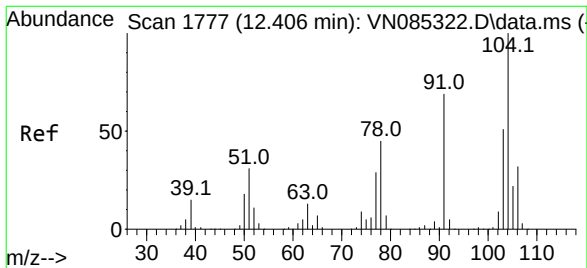
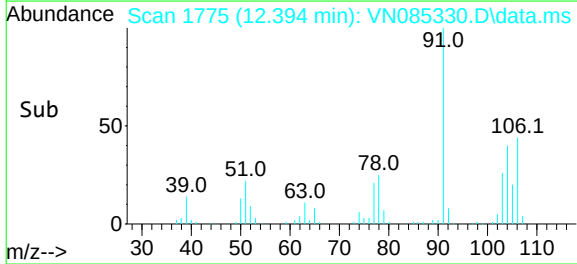
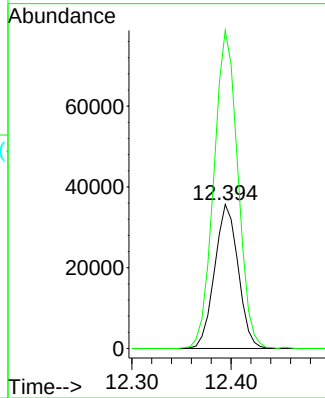
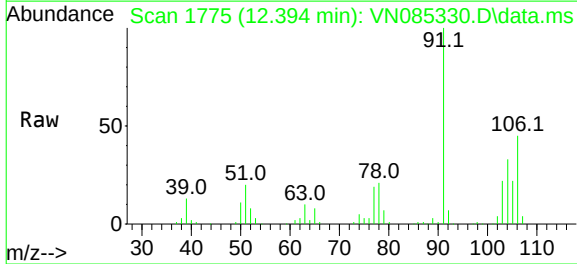
91 225.3 107.3 321.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#70

Styrene

Concen: 19.120 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

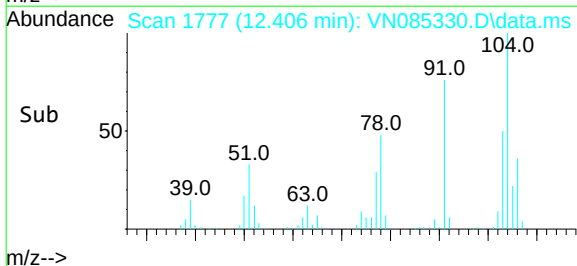
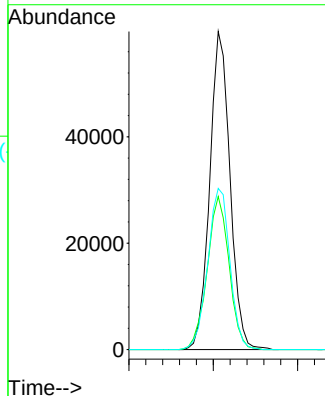
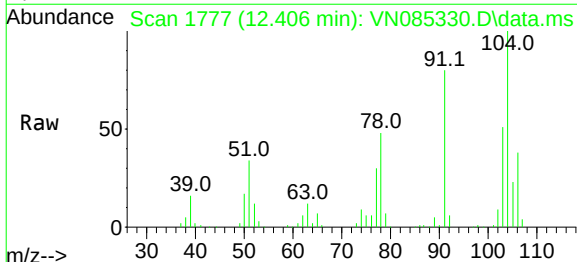
Tgt Ion:104 Resp: 100048

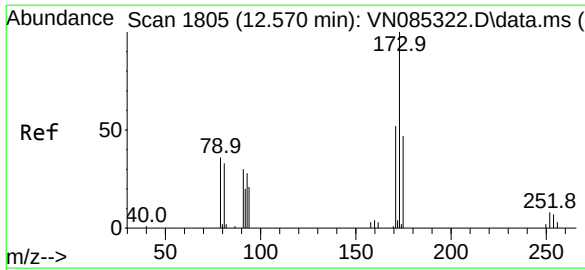
Ion Ratio Lower Upper

104 100

78 51.7 40.7 61.1

103 55.3 44.1 66.1





#71

Bromoform

Concen: 18.853 ug/l

RT: 12.571 min Scan# 1805

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

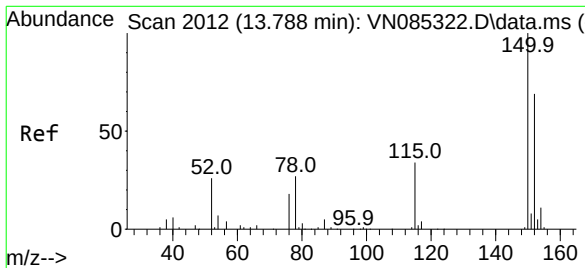
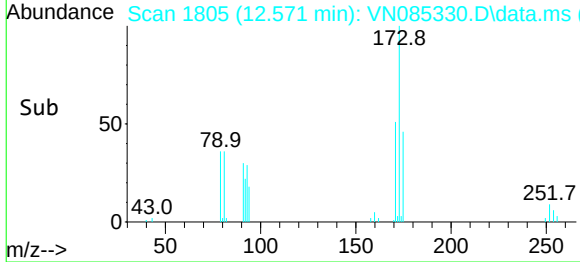
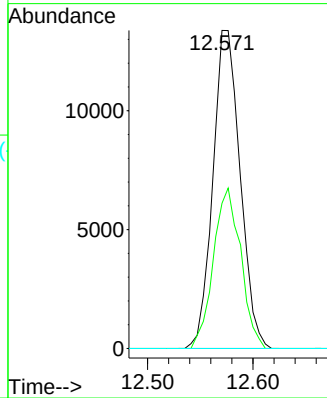
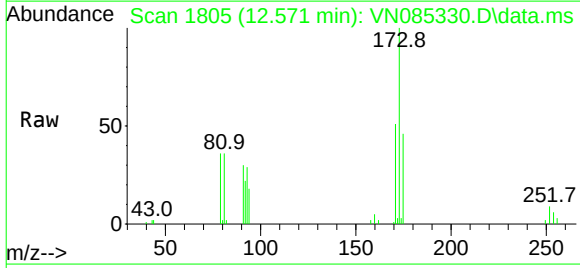
ClientSampleId :

VN1227WBS01

Tgt Ion:	173	Resp:	24033
Ion Ratio	Lower	Upper	
173	100		
175	50.6	24.4	73.4
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

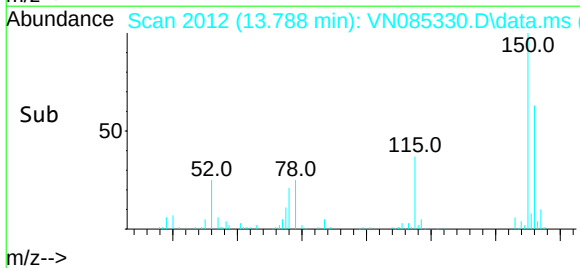
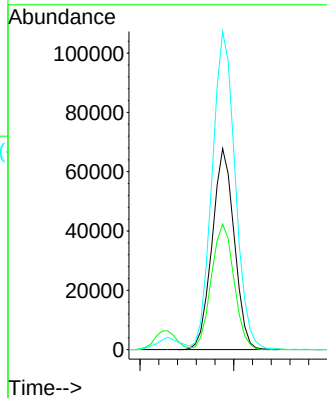
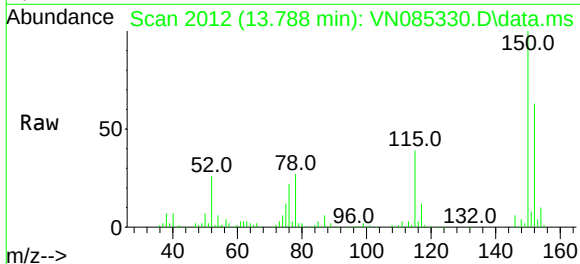
RT: 13.788 min Scan# 2012

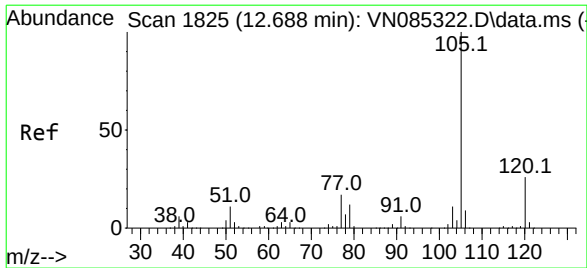
Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Tgt Ion:	152	Resp:	111138
Ion Ratio	Lower	Upper	
152	100		
115	64.1	30.4	91.3
150	165.3	0.0	345.0





#73

Isopropylbenzene

Concen: 18.757 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 105 Resp: 149902

Ion Ratio Lower Upper

105 100

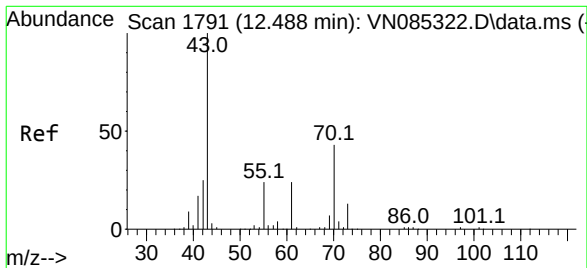
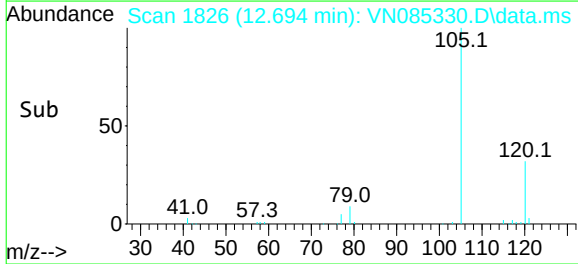
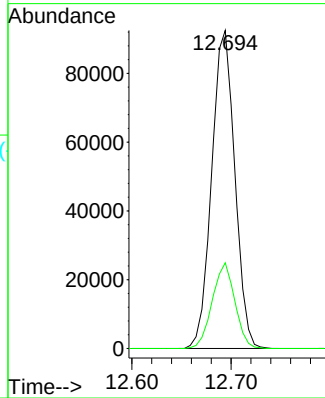
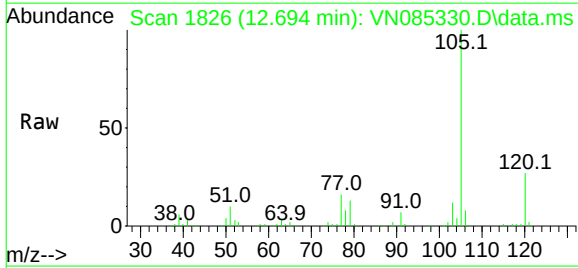
120 26.3 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#74

N-ethyl acetate

Concen: 20.419 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Tgt Ion: 43 Resp: 69851

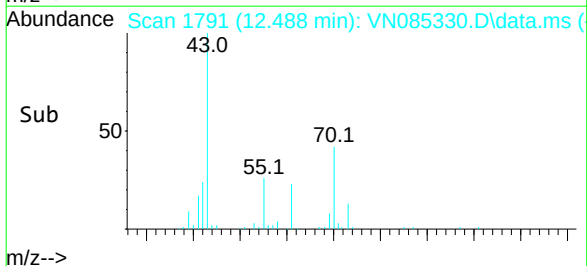
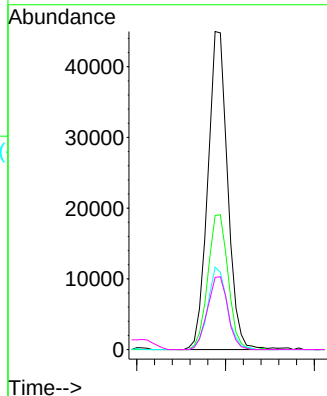
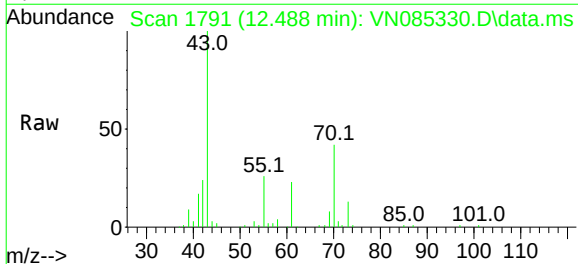
Ion Ratio Lower Upper

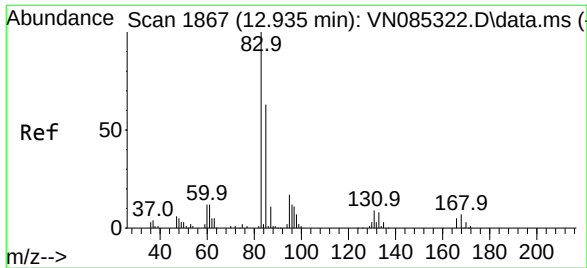
43 100

70 43.2 33.4 50.0

55 25.4 19.2 28.8

61 23.4 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.464 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

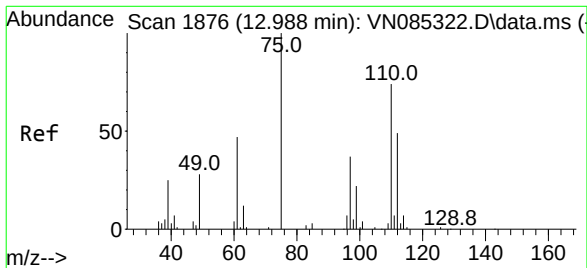
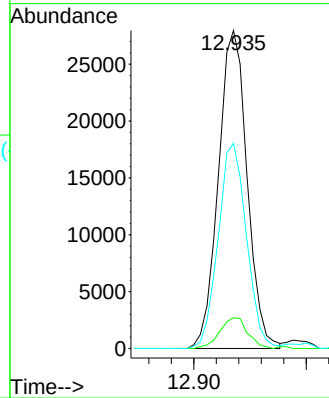
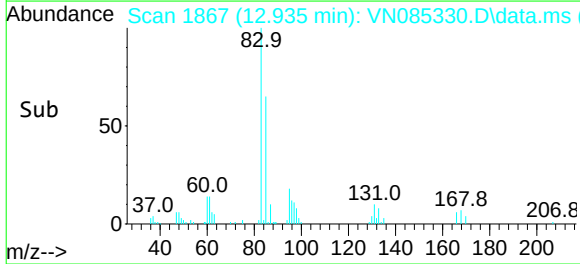
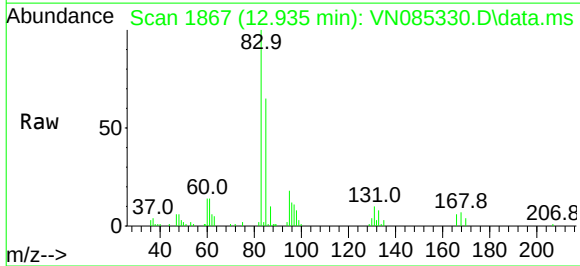
Tgt Ion:	83	Resp:	49543
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.8	14.4
85	63.6	32.6	98.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#76

1,2,3-Trichloropropane

Concen: 21.944 ug/l m

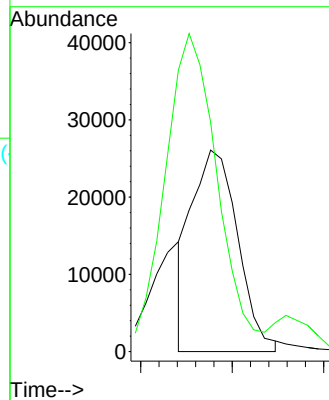
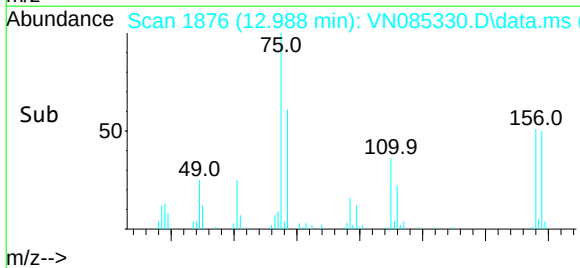
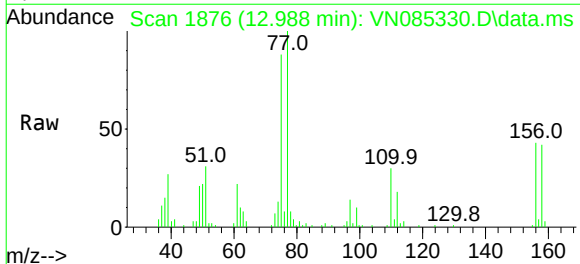
RT: 12.988 min Scan# 1876

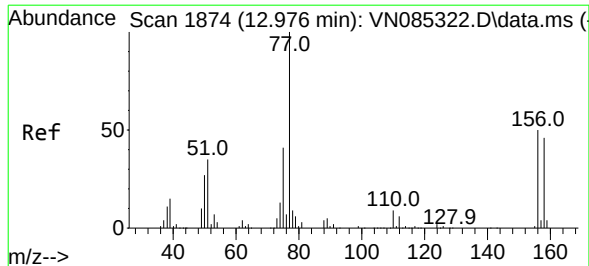
Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

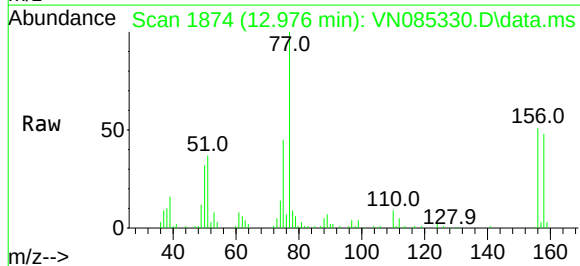
Tgt Ion:	75	Resp:	45541
Ion	Ratio	Lower	Upper
75	100		
77	180.7	98.1	294.3





#77
Bromobenzene
Concen: 17.746 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

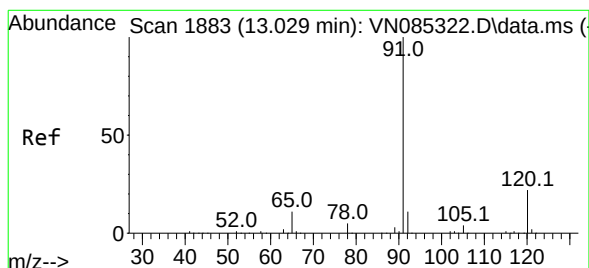
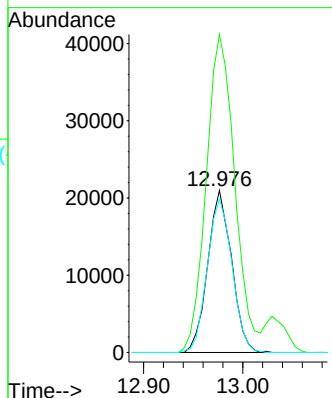
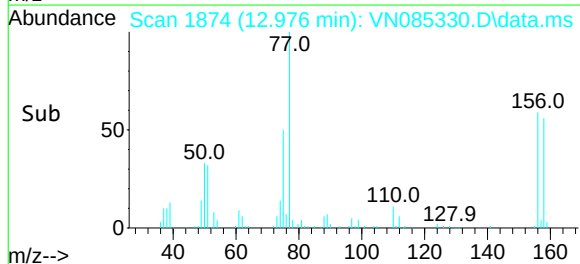
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01



Tgt Ion: 156 Resp: 35139
Ion Ratio Lower Upper
156 100
77 234.2 114.0 342.0
158 98.1 47.6 142.8

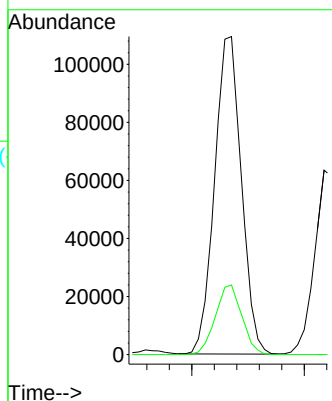
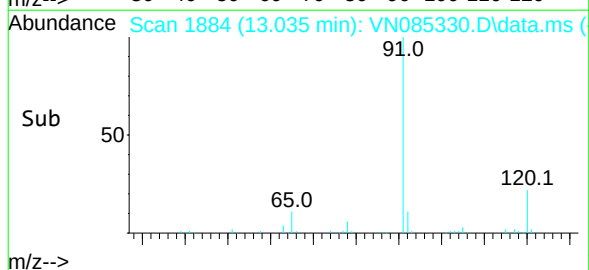
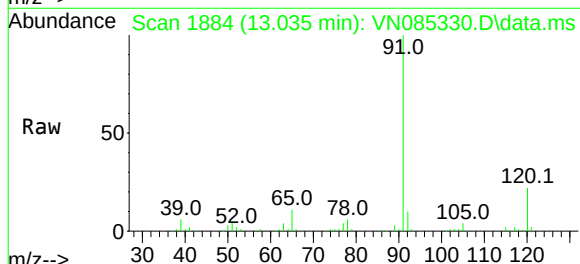
Manual Integrations
APPROVED

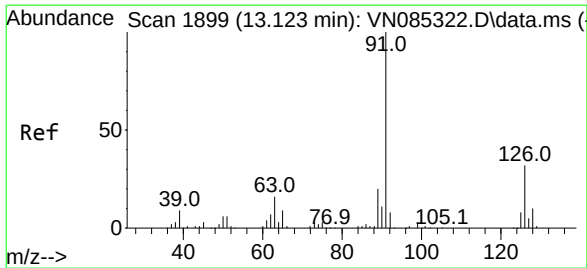
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#78
n-propylbenzene
Concen: 19.398 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Tgt Ion: 91 Resp: 180713
Ion Ratio Lower Upper
91 100
120 21.7 10.9 32.9





#79

2-Chlorotoluene

Concen: 18.744 ug/l

RT: 13.118 min Scan# 1899

Delta R.T. -0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 91 Resp: 109897

Ion Ratio Lower Upper

91 100

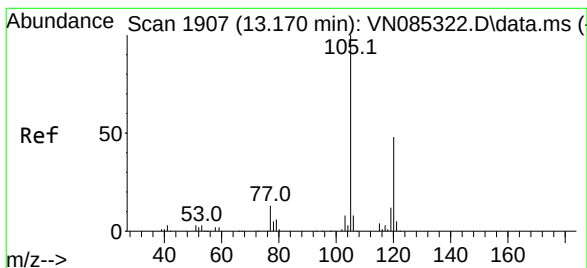
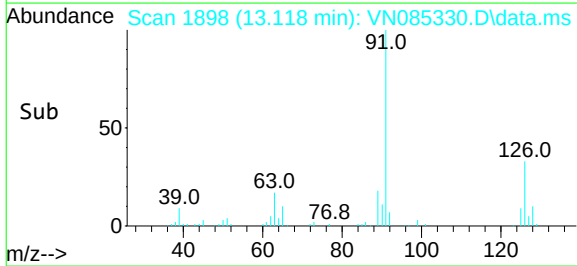
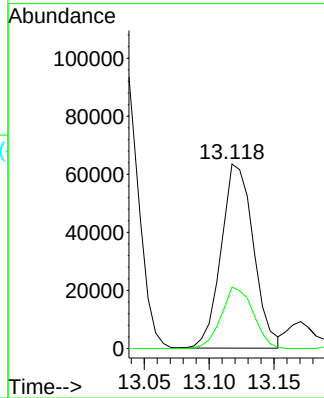
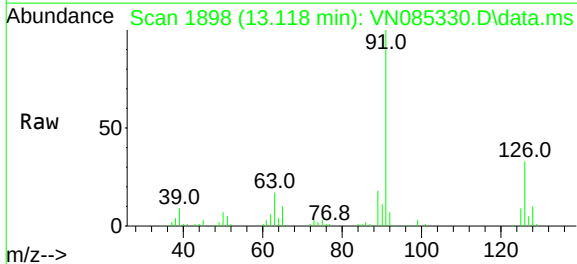
126 32.9 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#80

1,3,5-Trimethylbenzene

Concen: 19.444 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085330.D

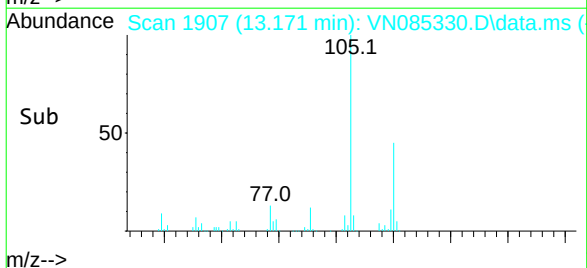
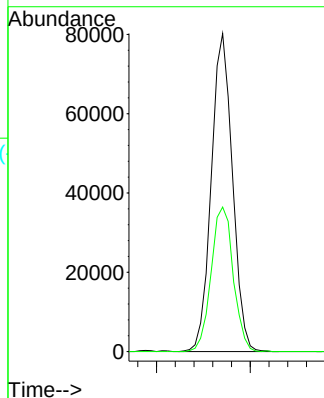
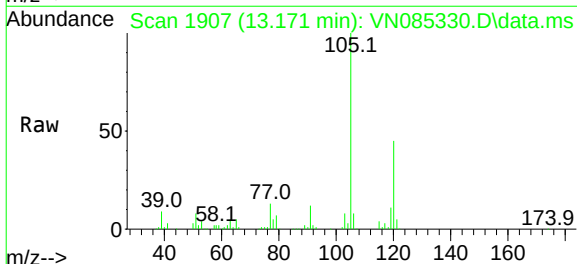
Acq: 27 Dec 2024 16:57

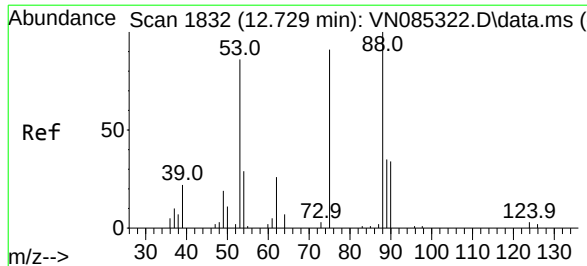
Tgt Ion:105 Resp: 125698

Ion Ratio Lower Upper

105 100

120 47.5 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 18.488 ug/l

RT: 12.735 min Scan# 1832

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

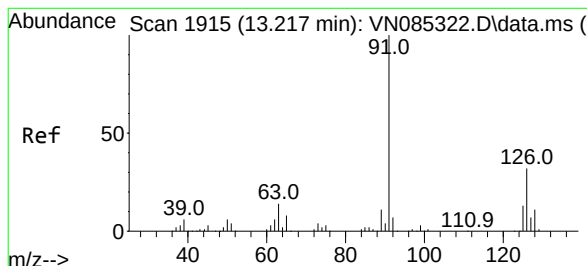
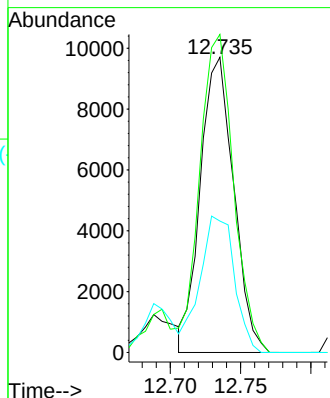
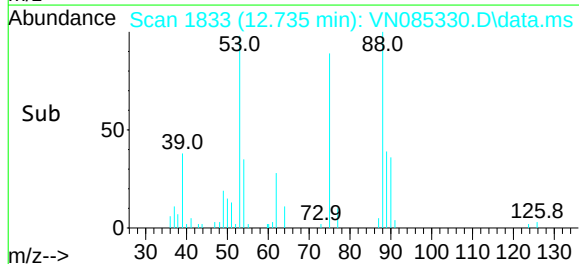
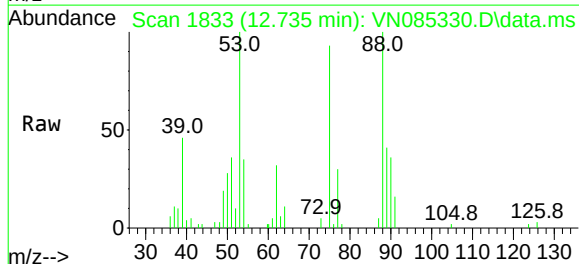
ClientSampleId :

VN1227WBS01

Tgt	Ion	75	Resp:	16022
Ion	Ratio	Lower	Upper	
75	100			
53	110.4	80.0	120.0	
89	47.8	35.8	53.8	

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#82

4-Chlorotoluene

Concen: 18.587 ug/l

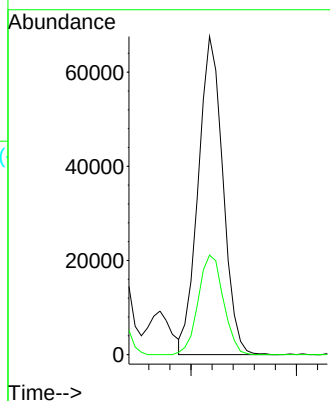
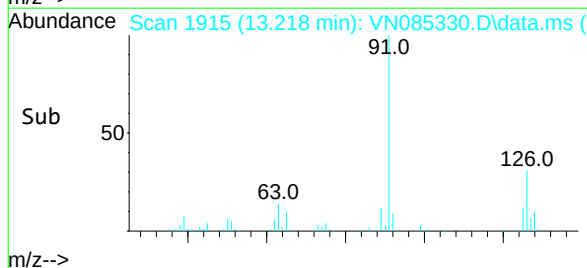
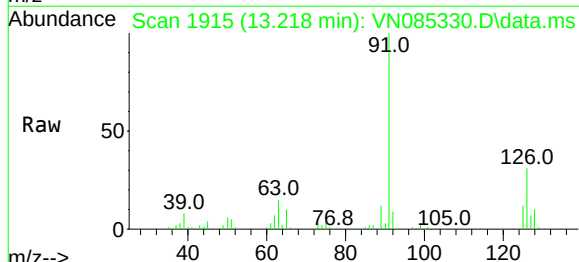
RT: 13.218 min Scan# 1915

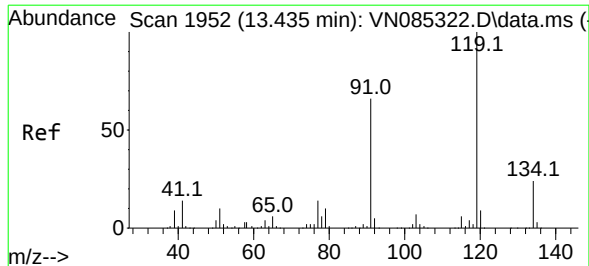
Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Tgt	Ion	91	Resp:	109755
Ion	Ratio	Lower	Upper	
91	100			
126	31.9	16.4	49.4	





#83

tert-Butylbenzene

Concen: 18.682 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion:119 Resp: 104613

Ion Ratio Lower Upper

119 100

91 70.4 33.6 100.8

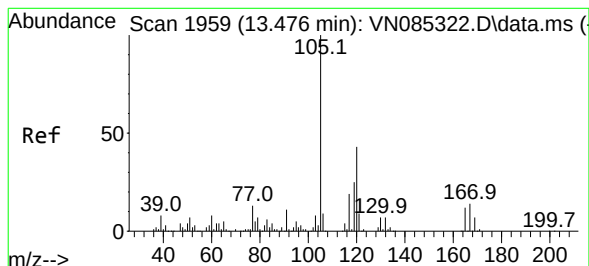
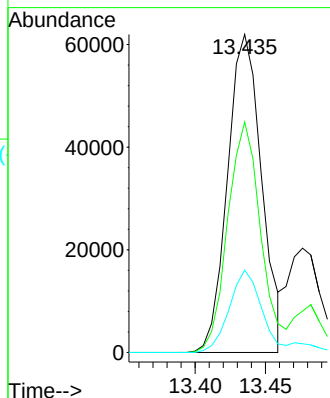
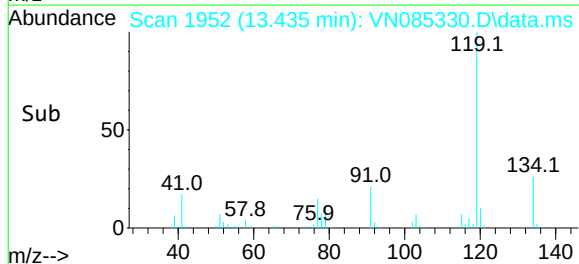
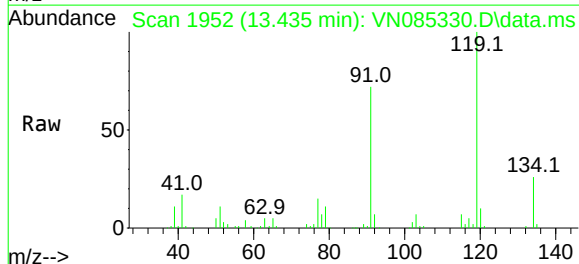
134 24.4 13.3 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#84

1,2,4-Trimethylbenzene

Concen: 19.659 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN085330.D

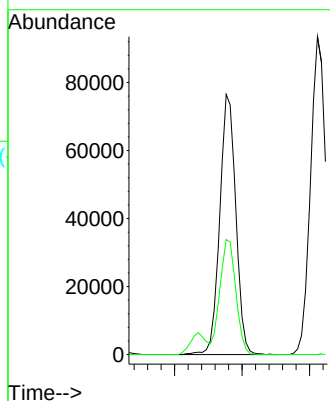
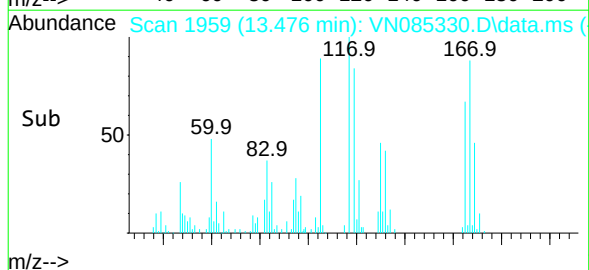
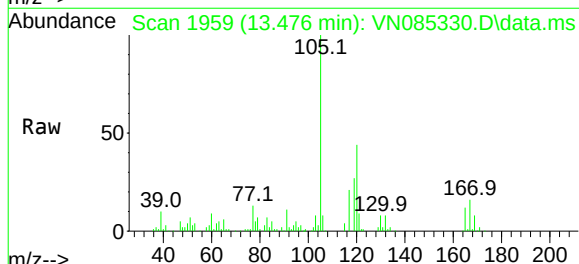
Acq: 27 Dec 2024 16:57

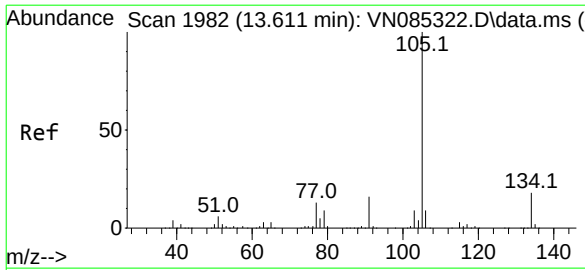
Tgt Ion:105 Resp: 126545

Ion Ratio Lower Upper

105 100

120 43.8 21.7 65.1





#85

sec-Butylbenzene

Concen: 19.266 ug/l

RT: 13.612 min Scan# 1982

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion:105 Resp: 149749

Ion Ratio Lower Upper

105 100

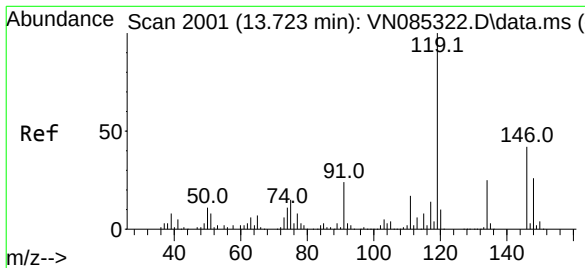
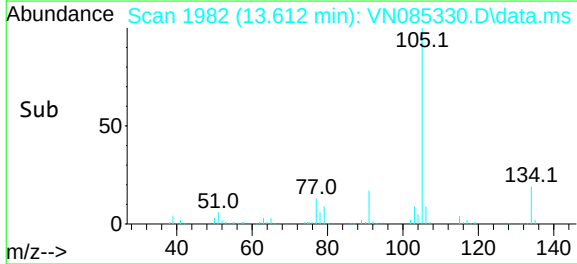
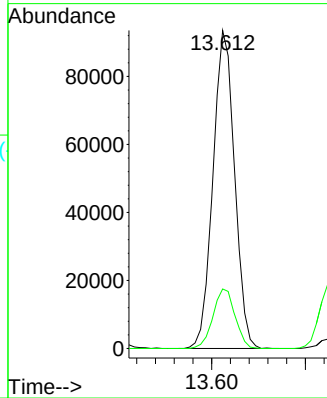
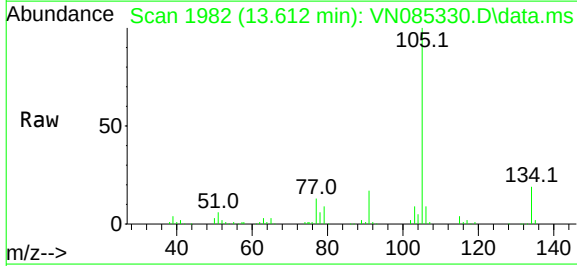
134 19.1 9.4 28.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#86

p-Isopropyltoluene

Concen: 18.228 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

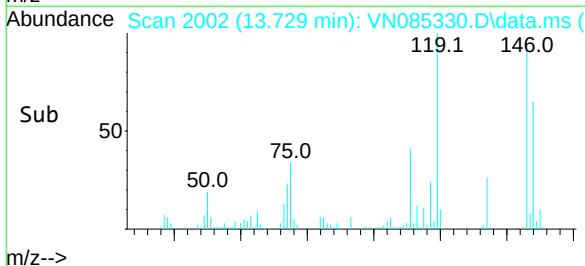
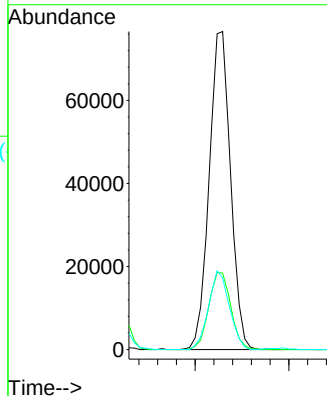
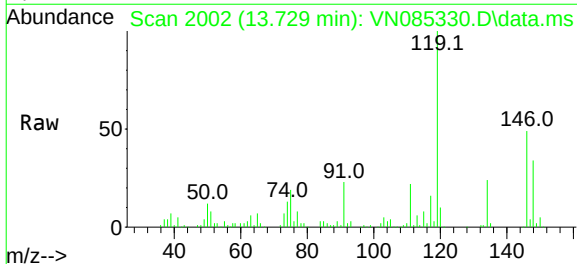
Tgt Ion:119 Resp: 121179

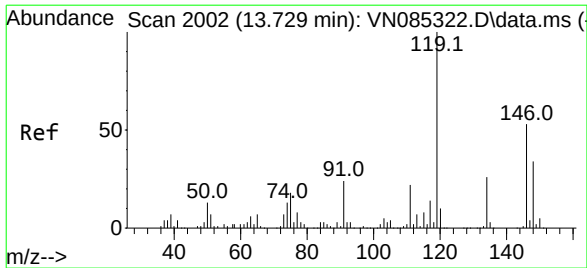
Ion Ratio Lower Upper

119 100

134 25.0 12.5 37.5

91 24.1 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 18.395 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

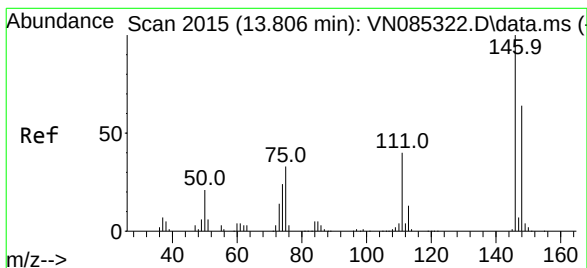
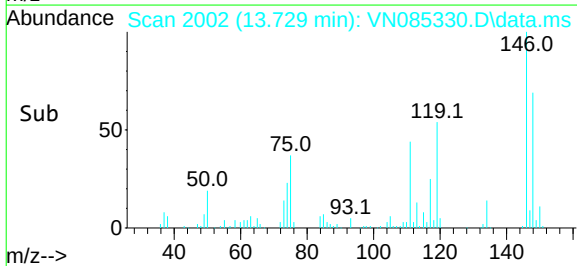
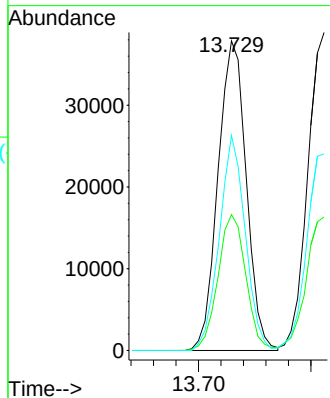
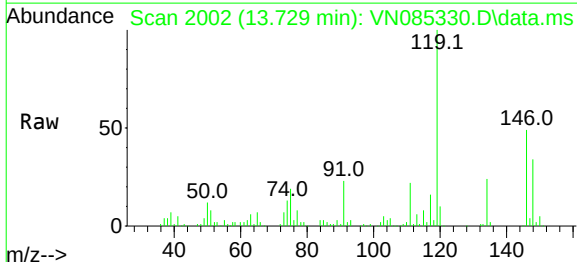
Tgt Ion:	146	Resp:	66029
Ion Ratio	Lower	Upper	
146	100		
111	43.4	21.3	63.9
148	63.9	31.5	94.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#88

1,4-Dichlorobenzene

Concen: 17.686 ug/l

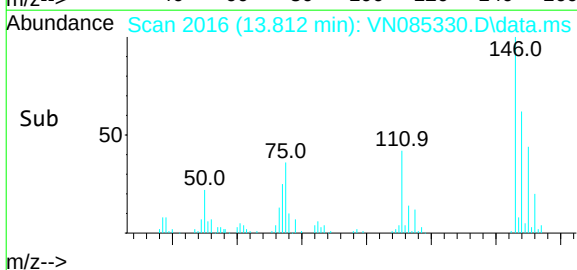
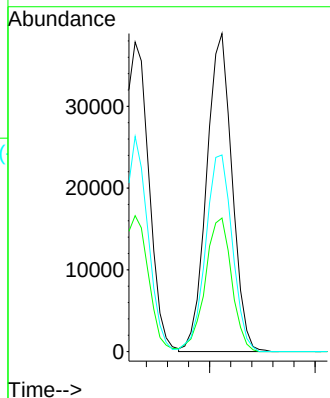
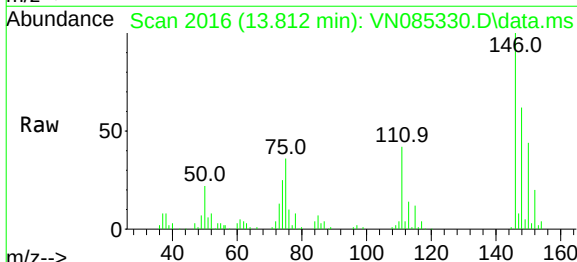
RT: 13.812 min Scan# 2016

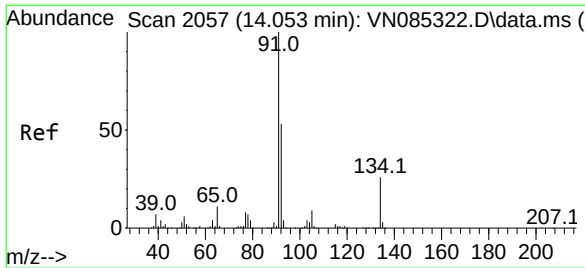
Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Tgt Ion:	146	Resp:	65210
Ion Ratio	Lower	Upper	
146	100		
111	43.6	20.8	62.5
148	65.0	31.7	95.1





#89

n-Butylbenzene

Concen: 17.919 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion: 91 Resp: 101990

Ion Ratio Lower Upper

91 100

92 50.4 26.0 78.0

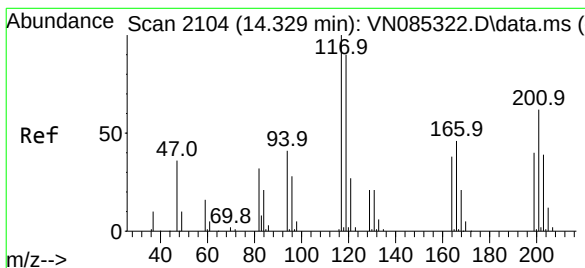
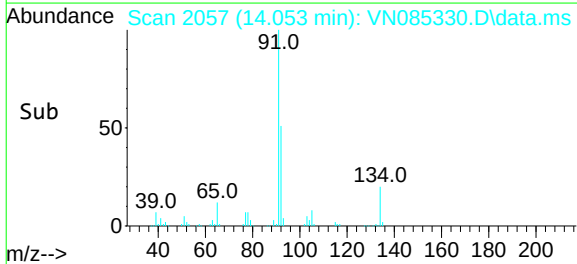
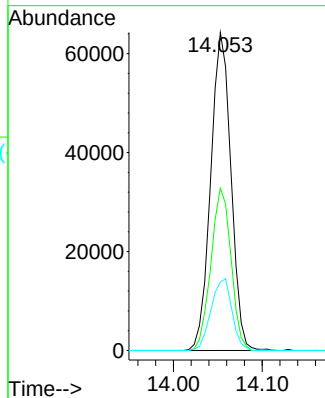
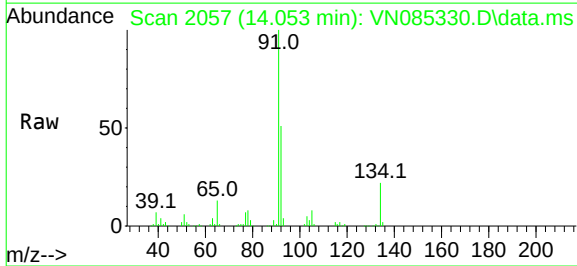
134 23.3 12.1 36.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#90

Hexachloroethane

Concen: 18.594 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. 0.000 min

Lab File: VN085330.D

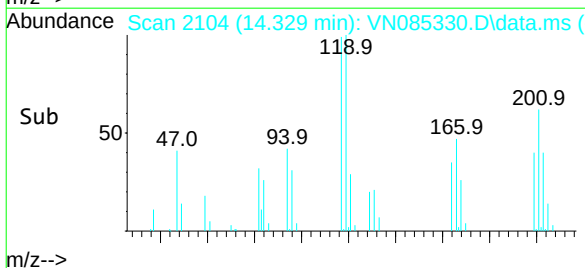
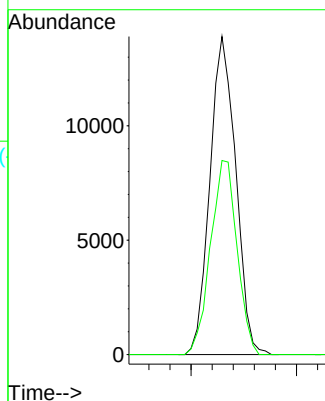
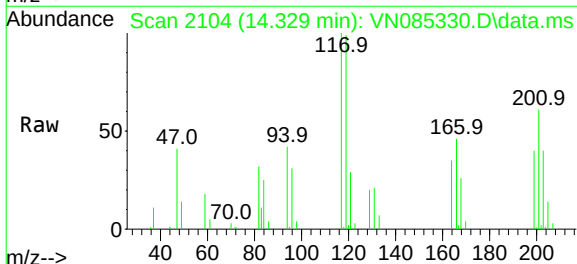
Acq: 27 Dec 2024 16:57

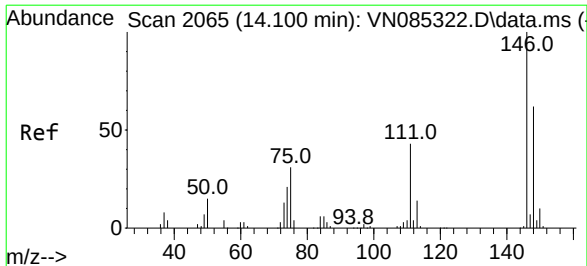
Tgt Ion:117 Resp: 23690

Ion Ratio Lower Upper

117 100

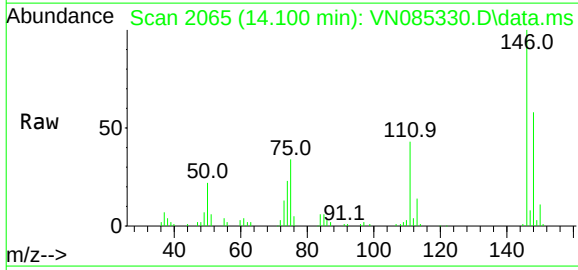
201 62.6 30.7 92.1





#91
1,2-Dichlorobenzene
Concen: 18.649 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

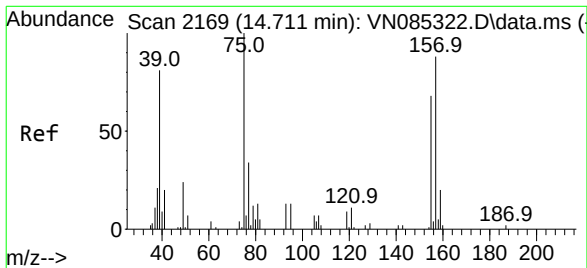
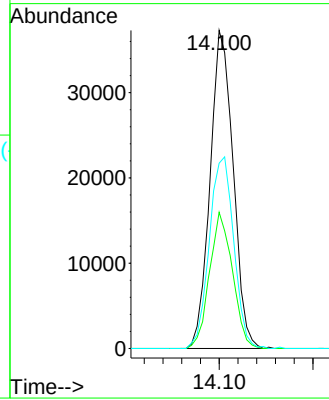
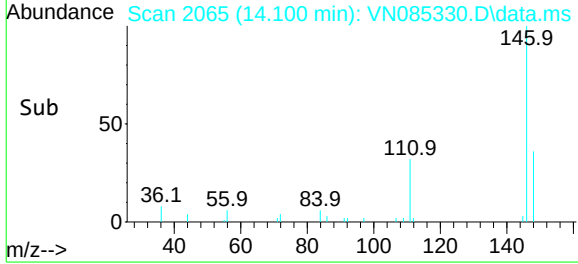
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBS01



Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.8	65.3
148	63.9	31.4	94.2

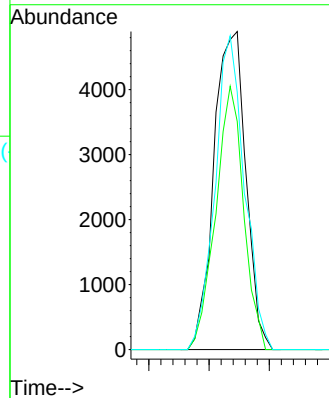
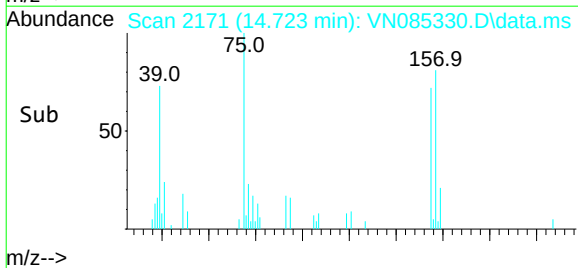
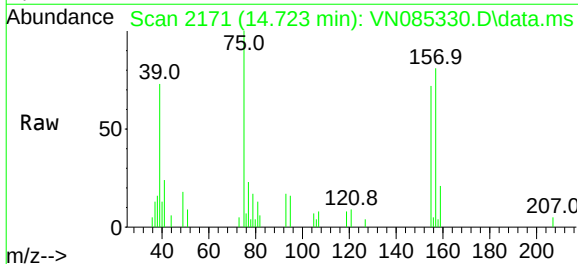
Manual Integrations
APPROVED

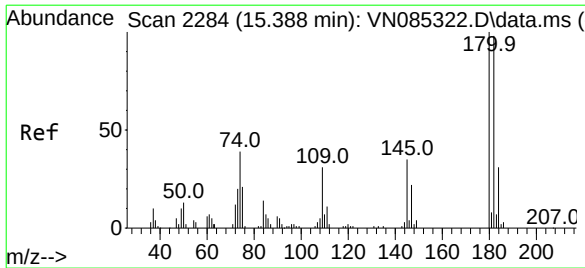
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.860 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.012 min
Lab File: VN085330.D
Acq: 27 Dec 2024 16:57

Tgt Ion	Ratio	Lower	Upper
75	100		
155	72.4	35.6	106.9
157	91.6	47.0	141.0





#93

1,2,4-Trichlorobenzene

Concen: 17.127 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

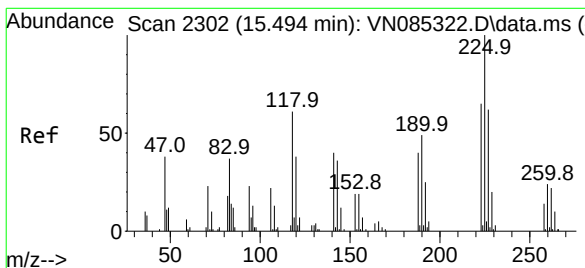
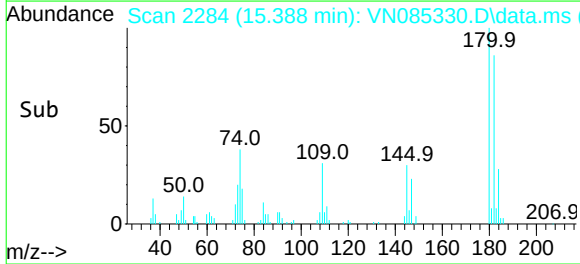
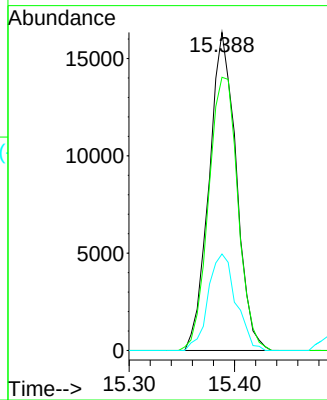
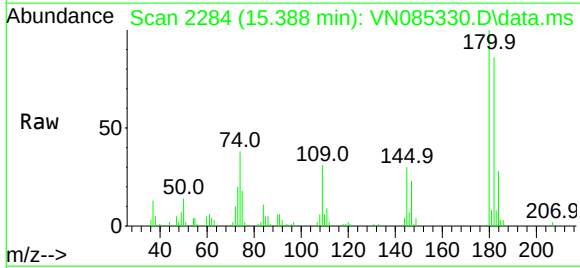
Tgt Ion:	180	Resp:	29229
Ion Ratio	Lower	Upper	
180	100		
182	92.7	47.2	141.6
145	31.1	16.6	49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#94

Hexachlorobutadiene

Concen: 16.510 ug/l

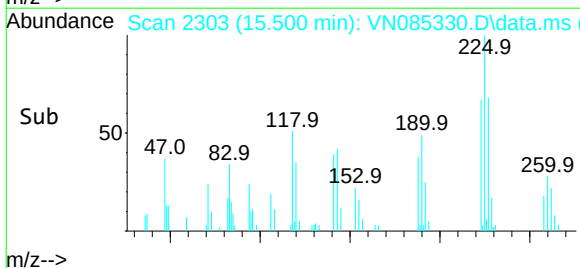
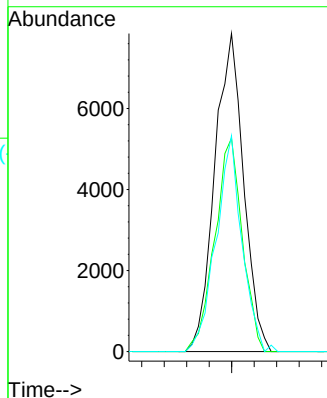
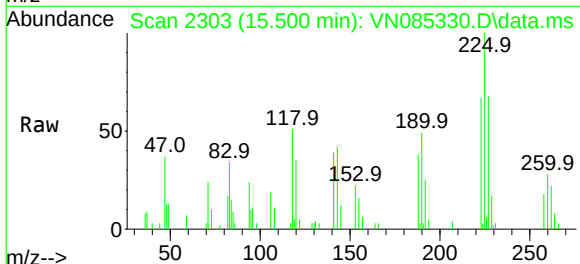
RT: 15.500 min Scan# 2303

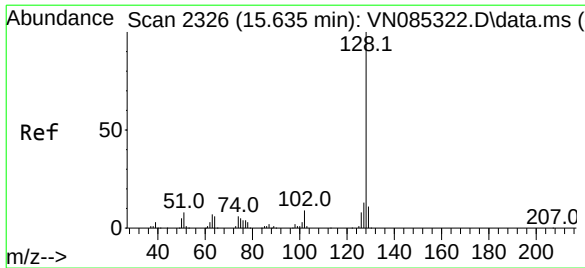
Delta R.T. 0.006 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Tgt Ion:	225	Resp:	13999
Ion Ratio	Lower	Upper	
225	100		
223	64.1	31.6	94.7
227	60.8	30.3	91.0





#95

Naphthalene

Concen: 16.560 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBS01

Tgt Ion:128 Resp: 95832

Ion Ratio Lower Upper

128 100

127 13.2 10.6 16.0

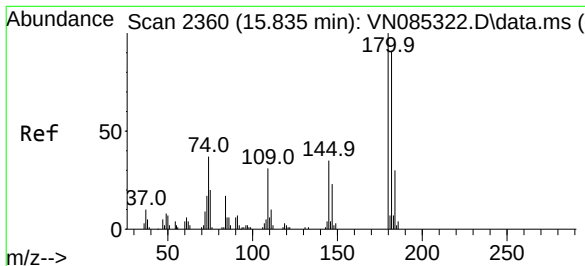
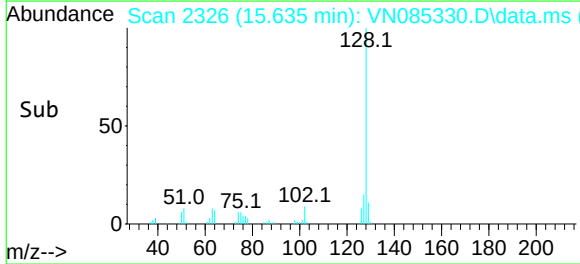
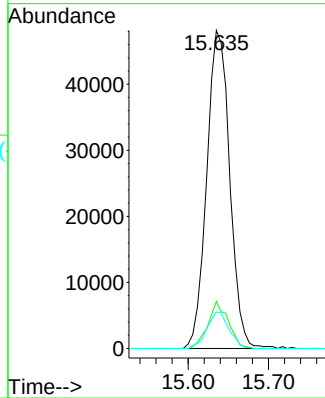
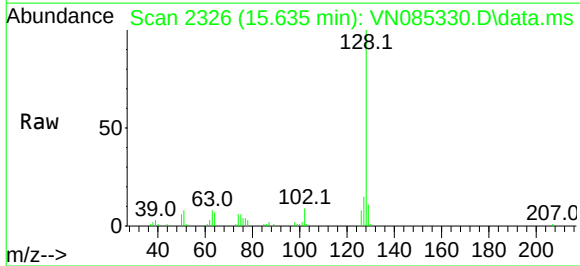
129 11.0 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#96

1,2,3-Trichlorobenzene

Concen: 17.443 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085330.D

Acq: 27 Dec 2024 16:57

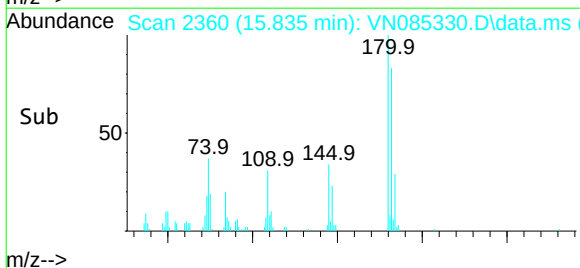
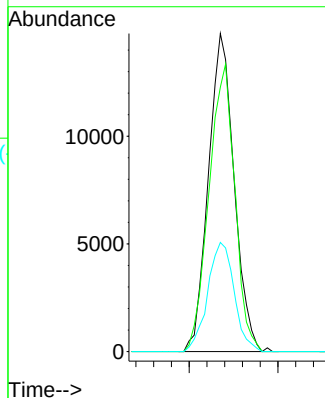
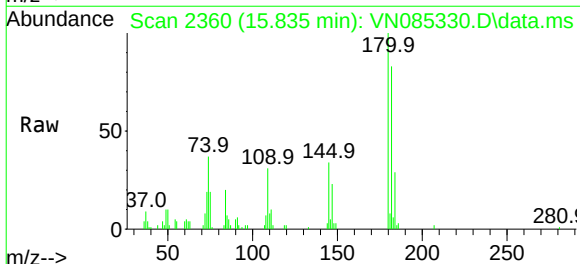
Tgt Ion:180 Resp: 29742

Ion Ratio Lower Upper

180 100

182 90.8 46.8 140.4

145 35.3 17.2 51.6



Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	VN1227WBSD01	SDG No.:	P5380
Lab Sample ID:	VN1227WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085331.D	1		12/27/24 17:30	VN122724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	18.6		0.34	0.75	5.00	ug/L
75-35-4	1,1-Dichloroethene	18.6		0.26	0.75	5.00	ug/L
78-93-3	2-Butanone	110		1.30	2.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.3		0.25	0.50	5.00	ug/L
67-66-3	Chloroform	19.1		0.26	0.50	5.00	ug/L
71-43-2	Benzene	19.5		0.16	0.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.7		0.24	0.75	5.00	ug/L
79-01-6	Trichloroethene	18.5		0.32	0.75	5.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.25	0.50	5.00	ug/L
108-90-7	Chlorobenzene	18.6		0.13	0.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.2		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	51.9		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	144000	8.218				
540-36-3	1,4-Difluorobenzene	258000	9.1				
3114-55-4	Chlorobenzene-d5	226000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	101000	13.788				

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\VN122724\
 Data File : VN085331.D
 Acq On : 27 Dec 2024 17:30
 Operator : JC\MD
 Sample : VN1227WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:43:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	144320	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	258119	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	226359	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	101437	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	111665	54.248	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	108.500%
35) Dibromofluoromethane	8.165	113	81846	50.827	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.660%
50) Toluene-d8	10.565	98	306433	51.858	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.720%
62) 4-Bromofluorobenzene	12.847	95	102680	52.322	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	104.640%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	36940	18.926	ug/l	100
3) Chloromethane	2.359	50	40431	18.430	ug/l	96
4) Vinyl Chloride	2.512	62	43248	18.641	ug/l	97
5) Bromomethane	2.959	94	27990	18.447	ug/l	97
6) Chloroethane	3.124	64	28037	19.056	ug/l	90
7) Trichlorofluoromethane	3.501	101	56663	18.580	ug/l	95
8) Diethyl Ether	3.959	74	20596	20.396	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	31898	18.381	ug/l	98
10) Methyl Iodide	4.595	142	38836	19.339	ug/l	94
11) Tert butyl alcohol	5.518	59	31625	122.694	ug/l	100
12) 1,1-Dichloroethene	4.342	96	29765	18.559	ug/l	87
13) Acrolein	4.177	56	42286	105.226	ug/l	99
14) Allyl chloride	5.018	41	48941	19.067	ug/l	96
15) Acrylonitrile	5.712	53	86613	106.764	ug/l	99
16) Acetone	4.424	43	74365	109.867	ug/l	97
17) Carbon Disulfide	4.712	76	85742	17.574	ug/l	100
18) Methyl Acetate	5.024	43	45651	22.030	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	106310	20.394	ug/l	99
20) Methylene Chloride	5.271	84	34153	18.759	ug/l	92
21) trans-1,2-Dichloroethene	5.783	96	31142	18.589	ug/l	94
22) Diisopropyl ether	6.671	45	112873	20.407	ug/l	97
23) Vinyl Acetate	6.600	43	420622	105.120	ug/l	98
24) 1,1-Dichloroethane	6.565	63	63046	18.922	ug/l	99
25) 2-Butanone	7.483	43	120630	114.877	ug/l	100
26) 2,2-Dichloropropane	7.489	77	55298	18.943	ug/l	100
27) cis-1,2-Dichloroethene	7.489	96	38491	19.575	ug/l	97
28) Bromochloromethane	7.812	49	31497	20.342	ug/l #	99
29) Tetrahydrofuran	7.836	42	77549	114.648	ug/l	98
30) Chloroform	7.965	83	65160	19.116	ug/l	97
31) Cyclohexane	8.253	56	53985	17.744	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	55283	18.160	ug/l	99
36) 1,1-Dichloropropene	8.371	75	44914	19.050	ug/l	98
37) Ethyl Acetate	7.559	43	51502	21.977	ug/l	99
38) Carbon Tetrachloride	8.359	117	49612	19.305	ug/l	98
39) Methylcyclohexane	9.600	83	46006	18.807	ug/l	98
40) Benzene	8.600	78	139012	19.501	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085331.D
 Acq On : 27 Dec 2024 17:30
 Operator : JC\MD
 Sample : VN1227WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1227WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:43:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	25169	20.971	ug/l	98
42) 1,2-Dichloroethane	8.671	62	50307	19.684	ug/l	99
43) Isopropyl Acetate	8.688	43	81902	21.225	ug/l	99
44) Trichloroethene	9.347	130	31187	18.479	ug/l	89
45) 1,2-Dichloropropane	9.618	63	36004	19.896	ug/l	95
46) Dibromomethane	9.712	93	24716	19.639	ug/l	99
47) Bromodichloromethane	9.888	83	52551	20.090	ug/l #	96
48) Methyl methacrylate	9.677	41	36782	21.968	ug/l	98
49) 1,4-Dioxane	9.694	88	13671	541.163	ug/l	99
51) 4-Methyl-2-Pentanone	10.441	43	248614	114.650	ug/l	100
52) Toluene	10.624	92	85029	20.033	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	51708	20.101	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	55748	20.042	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	32750	20.437	ug/l	96
56) Ethyl methacrylate	10.871	69	50141	21.484	ug/l	97
57) 1,3-Dichloropropane	11.159	76	57554	20.463	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	131176	116.170	ug/l	99
59) 2-Hexanone	11.194	43	176533	117.338	ug/l	100
60) Dibromochloromethane	11.359	129	36970	20.483	ug/l	99
61) 1,2-Dibromoethane	11.471	107	32084	20.237	ug/l	98
64) Tetrachloroethene	11.100	164	27124	18.911	ug/l	96
65) Chlorobenzene	11.888	112	91123	18.629	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	31726	19.325	ug/l	98
67) Ethyl Benzene	11.959	91	156061	19.184	ug/l	98
68) m/p-Xylenes	12.071	106	119809	40.244	ug/l	100
69) o-Xylene	12.394	106	56516	19.624	ug/l	98
70) Styrene	12.406	104	92662	19.853	ug/l	99
71) Bromoform	12.576	173	23369	20.552	ug/l #	99
73) Isopropylbenzene	12.694	105	142191	19.493	ug/l	100
74) N-amyl acetate	12.494	43	66923	21.434	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	47785	20.569	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	38489m	20.319	ug/l	
77) Bromobenzene	12.976	156	34066	18.850	ug/l	99
78) n-propylbenzene	13.035	91	168593	19.828	ug/l	100
79) 2-Chlorotoluene	13.123	91	104075	19.449	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	117966	19.994	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	15606	19.730	ug/l	87
82) 4-Chlorotoluene	13.218	91	105071	19.496	ug/l	99
83) tert-Butylbenzene	13.435	119	97764	19.128	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	117310	19.968	ug/l	98
85) sec-Butylbenzene	13.612	105	138962	19.588	ug/l	100
86) p-Isopropyltoluene	13.729	119	113227	18.647	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	61805	18.865	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	62145	18.466	ug/l	99
89) n-Butylbenzene	14.053	91	97095	18.690	ug/l	99
90) Hexachloroethane	14.329	117	22343	19.213	ug/l	98
91) 1,2-Dichlorobenzene	14.100	146	59449	19.049	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	9218	22.294	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	28607	18.366	ug/l	98
94) Hexachlorobutadiene	15.500	225	13450	17.379	ug/l	99
95) Naphthalene	15.641	128	92054	17.429	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	27454	17.641	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085331.D
Acq On : 27 Dec 2024 17:30
Operator : JC\MD
Sample : VN1227WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:43:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

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

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

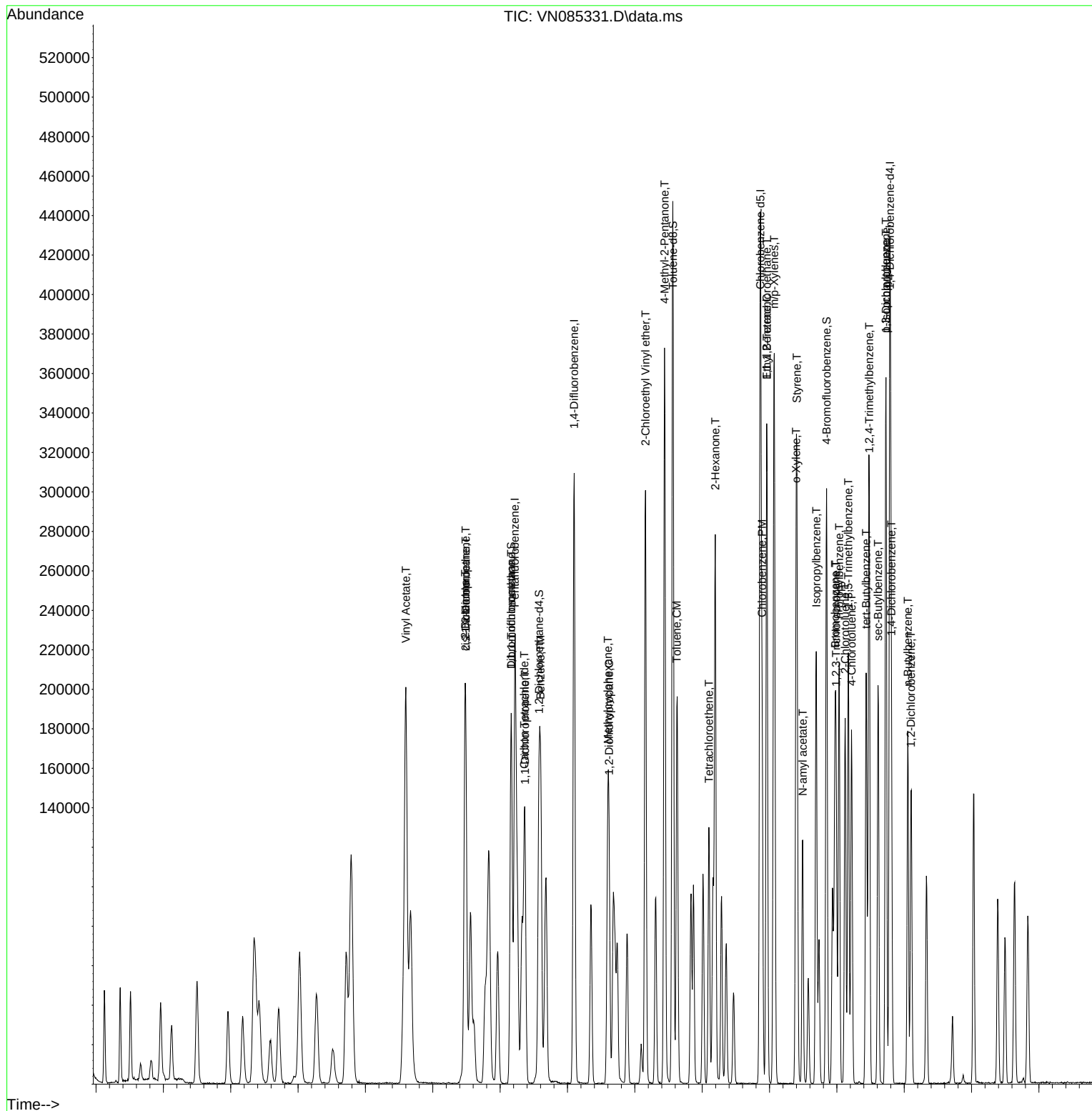

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\  
Data File : VN085331.D  
Acq On    : 27 Dec 2024 17:30  
Operator  : JC\MD  
Sample    : VN1227WBSD01  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 13 Sample Multiplier: 1
```

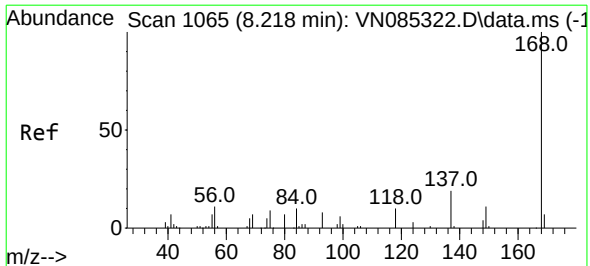
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

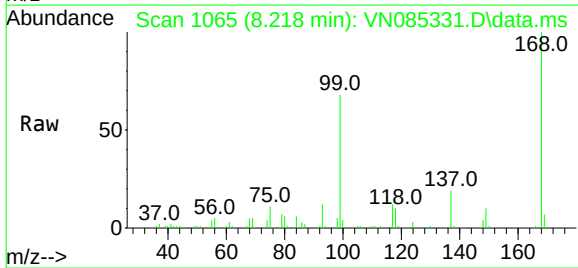
Quant Time: Dec 28 01:43:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

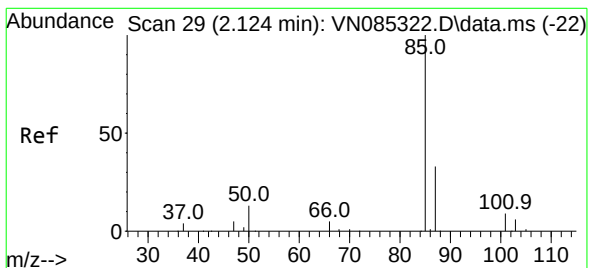
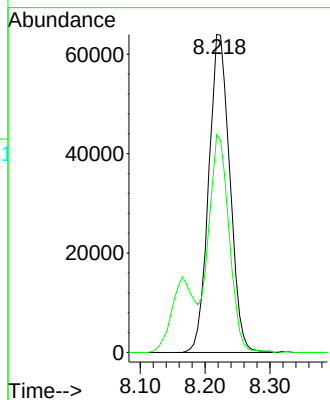
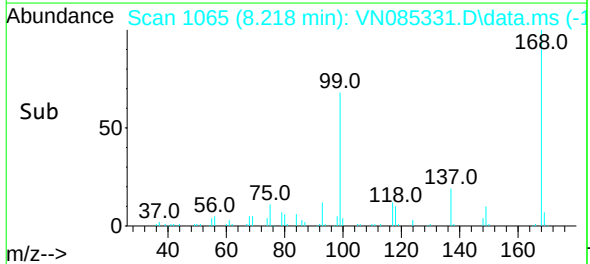
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBSD01



Tgt Ion: 168 Resp: 144320
Ion Ratio Lower Upper
168 100
99 68.2 51.0 76.4

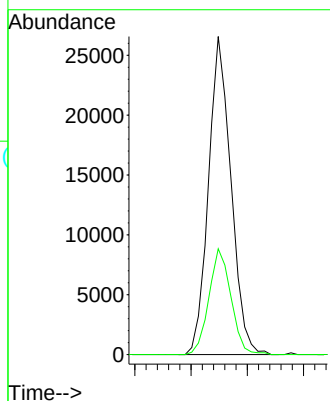
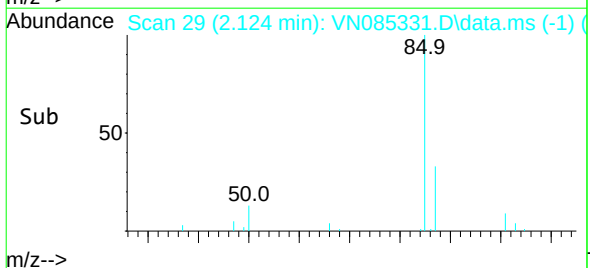
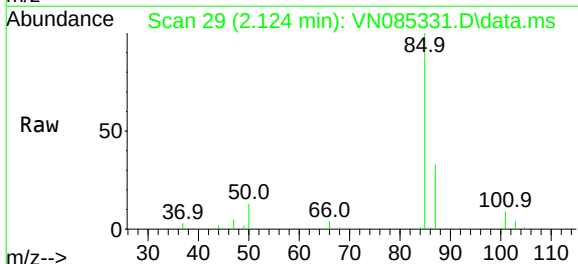
Manual Integrations
APPROVED

Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024

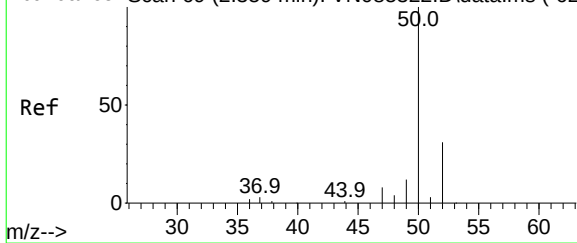


#2
Dichlorodifluoromethane
Concen: 18.926 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

Tgt Ion: 85 Resp: 36940
Ion Ratio Lower Upper
85 100
87 33.3 16.8 50.3



Abundance Scan 69 (2.359 min): VN085331.D\data.ms (-62)



#3

Chloromethane

Concen: 18.430 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 50 Resp: 40431

Ion Ratio Lower Upper

50 100

52 33.8 25.1 37.7

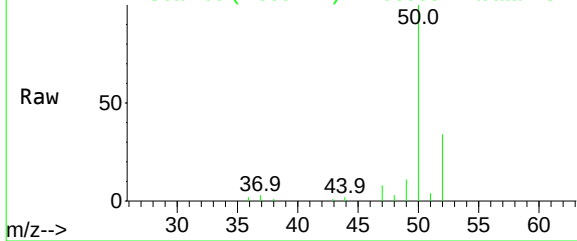
Manual Integrations

APPROVED

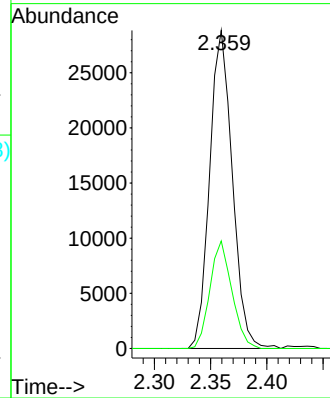
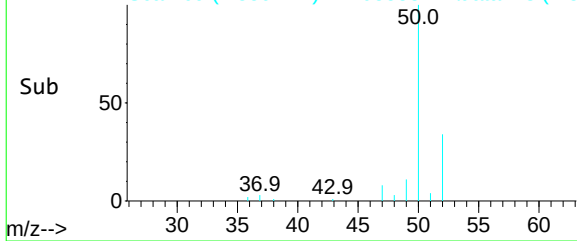
Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024

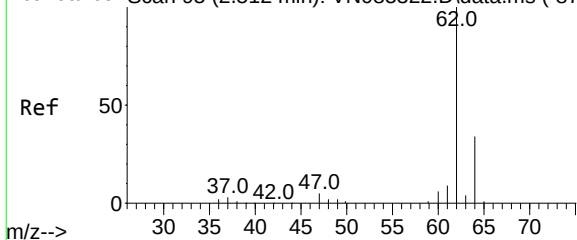
Abundance Scan 69 (2.359 min): VN085331.D\data.ms



Abundance Scan 69 (2.359 min): VN085331.D\data.ms (-18)



Abundance Scan 95 (2.512 min): VN085331.D\data.ms (-87)



#4

Vinyl Chloride

Concen: 18.641 ug/l

RT: 2.512 min Scan# 95

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

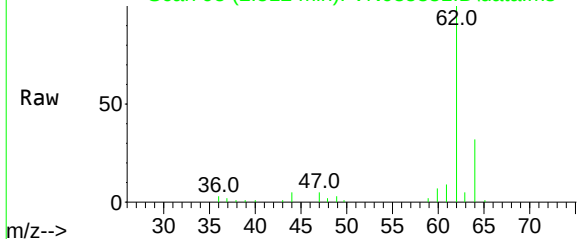
Tgt Ion: 62 Resp: 43248

Ion Ratio Lower Upper

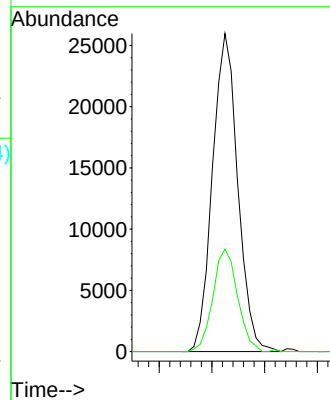
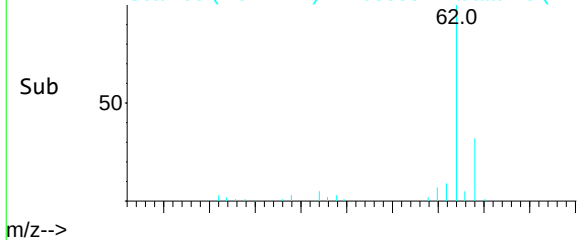
62 100

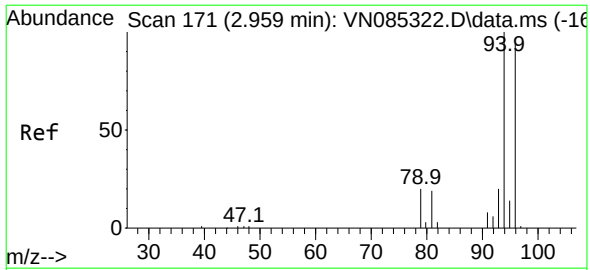
64 32.2 27.0 40.6

Abundance Scan 95 (2.512 min): VN085331.D\data.ms



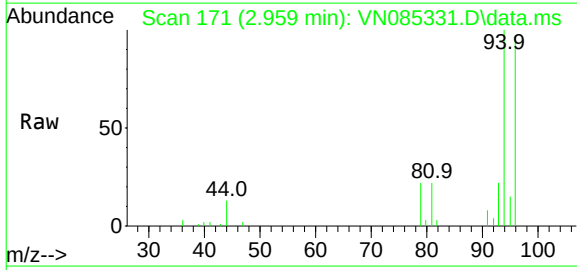
Abundance Scan 95 (2.512 min): VN085331.D\data.ms (-44)





#5
Bromomethane
Concen: 18.447 ug/l
RT: 2.959 min Scan# 171
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

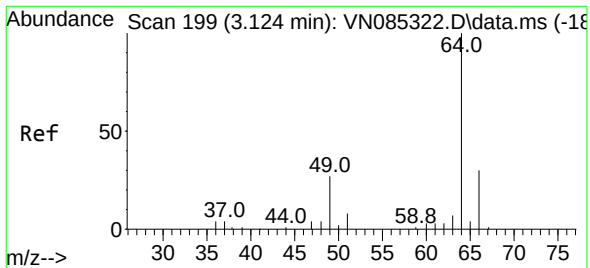
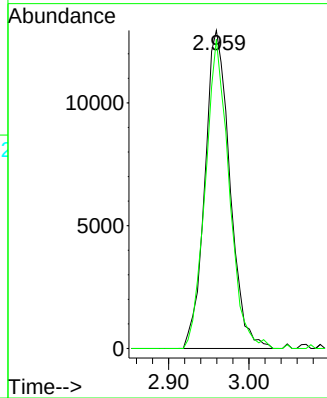
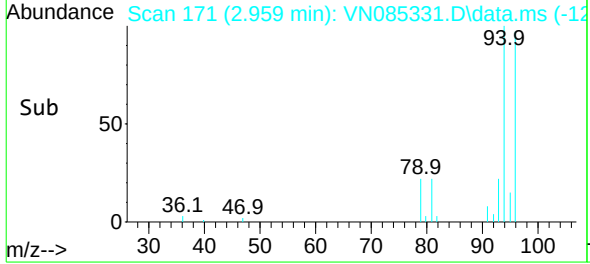
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBSD01



Tgt Ion: 94 Resp: 27990
Ion Ratio Lower Upper
94 100
96 97.2 75.2 112.8

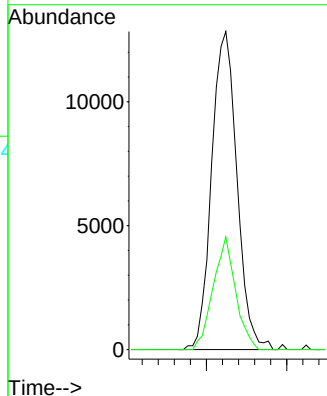
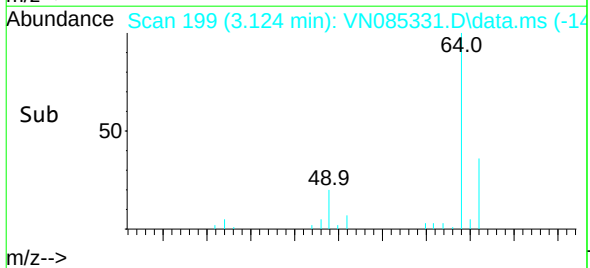
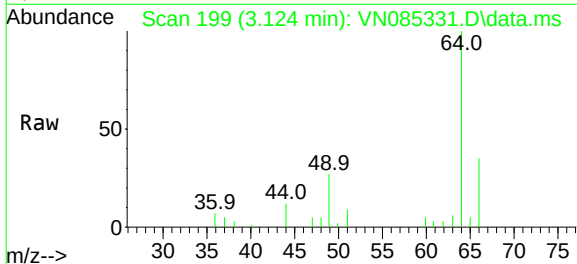
Manual Integrations
APPROVED

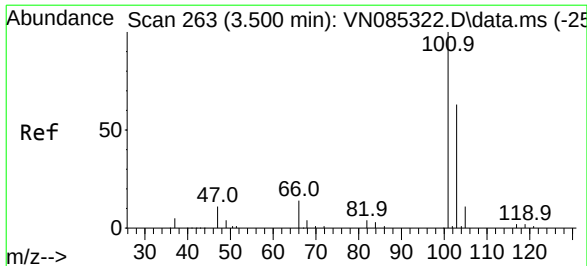
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#6
Chloroethane
Concen: 19.056 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

Tgt Ion: 64 Resp: 28037
Ion Ratio Lower Upper
64 100
66 35.4 24.1 36.1





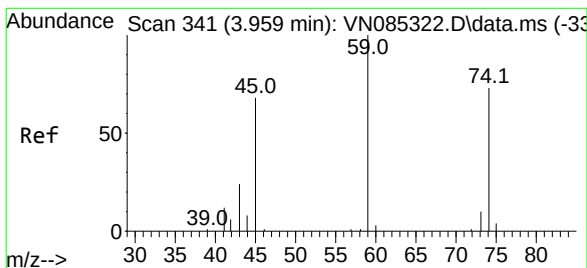
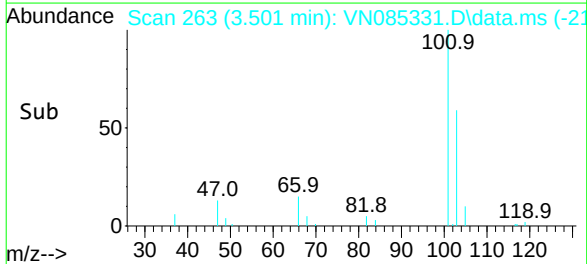
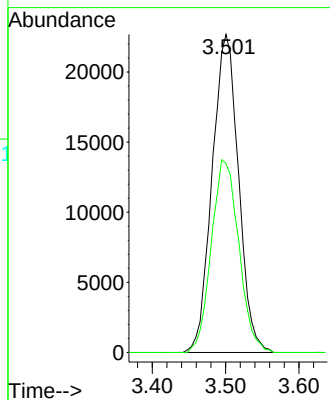
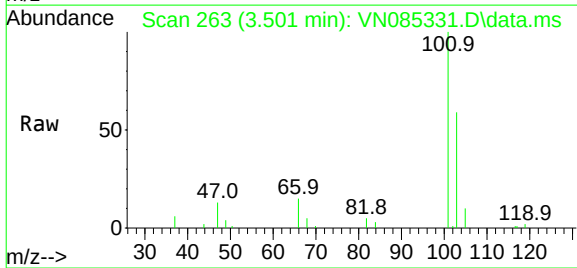
#7
Trichlorofluoromethane
Concen: 18.580 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBSD01

Tgt Ion: 101 Resp: 56663
Ion Ratio Lower Upper
101 100
103 59.4 50.3 75.5

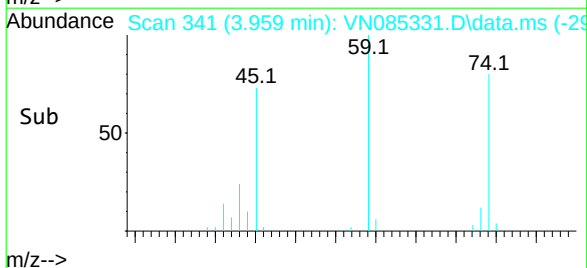
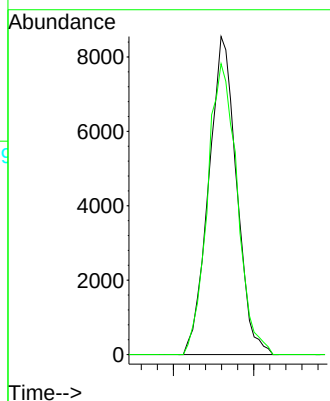
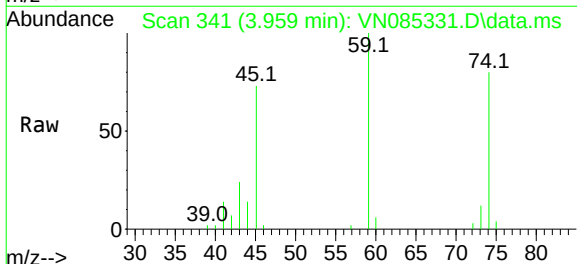
Manual Integrations
APPROVED

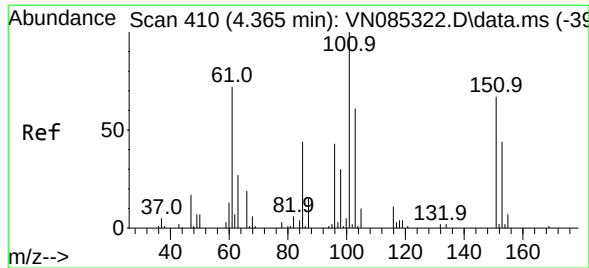
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#8
Diethyl Ether
Concen: 20.396 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

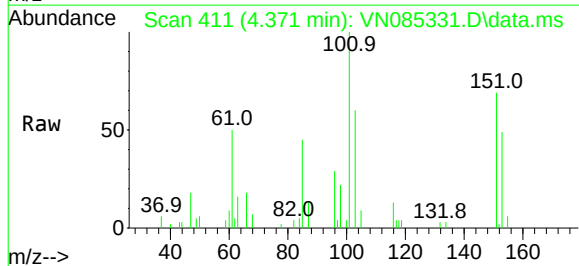
Tgt Ion: 74 Resp: 20596
Ion Ratio Lower Upper
74 100
45 97.5 47.5 142.6





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.381 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

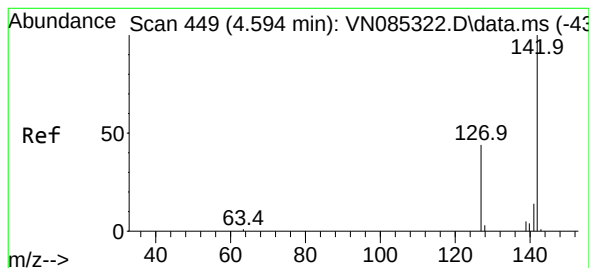
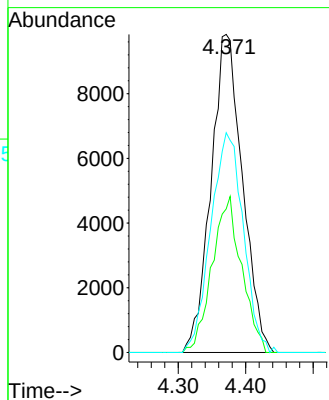
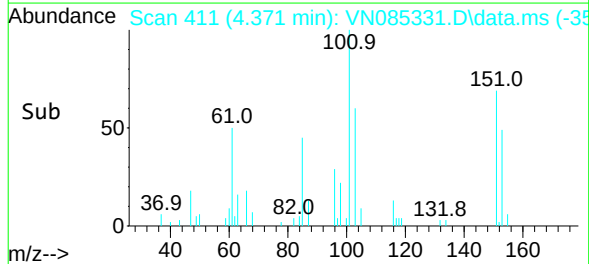
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBSD01



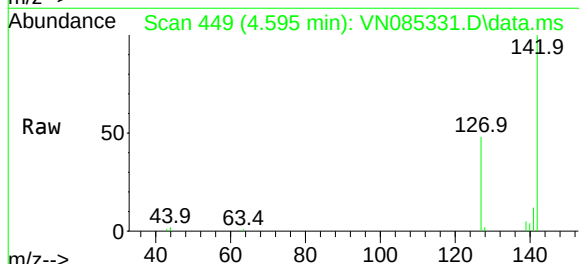
Tgt Ion	Ratio	Lower	Upper
101	100		
85	46.0	36.2	54.4
151	71.3	55.8	83.6

Manual Integrations
APPROVED

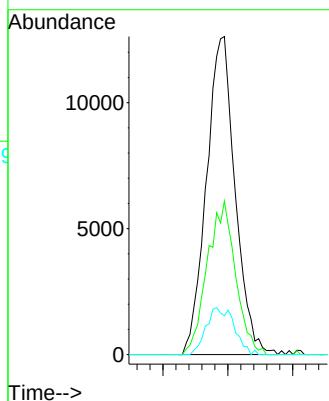
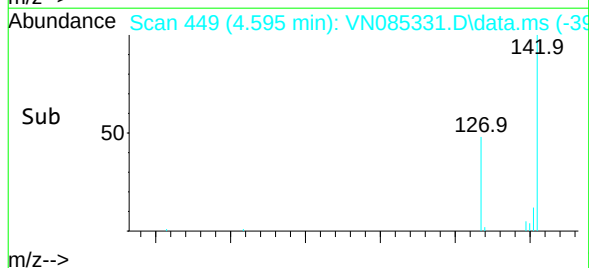
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

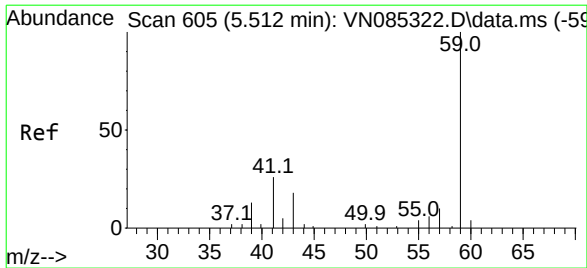


#10
Methyl Iodide
Concen: 19.339 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30



Tgt Ion	Ratio	Lower	Upper
142	100		
127	48.3	35.3	52.9
141	12.2	11.5	17.3





#11

Tert butyl alcohol

Concen: 122.694 ug/l

RT: 5.518 min Scan# 605

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 59 Resp: 31625

Ion Ratio Lower Upper

59 100

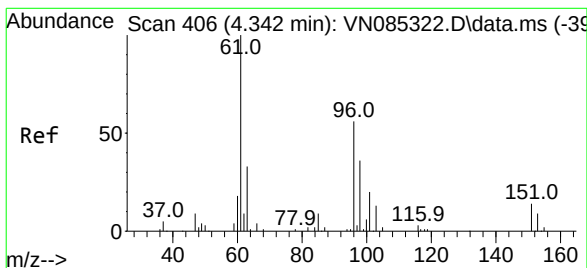
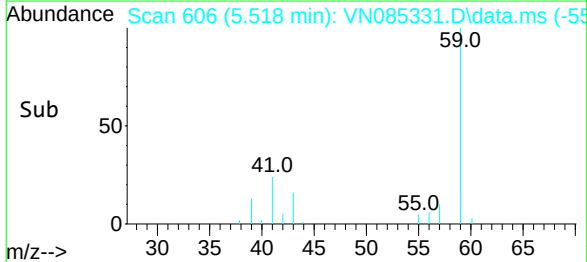
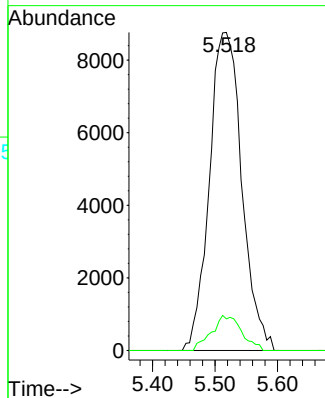
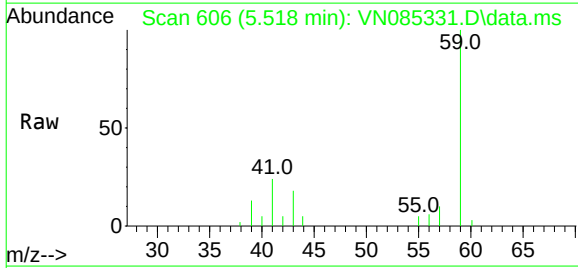
57 10.2 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#12

1,1-Dichloroethene

Concen: 18.559 ug/l

RT: 4.342 min Scan# 406

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

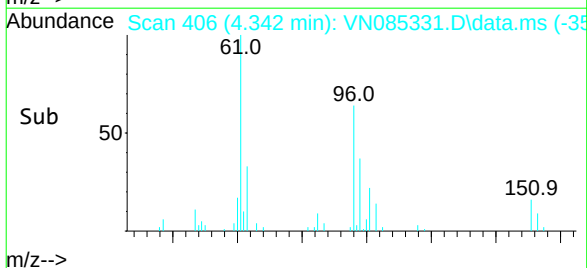
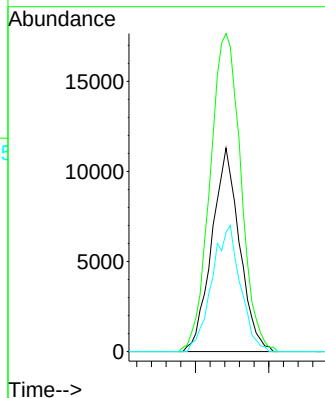
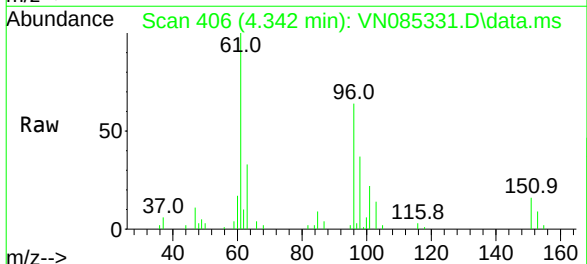
Tgt Ion: 96 Resp: 29765

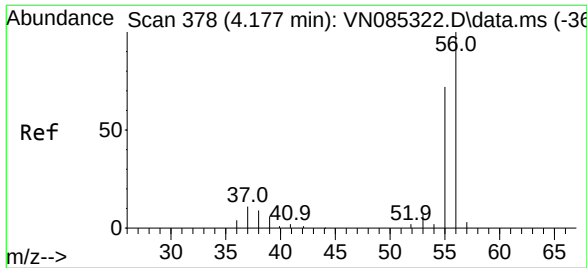
Ion Ratio Lower Upper

96 100

61 156.3 142.4 213.6

98 58.5 51.5 77.3





#13

Acrolein

Concen: 105.226 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 56 Resp: 42286

Ion Ratio Lower Upper

56 100

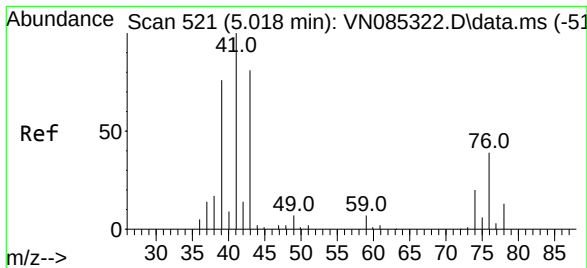
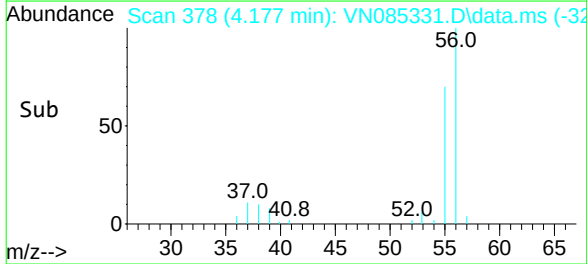
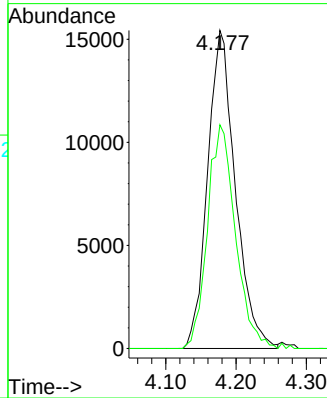
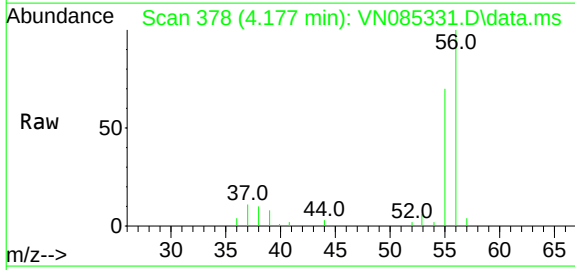
55 70.7 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#14

Allyl chloride

Concen: 19.067 ug/l

RT: 5.018 min Scan# 521

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

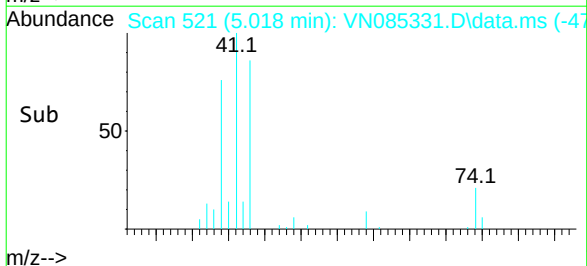
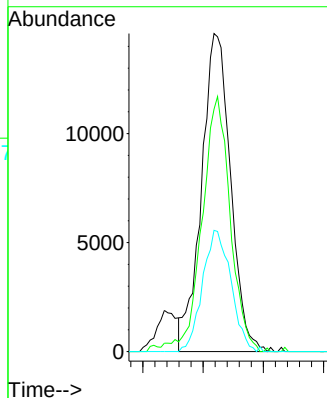
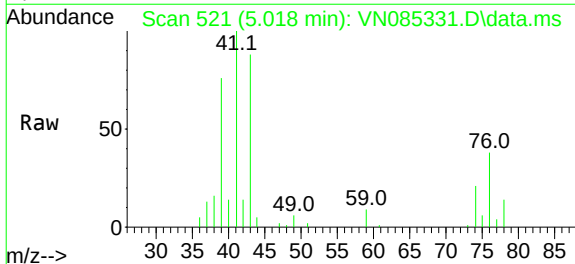
Tgt Ion: 41 Resp: 48941

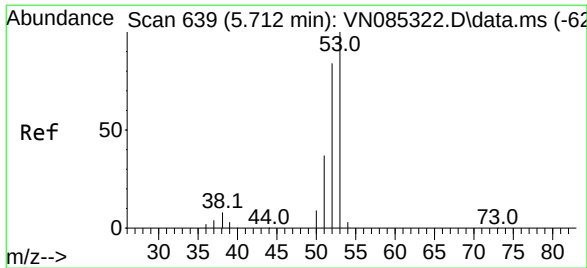
Ion Ratio Lower Upper

41 100

39 77.4 64.4 96.6

76 37.0 31.5 47.3





#15

Acrylonitrile

Concen: 106.764 ug/l

RT: 5.712 min Scan# 63

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 53 Resp: 86613

Ion Ratio Lower Upper

53 100

52 84.0 66.6 100.0

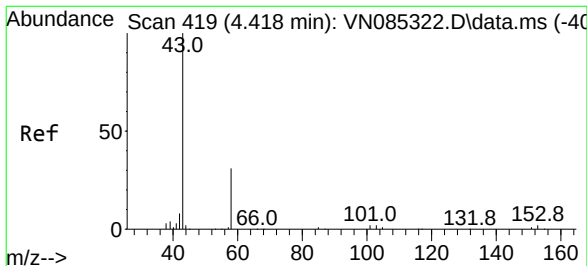
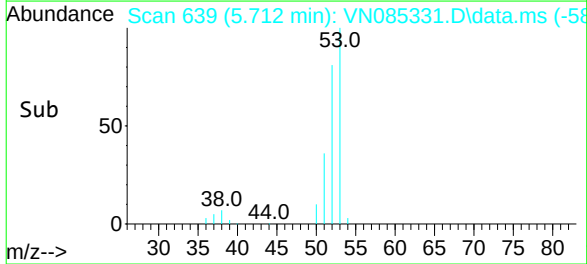
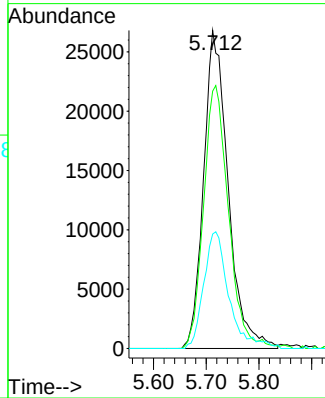
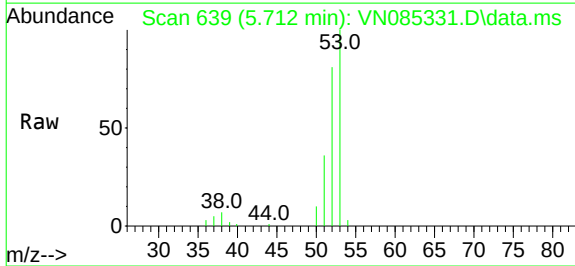
51 37.6 29.6 44.4

Manual Integrations

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#16

Acetone

Concen: 109.867 ug/l

RT: 4.424 min Scan# 420

Delta R.T. 0.006 min

Lab File: VN085331.D

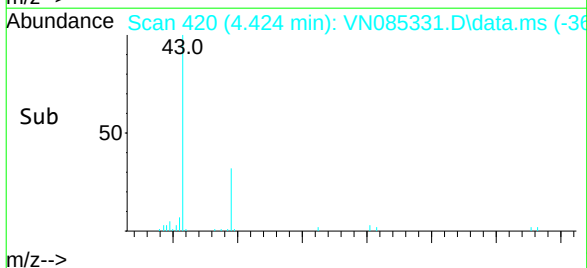
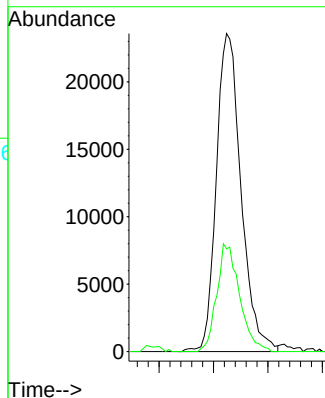
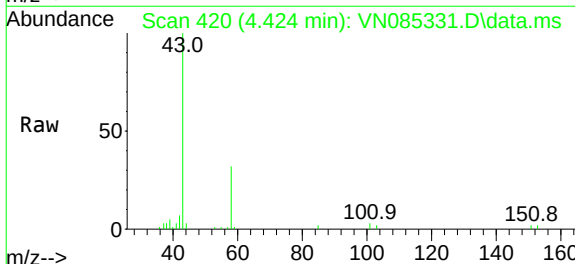
Acq: 27 Dec 2024 17:30

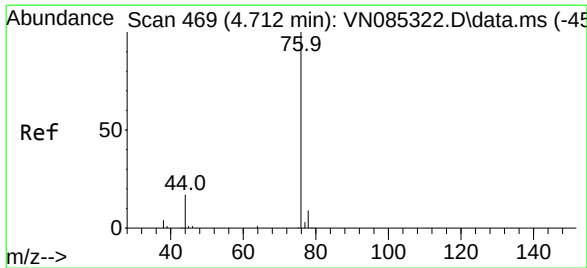
Tgt Ion: 43 Resp: 74365

Ion Ratio Lower Upper

43 100

58 32.3 24.5 36.7





#17

Carbon Disulfide

Concen: 17.574 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 76 Resp: 85742

Ion Ratio Lower Upper

76 100

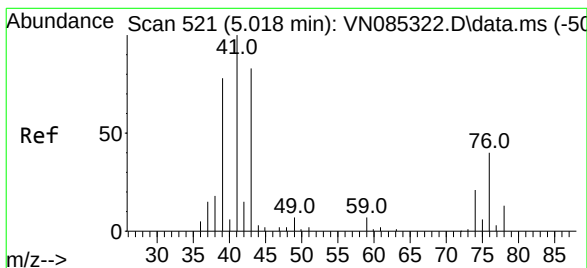
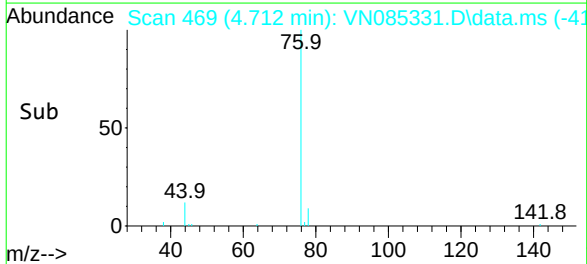
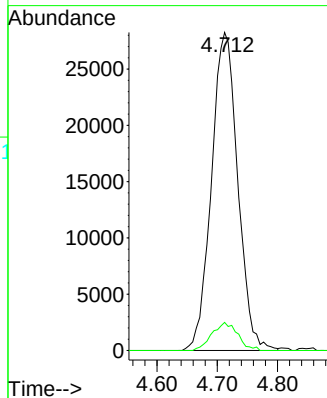
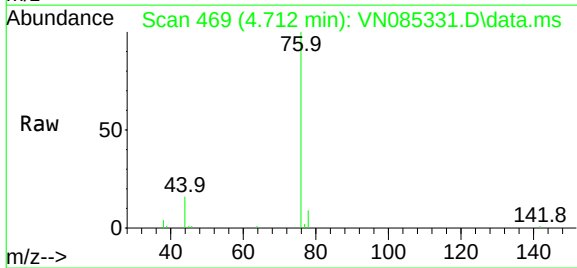
78 8.8 7.2 10.8

Manual Integrations

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#18

Methyl Acetate

Concen: 22.030 ug/l

RT: 5.024 min Scan# 522

Delta R.T. 0.006 min

Lab File: VN085331.D

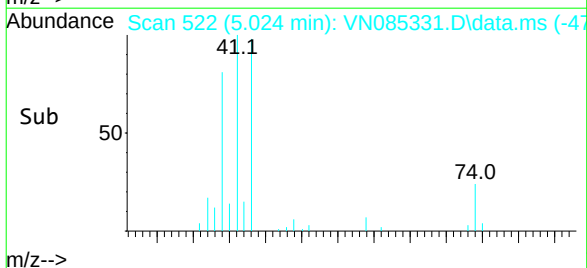
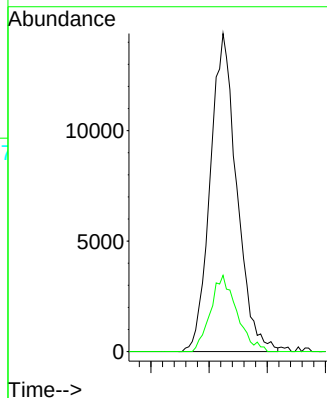
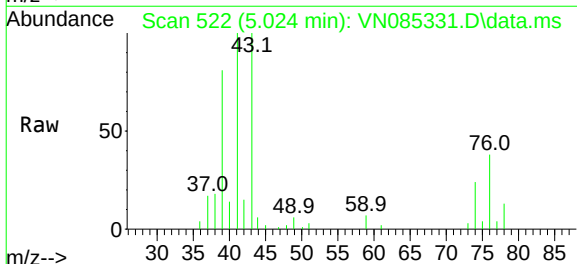
Acq: 27 Dec 2024 17:30

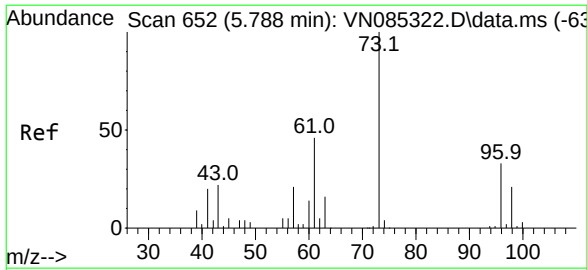
Tgt Ion: 43 Resp: 45651

Ion Ratio Lower Upper

43 100

74 23.6 19.0 28.6





#19

Methyl tert-butyl Ether

Concen: 20.394 ug/l

RT: 5.789 min Scan# 65

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 73 Resp: 106310

Ion Ratio Lower Upper

73 100

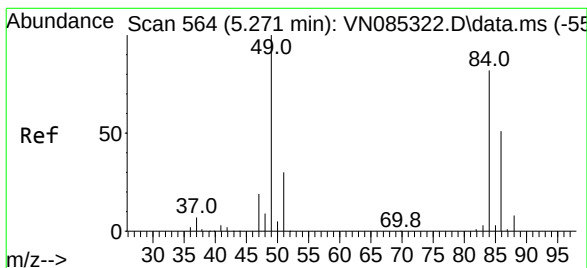
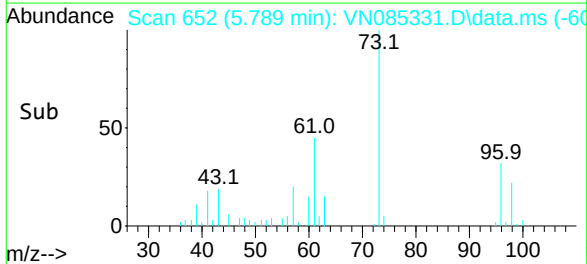
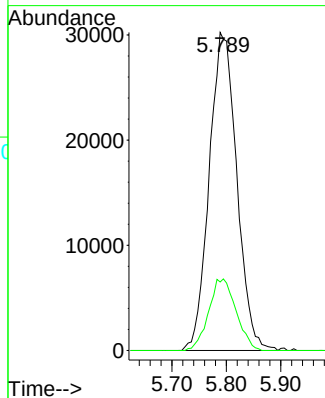
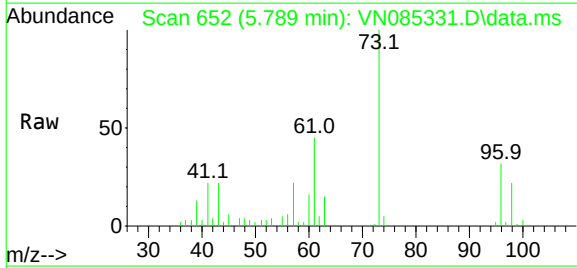
57 21.5 17.0 25.6

Manual Integrations

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#20

Methylene Chloride

Concen: 18.759 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Tgt Ion: 84 Resp: 34153

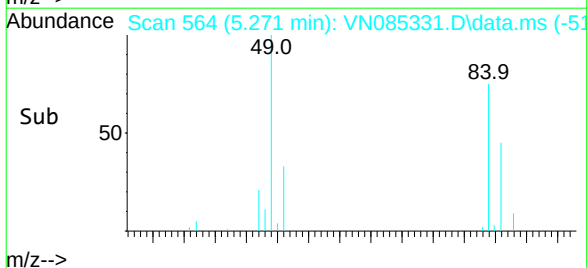
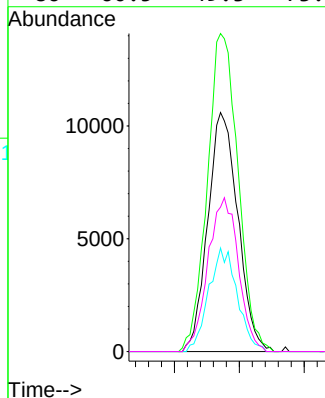
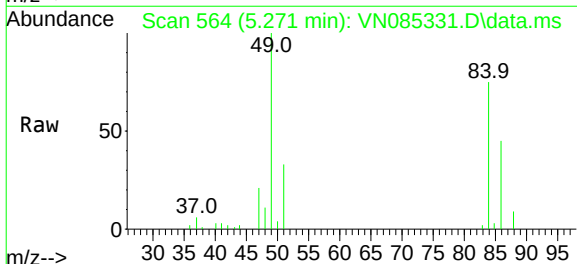
Ion Ratio Lower Upper

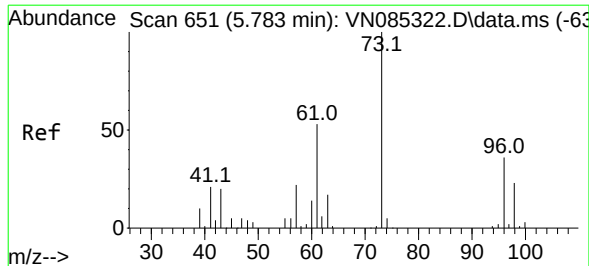
84 100

49 133.0 97.6 146.4

51 43.3 29.1 43.7

86 60.5 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 18.589 ug/l

RT: 5.783 min Scan# 651

Delta R.T. 0.000 min

Lab File: VN085331.D

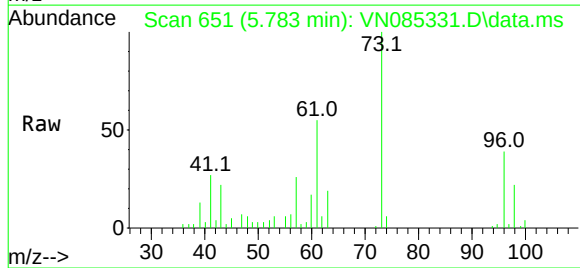
Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01



Tgt Ion: 96 Resp: 31142

Ion Ratio Lower Upper

96 100

61 141.0 118.0 177.0

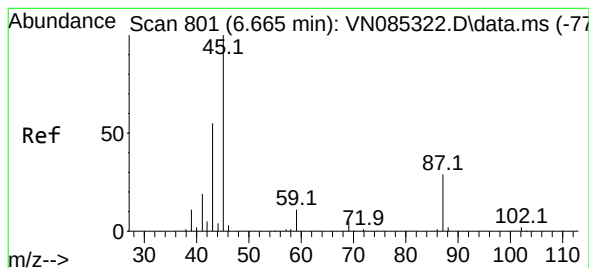
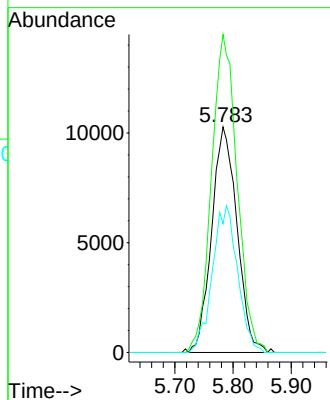
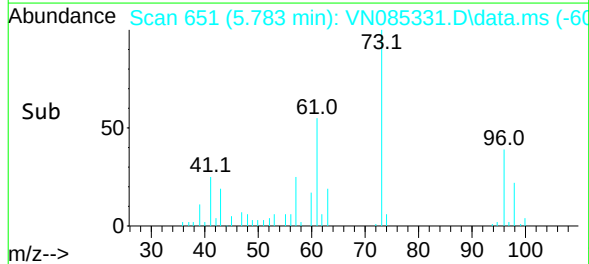
98 57.1 50.6 75.8

Manual Integrations

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Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#22

Diisopropyl ether

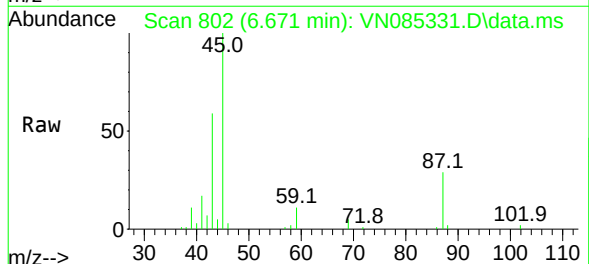
Concen: 20.407 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30



Tgt Ion: 45 Resp: 112873

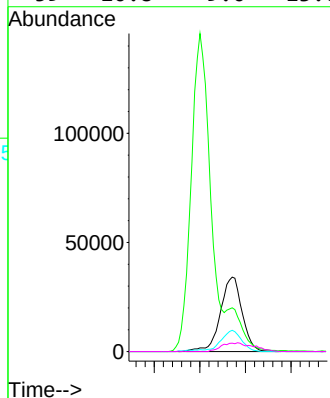
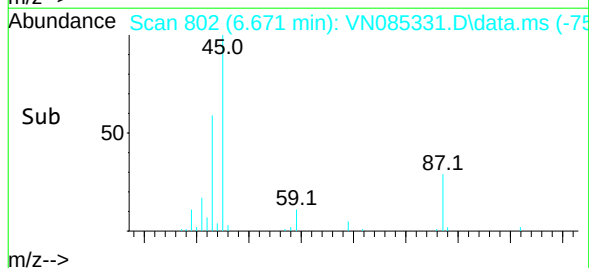
Ion Ratio Lower Upper

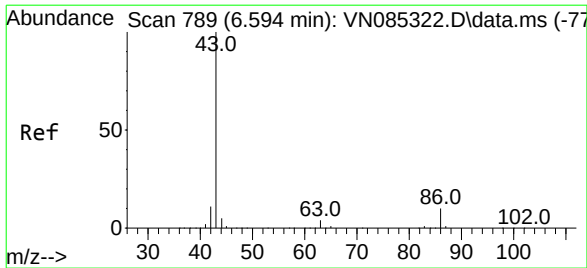
45 100

43 57.9 44.1 66.1

87 28.6 23.2 34.8

59 10.8 9.0 13.6





#23

Vinyl Acetate

Concen: 105.120 ug/l

RT: 6.600 min Scan# 790

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 43 Resp: 420622

Ion Ratio Lower Upper

43 100

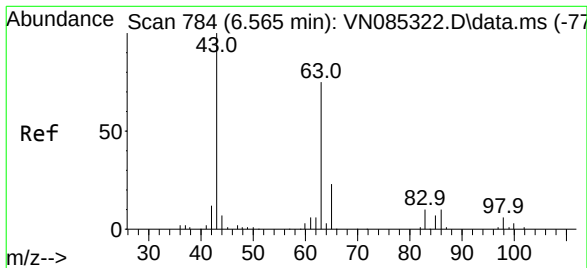
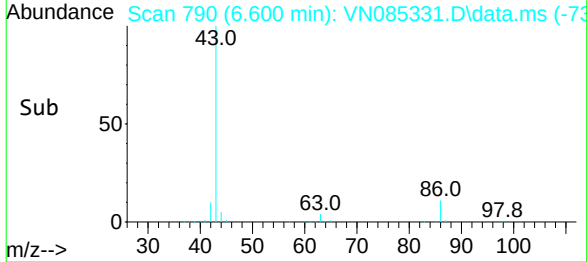
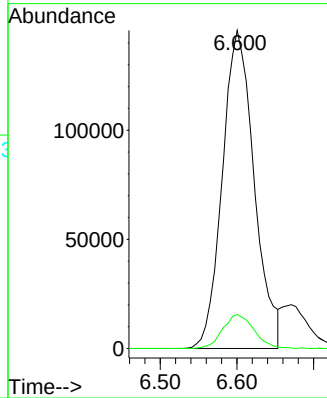
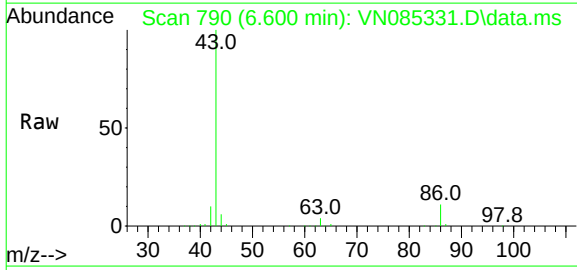
86 10.6 8.0 12.0

Manual Integrations

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Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#24

1,1-Dichloroethane

Concen: 18.922 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

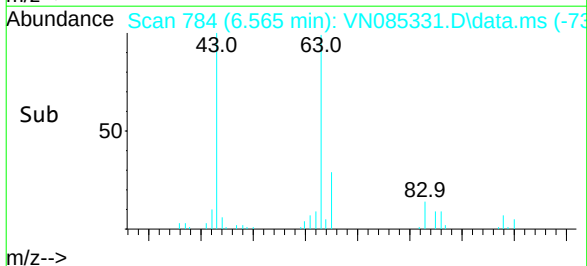
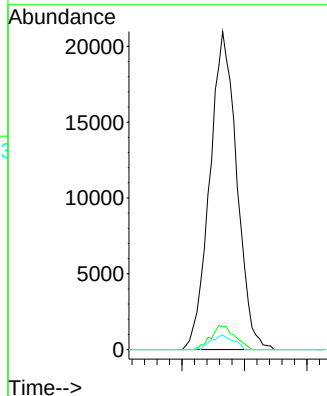
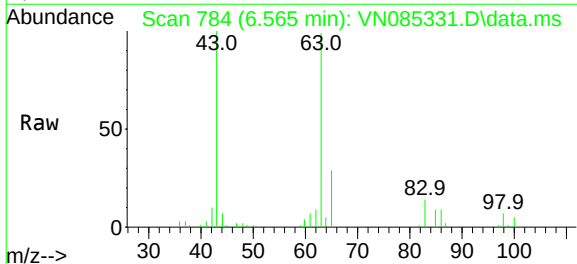
Tgt Ion: 63 Resp: 63046

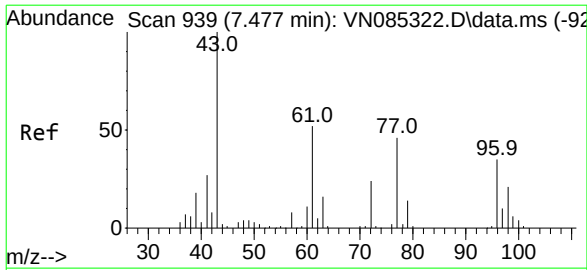
Ion Ratio Lower Upper

63 100

98 7.1 3.7 11.1

100 4.6 2.3 6.8





#25

2-Butanone

Concen: 114.877 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 43 Resp: 120630

Ion Ratio Lower Upper

43 100

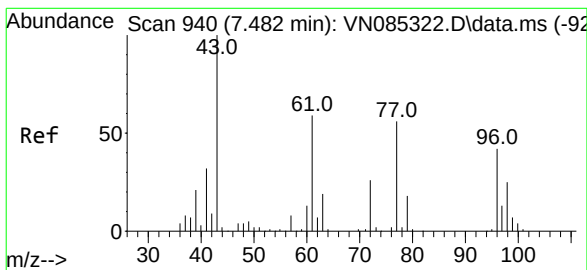
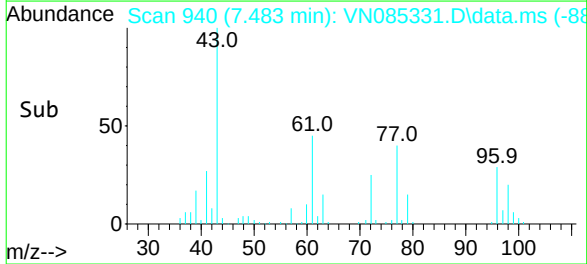
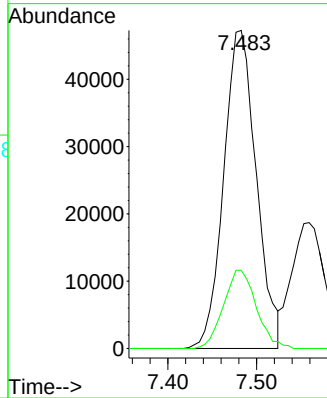
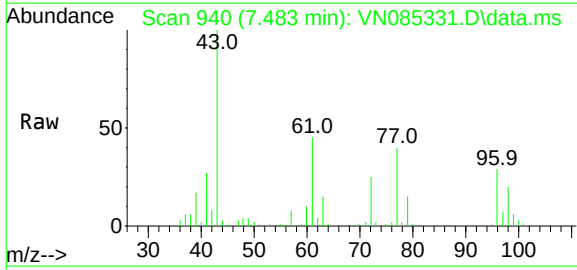
72 24.6 19.6 29.4

Manual Integrations

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Supervised By :Mahesh Dadoda 12/30/2024



#26

2,2-Dichloropropane

Concen: 18.943 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085331.D

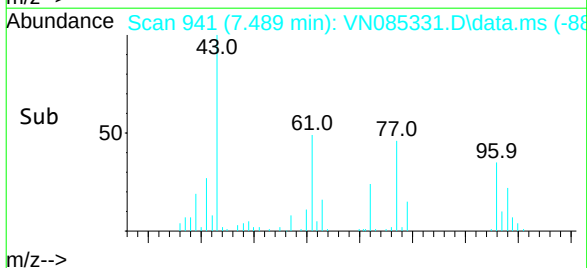
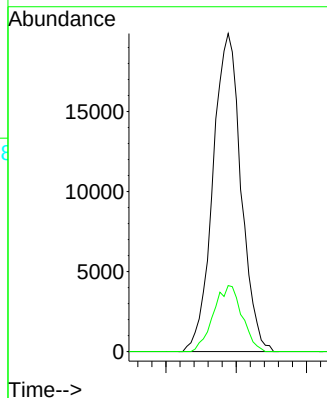
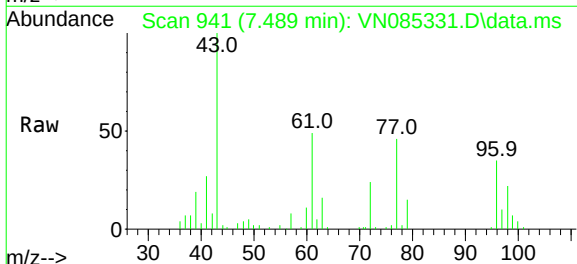
Acq: 27 Dec 2024 17:30

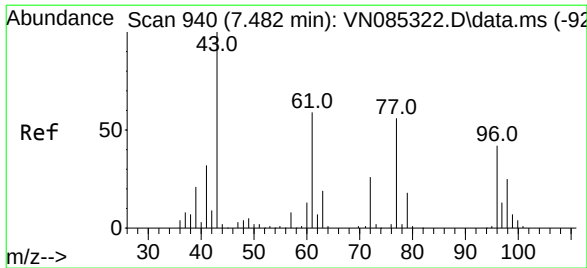
Tgt Ion: 77 Resp: 55298

Ion Ratio Lower Upper

77 100

97 21.1 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 19.575 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 96 Resp: 38491

Ion Ratio Lower Upper

96 100

61 152.7 0.0 296.4

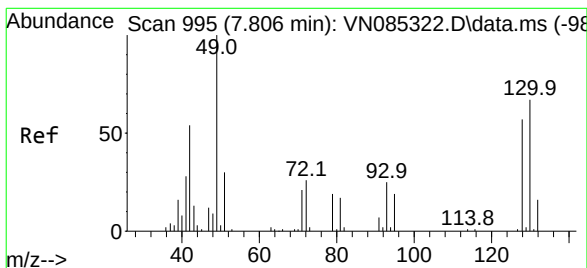
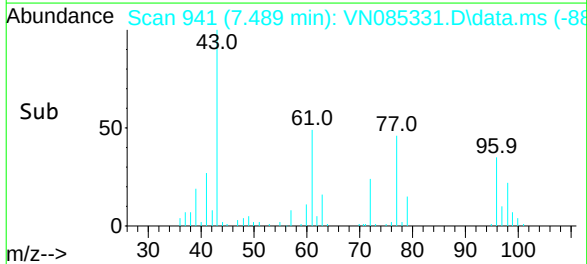
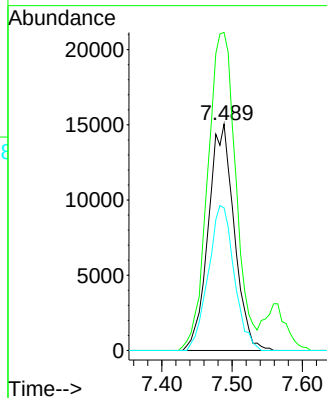
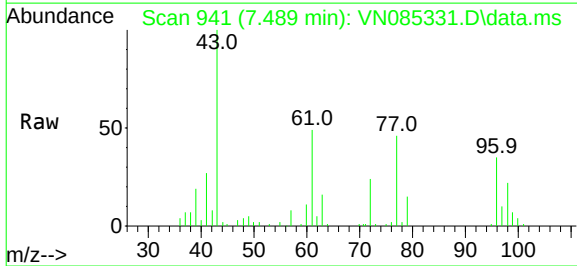
98 64.0 0.0 124.2

Manual Integrations

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Supervised By :Mahesh Dadoda 12/30/2024



#28

Bromochloromethane

Concen: 20.342 ug/l

RT: 7.812 min Scan# 996

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

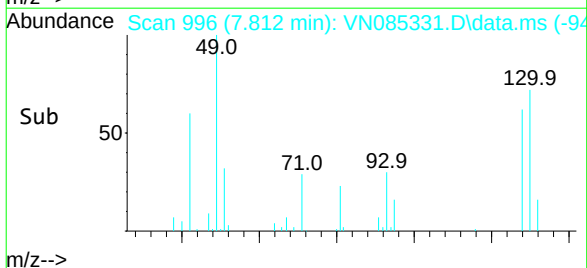
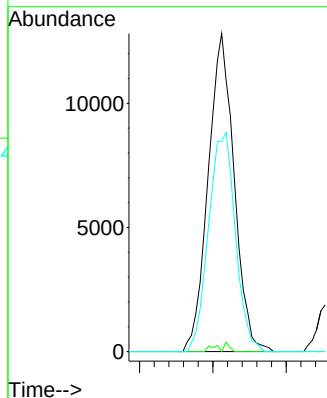
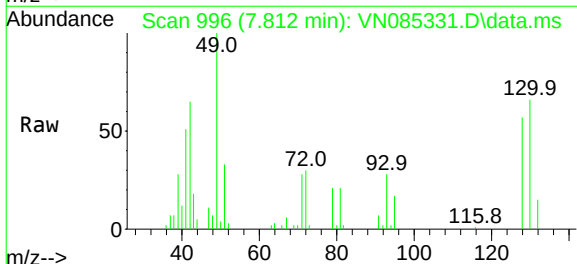
Tgt Ion: 49 Resp: 31497

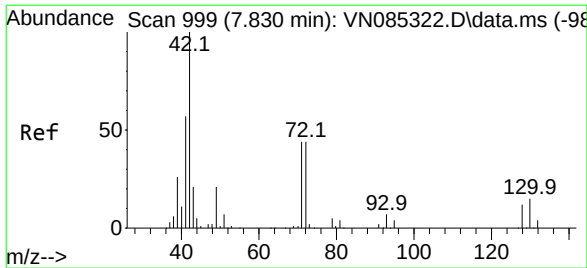
Ion Ratio Lower Upper

49 100

129 0.6 0.0 2.0

130 71.0 0.0 0.0#





#29

Tetrahydrofuran

Concen: 114.648 ug/l

RT: 7.836 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 42 Resp: 77549

Ion Ratio Lower Upper

42 100

72 44.3 35.1 52.7

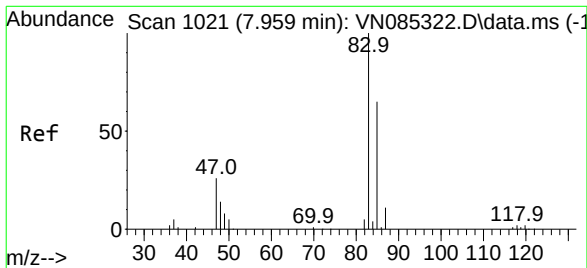
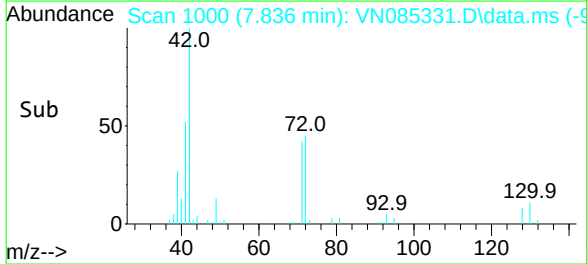
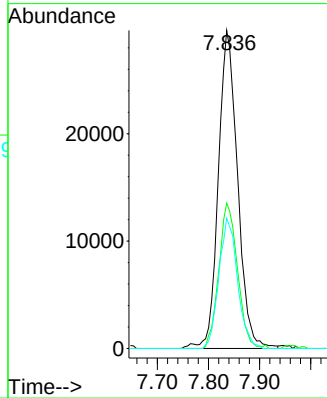
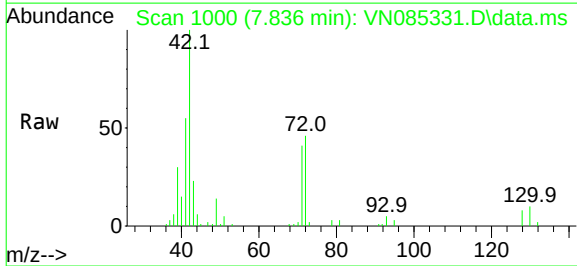
71 39.6 33.4 50.0

Manual Integrations

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Supervised By :Mahesh Dadoda 12/30/2024



#30

Chloroform

Concen: 19.116 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085331.D

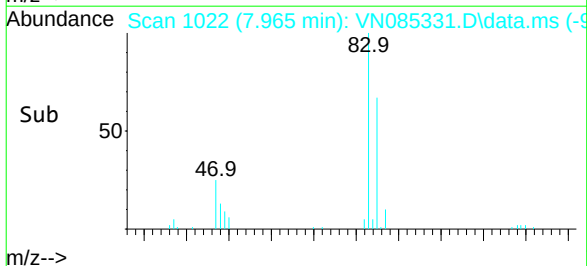
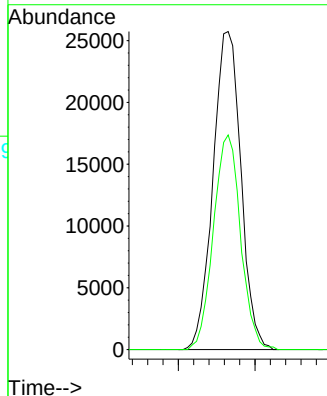
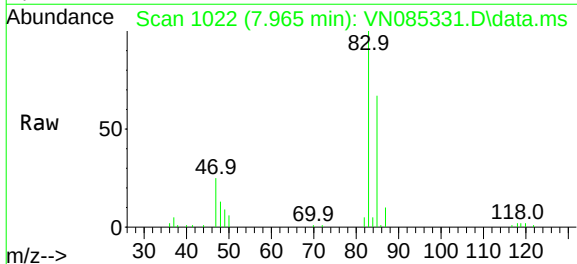
Acq: 27 Dec 2024 17:30

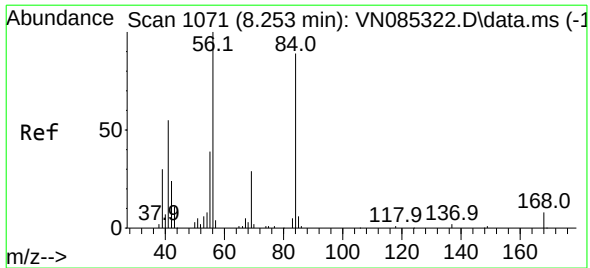
Tgt Ion: 83 Resp: 65160

Ion Ratio Lower Upper

83 100

85 67.5 52.0 78.0





#31

Cyclohexane

Concen: 17.744 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 56 Resp: 53985

Ion Ratio Lower Upper

56 100

69 31.4 23.4 35.0

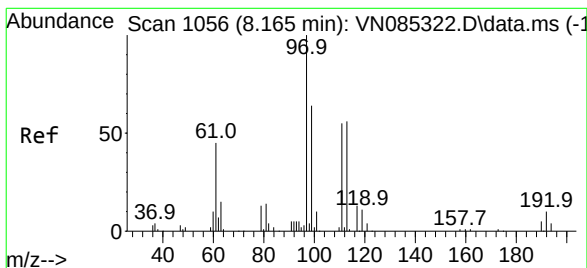
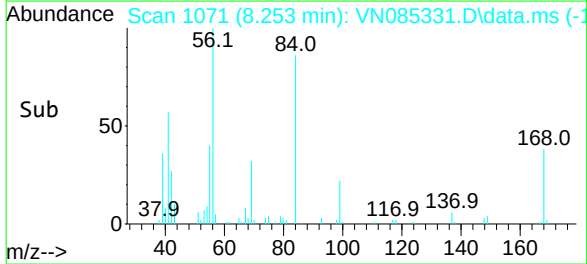
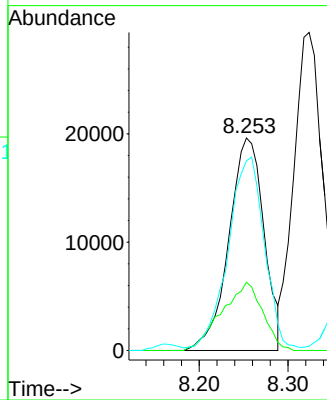
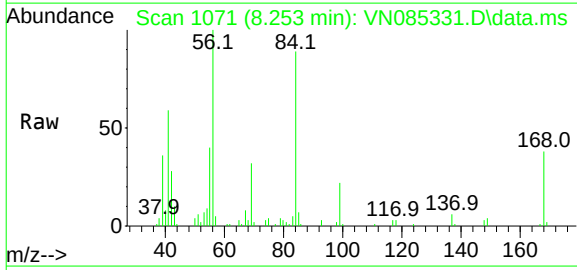
84 87.4 71.0 106.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#32

1,1,1-Trichloroethane

Concen: 18.160 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

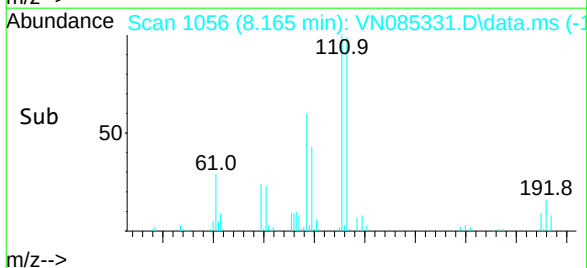
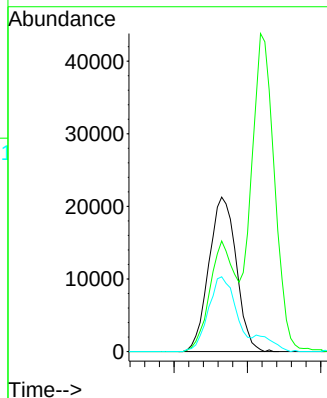
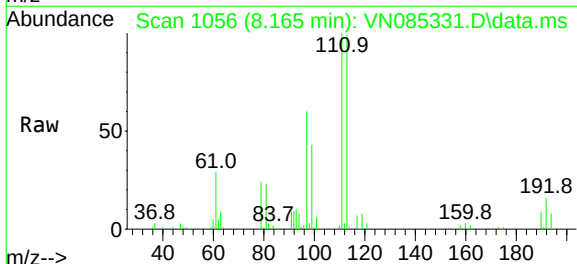
Tgt Ion: 97 Resp: 55283

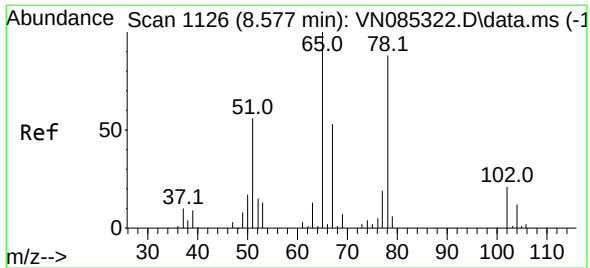
Ion Ratio Lower Upper

97 100

99 65.8 53.3 79.9

61 49.3 39.6 59.4





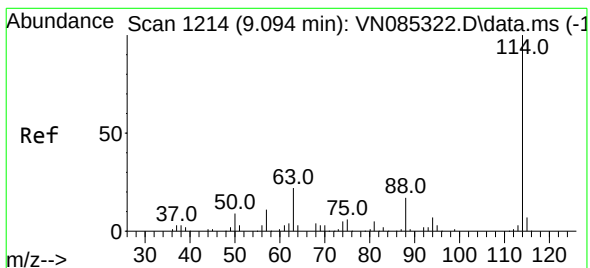
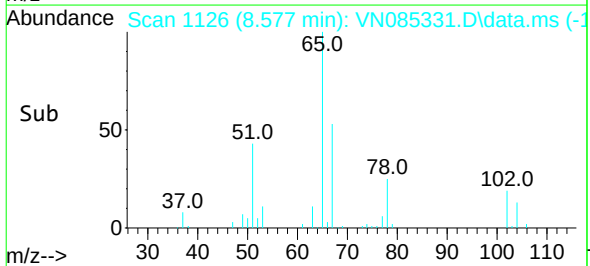
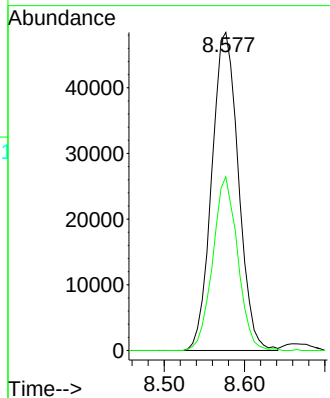
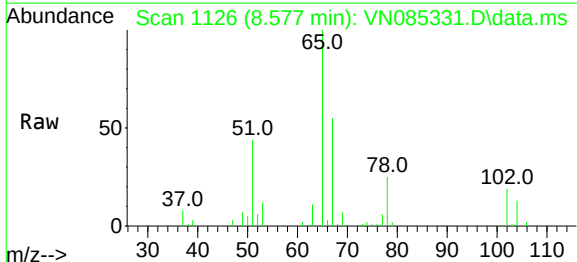
#33
1,2-Dichloroethane-d4
Concen: 54.248 ug/l
RT: 8.577 min Scan# 1116
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBSD01

Tgt Ion: 65 Resp: 111665
Ion Ratio Lower Upper
65 100
67 50.9 0.0 104.0

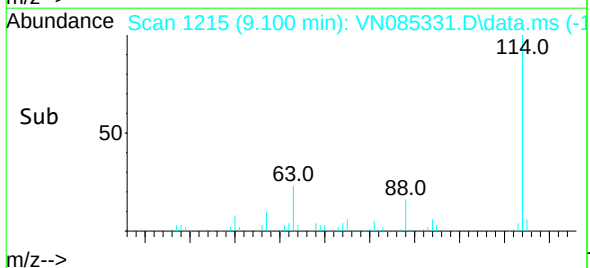
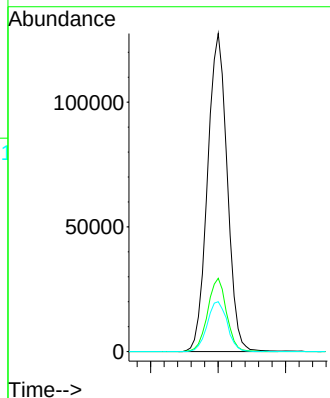
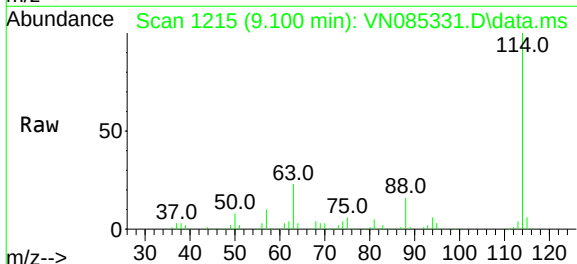
Manual Integrations
APPROVED

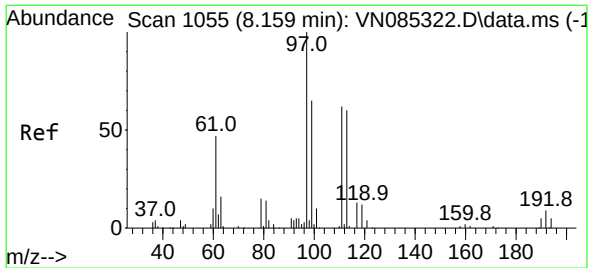
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

Tgt Ion:114 Resp: 258119
Ion Ratio Lower Upper
114 100
63 23.1 0.0 43.4
88 15.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.827 ug/l

RT: 8.165 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 113 Resp: 81846

Ion Ratio Lower Upper

113 100

111 105.0 80.5 120.7

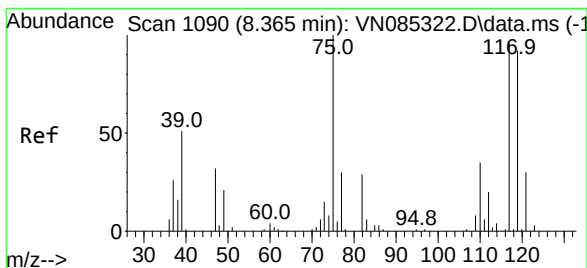
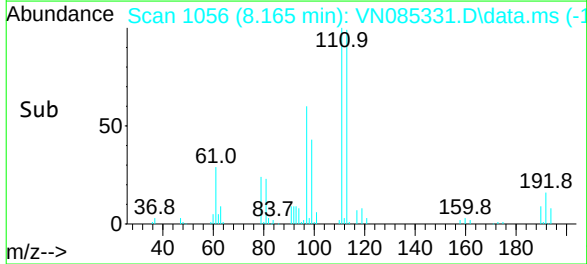
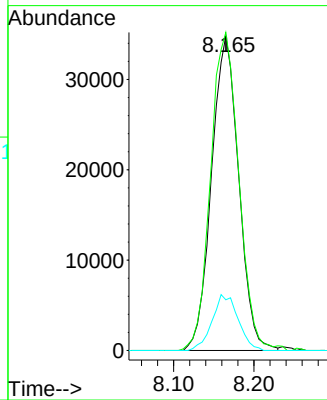
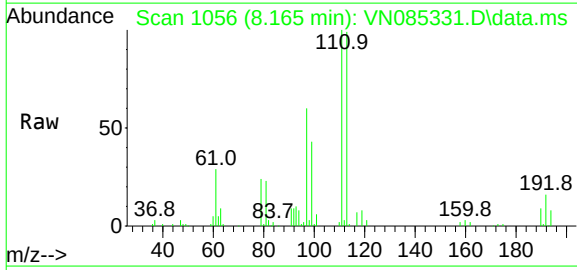
192 17.0 12.9 19.3

Manual Integrations

APPROVED

Reviewed By : John Carlone 12/30/2024

Supervised By : Mahesh Dadoda 12/30/2024



#36

1,1-Dichloropropene

Concen: 19.050 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

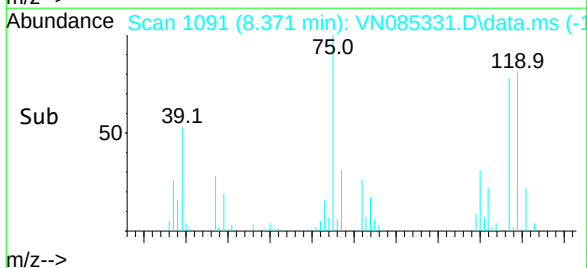
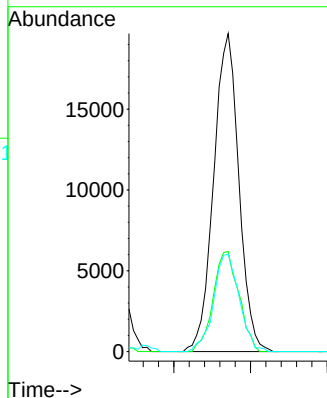
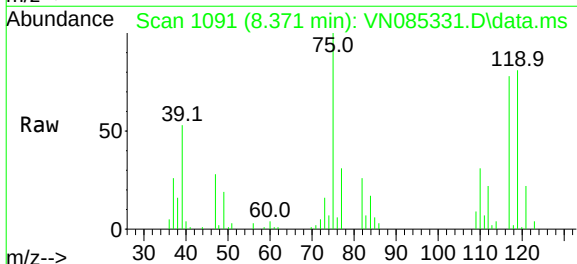
Tgt Ion: 75 Resp: 44914

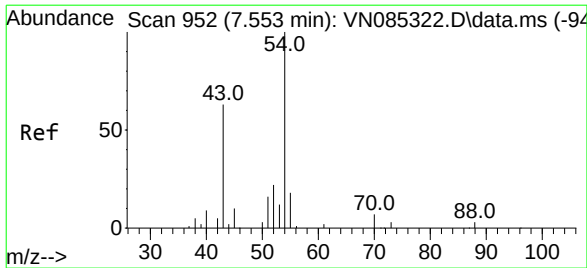
Ion Ratio Lower Upper

75 100

110 32.1 16.6 49.8

77 31.2 24.3 36.5





#37

Ethyl Acetate

Concen: 21.977 ug/l

RT: 7.559 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

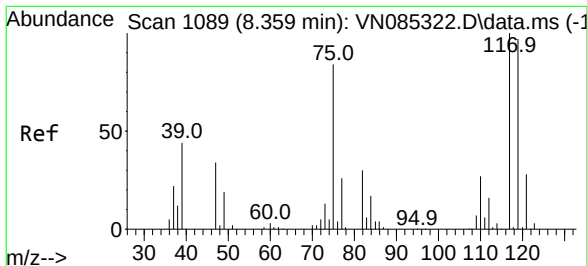
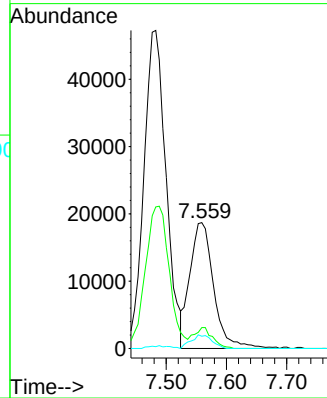
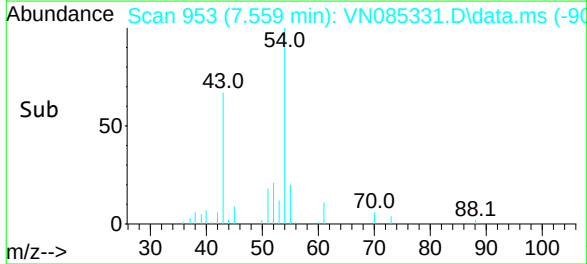
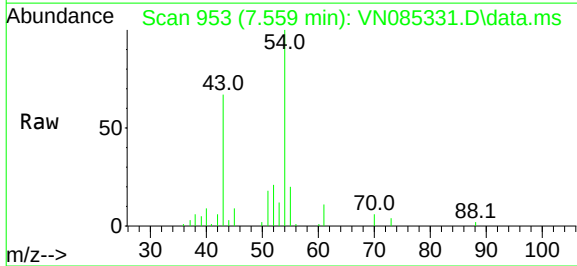
ClientSampleId :

VN1227WBSD01

Tgt Ion:	43	Resp:	51502
Ion	Ratio	Lower	Upper
43	100		
61	13.0	10.4	15.6
70	9.4	8.2	12.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#38

Carbon Tetrachloride

Concen: 19.305 ug/l

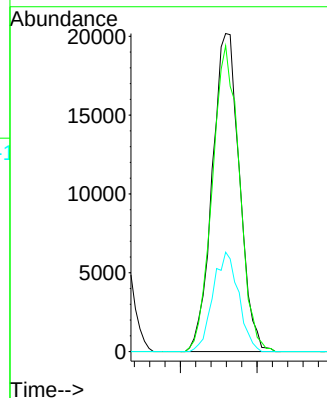
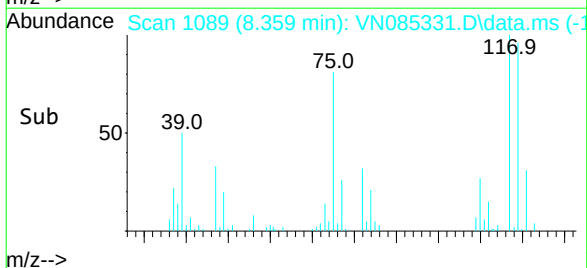
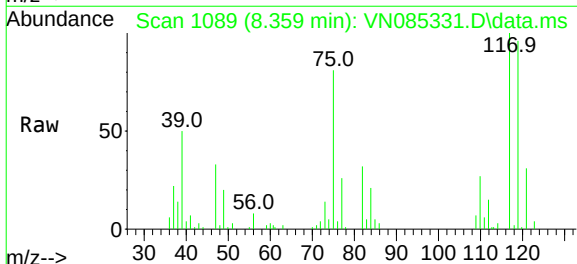
RT: 8.359 min Scan# 1089

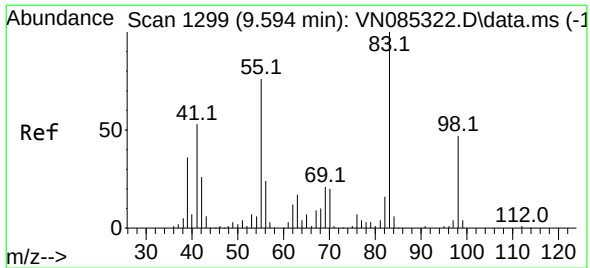
Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Tgt Ion:	117	Resp:	49612
Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.8	116.6
121	31.3	22.5	33.7





#39

Methylcyclohexane

Concen: 18.807 ug/l

RT: 9.600 min Scan# 13

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 83 Resp: 46006

Ion Ratio Lower Upper

83 100

55 74.0 60.7 91.1

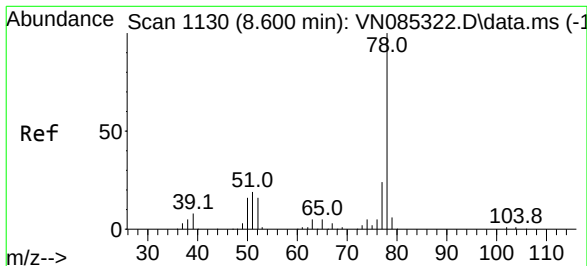
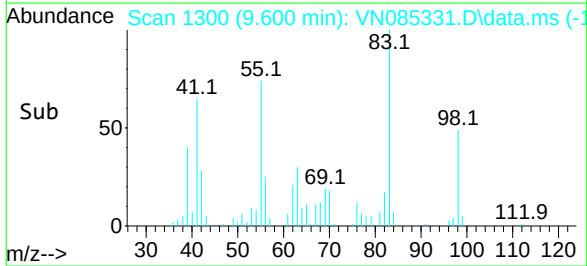
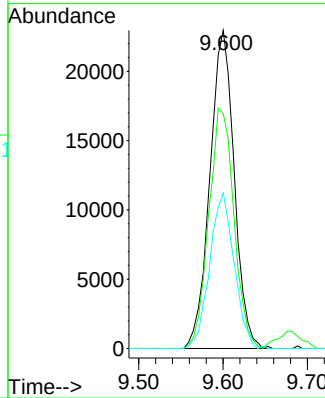
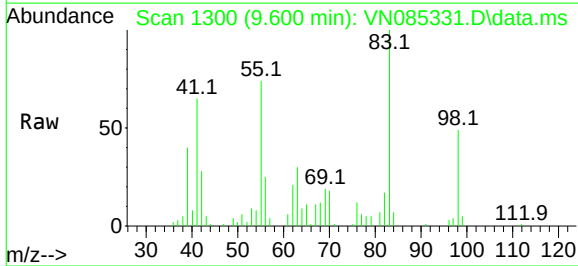
98 48.9 37.7 56.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#40

Benzene

Concen: 19.501 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085331.D

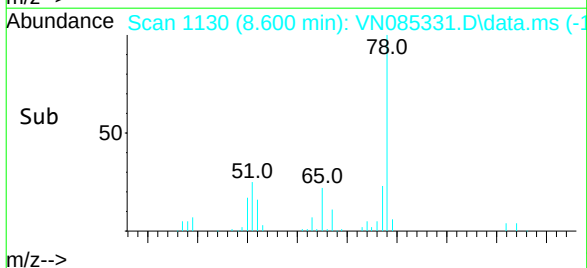
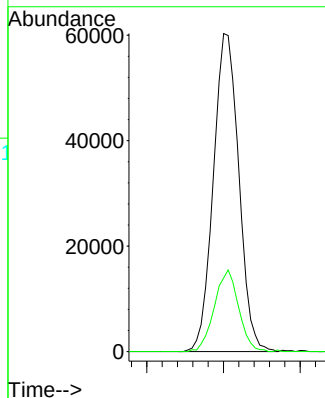
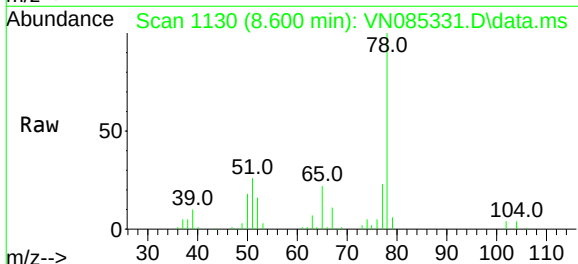
Acq: 27 Dec 2024 17:30

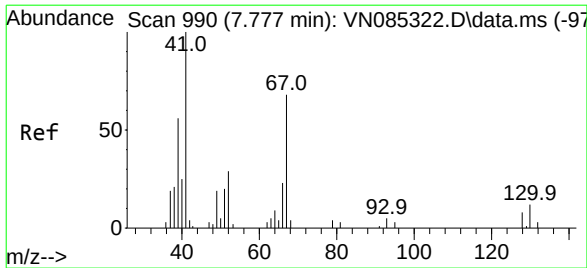
Tgt Ion: 78 Resp: 139012

Ion Ratio Lower Upper

78 100

77 23.1 19.0 28.4





#41

Methacrylonitrile

Concen: 20.971 ug/l

RT: 7.777 min Scan# 99

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 41 Resp: 25169

Ion Ratio Lower Upper

41 100

39 57.1 45.8 68.8

67 75.1 57.1 85.7

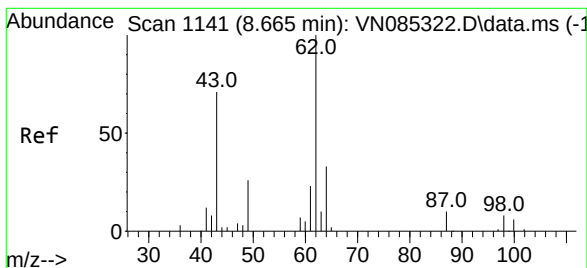
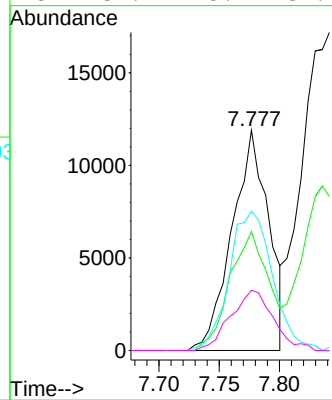
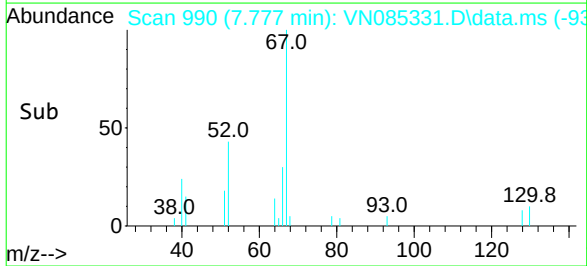
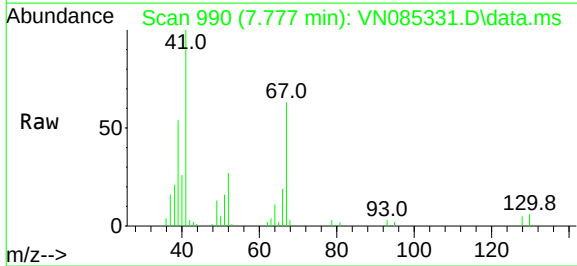
52 31.9 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#42

1,2-Dichloroethane

Concen: 19.684 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.006 min

Lab File: VN085331.D

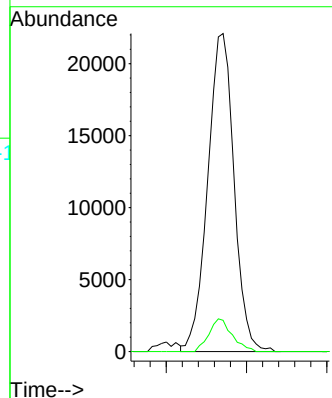
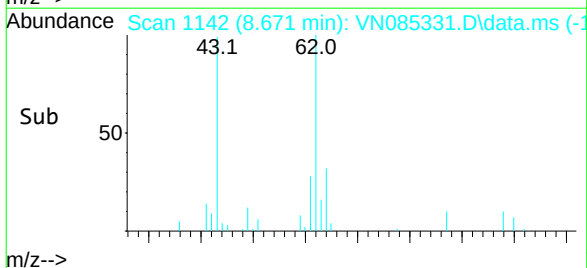
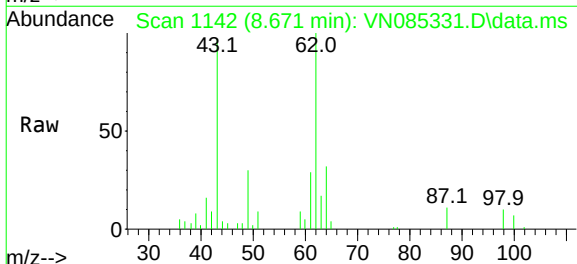
Acq: 27 Dec 2024 17:30

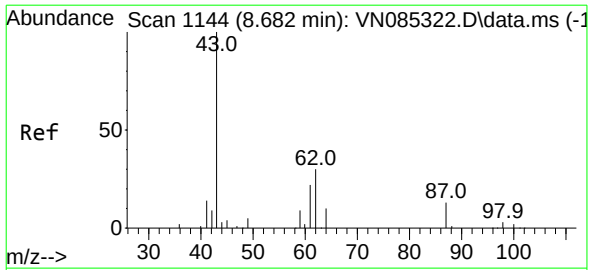
Tgt Ion: 62 Resp: 50307

Ion Ratio Lower Upper

62 100

98 9.1 0.0 17.6





#43

Isopropyl Acetate

Concen: 21.225 ug/l

RT: 8.688 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 43 Resp: 81902

Ion Ratio Lower Upper

43 100

61 25.3 20.8 31.2

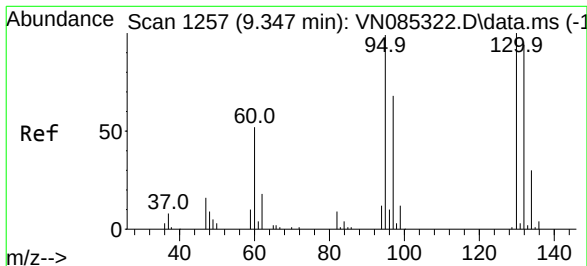
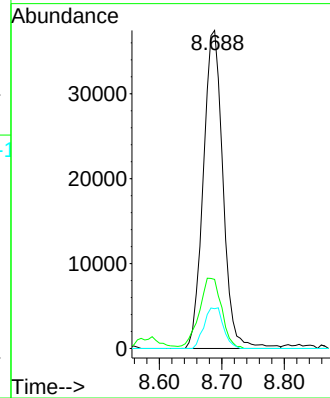
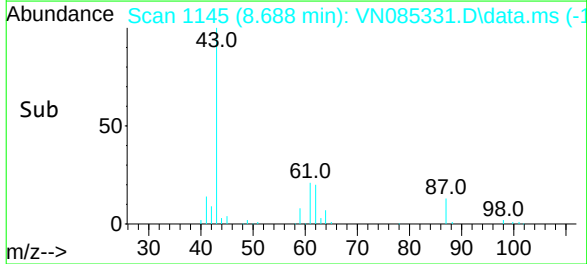
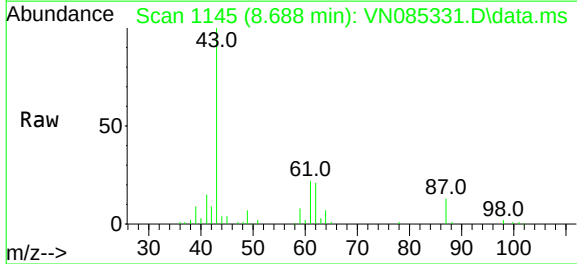
87 12.6 10.2 15.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#44

Trichloroethene

Concen: 18.479 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. 0.000 min

Lab File: VN085331.D

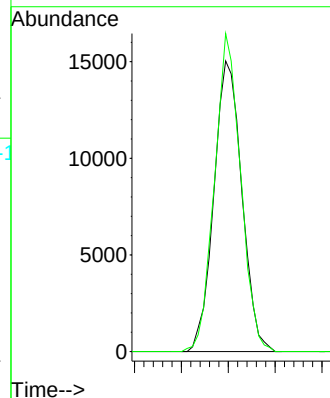
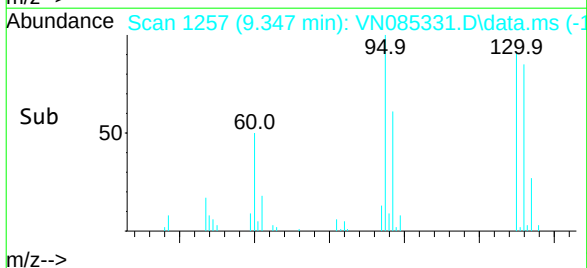
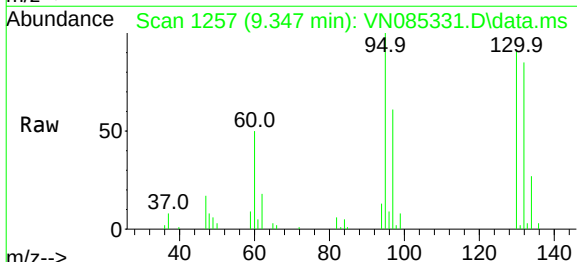
Acq: 27 Dec 2024 17:30

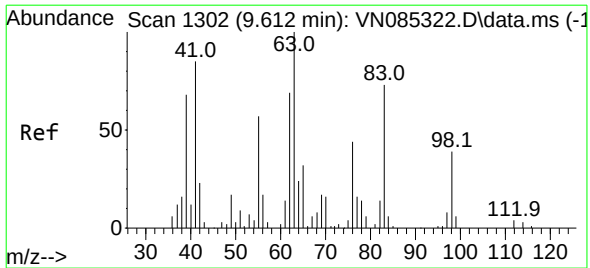
Tgt Ion:130 Resp: 31187

Ion Ratio Lower Upper

130 100

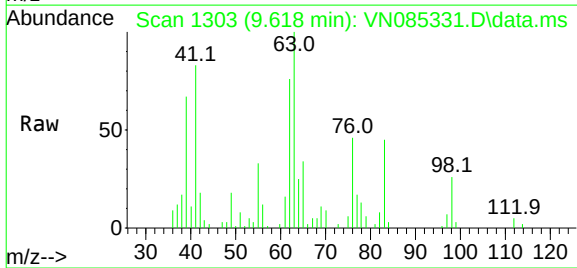
95 109.4 0.0 197.8





#45
1,2-Dichloropropane
Concen: 19.896 ug/l
RT: 9.618 min Scan# 1302
Delta R.T. 0.006 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

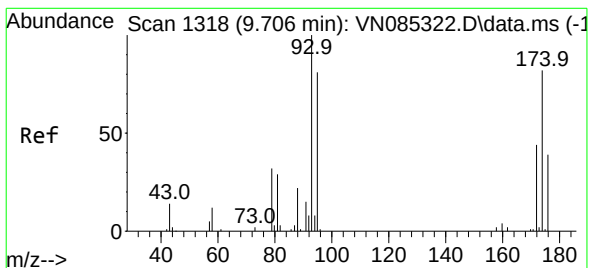
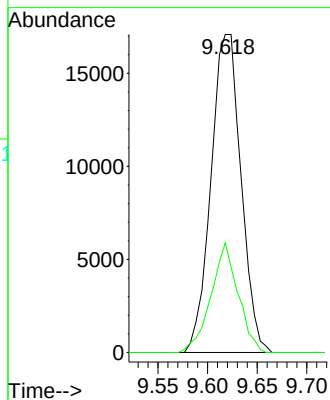
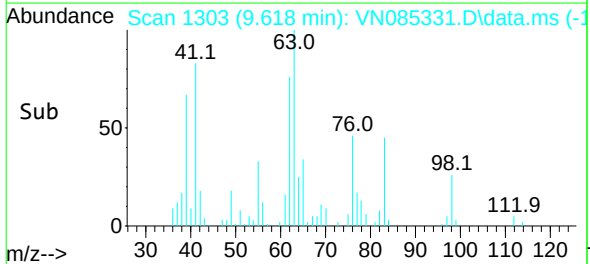
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBSD01



Tgt Ion: 63 Resp: 36004
Ion Ratio Lower Upper
63 100
65 34.5 25.5 38.3

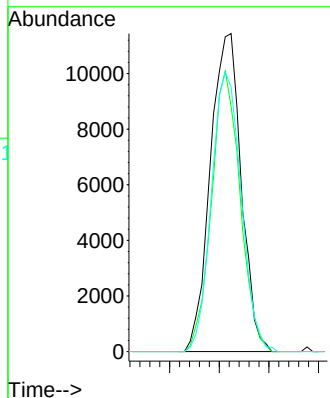
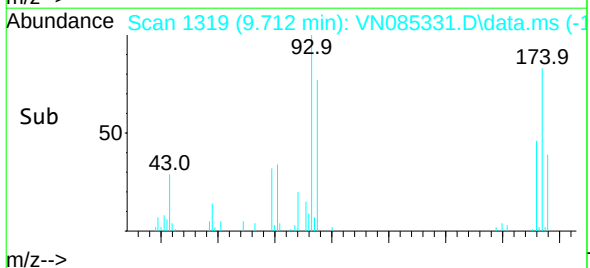
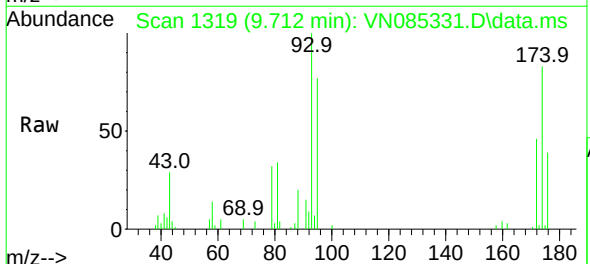
Manual Integrations
APPROVED

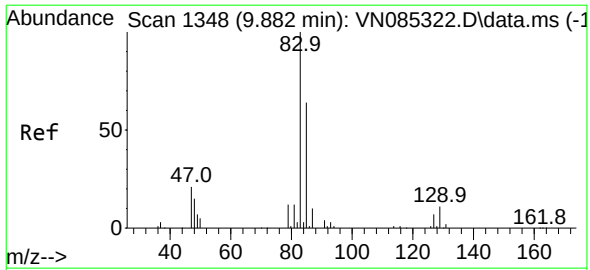
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#46
Dibromomethane
Concen: 19.639 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.006 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

Tgt Ion: 93 Resp: 24716
Ion Ratio Lower Upper
93 100
95 81.7 65.3 97.9
174 84.8 66.4 99.6





#47

Bromodichloromethane

Concen: 20.090 ug/l

RT: 9.888 min Scan# 1348

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

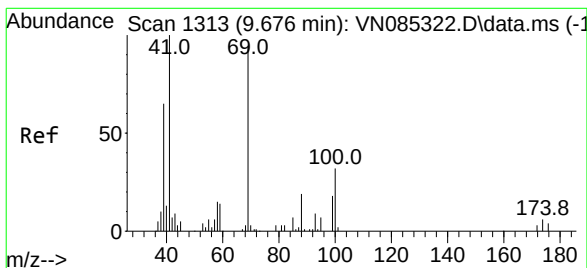
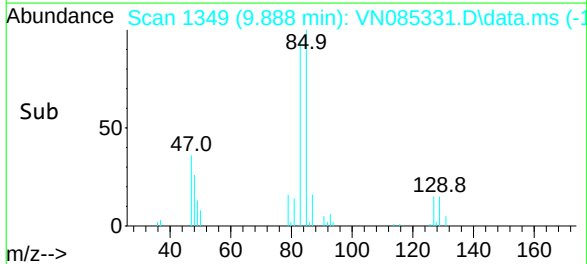
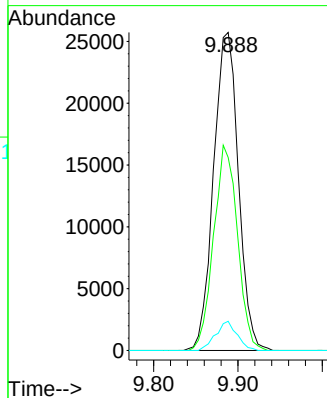
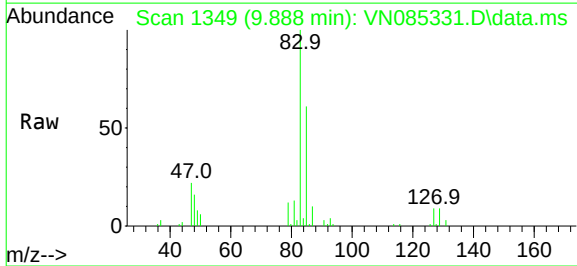
Tgt Ion:	83	Resp:	52551
Ion	Ratio	Lower	Upper
83	100		
85	60.7	51.0	76.4
127	9.2	5.8	8.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#48

Methyl methacrylate

Concen: 21.968 ug/l

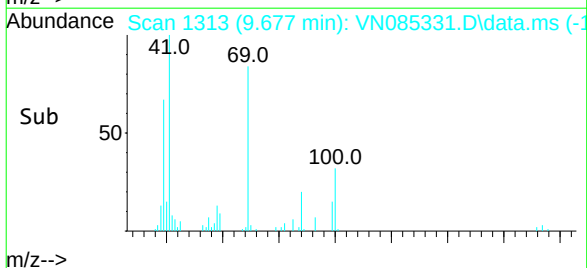
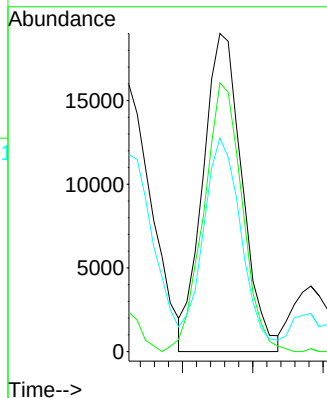
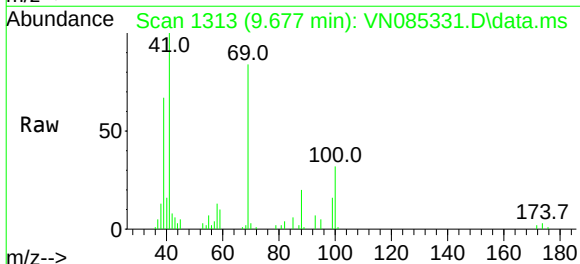
RT: 9.677 min Scan# 1313

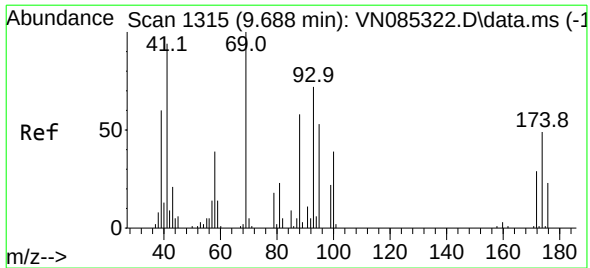
Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Tgt Ion:	41	Resp:	36782
Ion	Ratio	Lower	Upper
41	100		
69	83.0	67.7	101.5
39	66.1	51.2	76.8





#49

1,4-Dioxane

Concen: 541.163 ug/l

RT: 9.694 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VN085331.D

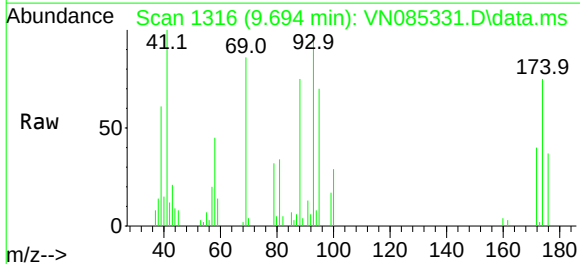
Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01



Tgt Ion: 88 Resp: 13671

Ion Ratio Lower Upper

88 100

43 27.1 22.1 33.1

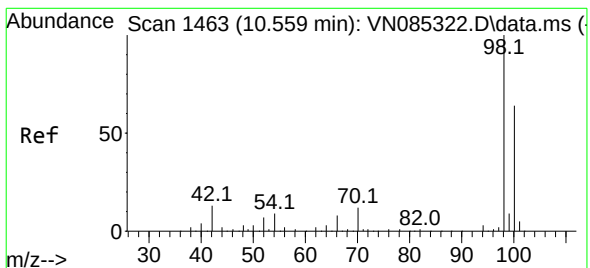
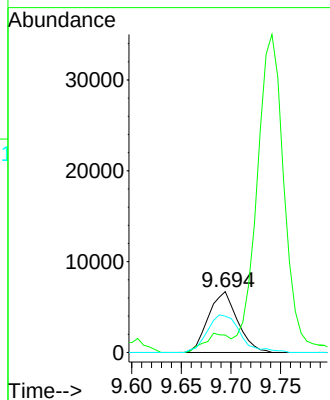
58 70.4 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#50

Toluene-d8

Concen: 51.858 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085331.D

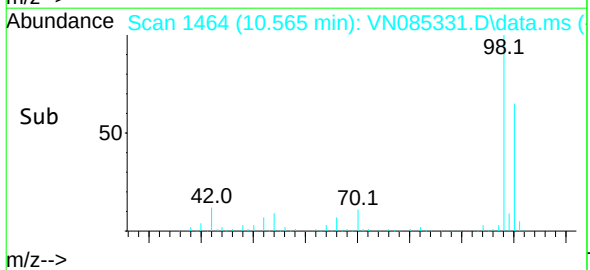
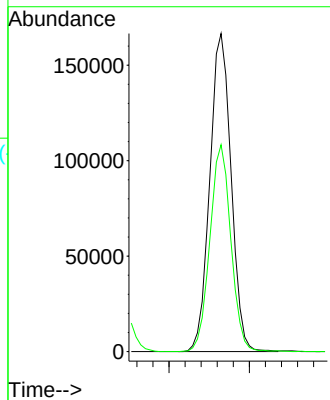
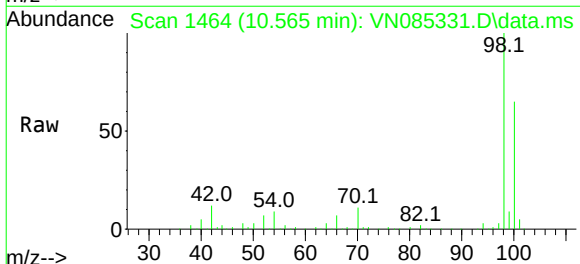
Acq: 27 Dec 2024 17:30

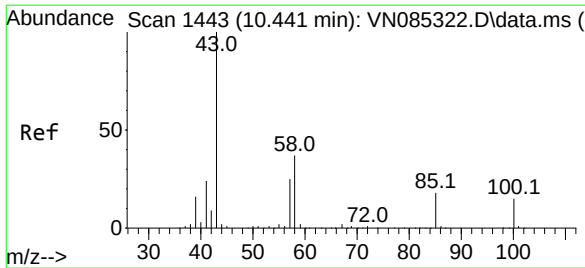
Tgt Ion: 98 Resp: 306433

Ion Ratio Lower Upper

98 100

100 64.2 51.5 77.3





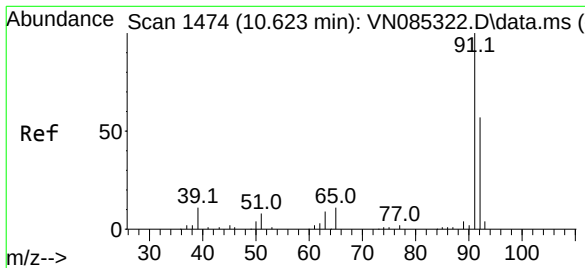
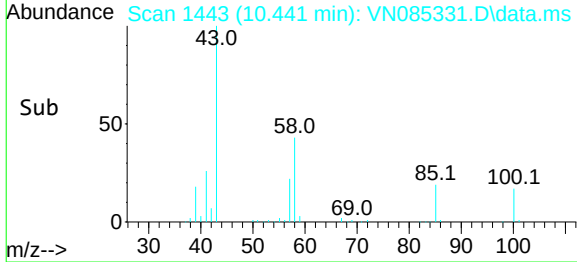
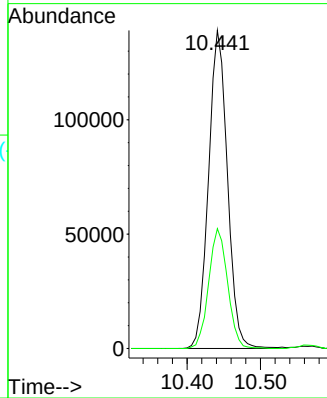
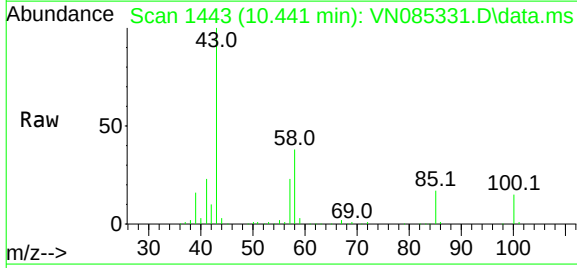
#51
4-Methyl-2-Pentanone
Concen: 114.650 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBSD01

Tgt Ion: 43 Resp: 248614
Ion Ratio Lower Upper
43 100
58 37.7 30.3 45.5

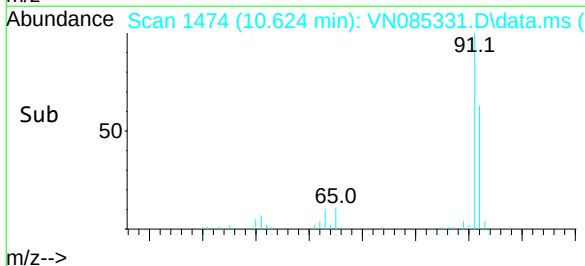
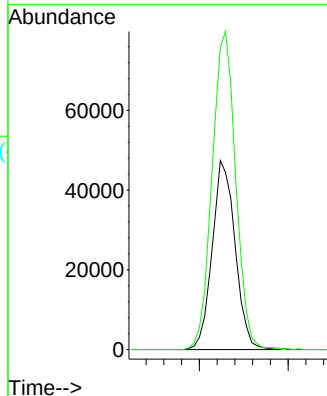
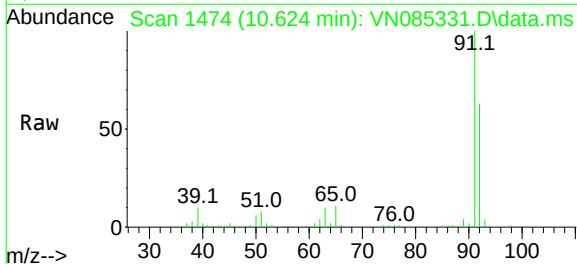
Manual Integrations
APPROVED

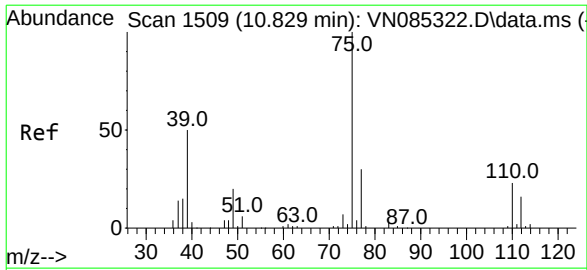
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#52
Toluene
Concen: 20.033 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

Tgt Ion: 92 Resp: 85029
Ion Ratio Lower Upper
92 100
91 173.5 140.2 210.4





#53

t-1,3-Dichloropropene

Concen: 20.101 ug/l

RT: 10.835 min Scan# 1509

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 75 Resp: 51708

Ion Ratio Lower Upper

75 100

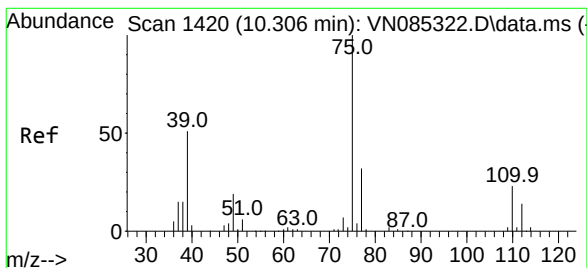
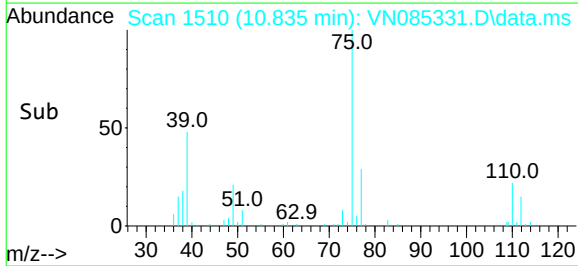
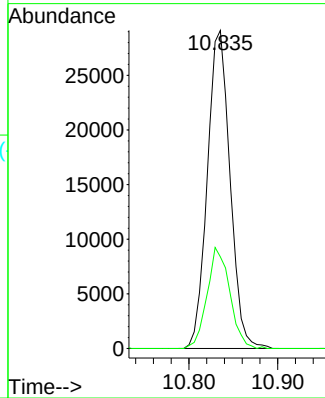
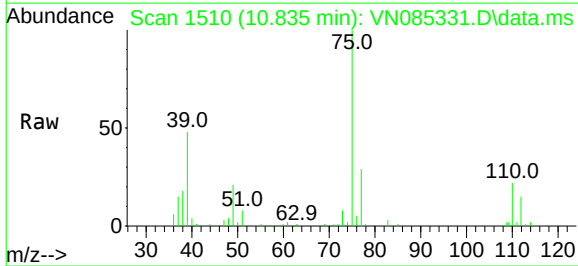
77 28.8 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#54

cis-1,3-Dichloropropene

Concen: 20.042 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

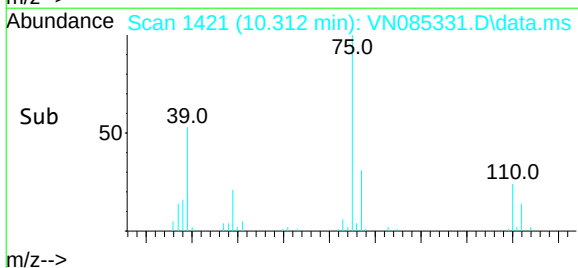
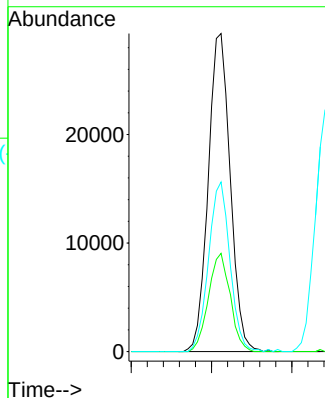
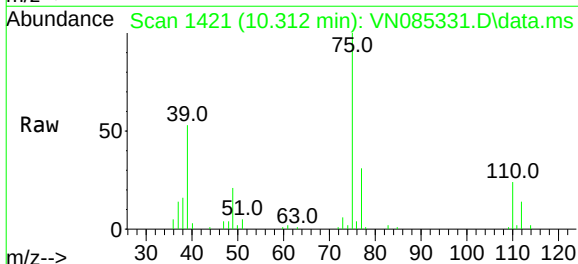
Tgt Ion: 75 Resp: 55748

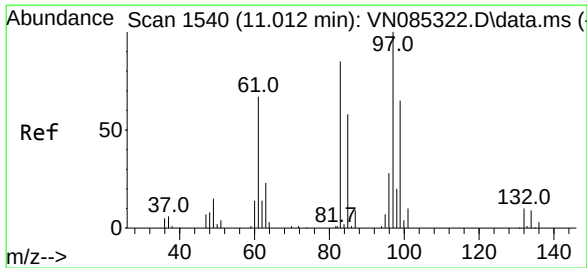
Ion Ratio Lower Upper

75 100

77 30.9 25.5 38.3

39 53.3 40.5 60.7





#55

1,1,2-Trichloroethane

Concen: 20.437 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 97 Resp: 32750

Ion Ratio Lower Upper

97 100

83 88.5 67.7 101.5

85 62.0 46.2 69.4

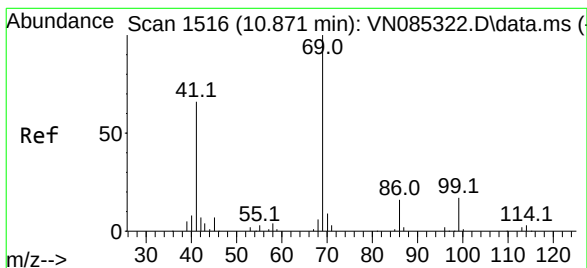
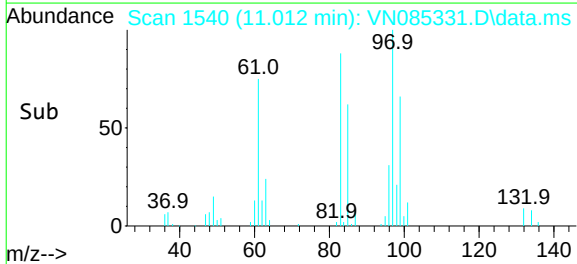
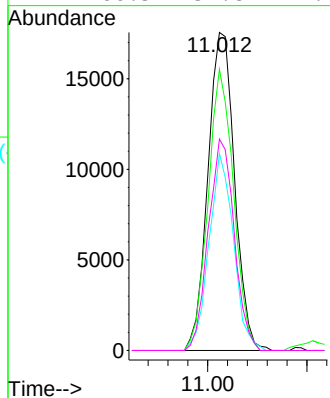
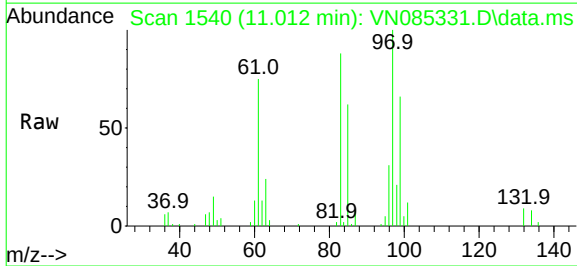
99 66.5 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#56

Ethyl methacrylate

Concen: 21.484 ug/l

RT: 10.871 min Scan# 1516

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

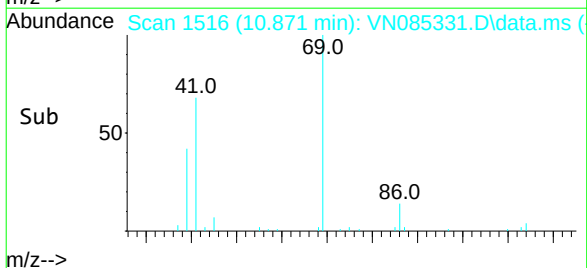
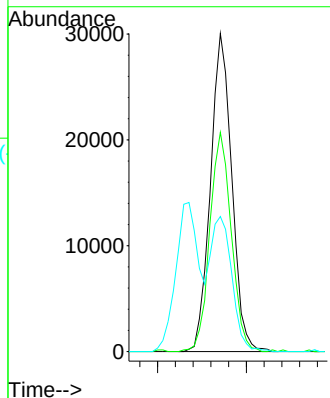
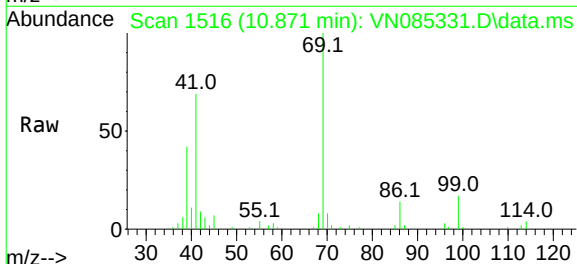
Tgt Ion: 69 Resp: 50141

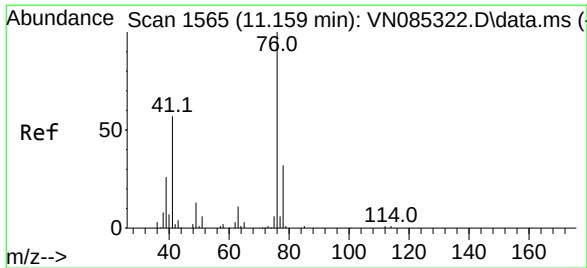
Ion Ratio Lower Upper

69 100

41 69.3 54.3 81.5

39 42.8 32.0 48.0





#57

1,3-Dichloropropane

Concen: 20.463 ug/l

RT: 11.159 min Scan# 1565

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 76 Resp: 57554

Ion Ratio Lower Upper

76 100

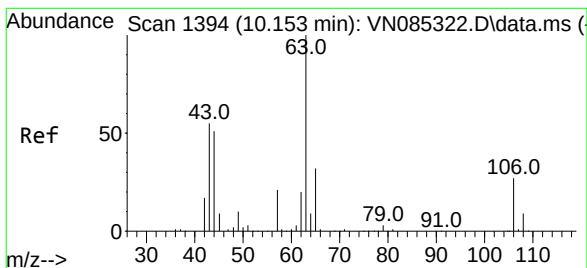
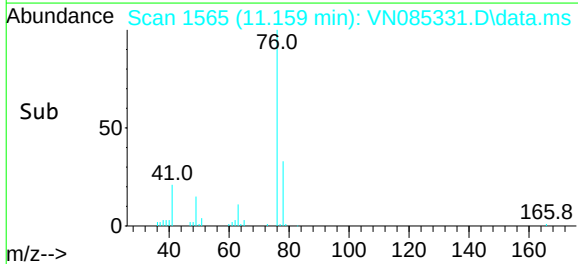
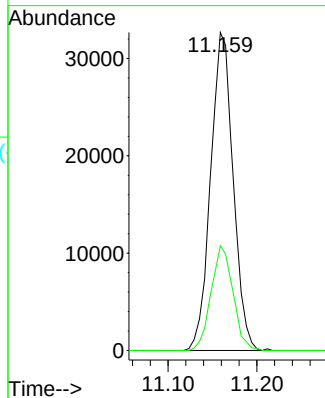
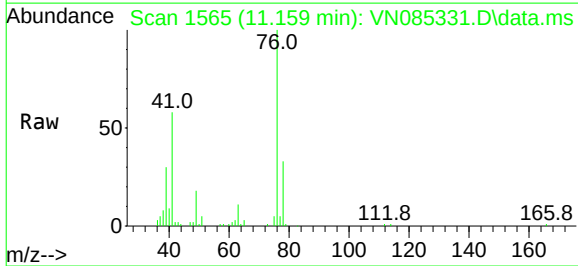
78 32.0 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#58

2-Chloroethyl Vinyl ether

Concen: 116.170 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VN085331.D

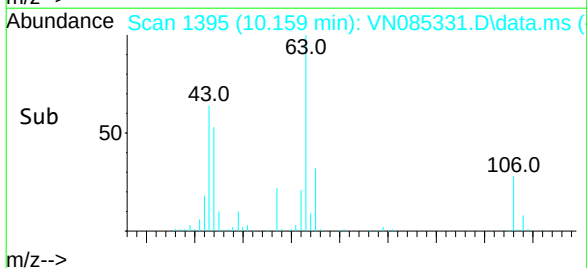
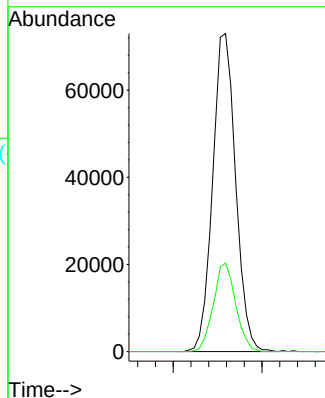
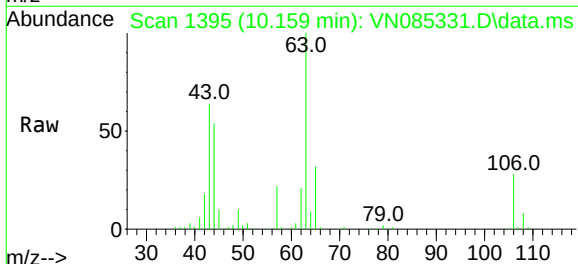
Acq: 27 Dec 2024 17:30

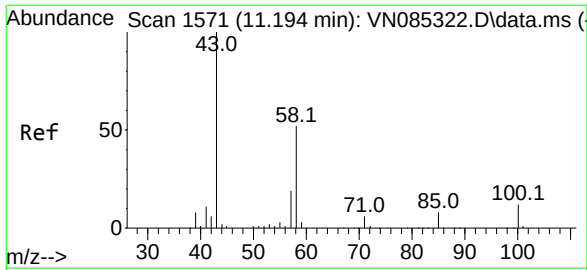
Tgt Ion: 63 Resp: 131176

Ion Ratio Lower Upper

63 100

106 27.0 22.1 33.1





#59

2-Hexanone

Concen: 117.338 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 43 Resp: 176533

Ion Ratio Lower Upper

43 100

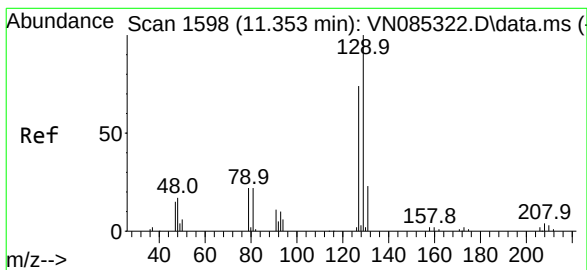
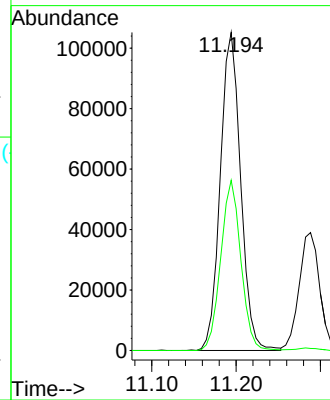
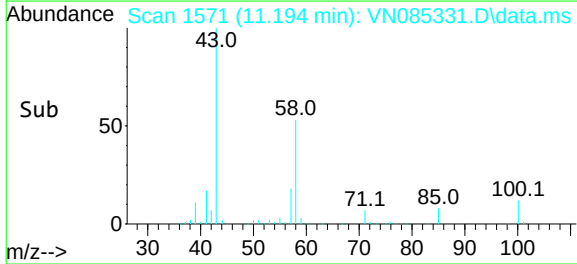
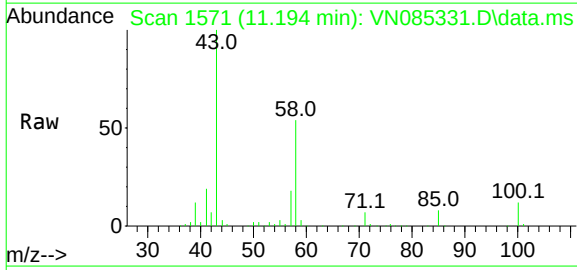
58 52.9 26.5 79.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#60

Dibromochloromethane

Concen: 20.483 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. 0.006 min

Lab File: VN085331.D

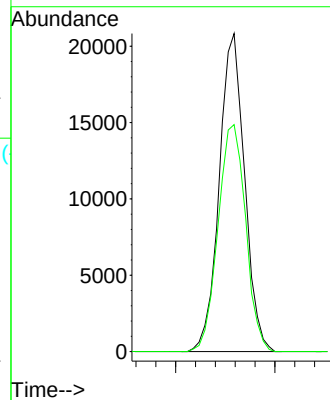
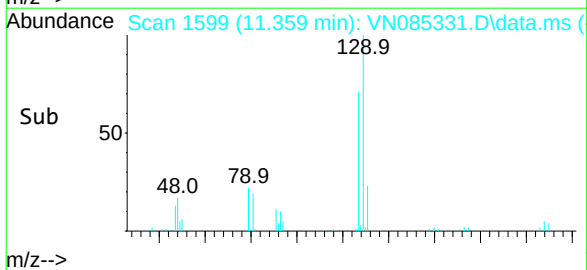
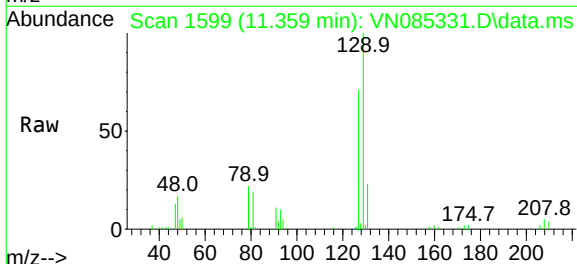
Acq: 27 Dec 2024 17:30

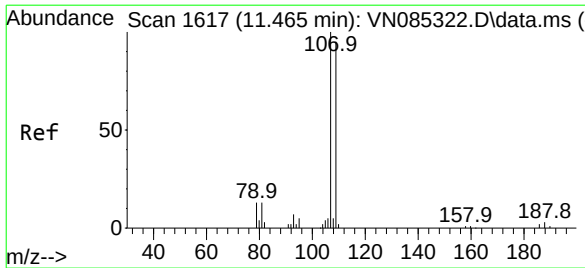
Tgt Ion:129 Resp: 36970

Ion Ratio Lower Upper

129 100

127 77.7 38.3 114.9





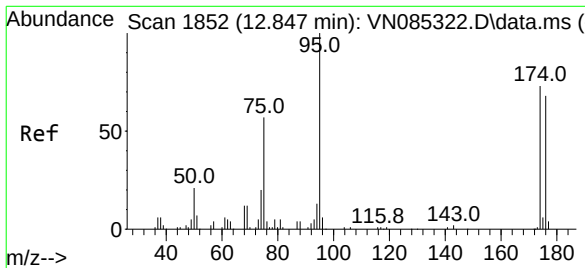
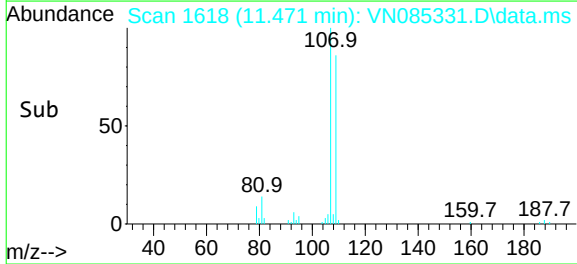
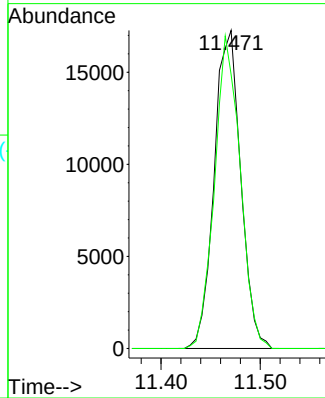
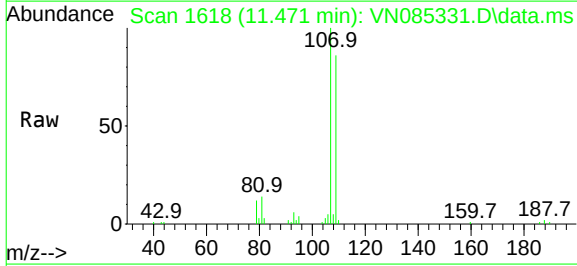
#61
1,2-Dibromoethane
Concen: 20.237 ug/l
RT: 11.471 min Scan# 1617
Delta R.T. 0.006 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBSD01

Tgt Ion: 107 Resp: 32084
Ion Ratio Lower Upper
107 100
109 95.5 74.9 112.3

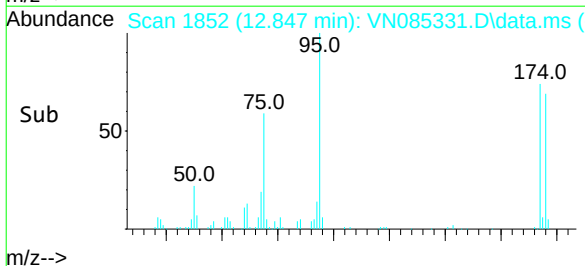
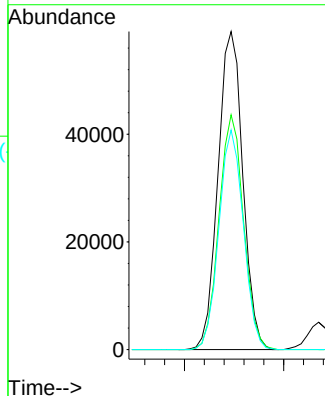
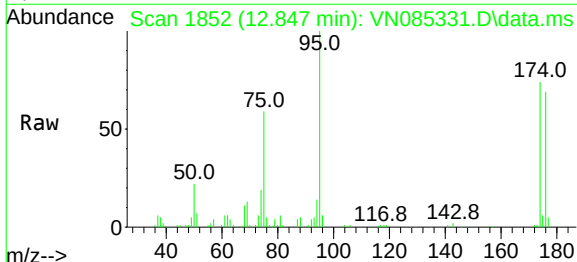
Manual Integrations
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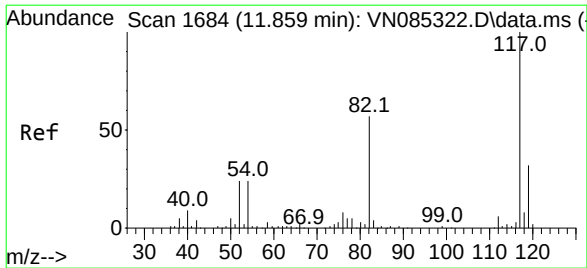
Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024



#62
4-Bromofluorobenzene
Concen: 52.322 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

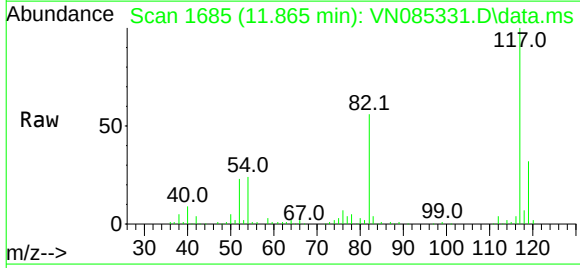
Tgt Ion: 95 Resp: 102680
Ion Ratio Lower Upper
95 100
174 73.1 0.0 143.2
176 68.1 0.0 135.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1684
Delta R.T. 0.006 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

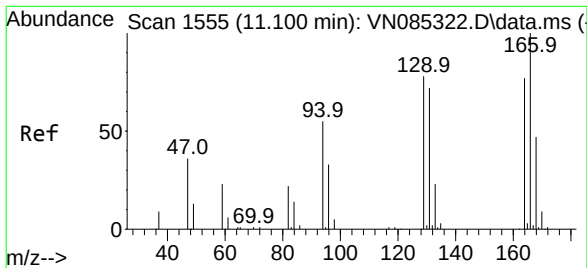
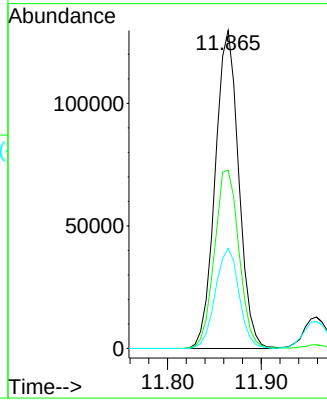
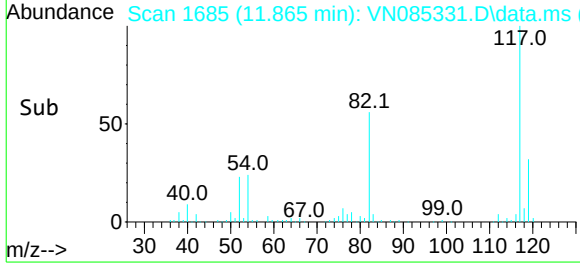
Instrument :
MSVOA_N
ClientSampleId :
VN1227WBSD01



Tgt Ion:117 Resp: 226359
Ion Ratio Lower Upper
117 100
82 56.1 45.7 68.5
119 31.5 25.8 38.8

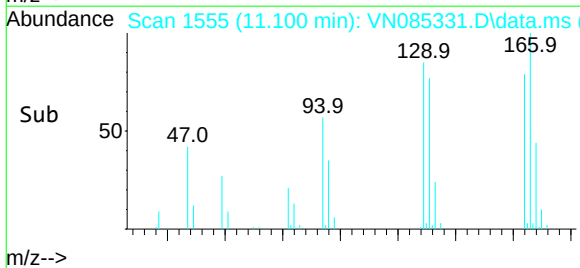
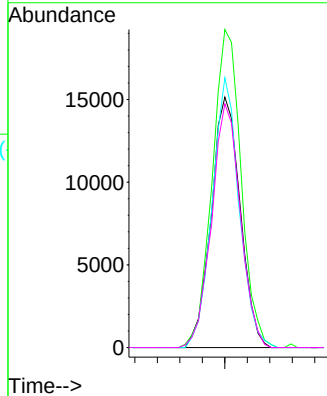
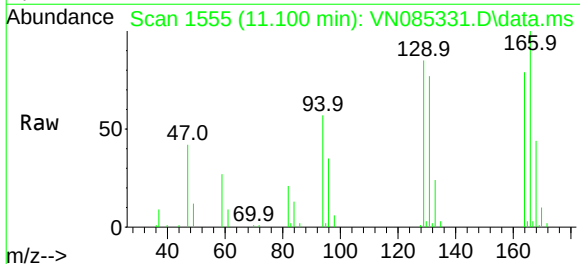
Manual Integrations
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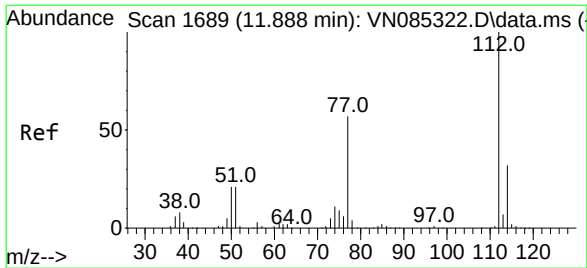
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#64
Tetrachloroethene
Concen: 18.911 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

Tgt Ion:164 Resp: 27124
Ion Ratio Lower Upper
164 100
166 127.0 104.0 156.0
129 107.7 81.3 121.9
131 97.3 75.0 112.6





#65

Chlorobenzene

Concen: 18.629 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion:112 Resp: 91123

Ion Ratio Lower Upper

112 100

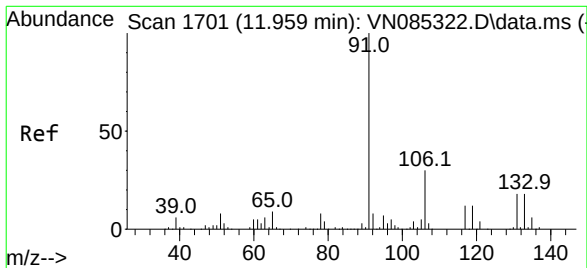
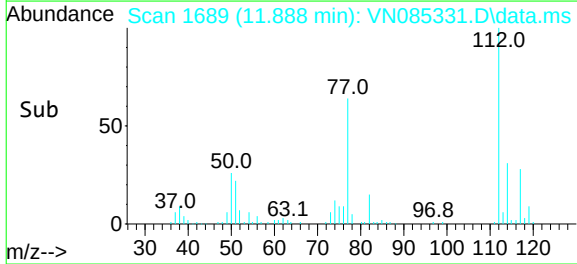
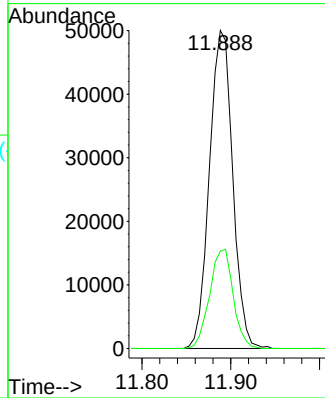
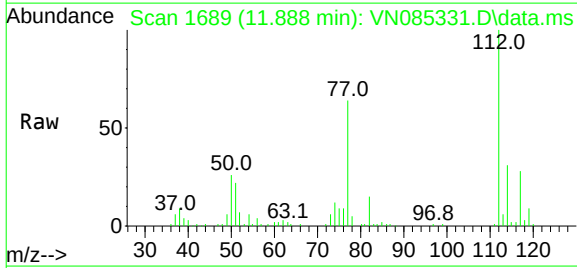
114 30.6 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#66

1,1,1,2-Tetrachloroethane

Concen: 19.325 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

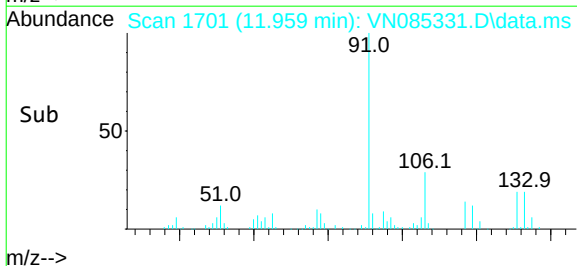
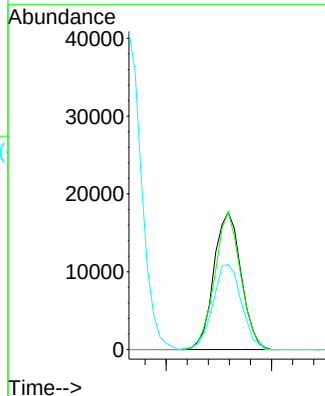
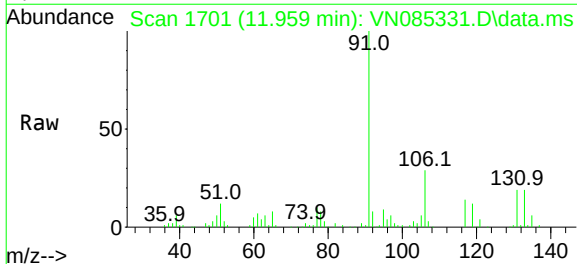
Tgt Ion:131 Resp: 31726

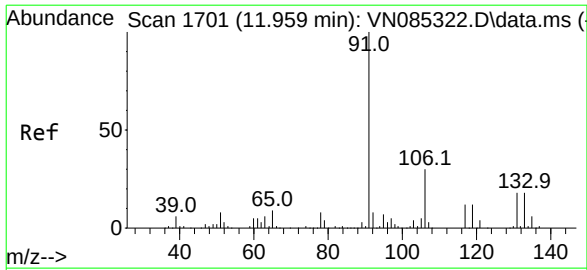
Ion Ratio Lower Upper

131 100

133 95.4 48.3 144.9

119 65.0 33.4 100.1





#67

Ethyl Benzene

Concen: 19.184 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 91 Resp: 156061

Ion Ratio Lower Upper

91 100

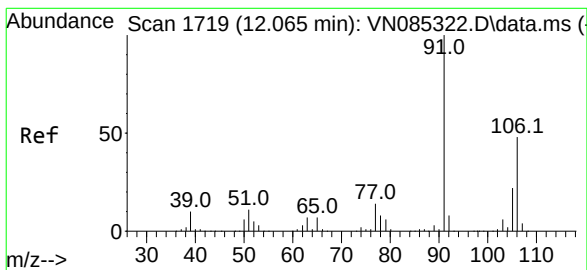
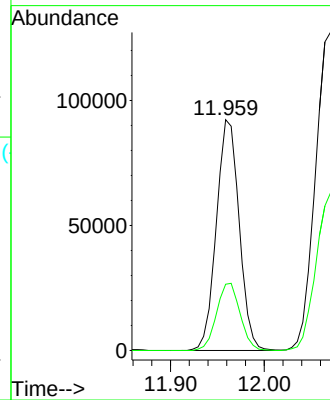
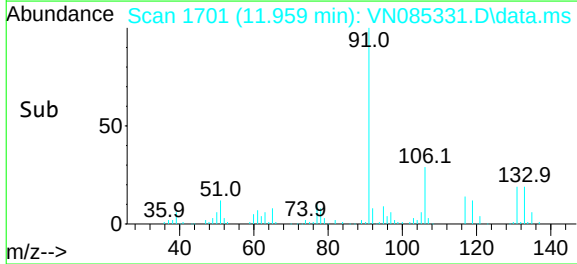
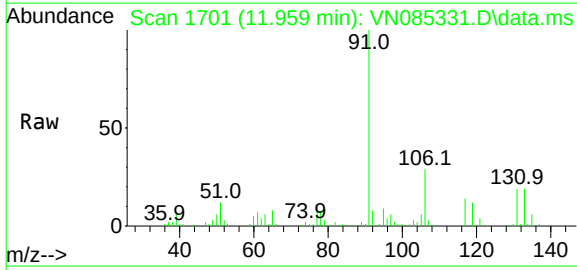
106 28.7 24.0 36.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#68

m/p-Xylenes

Concen: 40.244 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085331.D

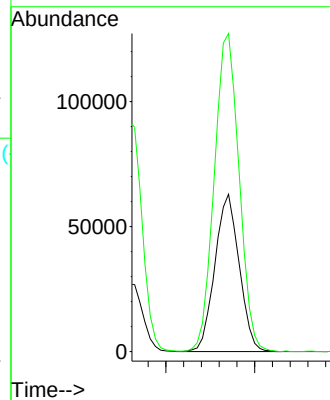
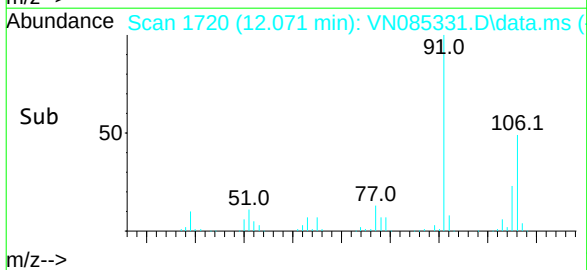
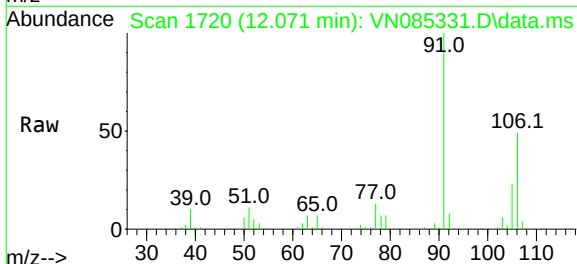
Acq: 27 Dec 2024 17:30

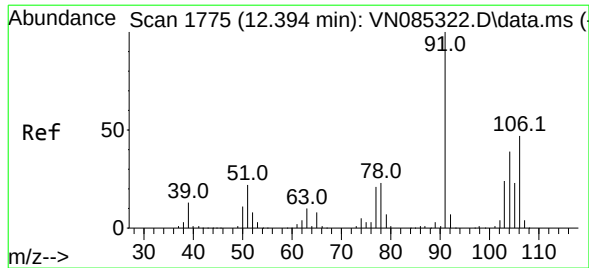
Tgt Ion:106 Resp: 119809

Ion Ratio Lower Upper

106 100

91 206.3 165.2 247.8





#69

o-Xylene

Concen: 19.624 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion:106 Resp: 56516

Ion Ratio Lower Upper

106 100

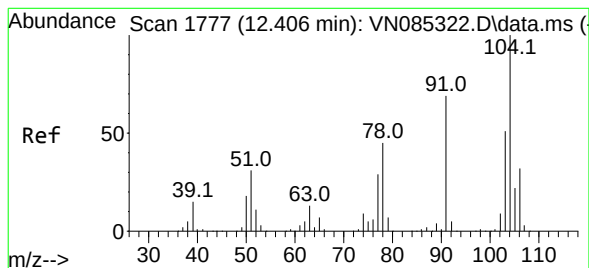
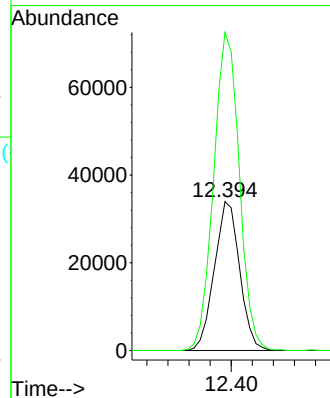
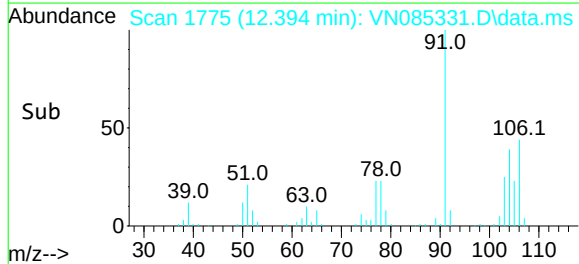
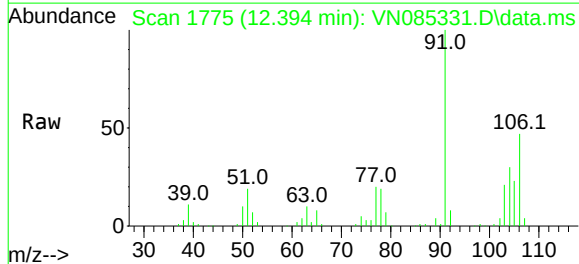
91 217.4 107.3 321.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#70

Styrene

Concen: 19.853 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

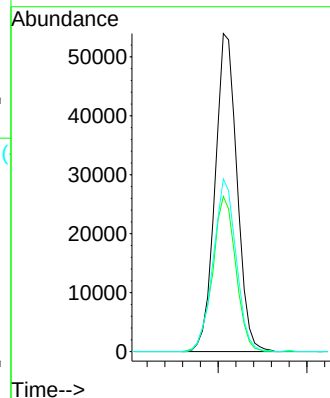
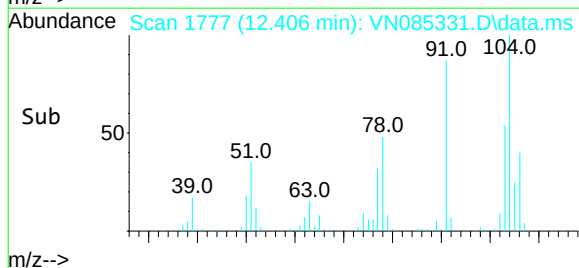
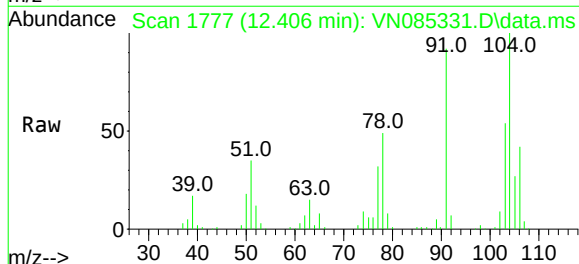
Tgt Ion:104 Resp: 92662

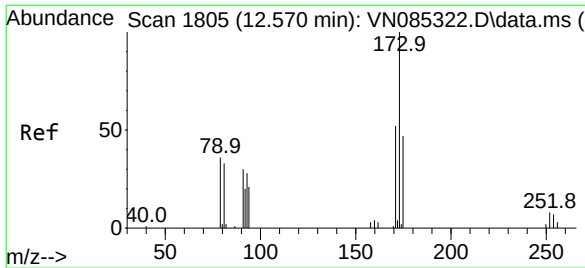
Ion Ratio Lower Upper

104 100

78 51.3 40.7 61.1

103 56.6 44.1 66.1





#71

Bromoform

Concen: 20.552 ug/l

RT: 12.576 min Scan# 1805

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

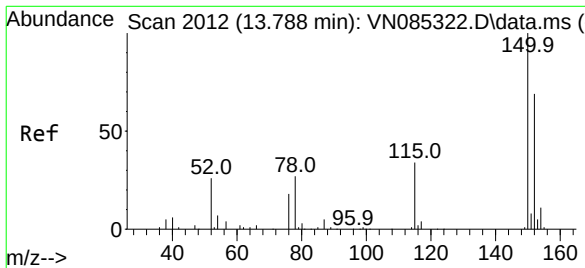
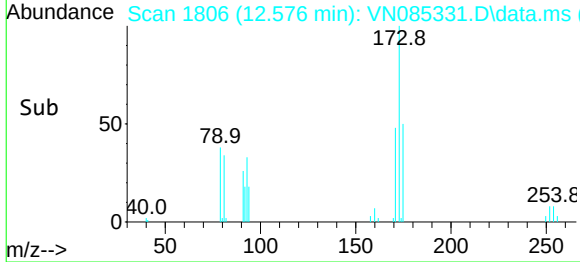
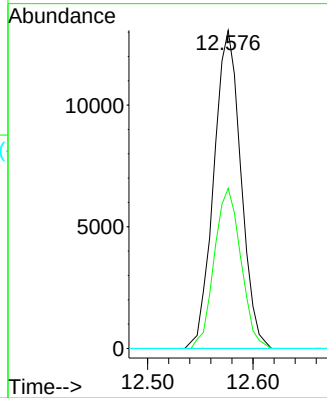
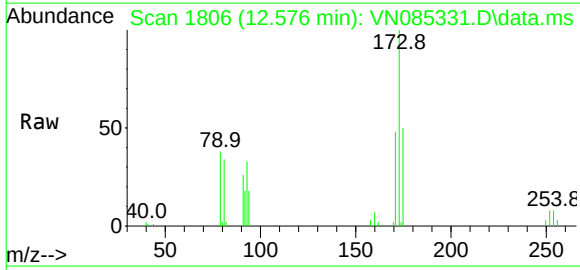
Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion:	173	Resp:	23369
Ion Ratio	Lower	Upper	
173	100		
175	49.4	24.4	73.4
254	0.0	0.0	0.0

Manual Integrations
APPROVEDReviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

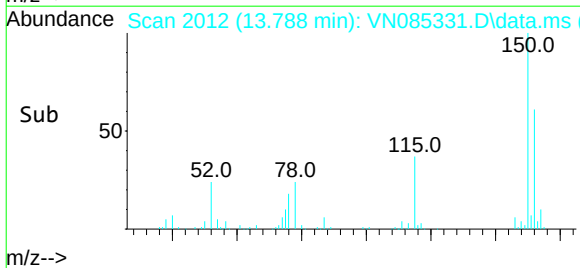
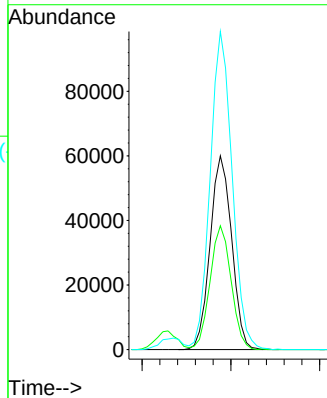
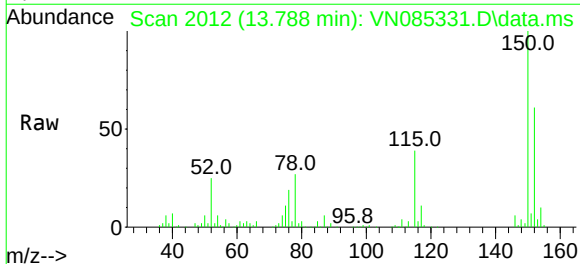
RT: 13.788 min Scan# 2012

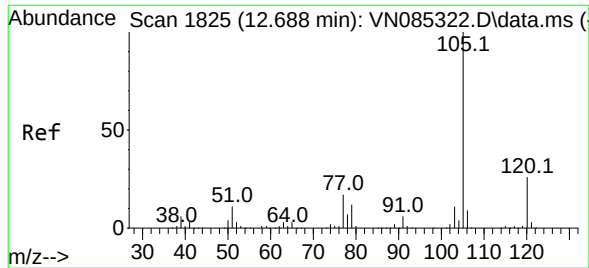
Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Tgt Ion:	152	Resp:	101437
Ion Ratio	Lower	Upper	
152	100		
115	62.5	30.4	91.3
150	167.2	0.0	345.0





#73

Isopropylbenzene

Concen: 19.493 ug/l

RT: 12.694 min Scan# 1825

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 105 Resp: 142191

Ion Ratio Lower Upper

105 100

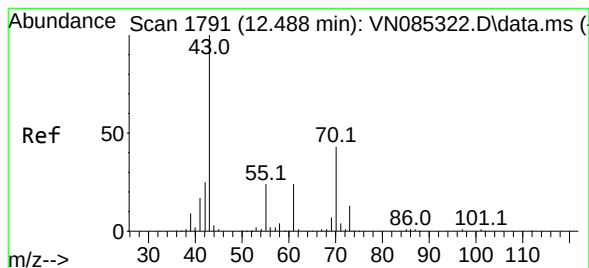
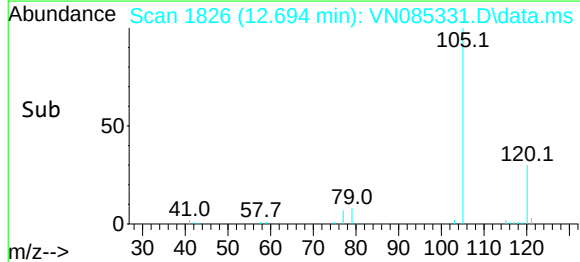
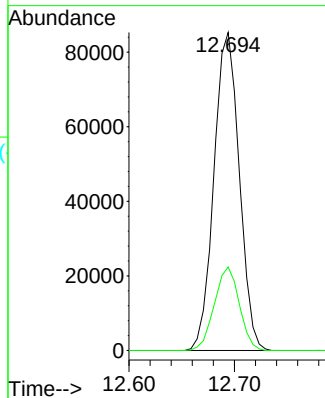
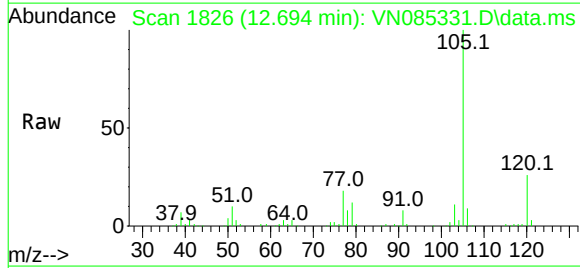
120 25.8 12.9 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#74

N-ethyl acetate

Concen: 21.434 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Tgt Ion: 43 Resp: 66923

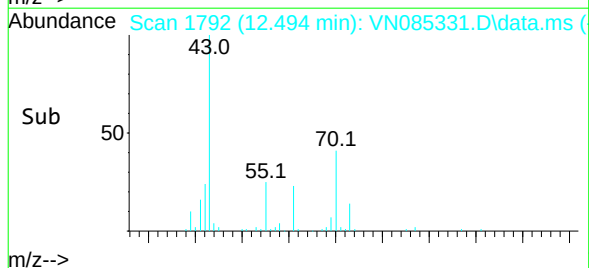
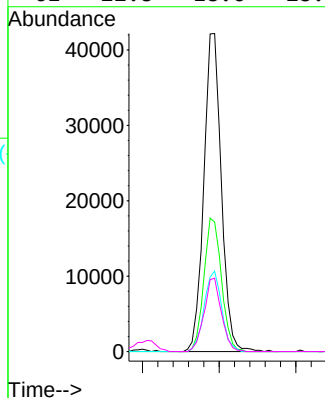
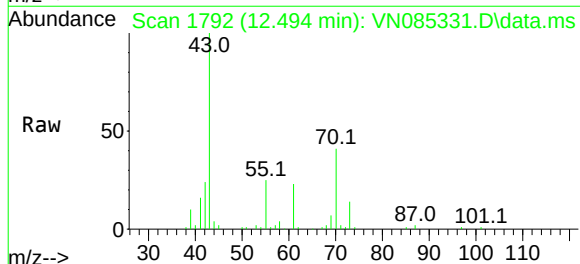
Ion Ratio Lower Upper

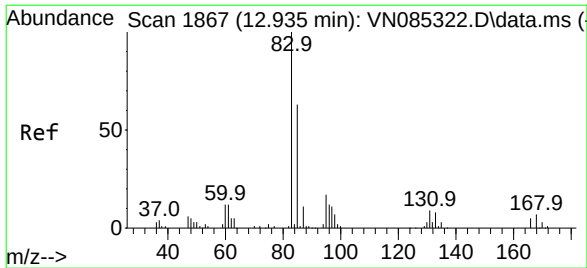
43 100

70 42.1 33.4 50.0

55 25.4 19.2 28.8

61 22.8 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.569 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

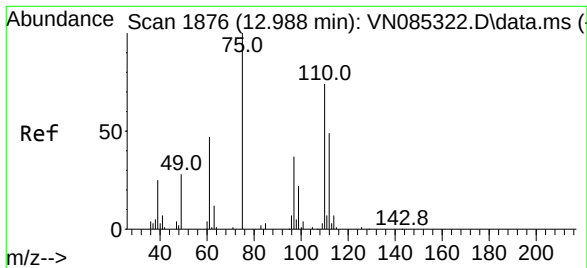
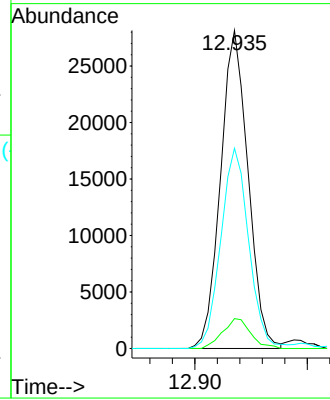
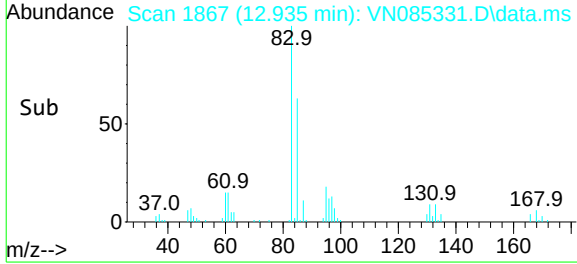
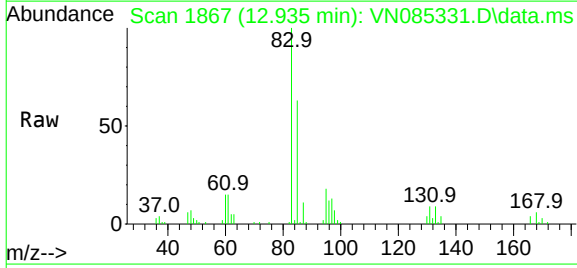
ClientSampleId :

VN1227WBSD01

Tgt Ion:	83	Resp:	47785
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	63.9	32.6	98.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#76

1,2,3-Trichloropropane

Concen: 20.319 ug/l m

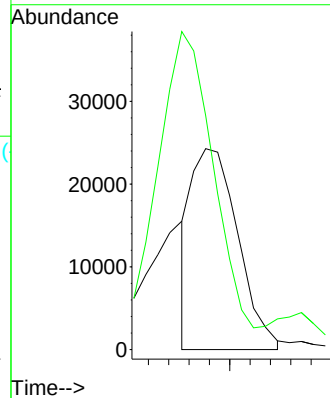
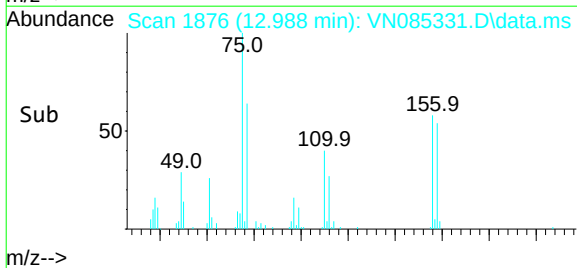
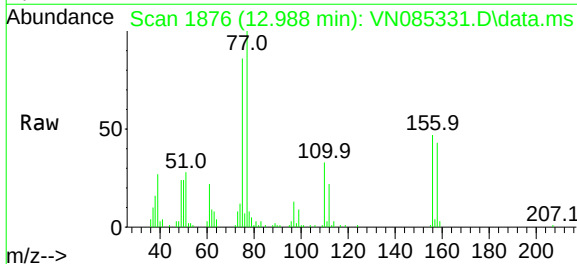
RT: 12.988 min Scan# 1876

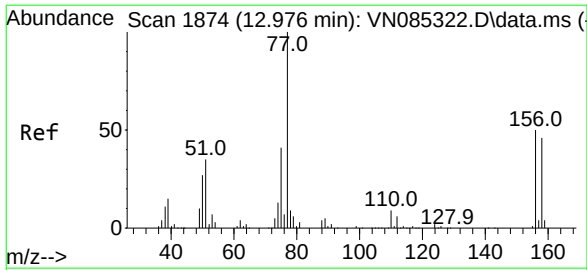
Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Tgt Ion:	75	Resp:	38489
Ion	Ratio	Lower	Upper
75	100		
77	200.2	98.1	294.3





#77

Bromobenzene

Concen: 18.850 ug/l

RT: 12.976 min Scan# 1874

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion:156 Resp: 34066

Ion Ratio Lower Upper

156 100

77 226.2 114.0 342.0

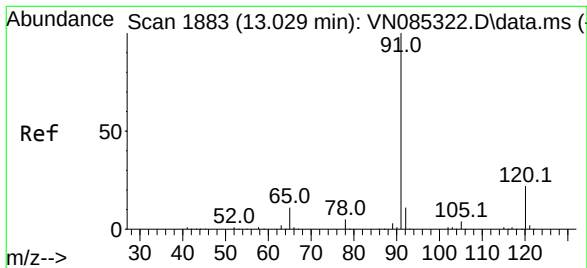
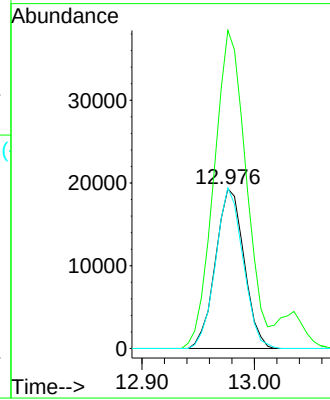
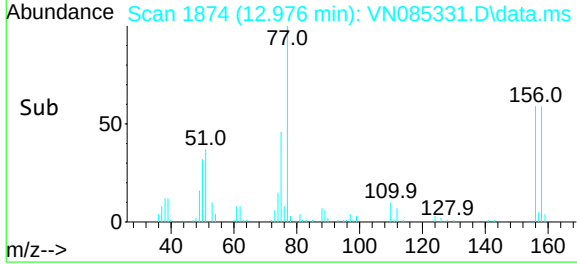
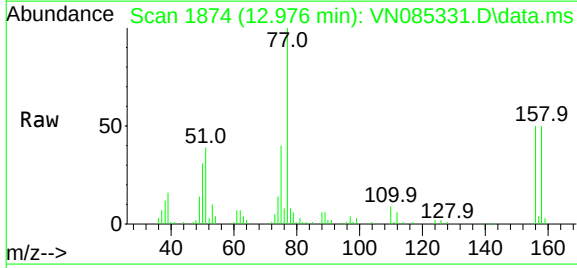
158 96.7 47.6 142.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#78

n-propylbenzene

Concen: 19.828 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. 0.006 min

Lab File: VN085331.D

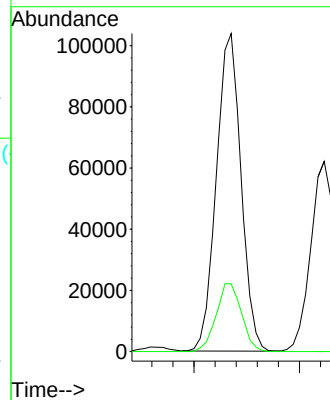
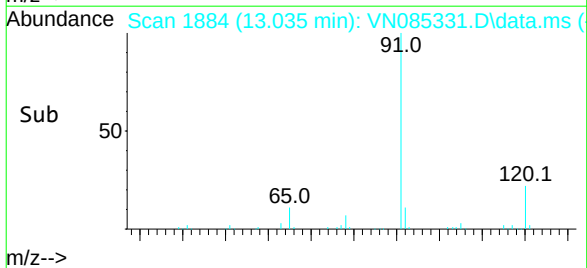
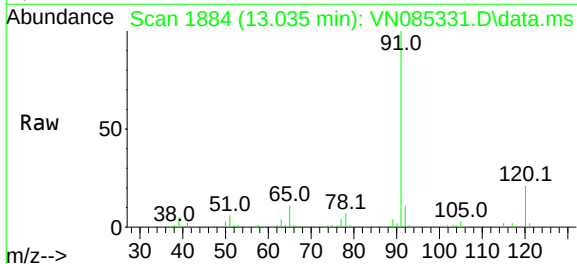
Acq: 27 Dec 2024 17:30

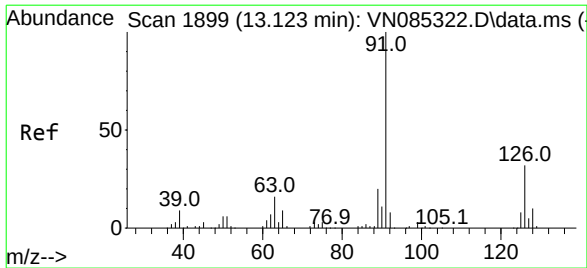
Tgt Ion: 91 Resp: 168593

Ion Ratio Lower Upper

91 100

120 22.0 10.9 32.9





#79

2-Chlorotoluene

Concen: 19.449 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion: 91 Resp: 104075

Ion Ratio Lower Upper

91 100

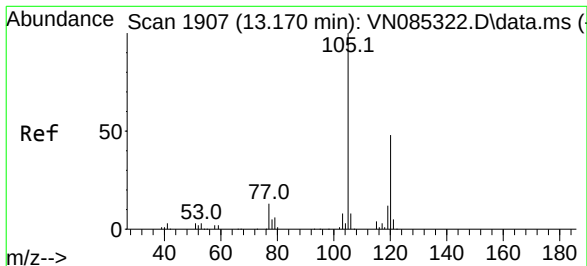
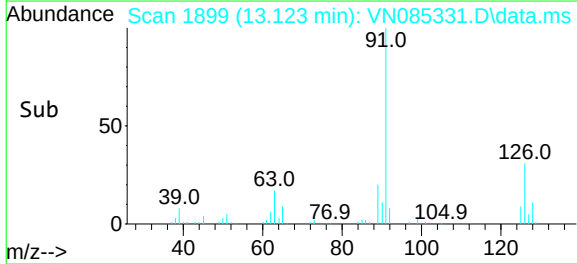
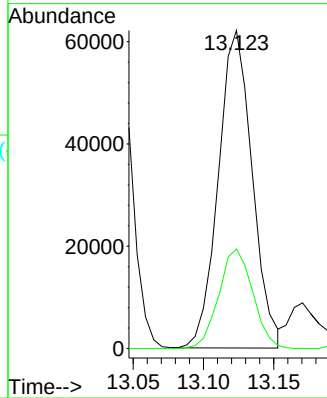
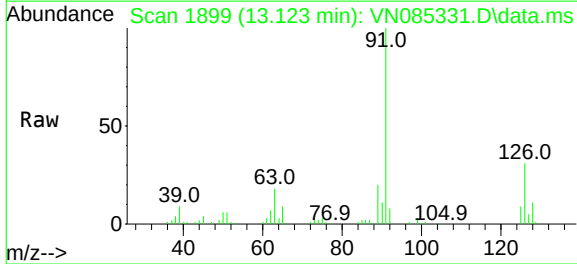
126 31.3 16.0 48.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#80

1,3,5-Trimethylbenzene

Concen: 19.994 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN085331.D

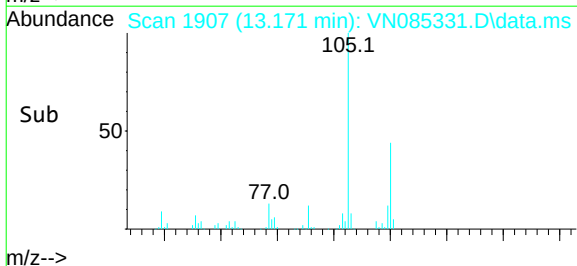
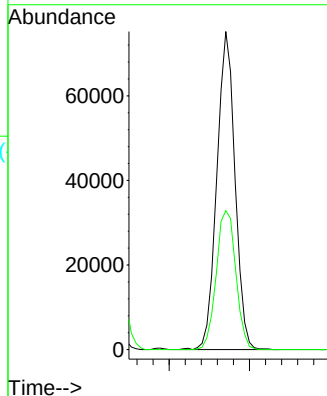
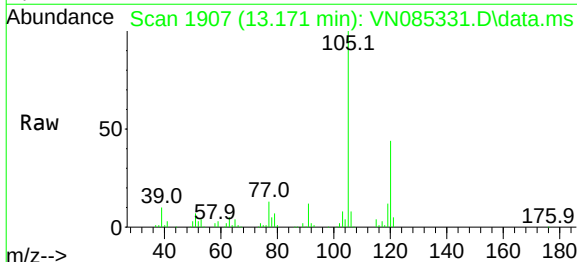
Acq: 27 Dec 2024 17:30

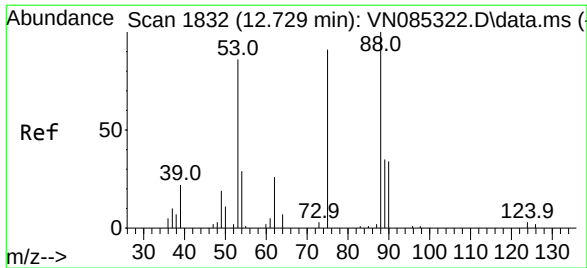
Tgt Ion:105 Resp: 117966

Ion Ratio Lower Upper

105 100

120 47.1 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 19.730 ug/l

RT: 12.735 min Scan# 1832

Delta R.T. 0.006 min

Lab File: VN085331.D

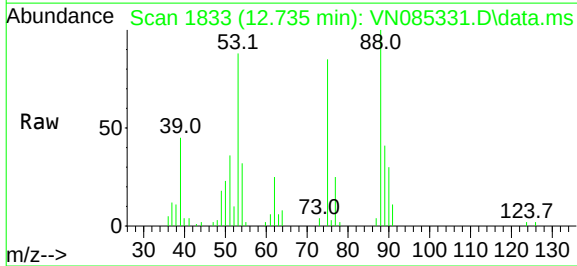
Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01



Tgt Ion: 75 Resp: 15606

Ion Ratio Lower Upper

75 100

53 115.8 80.0 120.0

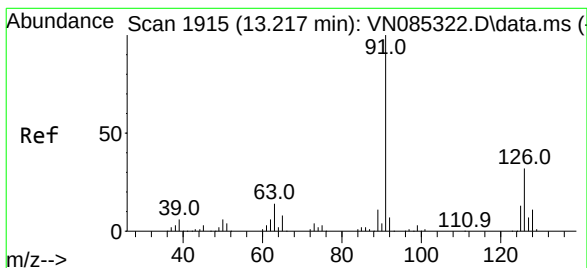
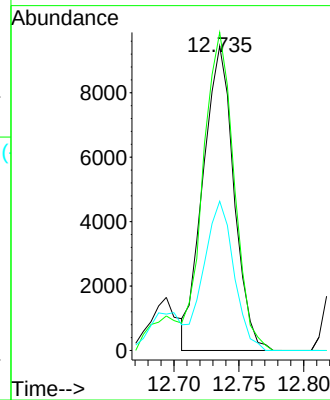
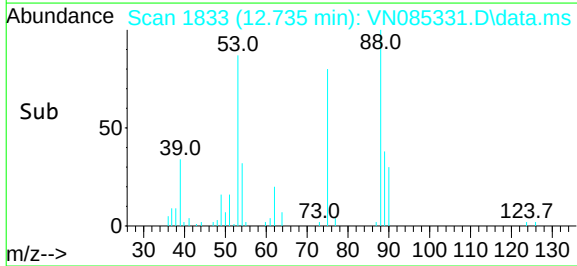
89 48.6 35.8 53.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#82

4-Chlorotoluene

Concen: 19.496 ug/l

RT: 13.218 min Scan# 1915

Delta R.T. 0.000 min

Lab File: VN085331.D

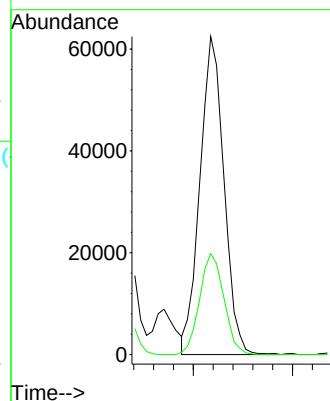
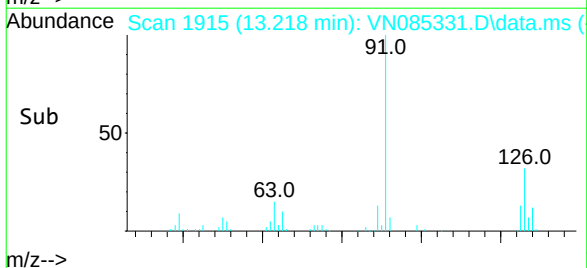
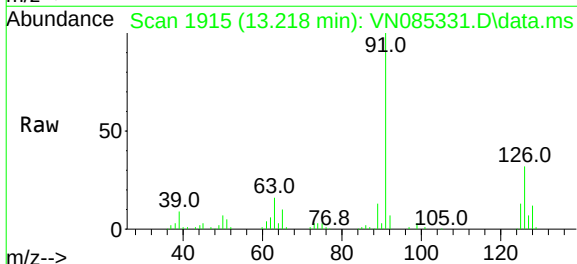
Acq: 27 Dec 2024 17:30

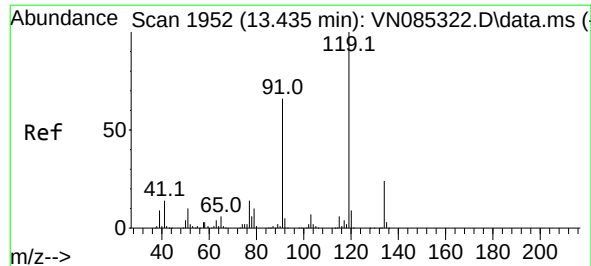
Tgt Ion: 91 Resp: 105071

Ion Ratio Lower Upper

91 100

126 32.1 16.4 49.4





#83

tert-Butylbenzene

Concen: 19.128 ug/l

RT: 13.435 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion:119 Resp: 97764

Ion Ratio Lower Upper

119 100

91 68.9 33.6 100.8

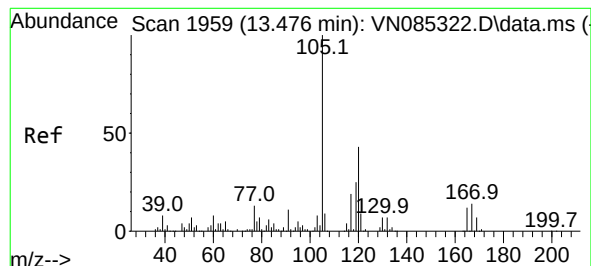
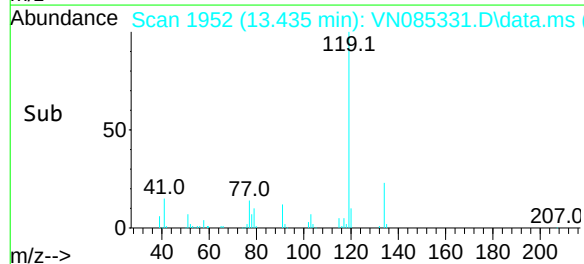
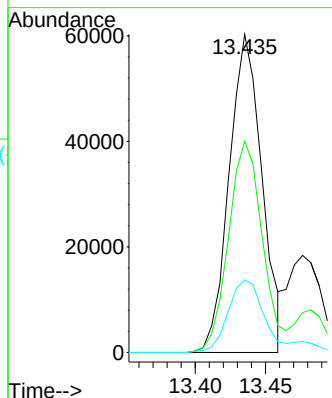
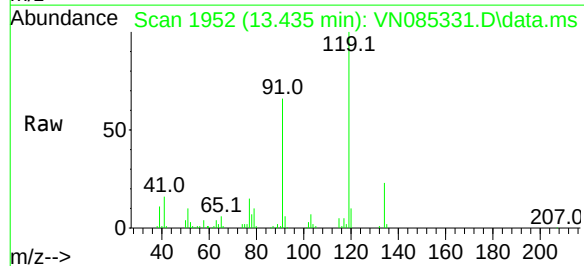
134 24.6 13.3 39.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#84

1,2,4-Trimethylbenzene

Concen: 19.968 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.006 min

Lab File: VN085331.D

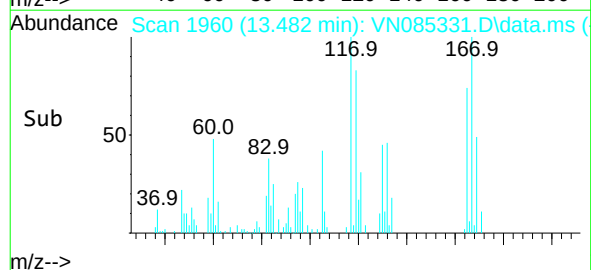
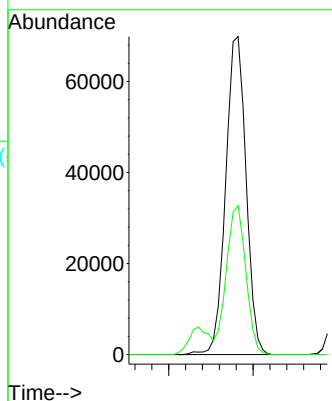
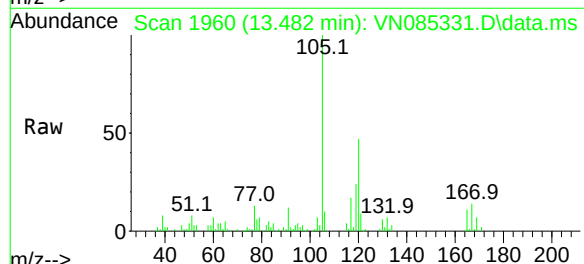
Acq: 27 Dec 2024 17:30

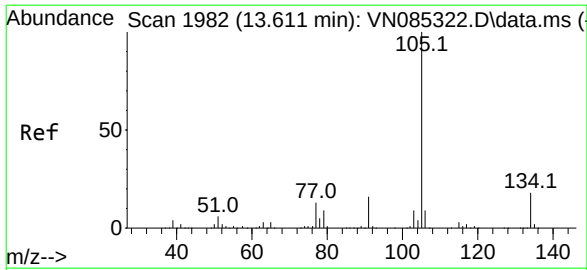
Tgt Ion:105 Resp: 117310

Ion Ratio Lower Upper

105 100

120 45.0 21.7 65.1





#85

sec-Butylbenzene

Concen: 19.588 ug/l

RT: 13.612 min Scan# 19

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion:105 Resp: 138962

Ion Ratio Lower Upper

105 100

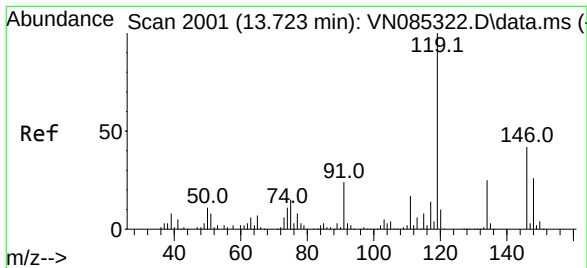
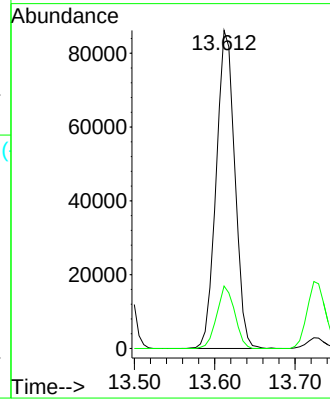
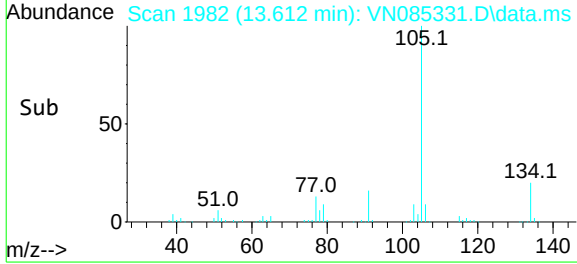
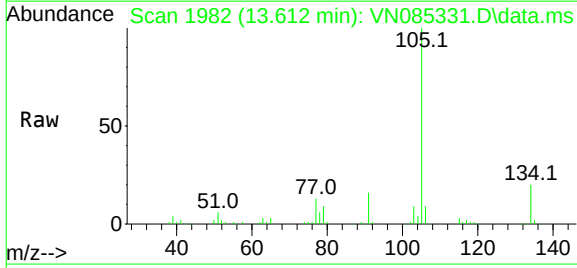
134 18.8 9.4 28.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#86

p-Isopropyltoluene

Concen: 18.647 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

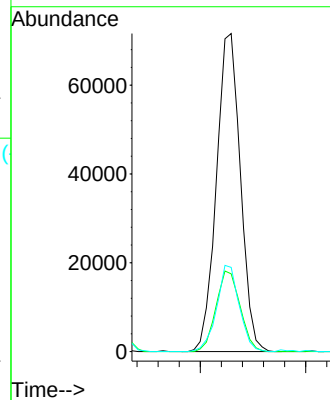
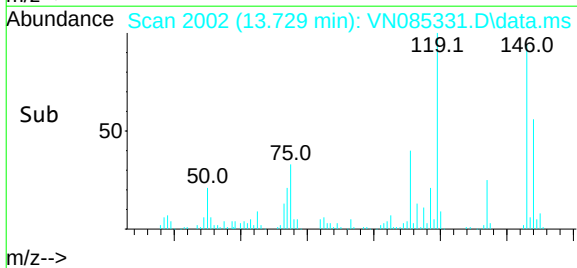
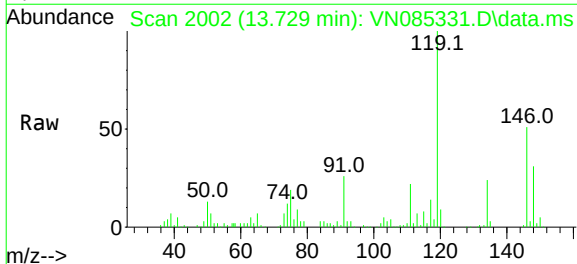
Tgt Ion:119 Resp: 113227

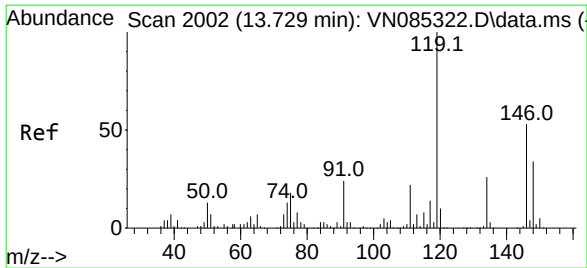
Ion Ratio Lower Upper

119 100

134 25.5 12.5 37.5

91 25.5 12.2 36.4





#87

1,3-Dichlorobenzene

Concen: 18.865 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion:146 Resp: 61805

Ion Ratio Lower Upper

146 100

111 42.5 21.3 63.9

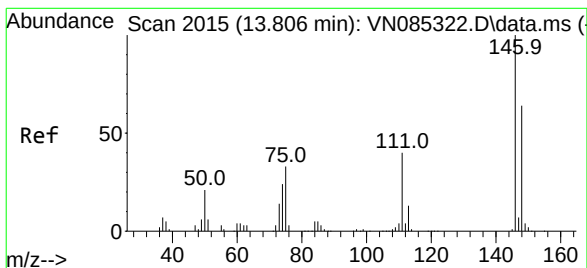
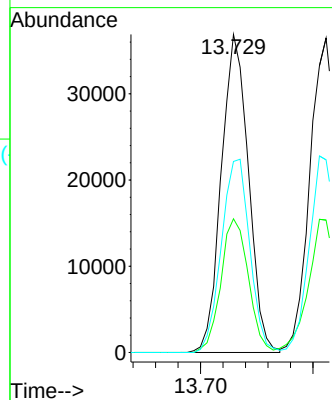
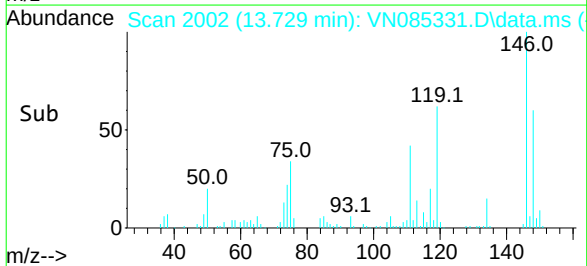
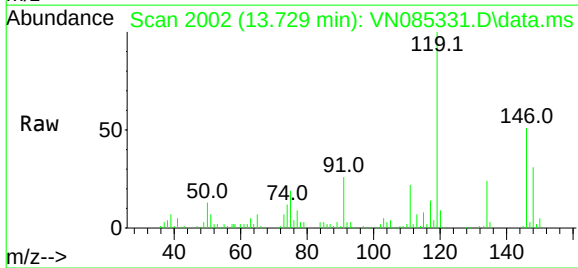
148 63.6 31.5 94.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#88

1,4-Dichlorobenzene

Concen: 18.466 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

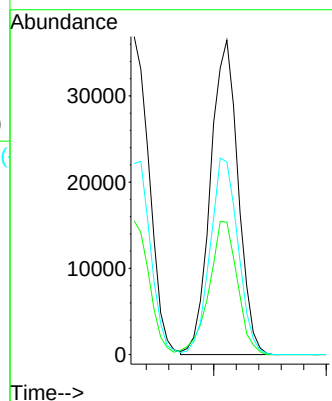
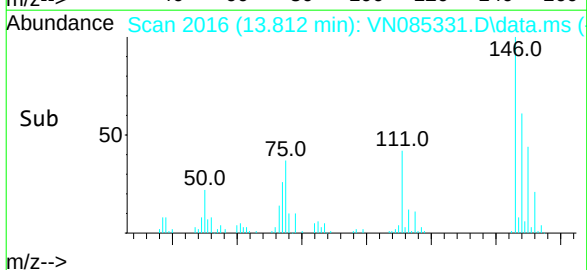
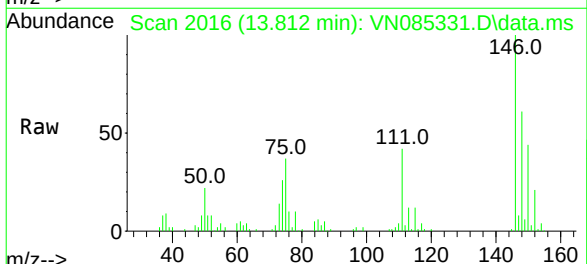
Tgt Ion:146 Resp: 62145

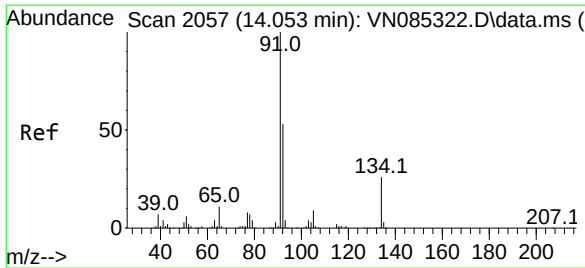
Ion Ratio Lower Upper

146 100

111 43.3 20.8 62.5

148 63.3 31.7 95.1





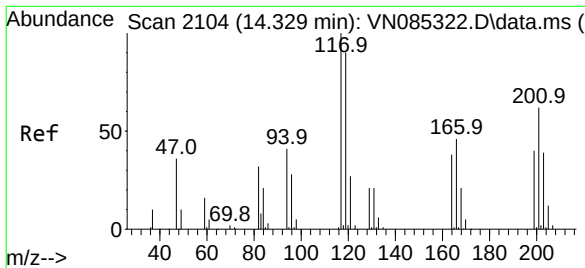
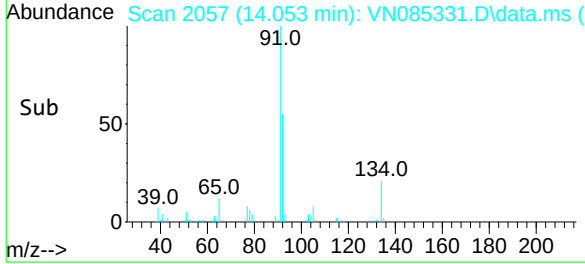
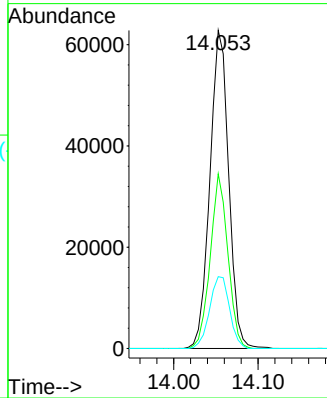
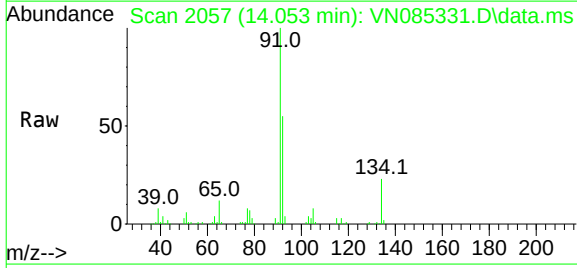
#89
n-Butylbenzene
Concen: 18.690 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

Instrument :
MSVOA_N
ClientSampleId :
VN1227WBSD01

Tgt Ion:	91	Resp:	97095
Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.0	78.0
134	24.0	12.1	36.3

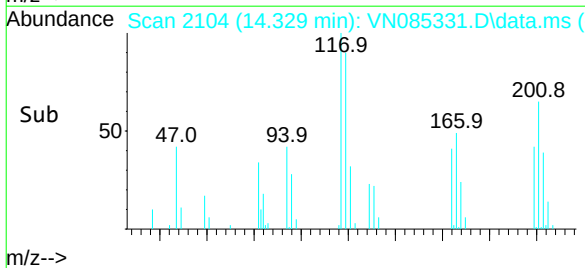
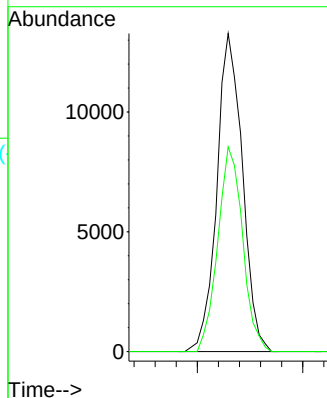
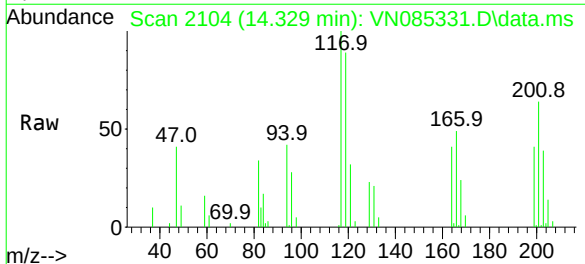
Manual Integrations
APPROVED

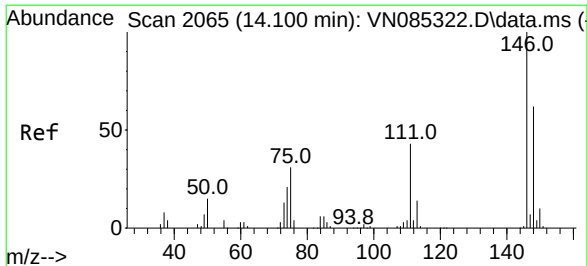
Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024



#90
Hexachloroethane
Concen: 19.213 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN085331.D
Acq: 27 Dec 2024 17:30

Tgt Ion:	117	Resp:	22343
Ion	Ratio	Lower	Upper
117	100		
201	62.6	30.7	92.1





#91

1,2-Dichlorobenzene

Concen: 19.049 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

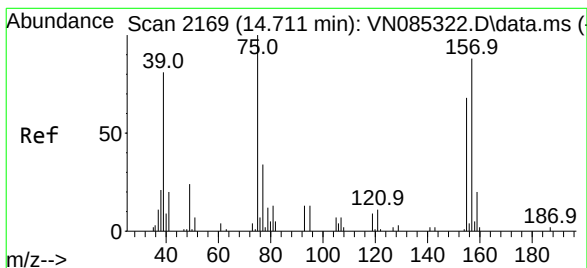
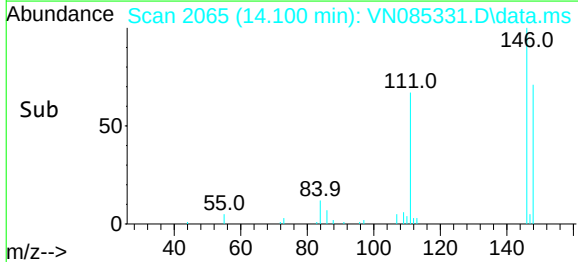
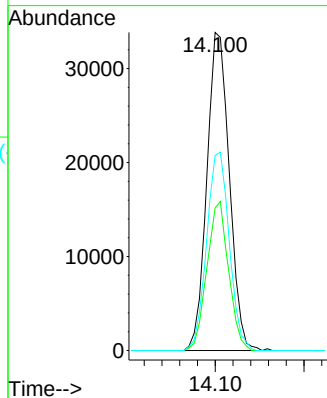
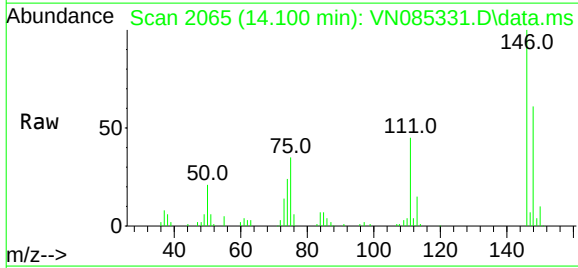
Tgt Ion:	146	Resp:	59449
Ion	Ratio	Lower	Upper
146	100		
111	45.0	21.8	65.3
148	62.9	31.4	94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#92

1,2-Dibromo-3-Chloropropane

Concen: 22.294 ug/l

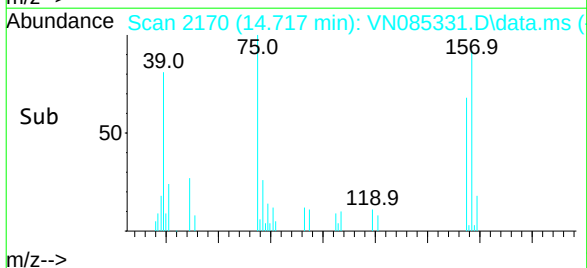
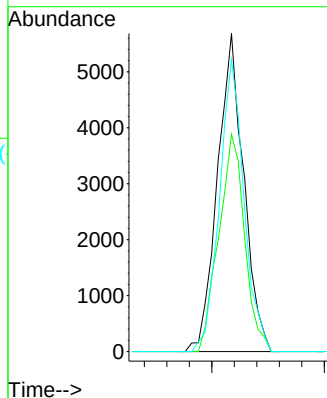
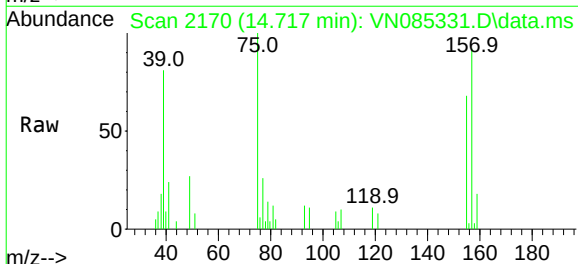
RT: 14.717 min Scan# 2170

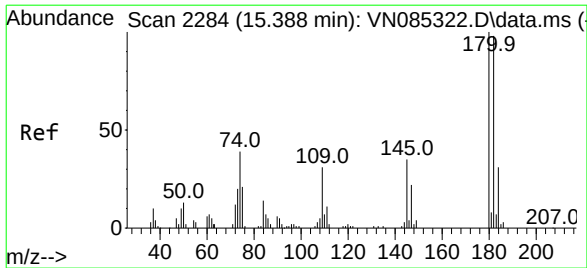
Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Tgt Ion:	75	Resp:	9218
Ion	Ratio	Lower	Upper
75	100		
155	67.1	35.6	106.9
157	85.9	47.0	141.0





#93

1,2,4-Trichlorobenzene

Concen: 18.366 ug/l

RT: 15.394 min Scan# 2285

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion:180 Resp: 28607

Ion Ratio Lower Upper

180 100

182 92.0 47.2 141.6

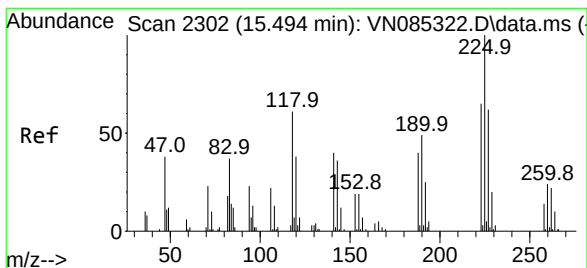
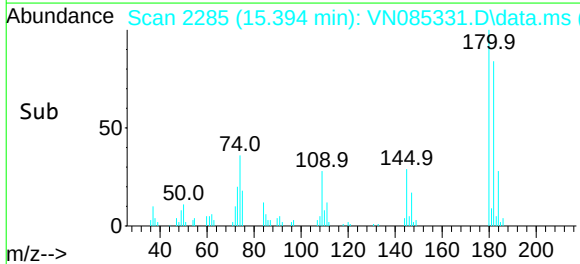
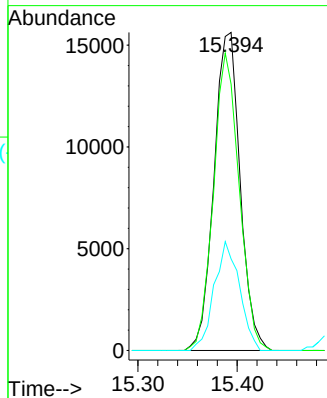
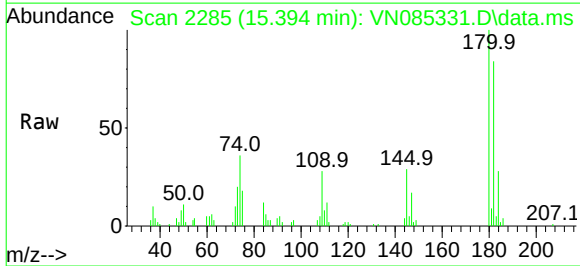
145 33.1 16.6 49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#94

Hexachlorobutadiene

Concen: 17.379 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

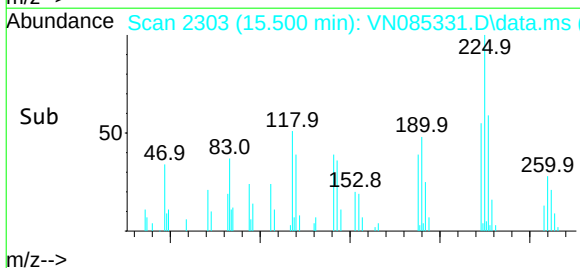
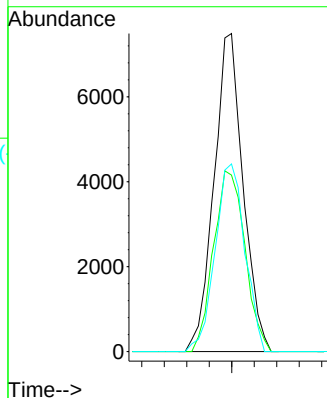
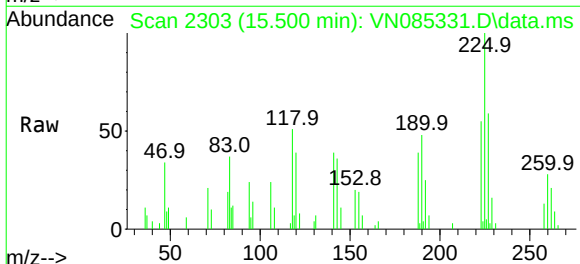
Tgt Ion:225 Resp: 13450

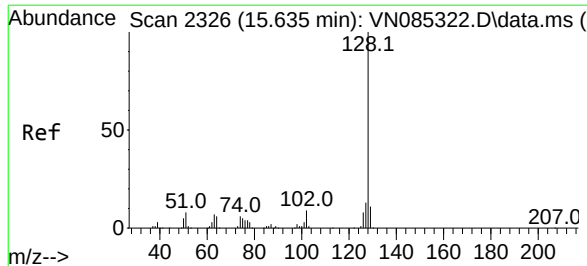
Ion Ratio Lower Upper

225 100

223 61.3 31.6 94.7

227 60.3 30.3 91.0





#95

Naphthalene

Concen: 17.429 ug/l

RT: 15.641 min Scan# 2326

Delta R.T. 0.006 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

Instrument :

MSVOA_N

ClientSampleId :

VN1227WBSD01

Tgt Ion:128 Resp: 92054

Ion Ratio Lower Upper

128 100

127 13.7 10.6 16.0

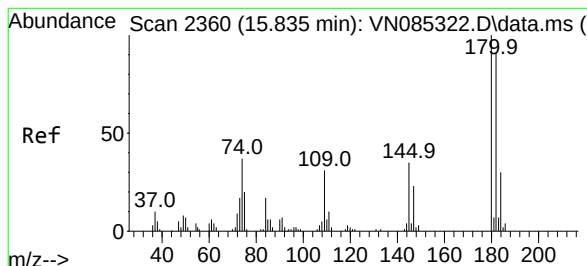
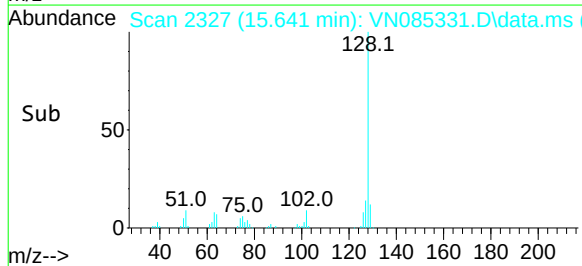
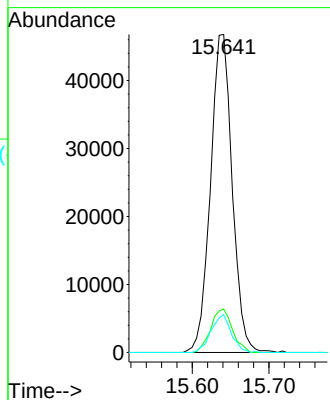
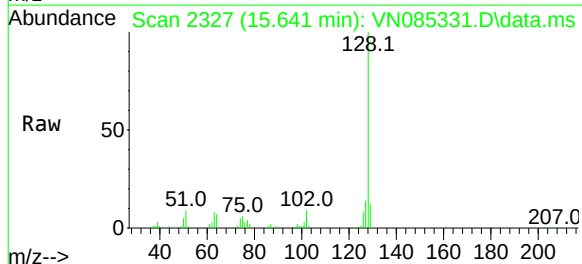
129 11.1 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024



#96

1,2,3-Trichlorobenzene

Concen: 17.641 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085331.D

Acq: 27 Dec 2024 17:30

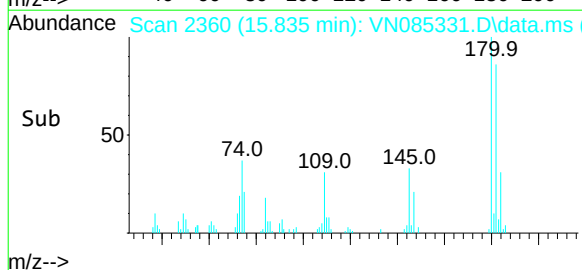
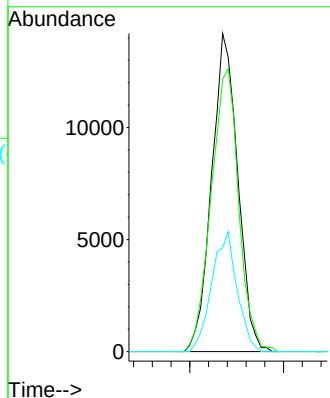
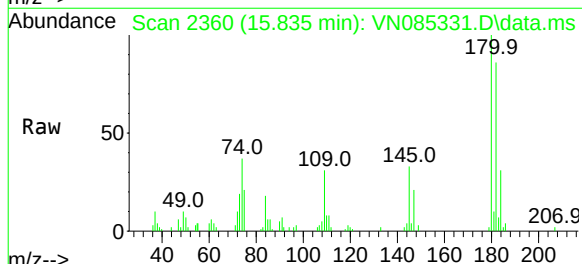
Tgt Ion:180 Resp: 27454

Ion Ratio Lower Upper

180 100

182 93.7 46.8 140.4

145 36.5 17.2 51.6



Manual Integration Report

Sequence:	vn122724	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085321.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:06 AM	MMDadoda	12/30/2024 12:45:09 PM	Peak Integrated by Software
VSTDICCC050	VN085322.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:11 AM	MMDadoda	12/30/2024 12:45:14 PM	Peak Integrated by Software
VSTDICCC050	VN085322.D	trans-1,4-Dichloro-2-but ene	JOHN	12/30/2024 9:19:11 AM	MMDadoda	12/30/2024 12:45:14 PM	Peak Integrated by Software
VSTDICC020	VN085323.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:15 AM	MMDadoda	12/30/2024 12:45:16 PM	Peak Integrated by Software
VSTDICC020	VN085323.D	Vinyl Acetate	JOHN	12/30/2024 9:19:15 AM	MMDadoda	12/30/2024 12:45:16 PM	Peak Integrated by Software
VSTDICC010	VN085324.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:21 AM	MMDadoda	12/30/2024 12:45:18 PM	Peak Integrated by Software
VSTDICC010	VN085324.D	trans-1,4-Dichloro-2-but ene	JOHN	12/30/2024 9:19:21 AM	MMDadoda	12/30/2024 12:45:18 PM	Peak Integrated by Software
VSTDICC010	VN085324.D	Vinyl Acetate	JOHN	12/30/2024 9:19:21 AM	MMDadoda	12/30/2024 12:45:18 PM	Peak Integrated by Software
VSTDICC005	VN085325.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:25 AM	MMDadoda	12/30/2024 12:45:20 PM	Peak Integrated by Software
VSTDICC005	VN085325.D	Vinyl Acetate	JOHN	12/30/2024 9:19:25 AM	MMDadoda	12/30/2024 12:45:20 PM	Peak Integrated by Software
VSTDICC001	VN085326.D	1,1,2-Trichlorotrifluoroet hane	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software
VSTDICC001	VN085326.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software
VSTDICC001	VN085326.D	1,4-Dichlorobenzene	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vn122724

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN085326.D	1,4-Dioxane	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software
VSTDICC001	VN085326.D	Acrylonitrile	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software
VSTDICC001	VN085326.D	Bromochloromethane	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software
VSTDICC001	VN085326.D	Methacrylonitrile	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software
VSTDICV050	VN085328.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:35 AM	MMDadoda	12/30/2024 12:45:23 PM	Peak Integrated by Software
VN1227WBS01	VN085330.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:39 AM	MMDadoda	12/30/2024 12:45:25 PM	Peak Integrated by Software
VN1227WBSD0 1	VN085331.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:43 AM	MMDadoda	12/30/2024 12:45:27 PM	Peak Integrated by Software
VSTDCCC050	VN085337.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:56 AM	MMDadoda	12/30/2024 12:45:33 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN122724

Review By	John Carlone	Review On	12/30/2024 9:27:13 AM
Supervise By	Mahesh Dadoda	Supervise On	12/30/2024 12:45:11 PM
SubDirectory	VN122724	HP Acquire Method	HP Processing Method 82N122724W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP132335		
Initial Calibration Stds	VP132354,VP132355,VP132356,VP132357,VP132358,VP132359		
CCC	VP132336		
Internal Standard/PEM			
ICV/I.BLK	VP132360		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085320.D	27 Dec 2024 09:52	JC\MD	Ok
2	VSTDICC100	VN085321.D	27 Dec 2024 10:26	JC\MD	Ok,M
3	VSTDICCC050	VN085322.D	27 Dec 2024 10:50	JC\MD	Ok,M
4	VSTDICC020	VN085323.D	27 Dec 2024 11:13	JC\MD	Ok,M
5	VSTDICC010	VN085324.D	27 Dec 2024 11:37	JC\MD	Ok,M
6	VSTDICC005	VN085325.D	27 Dec 2024 12:01	JC\MD	Ok,M
7	VSTDICC001	VN085326.D	27 Dec 2024 12:48	JC\MD	Ok,M
8	IBLK	VN085327.D	27 Dec 2024 13:12	JC\MD	Ok
9	VSTDICV050	VN085328.D	27 Dec 2024 15:58	JC\MD	Ok,M
10	VN1227WBL01	VN085329.D	27 Dec 2024 16:33	JC\MD	Ok
11	VN1227WBS01	VN085330.D	27 Dec 2024 16:57	JC\MD	Ok,M
12	VN1227WBSD01	VN085331.D	27 Dec 2024 17:30	JC\MD	Ok,M
13	PB165857TB	VN085332.D	27 Dec 2024 17:55	JC\MD	Ok
14	P5362-02	VN085333.D	27 Dec 2024 18:18	JC\MD	Ok
15	P5380-02	VN085334.D	27 Dec 2024 18:42	JC\MD	Ok
16	P5386-02	VN085335.D	27 Dec 2024 19:06	JC\MD	Ok,M
17	P5386-04	VN085336.D	27 Dec 2024 19:30	JC\MD	Ok,M
18	VSTDCCC050	VN085337.D	27 Dec 2024 19:54	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN122724

Review By	John Carlone	Review On	12/30/2024 9:27:13 AM
Supervise By	Mahesh Dadoda	Supervise On	12/30/2024 12:45:11 PM
SubDirectory	VN122724	HP Acquire Method	HP Processing Method 82N122724W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP132335		
Initial Calibration Stds	VP132354,VP132355,VP132356,VP132357,VP132358,VP132359		
CCC	VP132336		
Internal Standard/PEM			
ICV/I.BLK	VP132360		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085320.D	27 Dec 2024 09:52		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN085321.D	27 Dec 2024 10:26		JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN085322.D	27 Dec 2024 10:50		JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN085323.D	27 Dec 2024 11:13		JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN085324.D	27 Dec 2024 11:37		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN085325.D	27 Dec 2024 12:01		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN085326.D	27 Dec 2024 12:48	Comp #86 on QR	JC\MD	Ok,M
8	IBLK	IBLK	VN085327.D	27 Dec 2024 13:12		JC\MD	Ok
9	VSTDICV050	ICVVN122724	VN085328.D	27 Dec 2024 15:58		JC\MD	Ok,M
10	VN1227WBL01	VN1227WBL01	VN085329.D	27 Dec 2024 16:33		JC\MD	Ok
11	VN1227WBS01	VN1227WBS01	VN085330.D	27 Dec 2024 16:57		JC\MD	Ok,M
12	VN1227WBSD01	VN1227WBSD01	VN085331.D	27 Dec 2024 17:30		JC\MD	Ok,M
13	PB165857TB	PB165857TB	VN085332.D	27 Dec 2024 17:55		JC\MD	Ok
14	P5362-02	WC-SOIL-20241219	VN085333.D	27 Dec 2024 18:18	vial A pH#5.0	JC\MD	Ok
15	P5380-02	TAPIAL3-IDW-SOIL-12	VN085334.D	27 Dec 2024 18:42	vial A pH#5.0	JC\MD	Ok
16	P5386-02	MOO-24-00398	VN085335.D	27 Dec 2024 19:06	vial A pH#5.0	JC\MD	Ok,M
17	P5386-04	MOO-24-00395-96	VN085336.D	27 Dec 2024 19:30	vial A pH#5.0	JC\MD	Ok,M
18	VSTDCCC050	VSTDCCC050EC	VN085337.D	27 Dec 2024 19:54		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN122724

Review By	John Carlone	Review On	12/30/2024 9:27:13 AM	
Supervise By	Mahesh Dadoda	Supervise On	12/30/2024 12:45:11 PM	
SubDirectory	VN122724	HP Acquire Method	HP Processing Method	82N122724W.M
STD. NAME	STD REF.#			
Tune/Reschk	VP132335			
Initial Calibration Stds	VP132354,VP132355,VP132356,VP132357,VP132358,VP132359			
CCC	VP132336			
Internal Standard/PEM				
ICV/I.BLK	VP132360			
Surrogate Standard				
MS/MSD Standard				
LCS Standard				

M : Manual Integration

SOP ID : M1311-TCLP-15
SDG No : N/A
Weigh By : JP
Balance ID : WC SC-7
pH Meter ID : WC PH METER-1
Extraction By : JP
Filter By : JP
Pipette ID : WC
Tumbler ID : T-1
TCLP Filter ID : 114771

Start Prep Date : 12/26/2024 **Time :** 16:00
End Prep Date : 12/27/2024 **Time :** 10:15
Combination Ratio : 20
ZHE Cleaning Batch : N/A
Initial Room Temperature: 22 °C
Final Room Temperature: 21 °C
TCLP Technician Signature : *JP*
Supervisor By : *12*

Standardized Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110801
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 mintues of tumbling. TUMBLER
 ZHE-1 checked,30 rpm.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/27/24 10:15:00	<i>JP</i> <i>120 Room</i>	<i>G.Y</i> <i>NOC 24b</i>
	Preparation Group	Analysis Group

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
P5362-02	WC-SOIL-20241219	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	02	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P5386-02	MOO-24-00398	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
P5386-04	MOO-24-00395-96	04	25.00	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
PB165857TB	LEB857	05	N/A	500	N/A	N/A	N/A	4.93	N/A	ZHE-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
P5362-02	WC-SOIL-20241219	N/A	N/A	N/A	N/A	100	N/A
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	N/A	N/A	N/A	N/A	100	N/A
P5386-02	MOO-24-00398	N/A	N/A	N/A	N/A	100	N/A
P5386-04	MOO-24-00395-96	N/A	N/A	N/A	N/A	100	N/A
PB165857TB	LEB857	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tcip zhe p5380 WorkList ID : 186584 Department : TCPLP Extraction Date : 12-26-2024 07:38:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5362-02	WC-SOIL-20241219	Solid	TCPLP ZHE Extraction	Cool 4 deg C	PARS02	N21	12/19/2024	1311 ZHE
P5380-02	TAPIAL3-IDW-SOIL-122024-T1	Solid	TCPLP ZHE Extraction	Cool 4 deg C	WEST04	N31	12/20/2024	1311 ZHE
P5386-02	MOO-24-00398	Solid	TCPLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	12/26/2024	1311 ZHE
P5386-04	MOO-24-00395-96	Solid	TCPLP ZHE Extraction	Cool 4 deg C	PSEG03	N31	12/26/2024	1311 ZHE

Date/Time 12-26-24 15:30
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Date/Time 12-26-24 17:30
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: [Signature]

Prep Standard - Chemical Standard Summary

Order ID : P5380

Test : TCLP VOA

Prepbatch ID :

Sequence ID/Qc Batch ID: vn122724,

Standard ID :

VP129195,VP130430,VP130434,VP131746,VP131767,VP131864,VP131984,VP131987,VP131989,VP132005,VP132007,VP132035,VP132037,VP132096,VP132097,VP132098,VP132101,VP132335,VP132336,VP132354,VP132355,VP132356,VP132357,VP132358,VP132359,VP132360,

Chemical ID :

V12966,V13391,V13445,V13449,V13457,V13460,V13465,V13466,V13582,V13707,V13806,V13820,V13918,V14020,V14021,V14096,V14105,V14106,V14125,V14143,V14145,V14152,V14154,V14173,V14174,V14178,V14192,V14194,V14201,V14289,V14424,V14434,V14437,V14461,V14614,V14630,V14631,V14632,V14633,V14650,V14651,V14652,V14655,V14656,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>
262	8260 Working STD (BCM)-Second source, 100PPM	VP129195	07/22/2024	01/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
07/26/2024								

FROM 1.00000ml of V12966 + 9.00000ml of V14143 = 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>
617	8260 Surrogate, 400PPM	VP130430	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
09/26/2024								

FROM 0.40000ml of V13707 + 24.60000ml of V14145 = 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>
1738	8260 surrogate 20 ppm	VP130434	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								10/02/2024

FROM 0.02000ml of V13707 + 24.99000ml of V14145 = 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>
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/23/2024

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP131864	12/02/2024	01/11/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/03/2024

FROM 0.16000ml of V13449 + 0.80000ml of V13820 + 0.80000ml of V14096 + 0.80000ml of V14125 + 0.80000ml of V14178 + 0.80000ml of V14424 + 1.60000ml of V13918 + 4.24000ml of V14461 = Final Quantity: 10.000 ml



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

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
180	8260 Working STD (Acrolein)-First source, 100PPM	VP131989	12/06/2024	01/05/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 17.50000ml of V14152 + 2.50000ml of VP131987 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP132005	12/09/2024	01/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 0.40000ml of V13445 + 1.00000ml of V13806 + 1.00000ml of V14020 + 1.00000ml of V14021 + 1.00000ml of V14105 + 1.00000ml of V14106 + 1.00000ml of V14173 + 1.00000ml of V14174 + 1.00000ml of V14194 + 1.00000ml of V14434 + 1.00000ml of V14437 + 1.50000ml of V14192 + 1.50000ml of V14201 + 10.60000ml of V14152 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
245	8260 Calibration Working STD Mix-First source, 20PPM	VP132007	12/09/2024	01/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 12/12/2024

FROM 17.50000ml of V14152 + 2.50000ml of VP132005 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final
Quantity: 50.000 ml

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>
1812	8260 Working Std(2-CVE)-100ppm	VP132037	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 0.25000ml of V14633 + 24.75000ml of V14614 = 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>
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
253	8260 Working STD (BCM)-First source, 20PPM	VP132097	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/19/2024

FROM 0.50000ml of V13466 + 49.50000ml of V14614 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
252	8260 Working STD (BCM)-First source, 100PPM	VP132098	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/19/2024

FROM 1.25000ml of V13466 + 23.75000ml of V14614 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP132101	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/19/2024

FROM 0.80000ml of V13582 + 9.20000ml of V14614 = 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>
589	BFB TUNE CHECK	VP132335	12/27/2024	12/28/2024	John Carlone	None	None	Maresh Dadoda
								12/27/2024

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml



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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>
335	5 PPB ICC, 8260-Water	VP132355	12/27/2024	12/28/2024	John Carlone	None	None	Mahesh Dadoda 01/01/2025

FROM 39.94200ml of W3112 + 0.00800ml of VP131746 + 0.01000ml of VP130434 + 0.01000ml of VP131989 + 0.01000ml of VP132007 + 0.01000ml of VP132037 + 0.01000ml of VP132097 = 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>
336	10 PPB ICC, 8260-Water	VP132356	12/27/2024	12/28/2024	John Carlone	None	None	Mahesh Dadoda 01/01/2025

FROM 39.92700ml of W3112 + 0.00100ml of VP130430 + 0.00400ml of VP132098 + 0.00800ml of VP131746 + 0.02000ml of VP131989 + 0.02000ml of VP132007 + 0.02000ml of VP132037 = 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>
337	20 PPB ICC, 8260-Water	VP132357	12/27/2024	12/28/2024	John Carlone	None	None	Mahesh Dadoda 01/01/2025
<u>FROM</u>	39.97000ml of W3112 + 0.00200ml of VP130430 + 0.00200ml of VP132096 + 0.00500ml of VP131987 + 0.00500ml of VP132005 + 0.00500ml of VP132035 + 0.00800ml of VP131746 = 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>
380	50 PPB ICC, 8260-Water	VP132358	12/27/2024	12/28/2024	John Carlone	None	None	Mahesh Dadoda 01/01/2025
<u>FROM</u>	39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP131987 + 0.01250ml of VP132005 + 0.01250ml of VP132035 = 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>
381	100 PPB ICC, 8260-Water	VP132359	12/27/2024	12/28/2024	John Carlone	None	None	Maresh Dadoda 01/01/2025
<u>FROM</u>	39.89700ml of W3112 + 0.00800ml of VP131746 + 0.01000ml of VP130430 + 0.01000ml of VP132096 + 0.02500ml of VP131987 + 0.02500ml of VP132005 + 0.02500ml of VP132035 = 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>
385	50 PPB ICV, 8260-Water	VP132360	12/27/2024	12/28/2024	John Carlone	None	None	Maresh Dadoda 01/01/2025
<u>FROM</u>	39.92950ml of W3112 + 0.00500ml of VP130430 + 0.00800ml of VP131746 + 0.01250ml of VP131864 + 0.01250ml of VP131984 + 0.01250ml of VP132101 + 0.02000ml of VP129195 = 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.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	01/22/2025	07/22/2024 / SAM	07/06/2022 / SAM	V12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	02/28/2025	11/26/2024 / SAM	01/23/2023 / SAM	V13445

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	06/02/2025	12/02/2024 / SAM	01/23/2023 / SAM	V13449

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	12/12/2024 / SAM	01/30/2023 / SAM	V13582

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	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0194279	03/16/2025	09/16/2024 / SAM	05/31/2023 / SAM	V13806

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0197644	04/14/2025	10/14/2024 / SAM	05/31/2023 / SAM	V13820

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	A0193887	04/17/2025	10/17/2024 / SAM	07/24/2023 / SAM	V13918

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	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14020

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	03/29/2025	11/26/2024 / SAM	11/22/2023 / SAM	V14021

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	A0205177	03/04/2025	09/04/2024 / SAM	12/22/2023 / SAM	V14096

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0205179	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14105

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0205179	05/26/2025	11/26/2024 / SAM	12/22/2023 / SAM	V14106

LOTS

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)	011624	04/17/2025	10/17/2024 / SAM	01/17/2024 / SAM	V14125

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

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	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

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	04/14/2025	10/14/2024 / SAM	02/06/2024 / SAM	V14152

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14173

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	05/26/2025	11/26/2024 / SAM	02/20/2024 / SAM	V14174

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	04/17/2025	10/17/2024 / SAM	02/20/2024 / SAM	V14178

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	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14192

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	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14194

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	05/26/2025	11/26/2024 / SAM	02/28/2024 / SAM	V14201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

CHEMICAL RECEIPT LOG BOOK

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	A0205013	06/02/2025	12/02/2024 / SAM	08/15/2024 / SAM	V14424

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14434

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	05/26/2025	11/26/2024 / SAM	08/15/2024 / SAM	V14437

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)	2310762004	05/26/2025	11/26/2024 / pedro	08/16/2024 / SAM	V14461

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120524	01/05/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14652

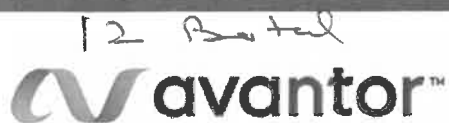
CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120424	01/04/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14655

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	120424	01/04/2025	12/06/2024 / SAM	12/06/2024 / SAM	V14656

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



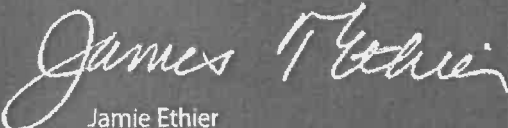
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

CERTIFIED WEIGHT REPORT

Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
011627
Refrigerate (4 °C)
Varied
6UTB
NIST Test ID#:
Weight(s) shown below were combined and diluted to (mL): 100.0
5E-05 Balance Uncertainty
0.021 Flask Uncertainty

Solvent(s): Methanol
Lot# EH471-US

Formulated By: Prashant Chauhan DATE 011624	
Reviewed By: Pedro L. Rentas DATE 011624	

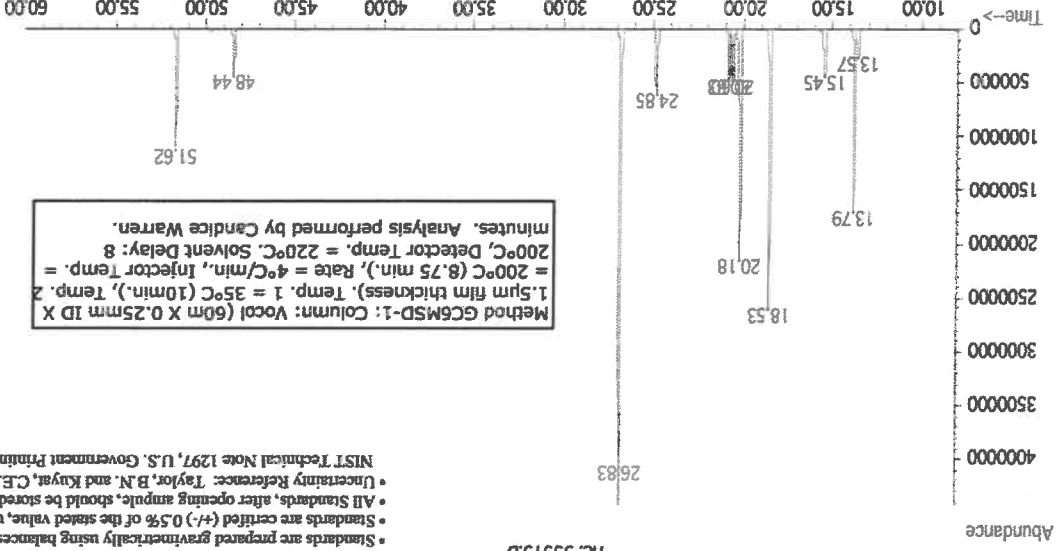
SDS Information

Expanded Uncertainty
(Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	or-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	or-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	N/A	or-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8h)	or-rat 8470mg/kg
5. 1,4-Dioxane	373	03953KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8h)(skdn)	or-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8h)(skdn)	or-gp 4870mg/kg
7. Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	or-mus 2250mg/kg
8. Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	or-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	or-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8h)	or-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	481	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	or-rat 6408mg/kg

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 * All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 * Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

TC: 95319.D



Name	(min.)	MSD RT
Methyl tert-butyl ether (MTBE)	13.56	
Acrylonitrile	13.79	
Di-isopropyl ether	15.44	
Propionitrile	18.53	
Tetrahydrofuran	20.17	
Cyclohexane	20.58	
1-Chlorobutane	20.83	
Methylcyclohexane	24.84	
1,4-Dioxane	26.84	
Hexachloroethane	48.44	
1,2,3,4-Tetramethylbenzene	51.62	



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021524**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: BUTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

		021524
Formulated By:	Mario Luis	DATE
		021524
Reviewed By:	Pedro L. Rentes	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

														SDS Information		
														(Solvent Safety Info. On Attached pg.)		
Compound	(RM#)	Lot	Dr.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	CAS#	OSHA PEL (TWA)	LD50
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc. (µg/mL)	(+/-) (µg/mL)			
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8h)	or-rat 2450mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102398	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8h)	or-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8581	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21080	2000.2	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP8041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-5	N/A	N/A
6. Diethyl ether	(0153)	JK18CASA000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	061826PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-83-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8716V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm (28mg/m3/8h) (skin)	or-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8h)	or-rat 2450mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	128-98-7	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	0.20042	2001.7	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	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8h)	or-rat 787mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8h) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20670	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	78-13-1	1000 ppm (7600mg/m3/8h)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-60-2	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 800mg/kg
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-36-4	1 ppm (4mg/m3/8h)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.8mg/m3/8h)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-06-3	N/A	or-rat 106mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	894-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8h) (final)	or-rat 262mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8h)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8h)	or-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8h)	or-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8h)	or-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	ure-mus 3600mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8h)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8h) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8h) (skin)	or-rat 836mg/kg
43. Trichloroethane	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8h)	or-mus 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8h)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-1	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8h)	or-rat 2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-8	N/A	or-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1300mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	95-63-6	N/A	or-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	or-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8h)	or-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8h)	or-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8h)	or-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA</						

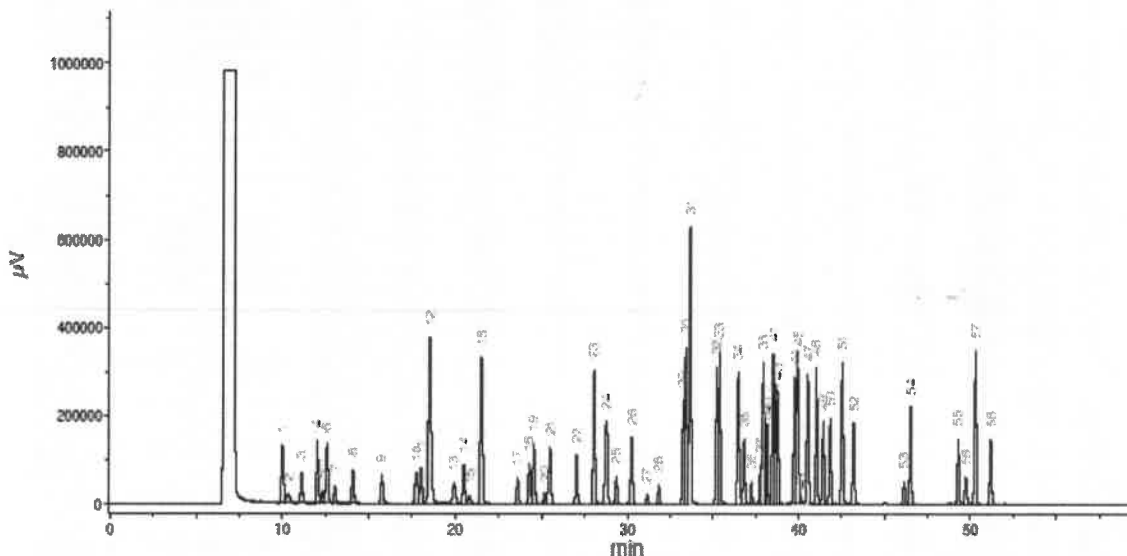


Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Voccol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.34
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	22.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,2-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.18
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.39
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	33.72
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.32
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16



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**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

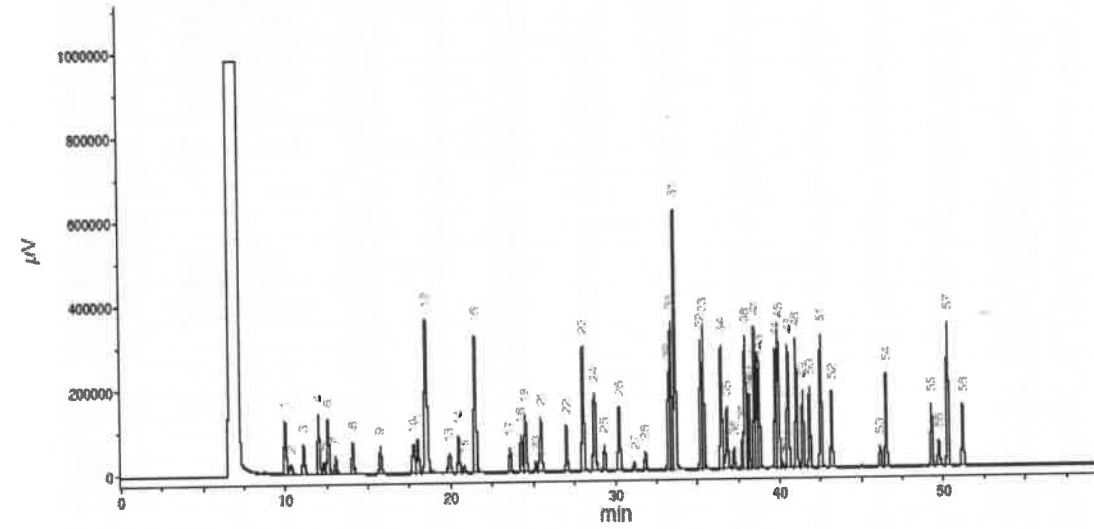
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

Compound	(RM#)	Lot Number	Di. Factor	Initial Vol. (mL)	Initial Conc. (µg/mL)	Nominal Conc. (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc. (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
														CAS#	OSHA PEL (TWA)	LD50
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
Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
Carbon disulfide	(0060)	MKCR8581	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
cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
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
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
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	or-rat 14800mg/kg
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 70mg/kg
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 3480mg/kg
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
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
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
Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
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
Pentachloroethane	(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
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
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 910mg/kg
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
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
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
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
1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
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
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
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
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
1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg
1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.2	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A
cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
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
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
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 836mg/kg
2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	80 ppm (270mg/m3/8H)	or-rat 2400mg/kg
Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg
Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	1 ppm	or-rat 4694mg/kg
n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-88-1	N/A	or-rat 2699mg/kg
Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
Tyrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
Toluene	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
2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-88-3	200 ppm	or-rat 5000mg/kg
2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	or-rat 1390mg/kg
2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	95-63-6	N/A	or-rat 5g/kg
Xylene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-67-8	N/A	or-rat 5000mg/kg
tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	100 ppm (435mg/m3/8H)	or-rat 5g/kg
sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	N/A
Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-49-8	75 ppm (350mg/m3/8H)	or-rat 2240mg/kg
Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	108-90-7	50 ppm (250mg/m3/8H)	or-rat 2290mg/kg
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 3900mg/kg
2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	78 ppm (300mg/m3) (CL)	or-rat 500mg/kg
4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	96-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
propylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	78 ppm (450mg/m3/8H)	or-rat 500mg/kg
propylbenzene	35163	101923	0.05													

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-Hitroprene	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	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/Bromofonn	36.18
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	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**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

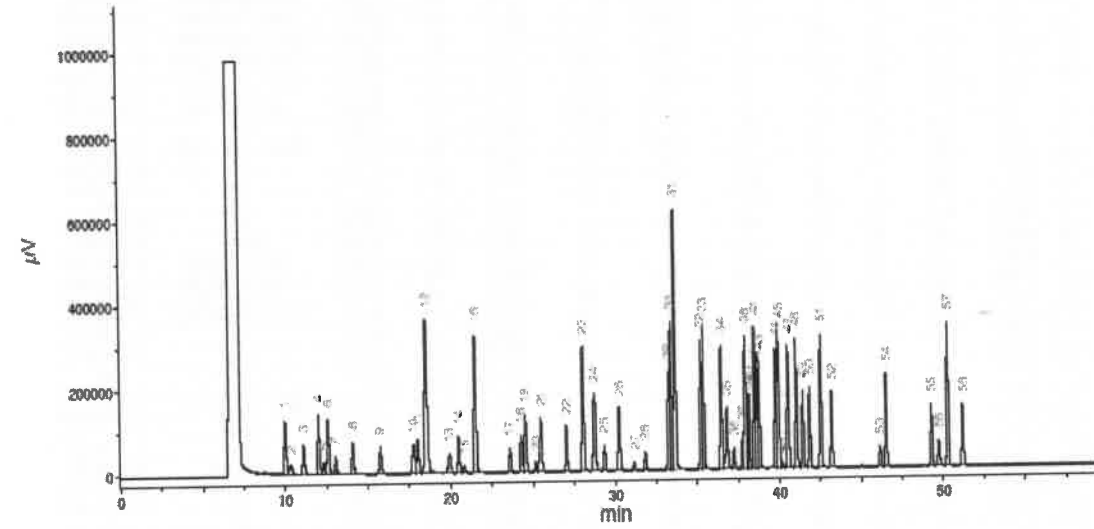
		021624
Formulated By:	Prashant Chauhan	DATE
		021624
Reviewed By:	Pedro L. Rentes	DATE

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)	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	(0461)	14002JK	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	74-95-3	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	2000.2	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	2000.2	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-Dichloropropane	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 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	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	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	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	1999.7	22.9	108-98-3	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	N/A
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.7	22.9			

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-Hitroprene	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	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	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	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:
Lot Number:
Description:

95319
032922
Revised Additions Mix

Solvent(s):
Methanol
Lot#
EC592-US

11 components

Expiration Date:

Recommended Storage:

Nominal Concentration (µg/mL):

NIST Test ID#:

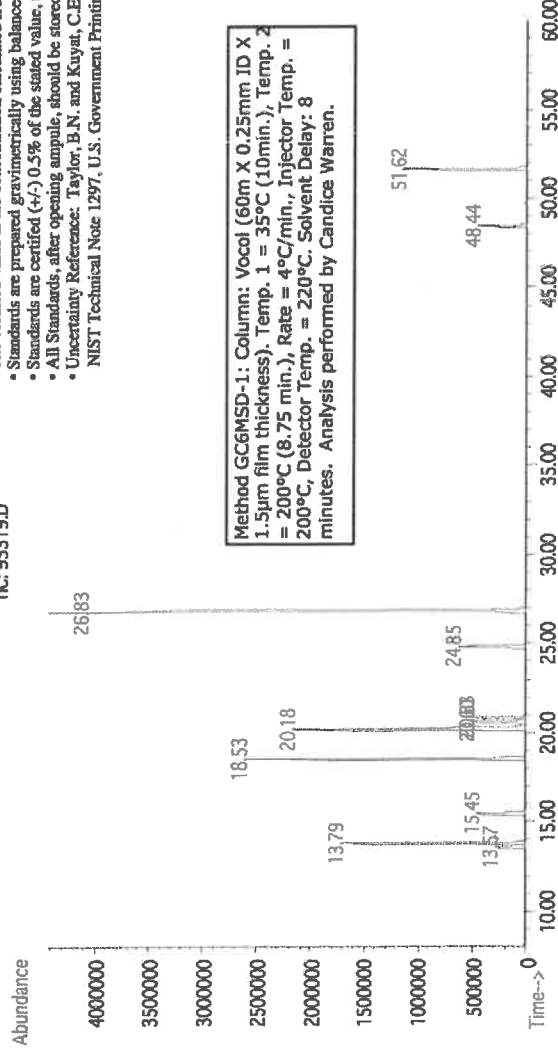
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.012 Flask Uncertainty

Formulated By:	Prashant Chauhan	032922	DATE
Reviewed By:	Pedro L. Rentas	032922	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
										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/m ³ /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/m ³ /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/m ³ /8h)(skin) orl-rat 8470mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20203	0.20213	2001.0	8.2	67-72-1	1 ppm (10mg/m ³ /8h)(skin) orl-rat 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/m ³ /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

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 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water
  	Signal Word: DANGER		

Section III - Composition

Components:	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.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Flammability
Suitable extinguishing media
Protective equipment for fire
Wear self contained breathing apparatus for fire fighting if necessary.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
heat/sparks/open flame/hot surface. No smoking.

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.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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.
Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).
Clean up

Section VII. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
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
TWA 200 ppm
Skin notation
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

Section X. STABILITY AND REACTIVITY			
Solubility in Water			
COMPLETE			
Appearance and Odor			
CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.			
Boiling Point			
65°C			
Vapor Pressure (mm Hg)			
96			
Vapor Density (AIR = 1)			
1.11			
Melting Point			
-98°C			
Specific Gravity (H ₂ O = 1)			
0.79			
Evaporation rate (Butyl Acetate = 1)			
4.6			

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 XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.	
LD50 Oral - rat - 5,628 mg/kg	
LC50 Inhalation - rat - 4 h - 6400 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 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 XIV. TRANSPORT 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 XV. REGULATORY INFORMATION	
OSHA Hazards	
Flammable liquid, Target Organ Effect, Toxic by inhalation, 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 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.	



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

95319
032922
Revised Additions Mix
11 components

Solvent(s):
Methanol
Lot#
EC592-US

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

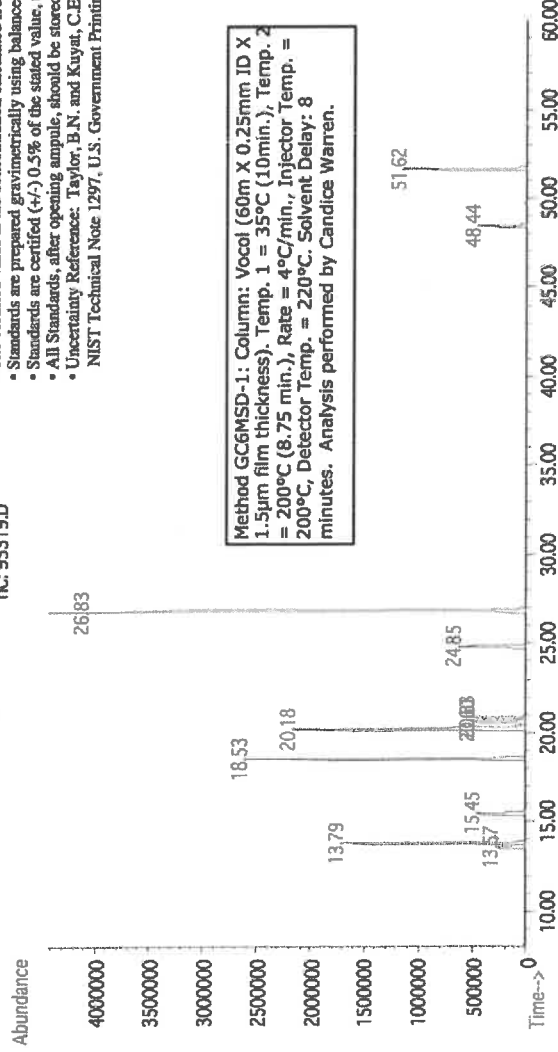
032925
Refrigerate (4 °C)
Varied
6UTB
5E-05 Balance Uncertainty
0.012 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0

Formulated By:	Prashant Chauhan	032922	DATE
Reviewed By:	Pedro L. Rentas	032922	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.)	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 orl-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 orl-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) orl-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) orl-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) 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	02197JJ	2000	99.8	0.2	0.20041	0.20055	2001.4	8.1	1634-04-4	N/A orl-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02030	2.02045	20001.5	81.0	107-12-0	N/A orl-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) orl-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 orl-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

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

Emergency Telephone USA & CANADA 1-800-535-5053

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
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	OSHA PEL	% (optional)
67-56-1	2,769 mg/kg	200 ppm	> 99

Methanol

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.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability
Suitable extinguishing media
Protective equipment for fire
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.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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.
Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).
Clean up

Section VII. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
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
TWA 200 ppm
Skin notation
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

Section X. STABILITY AND REACTIVITY			
Solubility in Water			
COMPLETE			
Appearance and Odor			
CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.			
Boiling Point			
65°C			
Vapor Pressure (mm Hg)			
96			
Vapor Density (AIR = 1)			
1.11			
Melting Point			
-98°C			
Specific Gravity (H ₂ O = 1)			
0.79			
Evaporation rate (Butyl Acetate = 1)			
4.6			

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 XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.	
LD50 Oral - rat - 5,628 mg/kg	
LC50 Inhalation - rat - 4 h - 6400 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 XIII. DISPOSAL CONSIDERATIONS	
Dispose with normal Laboratory Solvent Waste.	
Section XIV. TRANSPORT 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 XV. REGULATORY INFORMATION	
OSHA Hazards	
Flammable liquid, Target Organ Effect, Toxic by inhalation, 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 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.	



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **111722**
Description: **2-Chloroethyl vinyl ether**

Solvent(s): **Lot#**
Methanol **EB679-US**

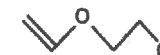
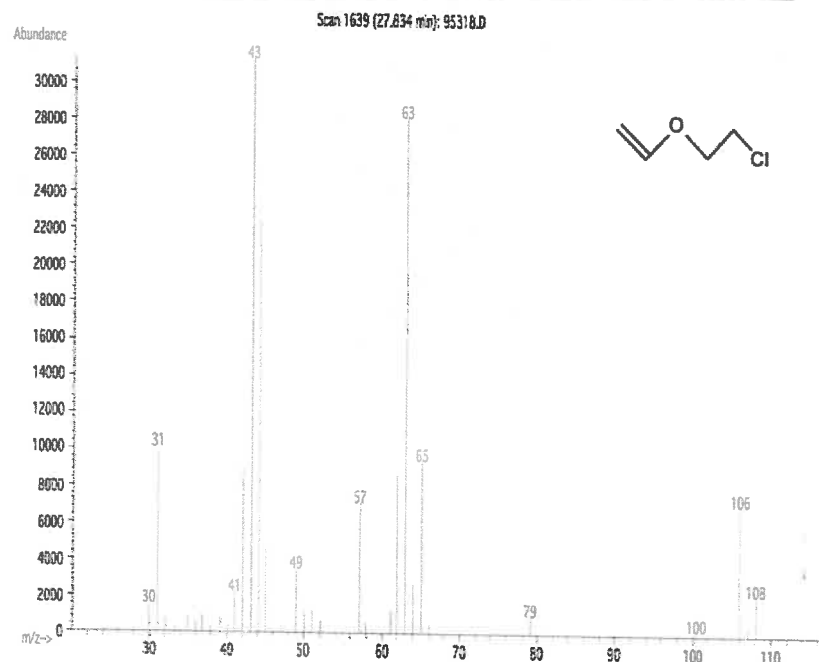
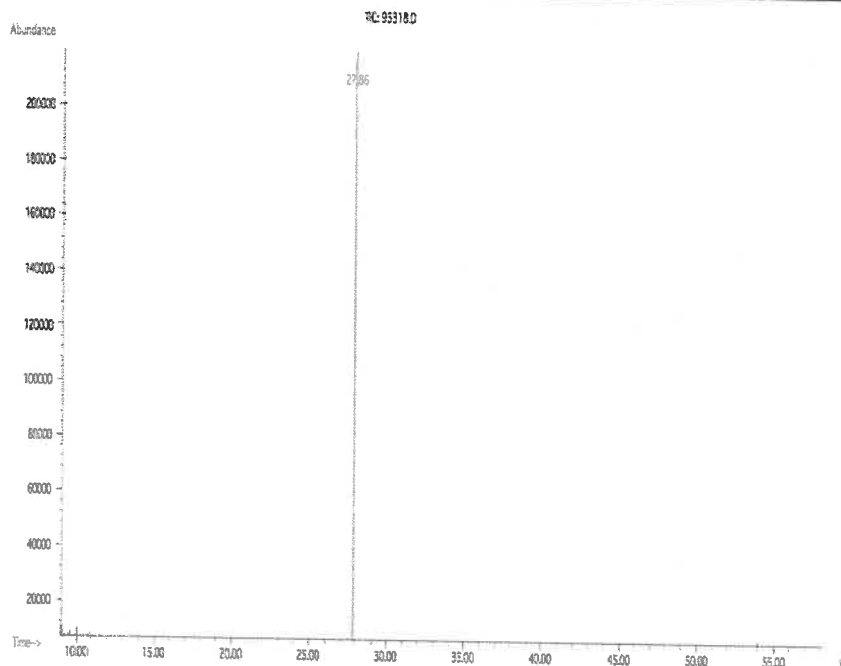
Expiration Date: **111725**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM

Rec 12/6/24



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
120424
Acrolein

Solvent(s):
Water

Lot#
072324Q

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

010425
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

14655-56

2 vial

Formulated By:	Justin Dippold	120424	DATE
Reviewed By:	Pedro L. Reritas	120424	DATE

Expanded
Uncertainty
(Solvent Safety Info. On Attached pg.)

SDS Information

Conc (µg/mL) (+/-) (µg/mL) CAS# OSHA PEL (TWA) LD50

1. Acrolein	5	103755V10F	5000	97	0.5	0.05186	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 48mg/kg

Method: GC/MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (50m 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 Reritas. 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

Abundance

27

250000

8.93

200000



56

150000

100000

50000

37

158 169

119

85

65 75

44

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

m/z-->

60.0

55.00

50.00

45.00

40.00

35.00

30.00

25.00

20.00

15.00

10.00

Time-->

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM

Rec 12/6/24



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
120424
Acrolein

Solvent(s):
Water

Lot#
072324Q

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

010425
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

14655-56

2 vial

Formulated By:	Justin Dippold	120424	DATE
Reviewed By:	Pedro L. Reritas	120424	DATE

Expanded
Uncertainty
(Solvent Safety Info. On Attached pg.)

SDS Information

Conc (µg/mL) (+/-) (µg/mL) CAS# OSHA PEL (TWA) LD50

1. Acrolein	5	103755V10F	5000	97	0.5	0.05186	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 48mg/kg

Method: GC/MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (50m 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 Reritas. 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

Abundance

27

250000

8.93

200000



56

150000

100000

50000

37

158 169

119

85

65 75

44

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

m/z-->

60.0

55.00

50.00

45.00

40.00

35.00

30.00

25.00

20.00

15.00

10.00

Time-->

- 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).



Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

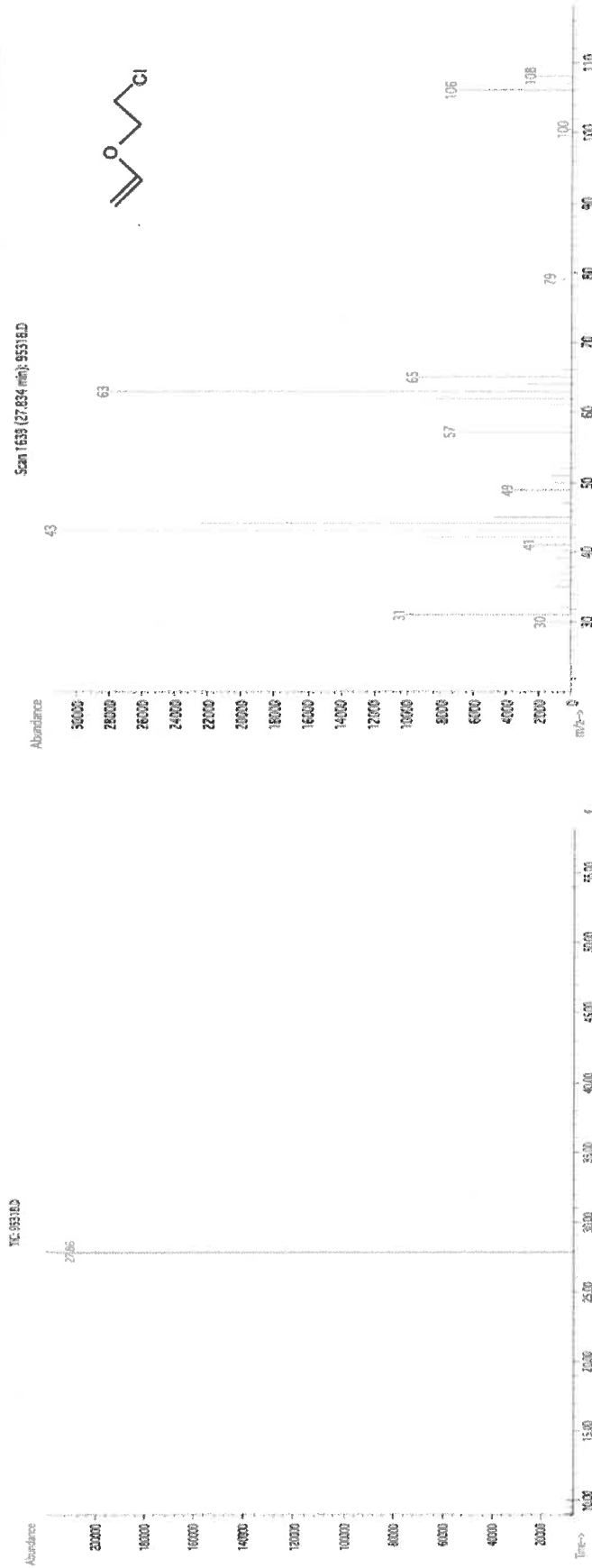
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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 Rosotto Dr. Hamden CT. 06514	Emergency Telephone International Date Prepared/Revised	1-352-323-3500 January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face 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))	CAS#	% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1
		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm		
Skin notation	TWA 200 ppm		
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (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:
Lot Number:
Description:

95318
120524
2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

120527
Refrigerate (4 °C)
10000
6UTB

Weight(s) shown below were combined and diluted to (mL):

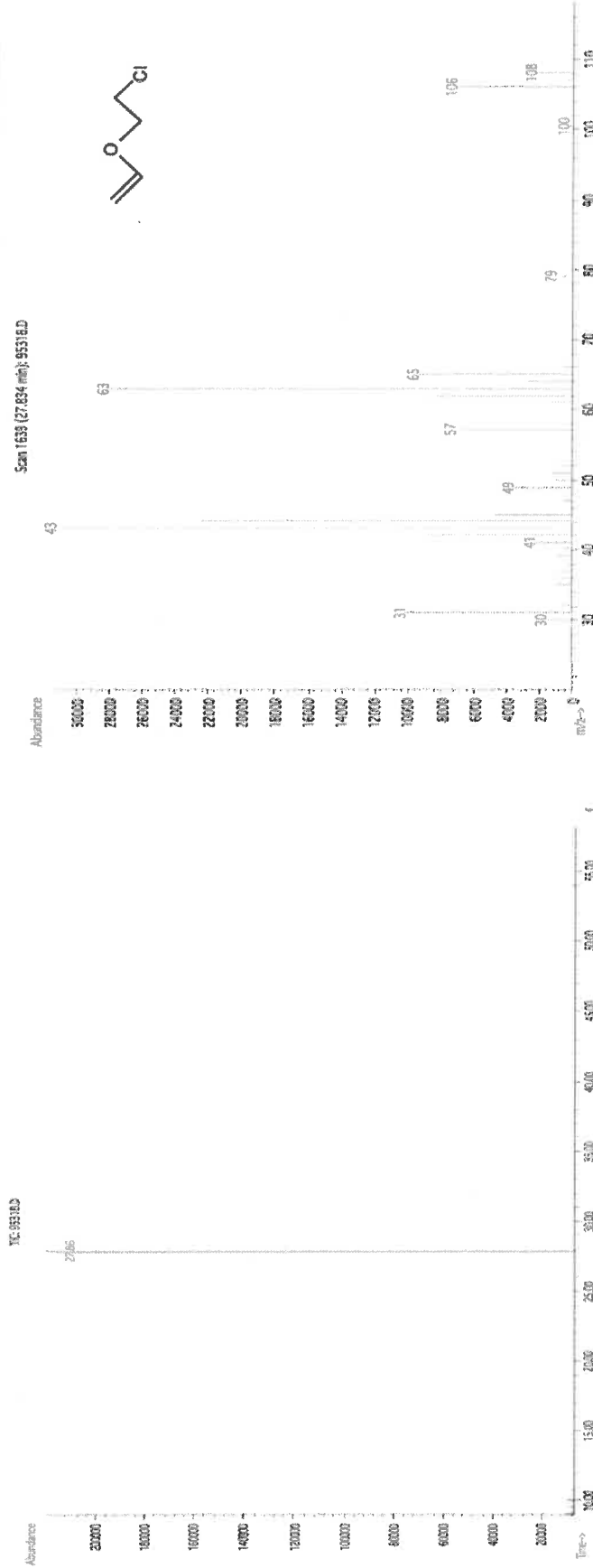
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Prashant Chauhan 120524 DATE
Reviewed By: Pedro L. Rentas 120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT. 06514	Emergency Telephone International Date Prepared/Revised	1-352-323-3500 January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face 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))	CAS#	% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1
		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm		
Skin notation	TWA 200 ppm		
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (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.



See 1216124
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

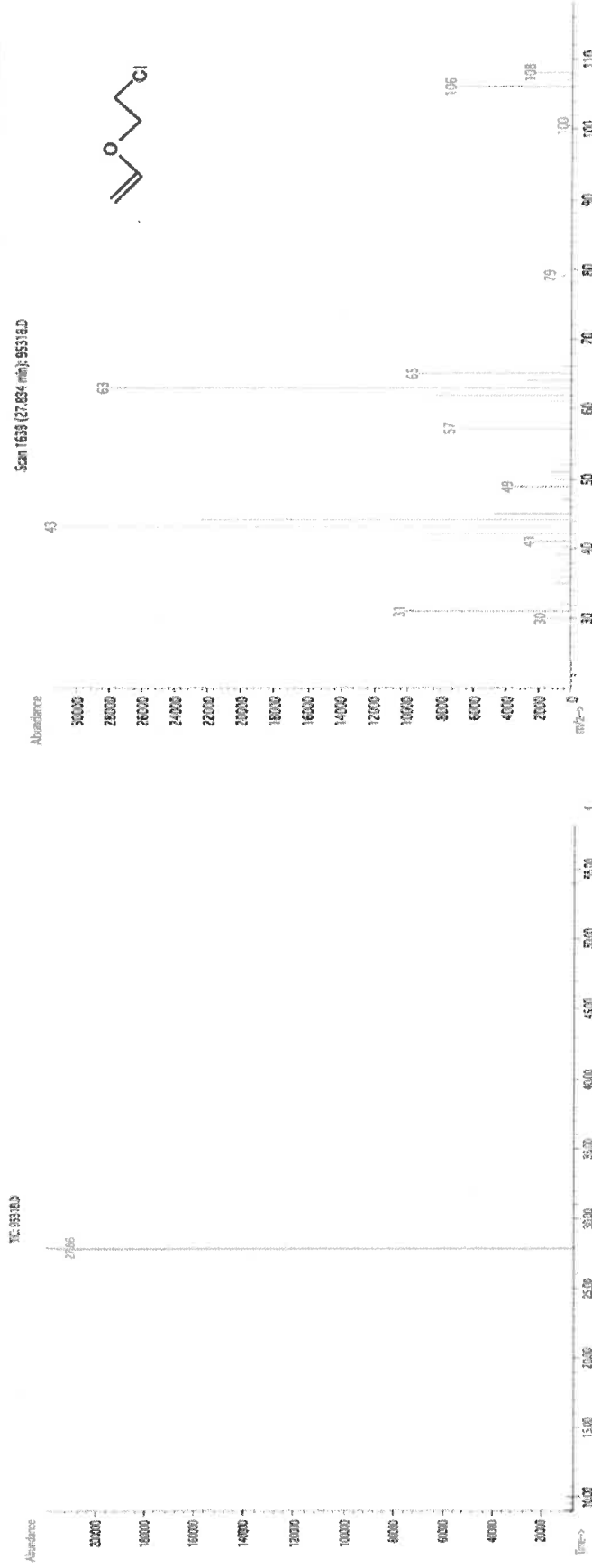
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	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.



Dec 12/16/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

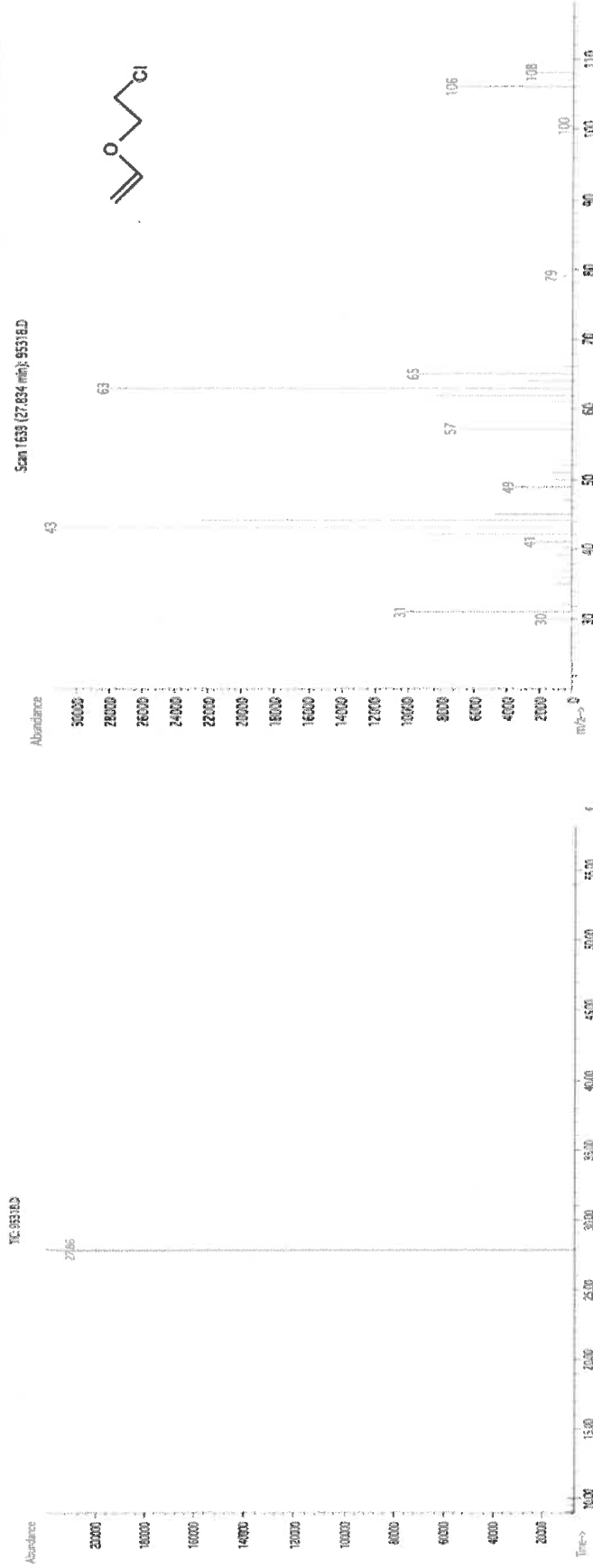
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Uncertainty (±) (µg/mL) CAS# OSHA PEL (TWA) LDSO

SDS Information

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	or-rat 250mg/kg
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	N/A

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



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* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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GHS/OSHA Compliant

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Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rosotto Dr. Hamden CT. 06514	Emergency Telephone International Date Prepared/Revised	1-352-323-3500 January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face 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))	CAS#	% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1
		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm		
Skin notation	TWA 200 ppm		
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (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
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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

See 1216124



CERTIFIED WEIGHT REPORT

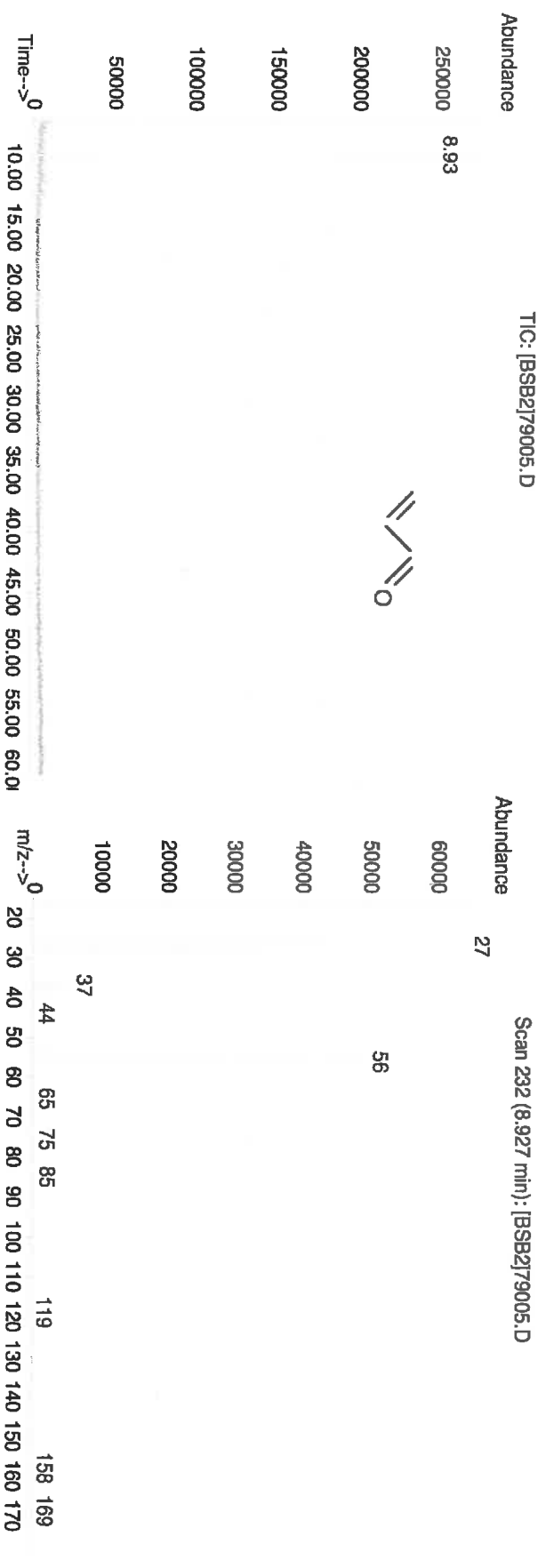
Part Number: 91980
Lot Number: 120524
Description: Acrolein
Expiration Date: 01/05/25
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water
Lot# 072324Q
Balance Uncertainty: 0.002
Flask Uncertainty: 0.002

Formulated By:	Prashant Chauhan	120524
Reviewed By:	Pedro L. Rentes	120524
DATE		

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL) (+/-) (µg/mL)	Expanded Uncertainty (Solute Safety Info. On Attached pg.)	SDS Information	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.10307	0.10320	5006.1	51.8	107-02-8	0.1 ppm

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentes, NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		Eye protection.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

See 1216124



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein
Expiration Date: 01/05/25
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

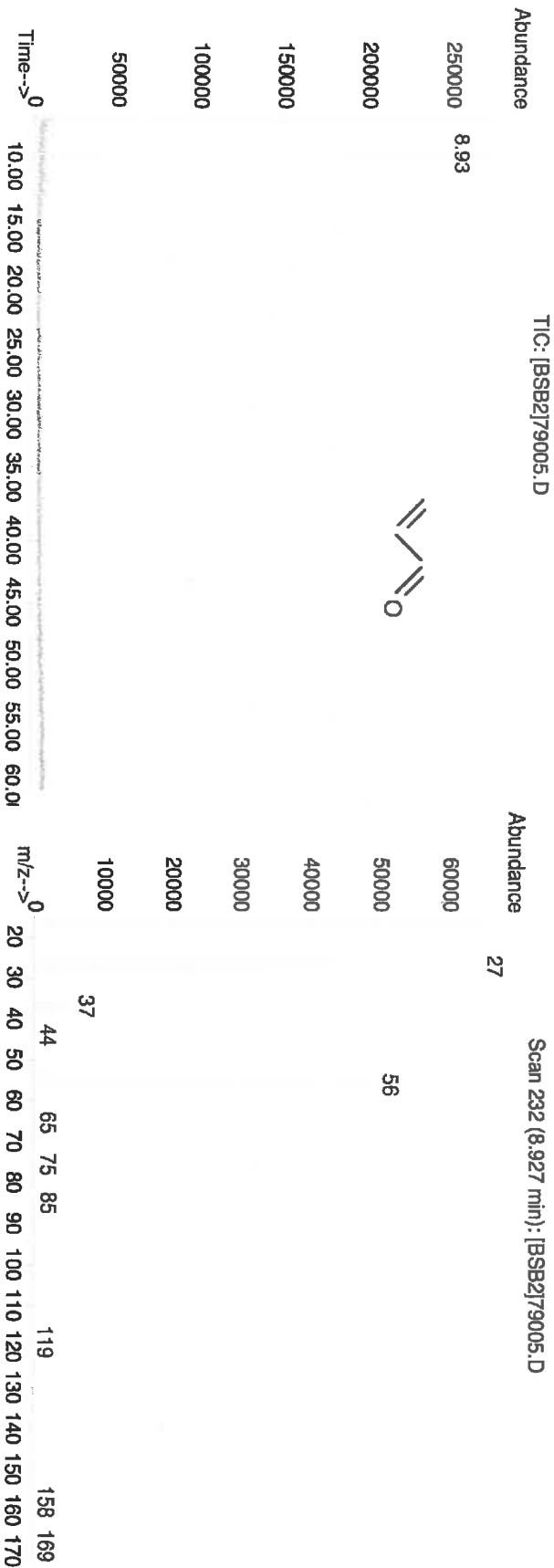
Solvent(s): Water
Lot# 072324Q
Balance Uncertainty: 0.002
Flask Uncertainty: 0.002

Formulated By:	Prashant Chauhan	120524
Reviewed By:	Pedro L. Rentes	120524
DATE		

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL) (+/-) (µg/mL)	Expanded Uncertainty (Solute Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. Acrolein 5 103755R02H 5000 97 0.5 0.10307 0.10320 5006.1 51.8 107-02-8 0.1 ppm 0.1 rat 48mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentes, NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N., and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

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Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
		Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible	NA	NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

See 1216124



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 120524
Description: Acrolein
Expiration Date: 01/05/25
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

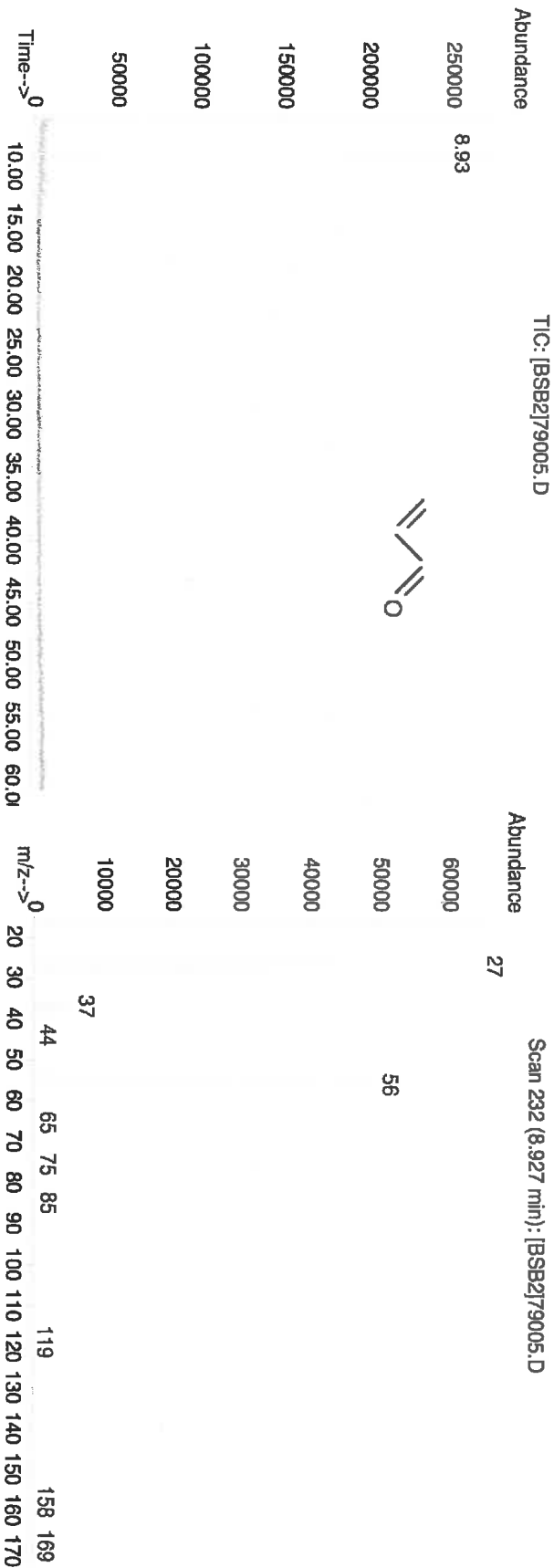
Solvent(s): Water
Lot# 072324Q
Balance Uncertainty: 0.002
Flask Uncertainty: 0.002

Formulated By:	Prashant Chauhan	120524
Reviewed By:	Pedro L. Rentes	120524
DATE		

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL) (+/-) (µg/mL)	Expanded Uncertainty (Solute Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. Acrolein 5 103755R02H 5000 97 0.5 0.10307 0.10320 5006.1 51.8 107-02-8 0.1 ppm 0.1 rat 48mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentes, NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



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Safety Data Sheet (SDS)

GHS/OSHA Compliant

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Address	44 Rossetto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
		Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible	NA	NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance



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)	50,126.0 µg/mL	+/-	293.4988	µg/mL	Gravimetric
	CAS # 75-65-0		+/-	1,073.7654	µg/mL	Unstressed
	Purity 99%		+/-	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.)

Inj. Temp:

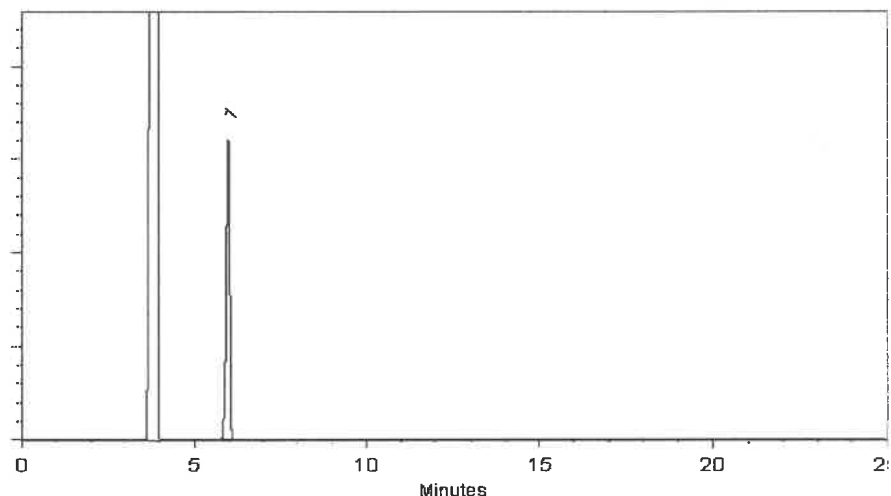
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 Lot No.: A0191703
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : November 30, 2025 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot 101619K21F-1)	50,122.0 µg/mL	+/- 293.4753 µg/mL Gravimetric +/- 1,073.6797 µg/mL Unstressed +/- 1,104.8612 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

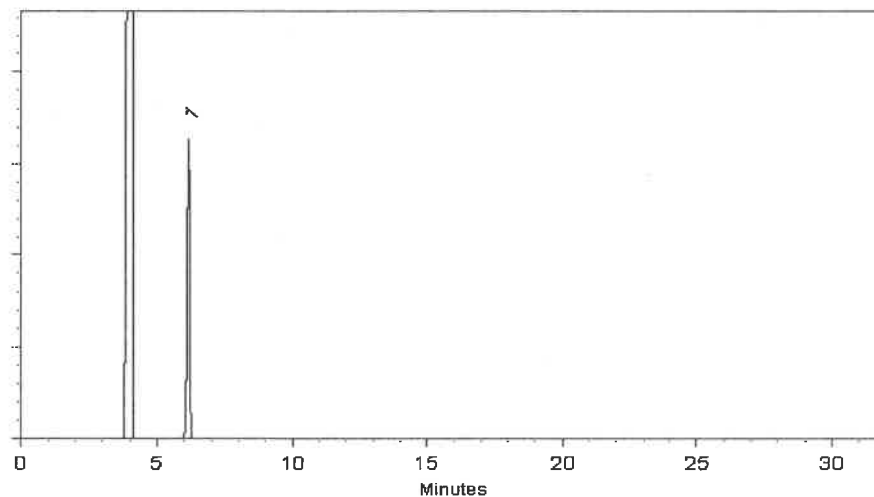
200°C

Det. Temp:

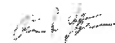
250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified 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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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:

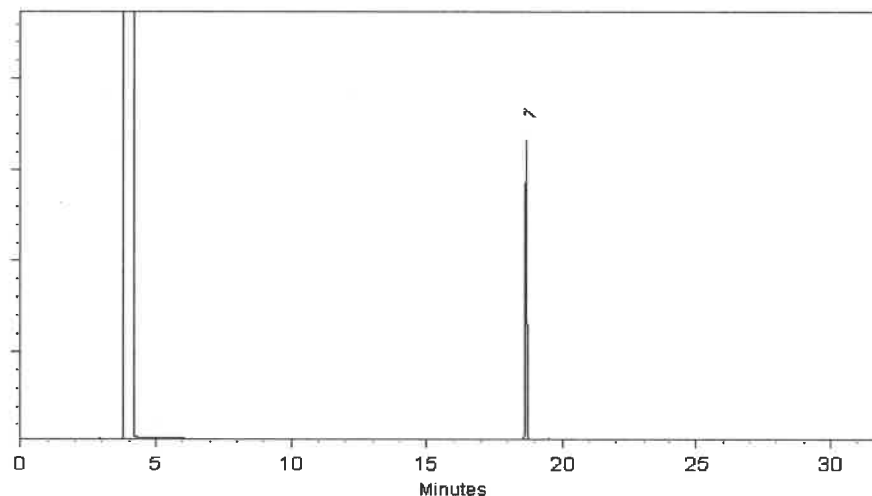
FID

Split Vent:

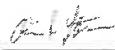
40 ml/min

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:

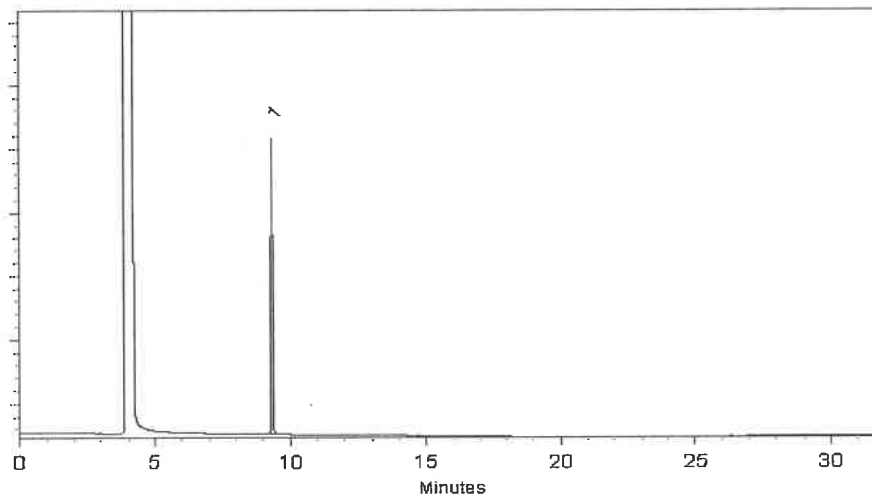
FID

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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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:

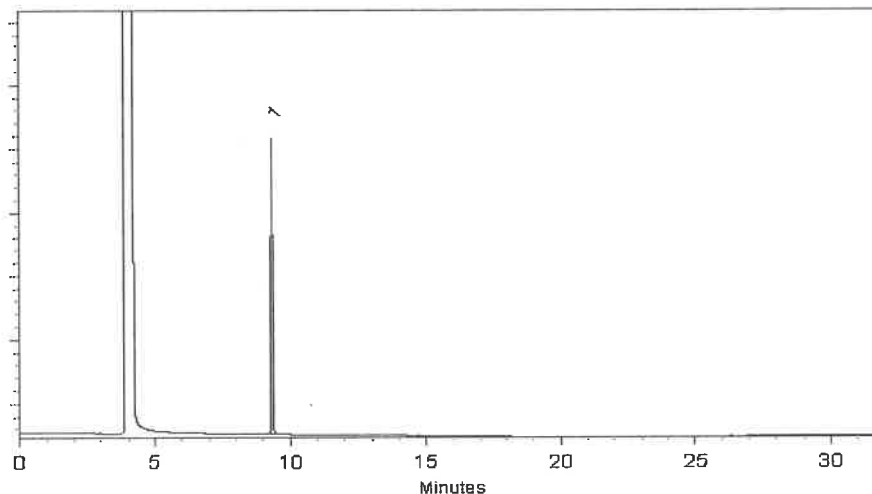
FID

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.
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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:

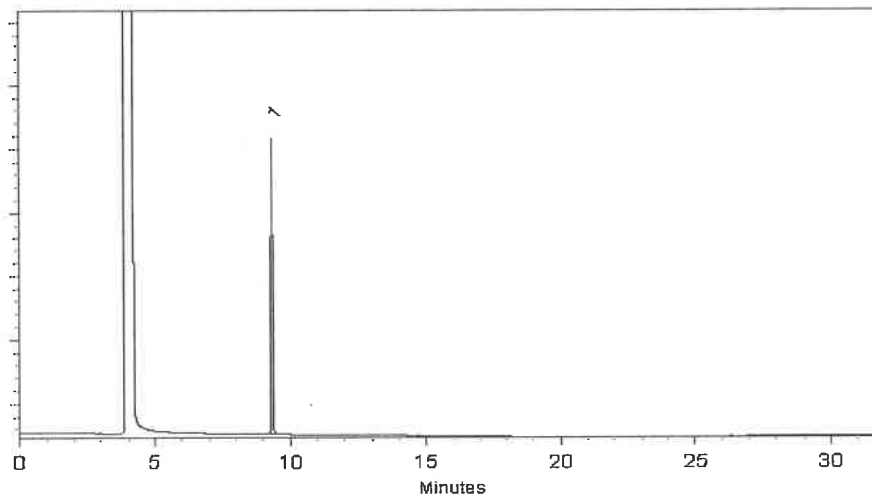
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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:

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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- 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:

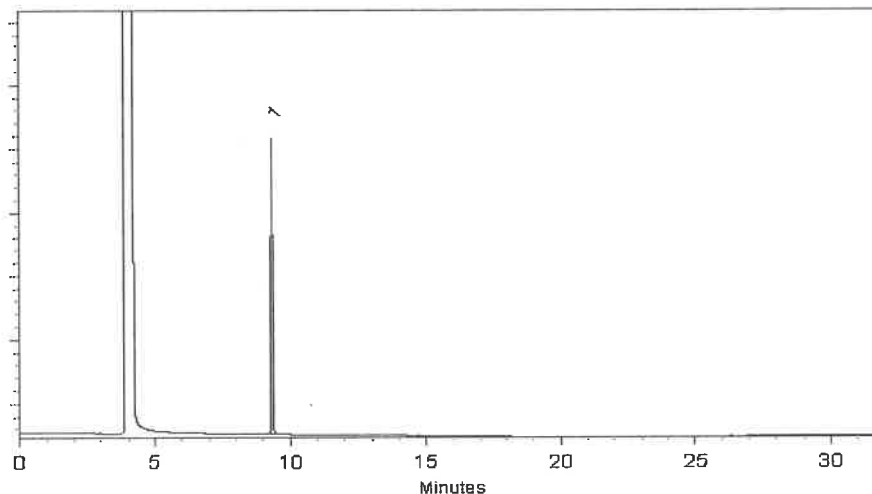
FID

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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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.: A0193887
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 : April 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%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* 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:

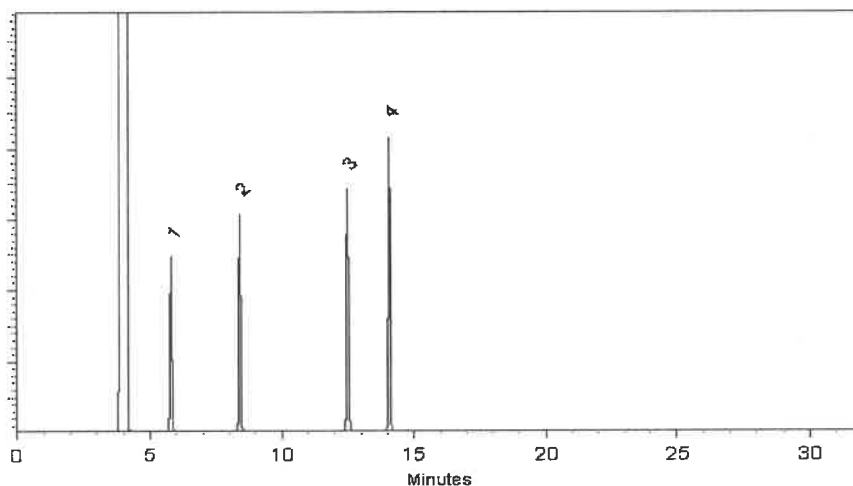
FID

Split Vent:

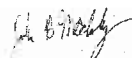
40 ml/min

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.


Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-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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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:

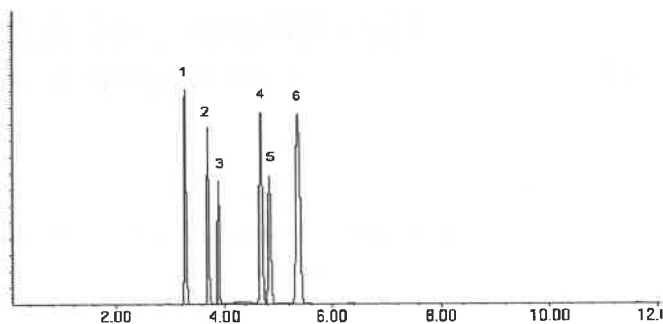
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



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.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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 - 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:

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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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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.:** A0197644

Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2030 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

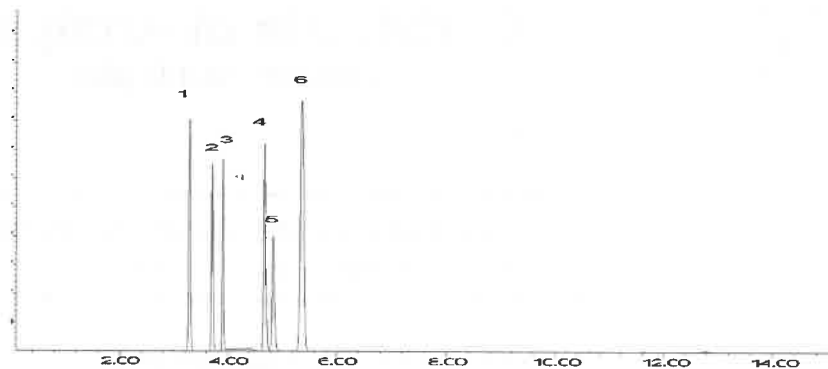
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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:

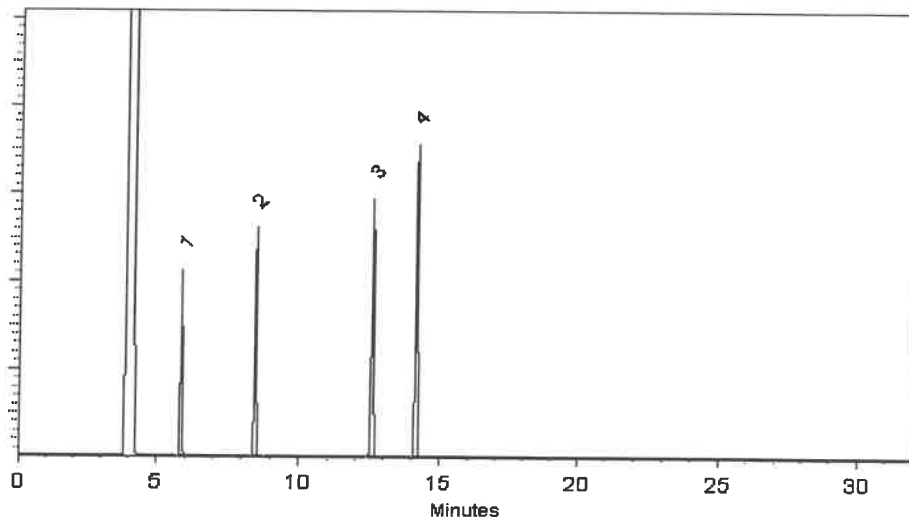
FID

Split Vent:

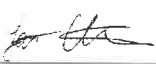
40 ml/min

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.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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:

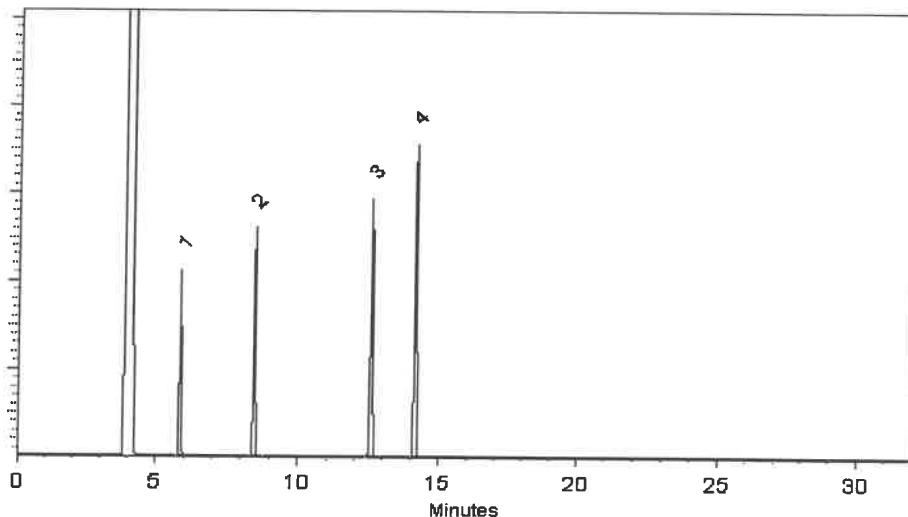
FID

Split Vent:

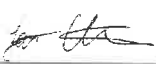
40 ml/min

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.



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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:

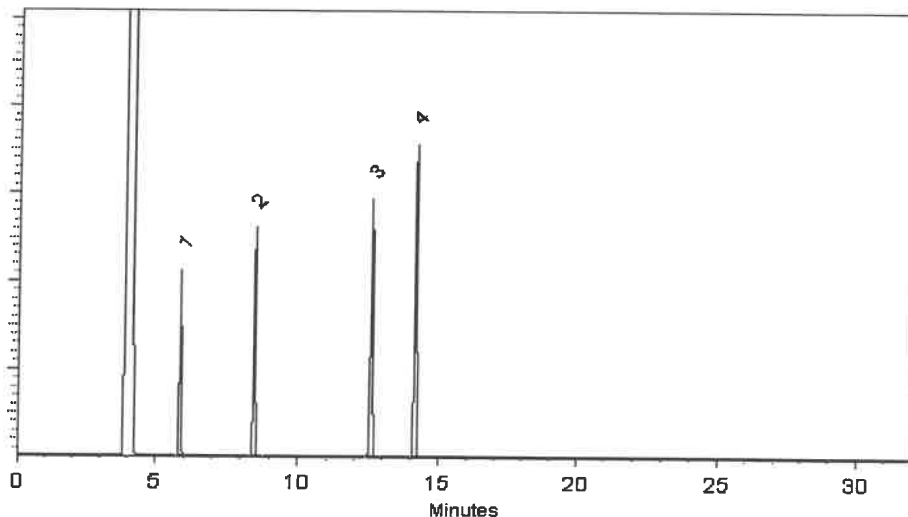
FID

Split Vent:

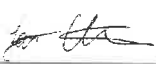
40 ml/min

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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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.:** A0205013
Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2025 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,012.7 µg/mL	+/- 69.5670
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,017.5 µg/mL	+/- 69.7338
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,020.0 µg/mL	+/- 69.8205
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,018.7 µg/mL	+/- 69.7744
5	Propyl acetate	109-60-4	KLOBM	99%	2,012.0 µg/mL	+/- 69.5439
6	Butyl acetate	123-86-4	SHBP6314	99%	2,020.0 µg/mL	+/- 69.8205
7	Amyl acetate	628-63-7	41325/1	97%	2,019.5 µg/mL	+/- 69.8046

* 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:

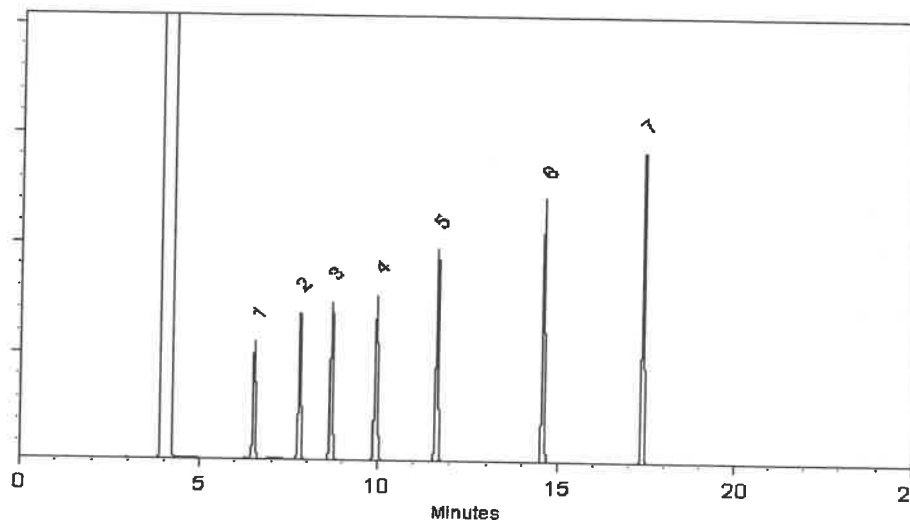
FID

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.


Brittany Federinko - Operations Tech I

Date Mixed: 04-Dec-2023 Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-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.
- 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. : 555408-FL **Lot No.:** A0205177
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%	8,047.8 µg/mL	+/- 278.1675

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

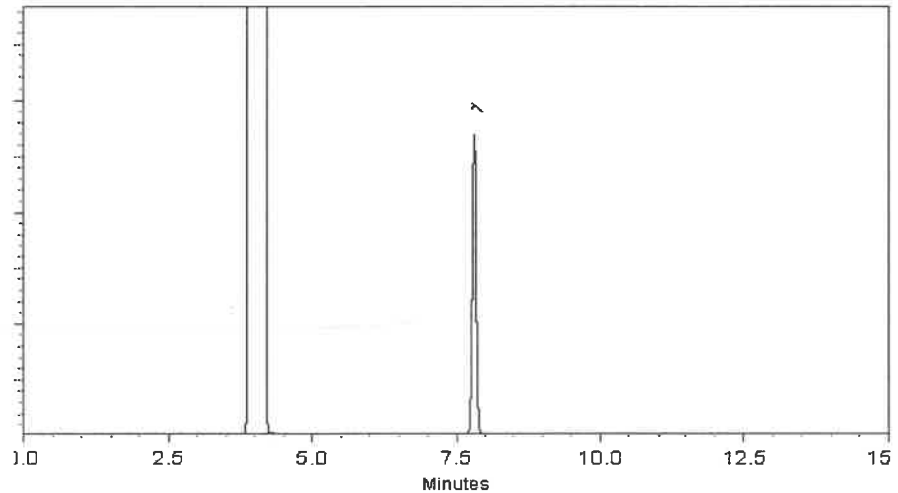
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 06-Dec-2023

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Dec-2023

APPROVED
By the Instrumentation & QA Dept. (11/15/23)

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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12
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 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:

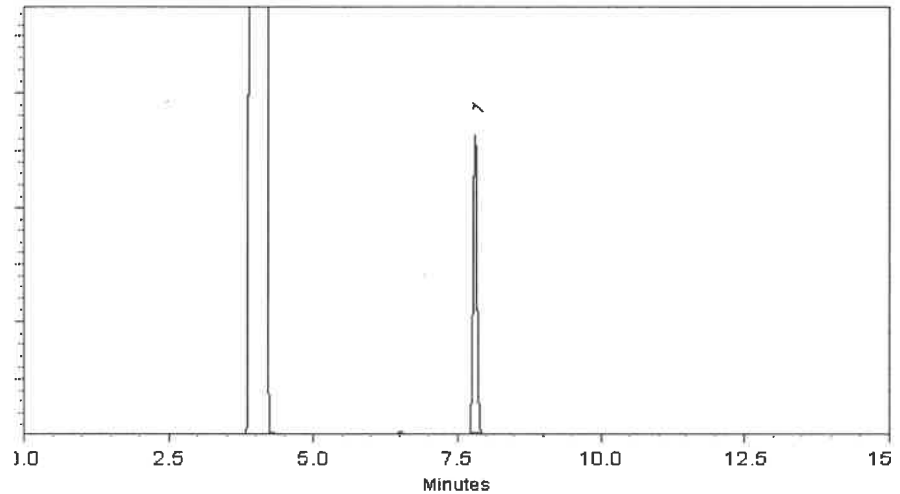
FID

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.
- 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. : 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:

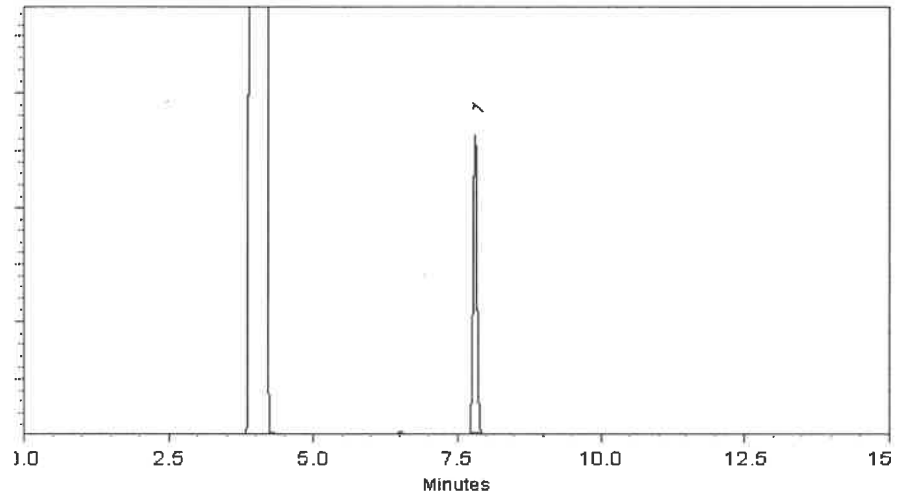
FID

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.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

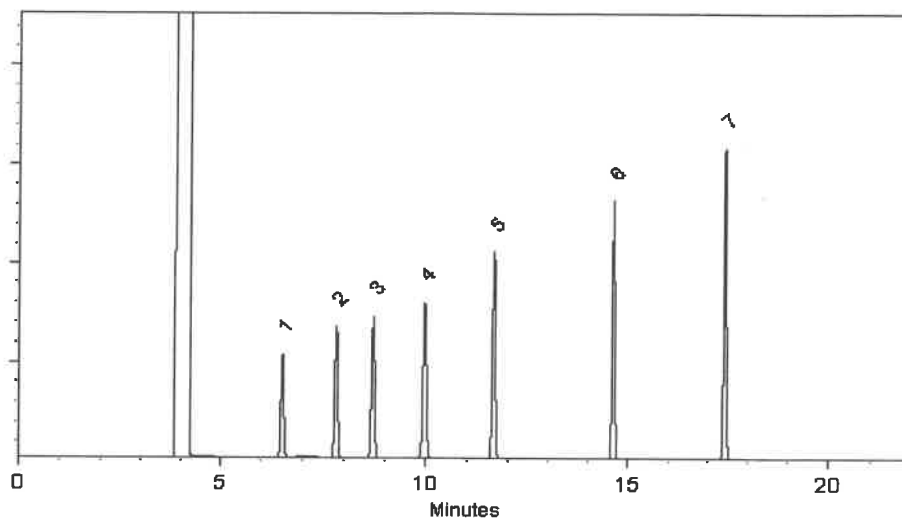
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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:

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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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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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. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
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* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

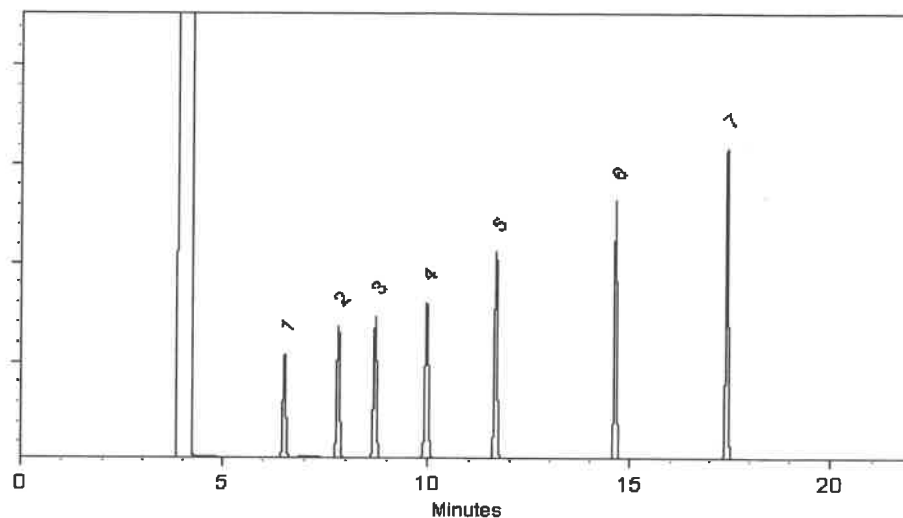
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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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:

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Handling Notes:

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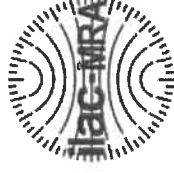
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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555581 **Lot No.:** A0210184

Description: Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size: 2 mL **Pkg Amt:** > 1 mL

Expiration Date: April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 11275.10105



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

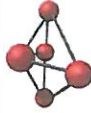
- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

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Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **70046**
Lot Number: **070122**
Description: **Bromochloromethane**

Solvent: **Methanol**
Lot# **EC592-US**

Expiration Date: **070127**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **1000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **25.0**

5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

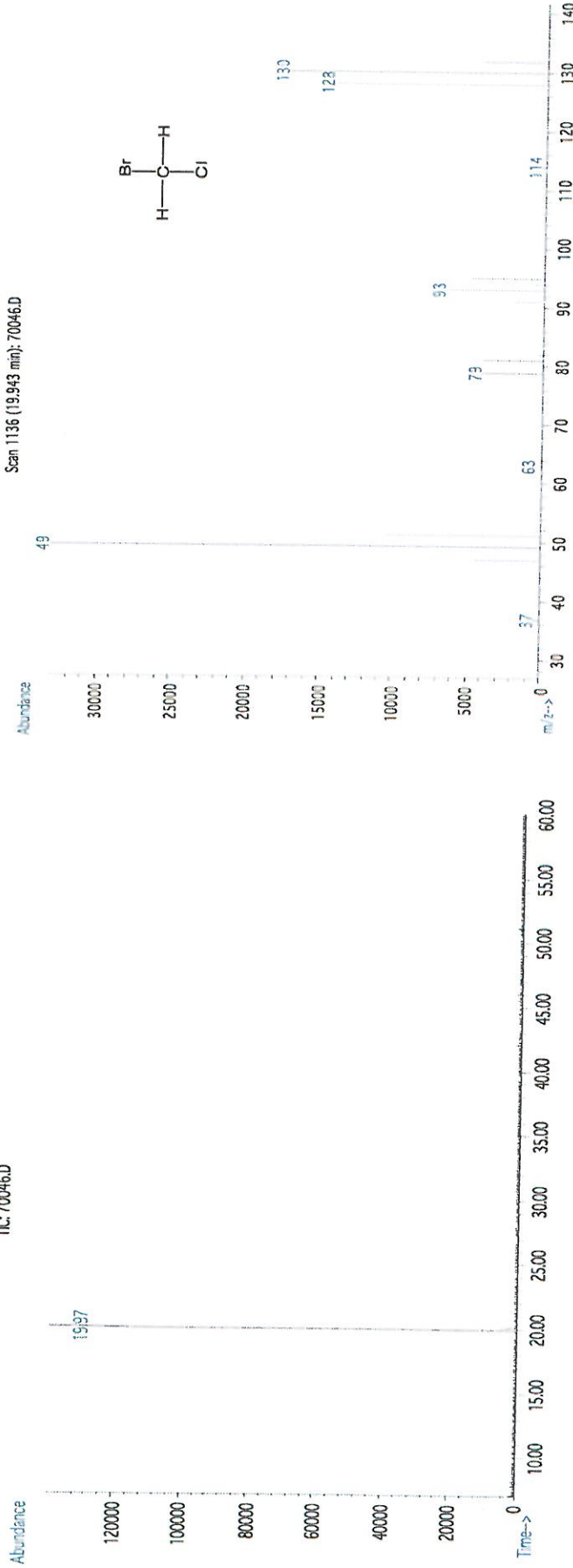
Formulated By: <i>Gabriel Helland</i>	070122
DATE	
Reviewed By: <i>Pedro L. Rentas</i>	070122
DATE	

SDS Information

Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
(+/-) (µg/mL) CAS# OSHA PEL (TWA) LD50

Compound	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m ³ /8H)	ori-rat 5000mg/kg
1. Bromochloromethane												
Method GC/MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren												

TIC: 70046.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 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).

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
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Methanol
ULTRA RESI-ANALYZED
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500 Series for Drinking Water
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846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS

P5380



Weston COC ID
Weston_20241220

Chain of Custody Record/Lab Work Request

Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Project Name:	Fort Meade RI	Project POC:	Nathan Fretz
PO Number	0111169	Phone:	464-524-5665
W.O. #:		POC e-mail:	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	Lab POC:	Jordan Hedvat
TAT (days):	7	Lab Phone:	908-728-3144
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Matrix Codes	
SB-	Soil
SE -	Sediment
SO -	Solid
SL -	Sludge
GW -	Groundwater
W -	Water
O -	Oil
A -	Air
DS -	Drum Solids
DL -	Drum Liquids
L -	EP/TCLP Leachate
WI -	Wipe
X -	Other
F -	Fish

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate properly preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

Analyses Requested:	TCLP VOCs by EPA 8260D (1311)	TCLP SVOCs by EPA 8270E (1311)	TCLP Metals by EPA 6010D/7470A	TCLP Pesticides by EPA 8081B	TCLP Herbicides by EPA 8151A	Total Sulfide by EPA 9034	Total Cyanide by EPA 9012E	PCB by EPA 8082A	Ignitability by EPA 1030	pH by EPA 9045D		
	Container Type:	Encore	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass		
	Container Size:	25g	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz		
	Preservative:	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6		

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected											Special Instructions/Comments
1	TAPIAL3-IDW-Soil-122024-T1	c	DS	6	no	12/20/2024	14:15	X	X	X	X	X	X	X	X	X	X	expedited 7 day TAT
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Shipping Airbill Number(s):						Cooler Number:		1	of	1
Relinquished By	Date	Time	Received By	Date	Time	Additional Comments				
1.) <i>Sub R/V</i>	12/20/24	18W	<i>Reen</i>	12/21/24	11:00	QSM 6.0 Compliant Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD				
2.)					2-3					
3.)										



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488