

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

LAB CHRONICLE

OrderID:	Q1804	OrderDate:	4/14/2025 12:12:00 PM
Client:	Tully Environmental, Inc	Project:	Transfer Station-SPDES
Contact:	Dean Devoe	Location:	L31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1804-01	001-WILLETS-PT-BLV D(APR)	Water	VOC-BTEX	624.1	04/10/25		04/14/25	04/14/25
Q1804-02	002-35TH-AVE(APR)	Water	VOC-BTEX	624.1	04/10/25		04/14/25	04/14/25

Hit Summary Sheet
SW-846

SDG No.: Q1804
Client: Tully Environmental, Inc

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	001-WILLETS-PT-BLVD(APR)							
Q1804-01	001-WILLETS-PT-BLVD Water	Toluene		31.9		0.46	5.00	ug/L
		Total Voc :		31.9				
		Total Concentration:		31.9				
Client ID:	002-35TH-AVE(APR)							
Q1804-02	002-35TH-AVE(AP Water	Toluene		39.8		0.46	5.00	ug/L
		Total Voc :		39.8				
		Total Concentration:		39.8				



QC SUMMARY

Surrogate Summary

SDG No.: Q1804

Client: Tully Environmental, Inc

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1804-01	001-WILLETS-PT-BLVD(APR)	1,2-Dichloroethane-d4	30	30.3	101	91	110
		Toluene-d8	30	29.8	99	91	112
		4-Bromofluorobenzene	30	28.8	96	63	112
Q1804-02	002-35TH-AVE(APR)	1,2-Dichloroethane-d4	30	30.9	103	91	110
		Toluene-d8	30	29.8	99	91	112
		4-Bromofluorobenzene	30	29.1	97	63	112
VN0414WBL01	VN0414WBL01	1,2-Dichloroethane-d4	30	30.1	101	91	110
		Toluene-d8	30	29.8	99	91	112
		4-Bromofluorobenzene	30	27.6	92	63	112
VN0414WBS01	VN0414WBS01	1,2-Dichloroethane-d4	30	30.0	100	91	110
		Toluene-d8	30	29.9	100	91	112
		4-Bromofluorobenzene	30	29.4	98	63	112
VN0414WBSD0	VN0414WBSD01	1,2-Dichloroethane-d4	30	29.5	98	91	110
		Toluene-d8	30	29.9	100	91	112
		4-Bromofluorobenzene	30	29.6	99	63	112

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1804

Client: Tully Environmental, Inc

Analytical Method: SW624.1

Datafile : VN086258.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0414WBS01	Benzene	20	20.0	ug/L	100			65	135	
	Toluene	20	20.4	ug/L	102			70	130	
	Ethyl Benzene	20	20.2	ug/L	101			60	140	
	m/p-Xylenes	40	40.9	ug/L	102			87	111	
	o-Xylene	20	20.5	ug/L	103			87	111	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1804

Client: Tully Environmental, Inc

Analytical Method: SW624.1

Datafile : VN086259.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0414WBSD01	Benzene	20	20.0	ug/L	100	0		65	135	20
	Toluene	20	20.1	ug/L	101	1		70	130	20
	Ethyl Benzene	20	20.0	ug/L	100	1		60	140	20
	m/p-Xylenes	40	40.7	ug/L	102	0		87	111	20
	o-Xylene	20	20.7	ug/L	104	1		87	111	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0414WBL01

Lab Name: CHEMTECH

Contract: TULL01

Lab Code: CHEM Case No.: Q1804

SAS No.: Q1804 SDG NO.: Q1804

Lab File ID: VN086260.D

Lab Sample ID: VN0414WBL01

Date Analyzed: 04/14/2025

Time Analyzed: 11:27

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
VN0414WBS01	VN0414WBS01	VN086258.D	04/14/2025
VN0414WBSD01	VN0414WBSD01	VN086259.D	04/14/2025
001-WILLETS-PT-BLVD (APR)	Q1804-01	VN086265.D	04/14/2025
002-35TH-AVE (APR)	Q1804-02	VN086266.D	04/14/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TULL01
Lab Code: CHEM Case No.: Q1804 SAS No.: Q1804 SDG NO.: Q1804
Lab File ID: VN086241.D BFB Injection Date: 04/11/2025
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	19.1
75	30.0 - 60.0% of mass 95	51.3
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	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	67.2
175	5.0 - 9.0% of mass 174	4.8 (7.1) 1
176	95.0 - 101.0% of mass 174	64.9 (96.7) 1
177	5.0 - 9.0% of mass 176	4.2 (6.4) 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	VN086242.D	04/11/2025	11:04
VSTDICC050	VSTDICC050	VN086244.D	04/11/2025	11:52
VSTDICCC020	VSTDICCC020	VN086245.D	04/11/2025	12:16
VSTDICC005	VSTDICC005	VN086246.D	04/11/2025	12:40



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TULL01
Lab Code: CHEM Case No.: Q1804 SAS No.: Q1804 SDG NO.: Q1804
Lab File ID: VN086256.D BFB Injection Date: 04/14/2025
Instrument ID: MSVOA_N BFB Injection Time: 08:59
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.2
75	30.0 - 60.0% of mass 95	48.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 100.0% of mass 95	64.1
175	5.0 - 9.0% of mass 174	4.8 (7.5) 1
176	95.0 - 101.0% of mass 174	62 (96.7) 1
177	5.0 - 9.0% of mass 176	4.1 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VN086257.D	04/14/2025	09:48
VN0414WBS01	VN0414WBS01	VN086258.D	04/14/2025	10:30
VN0414WBSD01	VN0414WBSD01	VN086259.D	04/14/2025	11:03
VN0414WBL01	VN0414WBL01	VN086260.D	04/14/2025	11:27
001-WILLETS-PT-BLVD (APR)	Q1804-01	VN086265.D	04/14/2025	13:38
002-35TH-AVE (APR)	Q1804-02	VN086266.D	04/14/2025	14:02

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TULL01
Lab Code: CHEM Case No.: Q1804 SAS No.: Q1804 SDG NO.: Q1804
Lab File ID: VN086257.D Date Analyzed: 04/14/2025
Instrument ID: MSVOA_N Time Analyzed: 09:48
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	32024	7.81	197357	9.09	173474	11.87
UPPER LIMIT	64048	8.312	394714	9.594	346948	12.365
LOWER LIMIT	16012	7.312	98678.5	8.594	86737	11.365
EPA SAMPLE NO.						
001-WILLETS-PT-BLVD (APR)	32875	7.81	201433	9.10	178259	11.87
002-35TH-AVE (APR)	26217	7.81	164361	9.10	144392	11.87
VN0414WBL01	34059	7.81	208636	9.10	183354	11.87
VN0414WBS01	36879	7.81	225158	9.10	200399	11.87
VN0414WBSD01	36062	7.82	212146	9.10	188770	11.87

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TULL01
 Lab Code: CHEM Case No.: Q1804 SAS No.: Q1804 SDG NO.: Q1804
 Lab File ID: VN086257.D Date Analyzed: 04/14/2025
 Instrument ID: MSVOA_N Time Analyzed: 09:48
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
001-WILLETS-PT-BLVD (APR)	0	0.00				
002-35TH-AVE (APR)	0	0.00				
VN0414WBL01	0	0.00				
VN0414WBS01	0	0.00				
VN0414WBSD01	0	0.00				

IS4 =

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:	Tully Environmental, Inc	Date Collected:	04/10/25
Project:	Transfer Station-SPDES	Date Received:	04/14/25
Client Sample ID:	001-WILLETS-PT-BLVD(APR)	SDG No.:	Q1804
Lab Sample ID:	Q1804-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086265.D	1		04/14/25 13:38	VN041425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
108-88-3	Toluene	31.9		0.46	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.3		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.7		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.8		63 - 112	96%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	32900	7.812			
540-36-3	1,4-Difluorobenzene	201000	9.1			
3114-55-4	Chlorobenzene-d5	178000	11.865			

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\VN041425\
 Data File : VN086265.D
 Acq On : 14 Apr 2025 13:38
 Operator : JC\MD
 Sample : Q1804-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(APR)

Quant Time: Apr 15 03:09:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

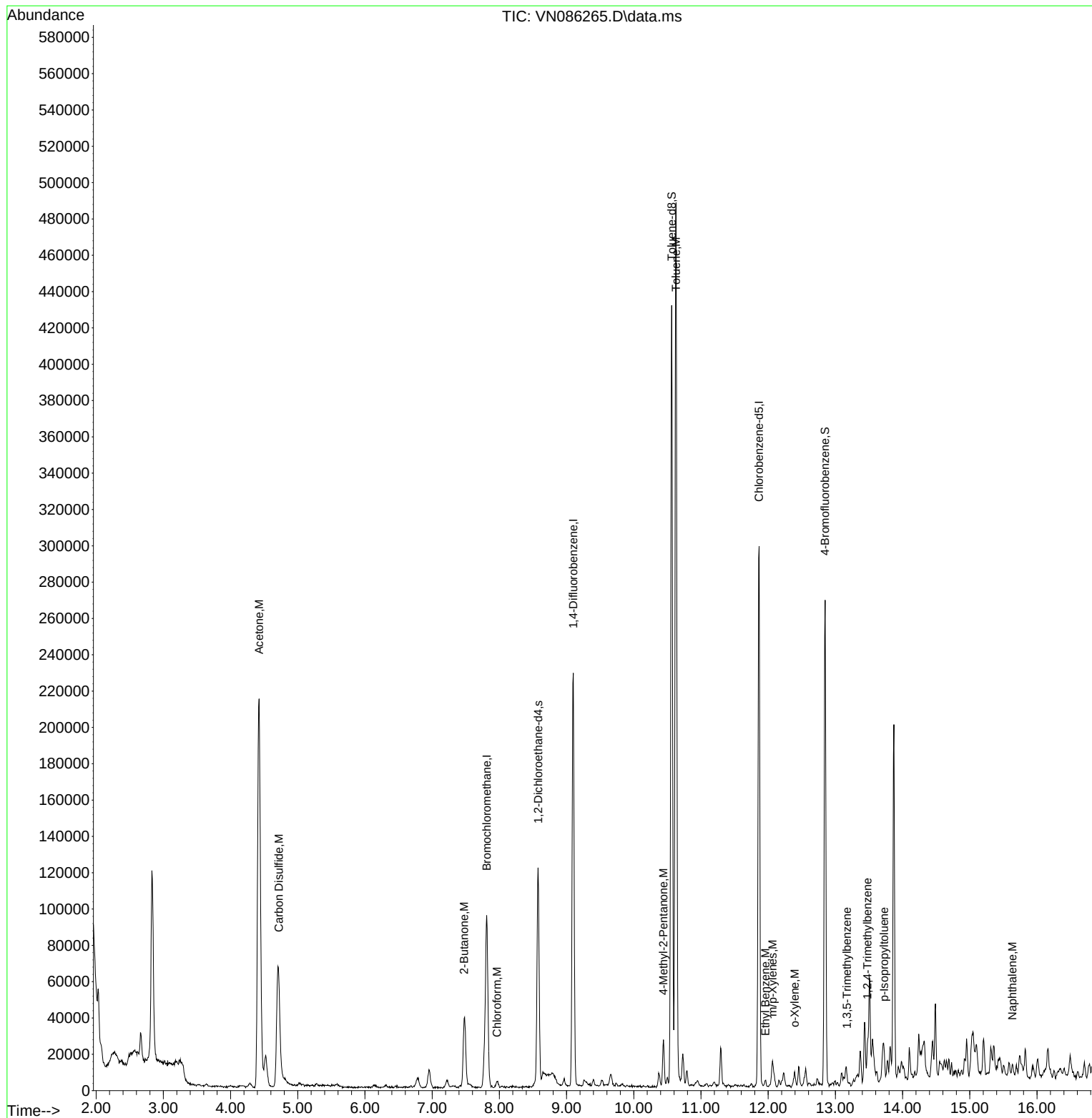
Internal Standards						
1) Bromochloromethane	7.812	128	32875	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	201433	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	178259	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	97136	30.293	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.967%			
60) 4-Bromofluorobenzene	12.847	95	102241	28.808	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.033%			
63) Toluene-d8	10.565	98	299381	29.749	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.167%			
Target Compounds						
					Qvalue	
15) Acetone	4.424	58	132632	350.513	ug/l	90
16) Carbon Disulfide	4.718	76	32242	4.492	ug/l	97
25) Chloroform	7.965	83	3471	0.727	ug/l	92
30) 2-Butanone	7.477	43	64781	32.399	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	17144	4.238	ug/l	99
62) Toluene	10.629	91	381062	31.871	ug/l	100
66) Ethyl Benzene	11.959	91	3026	0.228	ug/l #	87
67) m/p-Xylenes	12.065	106	3420	0.694	ug/l	97
68) o-Xylene	12.394	106	1554	0.320	ug/l	79
76) 1,3,5-Trimethylbenzene	13.170	105	2806	0.286	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	14582	1.464	ug/l	86
82) p-Isopropyltoluene	13.723	119	8162	0.825	ug/l	97
91) Naphthalene	15.635	128	6413	0.688	ug/l #	95

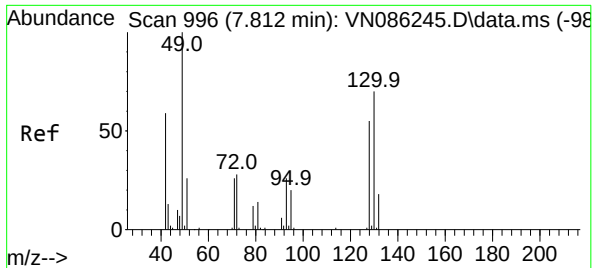
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
Data File : VN086265.D
Acq On : 14 Apr 2025 13:38
Operator : JC\MD
Sample : Q1804-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

Quant Time: Apr 15 03:09:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

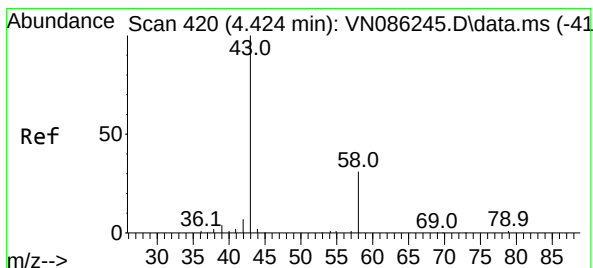
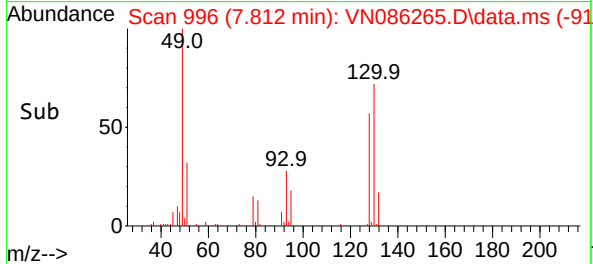
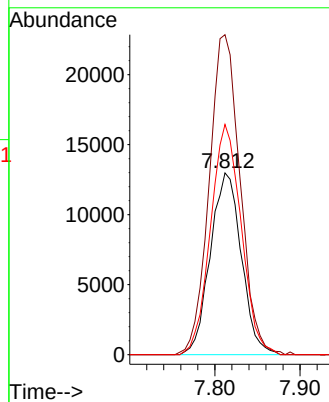
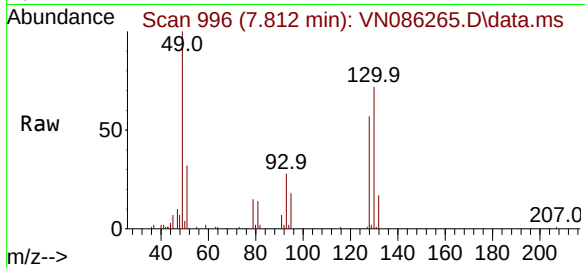




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

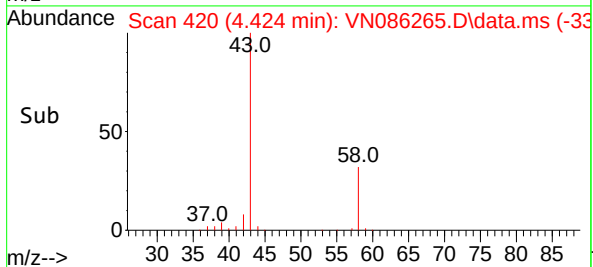
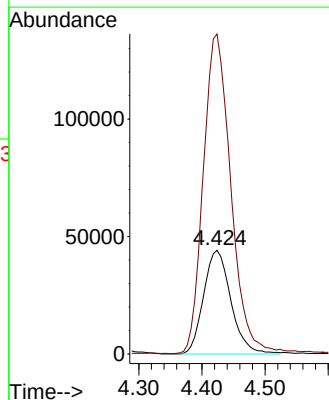
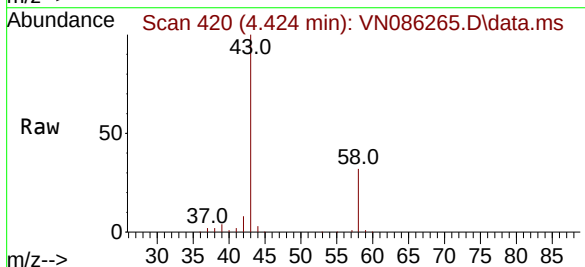
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

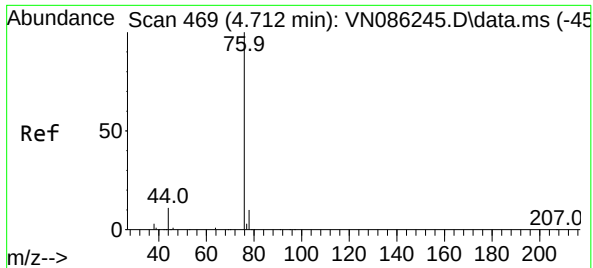
Tgt Ion	Ratio	Lower	Upper
128	100		
49	175.2	0.0	452.5
130	125.5	0.0	315.0



#15
Acetone
Concen: 350.513 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

Tgt Ion	Ratio	Lower	Upper
58	100		
43	307.4	261.8	392.8

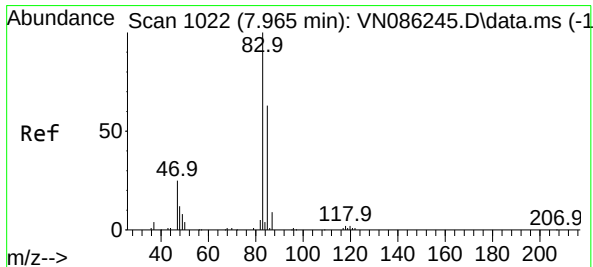
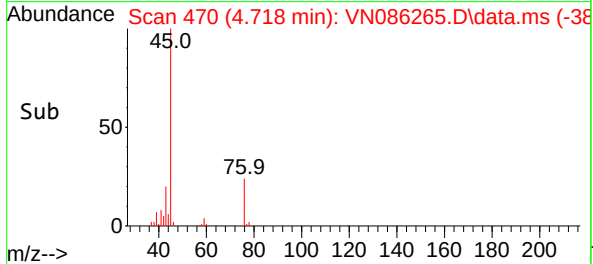
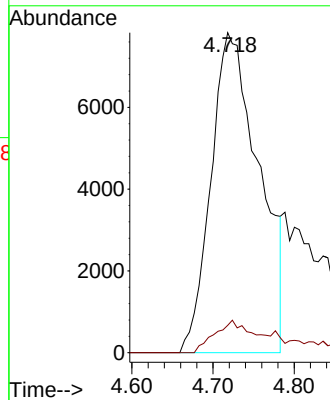
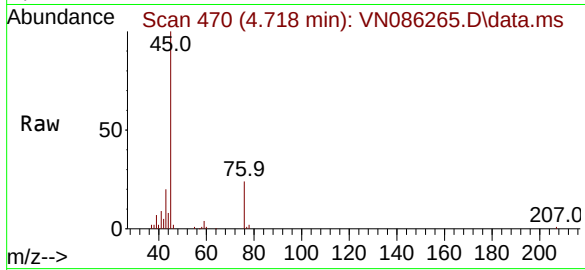




#16
Carbon Disulfide
Concen: 4.492 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

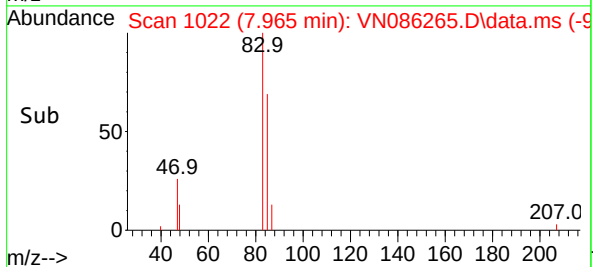
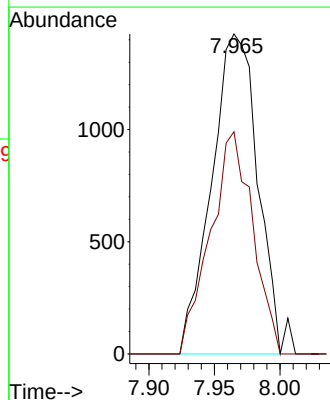
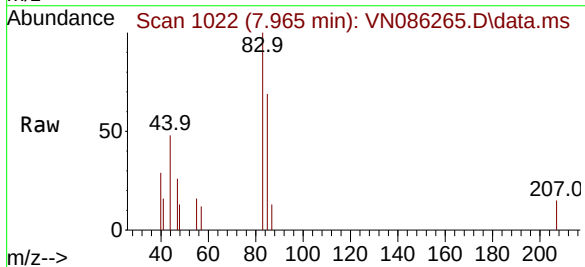
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

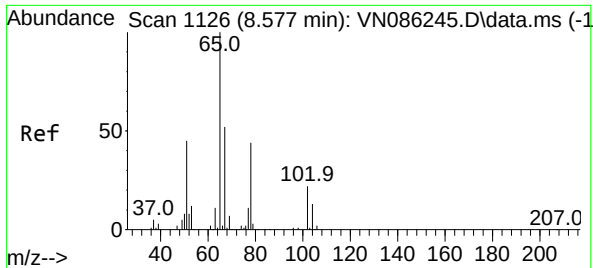
Tgt Ion: 76 Resp: 32242
Ion Ratio Lower Upper
76 100
78 8.6 7.7 11.5



#25
Chloroform
Concen: 0.727 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.000 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

Tgt Ion: 83 Resp: 3471
Ion Ratio Lower Upper
83 100
85 69.4 50.5 75.7

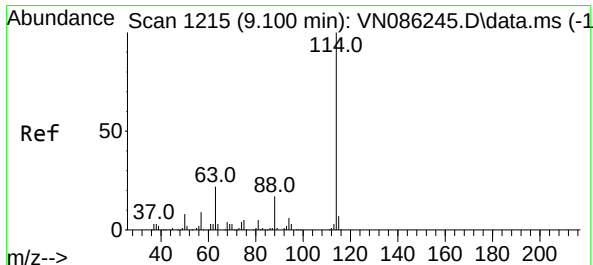
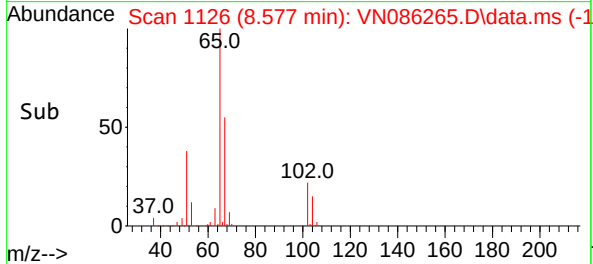
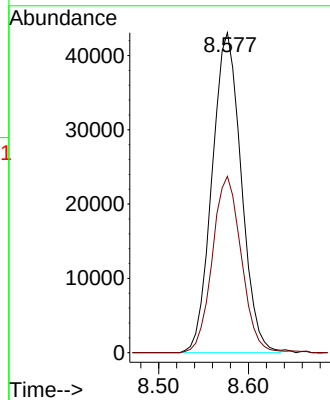
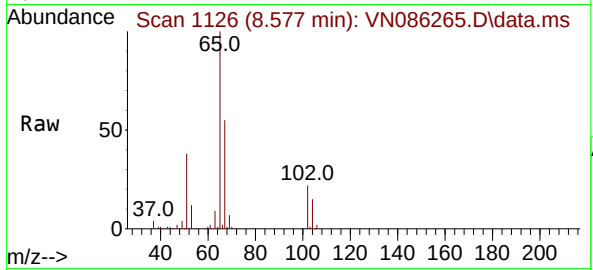




#27
1,2-Dichloroethane-d4
Concen: 30.293 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

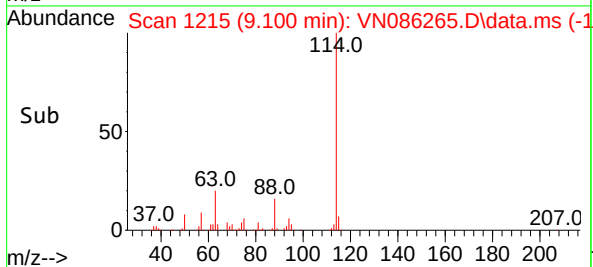
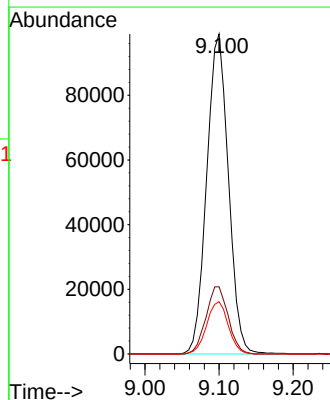
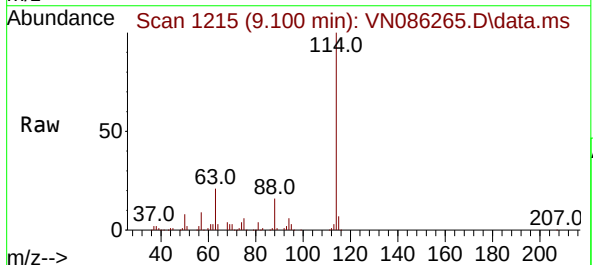
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

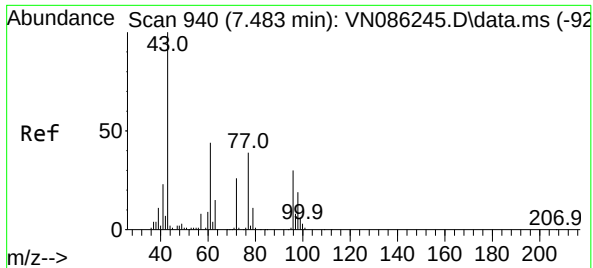
Tgt Ion: 65 Resp: 97136
Ion Ratio Lower Upper
65 100
67 54.7 43.4 65.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

Tgt Ion: 114 Resp: 201433
Ion Ratio Lower Upper
114 100
63 21.5 17.8 26.6
88 16.2 13.4 20.2

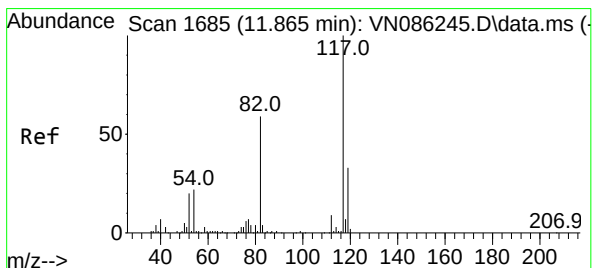
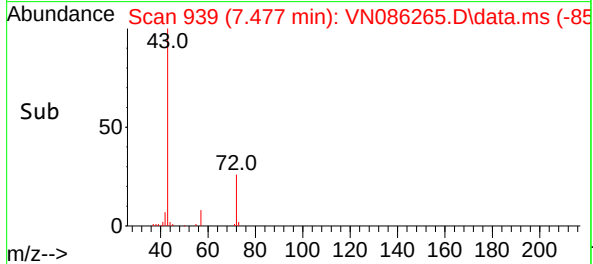
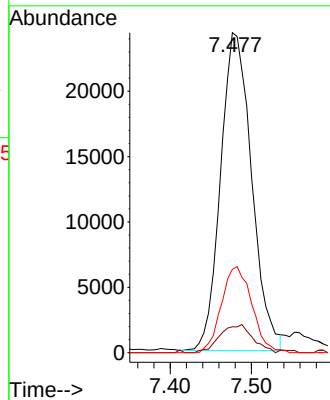
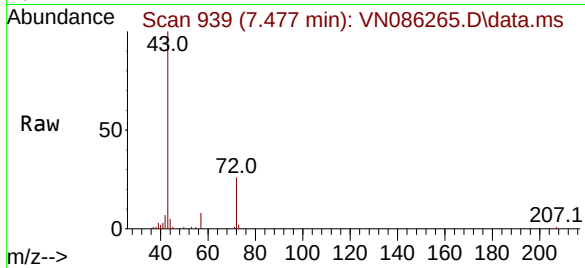




#30
2-Butanone
Concen: 32.399 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

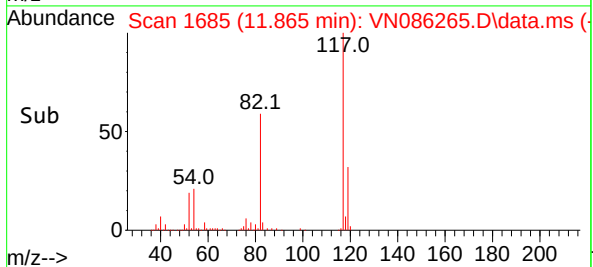
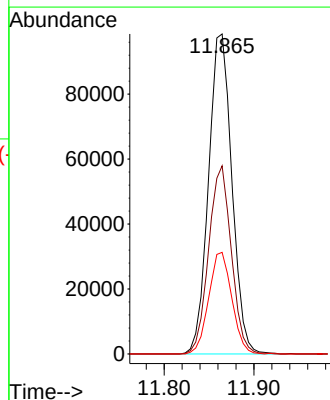
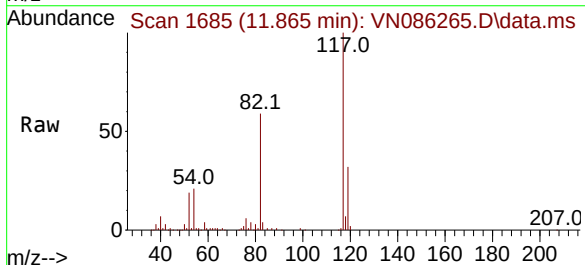
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

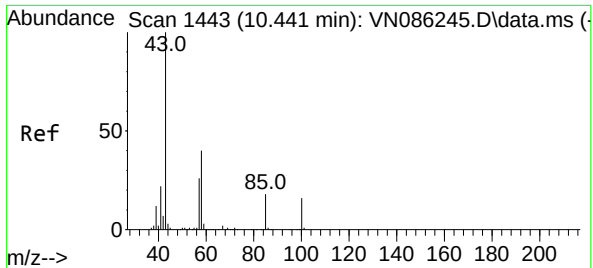
Tgt Ion: 43 Resp: 64781
Ion Ratio Lower Upper
43 100
57 9.3 6.4 9.6
72 26.3 21.5 32.3



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

Tgt Ion: 117 Resp: 178259
Ion Ratio Lower Upper
117 100
82 57.2 47.3 70.9
119 31.4 25.9 38.9

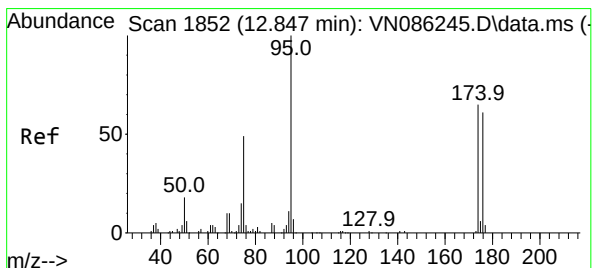
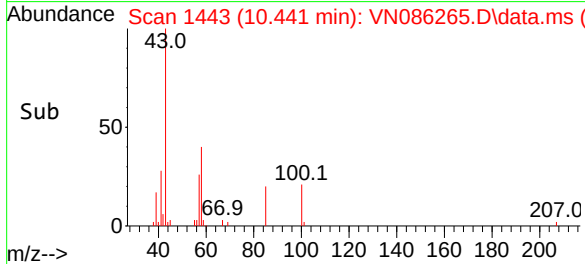
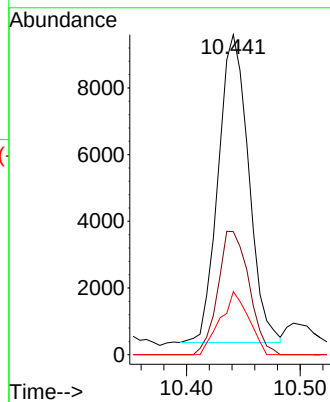
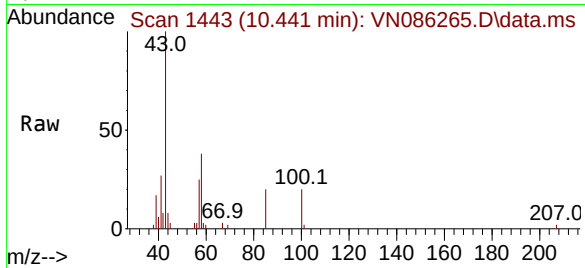




#58
4-Methyl-2-Pentanone
Concen: 4.238 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

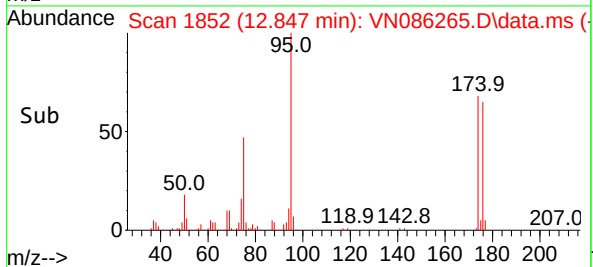
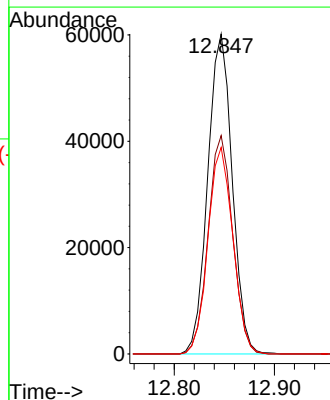
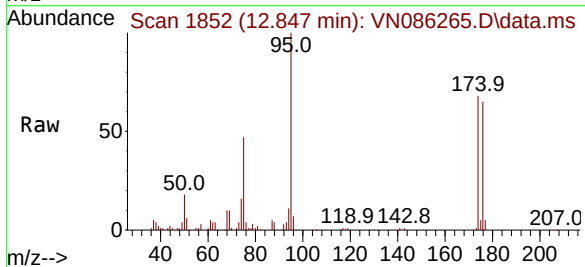
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

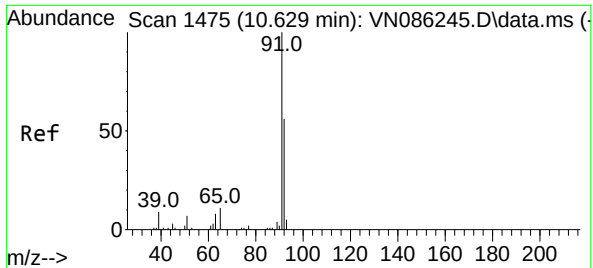
Tgt Ion:	43	Resp:	17144
Ion	Ratio	Lower	Upper
43	100		
58	41.1	32.5	48.7
85	19.1	14.4	21.6



#60
4-Bromofluorobenzene
Concen: 28.808 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

Tgt Ion:	95	Resp:	102241
Ion	Ratio	Lower	Upper
95	100		
174	68.3	52.7	79.1
176	65.7	49.8	74.8





#62

Toluene

Concen: 31.871 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN086265.D

Acq: 14 Apr 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

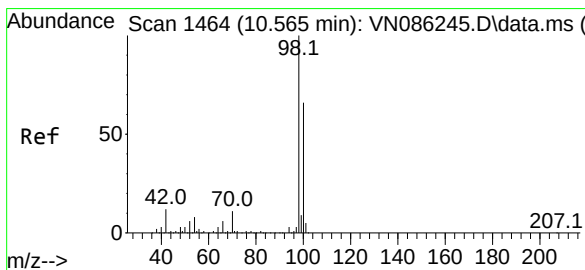
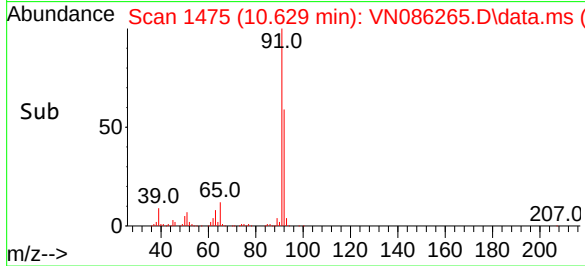
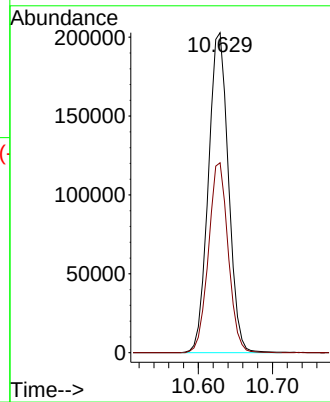
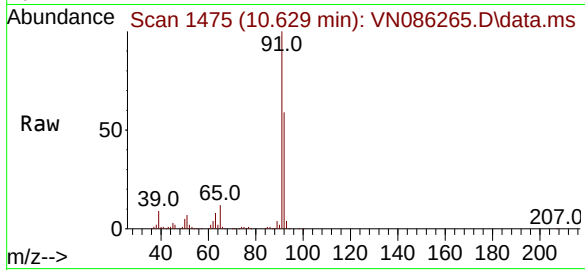
001-WILLETS-PT-BLVD(APR)

Tgt Ion: 91 Resp: 381062

Ion Ratio Lower Upper

91 100

92 58.2 46.8 70.2



#63

Toluene-d8

Concen: 29.749 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086265.D

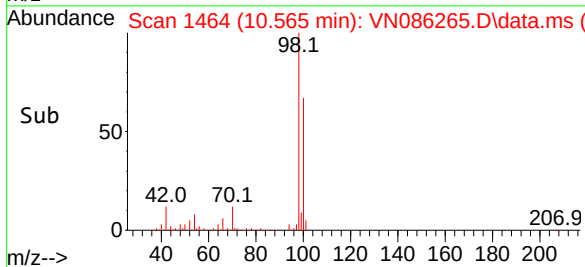
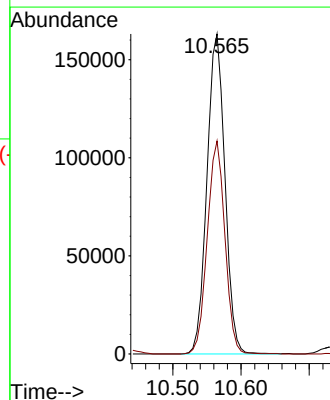
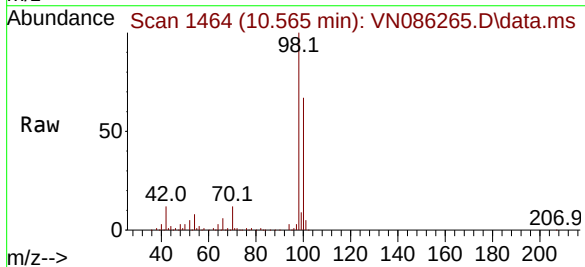
Acq: 14 Apr 2025 13:38

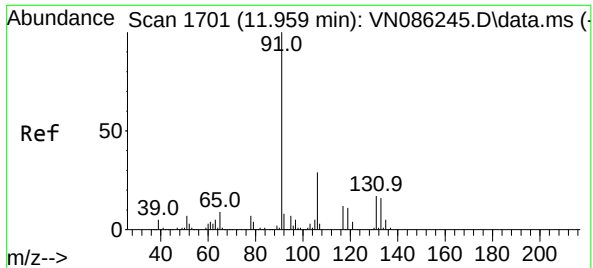
Tgt Ion: 98 Resp: 299381

Ion Ratio Lower Upper

98 100

100 65.4 52.3 78.5

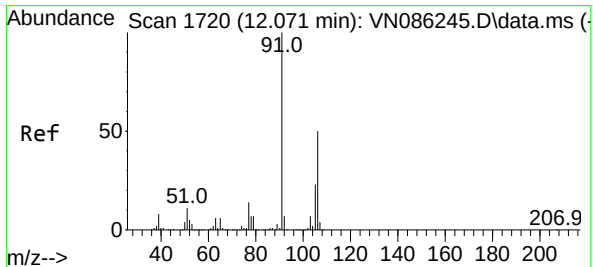
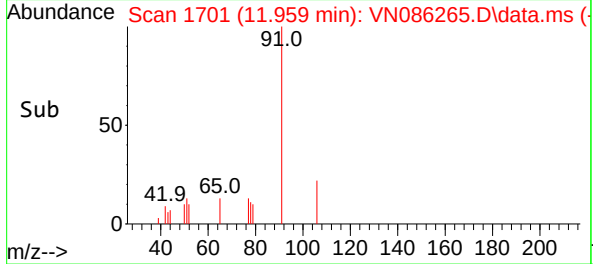
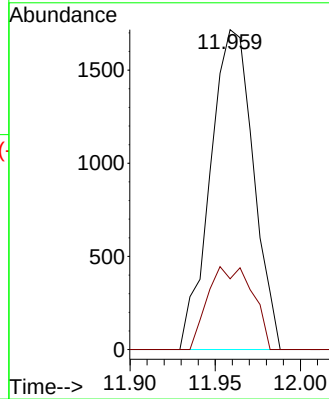
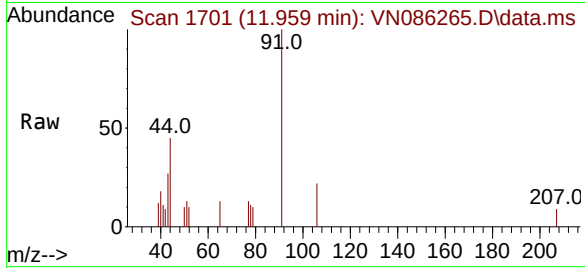




#66
Ethyl Benzene
Concen: 0.228 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

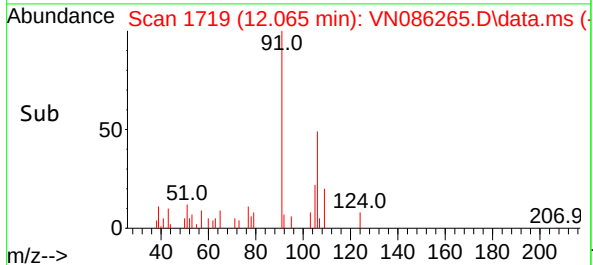
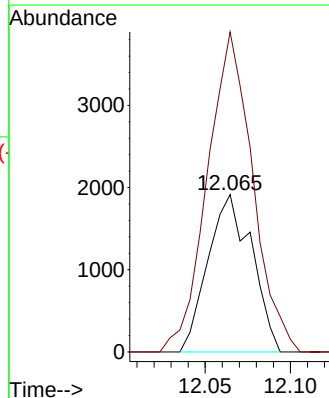
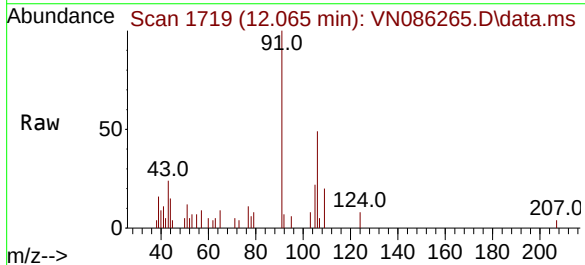
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

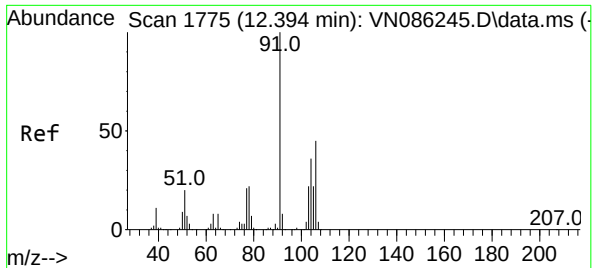
Tgt Ion: 91 Resp: 3026
Ion Ratio Lower Upper
91 100
106 22.1 23.4 35.0#



#67
m/p-Xylenes
Concen: 0.694 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

Tgt Ion: 106 Resp: 3420
Ion Ratio Lower Upper
106 100
91 210.6 164.5 246.7





#68

o-Xylene

Concen: 0.320 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN086265.D

Acq: 14 Apr 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

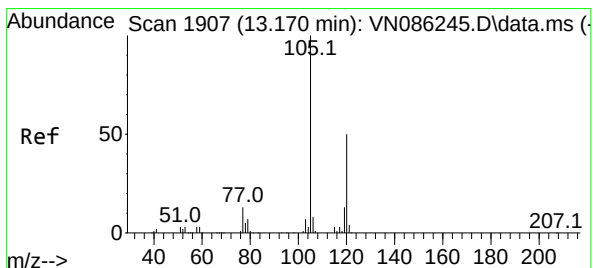
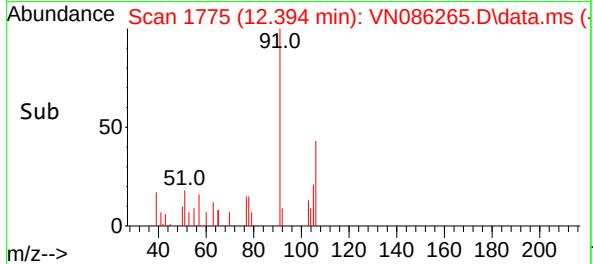
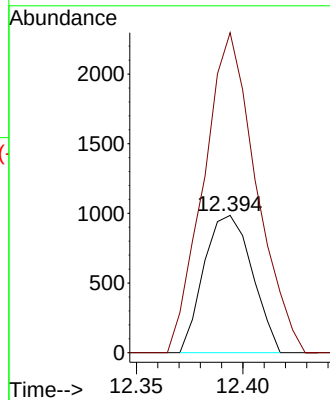
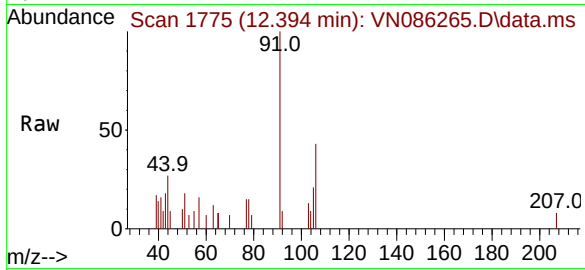
001-WILLETS-PT-BLVD(APR)

Tgt Ion:106 Resp: 1554

Ion Ratio Lower Upper

106 100

91 253.2 109.8 329.4



#76

1,3,5-Trimethylbenzene

Concen: 0.286 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086265.D

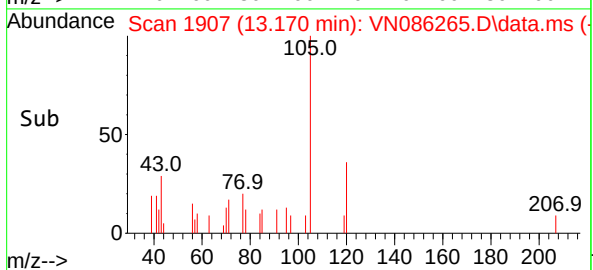
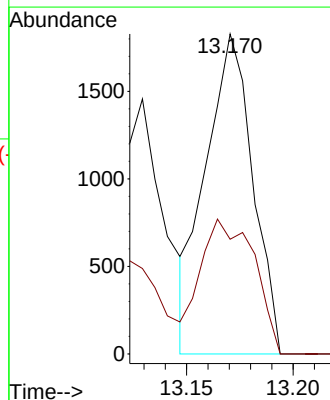
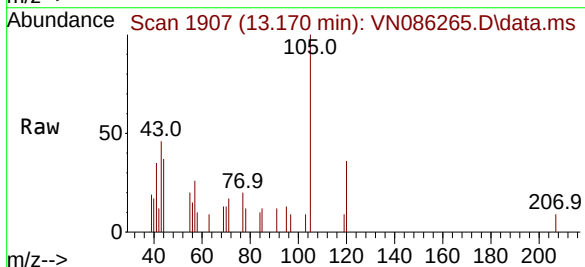
Acq: 14 Apr 2025 13:38

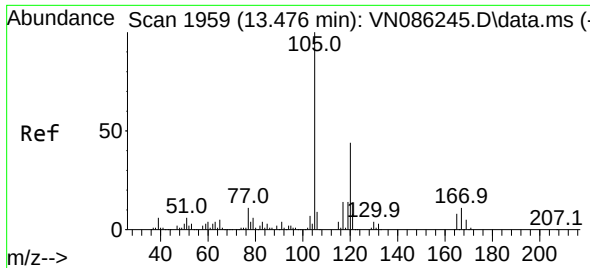
Tgt Ion:105 Resp: 2806

Ion Ratio Lower Upper

105 100

120 48.4 0.0 98.0

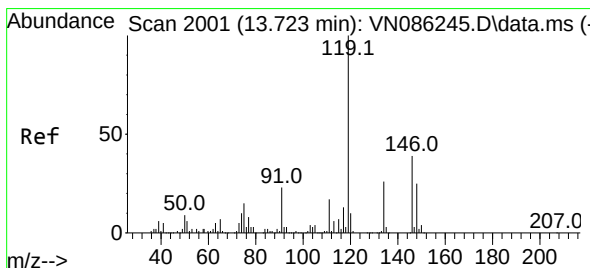
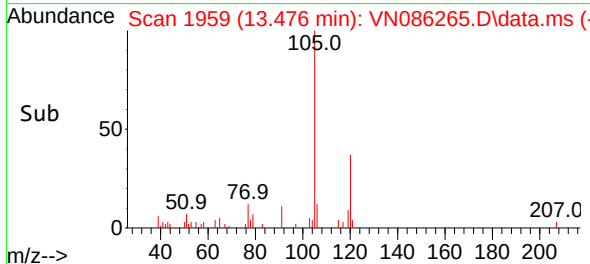
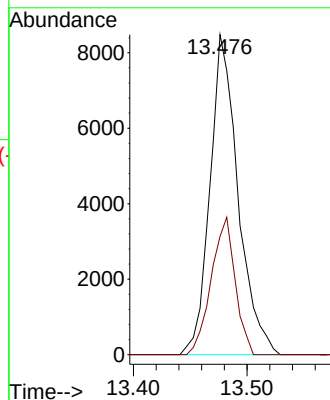
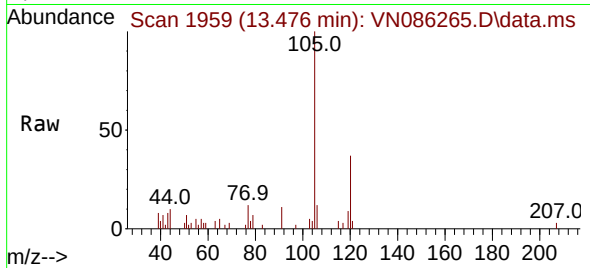




#80
1,2,4-Trimethylbenzene
Concen: 1.464 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

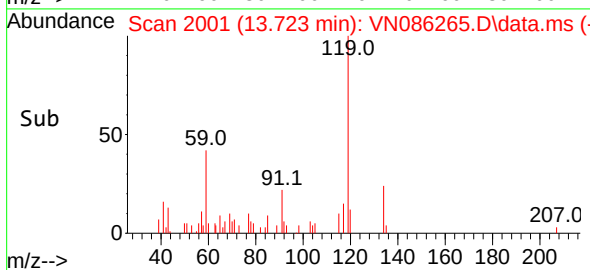
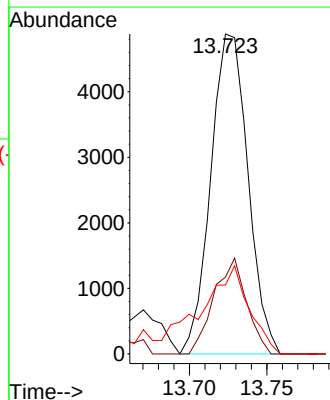
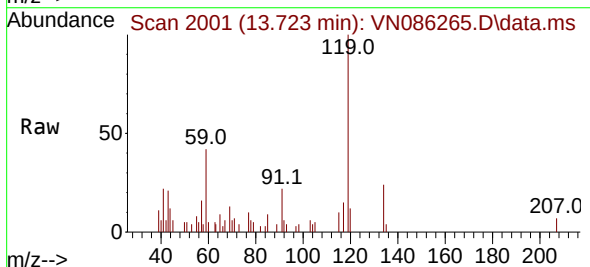
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

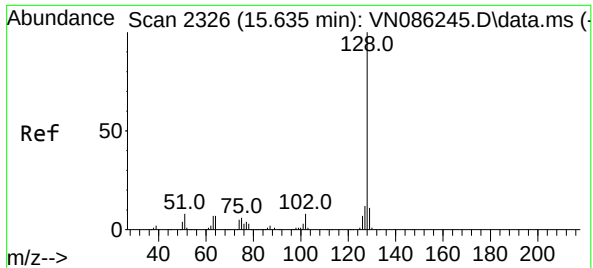
Tgt Ion:105 Resp: 14582
Ion Ratio Lower Upper
105 100
120 36.5 0.0 91.0



#82
p-Isopropyltoluene
Concen: 0.825 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086265.D
Acq: 14 Apr 2025 13:38

Tgt Ion:119 Resp: 8162
Ion Ratio Lower Upper
119 100
134 26.3 0.0 51.6
91 26.7 0.0 48.2





#91

Naphthalene

Concen: 0.688 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086265.D

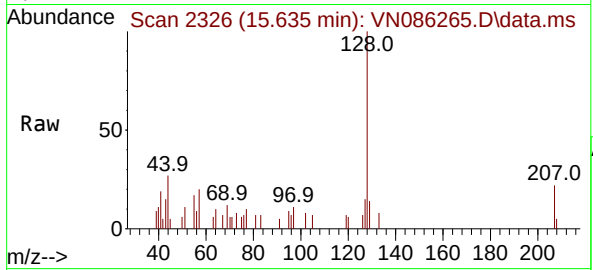
Acq: 14 Apr 2025 13:38

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(APR)



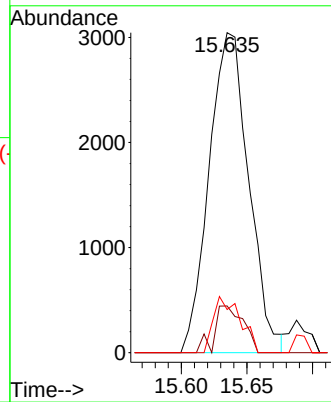
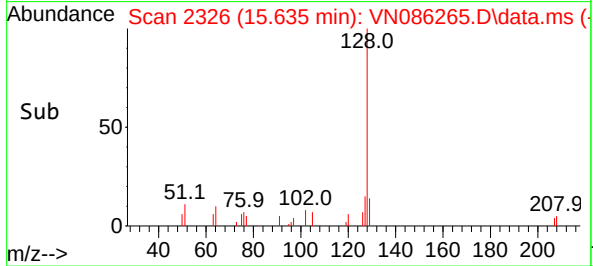
Tgt Ion:128 Resp: 6413

Ion Ratio Lower Upper

128 100

127 9.7 10.2 15.2#

129 11.9 8.8 13.2



Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	04/10/25
Project:	Transfer Station-SPDES	Date Received:	04/14/25
Client Sample ID:	002-35TH-AVE(APR)	SDG No.:	Q1804
Lab Sample ID:	Q1804-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000
		Test:	VOC-BTEX

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086266.D	1		04/14/25 14:02	VN041425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
108-88-3	Toluene	39.8		0.46	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.9		91 - 110	103%	SPK: 30
2037-26-5	Toluene-d8	29.7		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.1		63 - 112	97%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	26200	7.812			
540-36-3	1,4-Difluorobenzene	164000	9.1			
3114-55-4	Chlorobenzene-d5	144000	11.865			

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\VN041425\
 Data File : VN086266.D
 Acq On : 14 Apr 2025 14:02
 Operator : JC\MD
 Sample : Q1804-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(APR)

Quant Time: Apr 15 03:10:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

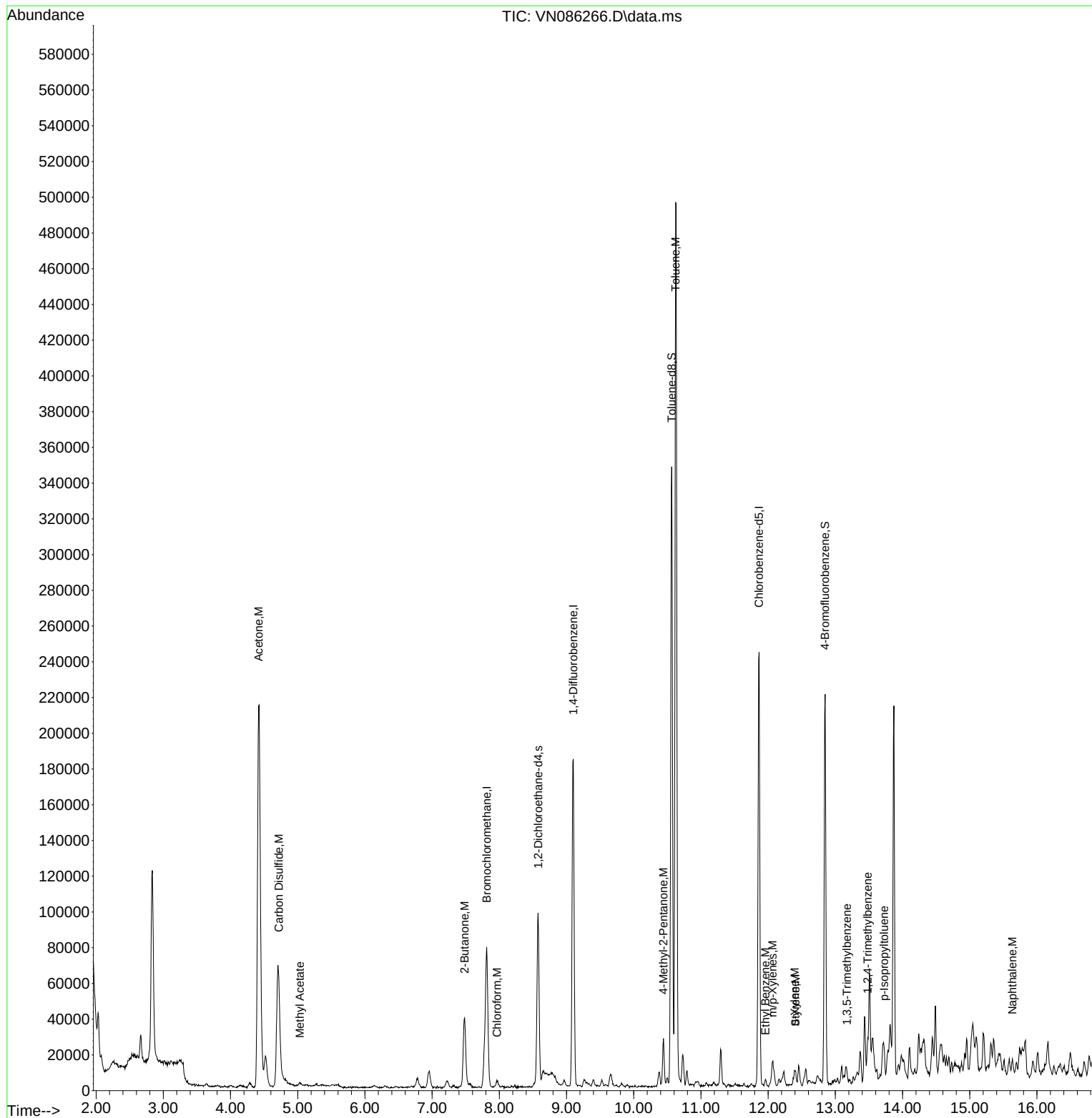
Internal Standards						
1) Bromochloromethane	7.812	128	26217	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	164361	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	144392	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	78950	30.874	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.900%
60) 4-Bromofluorobenzene	12.847	95	83577	29.072	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.900%
63) Toluene-d8	10.565	98	242502	29.748	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.167%
Target Compounds						
					Qvalue	
12) Methyl Acetate	5.030	43	2946	1.045	ug/l	95
15) Acetone	4.418	58	134941	447.180	ug/l	90
16) Carbon Disulfide	4.718	76	34673	6.057	ug/l	98
25) Chloroform	7.965	83	3909	1.027	ug/l	90
30) 2-Butanone	7.483	43	64380	39.460	ug/l #	98
58) 4-Methyl-2-Pentanone	10.441	43	17273	5.271	ug/l	99
62) Toluene	10.624	91	385440	39.798	ug/l	99
66) Ethyl Benzene	11.959	91	3133	0.292	ug/l	92
67) m/p-Xylenes	12.065	106	3414	0.855	ug/l	94
68) o-Xylene	12.394	106	1772	0.451	ug/l	96
69) Styrene	12.406	104	2515	0.380	ug/l	94
76) 1,3,5-Trimethylbenzene	13.171	105	3013	0.379	ug/l	96
80) 1,2,4-Trimethylbenzene	13.482	105	13967	1.731	ug/l	86
82) p-Isopropyltoluene	13.723	119	8619	1.076	ug/l	95
91) Naphthalene	15.635	128	7088	0.938	ug/l	97

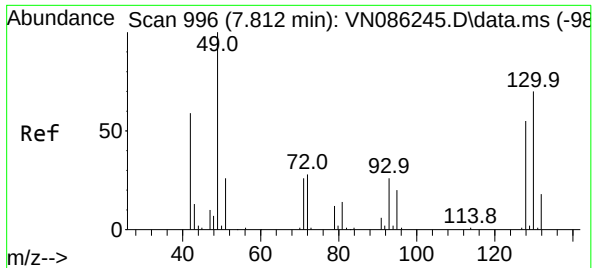
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
Data File : VN086266.D
Acq On : 14 Apr 2025 14:02
Operator : JC\MD
Sample : Q1804-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(APR)

Quant Time: Apr 15 03:10:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

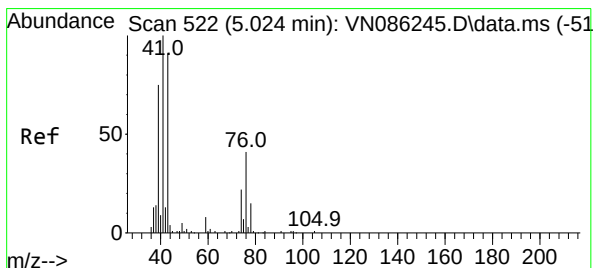
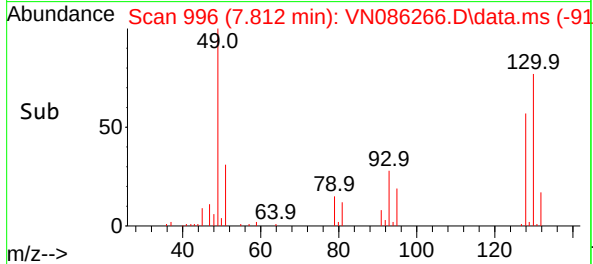
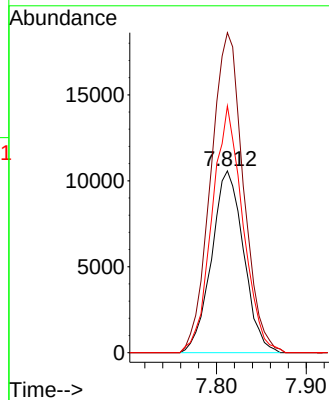
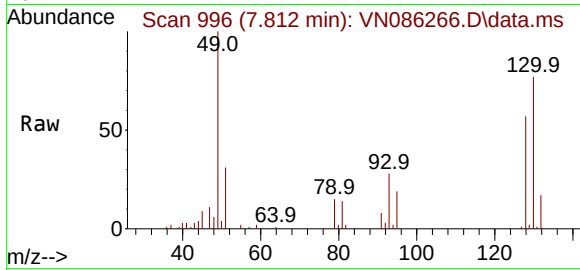




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086266.D
Acq: 14 Apr 2025 14:02

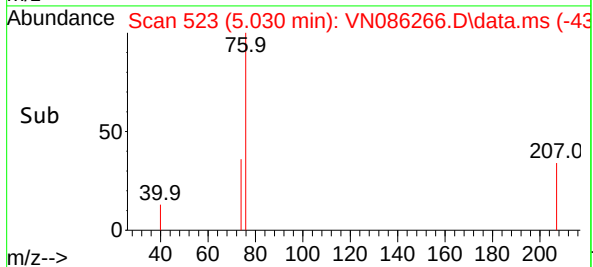
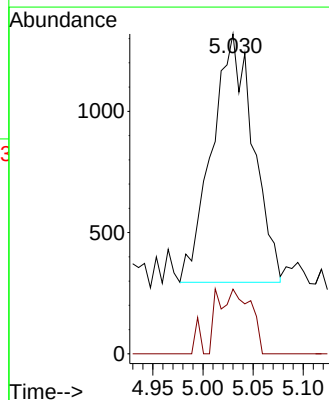
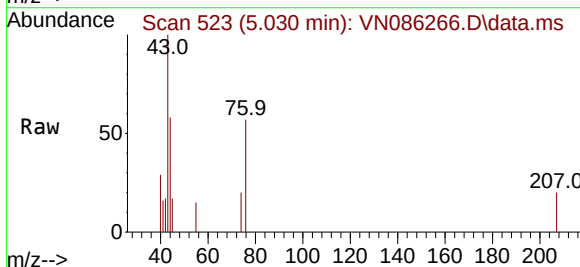
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(APR)

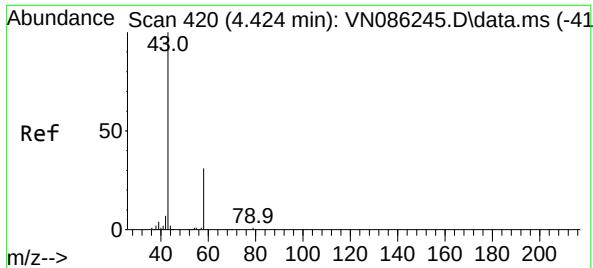
Tgt Ion	128	Resp	26217
Ion	Ratio	Lower	Upper
128	100		
49	179.3	0.0	452.5
130	130.7	0.0	315.0



#12
Methyl Acetate
Concen: 1.045 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN086266.D
Acq: 14 Apr 2025 14:02

Tgt Ion	43	Resp	2946
Ion	Ratio	Lower	Upper
43	100		
74	26.4	19.1	28.7

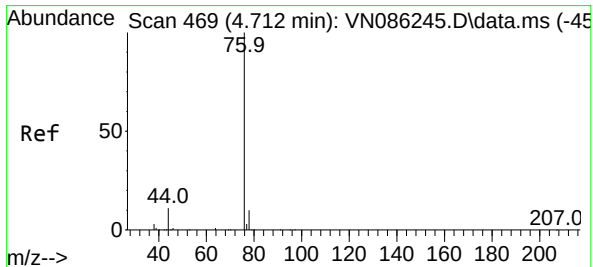
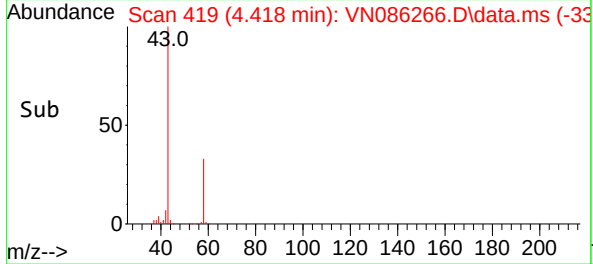
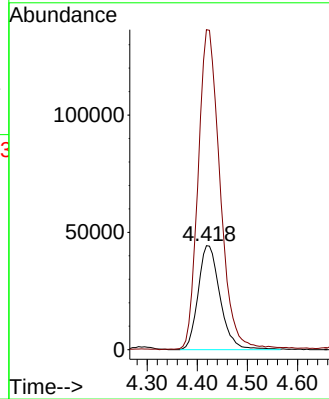
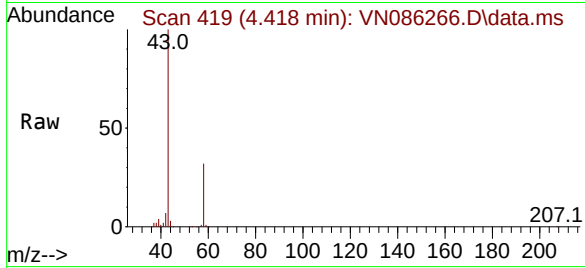




#15
Acetone
Concen: 447.180 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086266.D
Acq: 14 Apr 2025 14:02

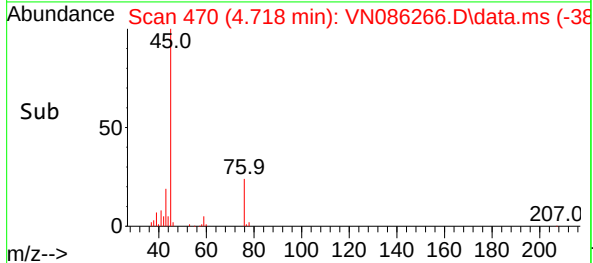
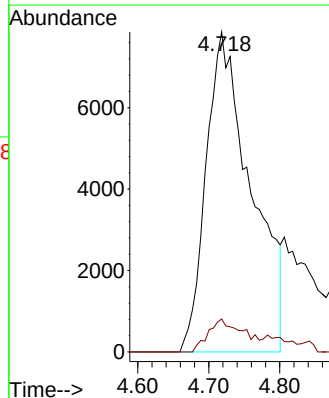
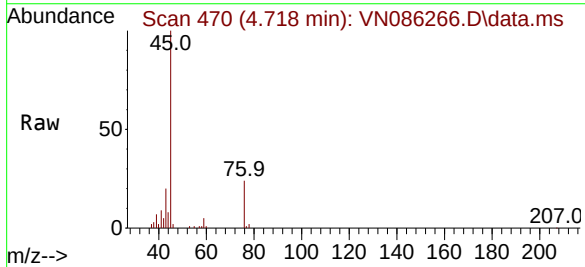
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(APR)

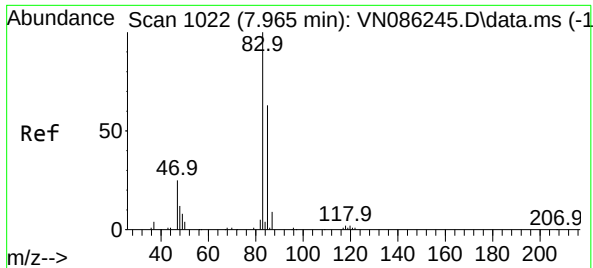
Tgt Ion: 58 Resp: 134941
Ion Ratio Lower Upper
58 100
43 306.7 261.8 392.8



#16
Carbon Disulfide
Concen: 6.057 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN086266.D
Acq: 14 Apr 2025 14:02

Tgt Ion: 76 Resp: 34673
Ion Ratio Lower Upper
76 100
78 10.3 7.7 11.5

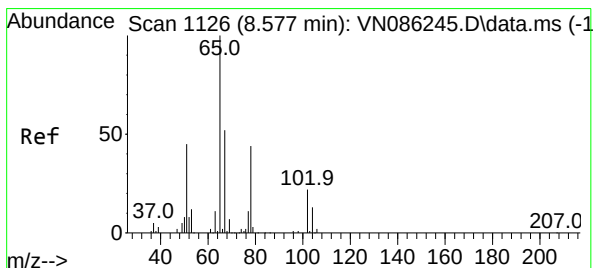
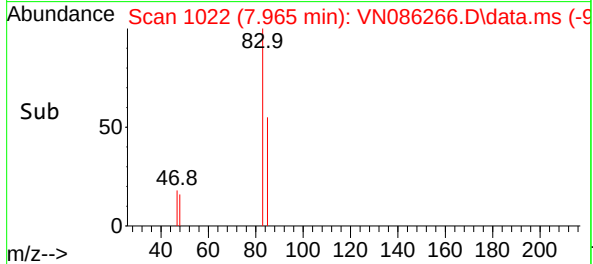
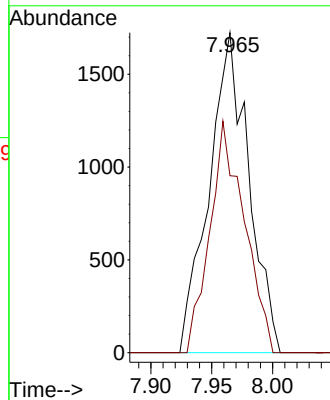
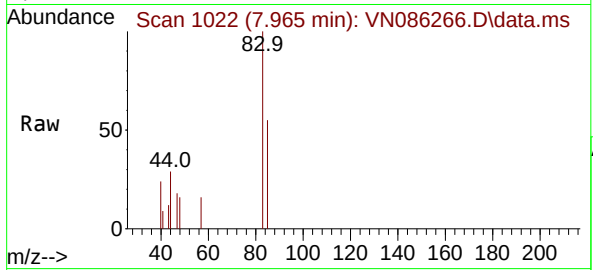




#25
Chloroform
Concen: 1.027 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN086266.D
Acq: 14 Apr 2025 14:02

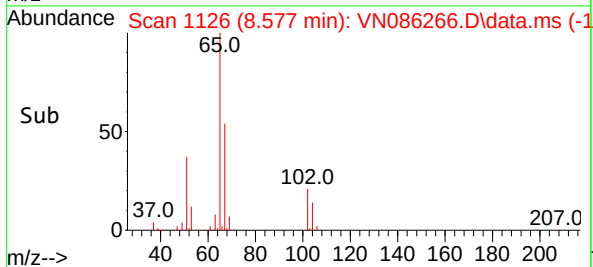
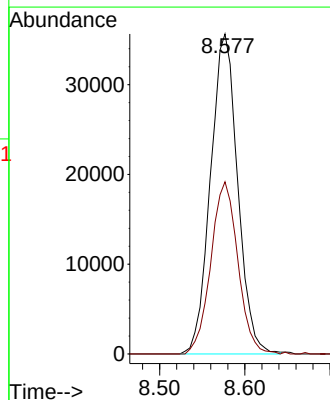
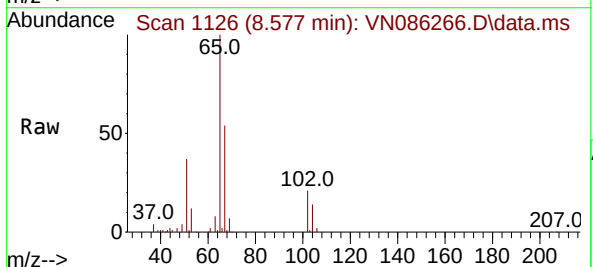
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(APR)

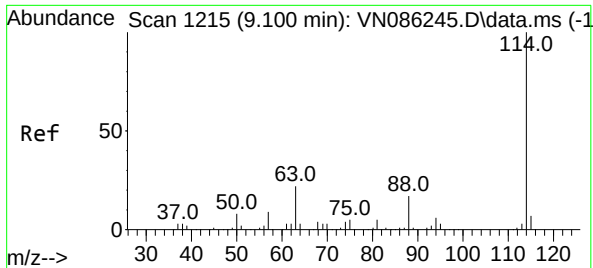
Tgt Ion: 83 Resp: 3909
Ion Ratio Lower Upper
83 100
85 55.3 50.5 75.7



#27
1,2-Dichloroethane-d4
Concen: 30.874 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086266.D
Acq: 14 Apr 2025 14:02

Tgt Ion: 65 Resp: 78950
Ion Ratio Lower Upper
65 100
67 53.5 43.4 65.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086266.D

Acq: 14 Apr 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(APR)

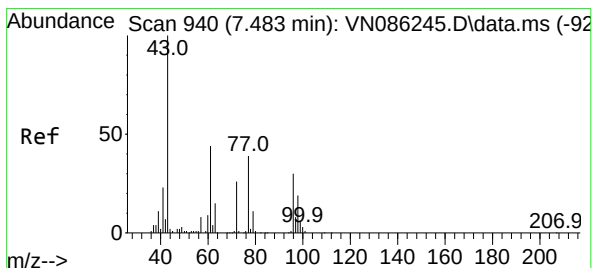
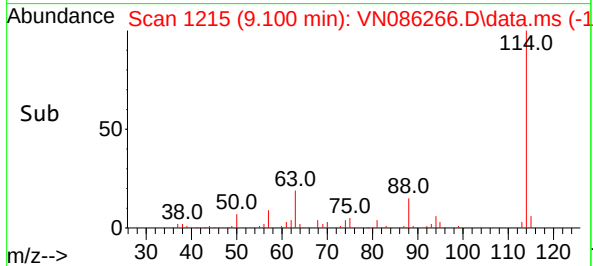
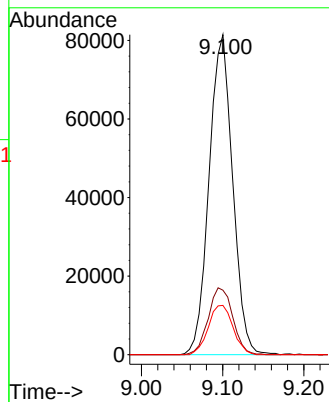
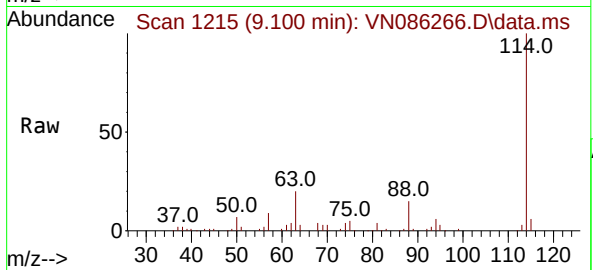
Tgt Ion:114 Resp: 164361

Ion Ratio Lower Upper

114 100

63 21.8 17.8 26.6

88 16.2 13.4 20.2



#30

2-Butanone

Concen: 39.460 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

Lab File: VN086266.D

Acq: 14 Apr 2025 14:02

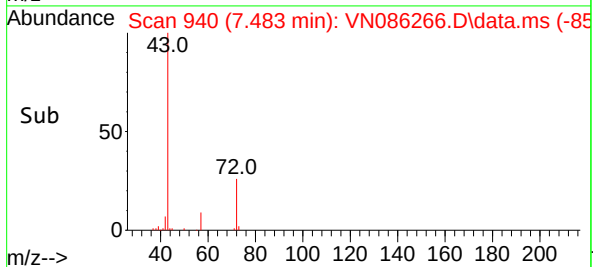
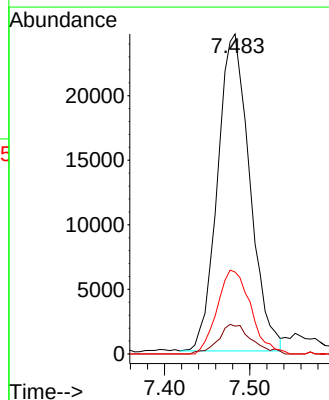
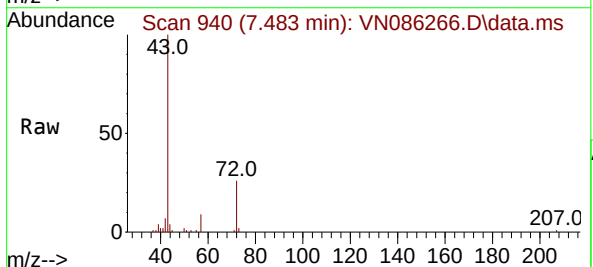
Tgt Ion: 43 Resp: 64380

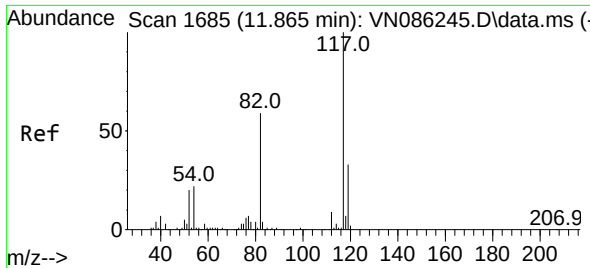
Ion Ratio Lower Upper

43 100

57 9.6 6.4 9.6#

72 27.4 21.5 32.3

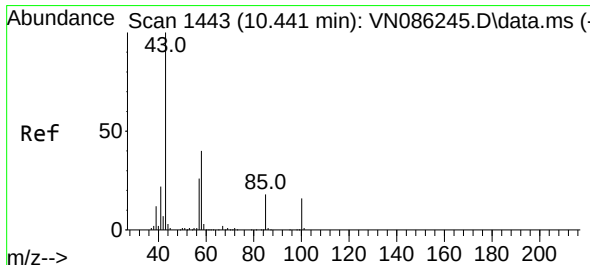
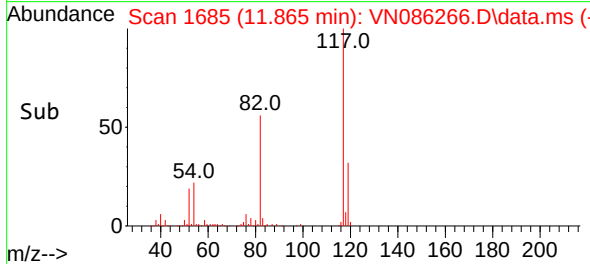
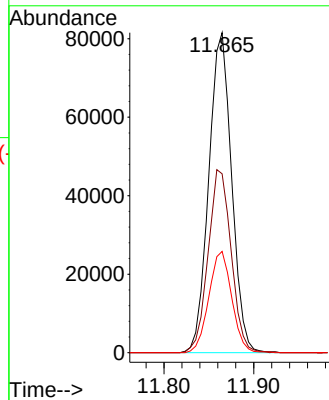
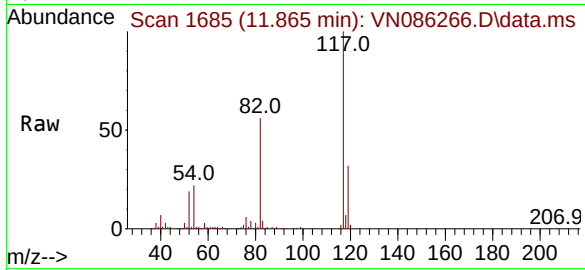




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086266.D
Acq: 14 Apr 2025 14:02

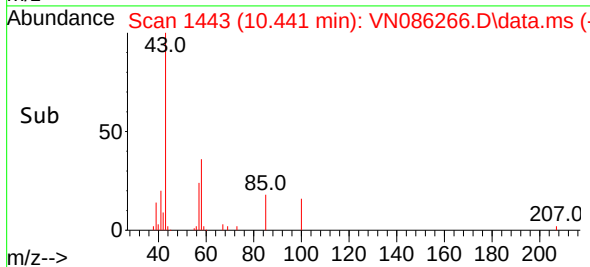
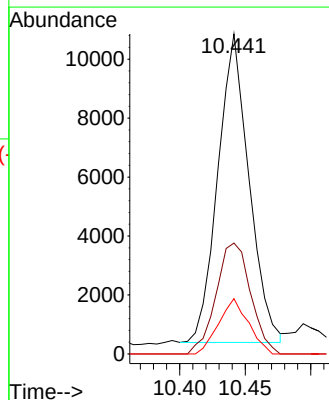
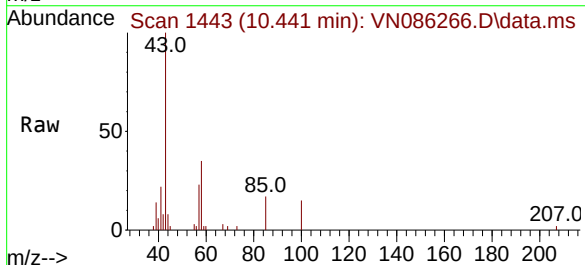
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(APR)

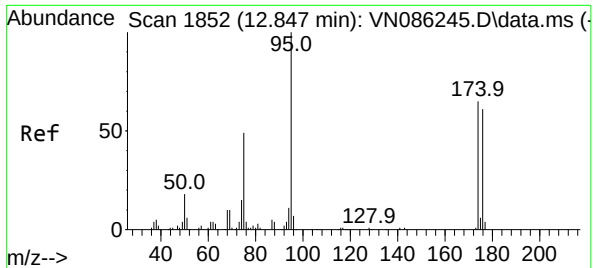
Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.7	47.3	70.9
119	31.7	25.9	38.9



#58
4-Methyl-2-Pentanone
Concen: 5.271 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086266.D
Acq: 14 Apr 2025 14:02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.8	32.5	48.7
85	17.1	14.4	21.6

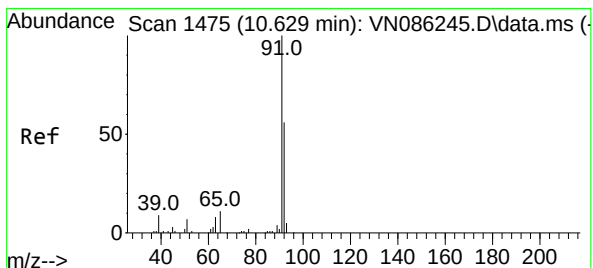
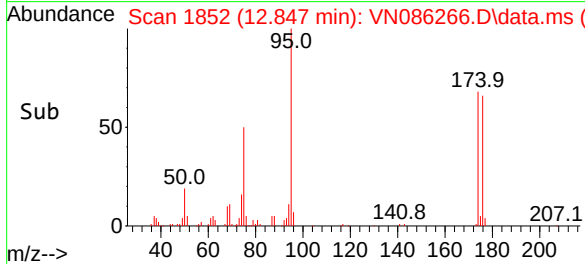
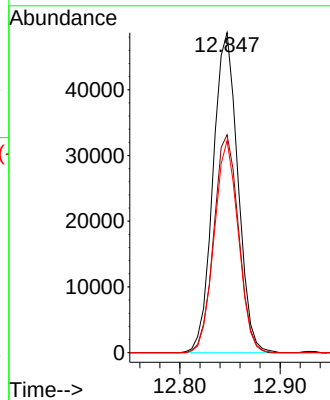
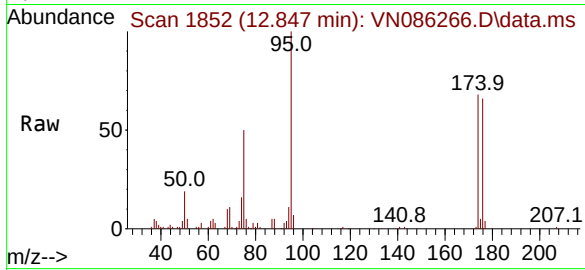




#60
4-Bromofluorobenzene
Concen: 29.072 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086266.D
Acq: 14 Apr 2025 14:02

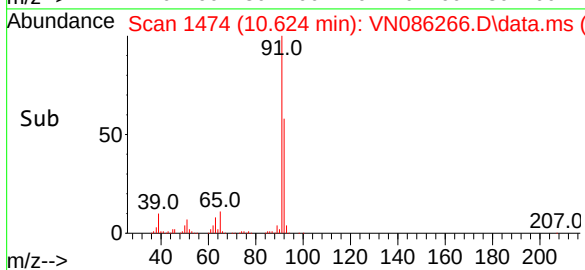
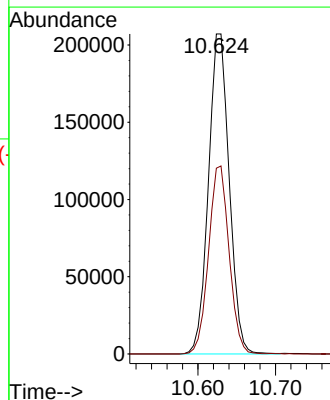
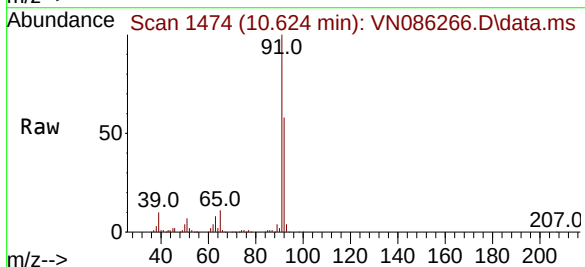
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(APR)

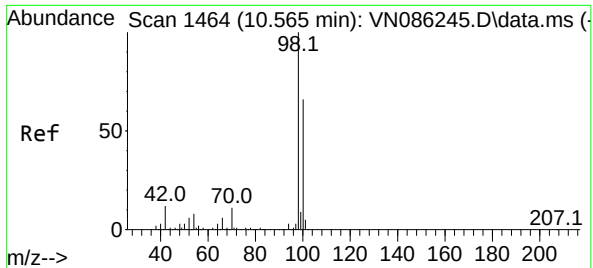
Tgt Ion: 95 Resp: 83577
Ion Ratio Lower Upper
95 100
174 68.1 52.7 79.1
176 64.5 49.8 74.8



#62
Toluene
Concen: 39.798 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086266.D
Acq: 14 Apr 2025 14:02

Tgt Ion: 91 Resp: 385440
Ion Ratio Lower Upper
91 100
92 58.0 46.8 70.2





#63

Toluene-d8

Concen: 29.748 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086266.D

Acq: 14 Apr 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

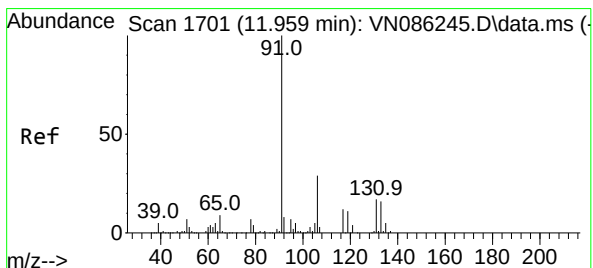
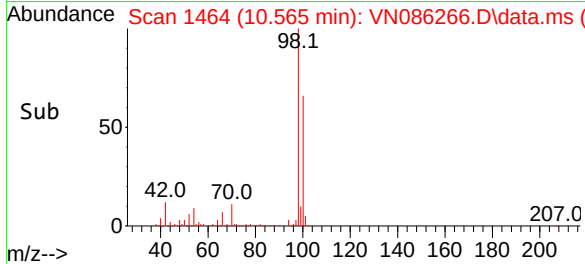
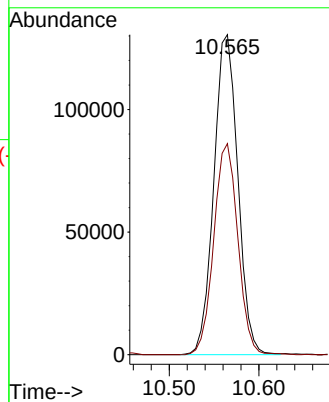
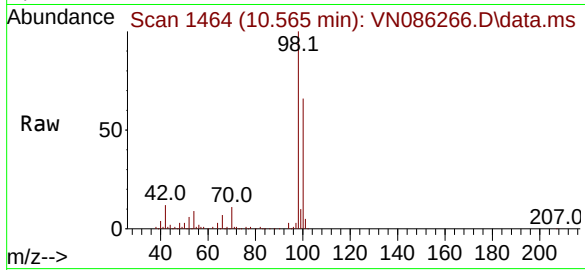
002-35TH-AVE(APR)

Tgt Ion: 98 Resp: 242502

Ion Ratio Lower Upper

98 100

100 66.2 52.3 78.5



#66

Ethyl Benzene

Concen: 0.292 ug/l

RT: 11.959 min Scan# 1701

Delta R.T. 0.000 min

Lab File: VN086266.D

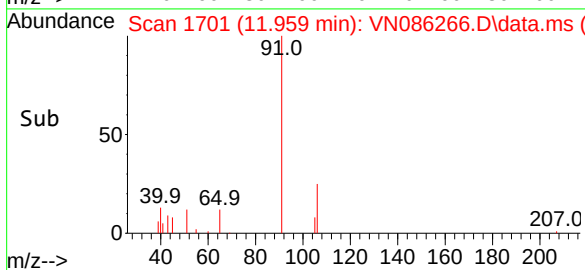
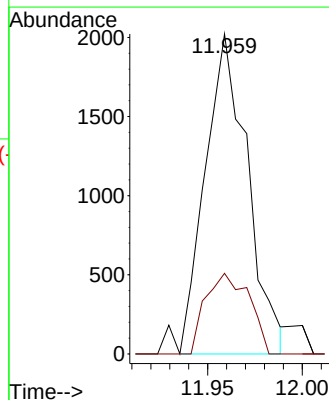
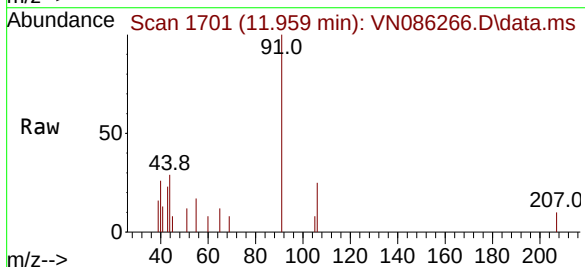
Acq: 14 Apr 2025 14:02

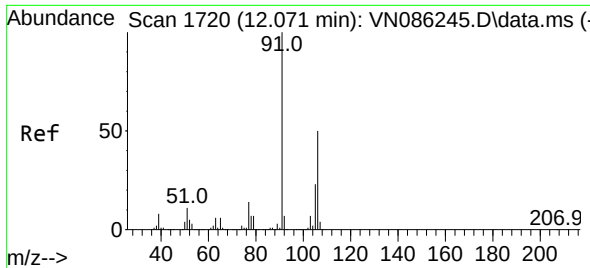
Tgt Ion: 91 Resp: 3133

Ion Ratio Lower Upper

91 100

106 25.2 23.4 35.0





#67

m/p-Xylenes

Concen: 0.855 ug/l

RT: 12.065 min Scan# 1719

Delta R.T. -0.006 min

Lab File: VN086266.D

Acq: 14 Apr 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

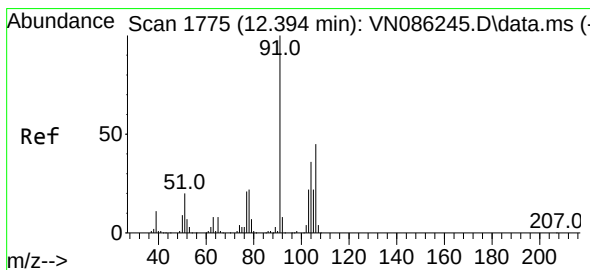
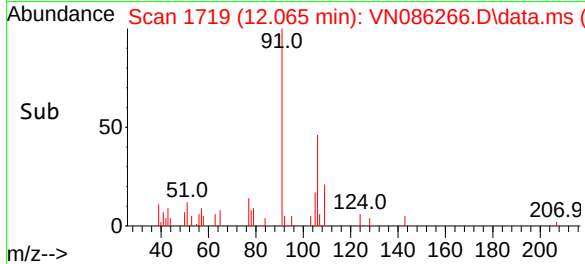
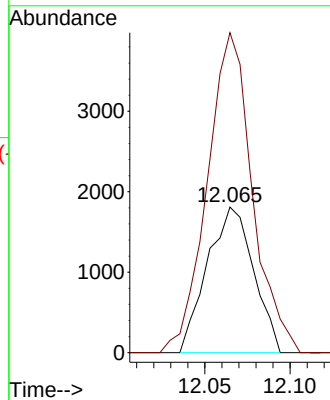
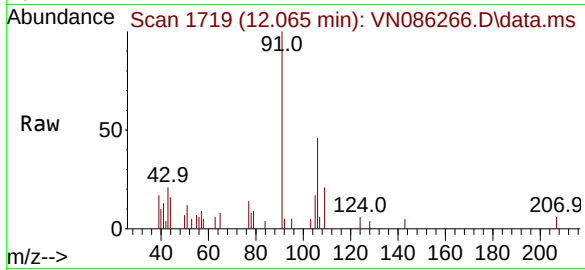
002-35TH-AVE(APR)

Tgt Ion:106 Resp: 3414

Ion Ratio Lower Upper

106 100

91 214.6 164.5 246.7



#68

o-Xylene

Concen: 0.451 ug/l

RT: 12.394 min Scan# 1775

Delta R.T. 0.000 min

Lab File: VN086266.D

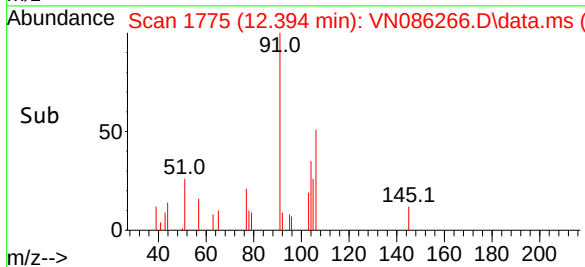
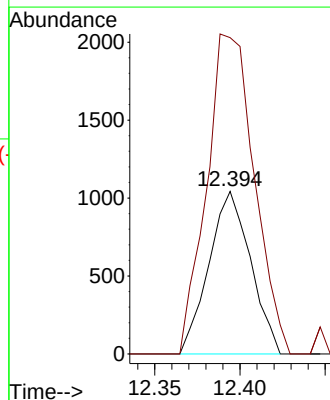
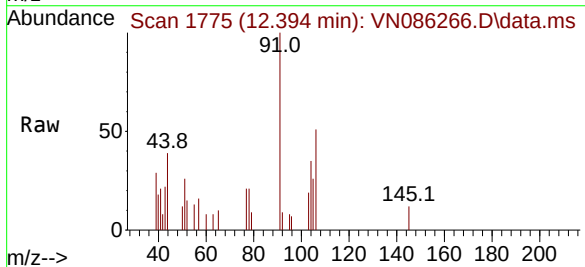
Acq: 14 Apr 2025 14:02

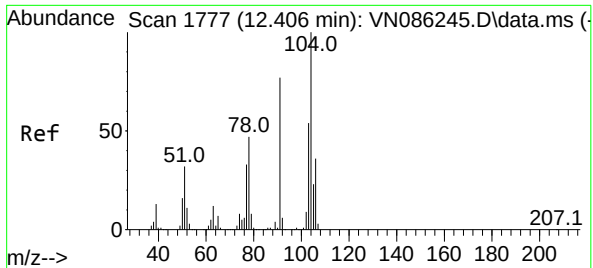
Tgt Ion:106 Resp: 1772

Ion Ratio Lower Upper

106 100

91 225.4 109.8 329.4





#69

Styrene

Concen: 0.380 ug/l

RT: 12.406 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN086266.D

Acq: 14 Apr 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(APR)

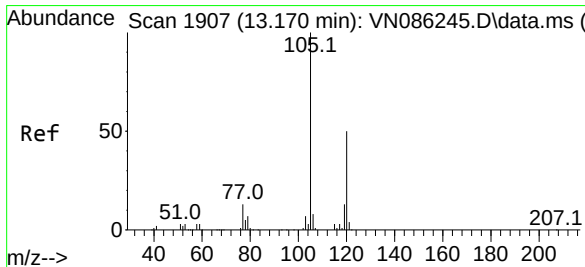
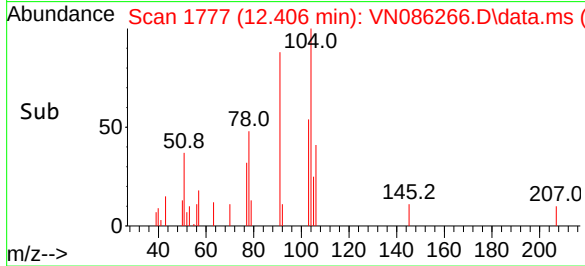
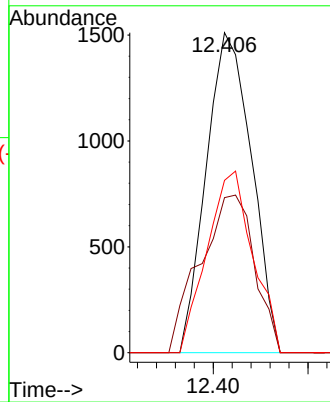
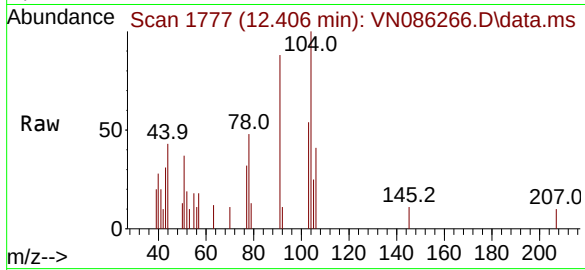
Tgt Ion:104 Resp: 2515

Ion Ratio Lower Upper

104 100

78 59.1 41.4 62.0

103 57.2 44.2 66.4



#76

1,3,5-Trimethylbenzene

Concen: 0.379 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VN086266.D

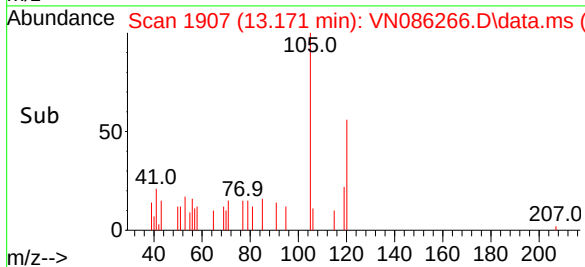
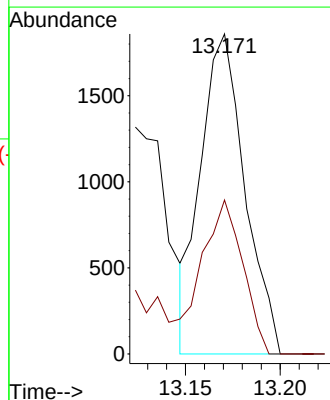
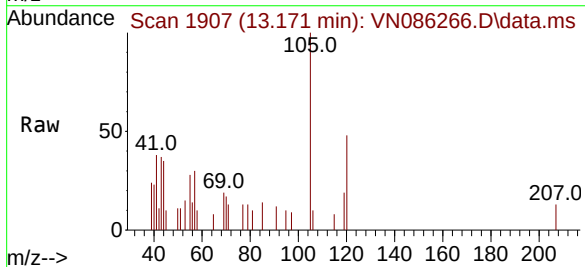
Acq: 14 Apr 2025 14:02

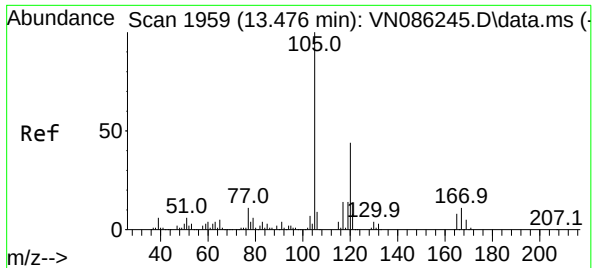
Tgt Ion:105 Resp: 3013

Ion Ratio Lower Upper

105 100

120 46.3 0.0 98.0

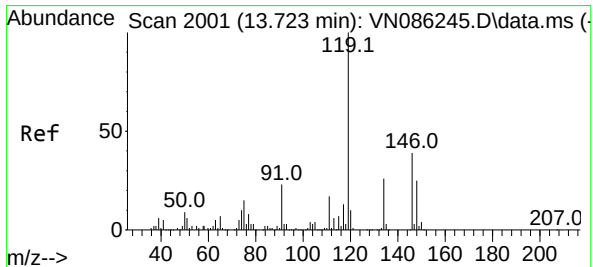
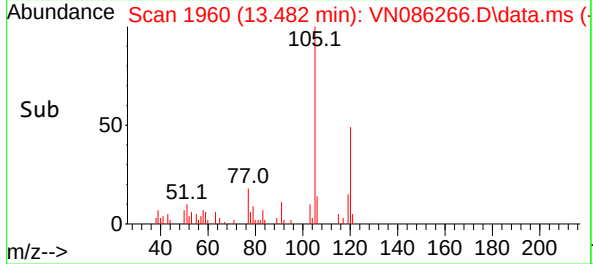
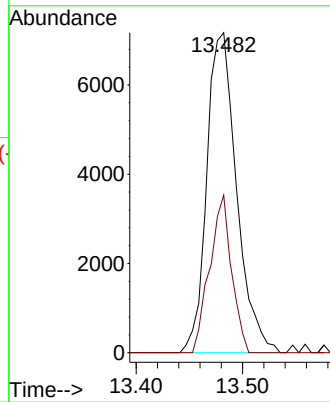
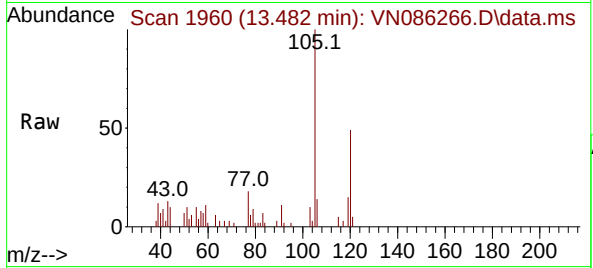




#80
1,2,4-Trimethylbenzene
Concen: 1.731 ug/l
RT: 13.482 min Scan# 1959
Delta R.T. 0.006 min
Lab File: VN086266.D
Acq: 14 Apr 2025 14:02

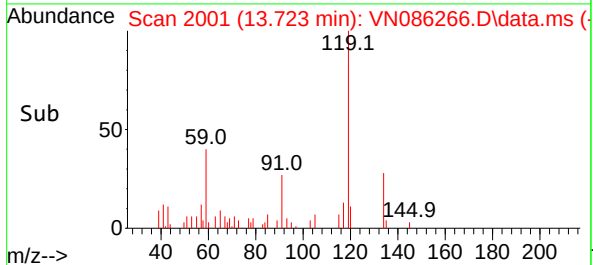
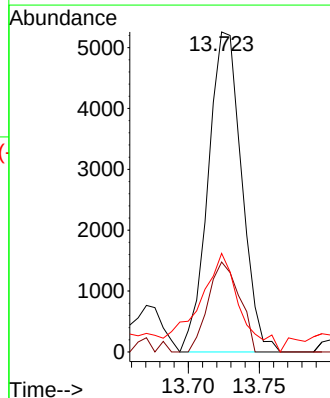
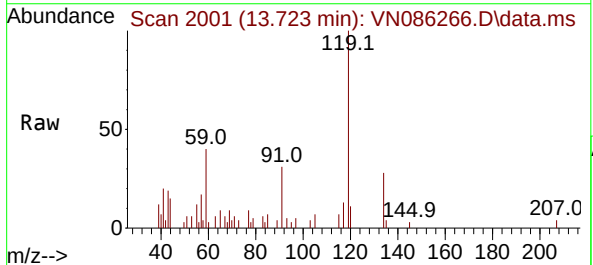
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(APR)

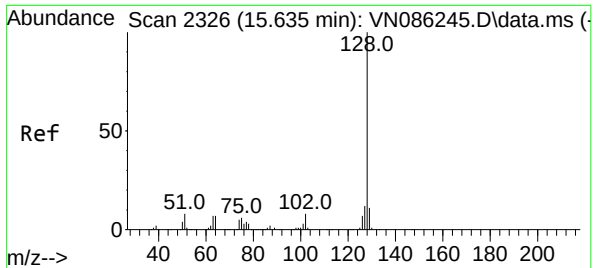
Tgt Ion:105 Resp: 13967
Ion Ratio Lower Upper
105 100
120 36.0 0.0 91.0



#82
p-Isopropyltoluene
Concen: 1.076 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN086266.D
Acq: 14 Apr 2025 14:02

Tgt Ion:119 Resp: 8619
Ion Ratio Lower Upper
119 100
134 26.3 0.0 51.6
91 28.3 0.0 48.2





#91

Naphthalene

Concen: 0.938 ug/l

RT: 15.635 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN086266.D

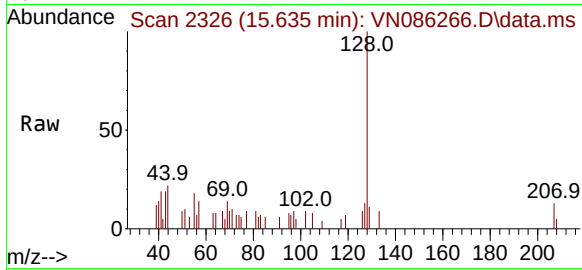
Acq: 14 Apr 2025 14:02

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(APR)



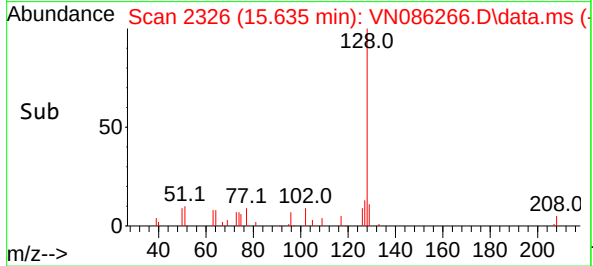
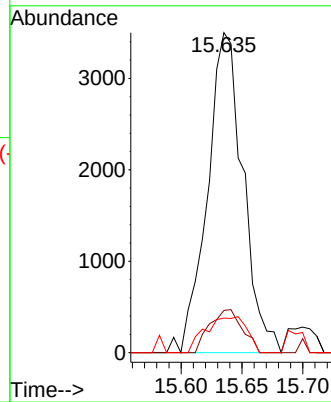
Tgt Ion:128 Resp: 7088

Ion	Ratio	Lower	Upper

128	100		

127	12.4	10.2	15.2

129	8.8	8.8	13.2





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: TULL01
 Lab Code: CHEM Case No.: Q1804 SAS No.: Q1804 SDG No.: Q1804
 Instrument ID: MSVOA_N Calibration Date(s): 04/11/2025 04/11/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:04 12:40
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN086242.D		RRF050 = VN086244.D		RRF020 = VN086245.D	
		RRF005 = VN086246.D		RRF =		RRF =	
COMPOUND	RRF100	RRF050	RRF020	RRF005	RRF	RRF	% RSD
Benzene	1.669	1.880	1.633	1.657			6.7
Toluene	1.908	2.219	1.941	1.981			7
Ethyl Benzene	2.099	2.496	2.140	2.192			8.1
m/p-Xylenes	0.795	0.939	0.789	0.796			8.8
o-Xylene	0.777	0.921	0.779	0.787			8.6
1,2-Dichloroethane-d4	2.882	2.916	2.904	3.003			1.8
Toluene-d8	1.673	1.674	1.718	1.710			1.4
4-Bromofluorobenzene	0.600	0.607	0.594	0.589			1.3

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N041125W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Sat Apr 12 01:21:52 2025
 Response Via : Initial Calibration

Calibration Files

5 =VN086246.D 20 =VN086245.D 50 =VN086244.D 100 =VN086242.D

Compound		5	20	50	100	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----					
2) M	Dichlorodifluoro...	2.072	2.325	2.758	2.460	2.404	11.88
3) M	Chloromethane	3.342	3.094	3.617	3.236	3.322	6.66
4) M	Vinyl Chloride	3.000	3.007	3.535	3.116	3.164	7.98
5) M	Bromomethane	1.819	1.475	1.638	1.382	1.578	12.19
6) M	Chloroethane	2.059	1.860	2.187	1.887	1.998	7.69
7) M	Trichlorofluorom...	3.311	3.207	3.883	3.329	3.433	8.89
8) T	Diethyl Ether	1.627	1.476	1.736	1.492	1.583	7.73
9)	1,1,2-Trichlorot...	2.048	1.998	2.381	2.040	2.117	8.38
10) M	1,1-Dichloroethene	2.418	2.145	2.464	2.111	2.284	7.97
11)	Methyl Iodide	2.589	2.463	2.976	2.474	2.626	9.17
12)	Methyl Acetate	3.256	2.970	3.736	2.942	3.226	11.42
13) M	Acrolein	0.481	0.270	0.329	0.387	0.367	24.59
14) M	Acrylonitrile	1.397	1.282	1.506	1.263	1.362	8.27
15) M	Acetone	0.363	0.329	0.389	0.300	0.345	11.27
16) M	Carbon Disulfide	7.165	6.274	6.710	6.053	6.550	7.52
17)	Allyl chloride	4.154	3.712	4.336	3.723	3.981	7.87
18) M	Methylene Chloride	2.858	2.387	2.766	2.407	2.605	9.31
19) M	trans-1,2-Dichlo...	2.616	2.221	2.557	2.231	2.406	8.71
20) T	Diisopropyl ether	8.334	8.092	9.676	8.136	8.560	8.78
21) M	1,1-Dichloroethane	4.460	4.345	5.082	4.380	4.567	7.59
22) M	cis-1,2-Dichloro...	3.000	2.690	3.101	2.674	2.866	7.57
23) M	tert-Butyl Alcohol	0.570	0.545	0.640	0.503	0.564	10.19
24) M	Methyl tert-Buty...	8.471	7.691	9.105	7.709	8.244	8.24
25) M	Chloroform	4.374	4.093	4.832	4.120	4.355	7.87
26)	Cyclohexane	4.272	3.944	4.808	4.066	4.273	8.94
27) s	1,2-Dichloroetha...	3.003	2.904	2.916	2.882	2.926	1.81
28) I	1,4-Difluorobenzene	-----ISTD-----					
29)	1,1-Dichloropropene	0.516	0.514	0.592	0.527	0.537	6.86
30) M	2-Butanone	0.287	0.290	0.336	0.278	0.298	8.77
31)	2,2-Dichloropropane	0.623	0.638	0.733	0.651	0.662	7.41
32) M	1,1,1-Trichloroe...	0.621	0.586	0.679	0.587	0.618	7.08
33) M	Carbon Tetrachlo...	0.458	0.472	0.562	0.484	0.494	9.42
34) M	Benzene	1.657	1.633	1.880	1.669	1.710	6.69
35)	Methacrylonitrile	0.338	0.318	0.366	0.321	0.336	6.49
36) M	1,2-Dichloroethane	0.516	0.512	0.591	0.521	0.535	7.04
37) M	Trichloroethene	0.387	0.396	0.463	0.403	0.413	8.30
38)	Methylcyclohexane	0.650	0.616	0.714	0.656	0.659	6.19
39) M	1,2-Dichloropropane	0.403	0.405	0.475	0.420	0.425	7.91
40)	Dibromomethane	0.277	0.260	0.301	0.261	0.275	6.91
41) M	Bromodichloromet...	0.603	0.565	0.636	0.557	0.590	6.19
42) M	Vinyl Acetate	0.998	1.000	1.092	0.965	1.014	5.40
43)	Ethyl Acetate	0.606	0.589	0.658	0.550	0.601	7.48
44)	Isopropyl Acetate	1.217	1.050	1.182	1.008	1.114	9.07
45) T	1,4-Dioxane	0.009	0.009	0.010	0.008	0.009	9.38
46)	Methyl methacrylate	0.467	0.471	0.558	0.468	0.491	9.04
47)	n-amyl Acetate	0.875	0.824	0.998	0.837	0.883	8.98
48) M	t-1,3-Dichloropr...	0.641	0.633	0.745	0.650	0.667	7.83
49) T	cis-1,3-Dichloro...	0.670	0.677	0.782	0.696	0.706	7.35
50) M	1,1,2-Trichloroe...	0.385	0.372	0.420	0.364	0.385	6.39
51)	Ethyl methacrylate	0.700	0.681	0.798	0.685	0.716	7.71
52)	1,3-Dichloropropane	0.671	0.648	0.764	0.664	0.687	7.61
53) M	Dibromochloromet...	0.406	0.404	0.469	0.407	0.422	7.49
54) M	1,2-Dibromoethane	0.386	0.370	0.429	0.371	0.389	7.12
55) M	2-Chloroethyl vi...	0.318	0.324	0.387	0.054	0.271	54.58
56) M	Bromoform	0.265	0.264	0.312	0.262	0.276	8.72

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 624N041125W.M

		-----ISTD-----					
57) I	Chlorobenzene-d5						
58) M	4-Methyl-2-Penta...	0.667	0.671	0.758	0.627	0.681	8.14
59) M	2-Hexanone	0.496	0.497	0.571	0.464	0.507	8.88
60) S	4-Bromofluoroben...	0.589	0.594	0.607	0.600	0.597	1.29
61) M	Tetrachloroethene	0.415	0.424	0.501	0.432	0.443	8.88
62) M	Toluene	1.981	1.941	2.219	1.908	2.012	7.01
63) S	Toluene-d8	1.710	1.718	1.674	1.673	1.694	1.39
64) M	Chlorobenzene	1.224	1.179	1.357	1.156	1.229	7.32
65)	1,1,1,2-Tetrachl...	0.393	0.390	0.455	0.384	0.406	8.14
66) M	Ethyl Benzene	2.192	2.140	2.496	2.099	2.232	8.07
67) M	m/p-Xylenes	0.796	0.789	0.939	0.795	0.830	8.78
68) M	o-Xylene	0.787	0.779	0.921	0.777	0.816	8.59
69) M	Styrene	1.334	1.293	1.563	1.315	1.376	9.13
70)	Isopropylbenzene	1.947	1.917	2.274	1.910	2.012	8.72
71) M	1,1,2,2-Tetrachl...	0.626	0.558	0.608	0.500	0.573	9.90
72)	1,2,3-Trichlorop...	0.606	0.566	0.662	0.550	0.596	8.37
73)	Bromobenzene	0.431	0.426	0.505	0.422	0.446	8.82
74)	n-propylbenzene	2.256	2.229	2.708	2.311	2.376	9.42
75)	2-Chlorotoluene	1.472	1.412	1.687	1.403	1.494	8.87
76)	1,3,5-Trimethylb...	1.587	1.574	1.865	1.586	1.653	8.54
77)	t-1,4-Dichloro-2...	0.266	0.261	0.313	0.259	0.275	9.36
78)	4-Chlorotoluene	1.470	1.383	1.694	1.420	1.492	9.36
79)	tert-butylbenzene	1.457	1.349	1.584	1.332	1.430	8.14
80)	1,2,4-Trimethylb...	1.586	1.600	1.912	1.607	1.676	9.40
81)	sec-Butylbenzene	1.915	1.909	2.234	1.924	1.995	7.98
82)	p-Isopropyltoluene	1.562	1.584	1.891	1.621	1.664	9.17
83) M	1,3-Dichlorobenzene	0.798	0.773	0.958	0.785	0.829	10.47
84) M	1,4-Dichlorobenzene	0.813	0.777	0.950	0.785	0.831	9.66
85)	n-Butylbenzene	1.416	1.420	1.679	1.490	1.502	8.21
86) T	Hexachloroethane	0.265	0.265	0.319	0.274	0.281	9.25
87) M	1,2-Dichlorobenzene	0.791	0.778	0.943	0.761	0.818	10.25
88)	1,2-Dibromo-3-Ch...	0.129	0.128	0.148	0.116	0.130	10.28
89)	1,2,4-Trichlorob...	0.380	0.402	0.439	0.371	0.398	7.51
90)	Hexachlorobutadiene	0.194	0.167	0.176	0.151	0.172	10.39
91) M	Naphthalene	1.578	1.548	1.756	1.396	1.569	9.41
92)	1,2,3-Trichlorob...	0.380	0.402	0.439	0.371	0.398	7.51

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086242.D
 Acq On : 11 Apr 2025 11:04
 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 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:17:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	20477	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	121329	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	110874	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	59014	29.547	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.500%		
60) 4-Bromofluorobenzene	12.847	95	66521	30.135	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.433%		
63) Toluene-d8	10.565	98	185448	29.627	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.767%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	167899	102.336	ug/l	97
3) Chloromethane	2.359	50	220891	97.412	ug/l	99
4) Vinyl Chloride	2.518	62	212658	98.457	ug/l	97
5) Bromomethane	2.959	94	94323	87.548	ug/l	99
6) Chloroethane	3.118	64	128777	94.415	ug/l	98
7) Trichlorofluoromethane	3.500	101	227259	96.994	ug/l	100
8) Diethyl Ether	3.959	74	101866	94.275	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	139276	96.398	ug/l	99
10) 1,1-Dichloroethene	4.341	96	144087	92.407	ug/l	98
11) Methyl Iodide	4.589	142	168878	94.232	ug/l	98
12) Methyl Acetate	5.018	43	200798	91.194	ug/l	99
13) Acrolein	4.177	56	131999	527.390	ug/l	100
14) Acrylonitrile	5.712	53	430948	463.608	ug/l	99
15) Acetone	4.424	58	102413	434.159	ug/l	86
16) Carbon Disulfide	4.712	76	413127	92.399	ug/l	99
17) Allyl chloride	5.018	41	254150	93.519	ug/l	98
18) Methylene Chloride	5.277	84	164274	92.405	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	152296	108.281	ug/l	99
20) Diisopropyl ether	6.665	45	555310	95.034	ug/l	96
21) 1,1-Dichloroethane	6.565	63	298980	95.915	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	182539	93.299	ug/l	97
23) tert-Butyl Alcohol	5.512	59	171504	445.280	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	526162	93.663	ug/l	98
25) Chloroform	7.965	83	281205	94.604	ug/l	96
26) Cyclohexane	8.253	56	277499	95.155	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	213302	98.138	ug/l	99
30) 2-Butanone	7.477	43	562722	467.239	ug/l	100
31) 2,2-Dichloropropane	7.488	77	263451	98.472	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	237411	94.957	ug/l	100
33) Carbon Tetrachloride	8.359	117	195904	98.048	ug/l	99
34) Benzene	8.600	78	675144	97.638	ug/l	97
35) Methacrylonitrile	7.777	41	129803	95.604	ug/l	99
36) 1,2-Dichloroethane	8.665	62	210783	97.412	ug/l	99
37) Trichloroethene	9.347	130	163126	97.775	ug/l	91
38) Methylcyclohexane	9.594	83	265418	99.571	ug/l	100
39) 1,2-Dichloropropane	9.618	63	169660	98.606	ug/l	98
40) Dibromomethane	9.706	93	105464	94.904	ug/l	99
41) Bromodichloromethane	9.882	83	225206	94.332	ug/l	99
42) Vinyl Acetate	6.600	43	1951001	475.901	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086242.D
 Acq On : 11 Apr 2025 11:04
 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 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:17:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Sat Apr 12 00:09:06 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	222324	91.520	ug/l	99
44) Isopropyl Acetate	8.682	43	407532	90.431	ug/l	98
45) 1,4-Dioxane	9.694	88	65820	1836.730	ug/l #	92
46) Methyl methacrylate	9.676	41	189237	95.302	ug/l	99
47) n-amyl Acetate	12.488	43	338467	92.953	ug/l	99
48) t-1,3-Dichloropropene	10.829	75	263069	97.471	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	281650	98.600	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	147343	94.534	ug/l	98
51) Ethyl methacrylate	10.870	69	276983	95.629	ug/l	97
52) 1,3-Dichloropropane	11.159	76	268559	96.673	ug/l	99
53) Dibromochloromethane	11.359	129	164626	96.562	ug/l	100
54) 1,2-Dibromoethane	11.465	107	149844	95.239	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	109257	99.826	ug/l	99
56) Bromoform	12.576	173	105955	94.994	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	1157830	460.173	ug/l	99
59) 2-Hexanone	11.194	43	858112	458.017	ug/l	100
61) Tetrachloroethene	11.100	164	159732	97.556	ug/l	96
62) Toluene	10.629	91	705070	94.810	ug/l	99
64) Chlorobenzene	11.888	112	427265	94.040	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	142064	94.745	ug/l	99
66) Ethyl Benzene	11.959	91	775657	94.050	ug/l	98
67) m/p-Xylenes	12.070	106	587623	191.616	ug/l	99
68) o-Xylene	12.394	106	287174	95.205	ug/l	98
69) Styrene	12.406	104	486004	95.537	ug/l	99
70) Isopropylbenzene	12.694	105	705950	94.920	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	184643	87.222	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	203289m	67.831	ug/l	
73) Bromobenzene	12.976	156	155884	94.613	ug/l	99
74) n-propylbenzene	13.035	91	854262	96.989	ug/l	100
75) 2-Chlorotoluene	13.123	91	518416	93.916	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	586325	95.970	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	95696	94.184	ug/l	92
78) 4-Chlorotoluene	13.217	91	524792	95.194	ug/l	99
79) tert-butylbenzene	13.435	119	492114	93.090	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	593988	95.880	ug/l	99
81) sec-Butylbenzene	13.611	105	711037	96.423	ug/l	99
82) p-Isopropyltoluene	13.723	119	599176	97.402	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	290118	94.739	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	290254	94.482	ug/l	100
85) n-Butylbenzene	14.053	91	550772	99.247	ug/l	100
86) Hexachloroethane	14.329	117	101143	97.469	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	281264	93.023	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	42853	88.876	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	137279	93.313	ug/l	100
90) Hexachlorobutadiene	15.500	225	55837	87.904	ug/l	99
91) Naphthalene	15.635	128	516032	88.964	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	137279	93.313	ug/l	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086242.D
 Acq On : 11 Apr 2025 11:04
 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 04/14/2025

Supervised By : Mahesh Dadoda 04/14/2025

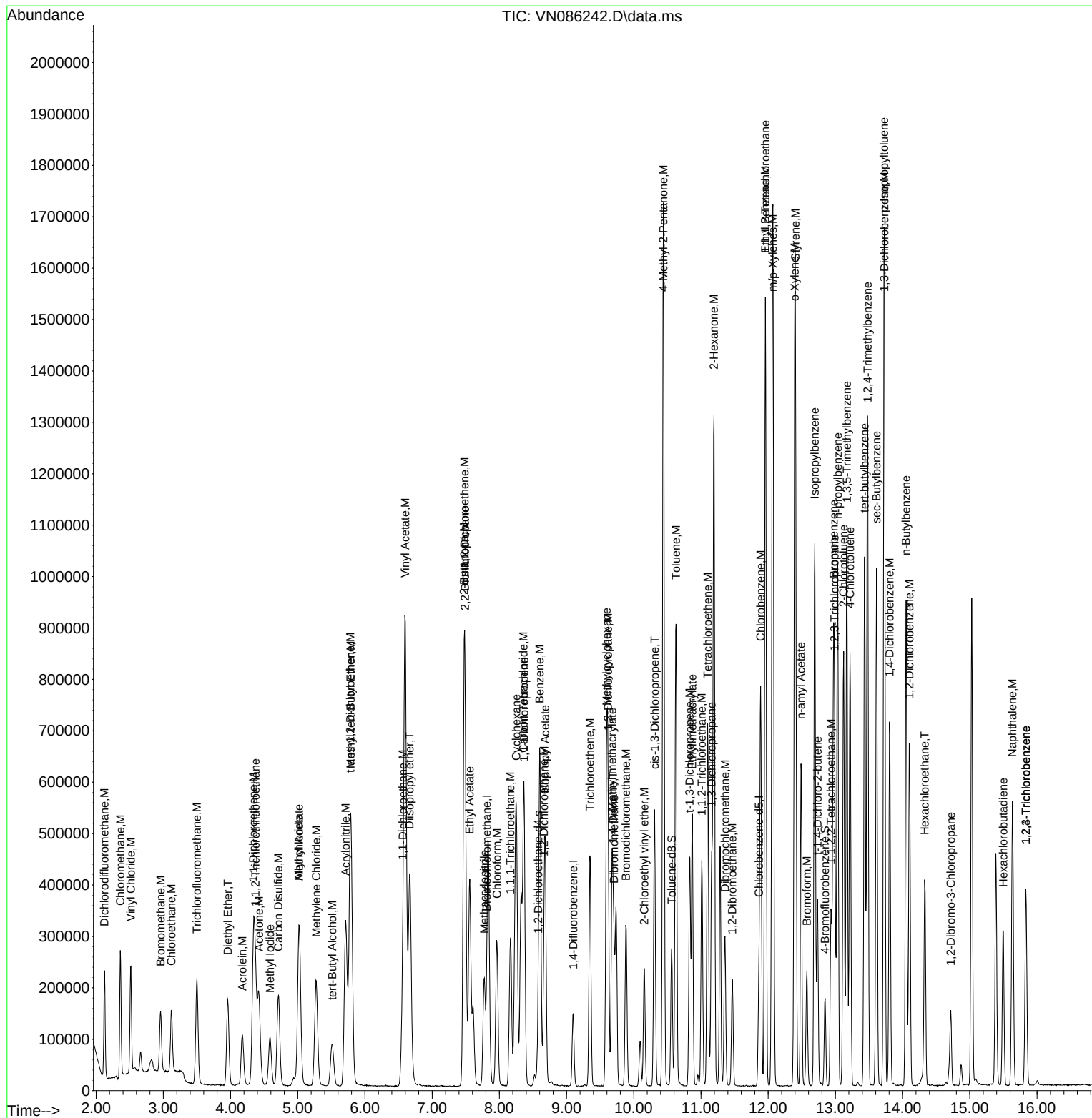
Quant Time: Apr 12 00:17:52 2025

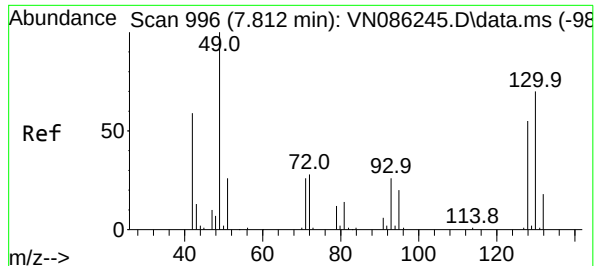
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Sat Apr 12 00:09:06 2025

Response via : Initial Calibration





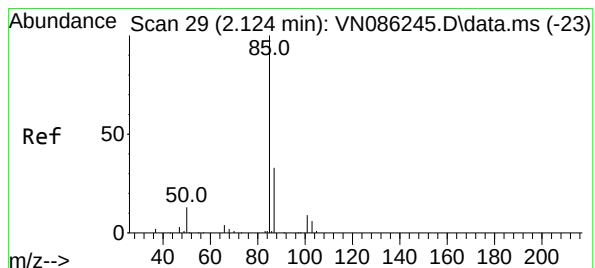
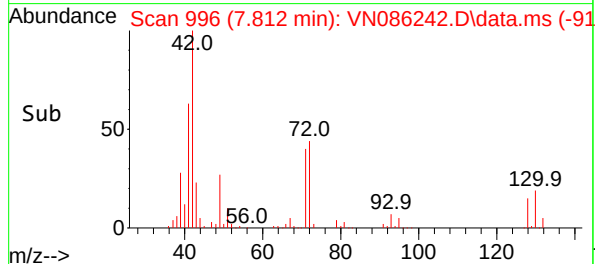
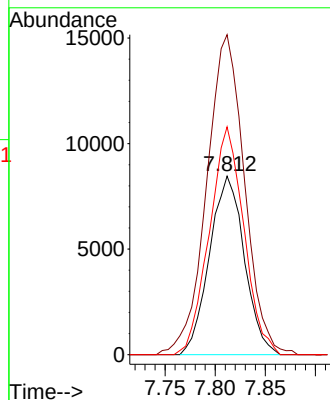
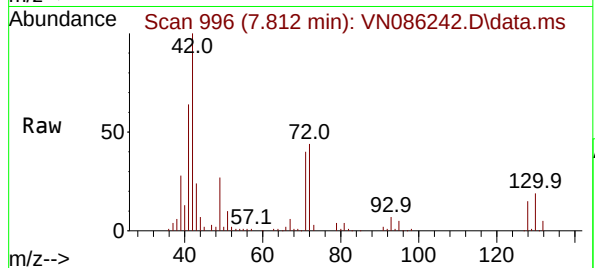
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 2047
Ion Ratio Lower Upper
128 100
49 194.2 0.0 452.5
130 126.4 0.0 315.0

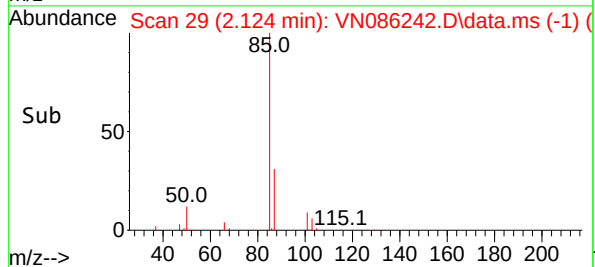
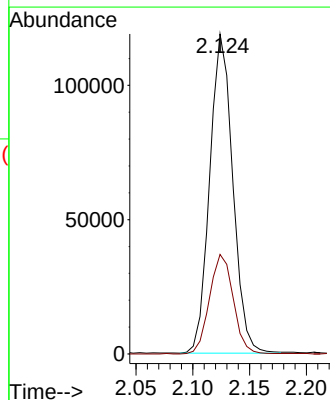
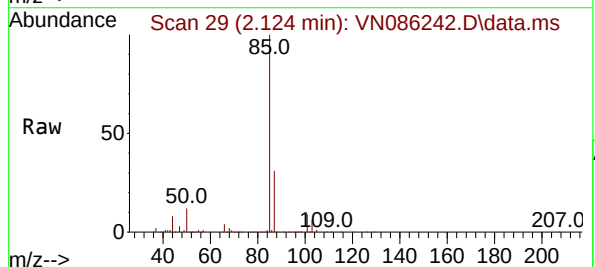
Manual Integrations
APPROVED

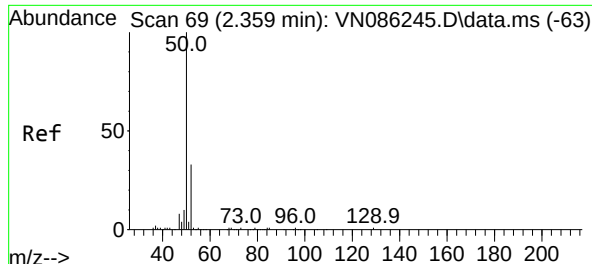
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#2
Dichlorodifluoromethane
Concen: 102.336 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 85 Resp: 167899
Ion Ratio Lower Upper
85 100
87 31.2 16.3 48.9





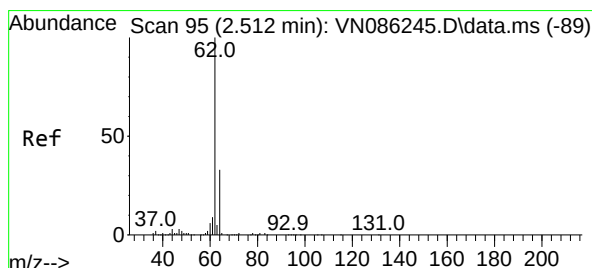
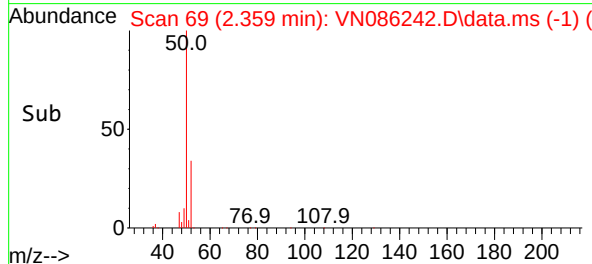
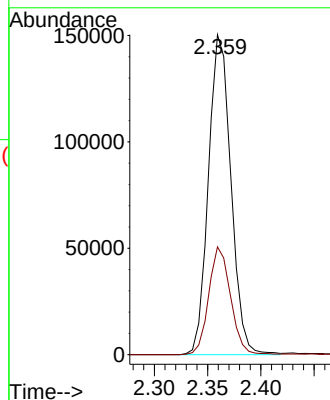
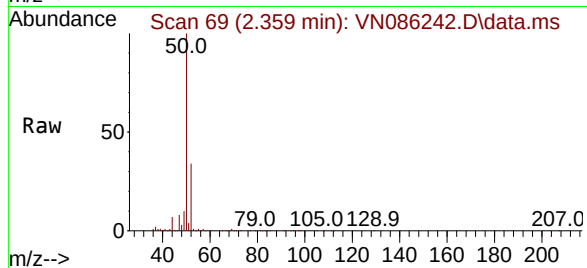
#3
Chloromethane
Concen: 97.412 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 22089
Ion Ratio Lower Upper
50 100
52 33.7 26.4 39.6

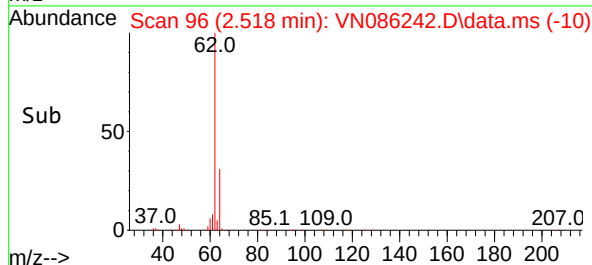
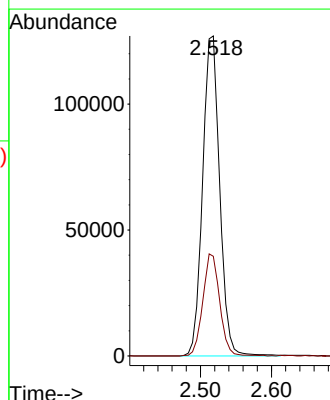
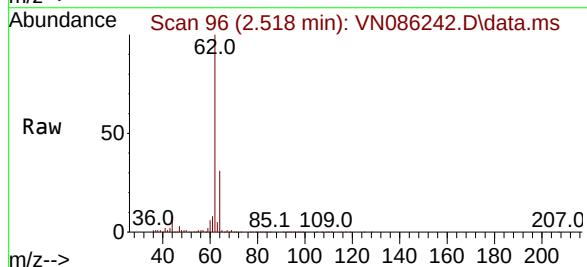
Manual Integrations
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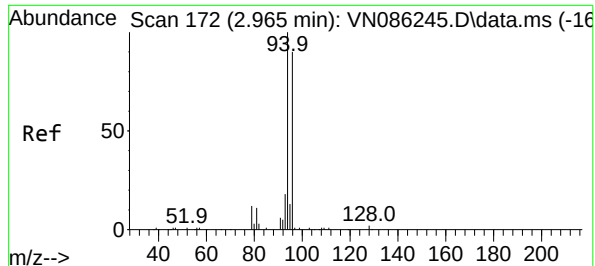
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 98.457 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 62 Resp: 212658
Ion Ratio Lower Upper
62 100
64 31.1 26.3 39.5





#5

Bromomethane

Concen: 87.548 ug/l

RT: 2.959 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 94 Resp: 9432

Ion Ratio Lower Upper

94 100

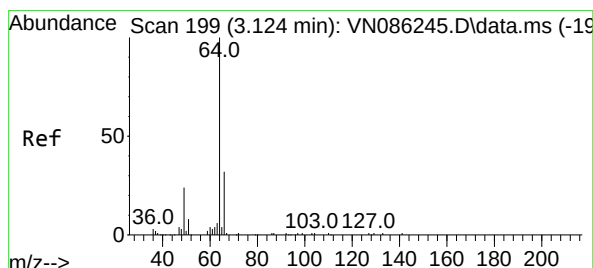
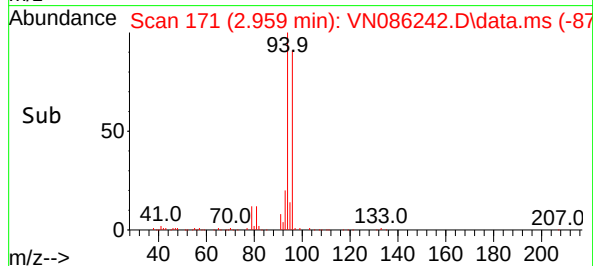
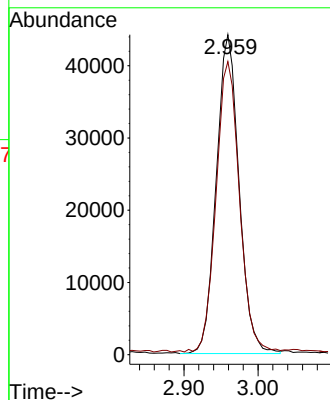
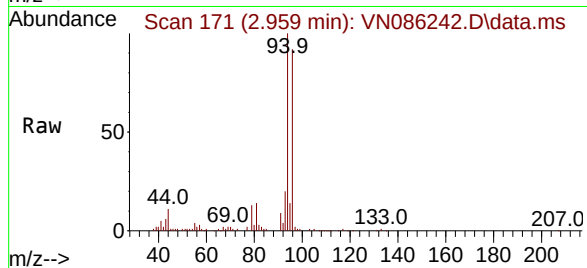
96 90.7 72.2 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#6

Chloroethane

Concen: 94.415 ug/l

RT: 3.118 min Scan# 198

Delta R.T. -0.006 min

Lab File: VN086242.D

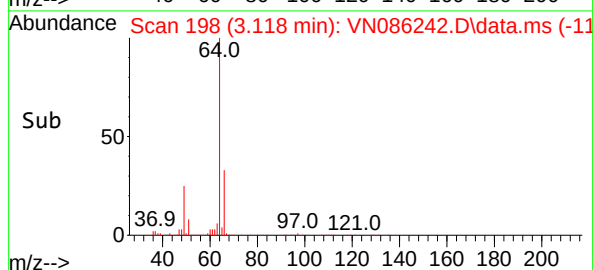
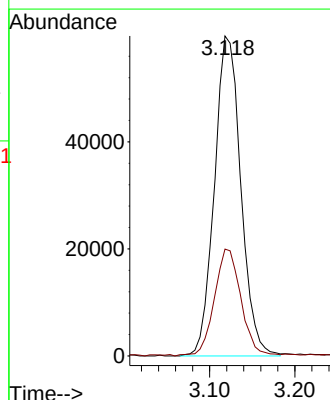
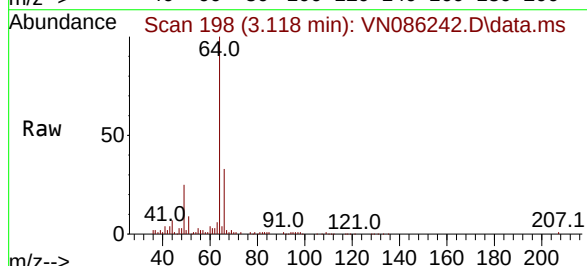
Acq: 11 Apr 2025 11:04

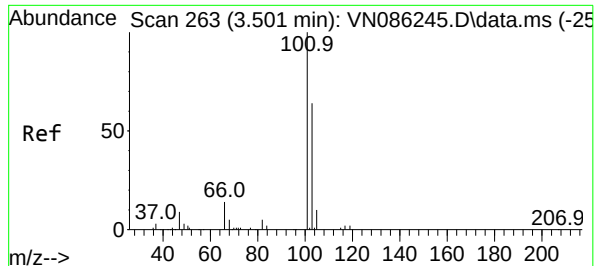
Tgt Ion: 64 Resp: 128777

Ion Ratio Lower Upper

64 100

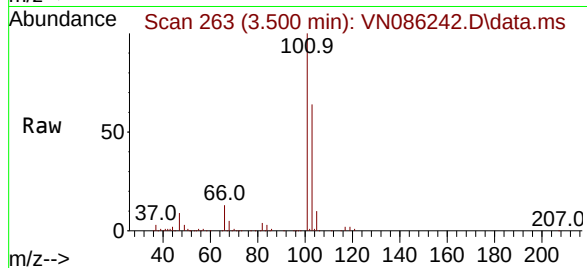
66 33.0 25.7 38.5





#7
Trichlorofluoromethane
Concen: 96.994 ug/l
RT: 3.500 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

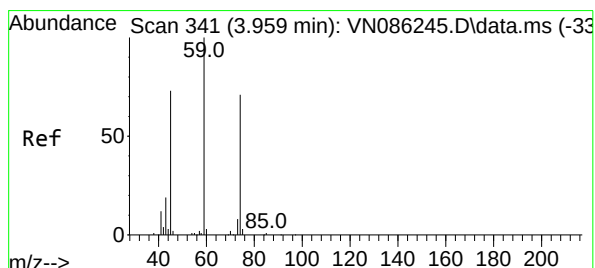
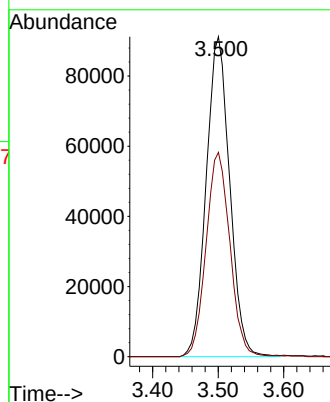
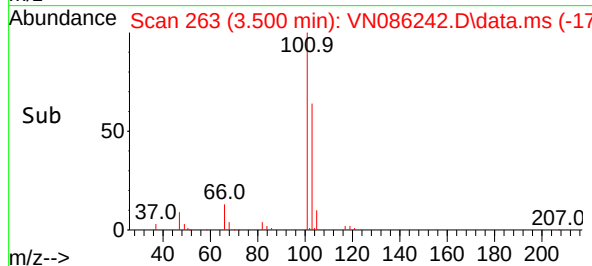
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:101 Resp: 227259
Ion Ratio Lower Upper
101 100
103 63.8 51.2 76.8

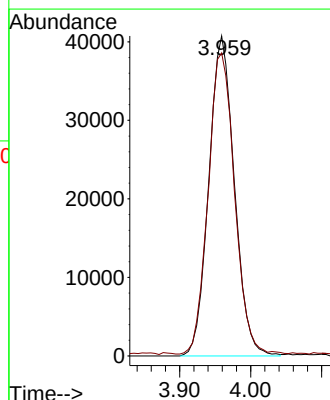
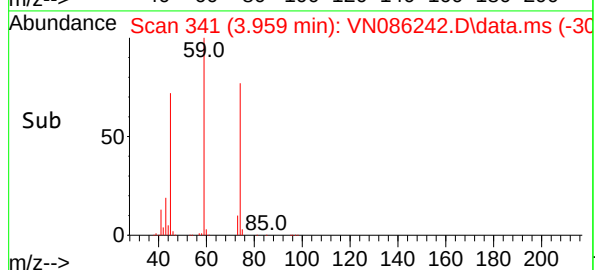
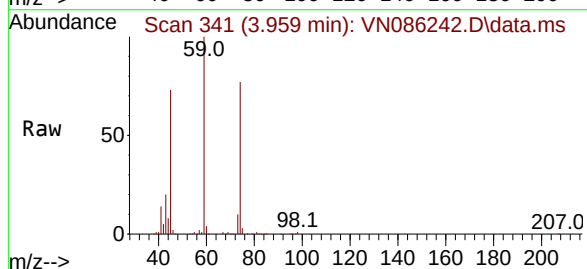
Manual Integrations
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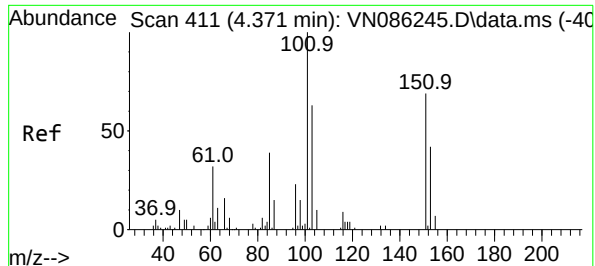
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#8
Diethyl Ether
Concen: 94.275 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 74 Resp: 101866
Ion Ratio Lower Upper
74 100
45 96.7 19.2 173.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 96.398 ug/l

RT: 4.371 min Scan# 411

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

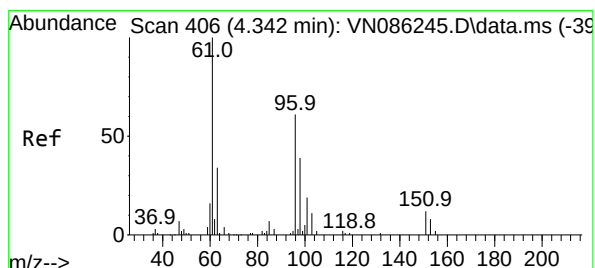
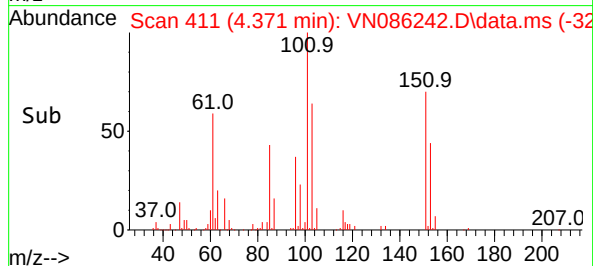
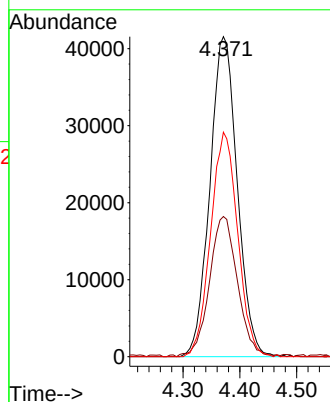
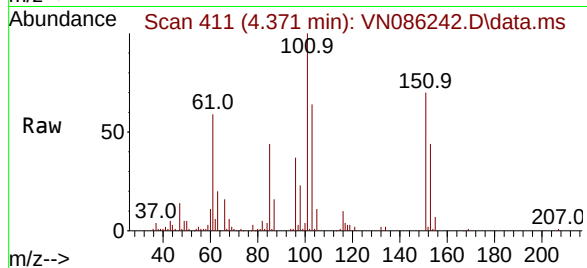
Tgt Ion	101	Resp	139270
Ion	Ratio	Lower	Upper
101	100		
85	44.7	0.0	93.0
151	69.2	0.0	138.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#10

1,1-Dichloroethene

Concen: 92.407 ug/l

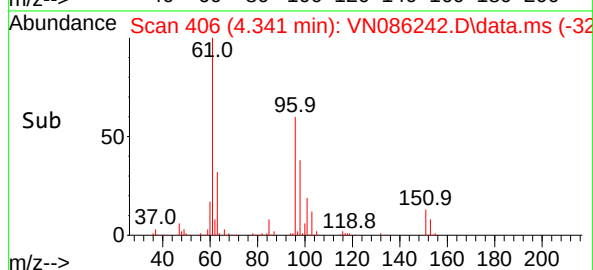
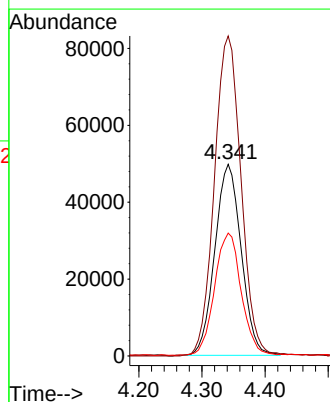
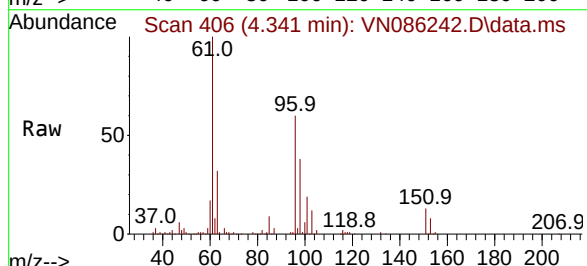
RT: 4.341 min Scan# 406

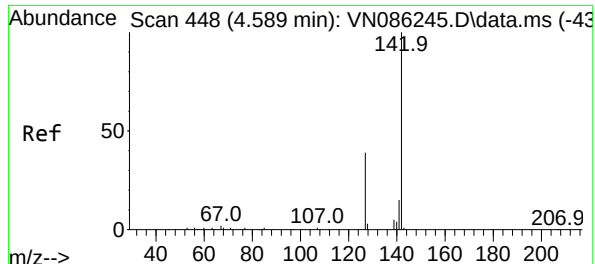
Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Tgt Ion	96	Resp	144087
Ion	Ratio	Lower	Upper
96	100		
61	167.5	131.1	196.7
98	63.7	51.6	77.4





#11

Methyl Iodide

Concen: 94.232 ug/l

RT: 4.589 min Scan# 448

Delta R.T. -0.000 min

Lab File: VN086242.D

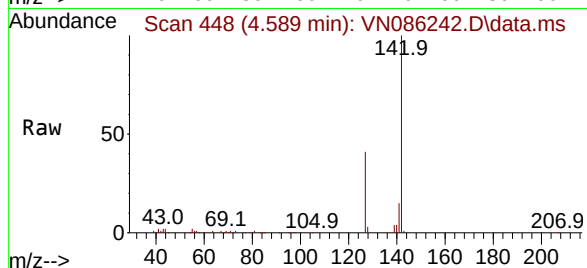
Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100



Tgt Ion:142 Resp: 168878

Ion Ratio Lower Upper

142 100

127 40.8 19.6 58.8

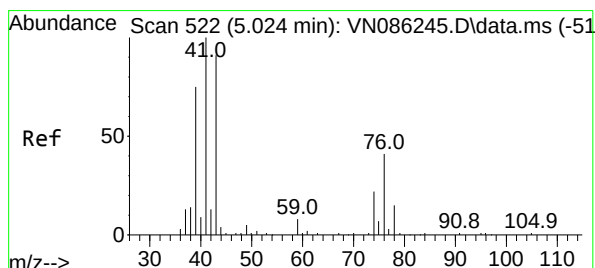
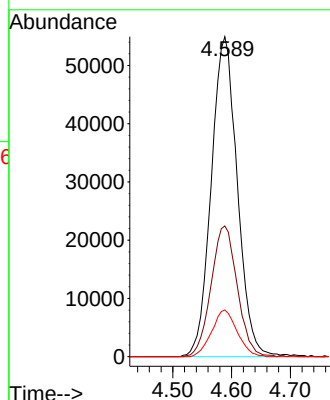
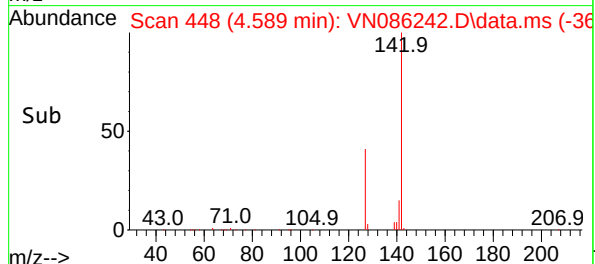
141 14.6 7.3 21.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#12

Methyl Acetate

Concen: 91.194 ug/l

RT: 5.018 min Scan# 521

Delta R.T. -0.006 min

Lab File: VN086242.D

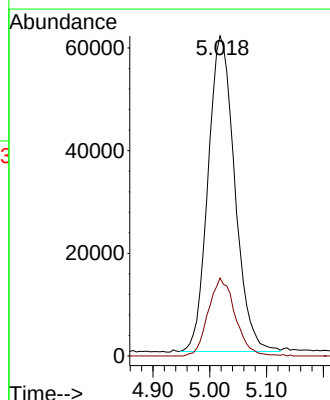
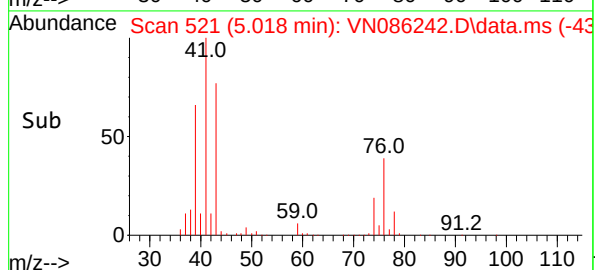
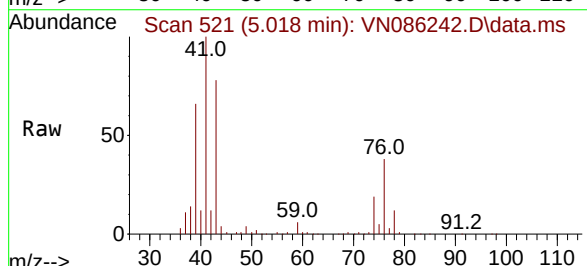
Acq: 11 Apr 2025 11:04

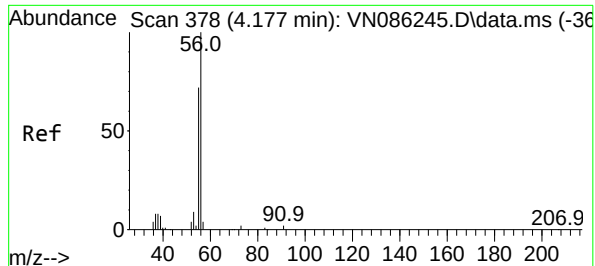
Tgt Ion: 43 Resp: 200798

Ion Ratio Lower Upper

43 100

74 24.6 19.1 28.7





#13

Acrolein

Concen: 527.390 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 131999

Ion Ratio Lower Upper

56 100

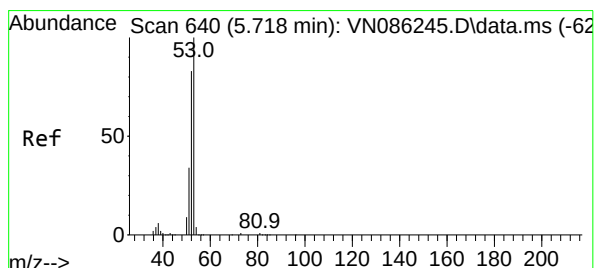
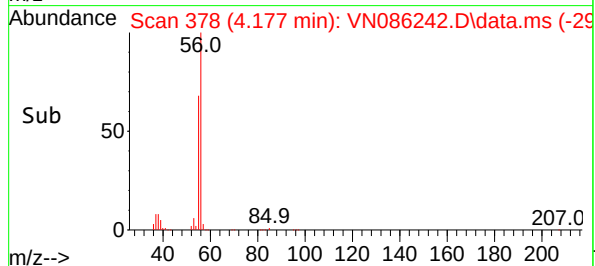
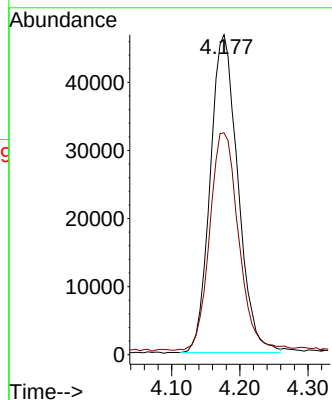
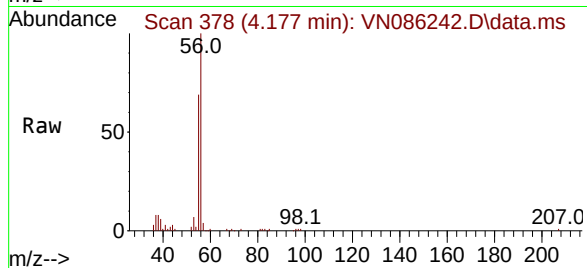
55 70.9 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#14

Acrylonitrile

Concen: 463.608 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

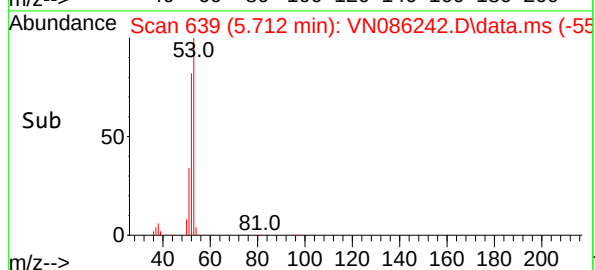
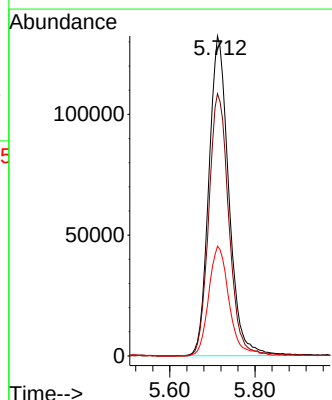
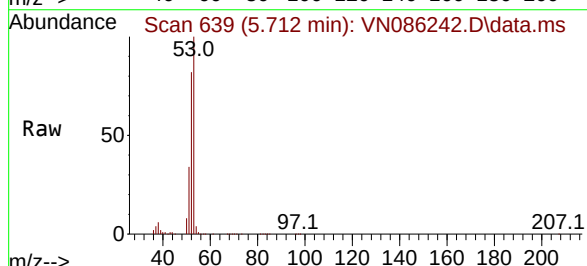
Tgt Ion: 53 Resp: 430948

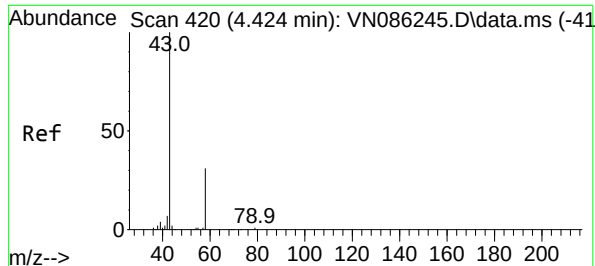
Ion Ratio Lower Upper

53 100

52 82.1 40.2 120.6

51 35.1 17.5 52.6





#15

Acetone

Concen: 434.159 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 58 Resp: 10241

Ion Ratio Lower Upper

58 100

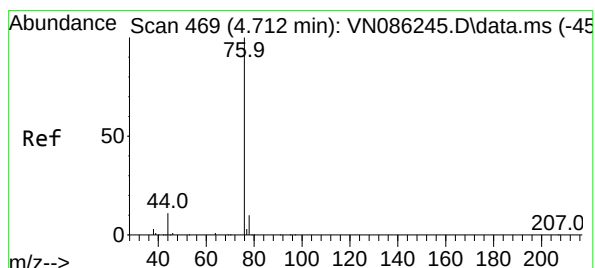
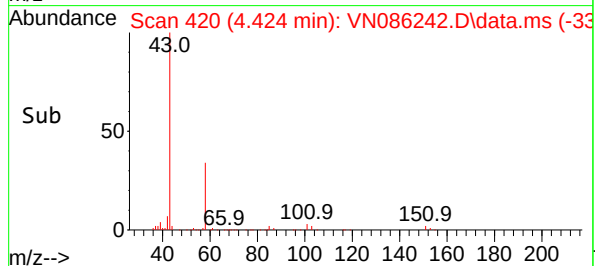
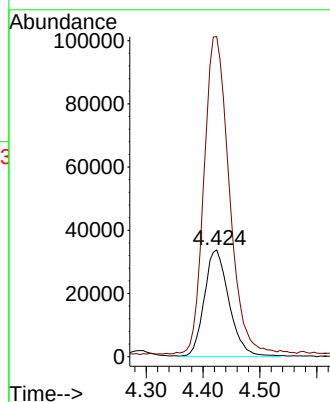
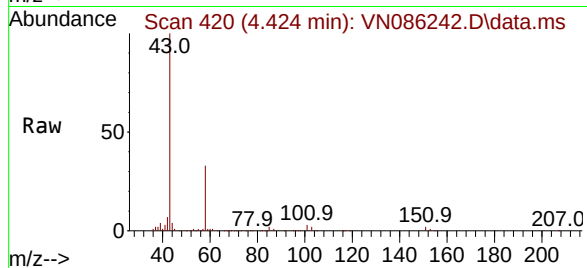
43 297.7 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#16

Carbon Disulfide

Concen: 92.399 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086242.D

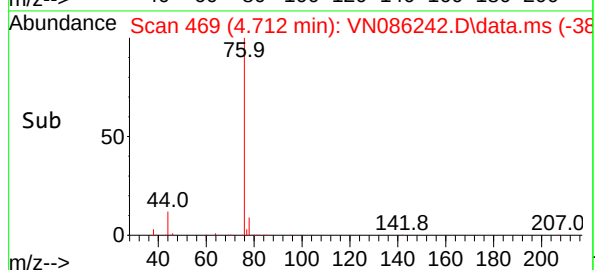
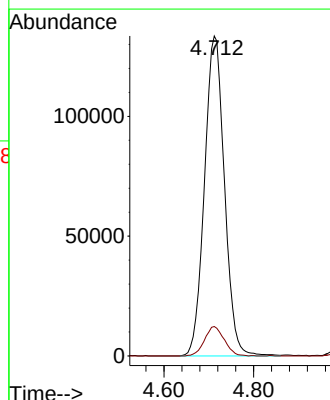
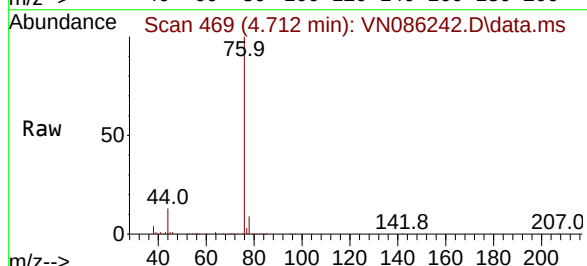
Acq: 11 Apr 2025 11:04

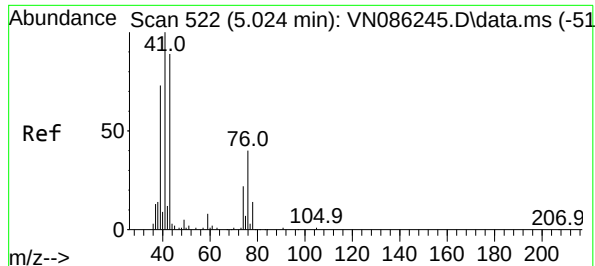
Tgt Ion: 76 Resp: 413127

Ion Ratio Lower Upper

76 100

78 9.2 7.7 11.5





#17

Allyl chloride

Concen: 93.519 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086242.D

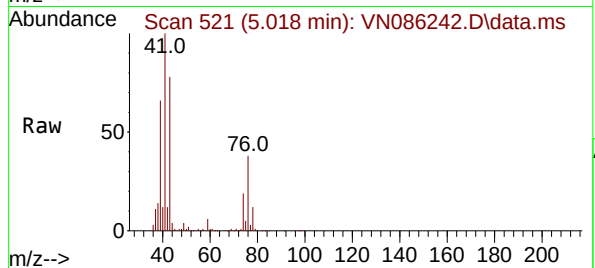
Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100



Tgt Ion: 41 Resp: 254150

Ion Ratio Lower Upper

41 100

39 66.6 34.4 103.2

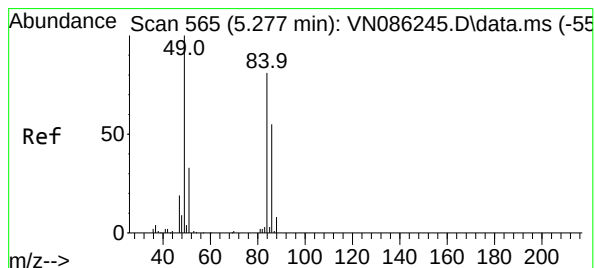
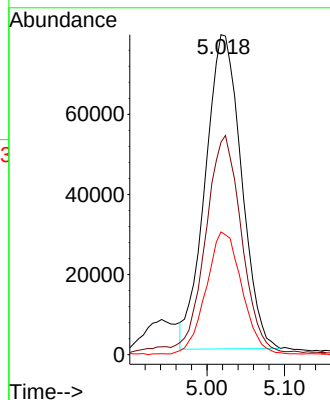
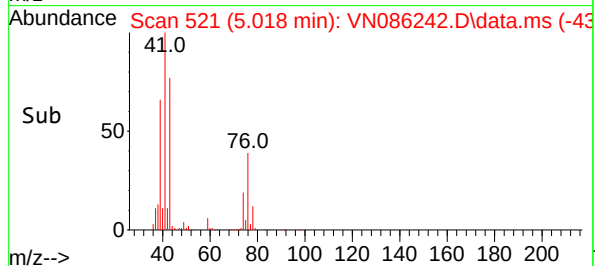
76 38.5 18.8 56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#18

Methylene Chloride

Concen: 92.405 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Tgt Ion: 84 Resp: 164274

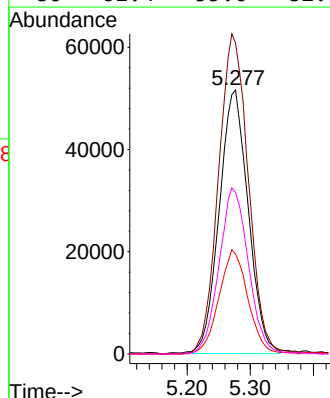
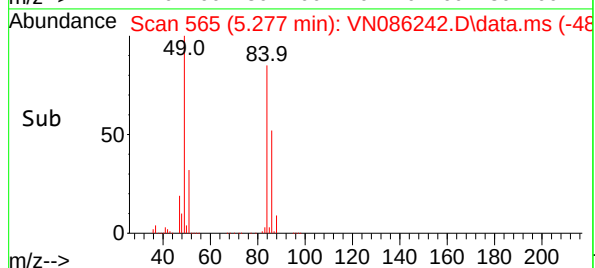
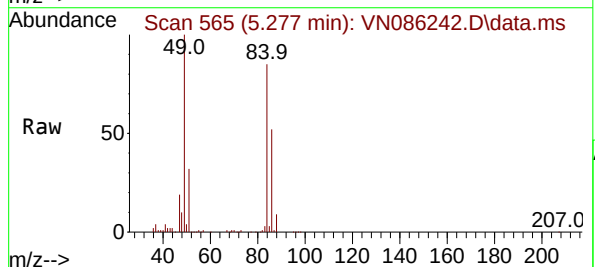
Ion Ratio Lower Upper

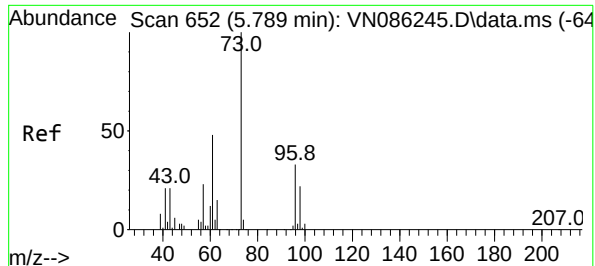
84 100

49 118.2 99.1 148.7

51 38.0 32.3 48.5

86 61.4 55.0 82.4





#19

trans-1,2-Dichloroethene

Concen: 108.281 ug/l

RT: 5.783 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 152290

Ion Ratio Lower Upper

96 100

61 145.7 115.9 173.9

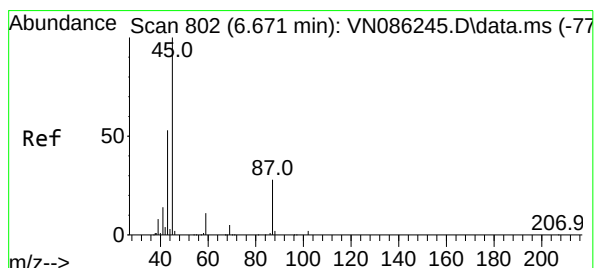
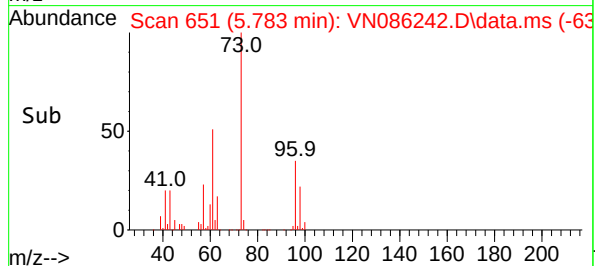
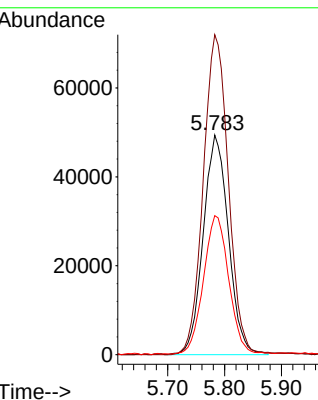
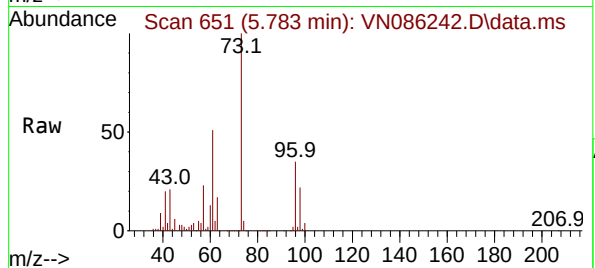
98 62.9 52.1 78.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#20

Diisopropyl ether

Concen: 95.034 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Tgt Ion: 45 Resp: 555310

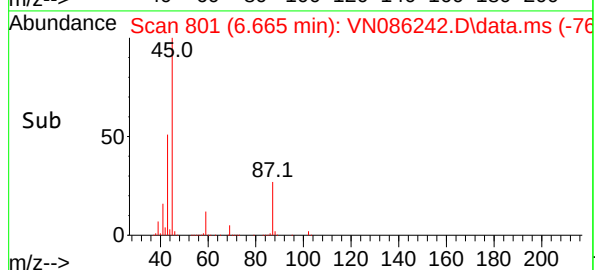
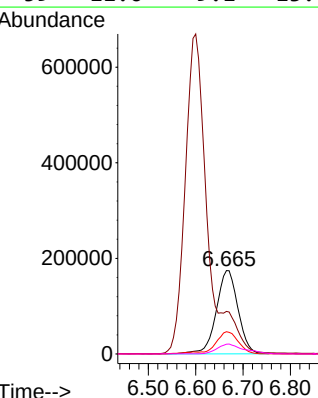
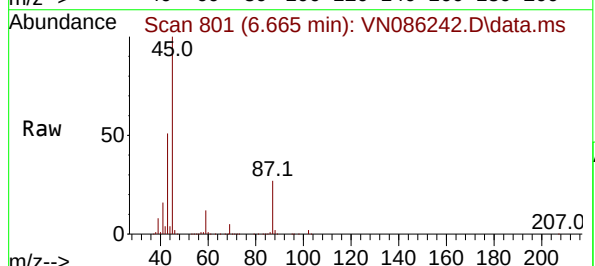
Ion Ratio Lower Upper

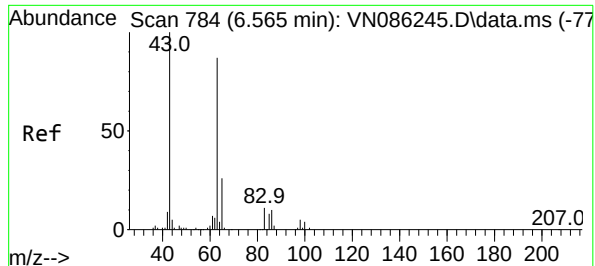
45 100

43 49.6 42.3 63.5

87 26.5 22.2 33.4

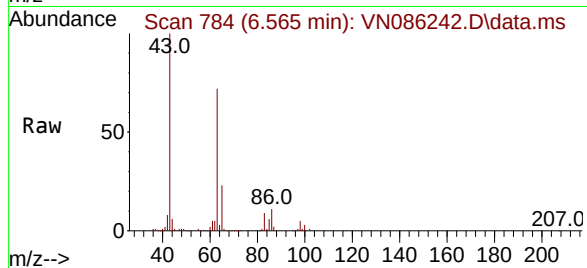
59 11.6 9.1 13.7





#21
1,1-Dichloroethane
Concen: 95.915 ug/l
RT: 6.565 min Scan# 784
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

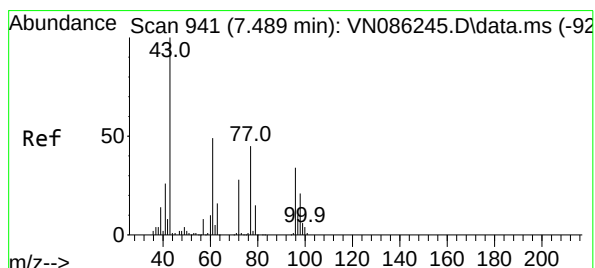
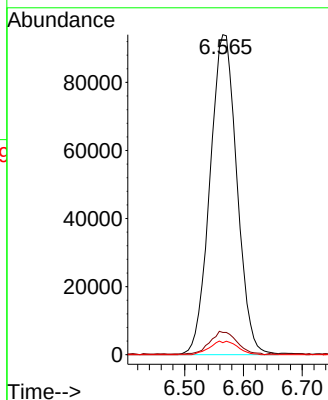
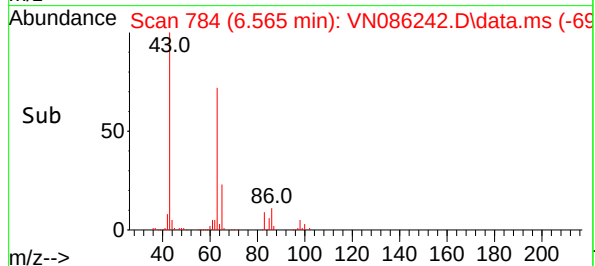
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 63 Resp: 298980
Ion Ratio Lower Upper
63 100
98 6.7 3.1 9.3
100 3.8 2.3 6.9

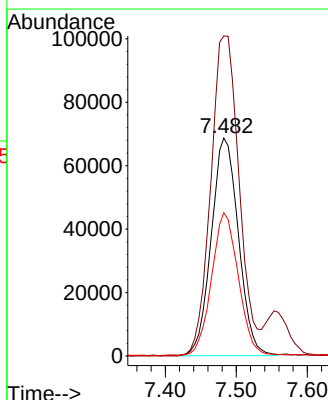
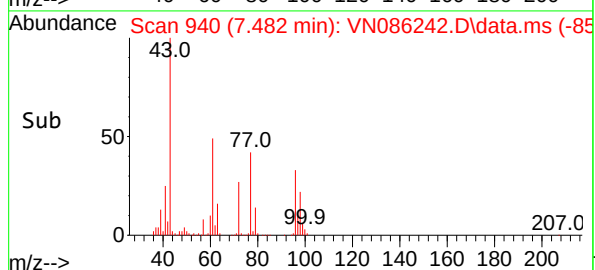
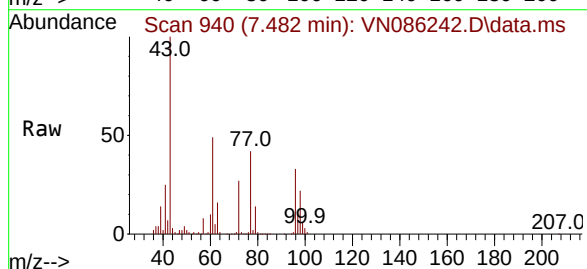
Manual Integrations
APPROVED

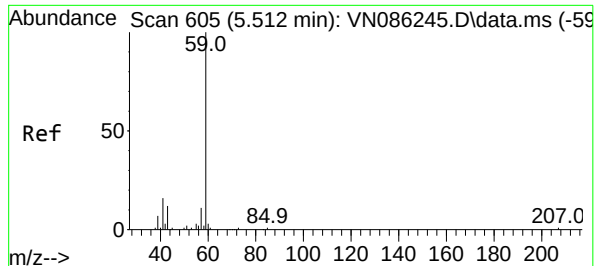
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#22
cis-1,2-Dichloroethene
Concen: 93.299 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

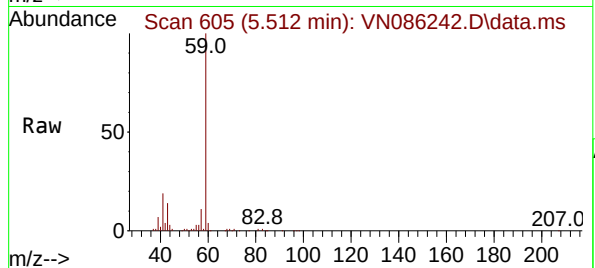
Tgt Ion: 96 Resp: 182539
Ion Ratio Lower Upper
96 100
61 154.3 119.5 179.3
98 64.4 51.0 76.6





#23
tert-Butyl Alcohol
Concen: 445.280 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

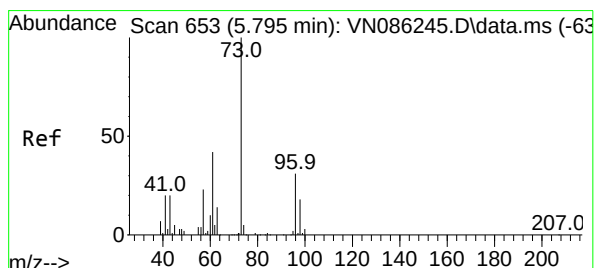
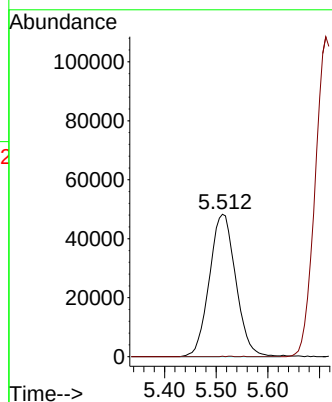
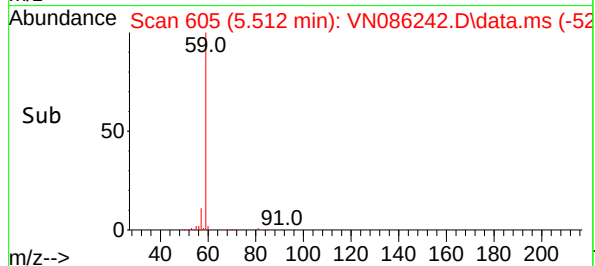
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 59 Resp: 171504
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

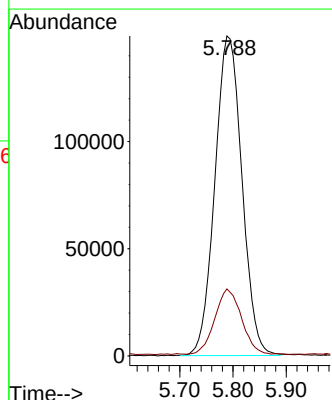
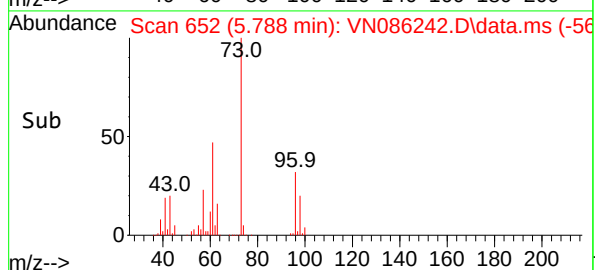
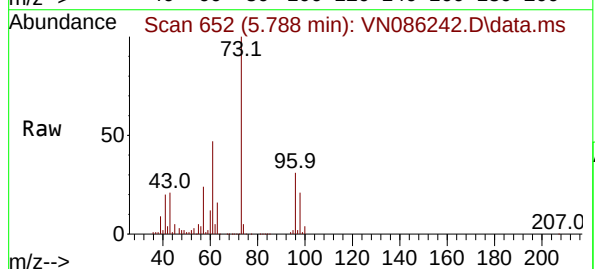
Manual Integrations
APPROVED

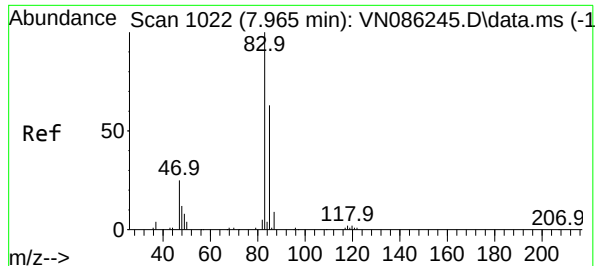
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#24
Methyl tert-Butyl Ether
Concen: 93.663 ug/l
RT: 5.788 min Scan# 652
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 73 Resp: 526162
Ion Ratio Lower Upper
73 100
43 19.9 16.8 25.2





#25

Chloroform

Concen: 94.604 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 28120

Ion Ratio Lower Upper

83 100

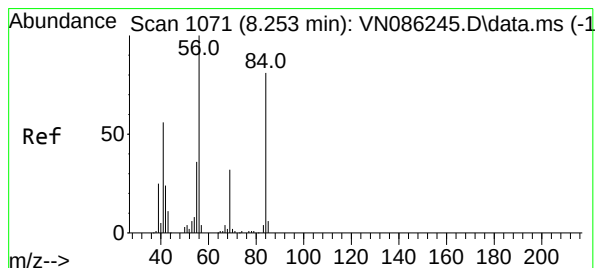
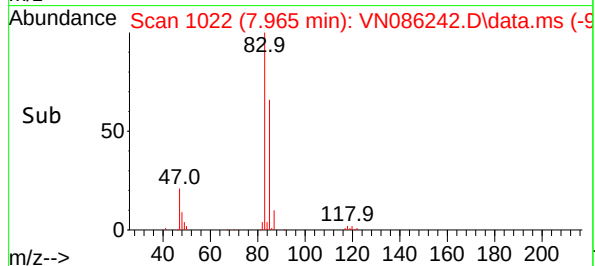
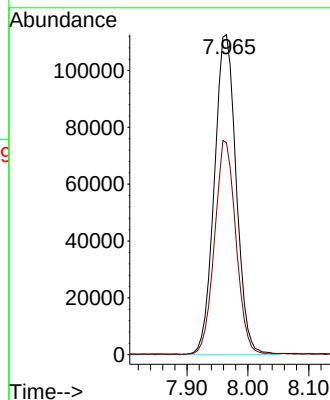
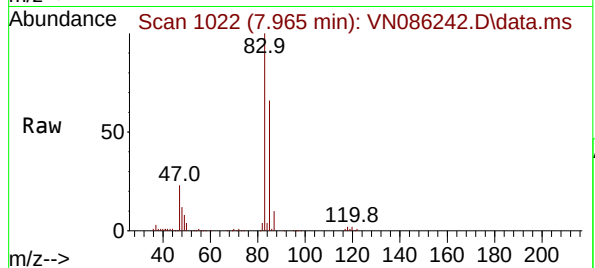
85 66.0 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#26

Cyclohexane

Concen: 95.155 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

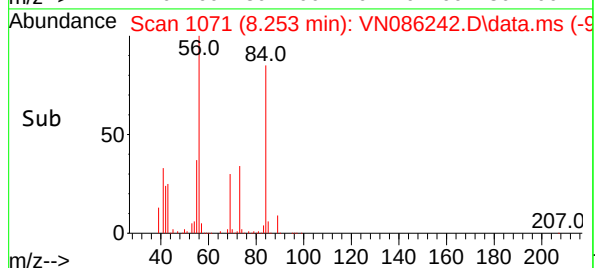
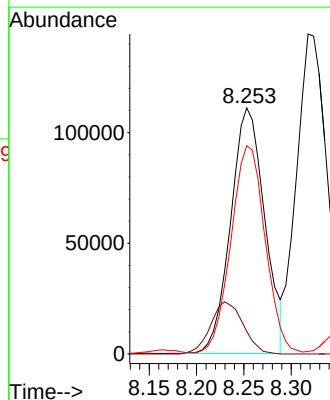
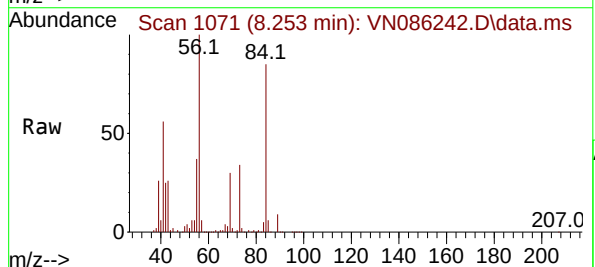
Tgt Ion: 56 Resp: 277499

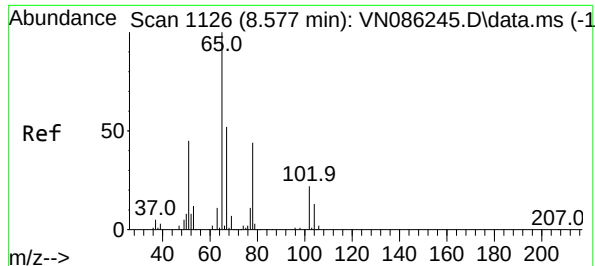
Ion Ratio Lower Upper

56 100

89 20.3 0.0 0.0#

84 85.5 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 29.547 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 59014

Ion Ratio Lower Upper

65 100

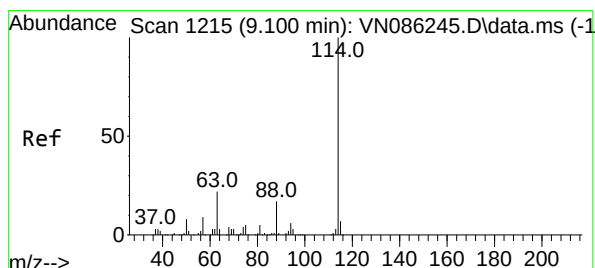
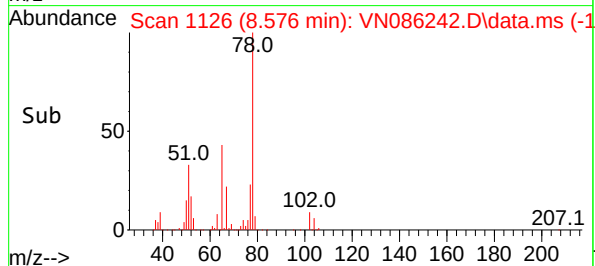
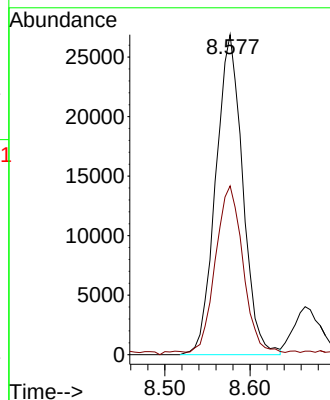
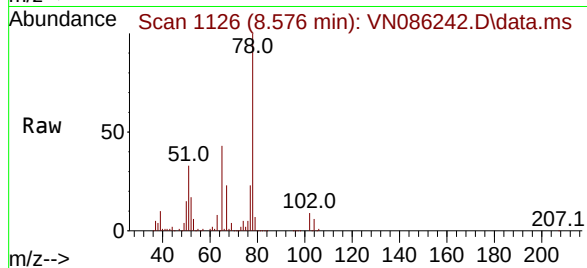
67 52.6 43.4 65.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

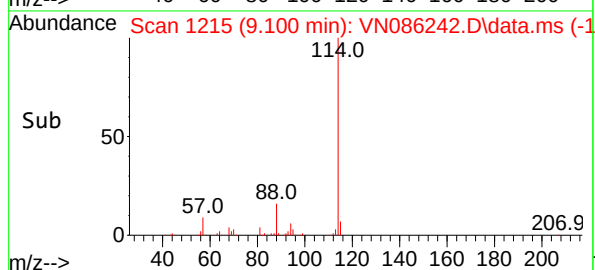
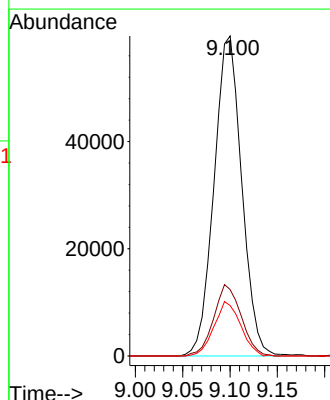
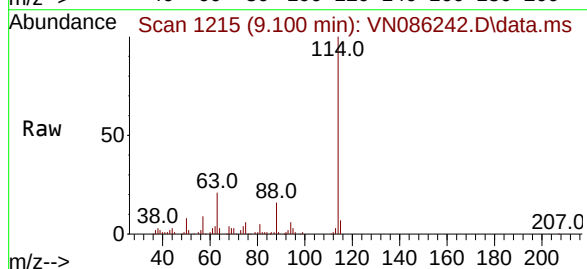
Tgt Ion:114 Resp: 121329

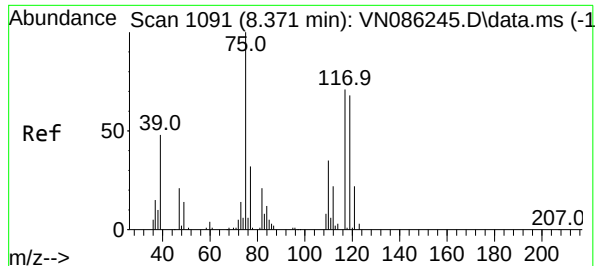
Ion Ratio Lower Upper

114 100

63 22.1 17.8 26.6

88 16.3 13.4 20.2





#29

1,1-Dichloropropene

Concen: 98.138 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 21330

Ion Ratio Lower Upper

75 100

110 33.2 0.0 68.6

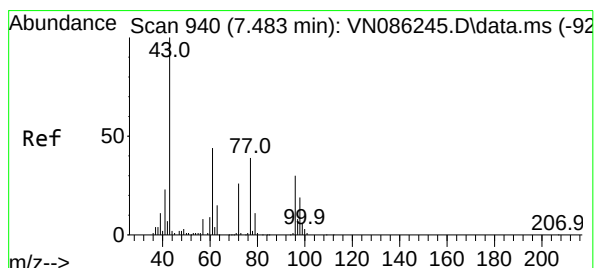
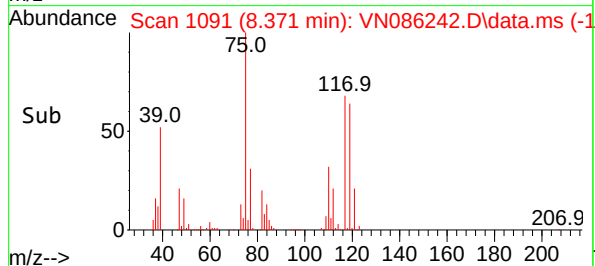
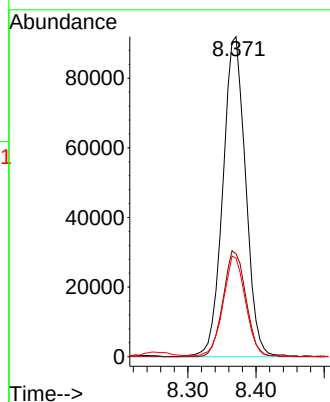
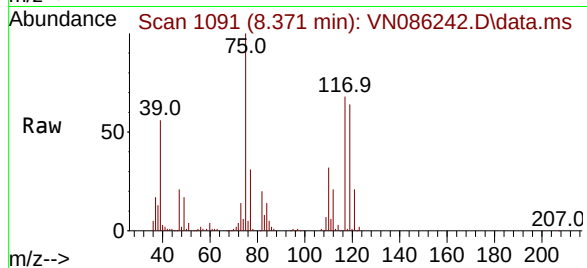
77 31.4 0.0 63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#30

2-Butanone

Concen: 467.239 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

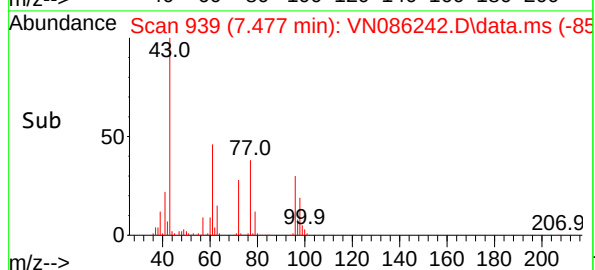
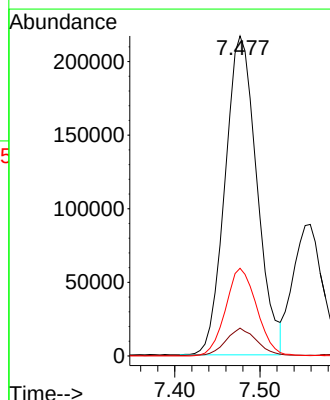
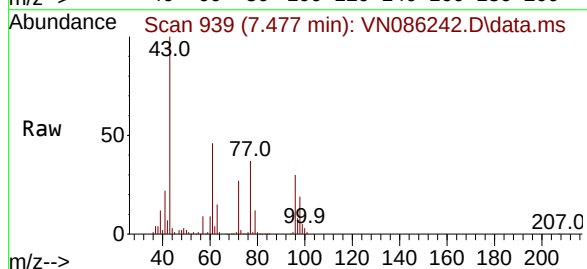
Tgt Ion: 43 Resp: 562722

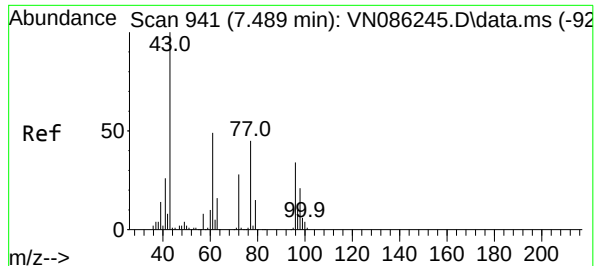
Ion Ratio Lower Upper

43 100

57 8.2 6.4 9.6

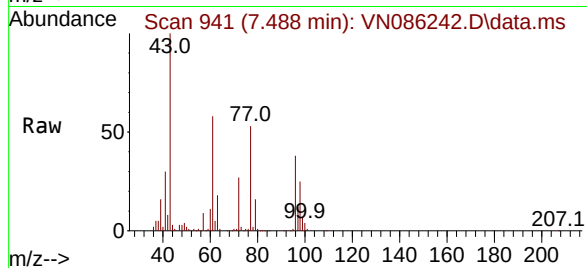
72 27.0 21.5 32.3





#31
2,2-Dichloropropane
Concen: 98.472 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

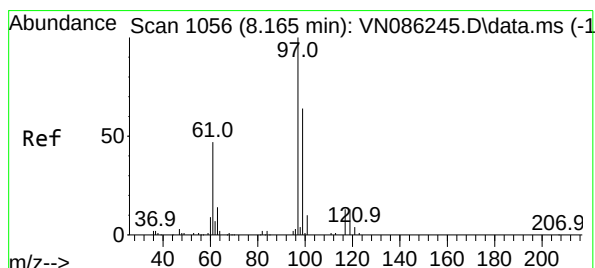
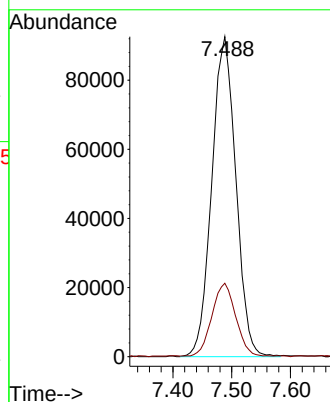
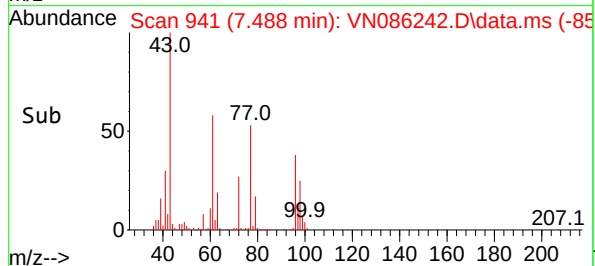
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 77 Resp: 26345
Ion Ratio Lower Upper
77 100
97 22.6 18.8 28.2

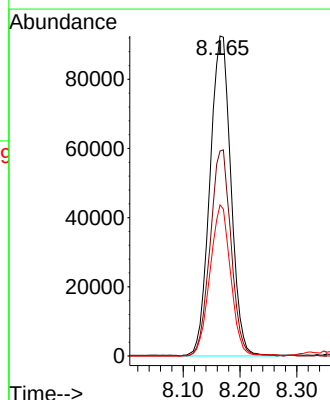
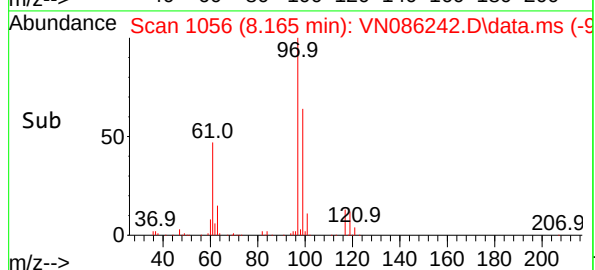
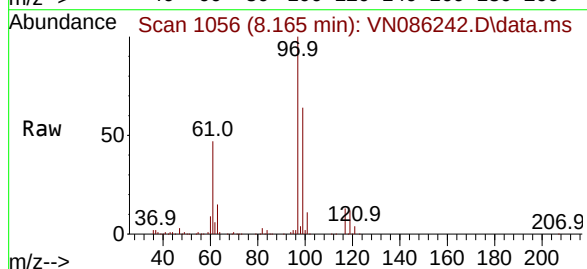
Manual Integrations
APPROVED

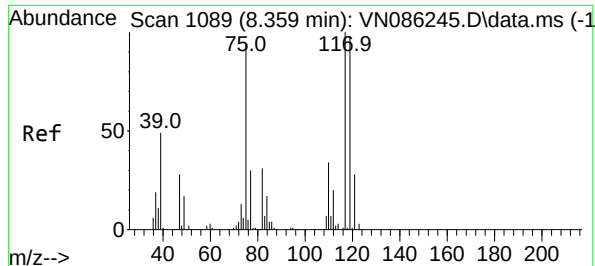
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#32
1,1,1-Trichloroethane
Concen: 94.957 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

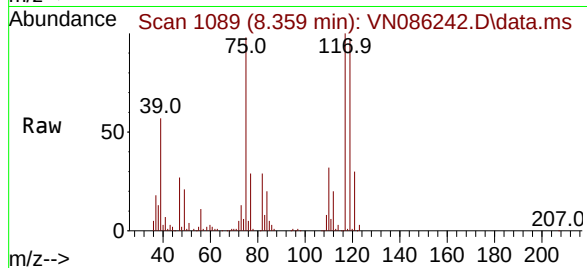
Tgt Ion: 97 Resp: 237411
Ion Ratio Lower Upper
97 100
99 64.1 51.4 77.2
61 46.3 37.0 55.6





#33
Carbon Tetrachloride
Concen: 98.048 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

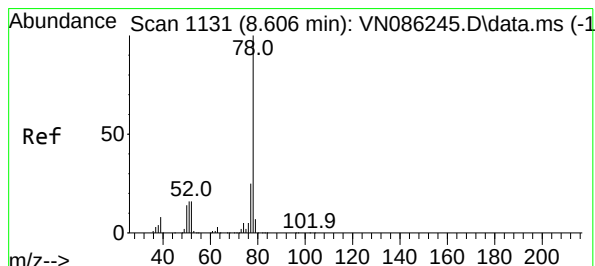
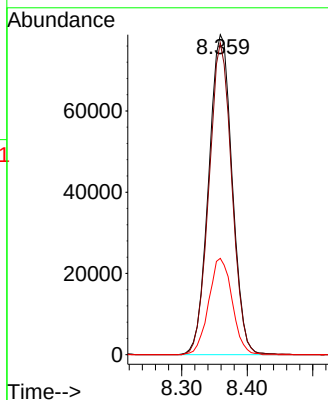
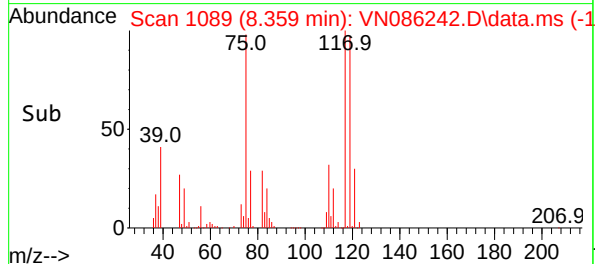
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:117 Resp: 195904
Ion Ratio Lower Upper
117 100
119 97.4 78.3 117.5
121 30.1 22.5 33.7

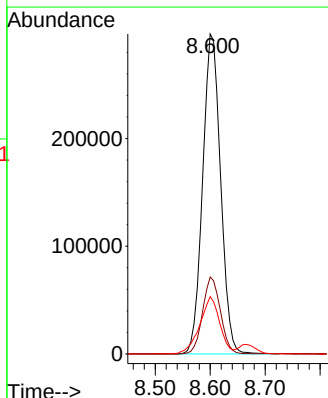
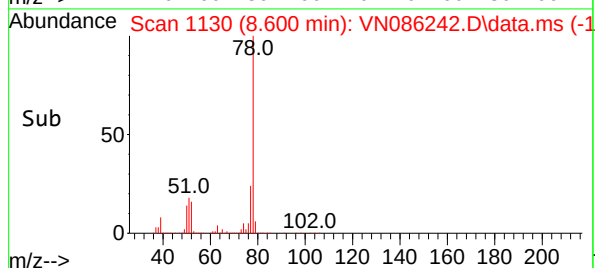
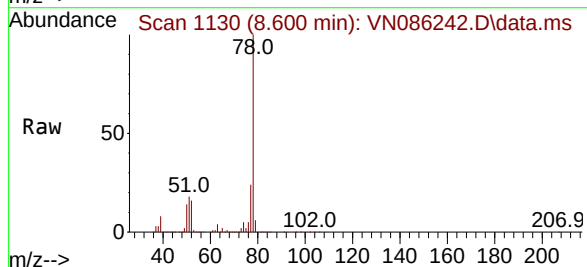
Manual Integrations
APPROVED

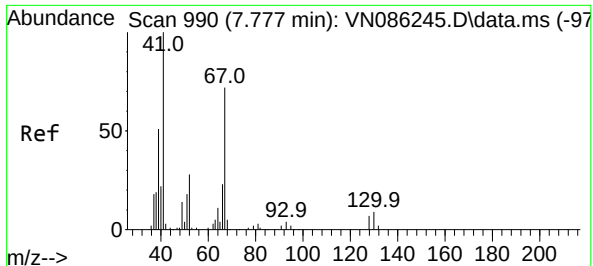
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#34
Benzene
Concen: 97.638 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 78 Resp: 675144
Ion Ratio Lower Upper
78 100
77 24.1 20.0 30.0
51 17.9 12.9 19.3





#35

Methacrylonitrile

Concen: 95.604 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 41 Resp: 12980

Ion Ratio Lower Upper

41 100

39 51.5 25.8 77.3

67 70.4 36.0 108.0

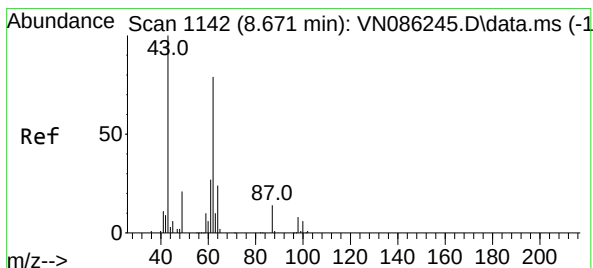
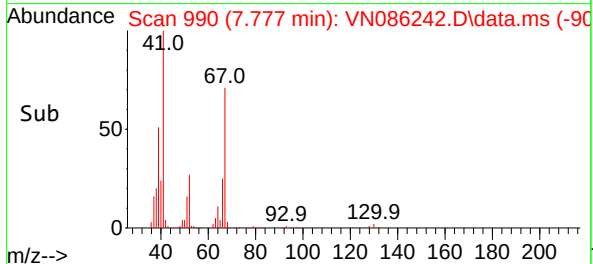
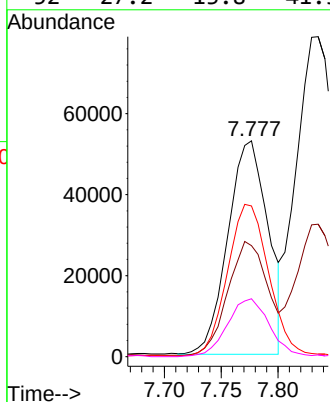
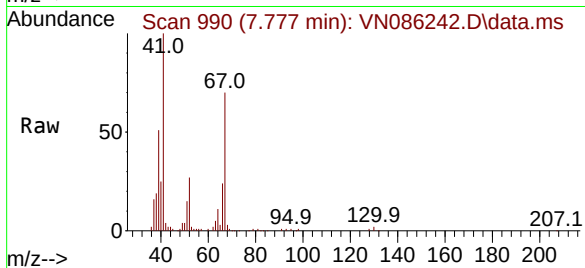
52 27.2 13.8 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#36

1,2-Dichloroethane

Concen: 97.412 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN086242.D

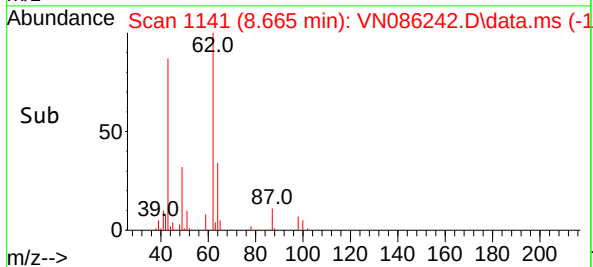
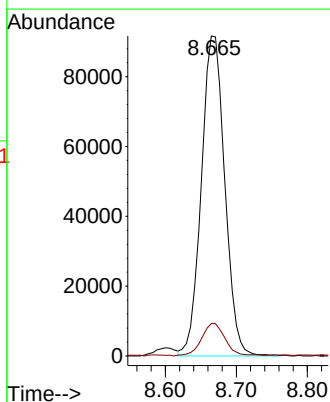
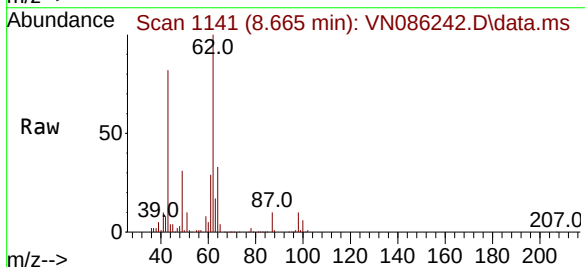
Acq: 11 Apr 2025 11:04

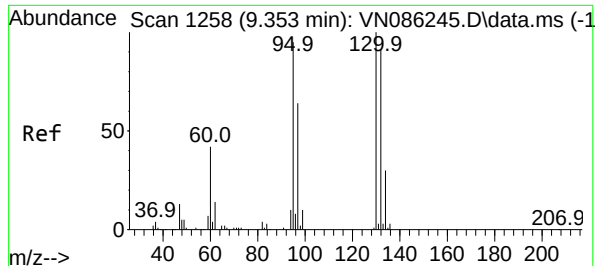
Tgt Ion: 62 Resp: 210783

Ion Ratio Lower Upper

62 100

98 10.1 8.6 12.8





#37

Trichloroethene

Concen: 97.775 ug/l

RT: 9.347 min Scan# 1257

Delta R.T. -0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:130 Resp: 163120

Ion Ratio Lower Upper

130 100

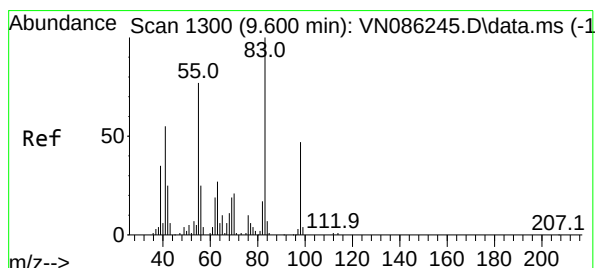
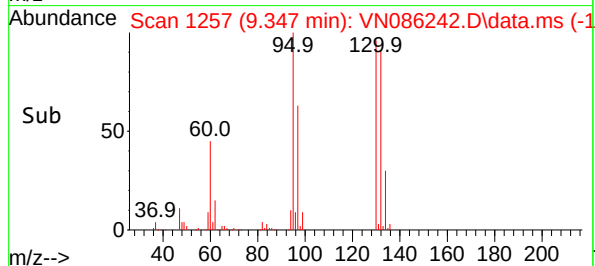
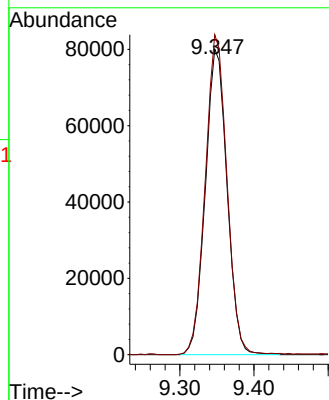
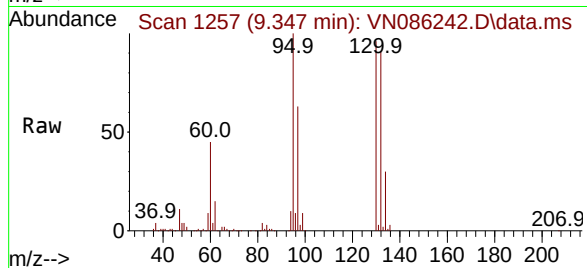
95 104.5 76.4 114.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#38

Methylcyclohexane

Concen: 99.571 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

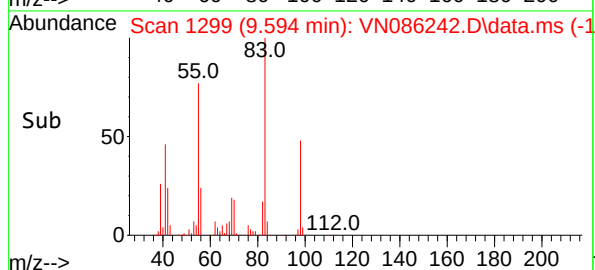
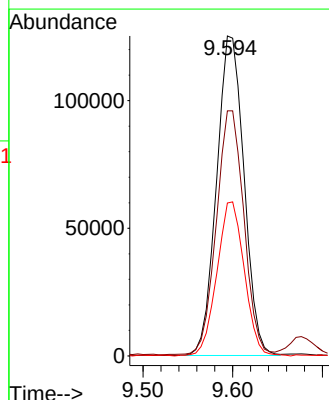
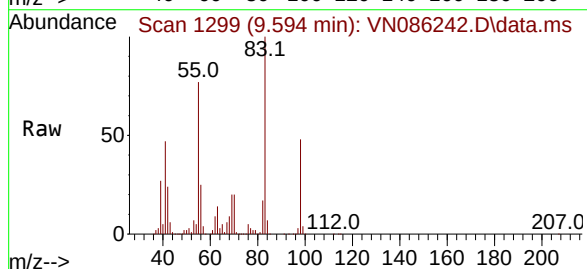
Tgt Ion: 83 Resp: 265418

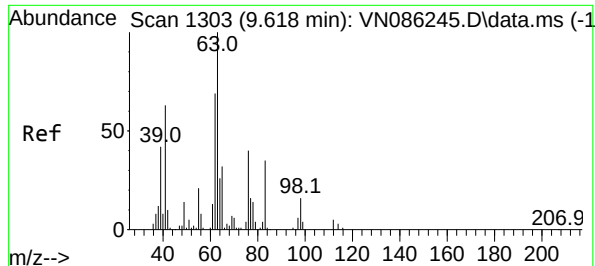
Ion Ratio Lower Upper

83 100

55 76.8 38.5 115.5

98 48.3 24.4 73.2





#39

1,2-Dichloropropane

Concen: 98.606 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 169660

Ion Ratio Lower Upper

63 100

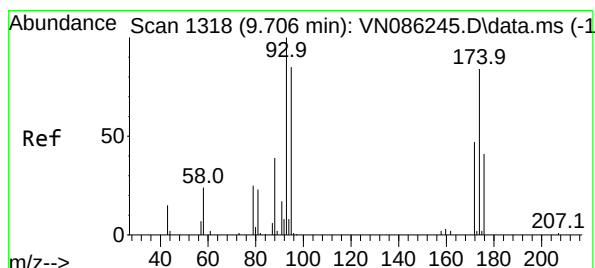
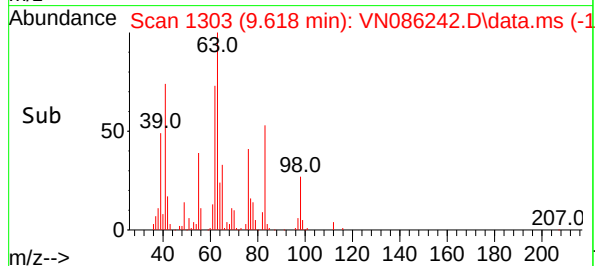
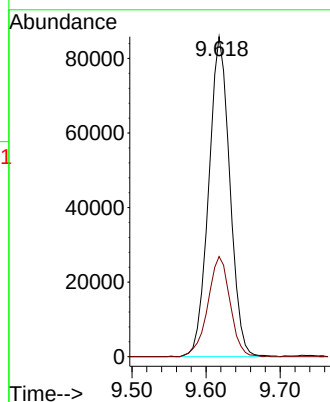
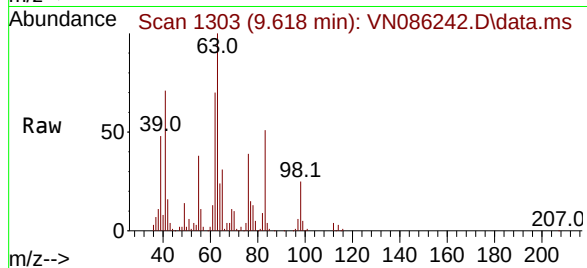
65 31.3 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 94.904 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

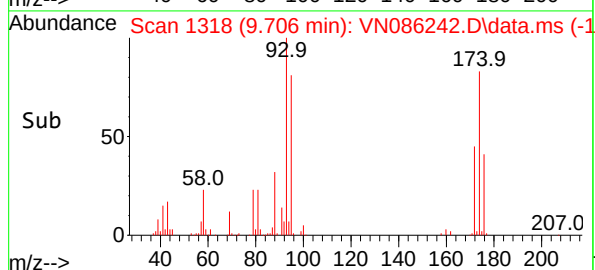
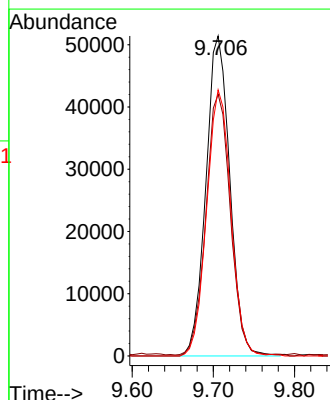
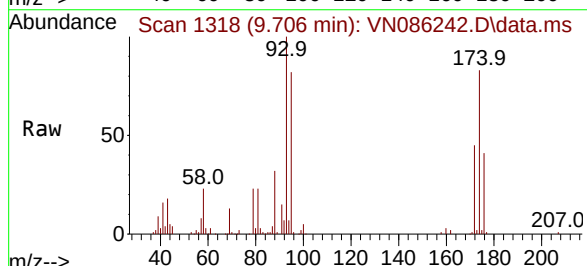
Tgt Ion: 93 Resp: 105464

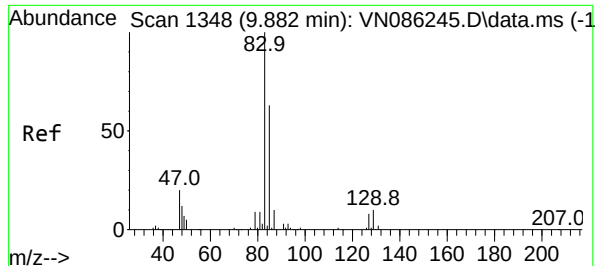
Ion Ratio Lower Upper

93 100

95 83.1 0.0 169.0

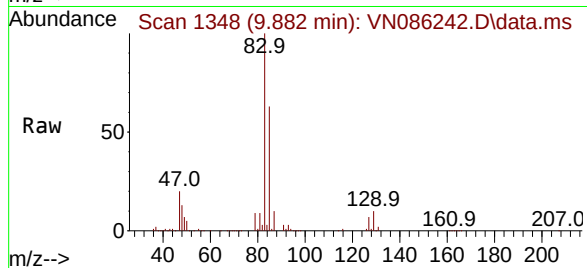
174 83.9 0.0 168.0





#41
Bromodichloromethane
Concen: 94.332 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

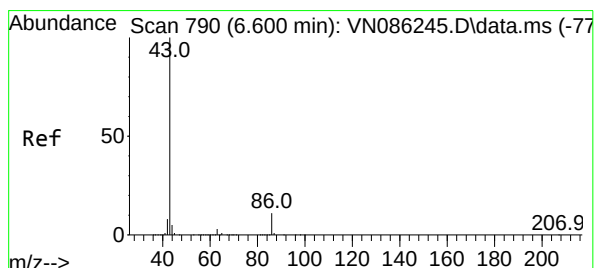
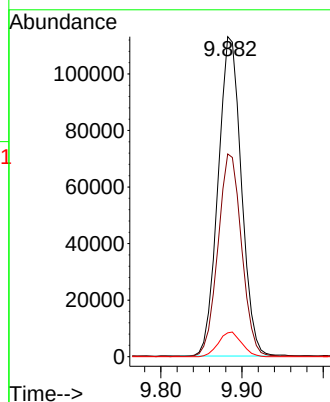
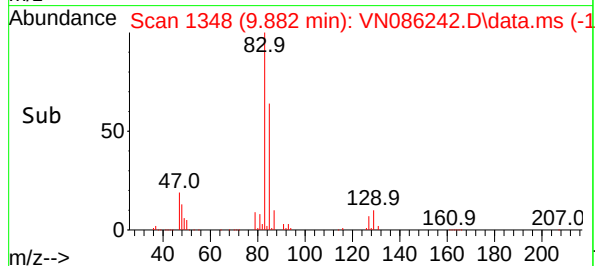
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 83 Resp: 225200
Ion Ratio Lower Upper
83 100
85 63.3 50.2 75.2
127 7.5 6.2 9.4

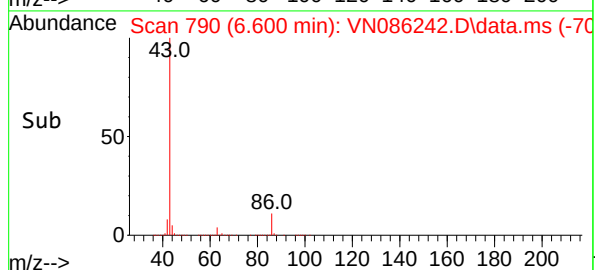
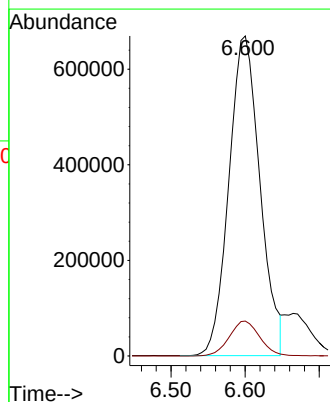
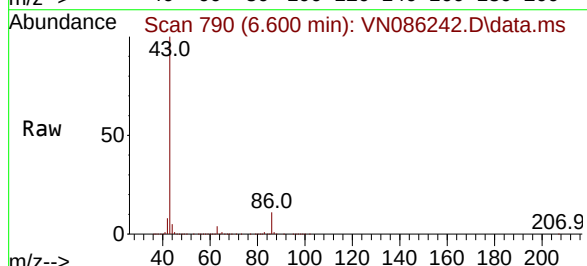
Manual Integrations
APPROVED

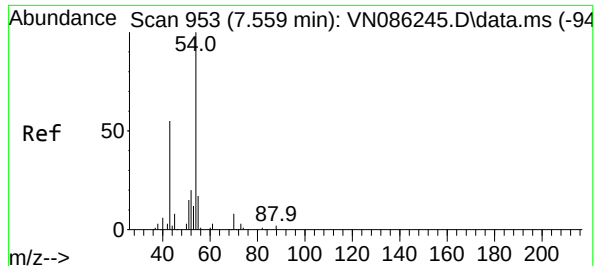
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 475.901 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

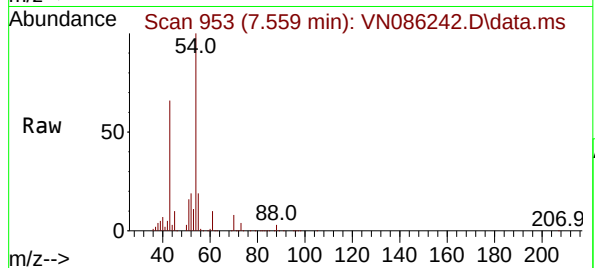
Tgt Ion: 43 Resp: 1951001
Ion Ratio Lower Upper
43 100
86 10.7 8.4 12.6





#43
Ethyl Acetate
Concen: 91.520 ug/l
RT: 7.559 min Scan# 911
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

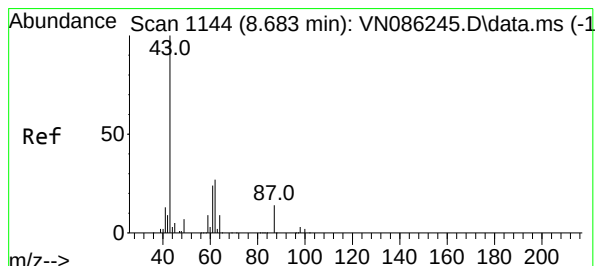
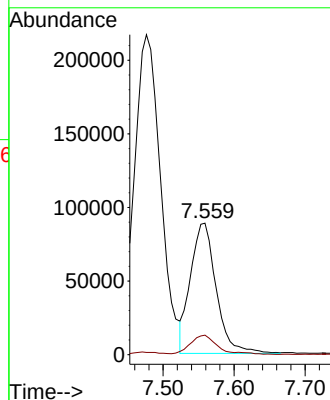
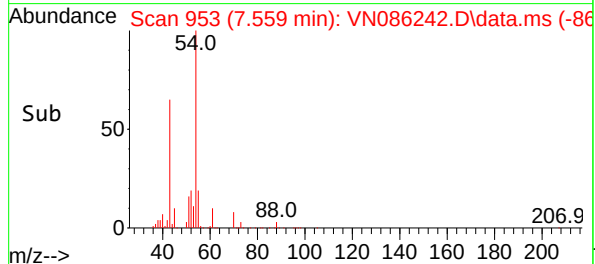
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 222324
Ion Ratio Lower Upper
43 100
45 13.5 11.2 16.8

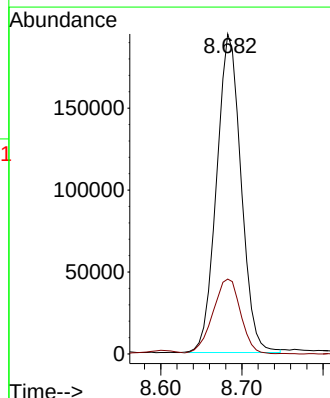
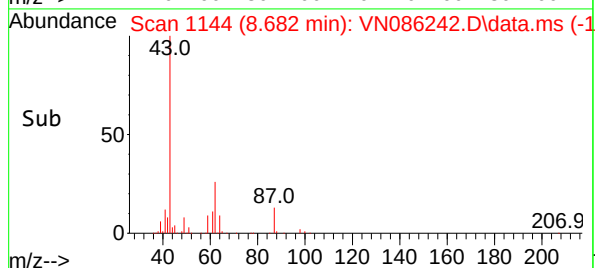
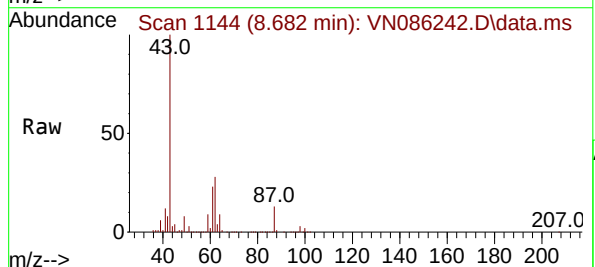
Manual Integrations
APPROVED

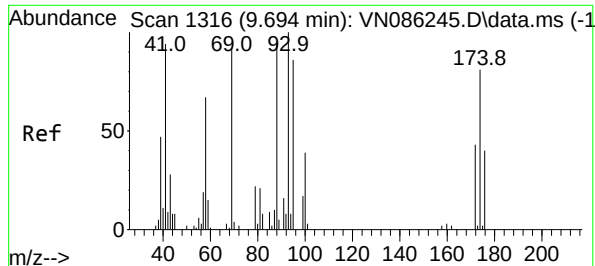
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#44
Isopropyl Acetate
Concen: 90.431 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 43 Resp: 407532
Ion Ratio Lower Upper
43 100
61 26.7 20.5 30.7





#45

1,4-Dioxane

Concen: 1836.730 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 88 Resp: 65820

Ion Ratio Lower Upper

88 100

43 34.0 14.4 21.6

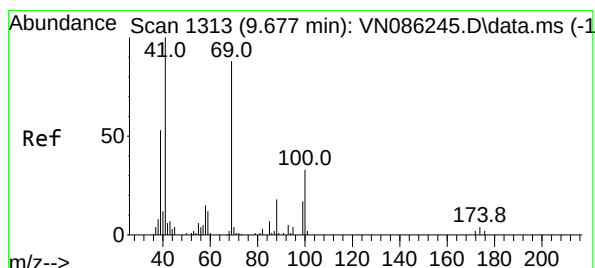
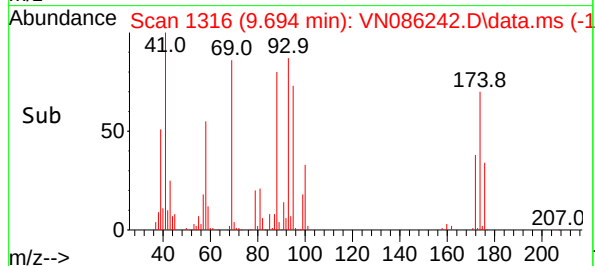
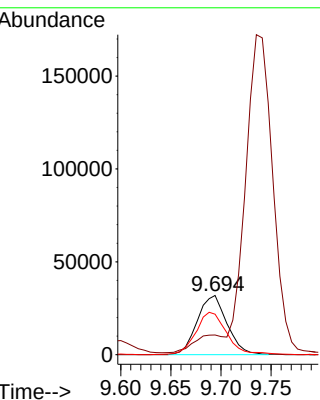
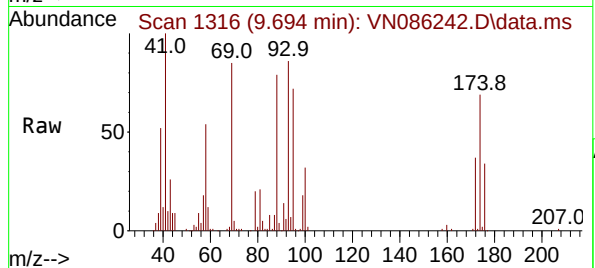
58 73.3 59.8 89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#46

Methyl methacrylate

Concen: 95.302 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

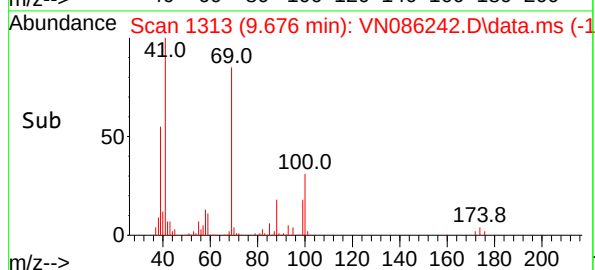
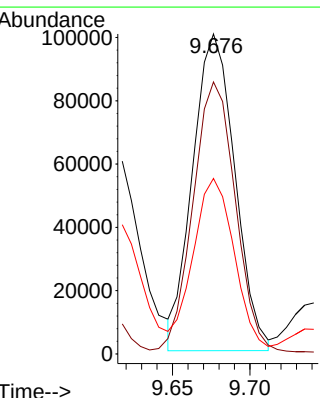
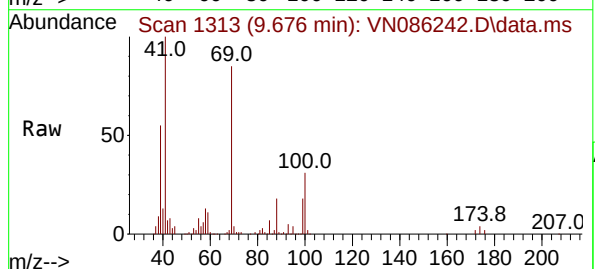
Tgt Ion: 41 Resp: 189237

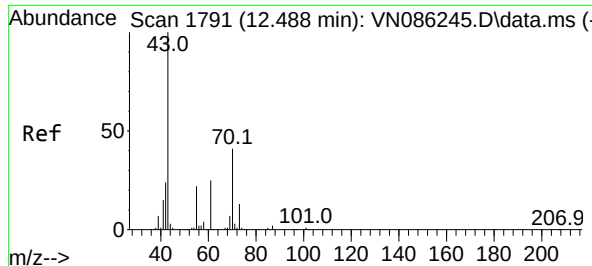
Ion Ratio Lower Upper

41 100

69 86.0 43.2 129.6

39 54.9 26.4 79.0





#47

n-amy1 Acetate

Concen: 92.953 ug/l

RT: 12.488 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086242.D

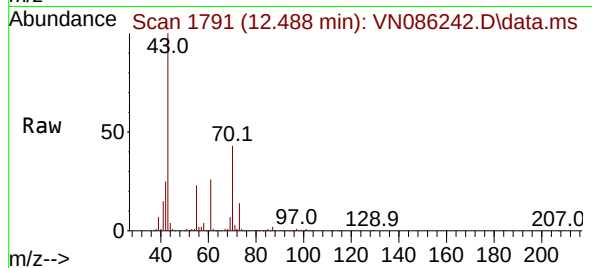
Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100



Tgt Ion: 43 Resp: 33846

Ion Ratio Lower Upper

43 100

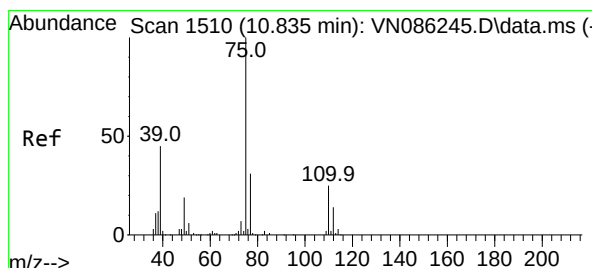
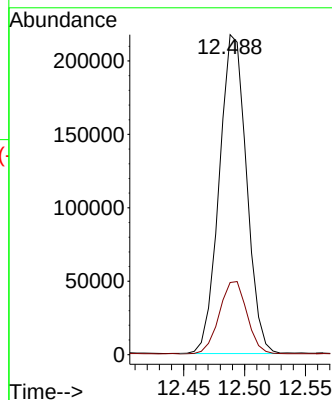
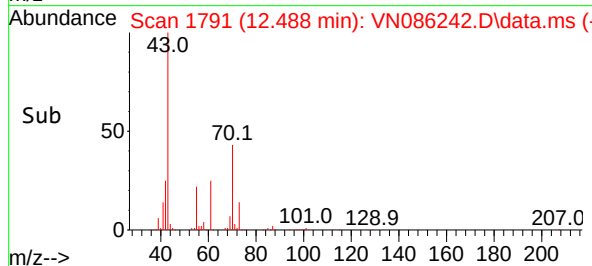
55 23.1 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#48

t-1,3-Dichloropropene

Concen: 97.471 ug/l

RT: 10.829 min Scan# 1509

Delta R.T. -0.006 min

Lab File: VN086242.D

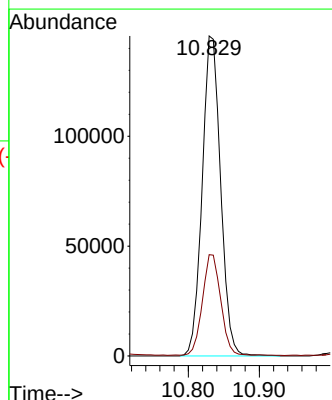
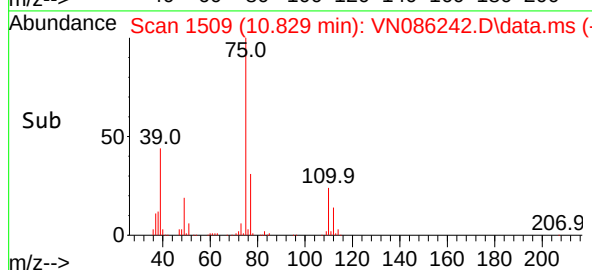
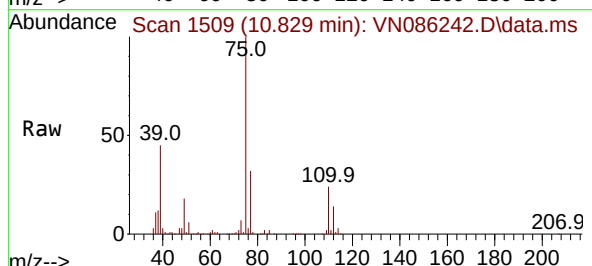
Acq: 11 Apr 2025 11:04

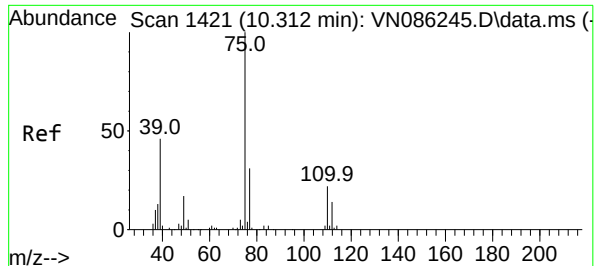
Tgt Ion: 75 Resp: 263069

Ion Ratio Lower Upper

75 100

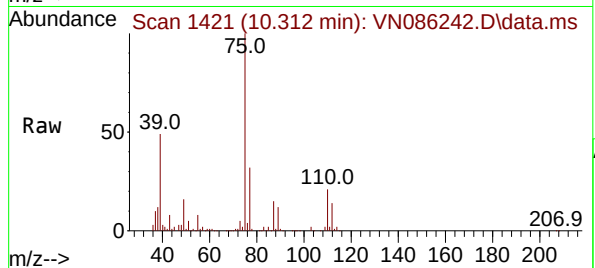
77 31.4 25.1 37.7





#49
cis-1,3-Dichloropropene
Concen: 98.600 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

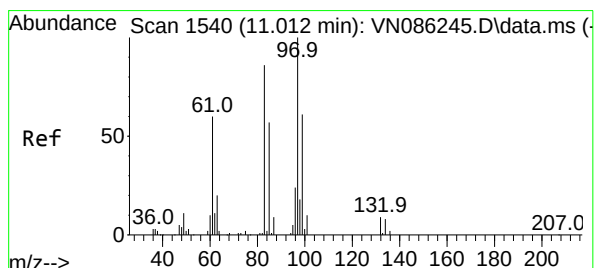
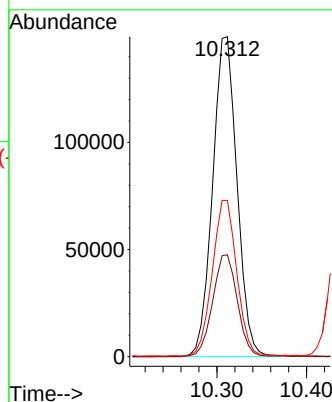
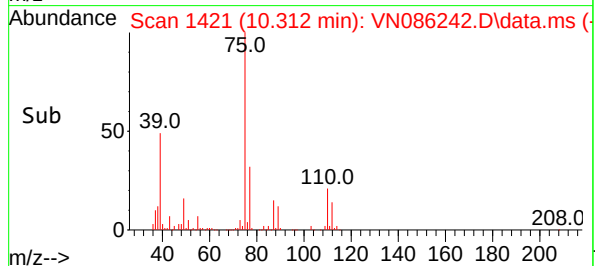
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 281650
Ion Ratio Lower Upper
75 100
77 31.7 25.0 37.4
39 48.6 36.7 55.1

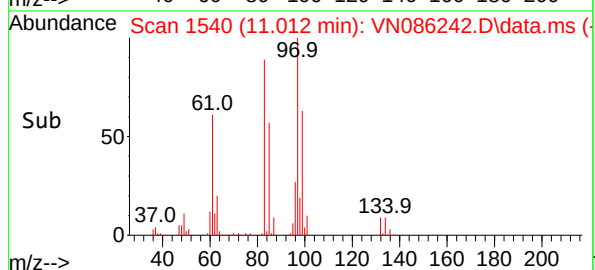
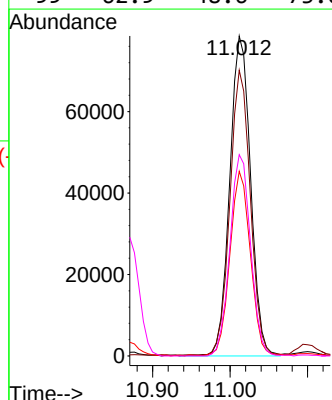
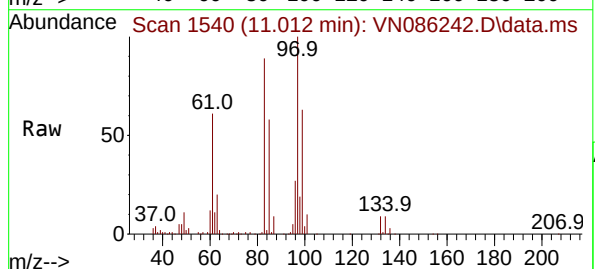
Manual Integrations
APPROVED

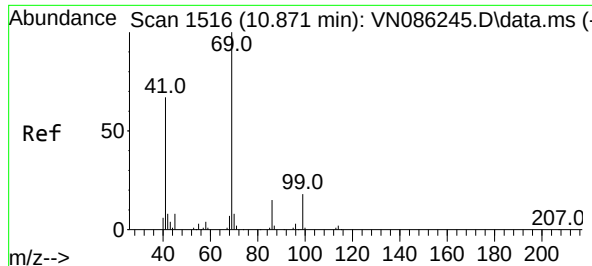
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#50
1,1,2-Trichloroethane
Concen: 94.534 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

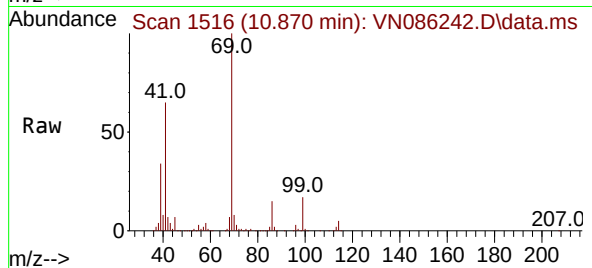
Tgt Ion: 97 Resp: 147343
Ion Ratio Lower Upper
97 100
83 89.0 68.6 103.0
85 57.5 45.9 68.9
99 62.9 48.6 73.0





#51
Ethyl methacrylate
Concen: 95.629 ug/l
RT: 10.870 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

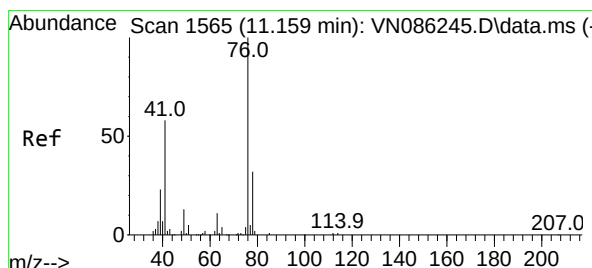
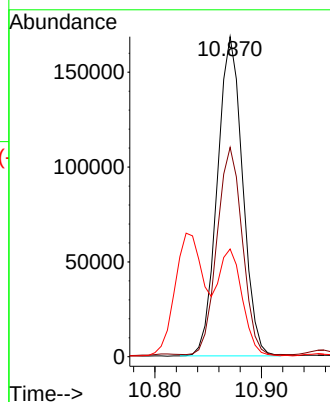
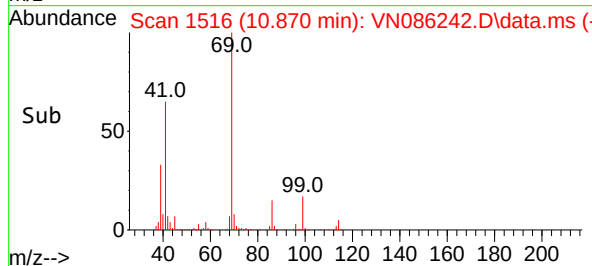
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 69 Resp: 276983
Ion Ratio Lower Upper
69 100
41 64.9 33.6 100.6
39 33.4 17.8 53.4

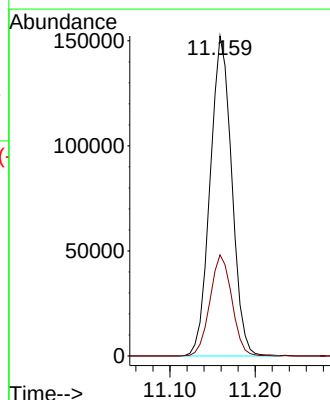
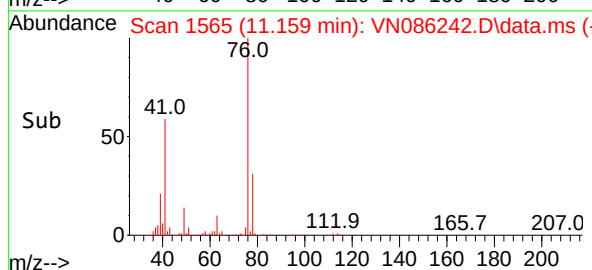
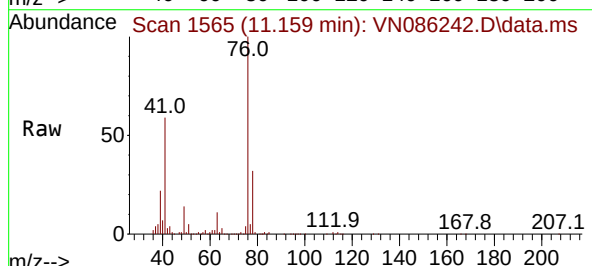
Manual Integrations
APPROVED

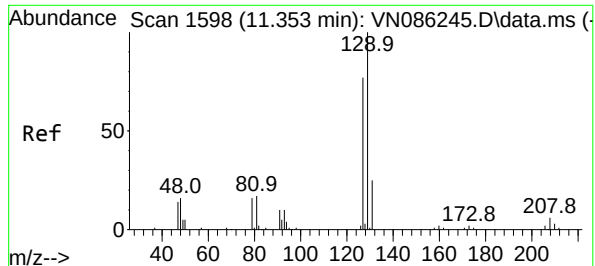
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 96.673 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

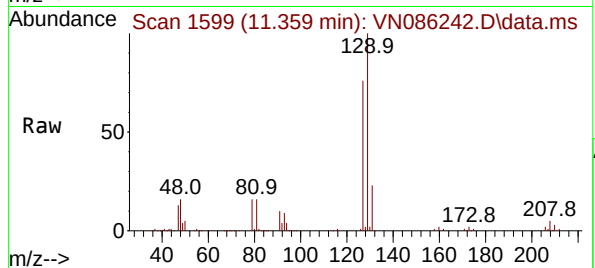
Tgt Ion: 76 Resp: 268559
Ion Ratio Lower Upper
76 100
78 31.9 0.0 64.6





#53
Dibromochloromethane
Concen: 96.562 ug/l
RT: 11.359 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

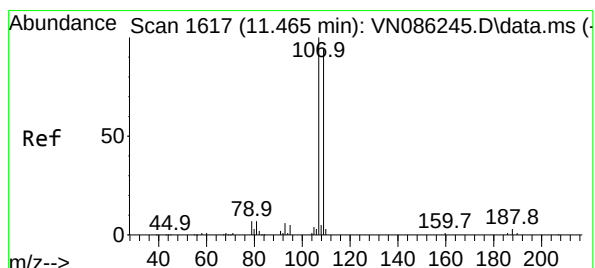
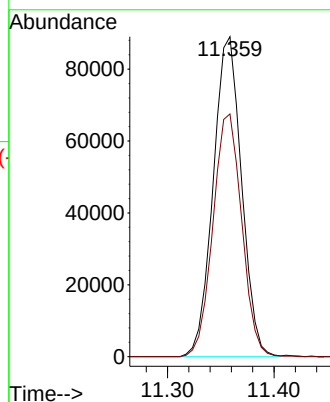
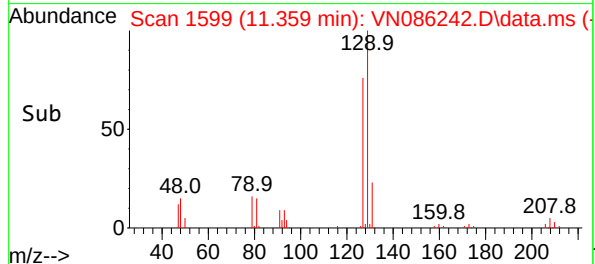
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:129 Resp: 164620
Ion Ratio Lower Upper
129 100
127 76.8 38.5 115.5

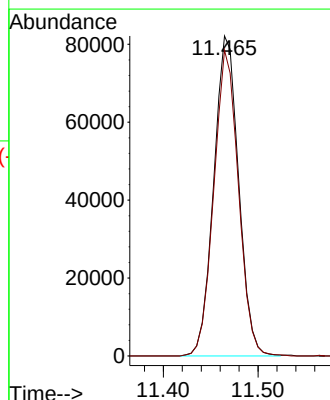
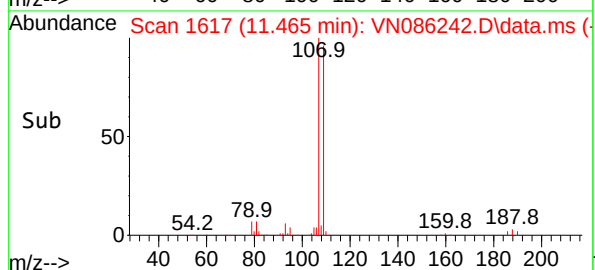
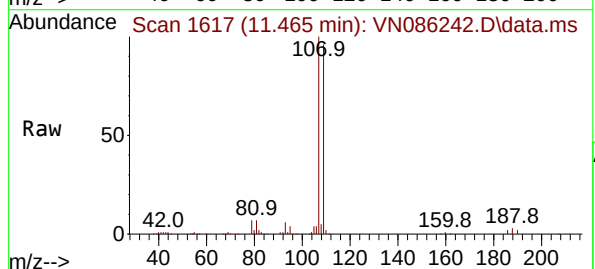
Manual Integrations
APPROVED

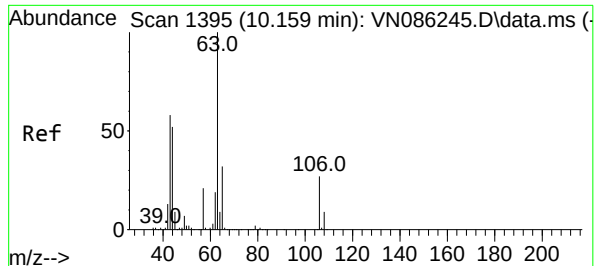
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#54
1,2-Dibromoethane
Concen: 95.239 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

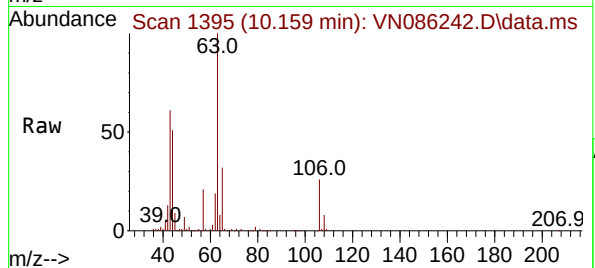
Tgt Ion:107 Resp: 149844
Ion Ratio Lower Upper
107 100
109 94.5 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 99.826 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

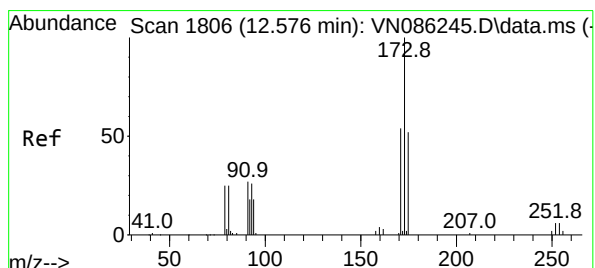
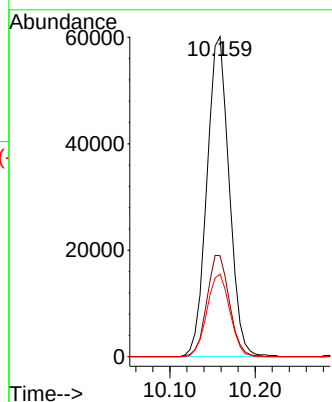
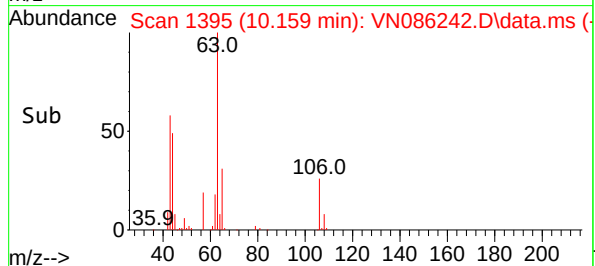
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 63 Resp: 10925
Ion Ratio Lower Upper
63 100
65 32.1 25.8 38.8
106 26.4 21.8 32.8

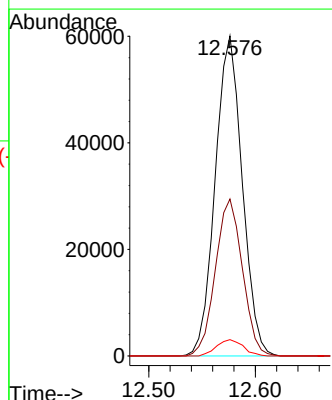
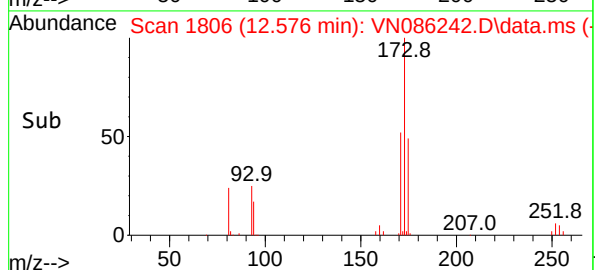
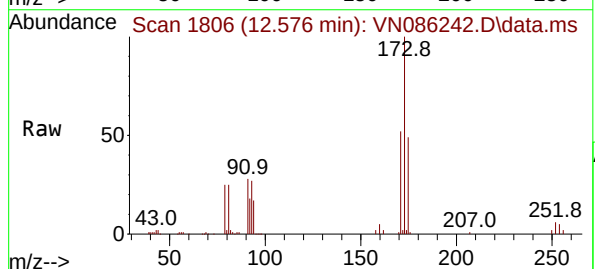
Manual Integrations
APPROVED

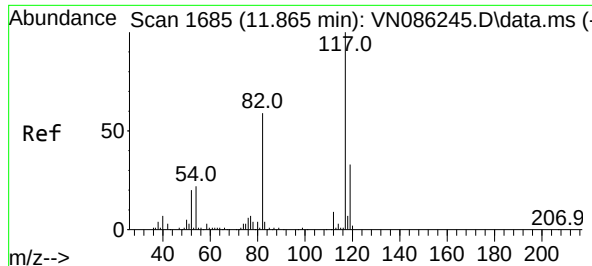
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#56
Bromoform
Concen: 94.994 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

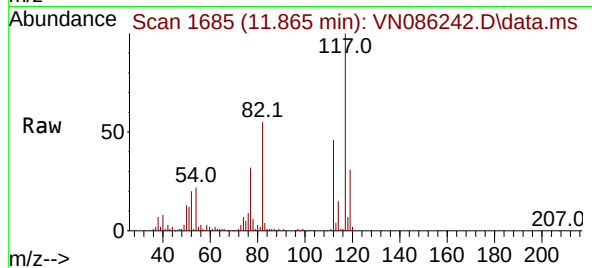
Tgt Ion:173 Resp: 105955
Ion Ratio Lower Upper
173 100
175 48.9 38.2 57.4
254 5.0 4.5 6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

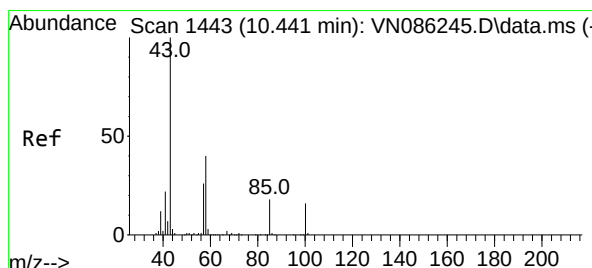
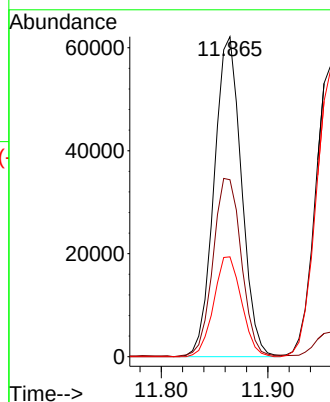
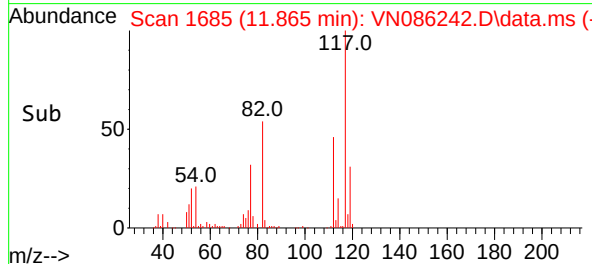
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 117 Resp: 110874
Ion Ratio Lower Upper
117 100
82 58.0 47.3 70.9
119 31.7 25.9 38.9

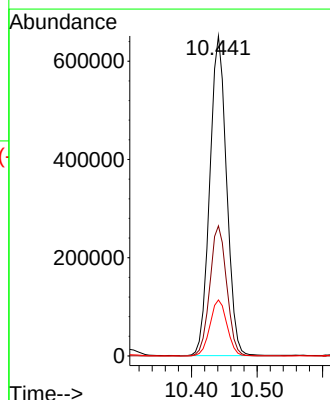
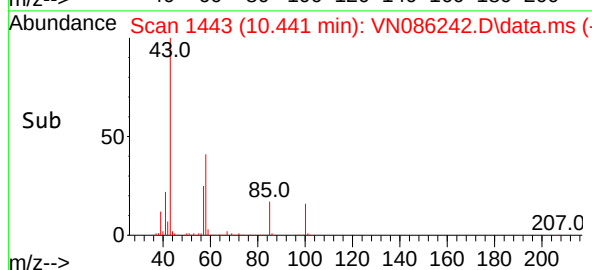
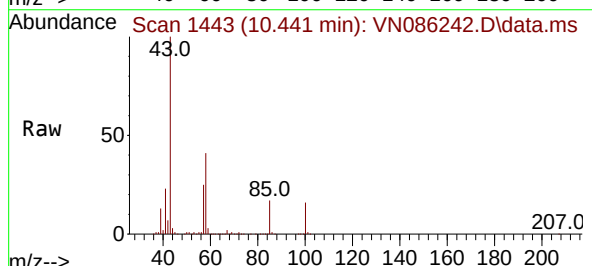
Manual Integrations
APPROVED

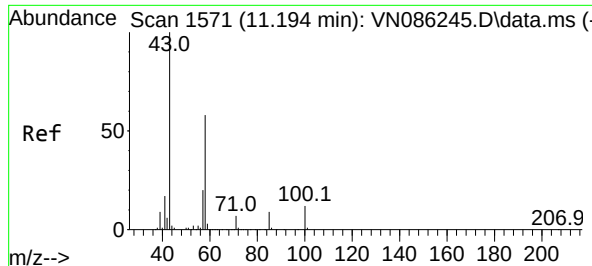
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#58
4-Methyl-2-Pentanone
Concen: 460.173 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

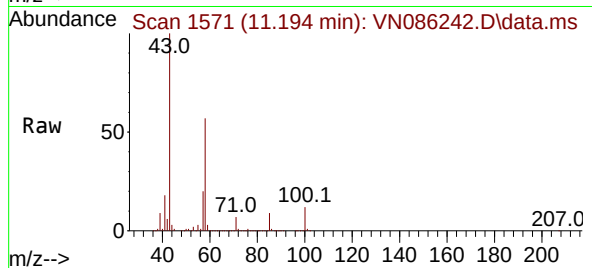
Tgt Ion: 43 Resp: 1157830
Ion Ratio Lower Upper
43 100
58 40.9 32.5 48.7
85 17.7 14.4 21.6





#59
2-Hexanone
Concen: 458.017 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

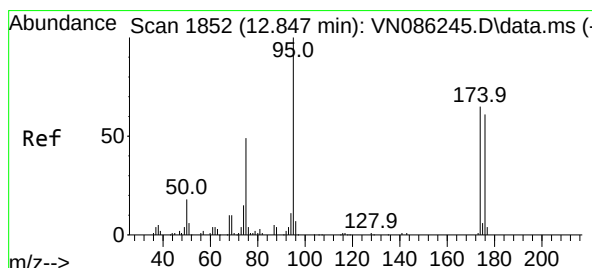
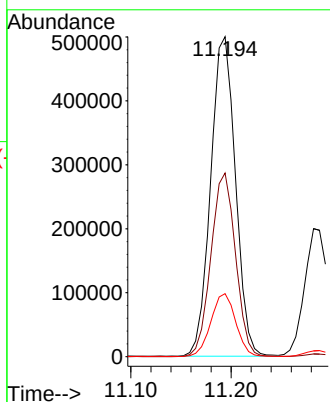
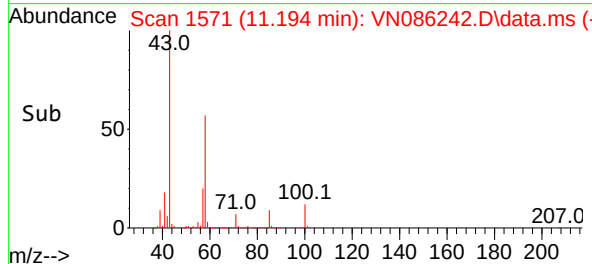
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 85811
Ion Ratio Lower Upper
43 100
58 57.0 45.3 67.9
57 19.7 15.8 23.6

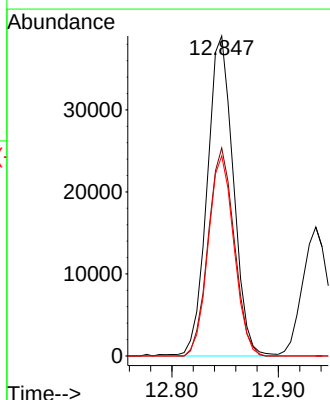
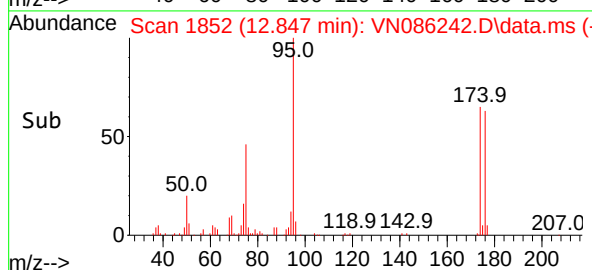
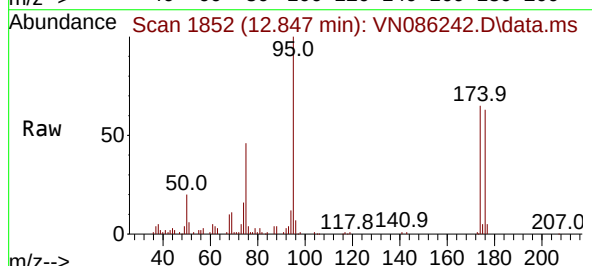
Manual Integrations
APPROVED

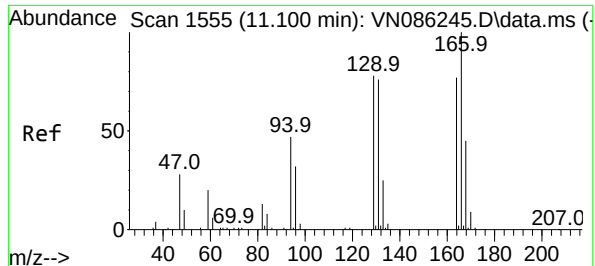
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#60
4-Bromofluorobenzene
Concen: 30.135 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

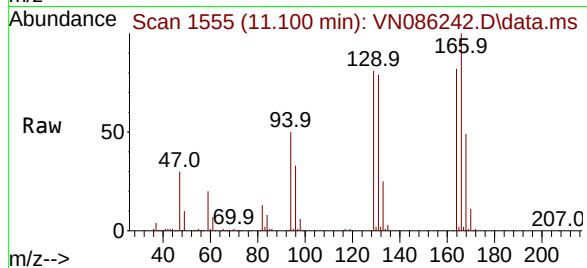
Tgt Ion: 95 Resp: 66521
Ion Ratio Lower Upper
95 100
174 64.5 52.7 79.1
176 61.5 49.8 74.8





#61
Tetrachloroethene
Concen: 97.556 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

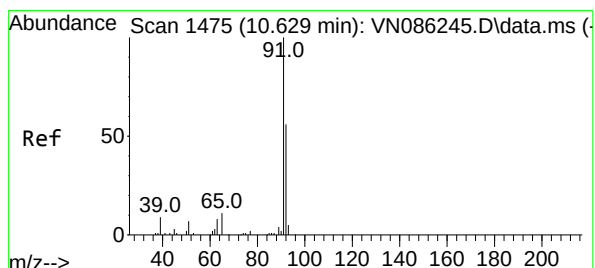
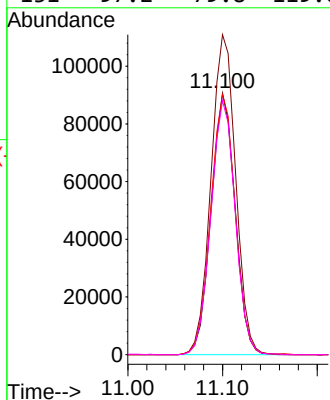
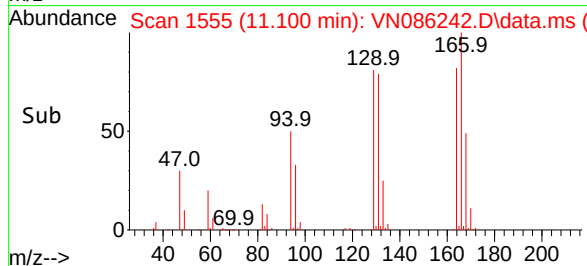
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:164 Resp: 159732
Ion Ratio Lower Upper
164 100
166 122.4 104.5 156.7
129 99.7 81.7 122.5
131 97.2 79.8 119.6

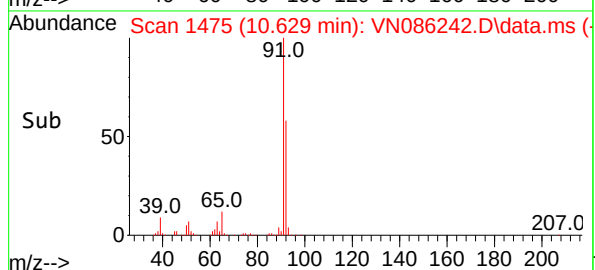
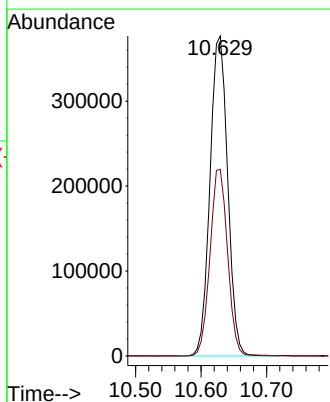
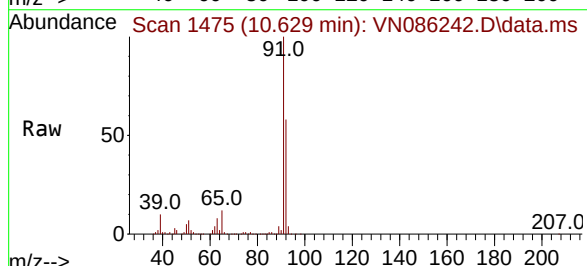
Manual Integrations
APPROVED

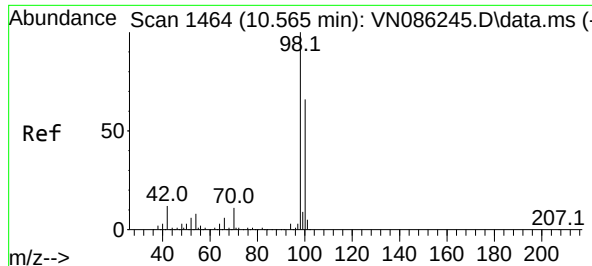
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 94.810 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

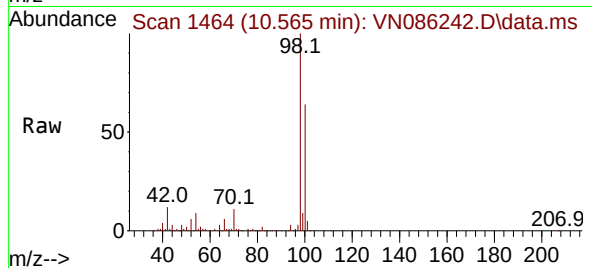
Tgt Ion: 91 Resp: 705070
Ion Ratio Lower Upper
91 100
92 57.9 46.8 70.2





#63
Toluene-d8
Concen: 29.627 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

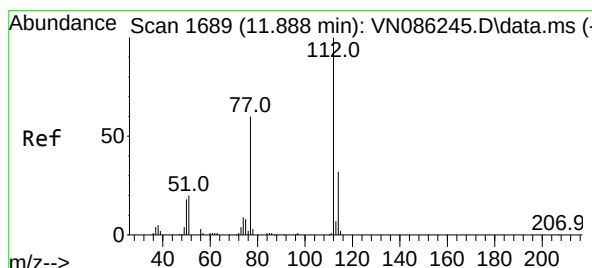
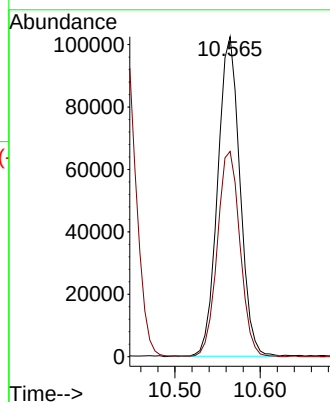
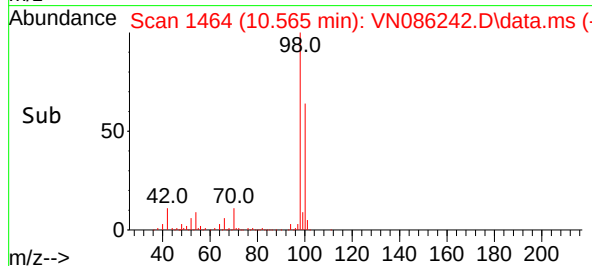
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 98 Resp: 185448
Ion Ratio Lower Upper
98 100
100 65.6 52.3 78.5

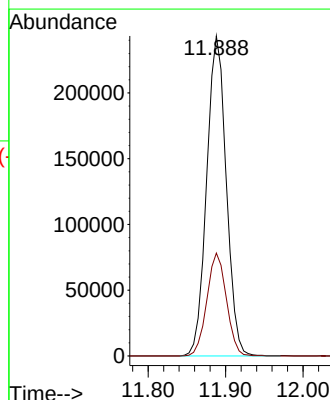
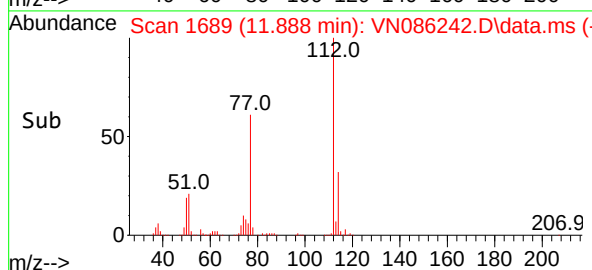
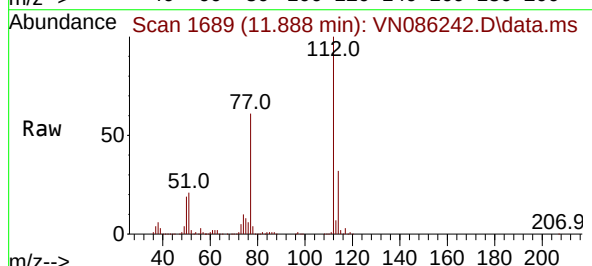
Manual Integrations
APPROVED

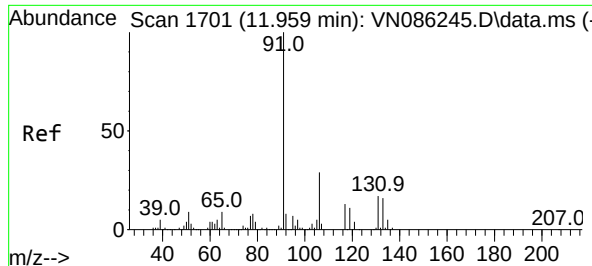
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 94.040 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

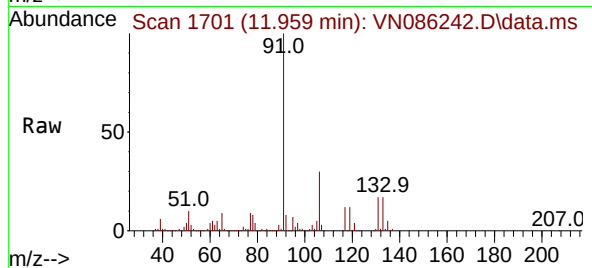
Tgt Ion:112 Resp: 427265
Ion Ratio Lower Upper
112 100
114 32.2 25.8 38.6





#65
1,1,1,2-Tetrachloroethane
Concen: 94.745 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

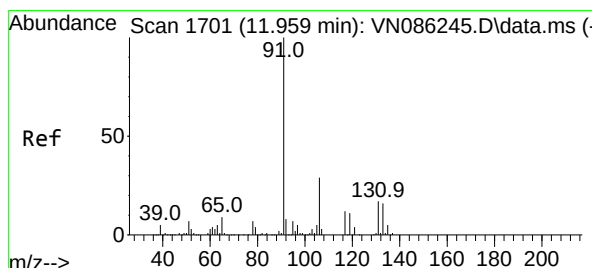
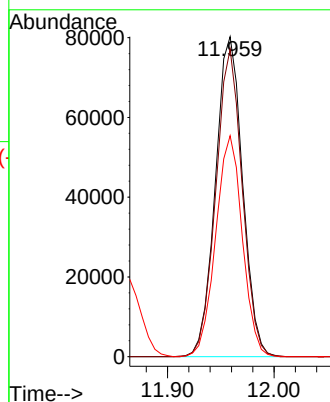
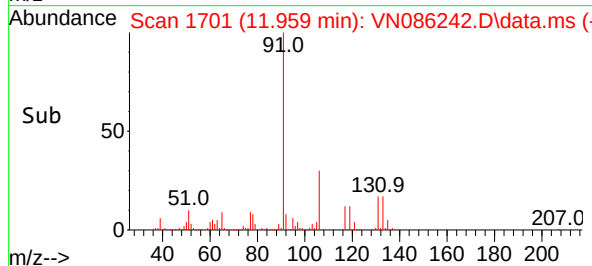
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:131 Resp: 142064
Ion Ratio Lower Upper
131 100
133 93.5 0.0 190.4
119 67.7 0.0 135.6

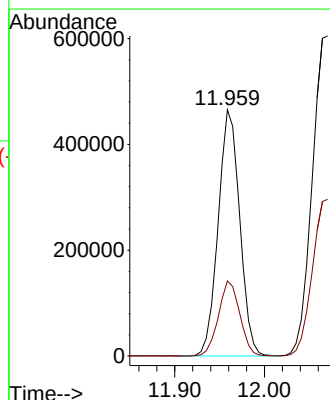
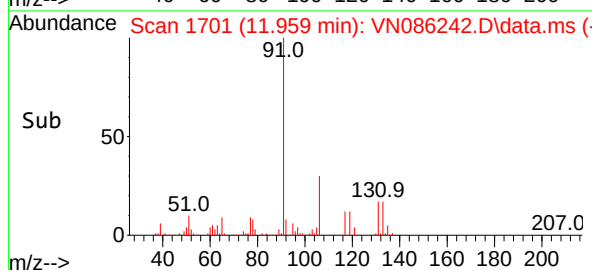
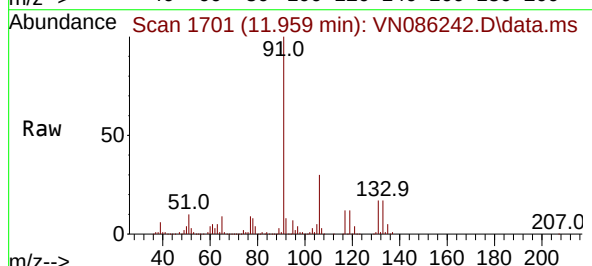
Manual Integrations
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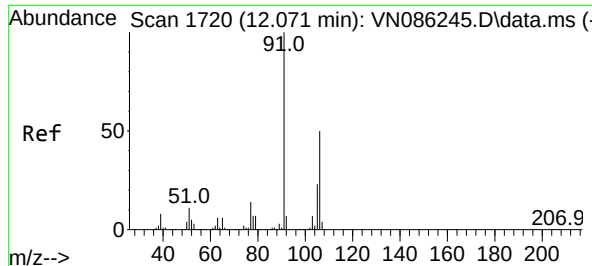
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#66
Ethyl Benzene
Concen: 94.050 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 91 Resp: 775657
Ion Ratio Lower Upper
91 100
106 30.5 23.4 35.0





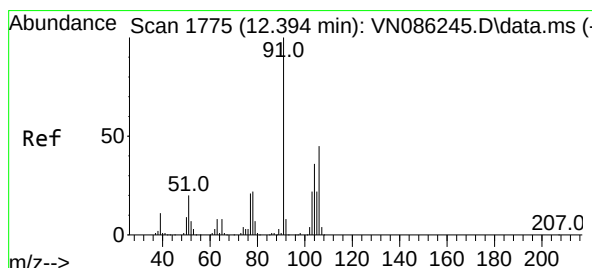
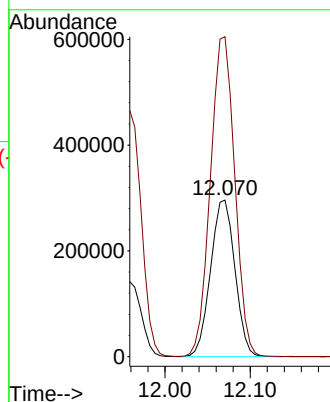
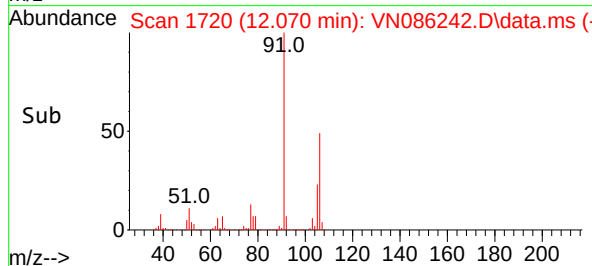
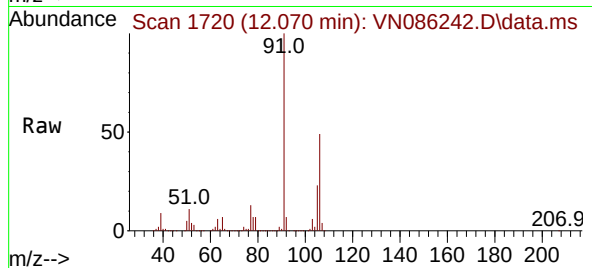
#67
m/p-Xylenes
Concen: 191.616 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 587623
Ion Ratio Lower Upper
106 100
91 204.2 164.5 246.7

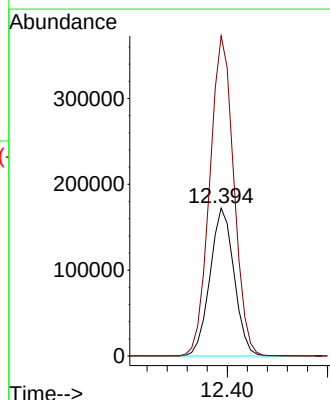
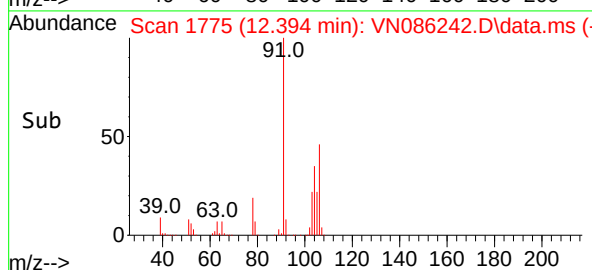
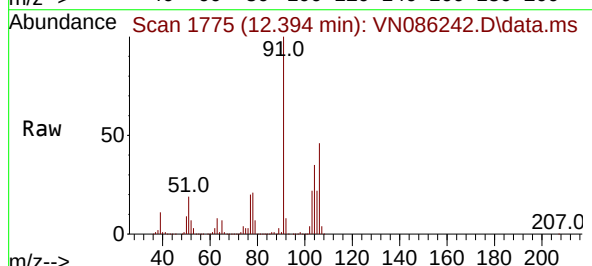
Manual Integrations
APPROVED

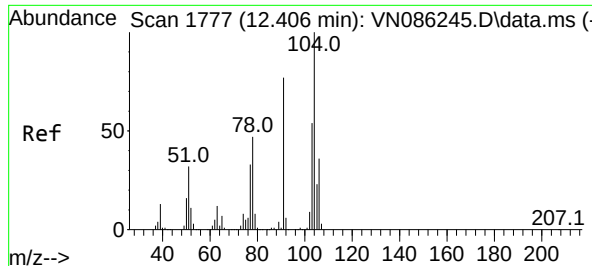
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
o-Xylene
Concen: 95.205 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:106 Resp: 287174
Ion Ratio Lower Upper
106 100
91 216.6 109.8 329.4





#69

Styrene

Concen: 95.537 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

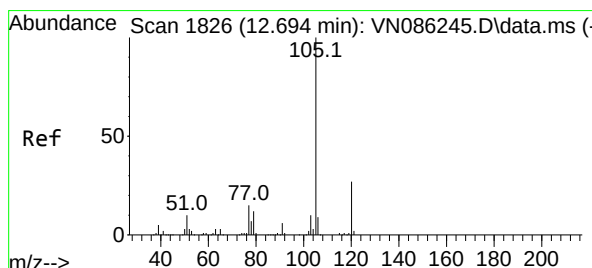
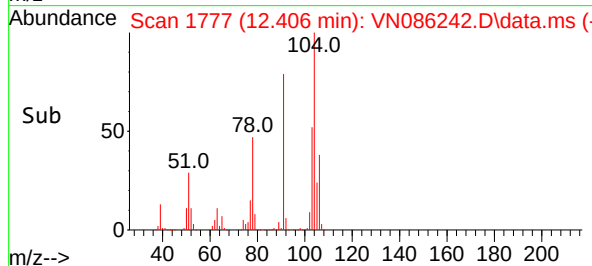
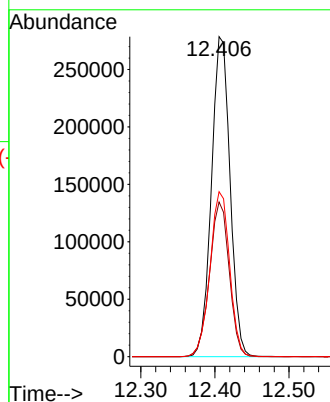
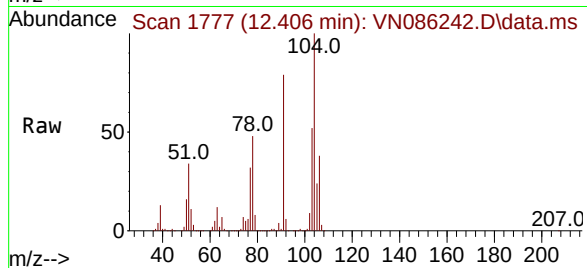
Tgt Ion	104	Resp	486004
Ion Ratio	Lower	Upper	
104	100		
78	50.9	41.4	62.0
103	54.3	44.2	66.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#70

Isopropylbenzene

Concen: 94.920 ug/l

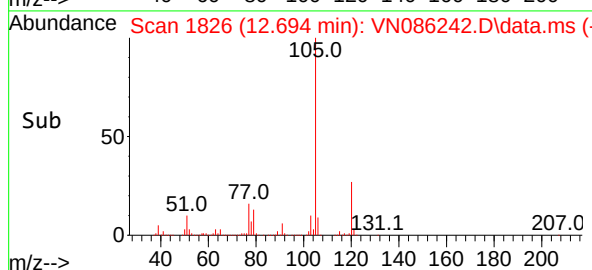
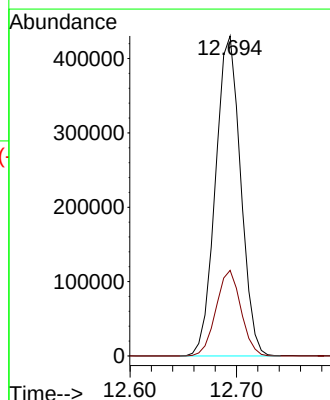
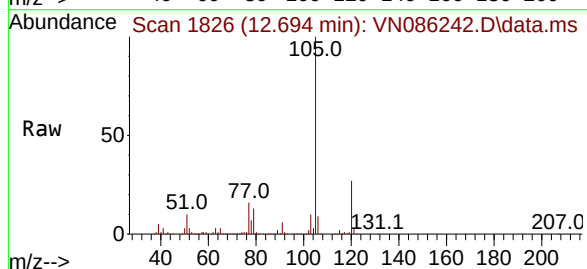
RT: 12.694 min Scan# 1826

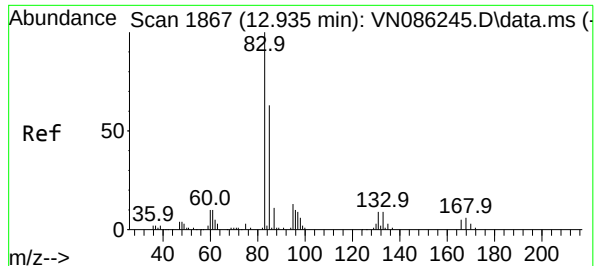
Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Tgt Ion	105	Resp	705950
Ion Ratio	Lower	Upper	
105	100		
120	26.4	18.3	34.1





#71

1,1,2,2-Tetrachloroethane

Concen: 87.222 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 18464

Ion Ratio Lower Upper

83 100

131 9.0 4.8 14.3

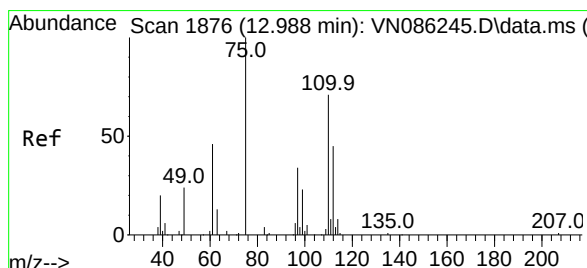
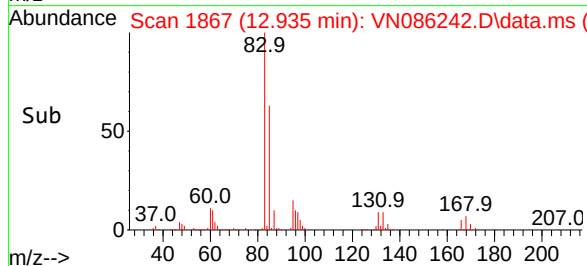
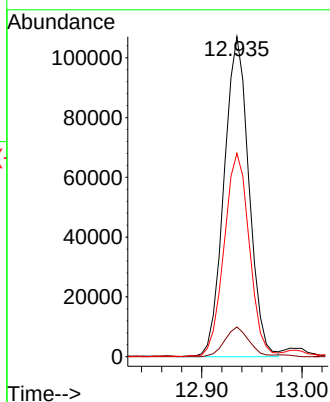
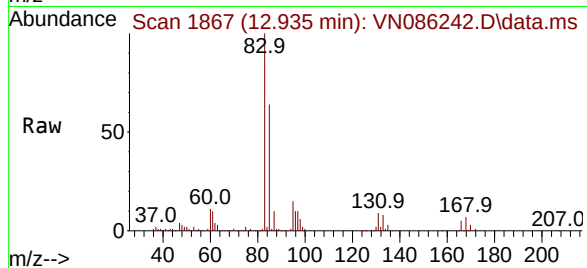
85 64.2 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#72

1,2,3-Trichloropropane

Concen: 67.831 ug/l m

RT: 12.988 min Scan# 1876

Delta R.T. -0.000 min

Lab File: VN086242.D

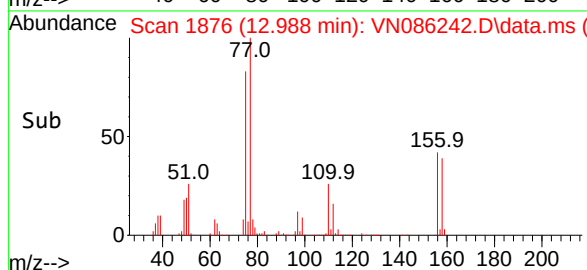
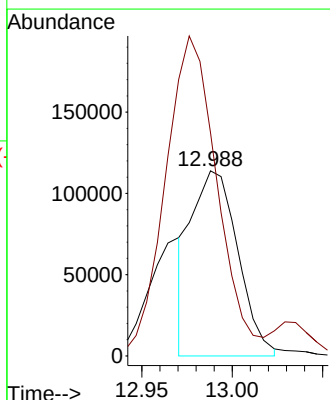
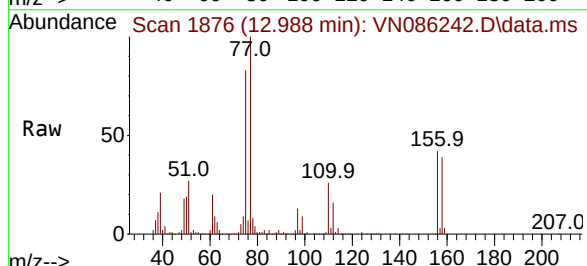
Acq: 11 Apr 2025 11:04

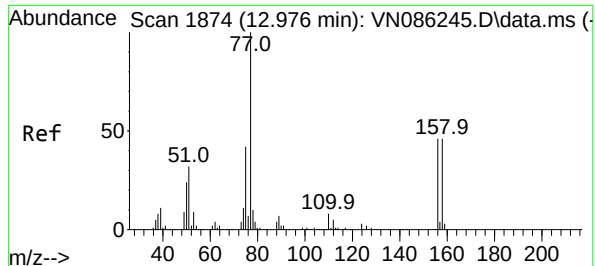
Tgt Ion: 75 Resp: 203289

Ion Ratio Lower Upper

75 100

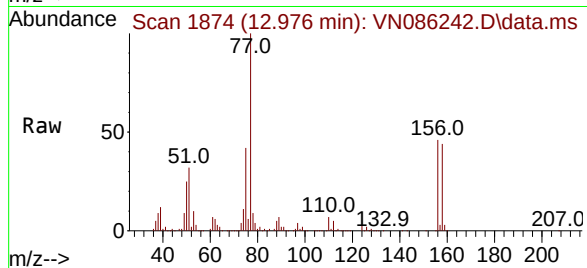
77 193.6 0.0 380.0





#73
Bromobenzene
Concen: 94.613 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

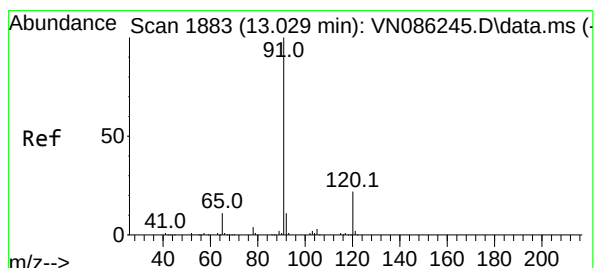
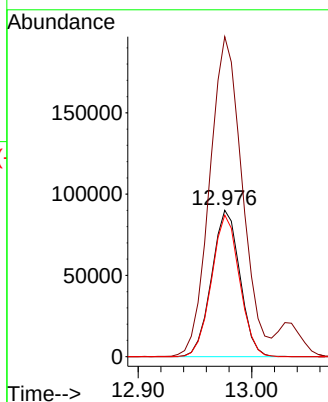
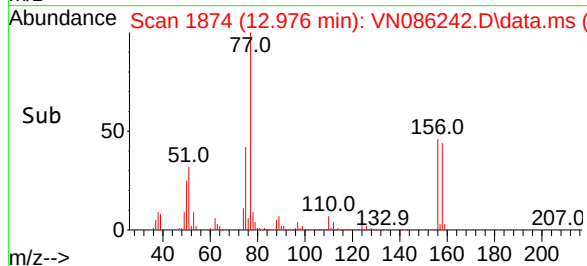
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:156 Resp: 155884
Ion Ratio Lower Upper
156 100
77 252.4 0.0 505.2
158 95.6 0.0 195.0

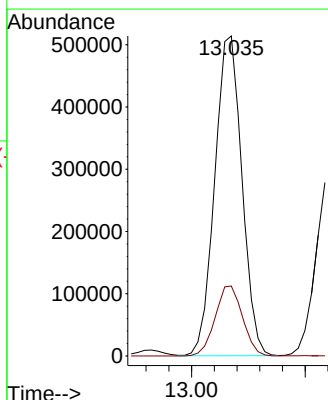
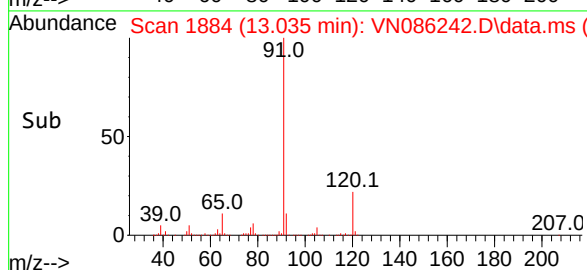
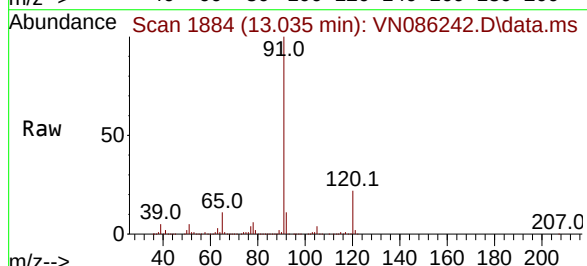
Manual Integrations
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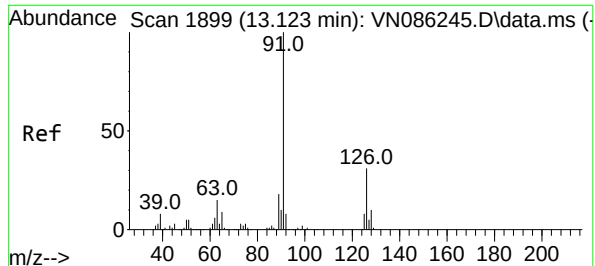
Reviewed By :John Carbone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#74
n-propylbenzene
Concen: 96.989 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion: 91 Resp: 854262
Ion Ratio Lower Upper
91 100
120 22.0 0.0 44.0





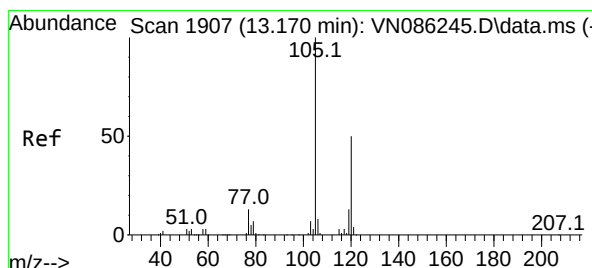
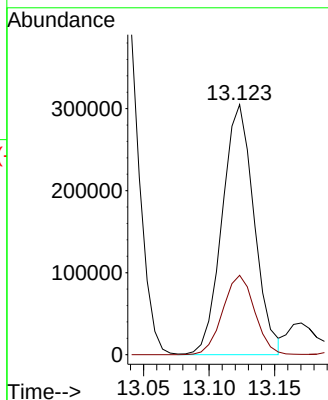
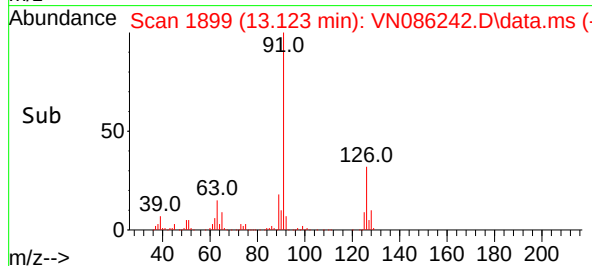
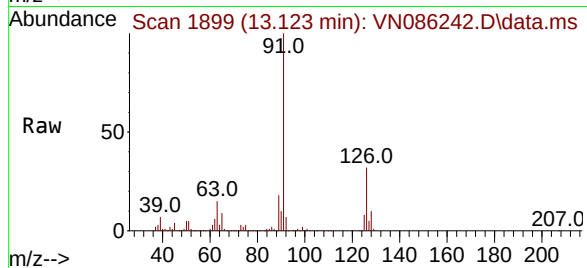
#75
2-Chlorotoluene
Concen: 93.916 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 518410
Ion Ratio Lower Upper
91 100
126 31.6 0.0 63.4

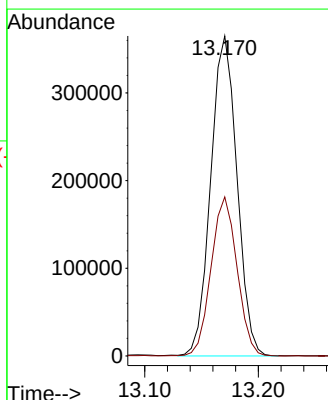
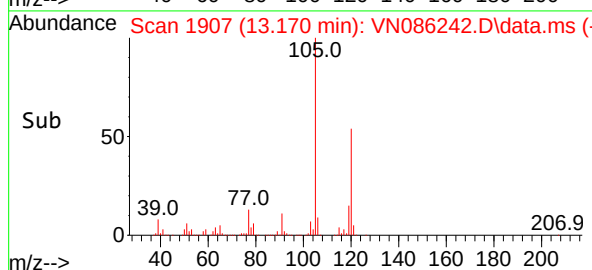
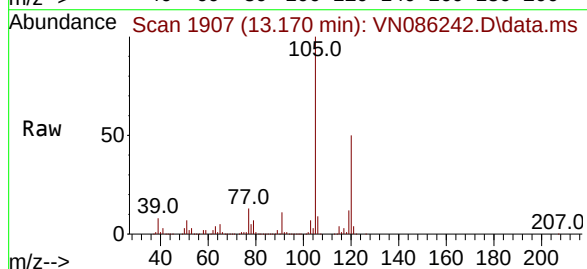
Manual Integrations
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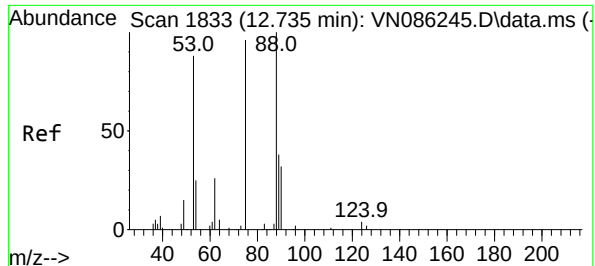
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 95.970 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:105 Resp: 586325
Ion Ratio Lower Upper
105 100
120 49.1 0.0 98.0





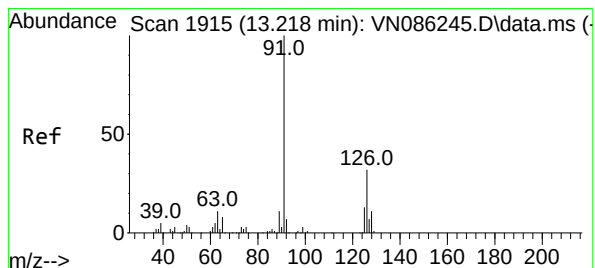
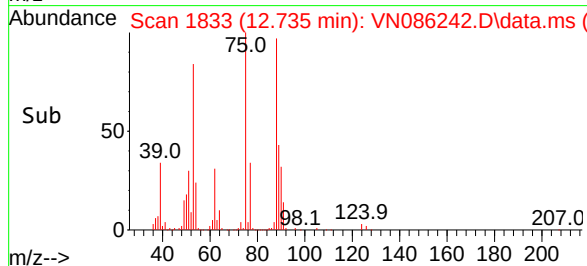
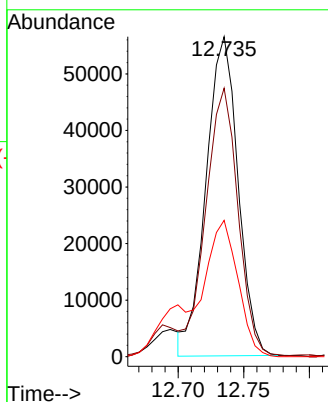
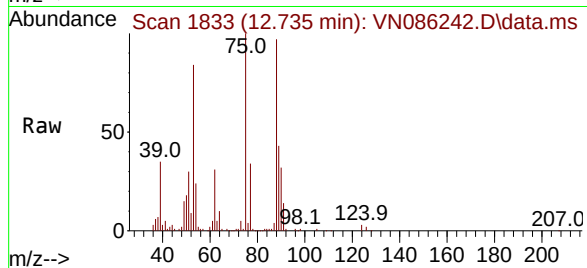
#77
t-1,4-Dichloro-2-butene
Concen: 94.184 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 95690
Ion Ratio Lower Upper
75 100
53 83.6 46.4 139.2
89 42.8 22.5 67.5

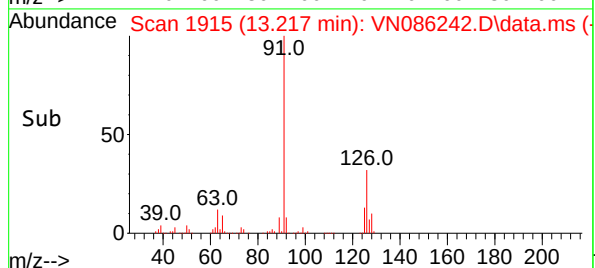
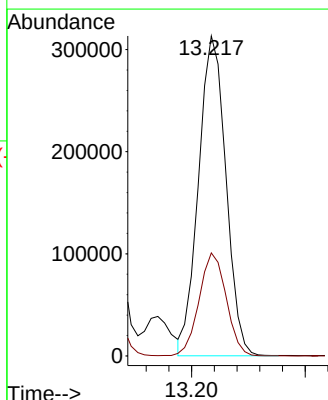
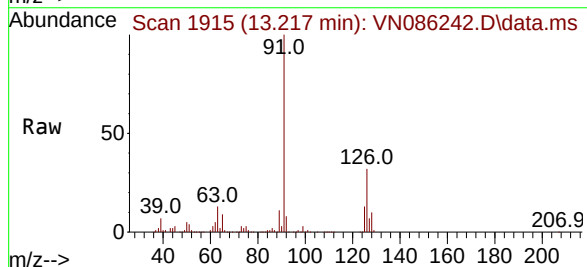
Manual Integrations
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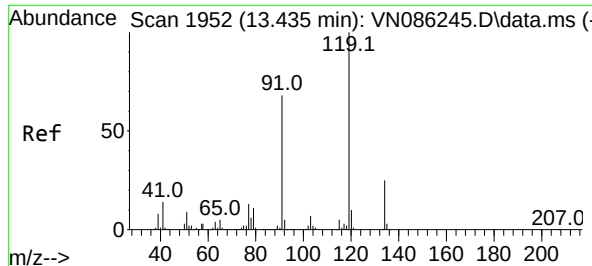
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#78
4-Chlorotoluene
Concen: 95.194 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

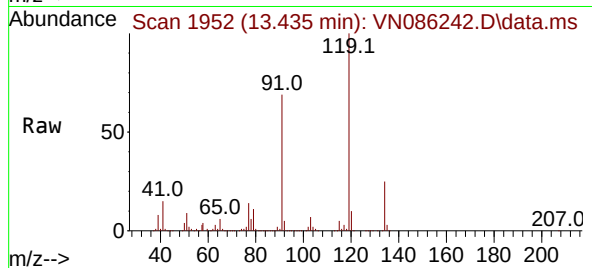
Tgt Ion: 91 Resp: 524792
Ion Ratio Lower Upper
91 100
126 32.0 0.0 63.2





#79
tert-butylbenzene
Concen: 93.090 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

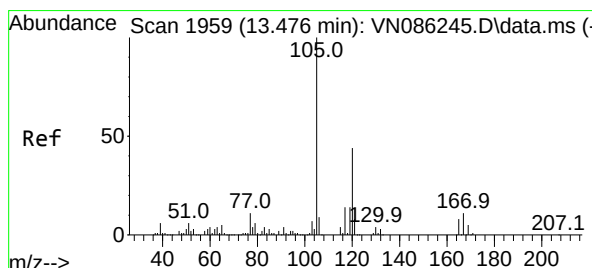
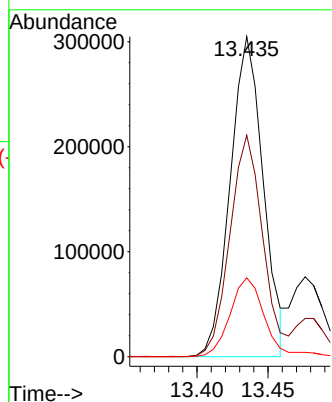
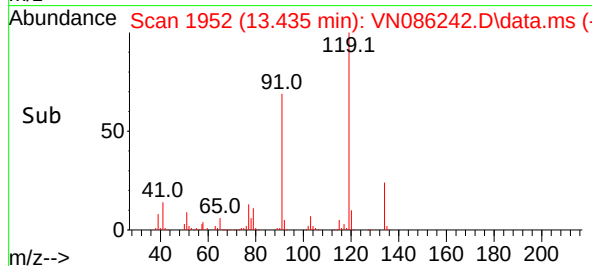
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



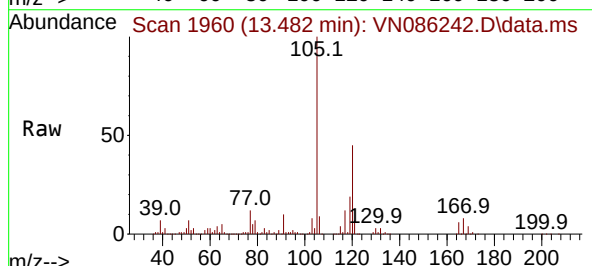
Tgt Ion:119 Resp: 492114
Ion Ratio Lower Upper
119 100
91 69.3 0.0 136.6
134 24.8 0.0 49.4

Manual Integrations
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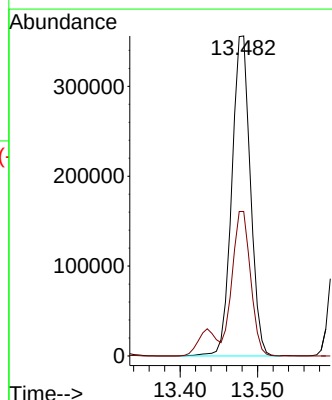
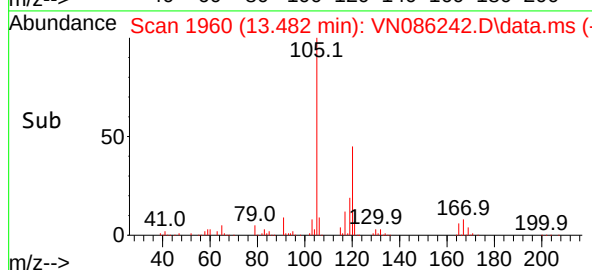
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

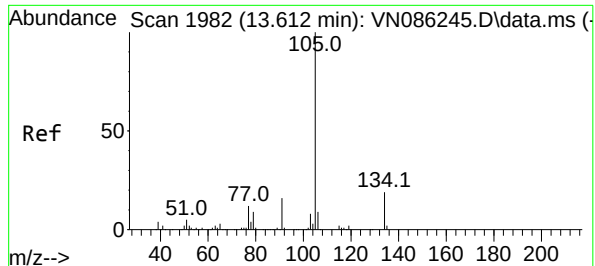


#80
1,2,4-Trimethylbenzene
Concen: 95.880 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04



Tgt Ion:105 Resp: 593988
Ion Ratio Lower Upper
105 100
120 44.6 0.0 91.0





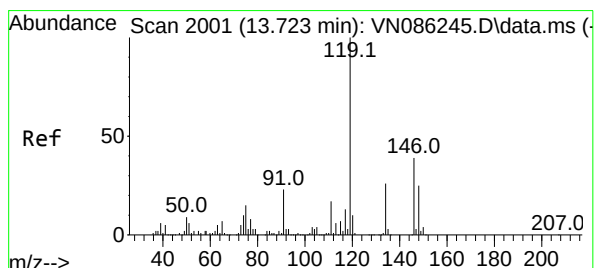
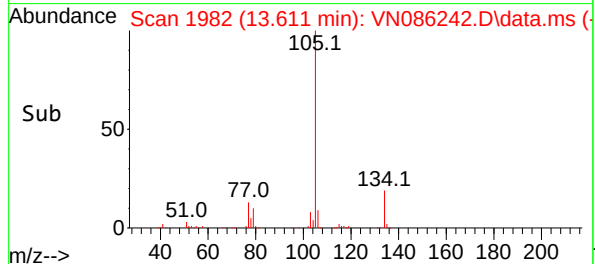
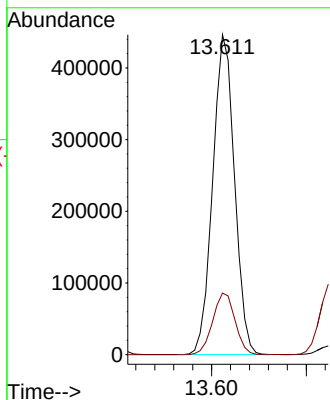
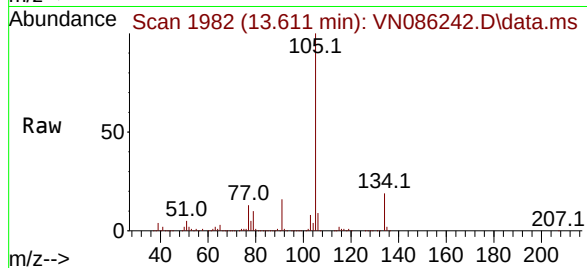
#81
sec-Butylbenzene
Concen: 96.423 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC100

Tgt Ion:105 Resp: 71103
Ion Ratio Lower Upper
105 100
134 19.8 0.0 38.6

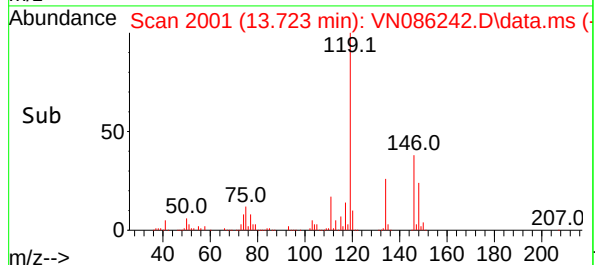
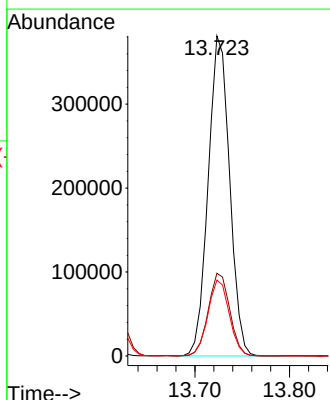
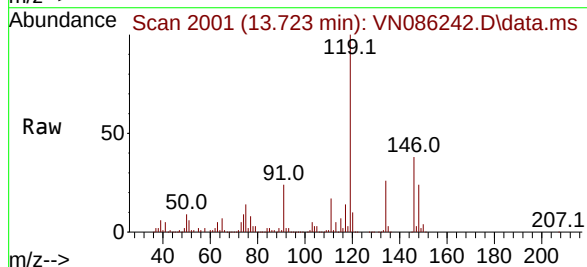
Manual Integrations
APPROVED

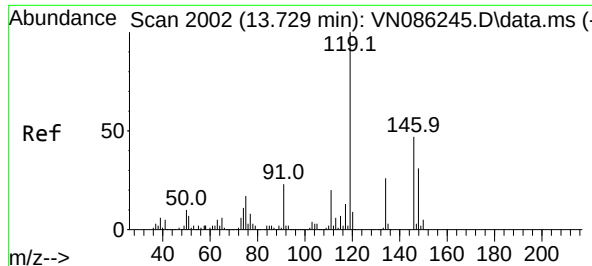
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#82
p-Isopropyltoluene
Concen: 97.402 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

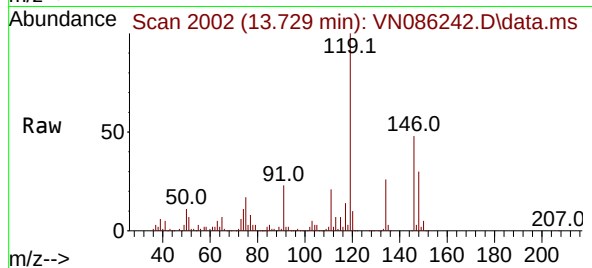
Tgt Ion:119 Resp: 599176
Ion Ratio Lower Upper
119 100
134 25.9 0.0 51.6
91 23.6 0.0 48.2





#83
1,3-Dichlorobenzene
Concen: 94.739 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

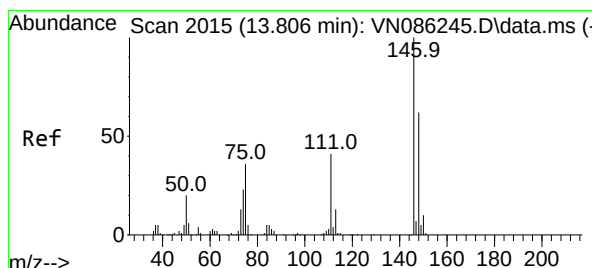
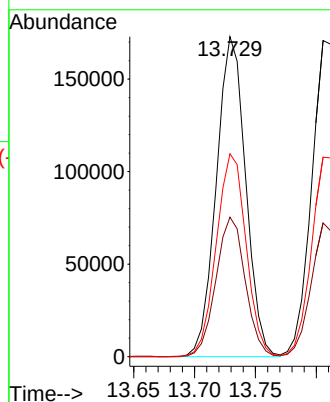
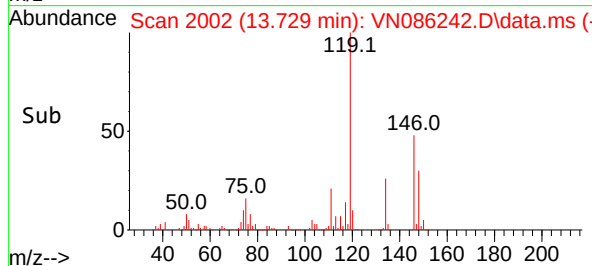
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:146 Resp: 290118
Ion Ratio Lower Upper
146 100
111 43.7 21.7 65.1
148 64.4 32.3 96.8

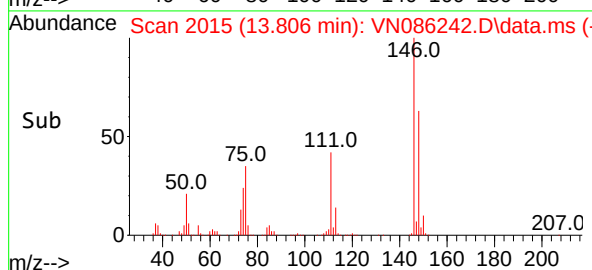
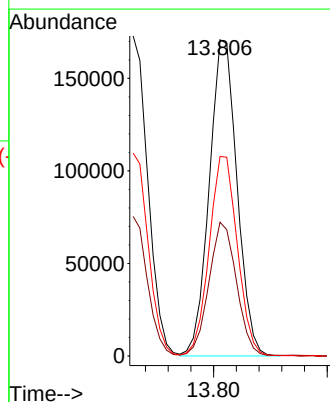
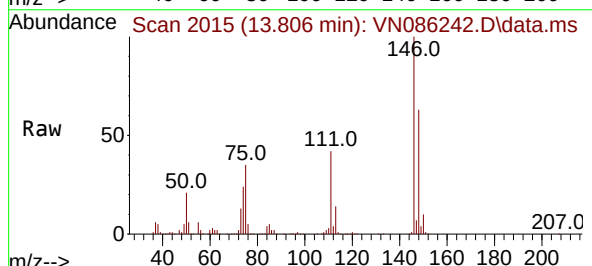
Manual Integrations
APPROVED

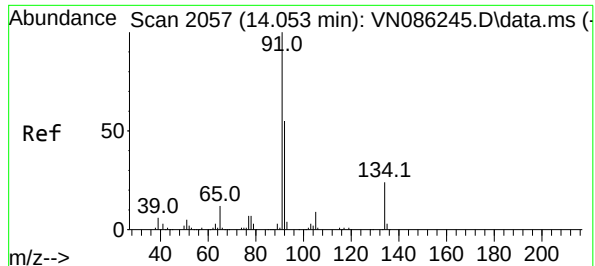
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#84
1,4-Dichlorobenzene
Concen: 94.482 ug/l
RT: 13.806 min Scan# 2015
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:146 Resp: 290254
Ion Ratio Lower Upper
146 100
111 42.1 20.8 62.4
148 63.8 31.9 95.5





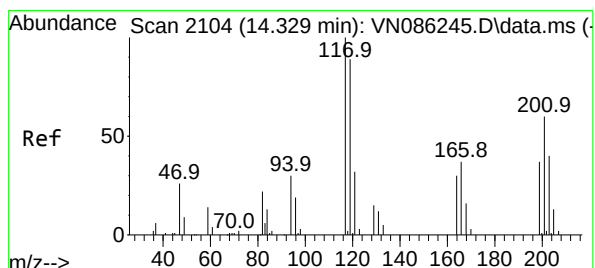
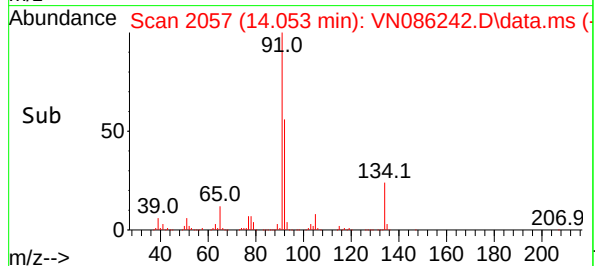
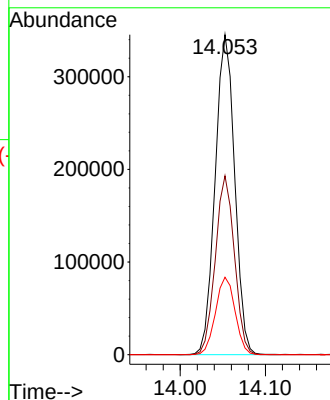
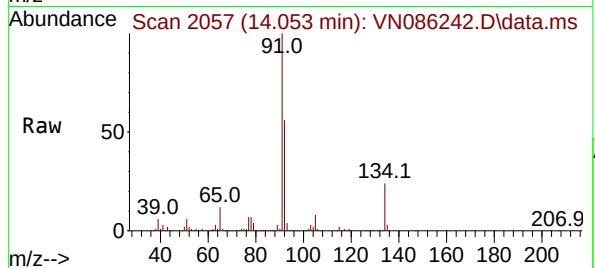
#85
n-Butylbenzene
Concen: 99.247 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 550772
Ion Ratio Lower Upper
91 100
92 54.5 0.0 109.4
134 24.2 0.0 48.2

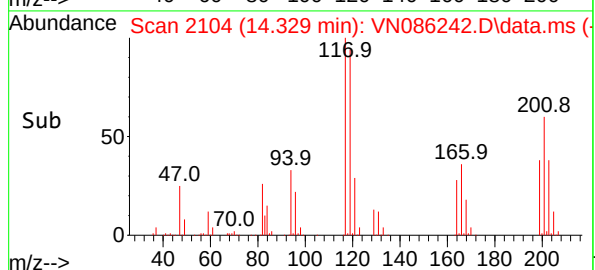
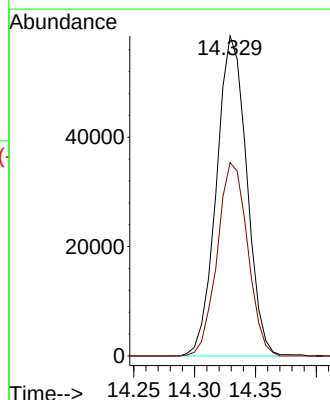
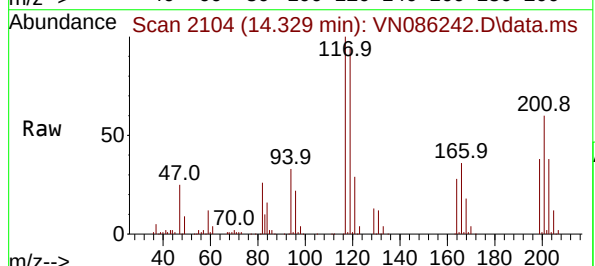
Manual Integrations
APPROVED

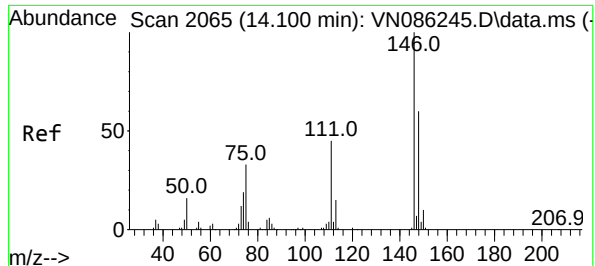
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#86
Hexachloroethane
Concen: 97.469 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:117 Resp: 101143
Ion Ratio Lower Upper
117 100
201 60.7 30.9 92.8





#87

1,2-Dichlorobenzene

Concen: 93.023 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 281264

Ion Ratio Lower Upper

146 100

111 45.9 22.7 68.0

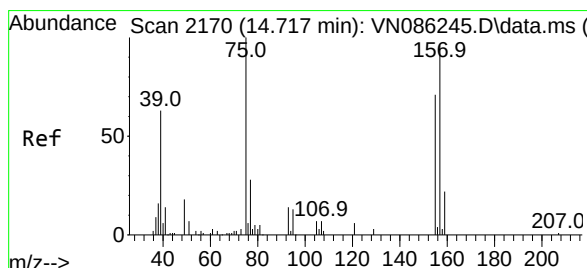
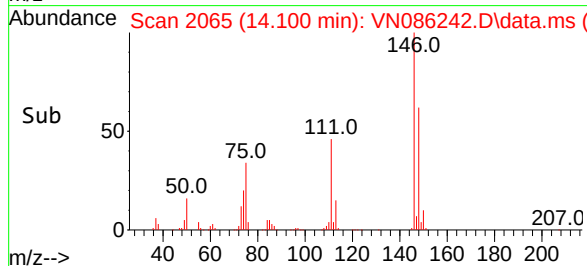
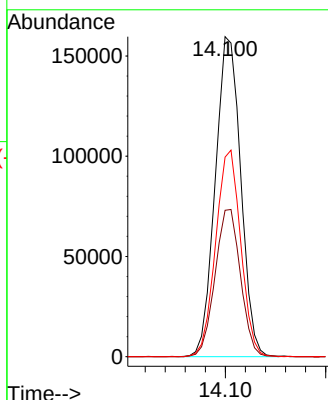
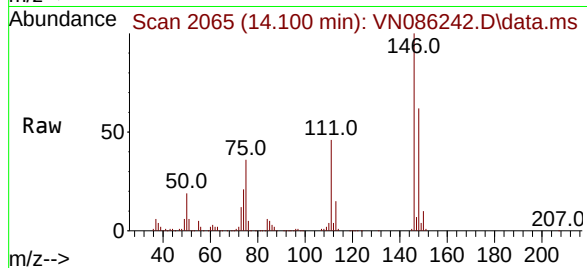
148 63.4 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 88.876 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

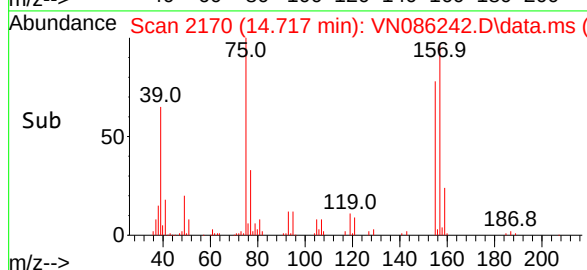
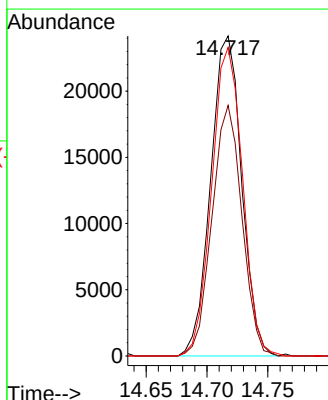
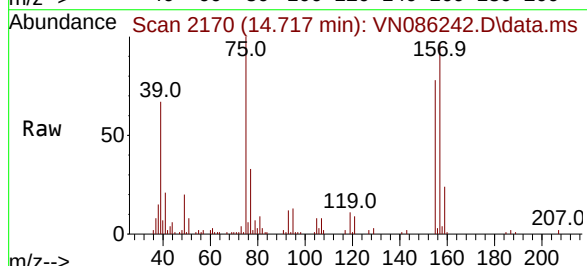
Tgt Ion: 75 Resp: 42853

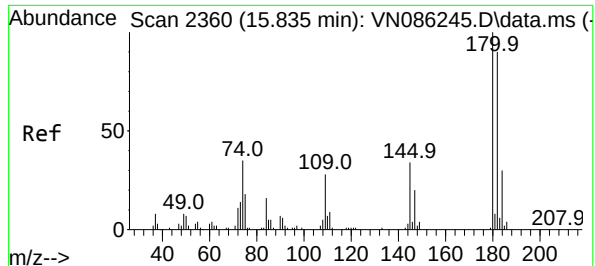
Ion Ratio Lower Upper

75 100

155 75.5 60.3 90.5

157 95.8 79.0 118.4





#89

1,2,4-Trichlorobenzene

Concen: 93.313 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:180 Resp: 137279

Ion Ratio Lower Upper

180 100

182 94.1 75.1 112.7

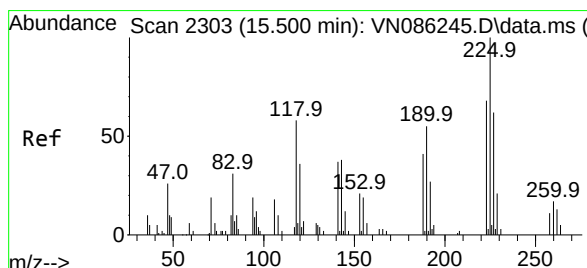
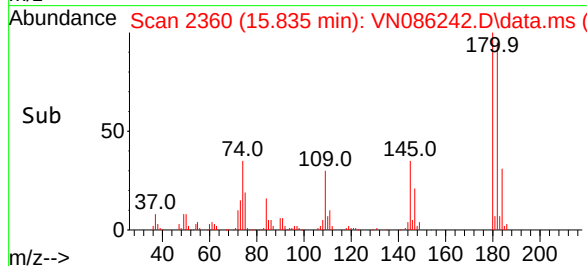
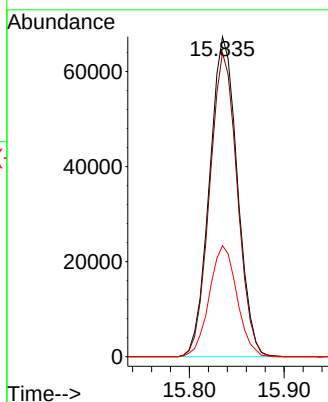
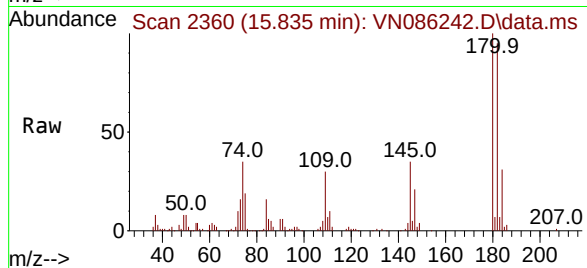
145 34.5 27.1 40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#90

Hexachlorobutadiene

Concen: 87.904 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086242.D

Acq: 11 Apr 2025 11:04

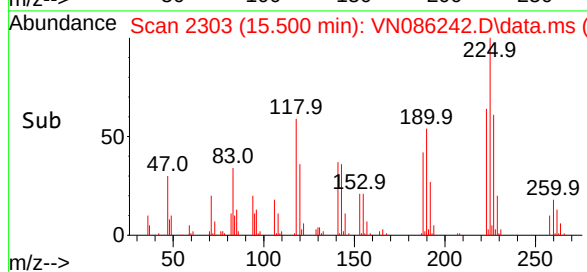
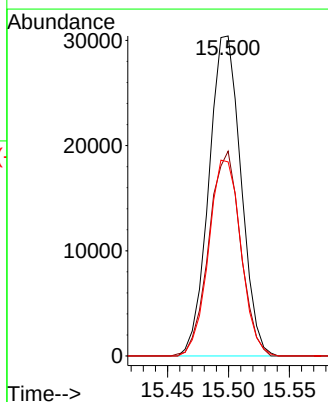
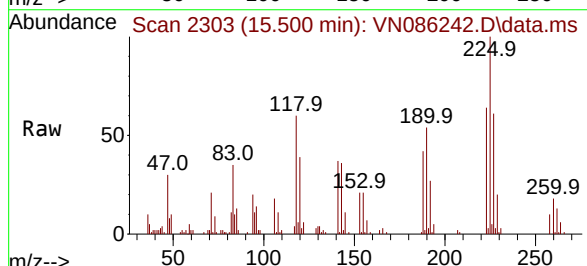
Tgt Ion:225 Resp: 55837

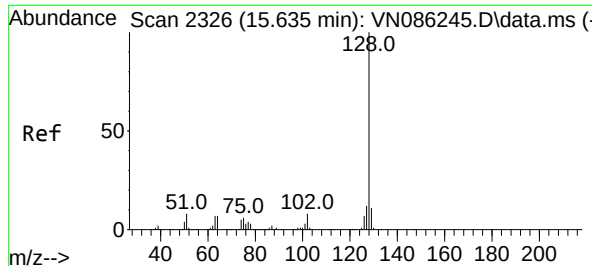
Ion Ratio Lower Upper

225 100

223 63.1 0.0 130.0

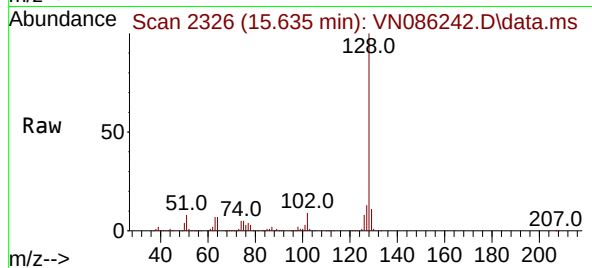
227 61.5 0.0 123.2





#91
Naphthalene
Concen: 88.964 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

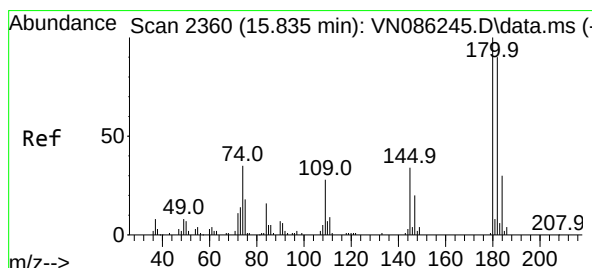
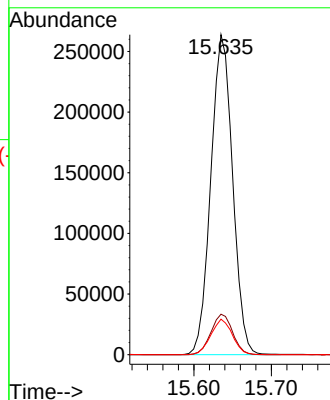
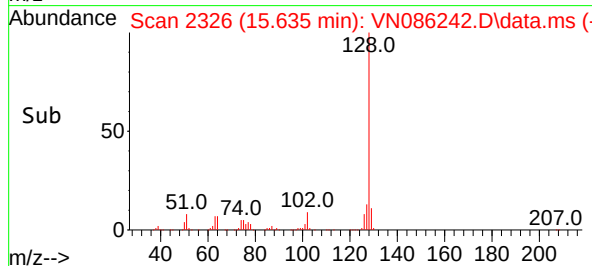
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:128 Resp: 516032
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 10.9 8.8 13.2

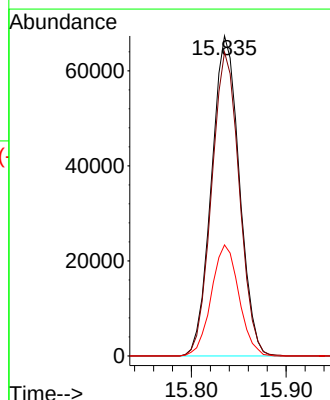
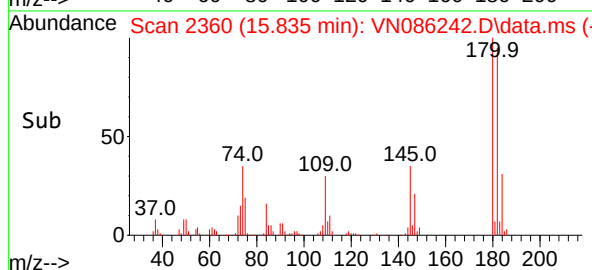
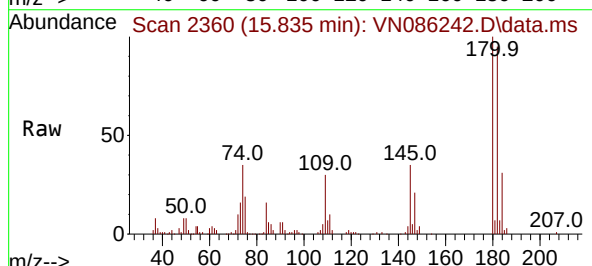
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#92
1,2,3-Trichlorobenzene
Concen: 93.313 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086242.D
Acq: 11 Apr 2025 11:04

Tgt Ion:180 Resp: 137279
Ion Ratio Lower Upper
180 100
182 94.1 0.0 187.8
145 34.5 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086244.D
 Acq On : 11 Apr 2025 11:52
 Operator : JC\MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:19:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	34719	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	212849	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	191848	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	101225	29.892	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.633%		
60) 4-Bromofluorobenzene	12.847	95	116379	30.469	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.567%		
63) Toluene-d8	10.565	98	321243	29.660	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.867%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	159577	57.365	ug/l	99
3) Chloromethane	2.359	50	209307	54.440	ug/l	98
4) Vinyl Chloride	2.512	62	204553	55.856	ug/l	98
5) Bromomethane	2.953	94	94764	51.877	ug/l	93
6) Chloroethane	3.118	64	126545	54.720	ug/l	98
7) Trichlorofluoromethane	3.495	101	224704	56.563	ug/l	99
8) Diethyl Ether	3.959	74	100444	54.826	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	137760	56.236	ug/l	97
10) 1,1-Dichloroethene	4.342	96	142552	53.920	ug/l	95
11) Methyl Iodide	4.583	142	172223	56.678	ug/l	98
12) Methyl Acetate	5.024	43	216174	57.904	ug/l	98
13) Acrolein	4.177	56	95048	223.977	ug/l	99
14) Acrylonitrile	5.712	53	435610	276.391	ug/l	98
15) Acetone	4.424	58	112588	281.504	ug/l	93
16) Carbon Disulfide	4.712	76	388287	51.220	ug/l	99
17) Allyl chloride	5.018	41	250898	54.451	ug/l	99
18) Methylene Chloride	5.277	84	160052	53.099	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	147953	62.042	ug/l	98
20) Diisopropyl ether	6.671	45	559920	56.516	ug/l	97
21) 1,1-Dichloroethane	6.571	63	294059	55.639	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	179457	54.098	ug/l	97
23) tert-Butyl Alcohol	5.512	59	185093	283.431	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	526838	55.313	ug/l	98
25) Chloroform	7.965	83	279630	55.484	ug/l	96
26) Cyclohexane	8.253	56	278241	56.272	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	210025	55.081	ug/l	99
30) 2-Butanone	7.477	43	596520	282.334	ug/l	99
31) 2,2-Dichloropropane	7.488	77	260037	55.404	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	240887	54.920	ug/l	99
33) Carbon Tetrachloride	8.359	117	199323	56.865	ug/l	97
34) Benzene	8.606	78	666877	54.974	ug/l	98
35) Methacrylonitrile	7.777	41	129688	54.448	ug/l	99
36) 1,2-Dichloroethane	8.665	62	209738	55.252	ug/l	97
37) Trichloroethene	9.347	130	164224	56.109	ug/l	90
38) Methylcyclohexane	9.600	83	253415	54.191	ug/l	99
39) 1,2-Dichloropropane	9.618	63	168378	55.783	ug/l	98
40) Dibromomethane	9.706	93	106697	54.730	ug/l	99
41) Bromodichloromethane	9.888	83	225600	53.865	ug/l	97
42) Vinyl Acetate	6.600	43	1937093	269.341	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086244.D
 Acq On : 11 Apr 2025 11:52
 Operator : JC\MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Manual Integrations

APPROVED

Reviewed By : John Carlone 04/14/2025

Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:19:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Sat Apr 12 00:09:06 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	233433	54.775	ug/l	98
44) Isopropyl Acetate	8.682	43	419280	53.034	ug/l	99
45) 1,4-Dioxane	9.688	88	71351	1134.960	ug/l #	95
46) Methyl methacrylate	9.676	41	197782	56.778	ug/l	99
47) n-amyl Acetate	12.488	43	354004	55.417	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	264279	55.817	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	277506	55.377	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	149001	54.493	ug/l	98
51) Ethyl methacrylate	10.871	69	283112	55.717	ug/l	96
52) 1,3-Dichloropropane	11.159	76	271010	55.609	ug/l	100
53) Dibromochloromethane	11.359	129	166341	55.616	ug/l	99
54) 1,2-Dibromoethane	11.465	107	152197	55.141	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	685916	357.238	ug/l	99
56) Bromoform	12.576	173	110623	56.534	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	1212140	278.421	ug/l	99
59) 2-Hexanone	11.194	43	912206	281.386	ug/l	99
61) Tetrachloroethene	11.100	164	160227	56.555	ug/l	98
62) Toluene	10.629	91	709533	55.140	ug/l	100
64) Chlorobenzene	11.888	112	434051	55.211	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	145468	56.068	ug/l	99
66) Ethyl Benzene	11.959	91	797966	55.917	ug/l	97
67) m/p-Xylenes	12.070	106	600484	113.164	ug/l	100
68) o-Xylene	12.394	106	294512	56.428	ug/l	99
69) Styrene	12.406	104	499886	56.790	ug/l	99
70) Isopropylbenzene	12.694	105	727241	56.511	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	194327	53.052	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	211703m	40.824	ug/l	
73) Bromobenzene	12.976	156	161325	56.588	ug/l	99
74) n-propylbenzene	13.035	91	865912	56.817	ug/l	100
75) 2-Chlorotoluene	13.123	91	539350	56.468	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	596201	56.398	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	100158	56.970	ug/l	92
78) 4-Chlorotoluene	13.217	91	541691	56.787	ug/l	100
79) tert-butylbenzene	13.435	119	506518	55.374	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	611389	57.035	ug/l	99
81) sec-Butylbenzene	13.612	105	714247	55.977	ug/l	99
82) p-Isopropyltoluene	13.723	119	604494	56.791	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	306241	57.795	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	303615	57.117	ug/l	100
85) n-Butylbenzene	14.053	91	536941	55.917	ug/l	99
86) Hexachloroethane	14.329	117	102084	56.854	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	301390	57.607	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	47464	56.890	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	140271	55.103	ug/l	98
90) Hexachlorobutadiene	15.500	225	56236	51.165	ug/l	99
91) Naphthalene	15.635	128	561578	55.953	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	140271	55.103	ug/l	98

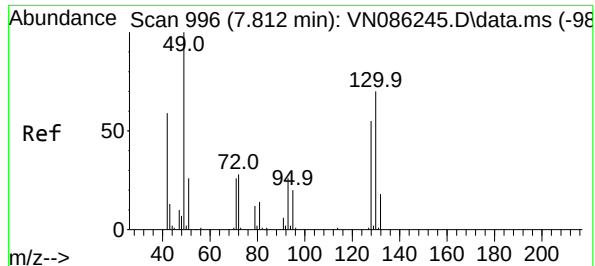
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Manual Integrations

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025





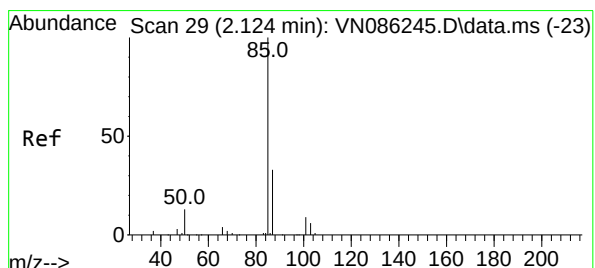
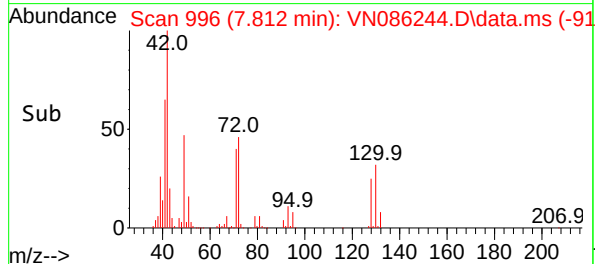
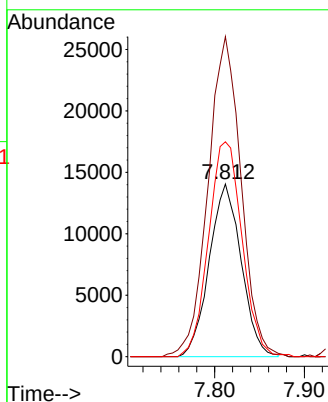
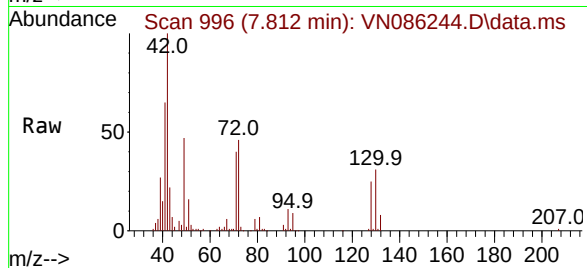
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion	Ratio	Lower	Upper
128	100		
49	191.4	0.0	452.5
130	130.4	0.0	315.0

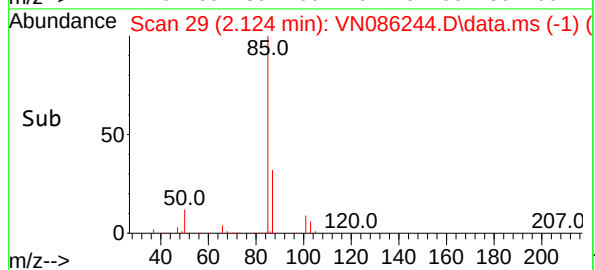
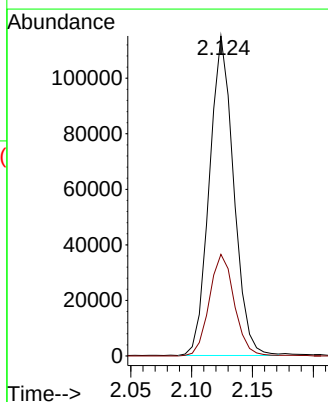
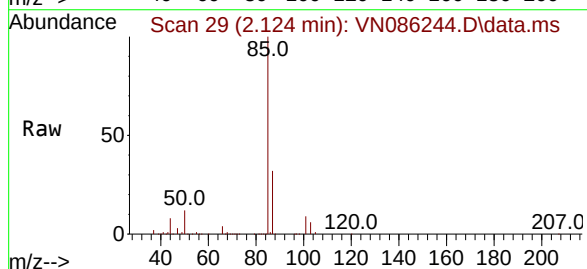
Manual Integrations
APPROVED

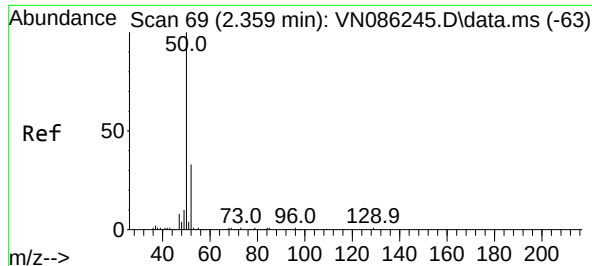
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#2
Dichlorodifluoromethane
Concen: 57.365 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.3	48.9





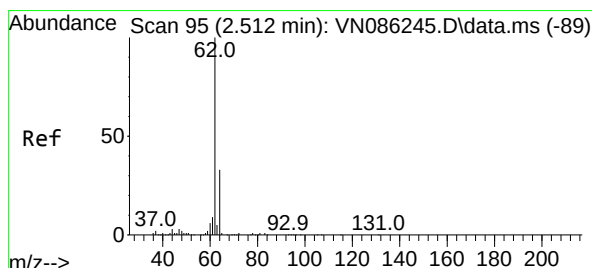
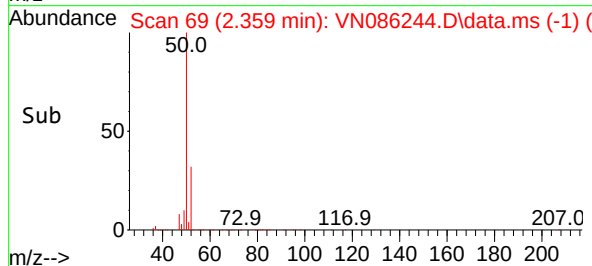
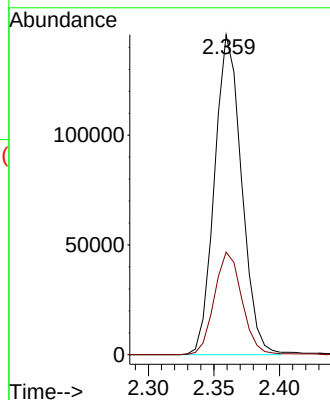
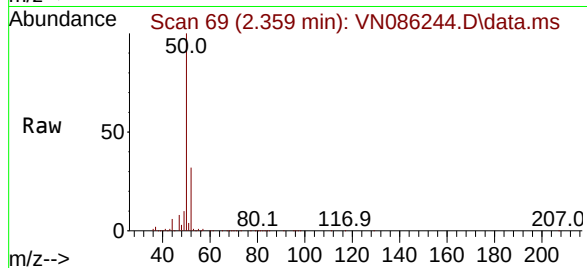
#3
Chloromethane
Concen: 54.440 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 50 Resp: 20930
Ion Ratio Lower Upper
50 100
52 32.1 26.4 39.6

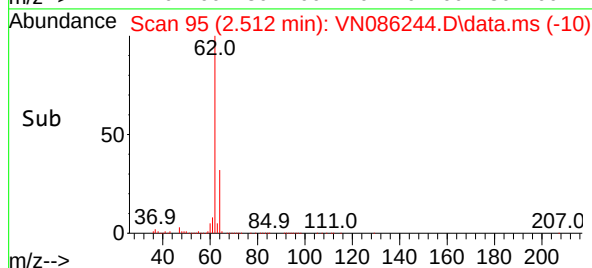
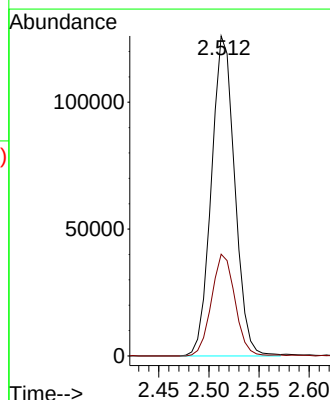
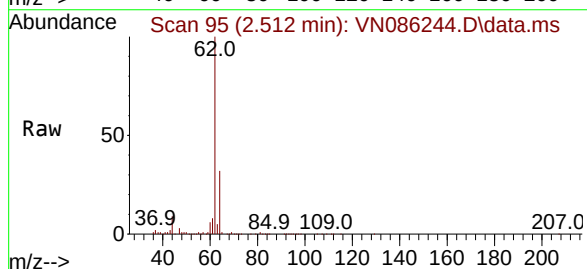
Manual Integrations
APPROVED

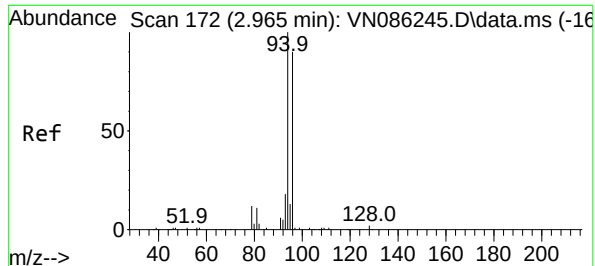
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 55.856 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 62 Resp: 204553
Ion Ratio Lower Upper
62 100
64 31.8 26.3 39.5





#5

Bromomethane

Concen: 51.877 ug/l

RT: 2.953 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 94 Resp: 94764

Ion Ratio Lower Upper

94 100

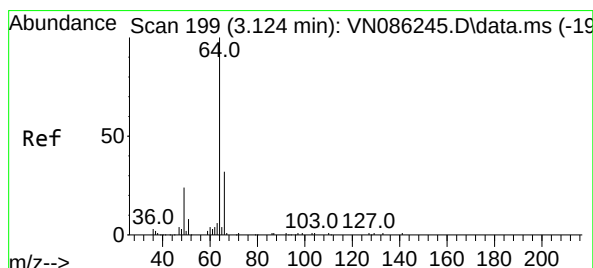
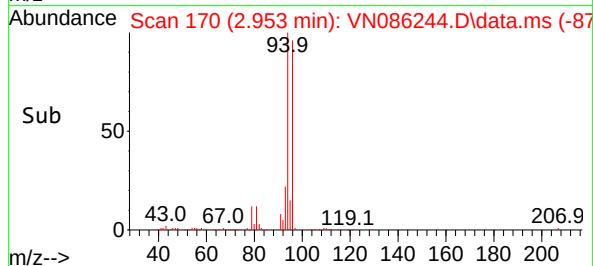
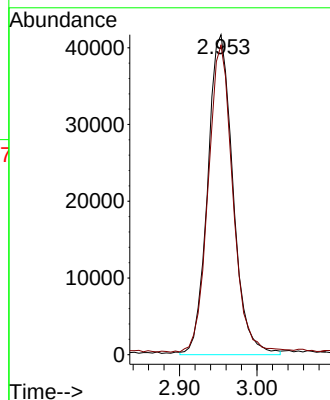
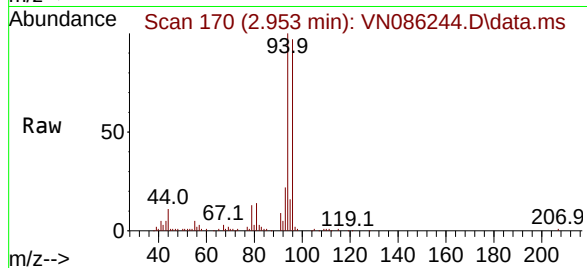
96 96.6 72.2 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#6

Chloroethane

Concen: 54.720 ug/l

RT: 3.118 min Scan# 198

Delta R.T. -0.006 min

Lab File: VN086244.D

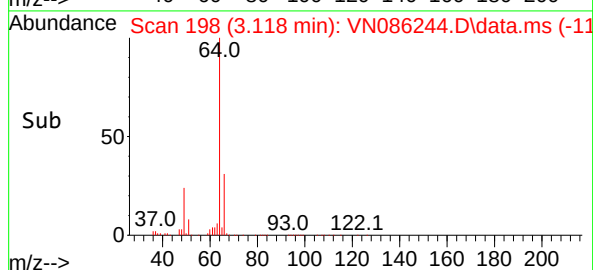
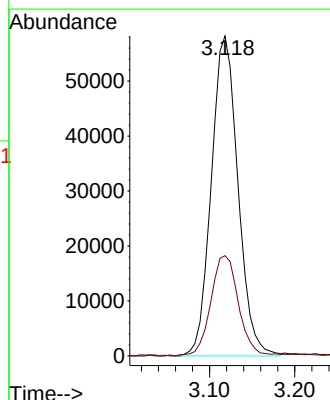
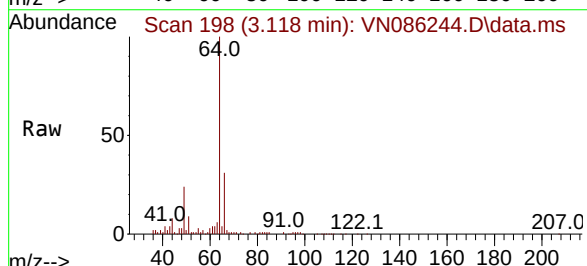
Acq: 11 Apr 2025 11:52

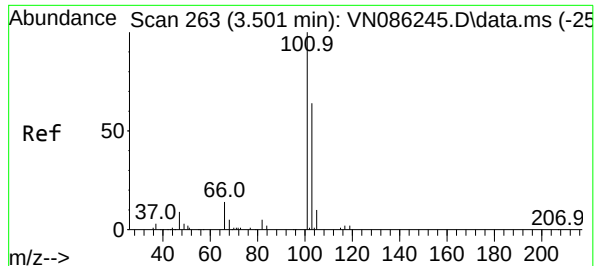
Tgt Ion: 64 Resp: 126545

Ion Ratio Lower Upper

64 100

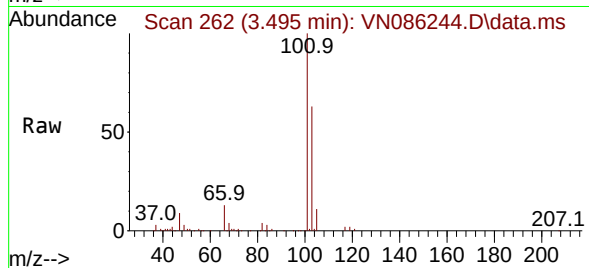
66 31.0 25.7 38.5





#7
Trichlorofluoromethane
Concen: 56.563 ug/l
RT: 3.495 min Scan# 263
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

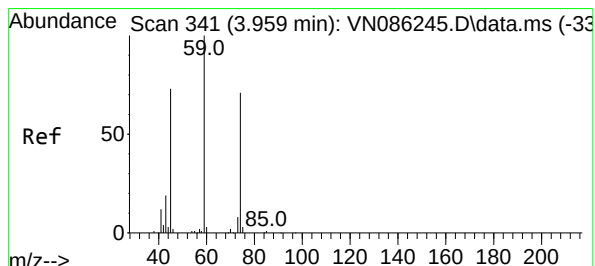
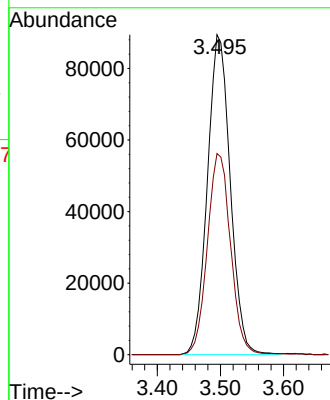
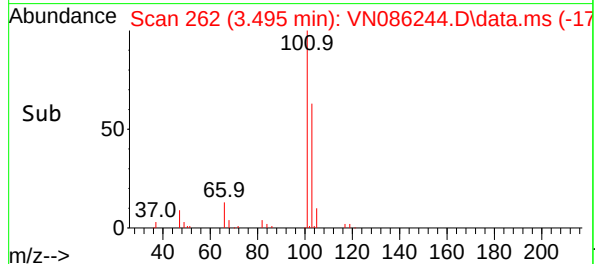
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion:101 Resp: 224704
Ion Ratio Lower Upper
101 100
103 62.8 51.2 76.8

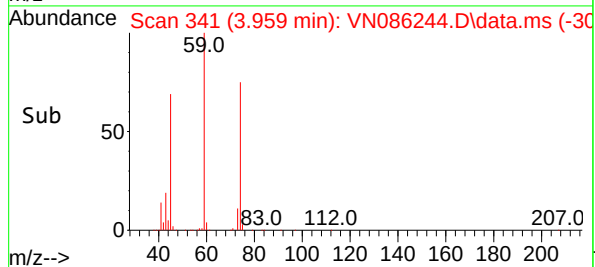
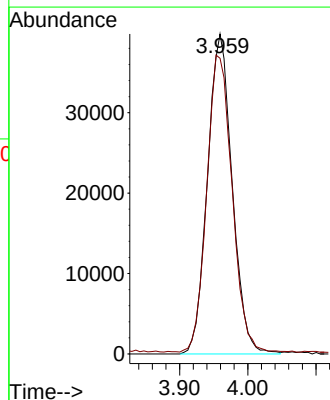
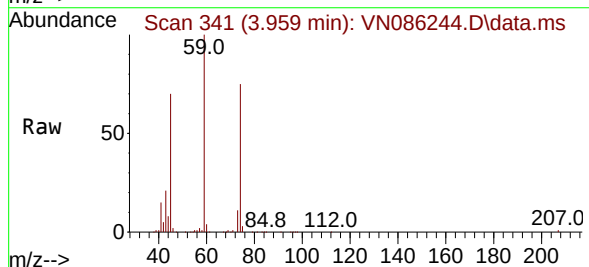
Manual Integrations
APPROVED

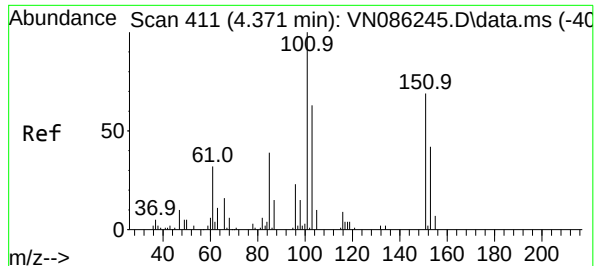
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#8
Diethyl Ether
Concen: 54.826 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 74 Resp: 100444
Ion Ratio Lower Upper
74 100
45 94.8 19.2 173.2





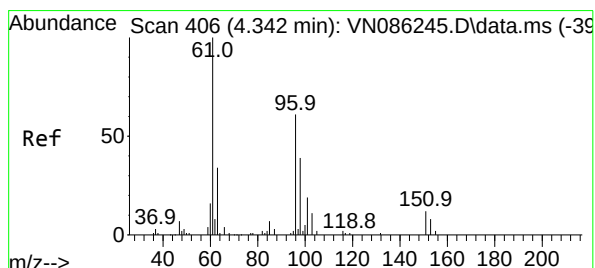
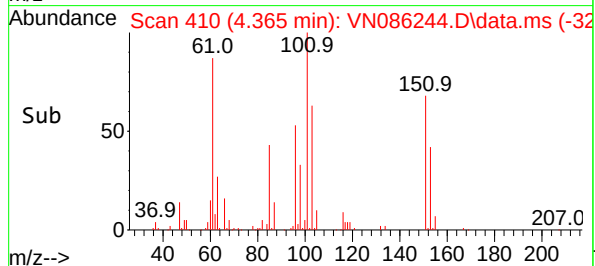
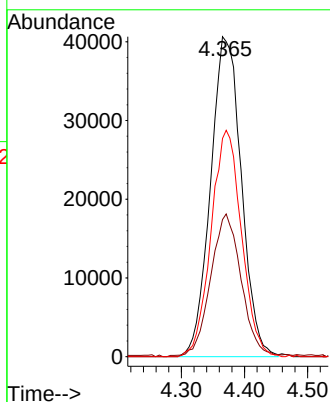
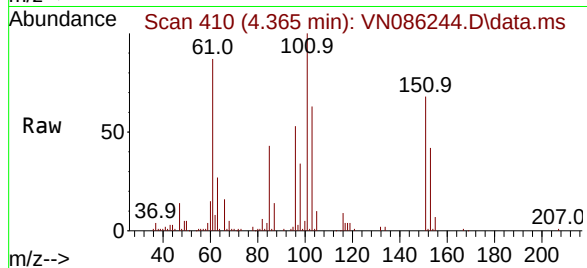
#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.236 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:101 Resp: 137760
Ion Ratio Lower Upper
101 100
85 43.0 0.0 93.0
151 69.8 0.0 138.6

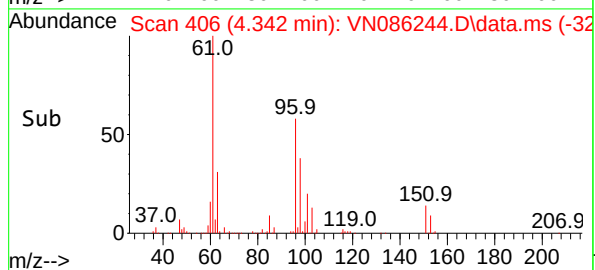
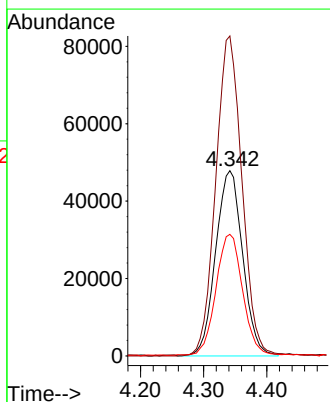
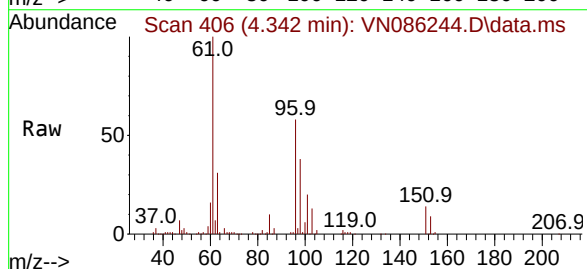
Manual Integrations
APPROVED

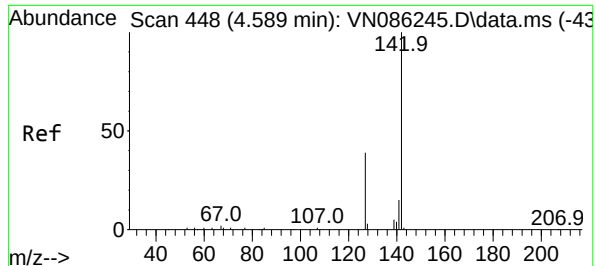
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#10
1,1-Dichloroethene
Concen: 53.920 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 96 Resp: 142552
Ion Ratio Lower Upper
96 100
61 172.7 131.1 196.7
98 64.9 51.6 77.4





#11

Methyl Iodide

Concen: 56.678 ug/l

RT: 4.583 min Scan# 448

Delta R.T. -0.006 min

Lab File: VN086244.D

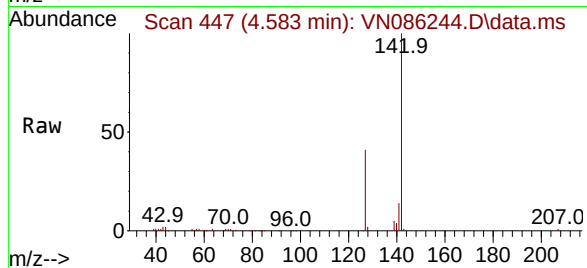
Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050



Tgt Ion:142 Resp: 17222

Ion Ratio Lower Upper

142 100

127 41.0 19.6 58.8

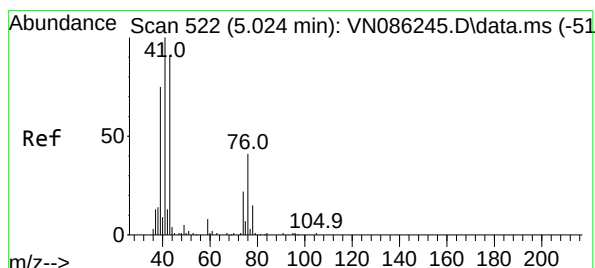
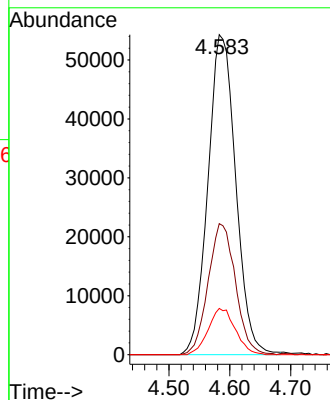
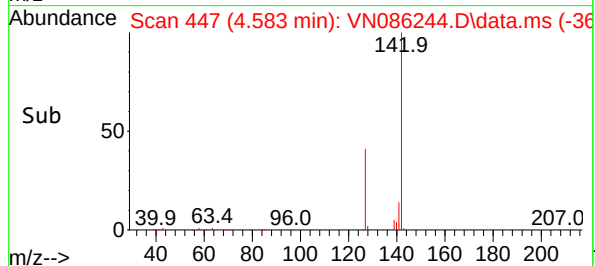
141 14.5 7.3 21.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#12

Methyl Acetate

Concen: 57.904 ug/l

RT: 5.024 min Scan# 522

Delta R.T. -0.000 min

Lab File: VN086244.D

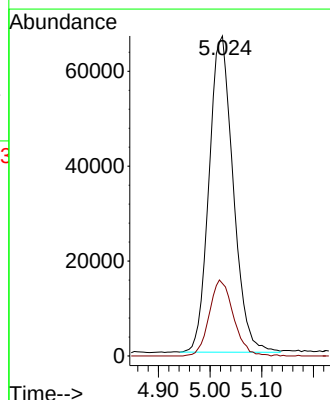
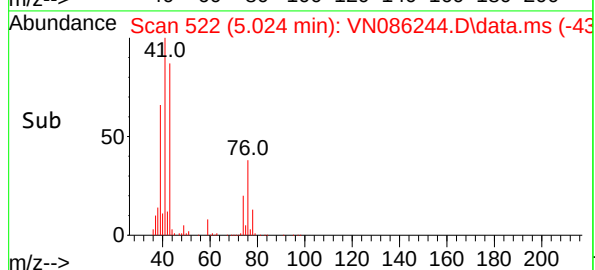
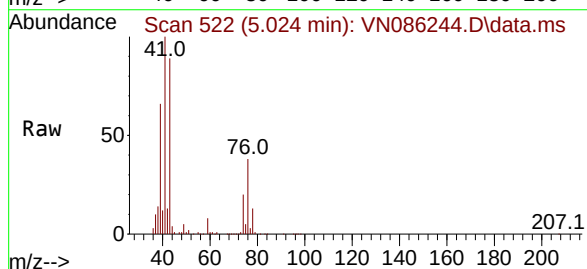
Acq: 11 Apr 2025 11:52

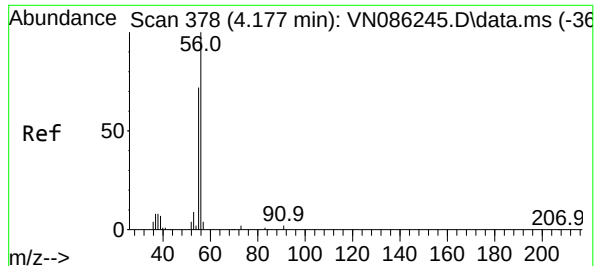
Tgt Ion: 43 Resp: 216174

Ion Ratio Lower Upper

43 100

74 22.9 19.1 28.7





#13

Acrolein

Concen: 223.977 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 56 Resp: 9504

Ion Ratio Lower Upper

56 100

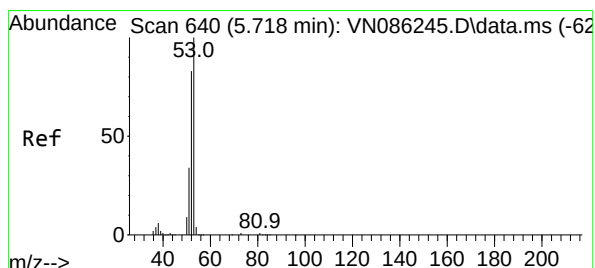
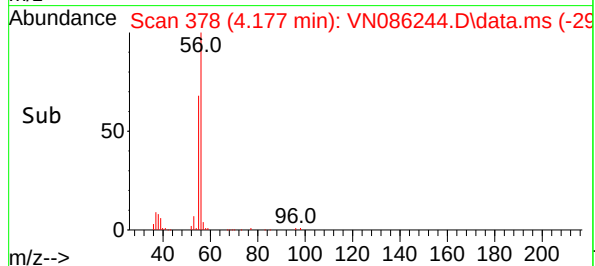
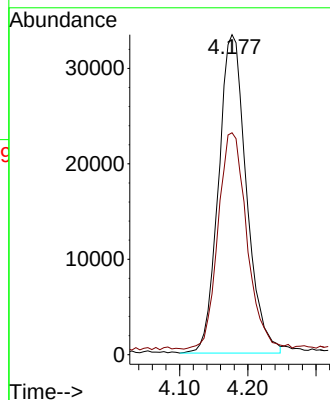
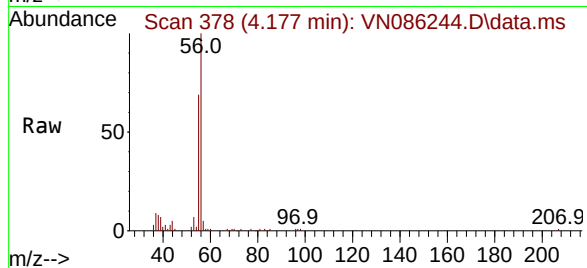
55 69.9 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#14

Acrylonitrile

Concen: 276.391 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

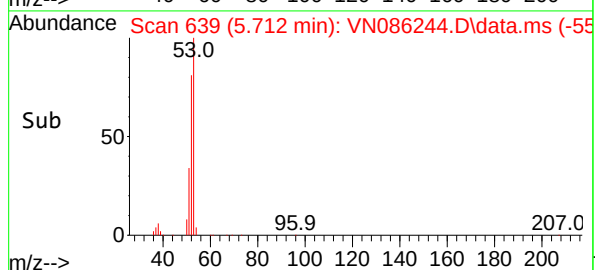
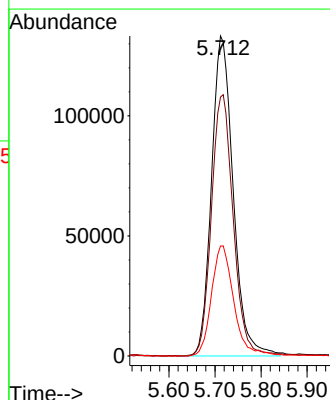
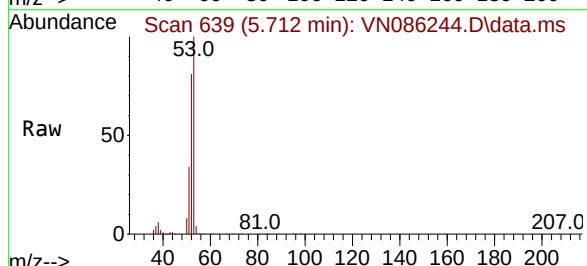
Tgt Ion: 53 Resp: 435610

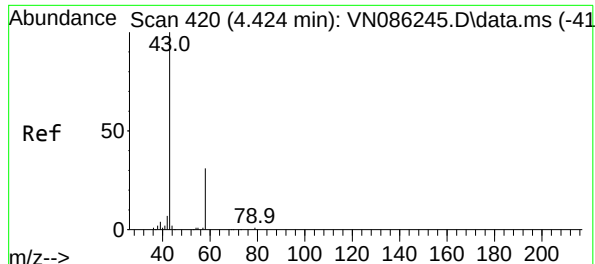
Ion Ratio Lower Upper

53 100

52 82.0 40.2 120.6

51 34.5 17.5 52.6





#15

Acetone

Concen: 281.504 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 58 Resp: 11258

Ion Ratio Lower Upper

58 100

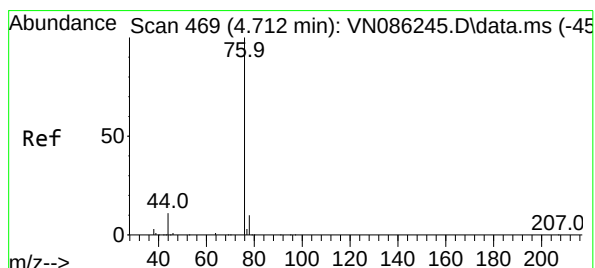
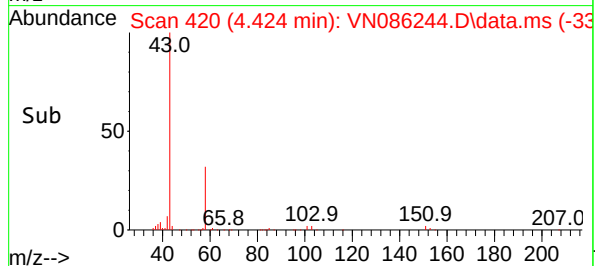
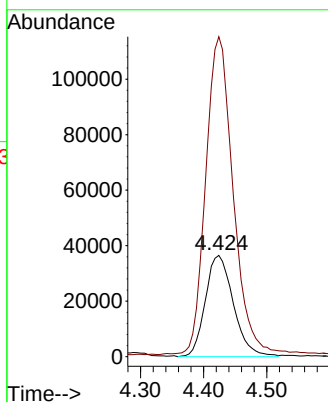
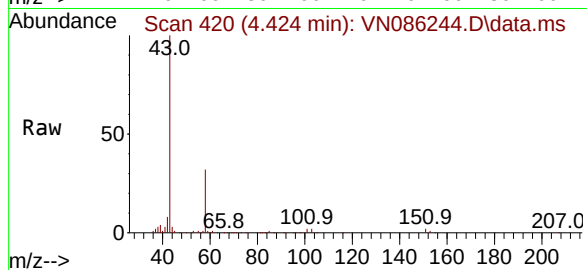
43 312.3 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#16

Carbon Disulfide

Concen: 51.220 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086244.D

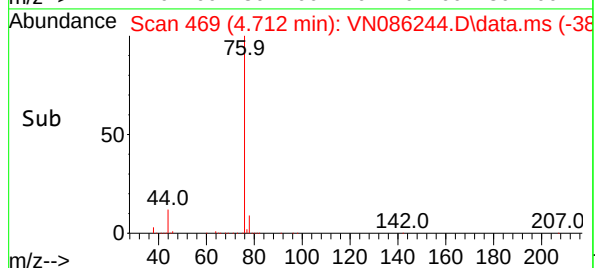
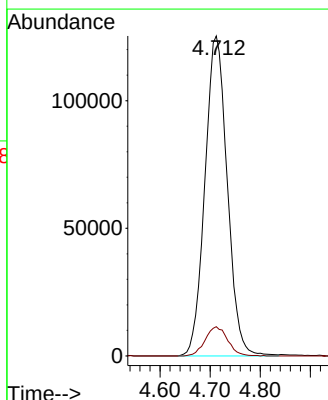
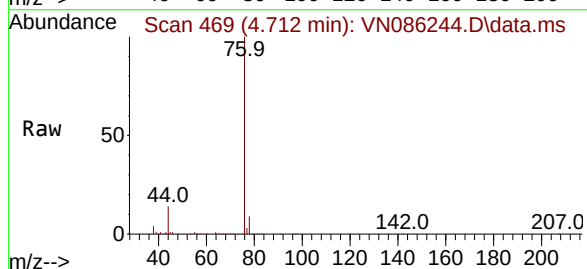
Acq: 11 Apr 2025 11:52

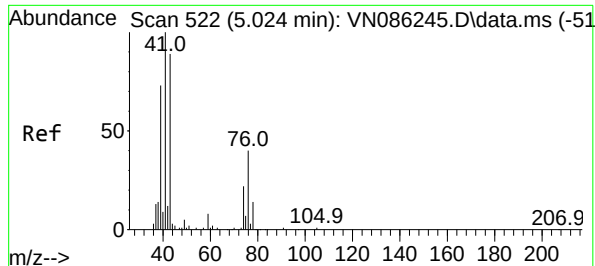
Tgt Ion: 76 Resp: 388287

Ion Ratio Lower Upper

76 100

78 9.2 7.7 11.5





#17

Allyl chloride

Concen: 54.451 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

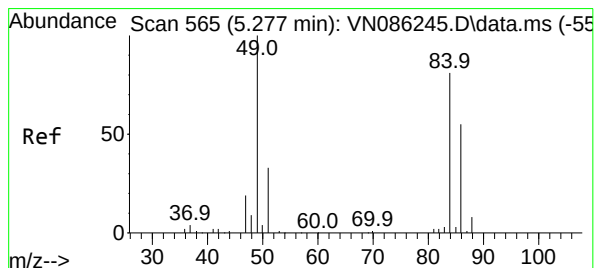
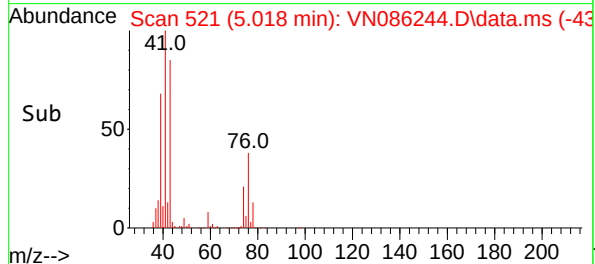
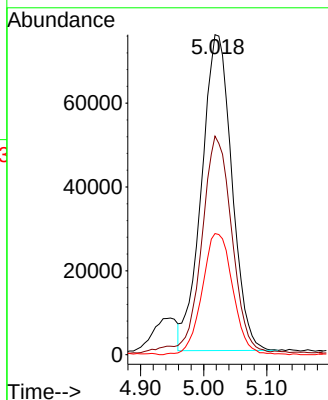
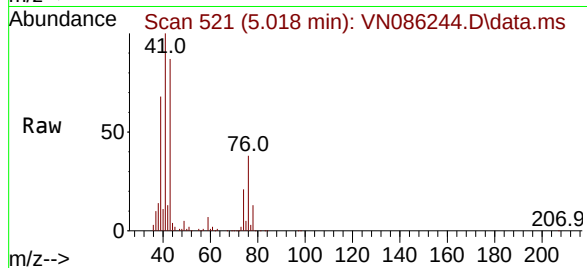
VSTDICC050

Tgt Ion:	41	Resp:	250898
Ion	Ratio	Lower	Upper
41	100		
39	68.2	34.4	103.2
76	38.1	18.8	56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#18

Methylene Chloride

Concen: 53.099 ug/l

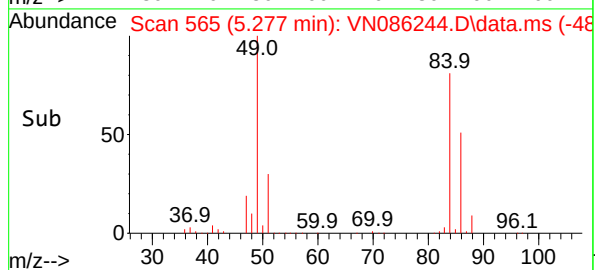
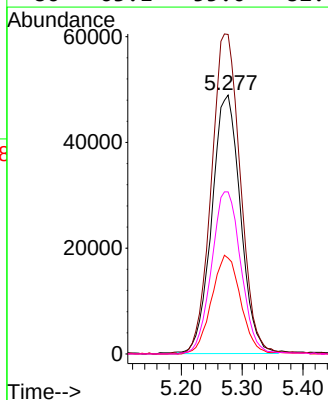
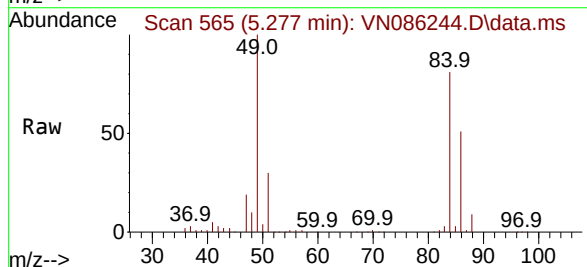
RT: 5.277 min Scan# 565

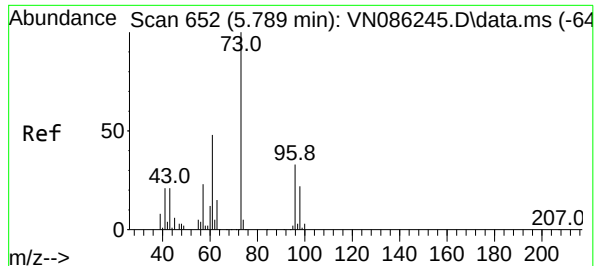
Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Tgt Ion:	84	Resp:	160052
Ion	Ratio	Lower	Upper
84	100		
49	124.3	99.1	148.7
51	37.3	32.3	48.5
86	63.1	55.0	82.4





#19

trans-1,2-Dichloroethene

Concen: 62.042 ug/l

RT: 5.789 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 96 Resp: 14795

Ion Ratio Lower Upper

96 100

61 143.4 115.9 173.9

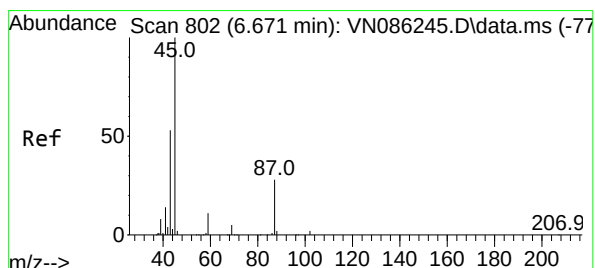
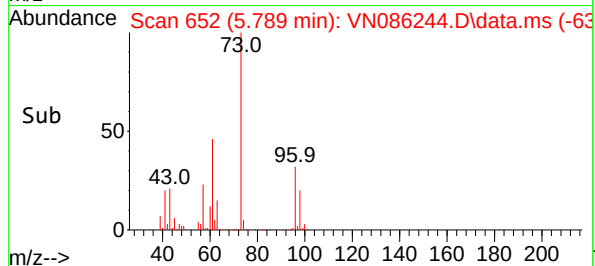
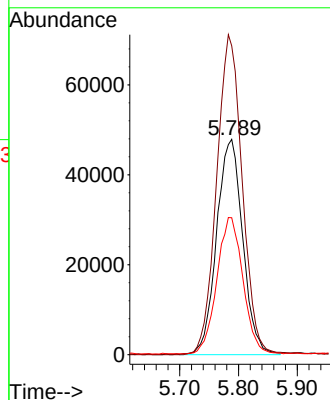
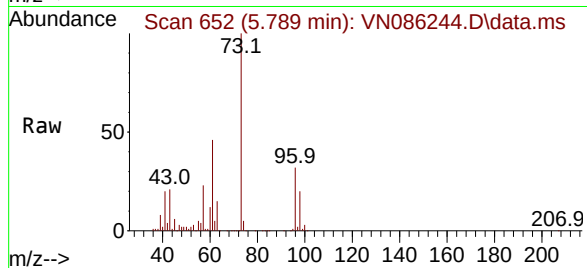
98 63.2 52.1 78.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#20

Diisopropyl ether

Concen: 56.516 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Tgt Ion: 45 Resp: 559920

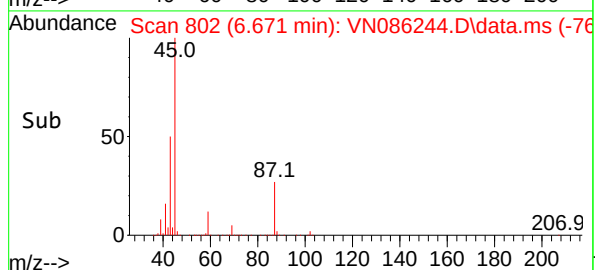
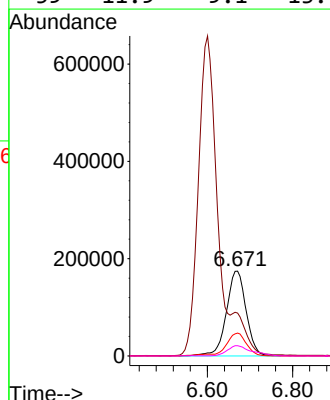
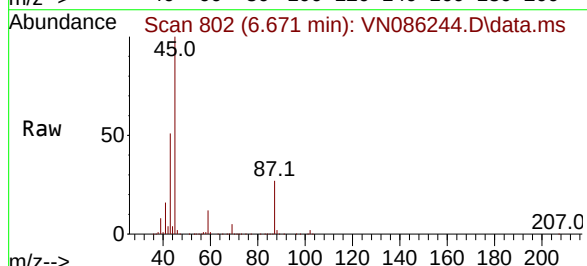
Ion Ratio Lower Upper

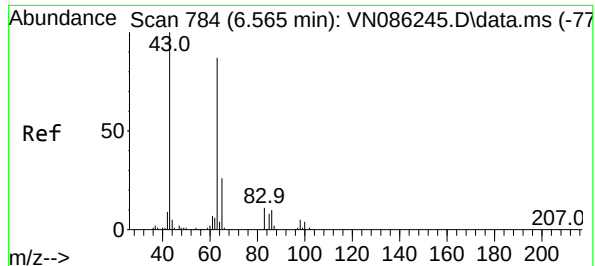
45 100

43 49.4 42.3 63.5

87 27.1 22.2 33.4

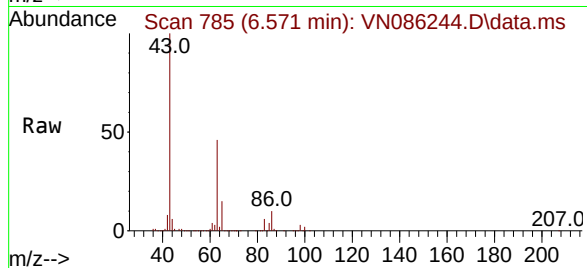
59 11.9 9.1 13.7





#21
1,1-Dichloroethane
Concen: 55.639 ug/l
RT: 6.571 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

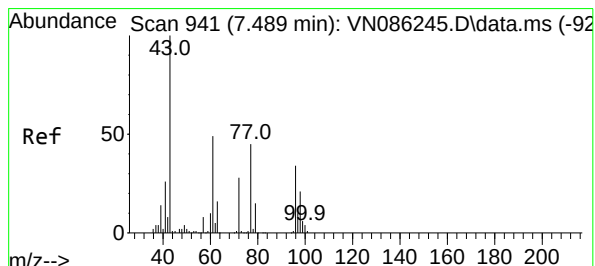
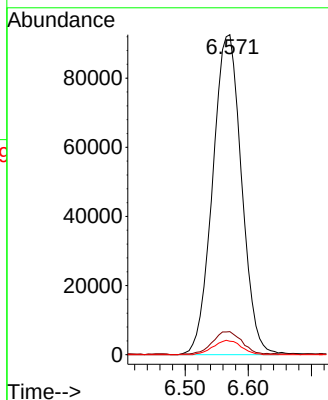
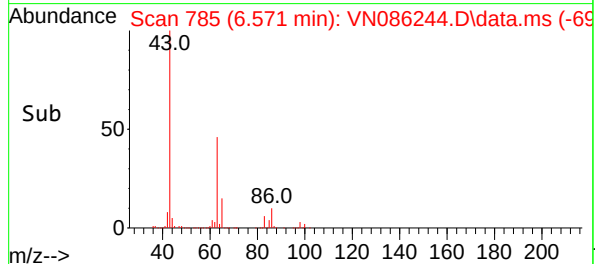
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 63 Resp: 294059
Ion Ratio Lower Upper
63 100
98 7.2 3.1 9.3
100 4.2 2.3 6.9

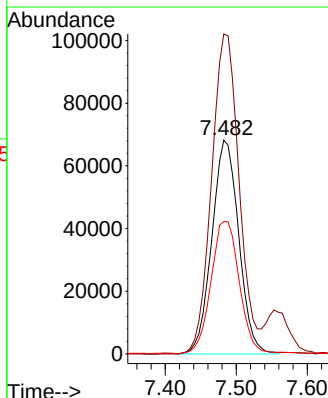
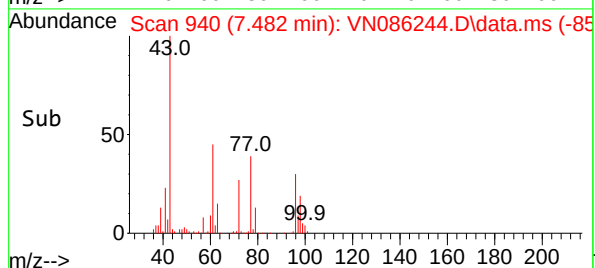
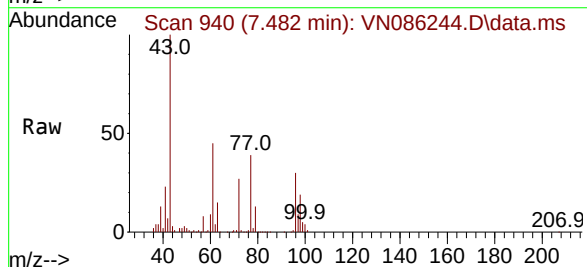
Manual Integrations
APPROVED

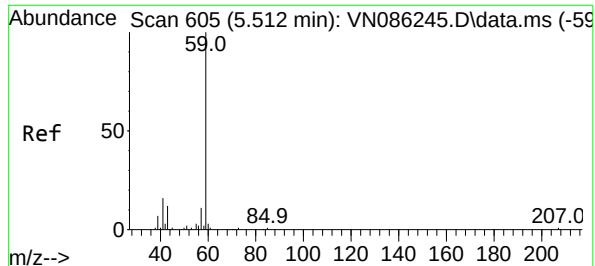
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#22
cis-1,2-Dichloroethene
Concen: 54.098 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 96 Resp: 179457
Ion Ratio Lower Upper
96 100
61 153.7 119.5 179.3
98 65.1 51.0 76.6





#23

tert-Butyl Alcohol

Concen: 283.431 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 59 Resp: 185093

Ion Ratio Lower Upper

59 100

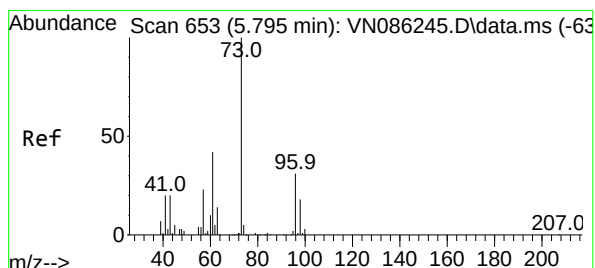
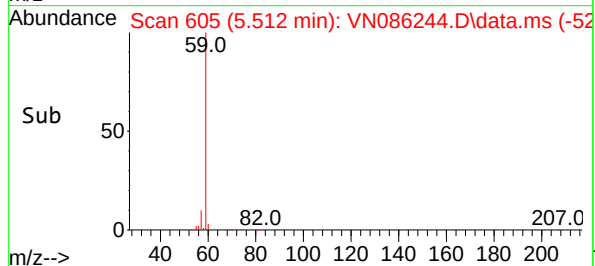
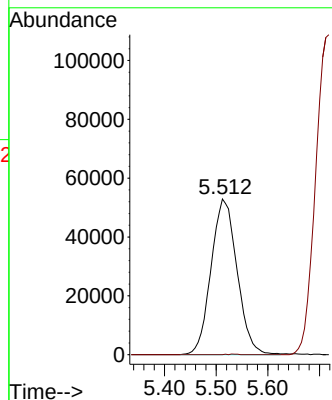
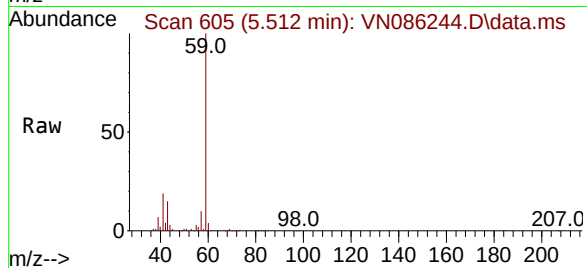
52 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#24

Methyl tert-Butyl Ether

Concen: 55.313 ug/l

RT: 5.794 min Scan# 653

Delta R.T. -0.000 min

Lab File: VN086244.D

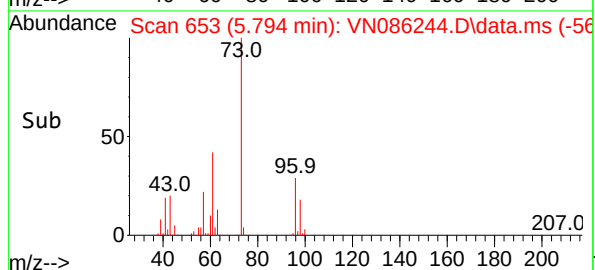
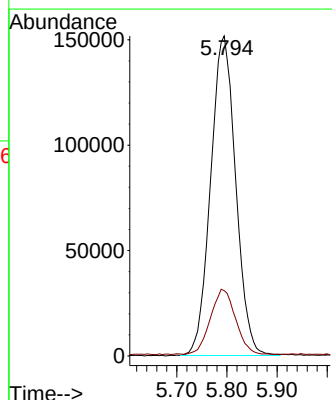
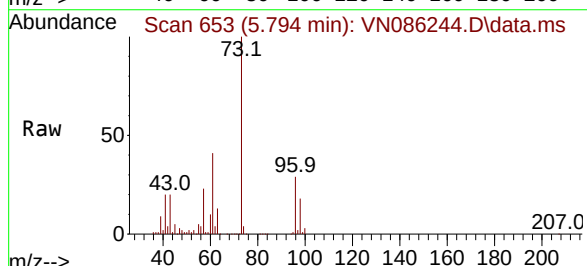
Acq: 11 Apr 2025 11:52

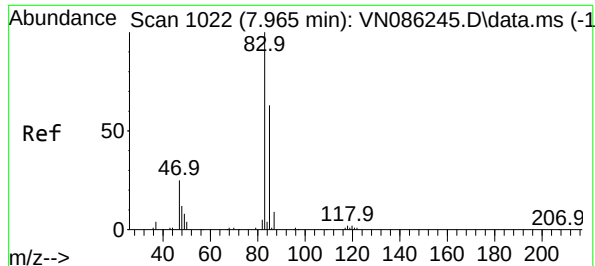
Tgt Ion: 73 Resp: 526838

Ion Ratio Lower Upper

73 100

43 20.3 16.8 25.2





#25

Chloroform

Concen: 55.484 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 83 Resp: 279630

Ion Ratio Lower Upper

83 100

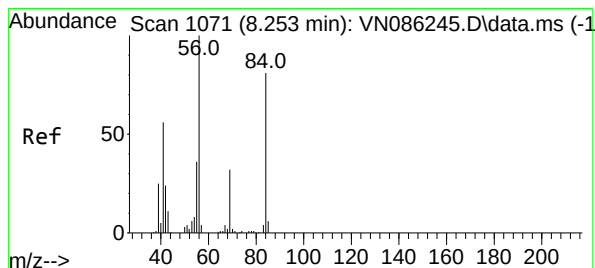
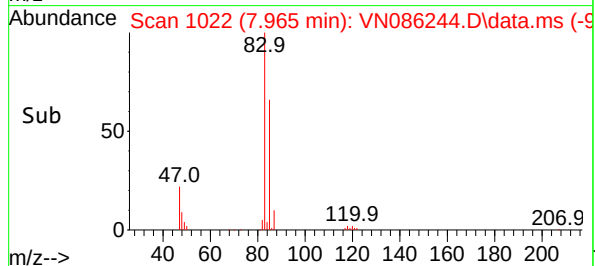
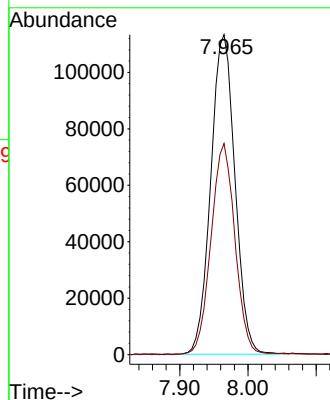
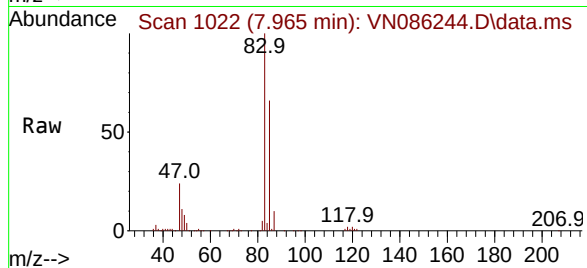
85 65.9 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#26

Cyclohexane

Concen: 56.272 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

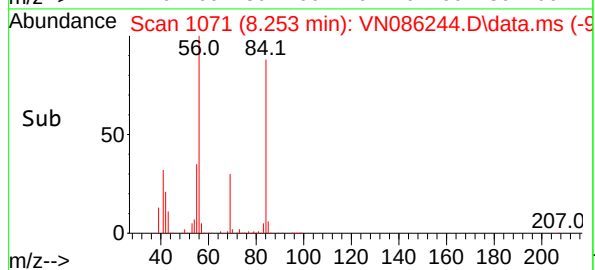
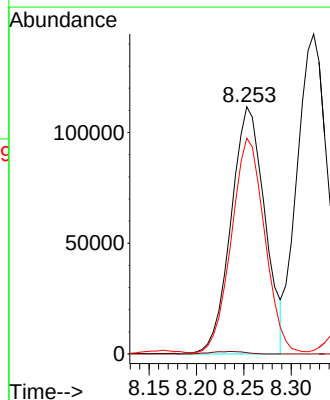
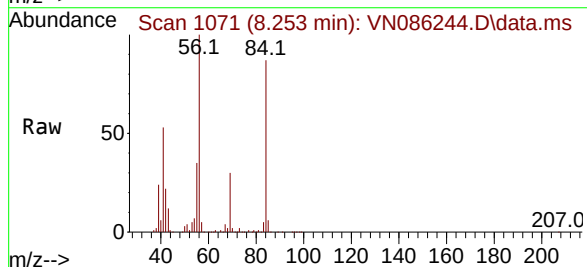
Tgt Ion: 56 Resp: 278241

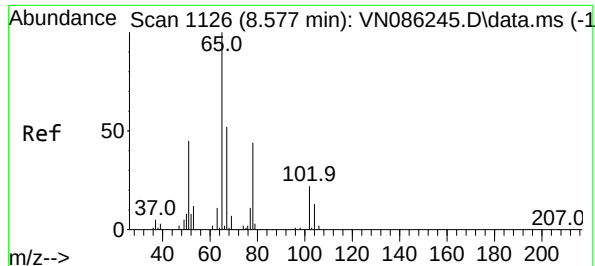
Ion Ratio Lower Upper

56 100

89 1.0 0.0 0.0#

84 86.0 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 29.892 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 65 Resp: 101225

Ion Ratio Lower Upper

65 100

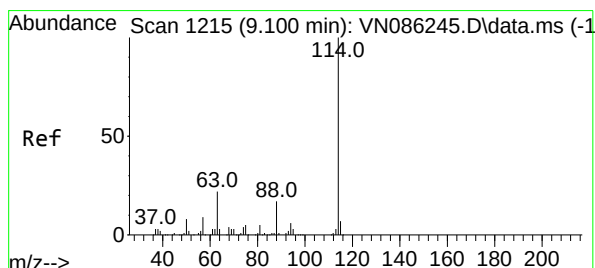
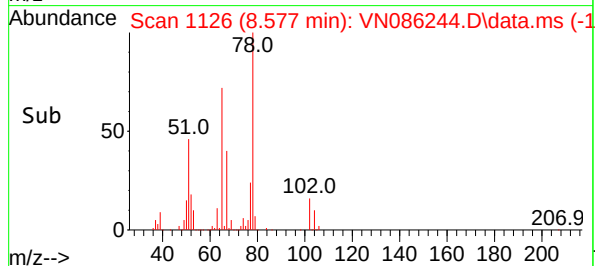
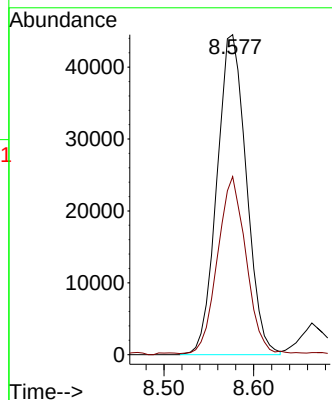
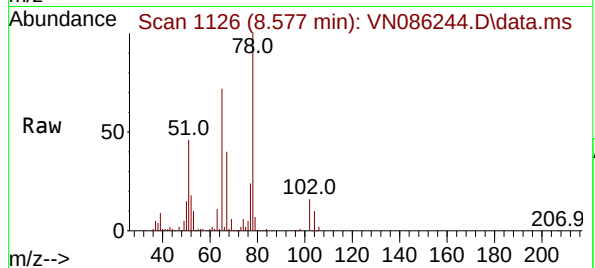
67 53.0 43.4 65.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

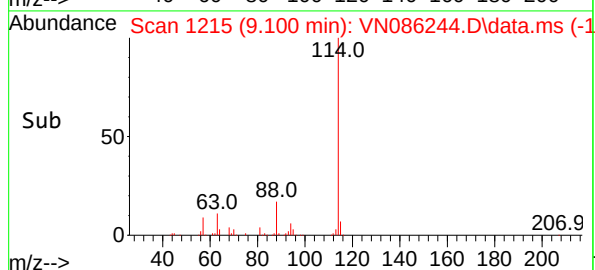
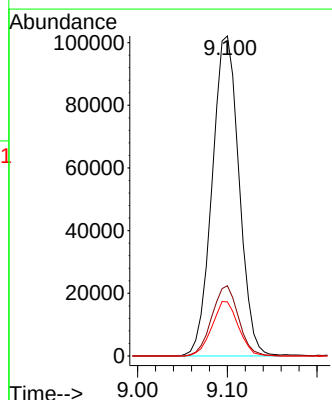
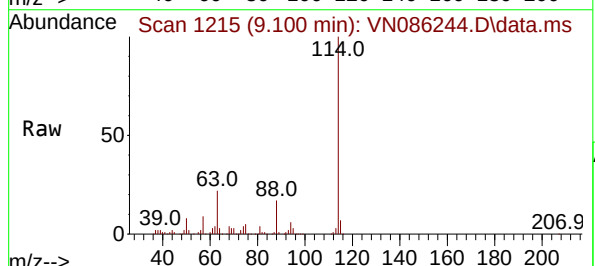
Tgt Ion:114 Resp: 212849

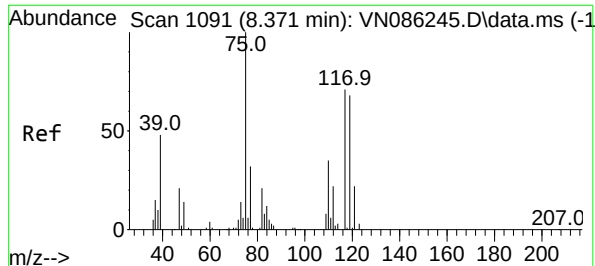
Ion Ratio Lower Upper

114 100

63 21.7 17.8 26.6

88 16.7 13.4 20.2





#29

1,1-Dichloropropene

Concen: 55.081 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 75 Resp: 21002

Ion Ratio Lower Upper

75 100

110 33.9 0.0 68.6

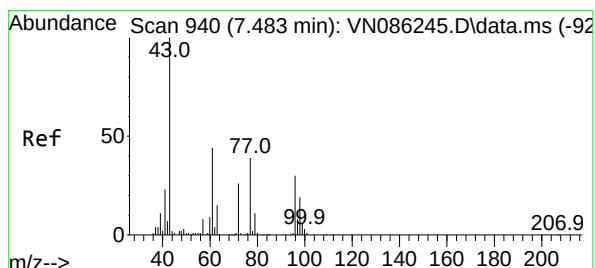
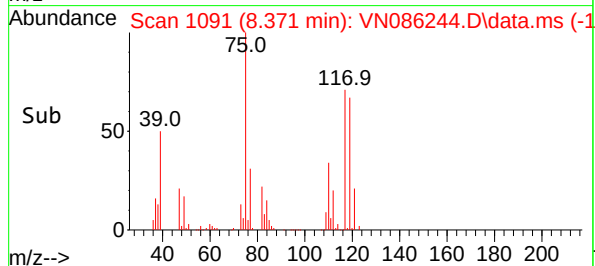
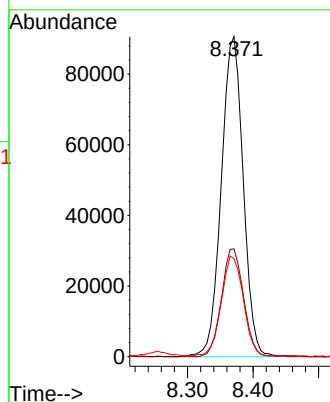
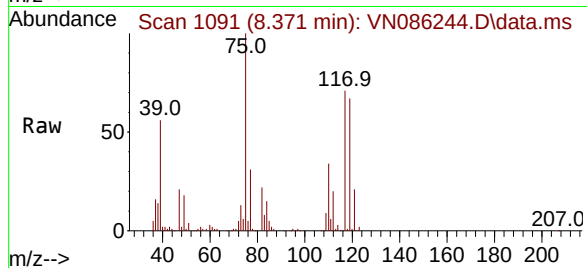
77 31.4 0.0 63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#30

2-Butanone

Concen: 282.334 ug/l

RT: 7.477 min Scan# 939

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

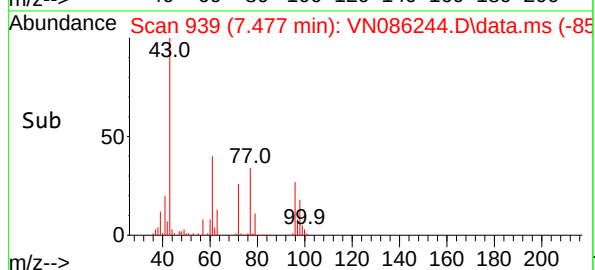
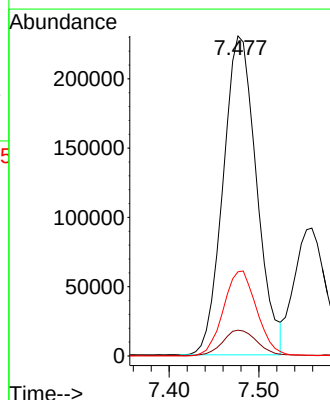
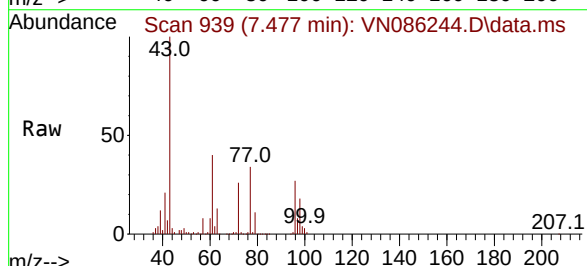
Tgt Ion: 43 Resp: 596520

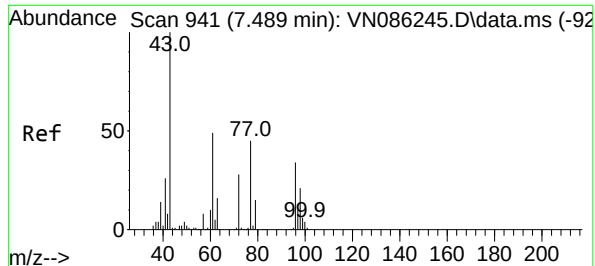
Ion Ratio Lower Upper

43 100

57 8.3 6.4 9.6

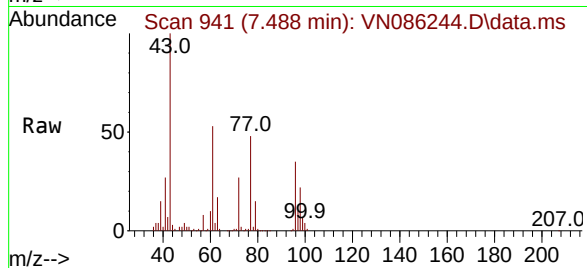
72 26.5 21.5 32.3





#31
2,2-Dichloropropane
Concen: 55.404 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

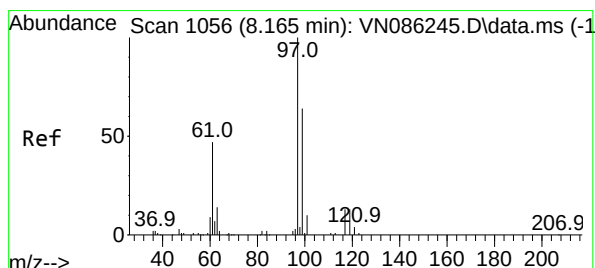
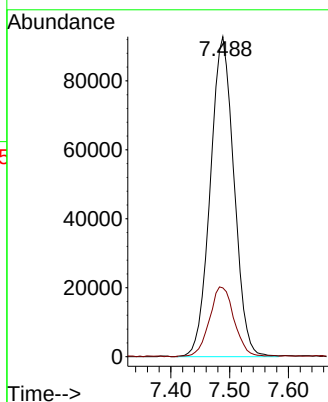
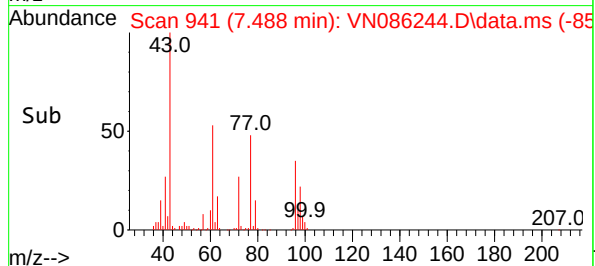
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 77 Resp: 26003
Ion Ratio Lower Upper
77 100
97 22.2 18.8 28.2

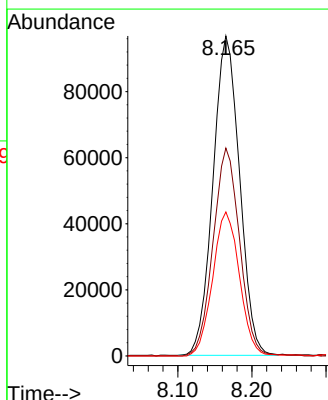
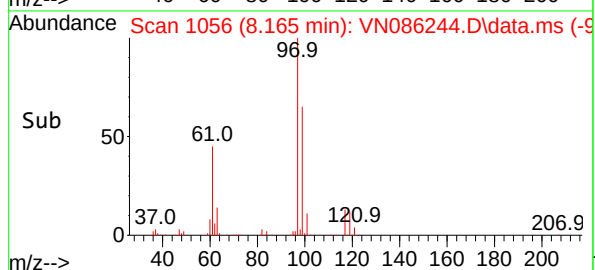
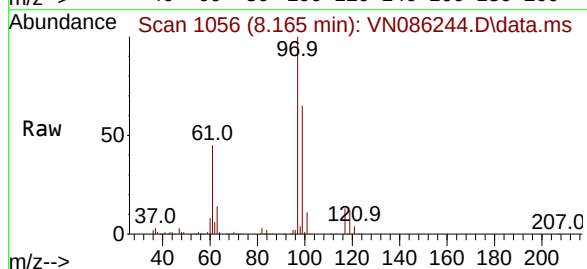
Manual Integrations
APPROVED

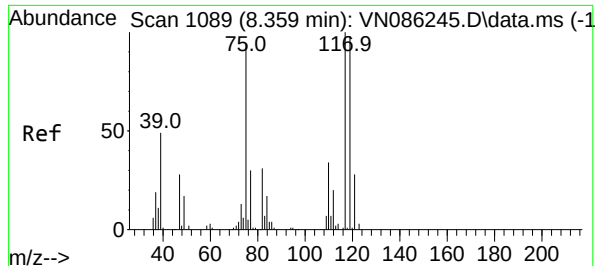
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#32
1,1,1-Trichloroethane
Concen: 54.920 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

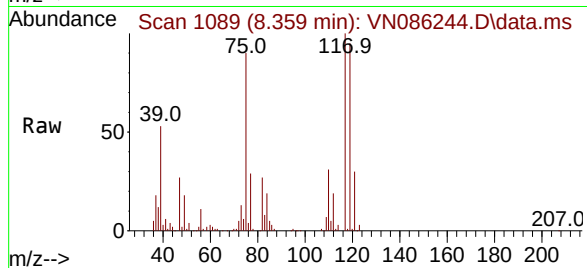
Tgt Ion: 97 Resp: 240887
Ion Ratio Lower Upper
97 100
99 64.8 51.4 77.2
61 45.4 37.0 55.6





#33
Carbon Tetrachloride
Concen: 56.865 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

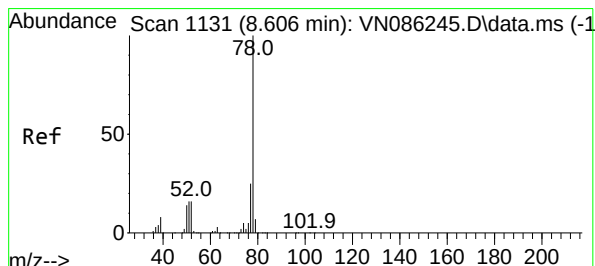
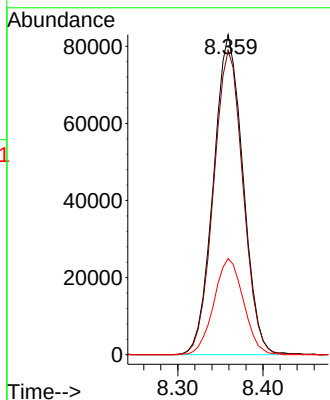
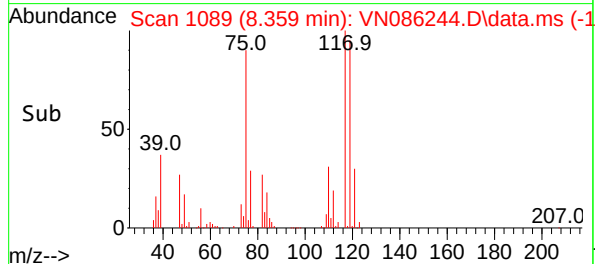
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 117 Resp: 19932
Ion Ratio Lower Upper
117 100
119 94.9 78.3 117.5
121 30.0 22.5 33.7

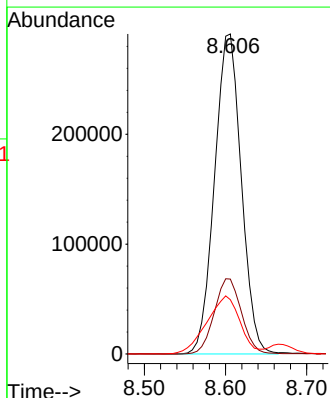
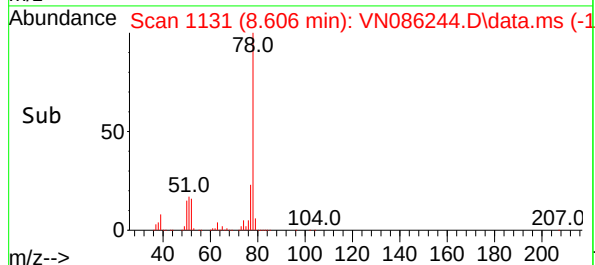
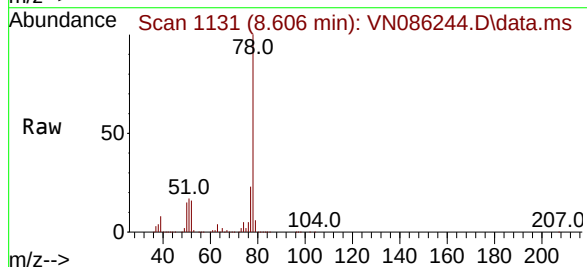
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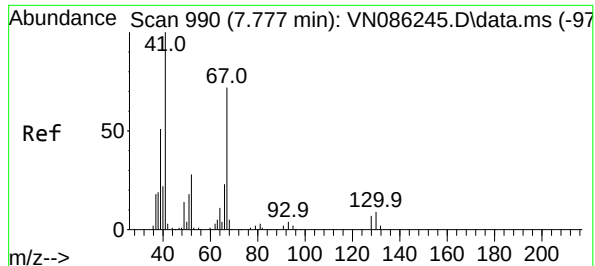
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#34
Benzene
Concen: 54.974 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 78 Resp: 666877
Ion Ratio Lower Upper
78 100
77 23.4 20.0 30.0
51 16.4 12.9 19.3





#35

Methacrylonitrile

Concen: 54.448 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 41 Resp: 12968

Ion Ratio Lower Upper

41 100

39 51.4 25.8 77.3

67 73.1 36.0 108.0

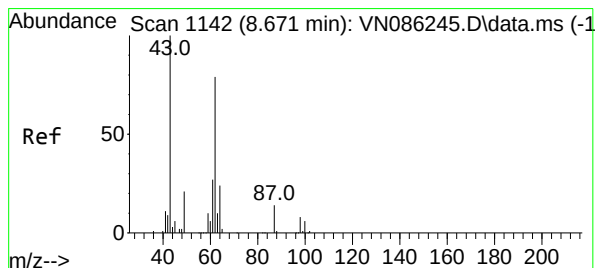
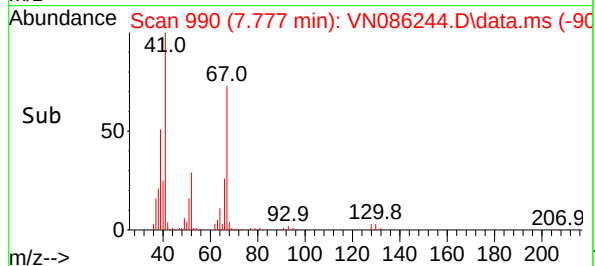
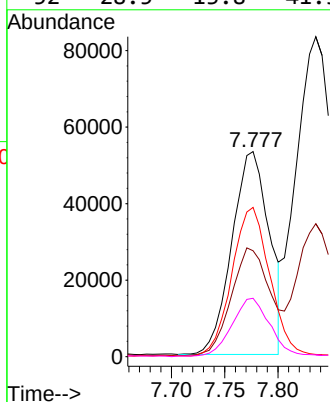
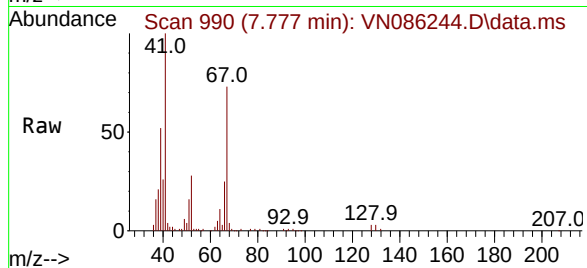
52 28.5 13.8 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#36

1,2-Dichloroethane

Concen: 55.252 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN086244.D

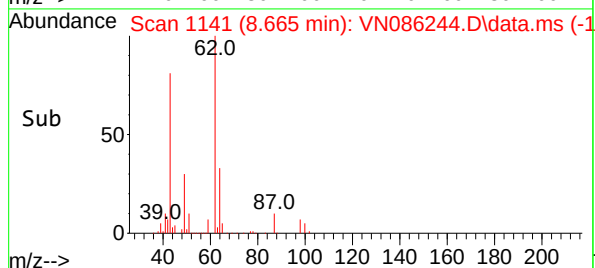
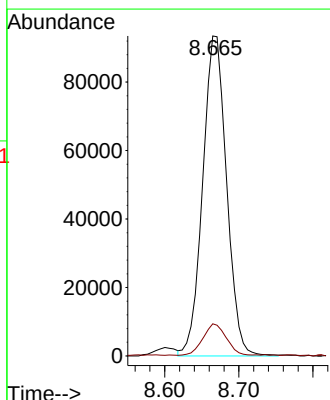
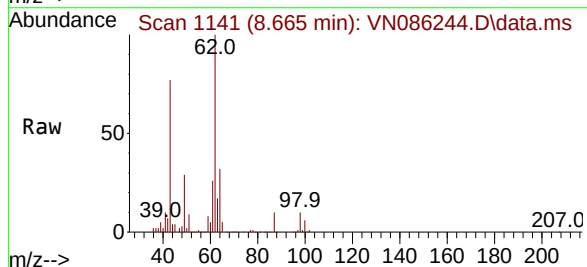
Acq: 11 Apr 2025 11:52

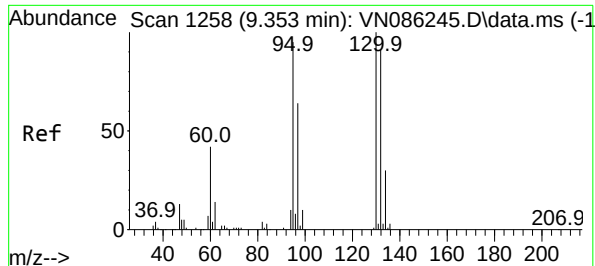
Tgt Ion: 62 Resp: 209738

Ion Ratio Lower Upper

62 100

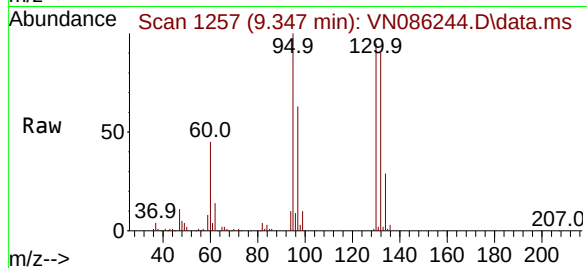
98 9.5 8.6 12.8





#37
Trichloroethene
Concen: 56.109 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

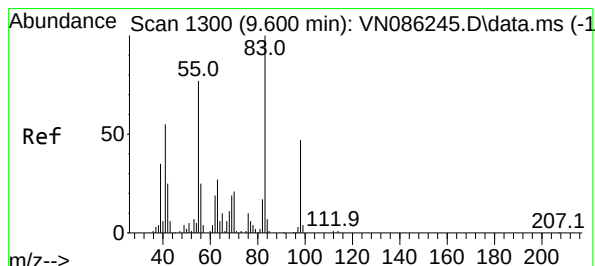
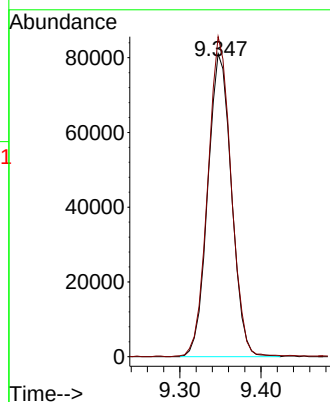
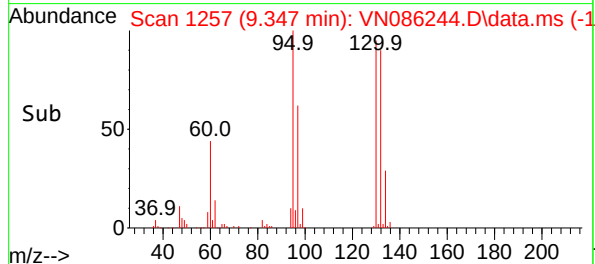
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:130 Resp: 164224
Ion Ratio Lower Upper
130 100
95 105.2 76.4 114.6

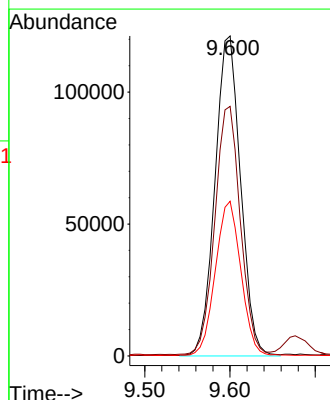
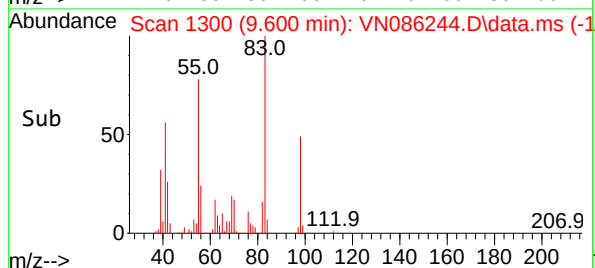
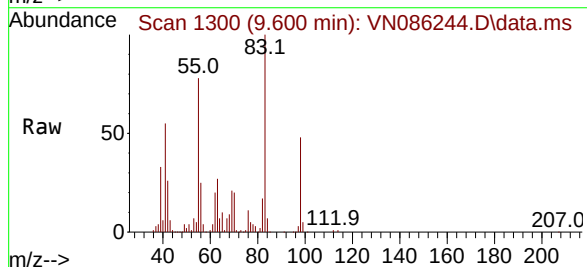
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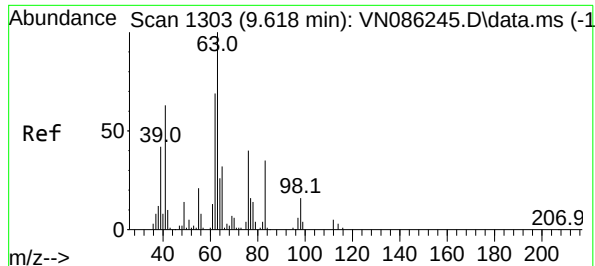
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#38
Methylcyclohexane
Concen: 54.191 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 83 Resp: 253415
Ion Ratio Lower Upper
83 100
55 77.0 38.5 115.5
98 47.8 24.4 73.2





#39

1,2-Dichloropropane

Concen: 55.783 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 63 Resp: 168378

Ion Ratio Lower Upper

63 100

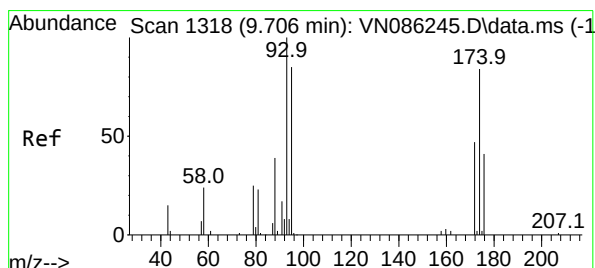
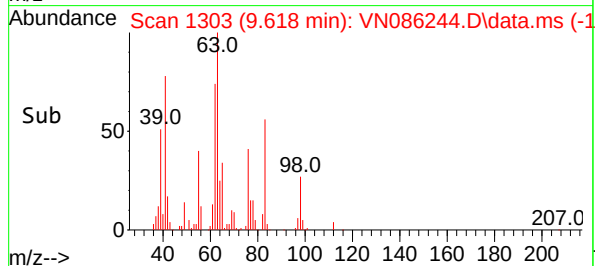
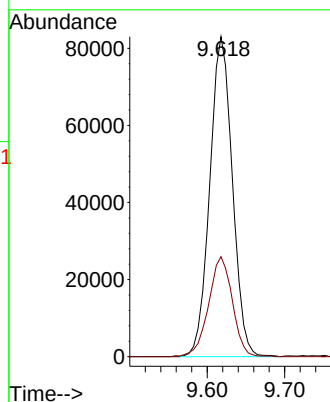
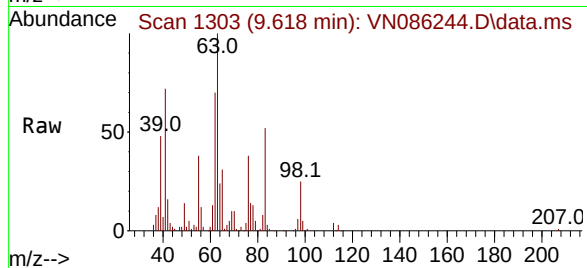
65 31.2 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 54.730 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

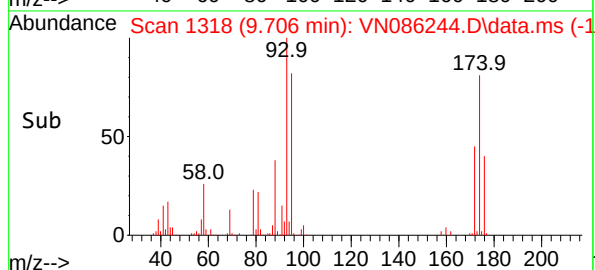
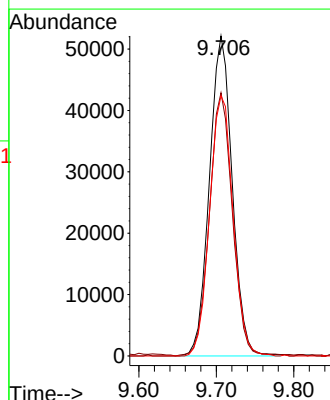
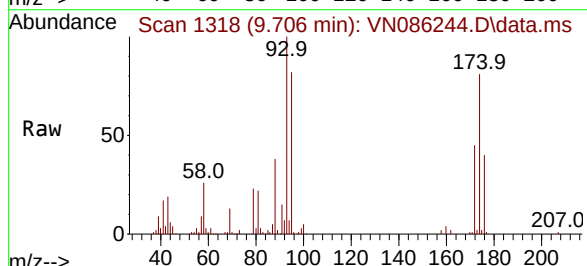
Tgt Ion: 93 Resp: 106697

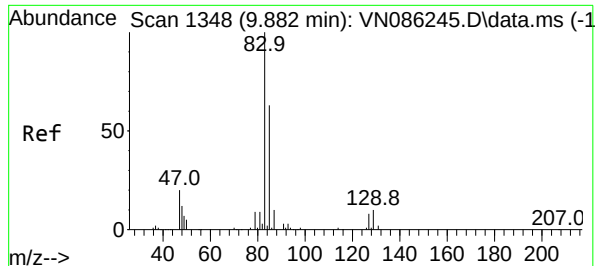
Ion Ratio Lower Upper

93 100

95 82.5 0.0 169.0

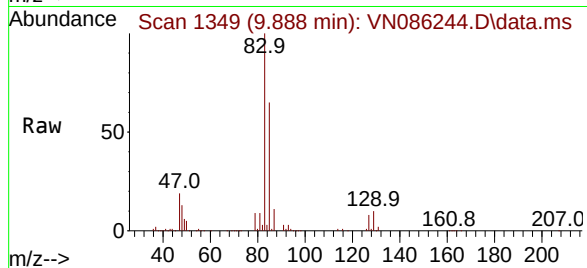
174 83.6 0.0 168.0





#41
Bromodichloromethane
Concen: 53.865 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

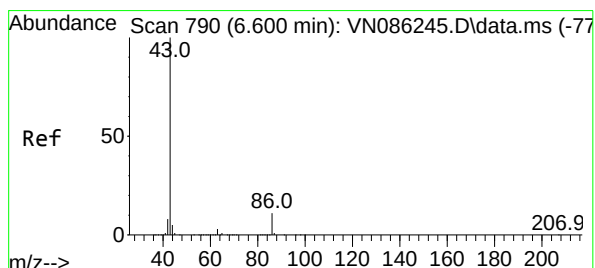
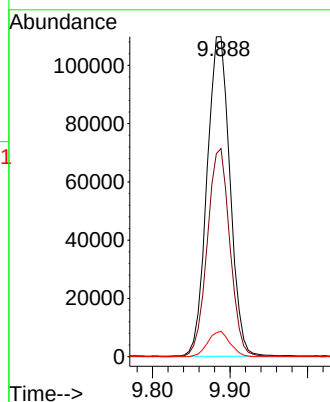
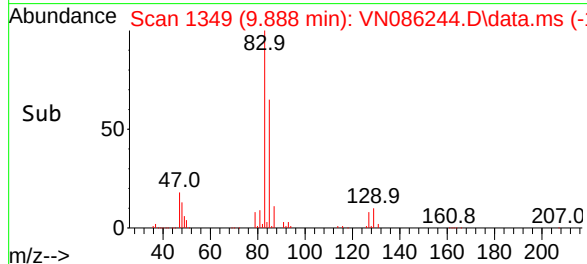
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 83 Resp: 225600
Ion Ratio Lower Upper
83 100
85 65.0 50.2 75.2
127 8.0 6.2 9.4

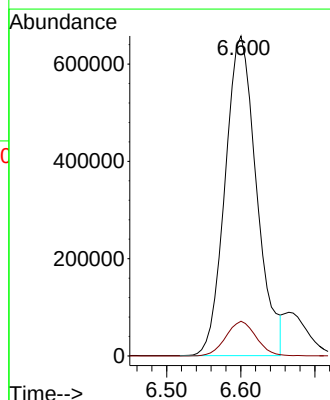
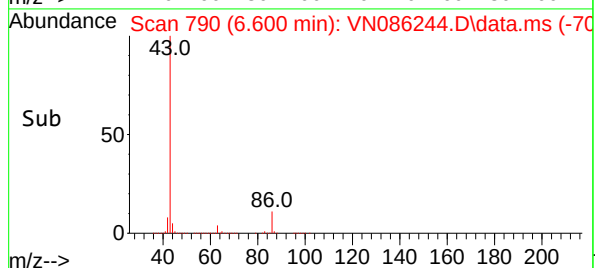
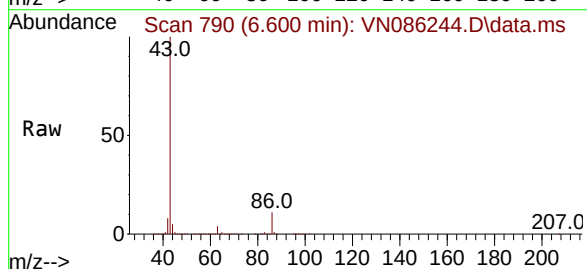
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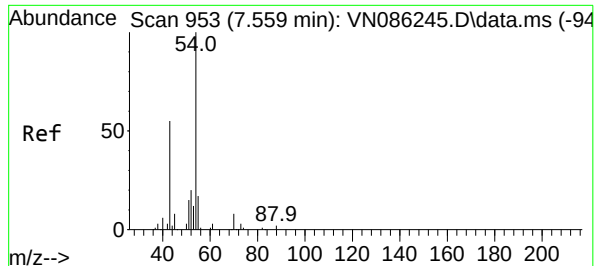
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 269.341 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 43 Resp: 1937093
Ion Ratio Lower Upper
43 100
86 10.5 8.4 12.6





#43

Ethyl Acetate

Concen: 54.775 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 43 Resp: 23343

Ion Ratio Lower Upper

43 100

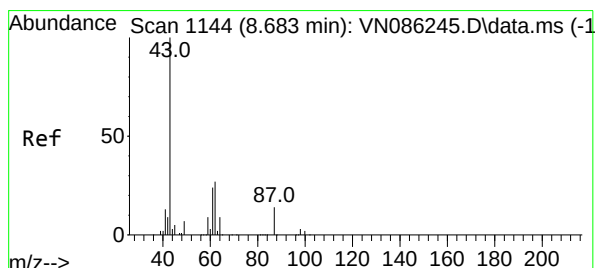
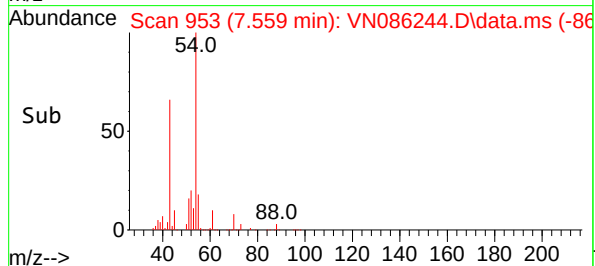
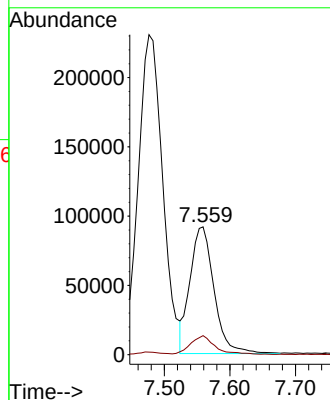
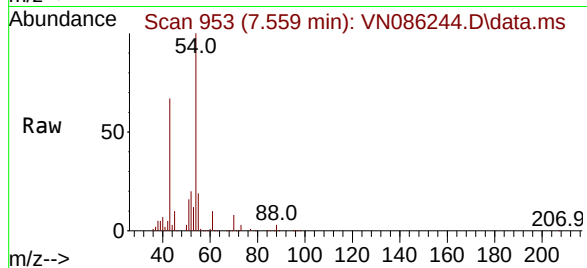
45 14.6 11.2 16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#44

Isopropyl Acetate

Concen: 53.034 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086244.D

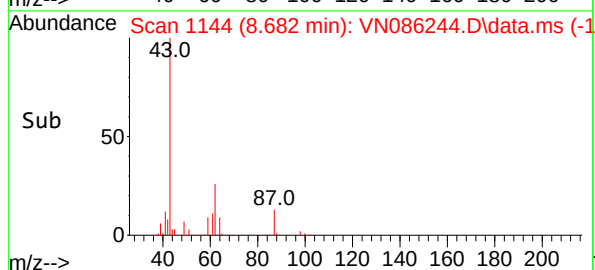
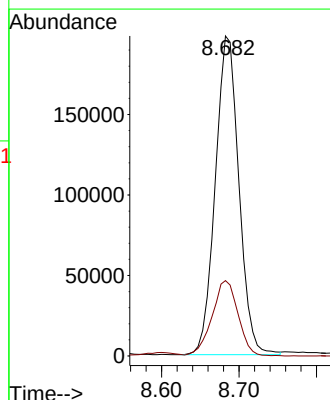
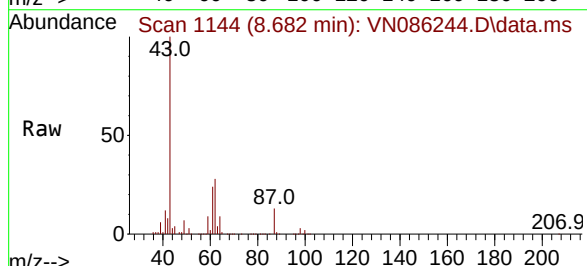
Acq: 11 Apr 2025 11:52

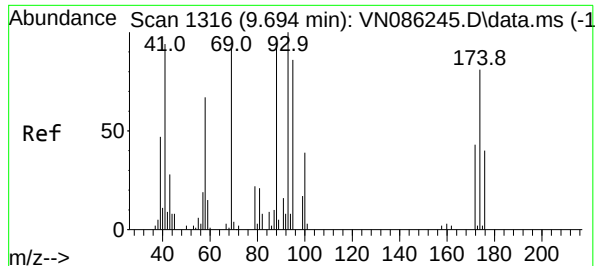
Tgt Ion: 43 Resp: 419280

Ion Ratio Lower Upper

43 100

61 26.1 20.5 30.7





#45

1,4-Dioxane

Concen: 1134.960 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

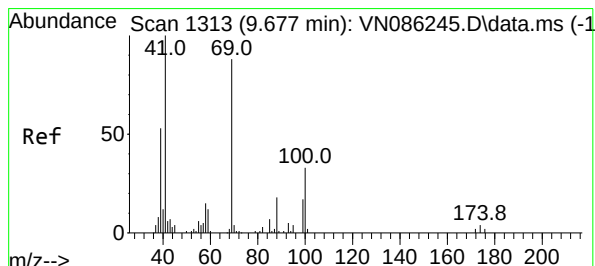
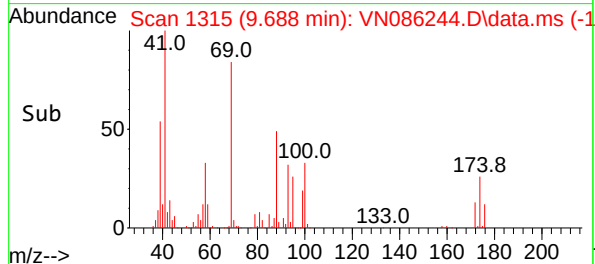
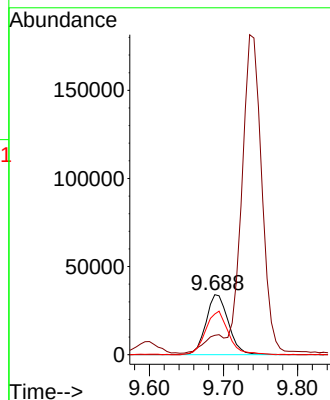
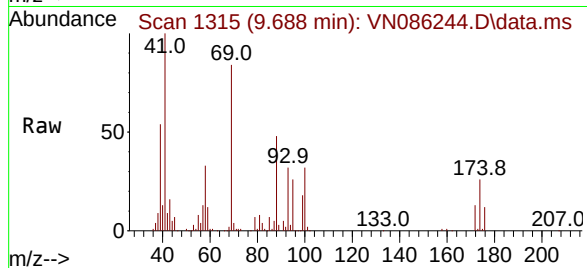
Tgt Ion:	88	Resp:	7135
Ion	Ratio	Lower	Upper
88	100		
43	27.1	14.4	21.6
58	74.0	59.8	89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#46

Methyl methacrylate

Concen: 56.778 ug/l

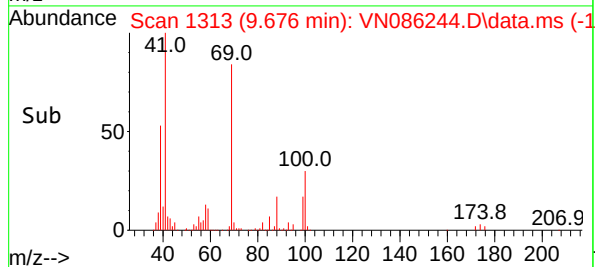
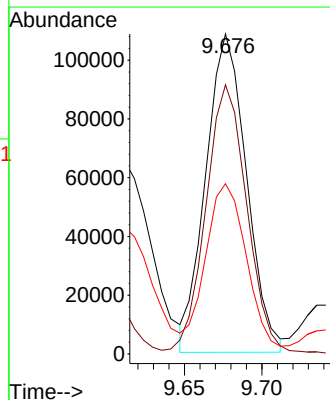
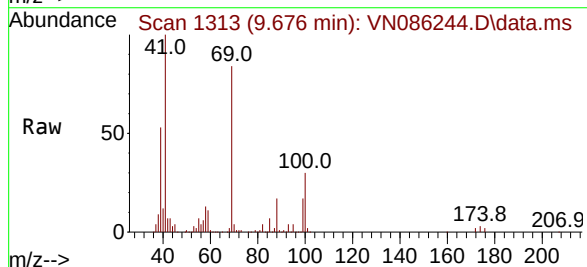
RT: 9.676 min Scan# 1313

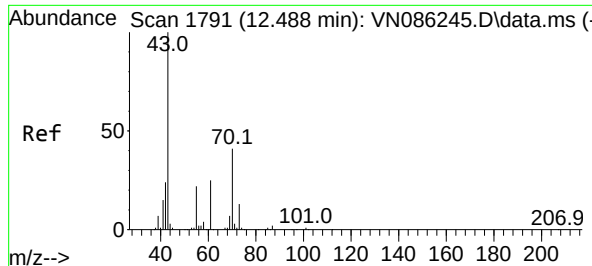
Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Tgt Ion:	41	Resp:	197782
Ion	Ratio	Lower	Upper
41	100		
69	85.6	43.2	129.6
39	53.3	26.4	79.0





#47

n-amy1 Acetate

Concen: 55.417 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 43 Resp: 354004

Ion Ratio Lower Upper

43 100

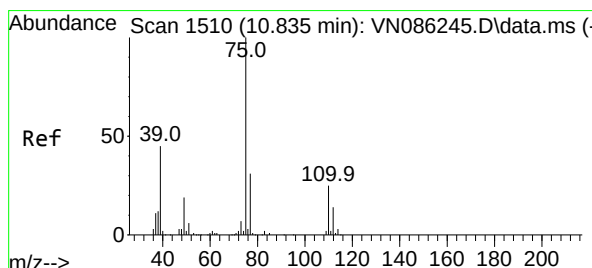
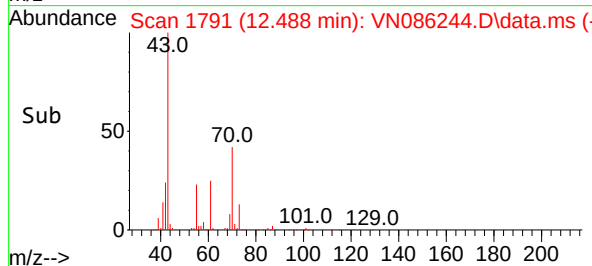
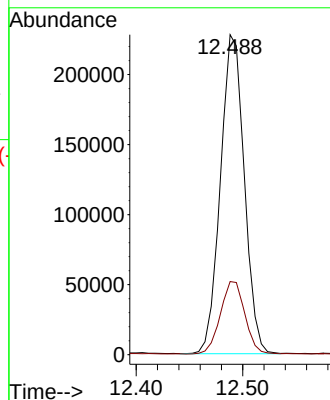
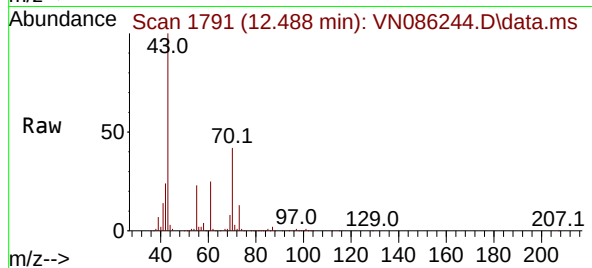
55 23.3 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#48

t-1,3-Dichloropropene

Concen: 55.817 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN086244.D

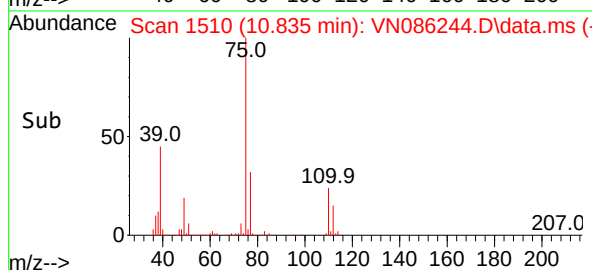
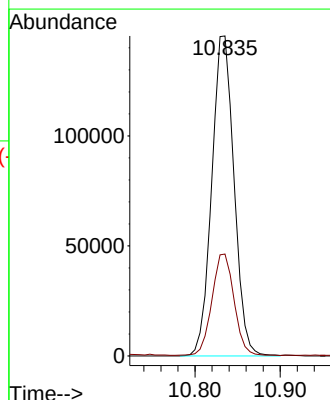
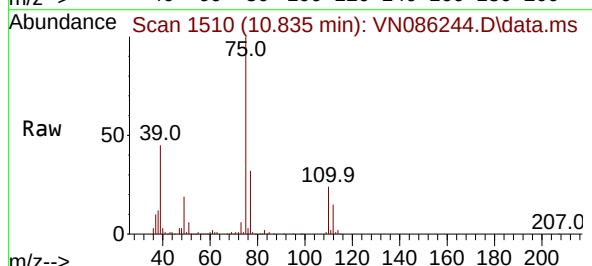
Acq: 11 Apr 2025 11:52

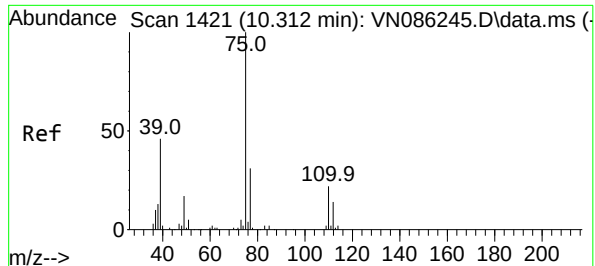
Tgt Ion: 75 Resp: 264279

Ion Ratio Lower Upper

75 100

77 31.7 25.1 37.7





#49

cis-1,3-Dichloropropene

Concen: 55.377 ug/l

RT: 10.306 min Scan# 1420

Delta R.T. -0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 75 Resp: 277500

Ion Ratio Lower Upper

75 100

77 31.9 25.0 37.4

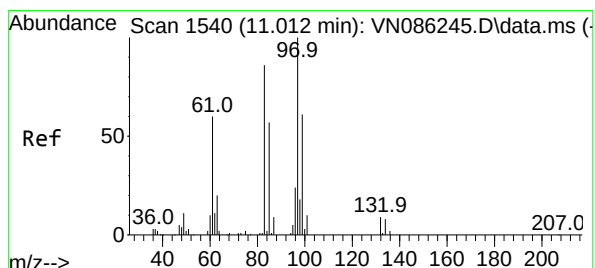
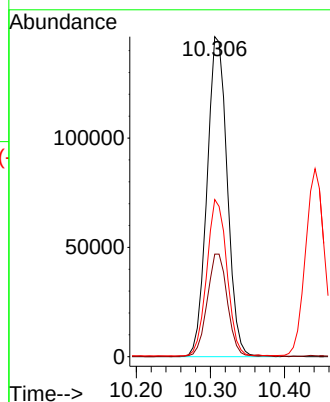
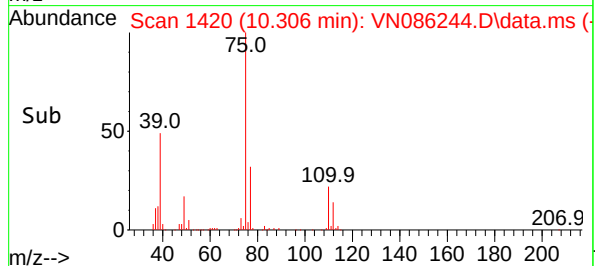
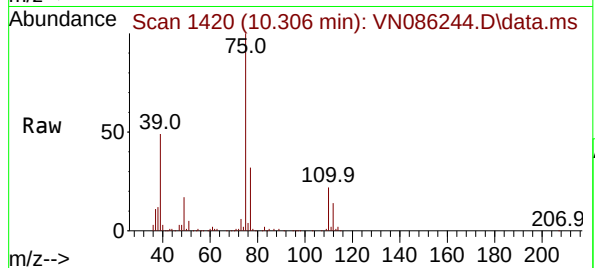
39 48.8 36.7 55.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#50

1,1,2-Trichloroethane

Concen: 54.493 ug/l

RT: 11.012 min Scan# 1540

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Tgt Ion: 97 Resp: 149001

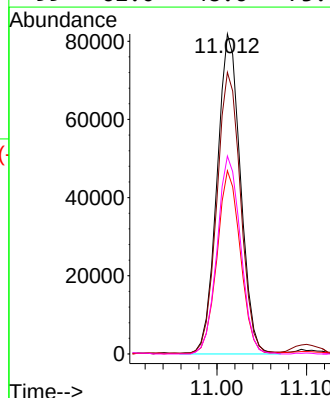
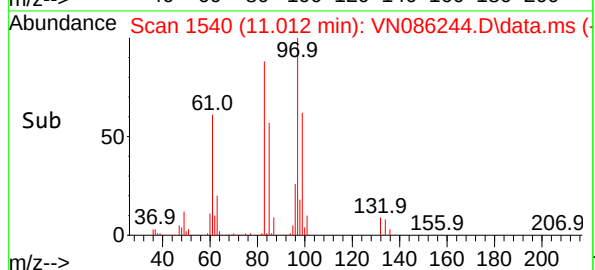
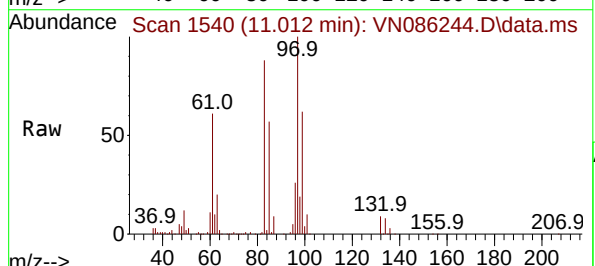
Ion Ratio Lower Upper

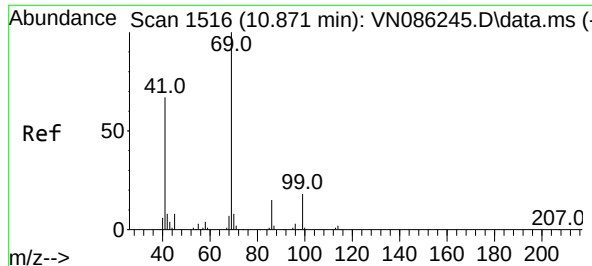
97 100

83 88.0 68.6 103.0

85 57.2 45.9 68.9

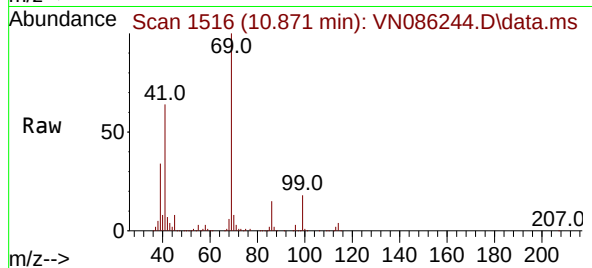
99 62.0 48.6 73.0





#51
Ethyl methacrylate
Concen: 55.717 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

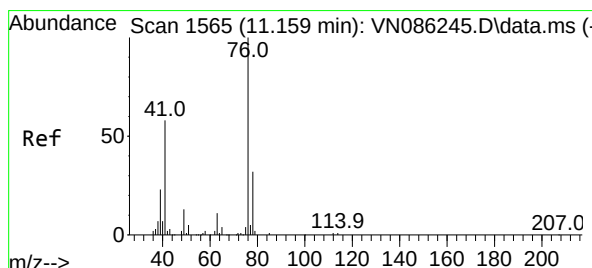
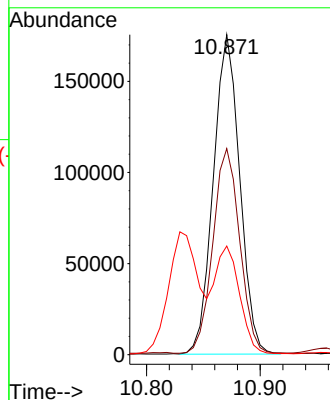
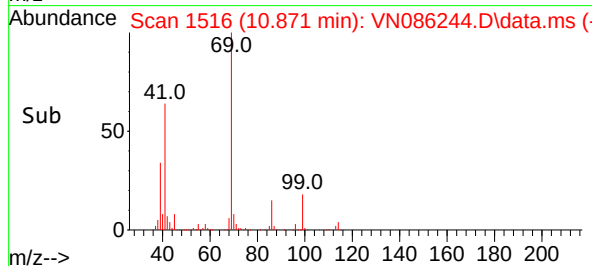
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 69 Resp: 283112
Ion Ratio Lower Upper
69 100
41 64.1 33.6 100.6
39 33.6 17.8 53.4

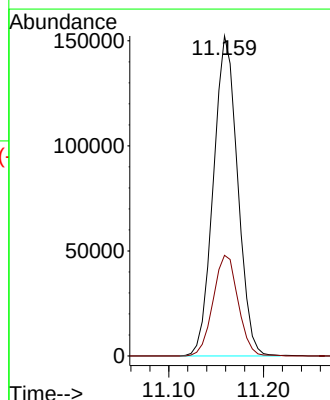
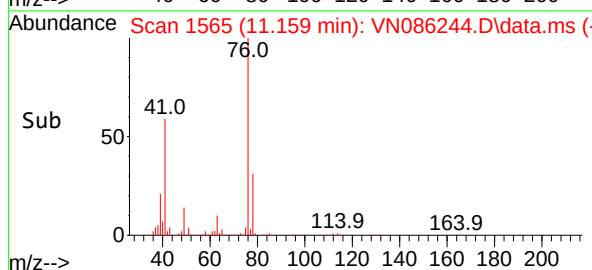
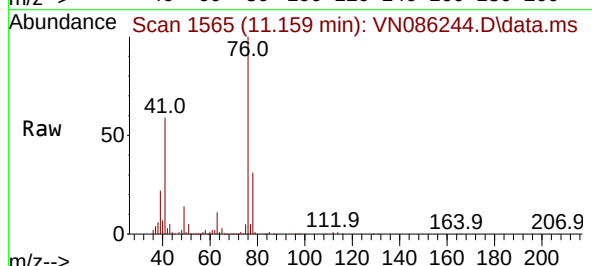
Manual Integrations
APPROVED

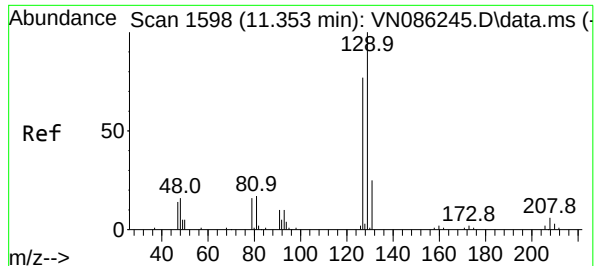
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 55.609 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

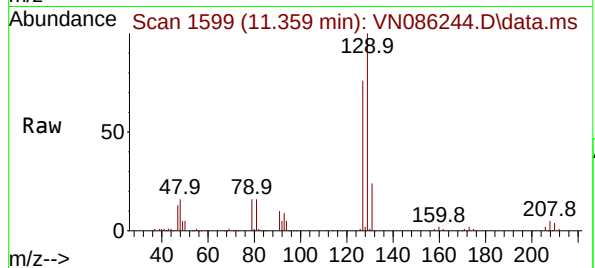
Tgt Ion: 76 Resp: 271010
Ion Ratio Lower Upper
76 100
78 32.4 0.0 64.6





#53
Dibromochloromethane
Concen: 55.616 ug/l
RT: 11.359 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

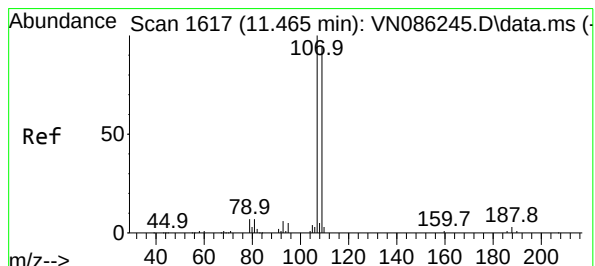
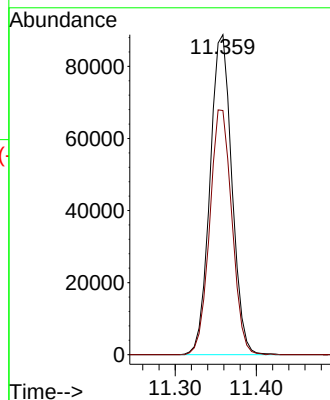
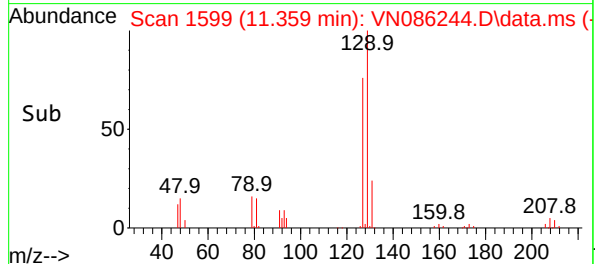
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



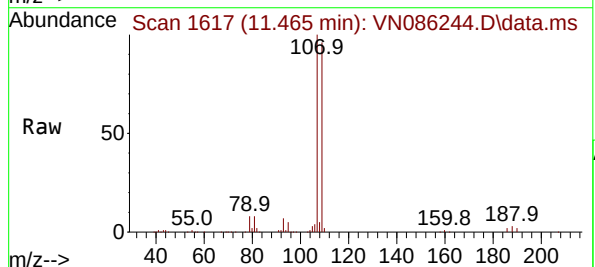
Tgt Ion:129 Resp: 16634
Ion Ratio Lower Upper
129 100
127 77.4 38.5 115.5

Manual Integrations
APPROVED

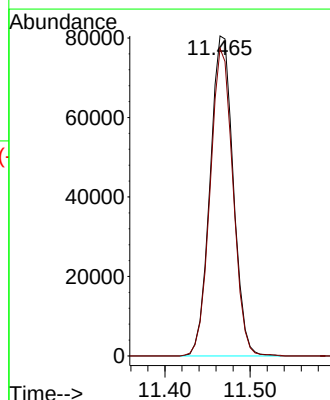
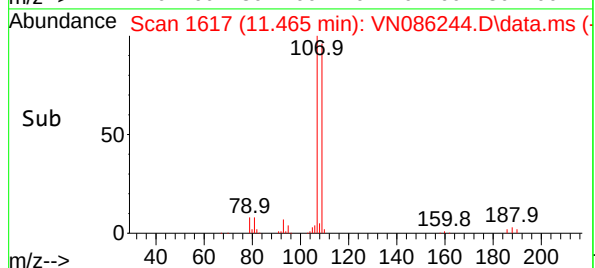
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

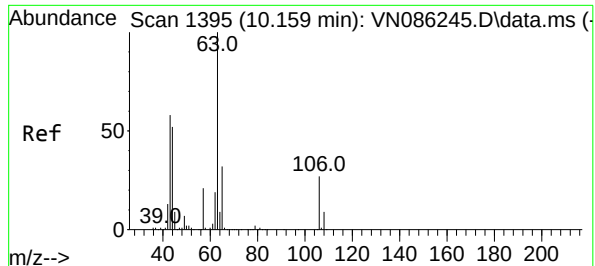


#54
1,2-Dibromoethane
Concen: 55.141 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52



Tgt Ion:107 Resp: 152197
Ion Ratio Lower Upper
107 100
109 94.4 75.2 112.8





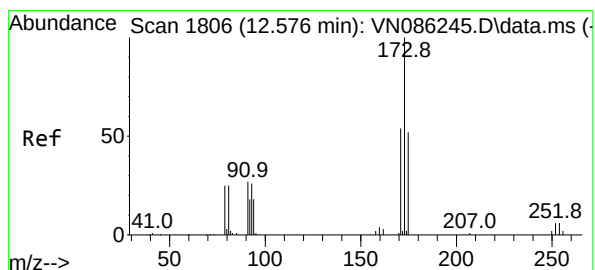
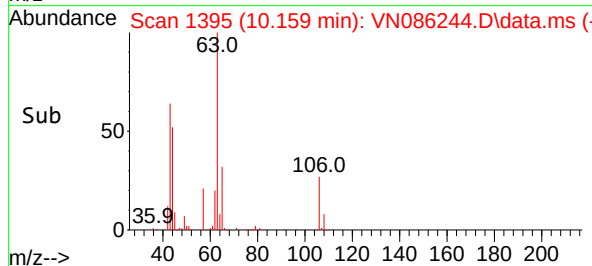
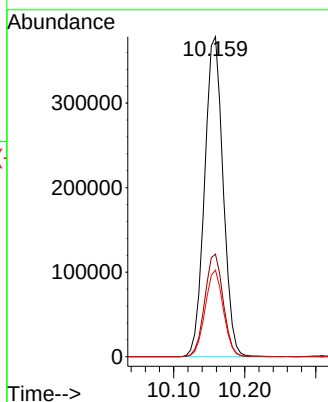
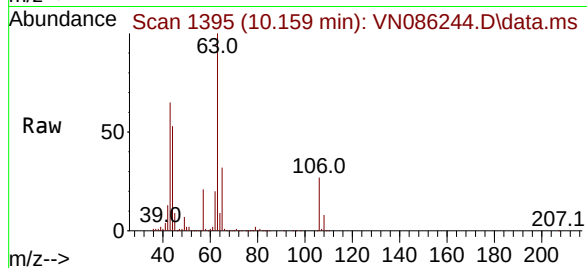
#55
2-Chloroethyl vinyl ether
Concen: 357.238 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 63 Resp: 685910
Ion Ratio Lower Upper
63 100
65 31.9 25.8 38.8
106 26.7 21.8 32.8

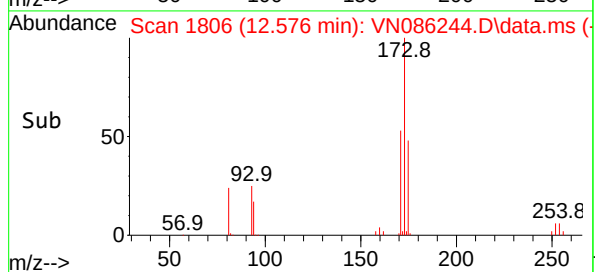
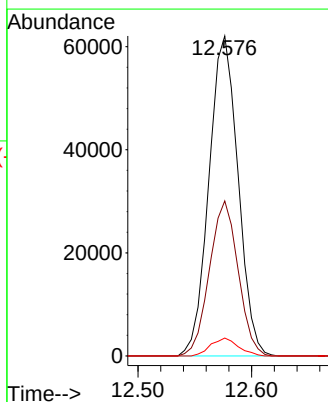
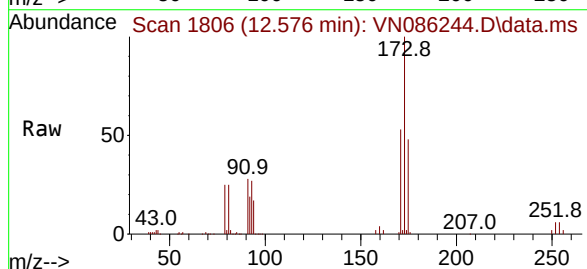
Manual Integrations
APPROVED

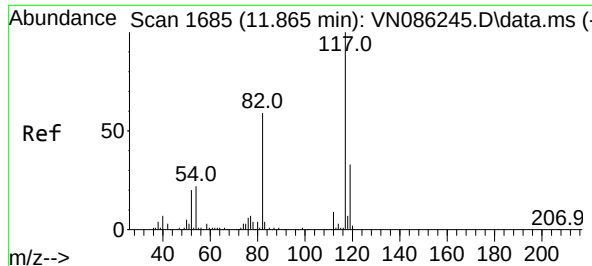
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#56
Bromoform
Concen: 56.534 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:173 Resp: 110623
Ion Ratio Lower Upper
173 100
175 47.7 38.2 57.4
254 5.3 4.5 6.7





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:117 Resp: 19184

Ion Ratio Lower Upper

117 100

82 58.1 47.3 70.9

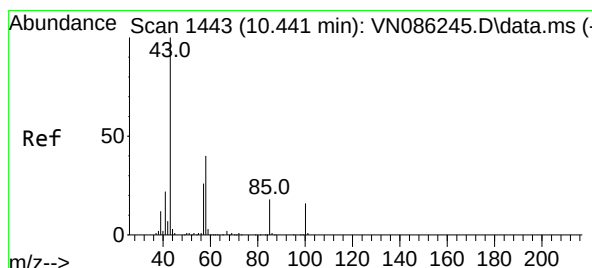
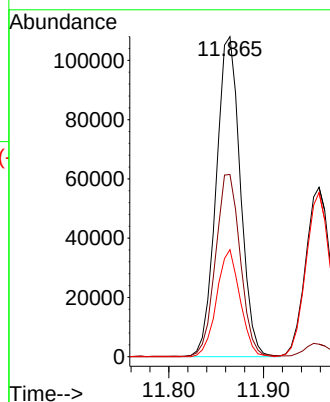
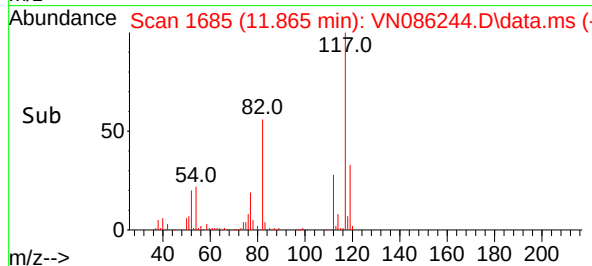
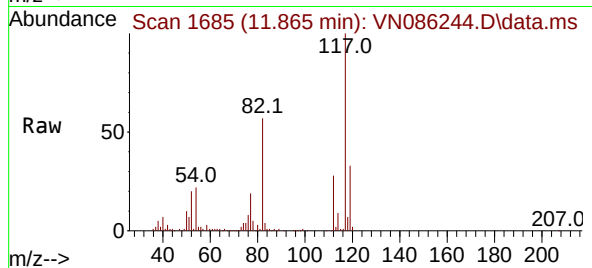
119 32.4 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#58

4-Methyl-2-Pentanone

Concen: 278.421 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

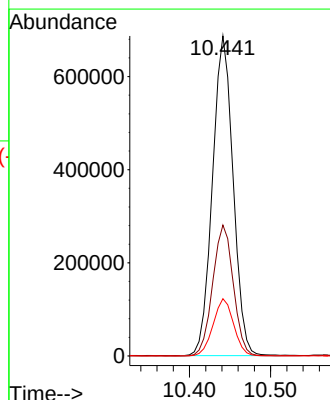
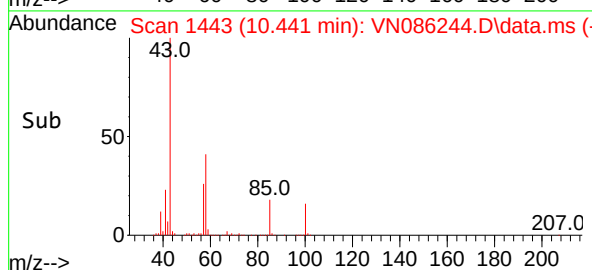
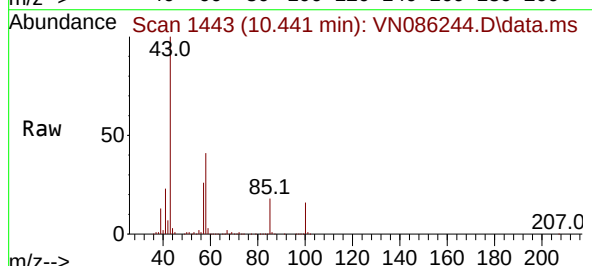
Tgt Ion: 43 Resp: 1212140

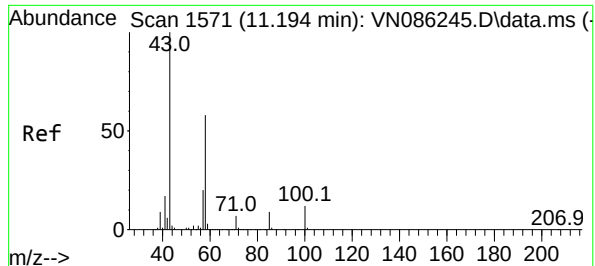
Ion Ratio Lower Upper

43 100

58 41.0 32.5 48.7

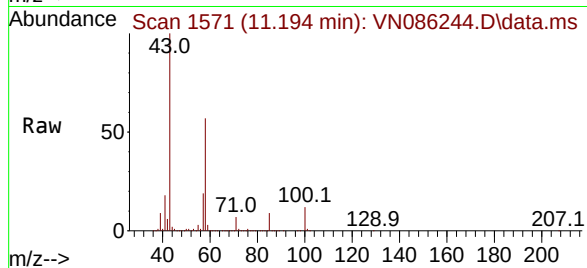
85 17.8 14.4 21.6





#59
2-Hexanone
Concen: 281.386 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

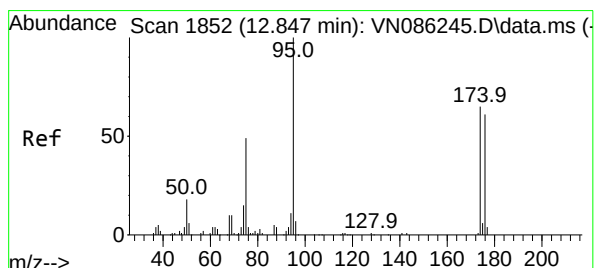
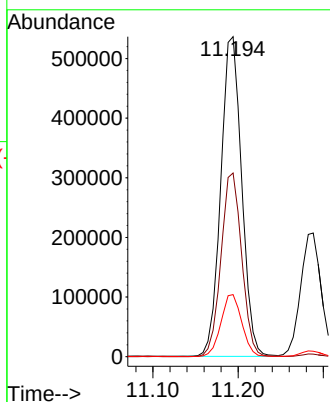
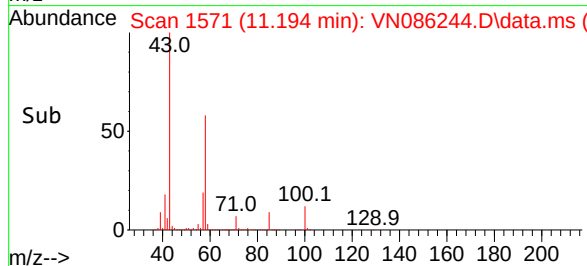
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion: 43 Resp: 912200
Ion Ratio Lower Upper
43 100
58 57.0 45.3 67.9
57 19.4 15.8 23.6

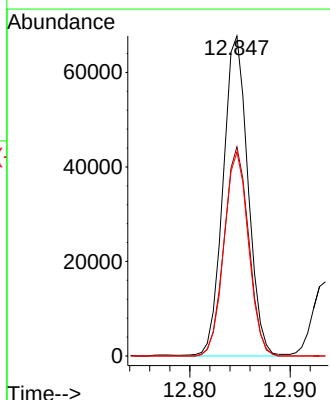
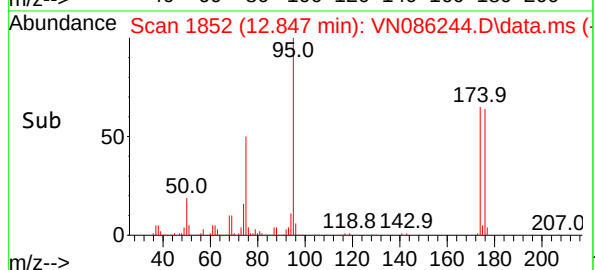
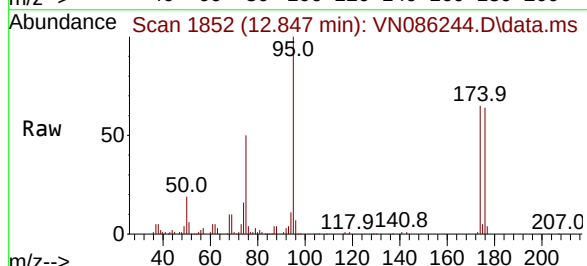
Manual Integrations
APPROVED

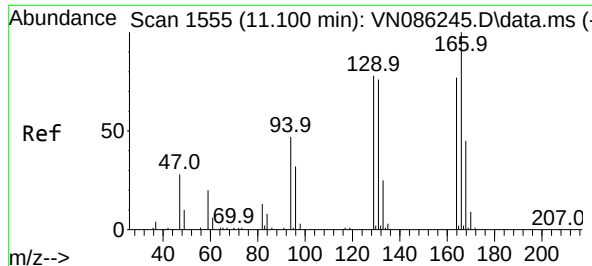
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#60
4-Bromofluorobenzene
Concen: 30.469 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

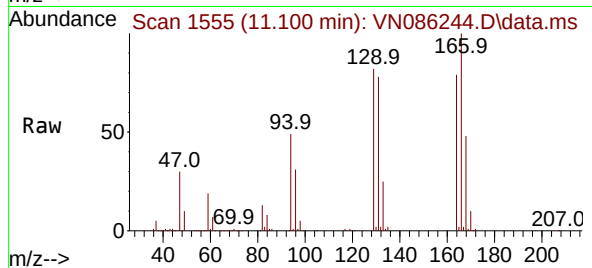
Tgt Ion: 95 Resp: 116379
Ion Ratio Lower Upper
95 100
174 64.5 52.7 79.1
176 62.7 49.8 74.8





#61
Tetrachloroethene
Concen: 56.555 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

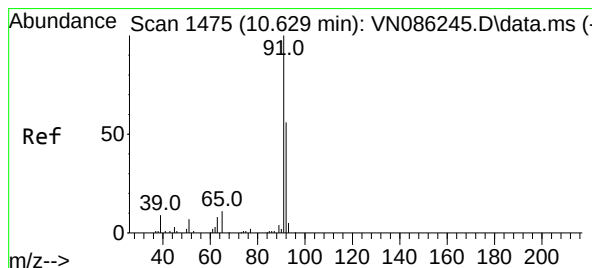
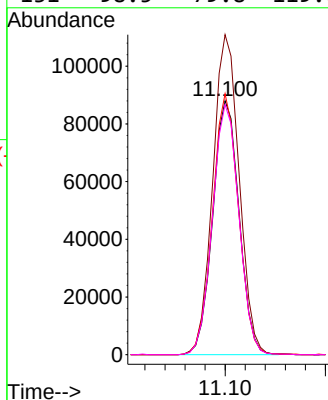
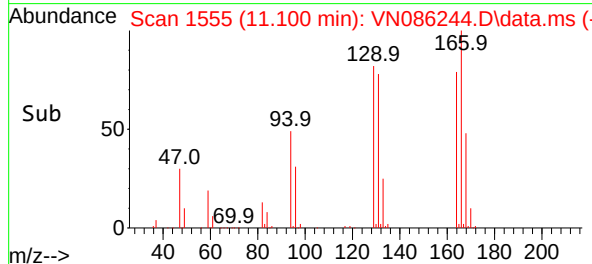
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:164 Resp: 160227
Ion Ratio Lower Upper
164 100
166 126.0 104.5 156.7
129 102.7 81.7 122.5
131 98.5 79.8 119.6

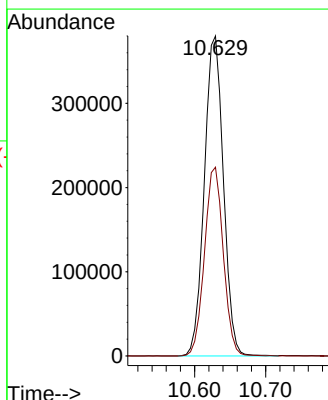
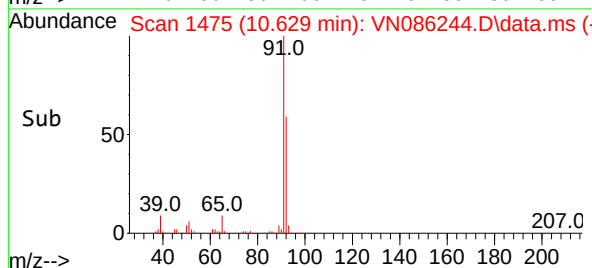
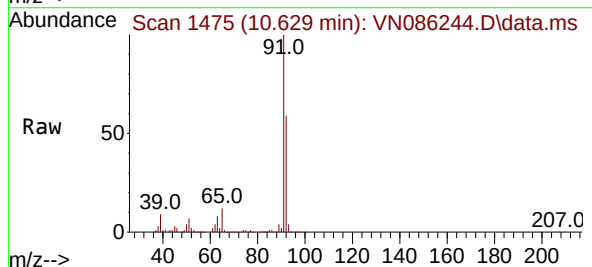
Manual Integrations
APPROVED

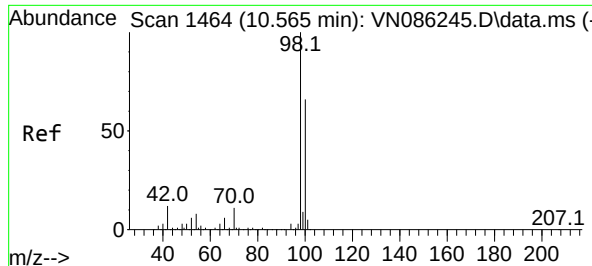
Reviewed By :John Carbone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 55.140 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

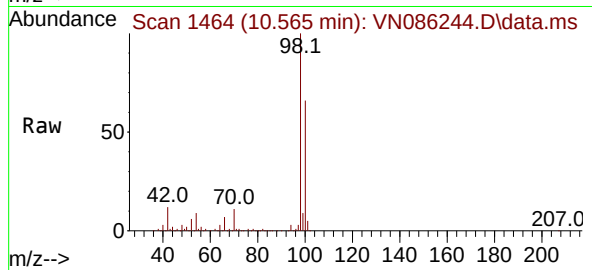
Tgt Ion: 91 Resp: 709533
Ion Ratio Lower Upper
91 100
92 58.3 46.8 70.2





#63
Toluene-d8
Concen: 29.660 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

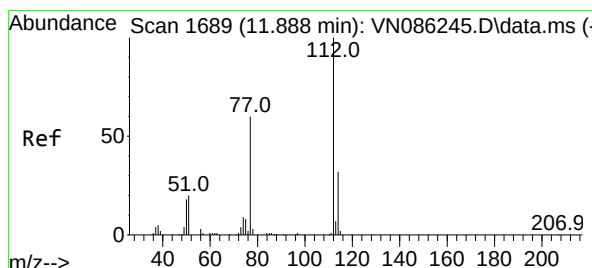
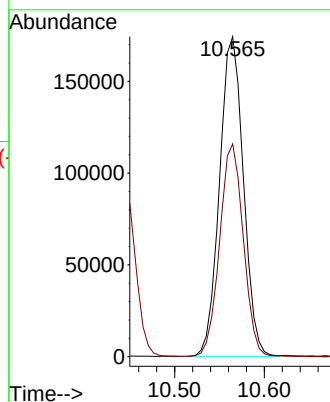
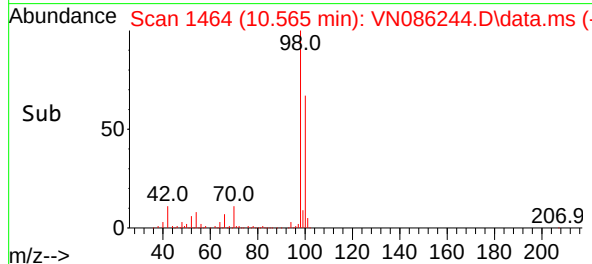
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion: 98 Resp: 32124
Ion Ratio Lower Upper
98 100
100 66.1 52.3 78.5

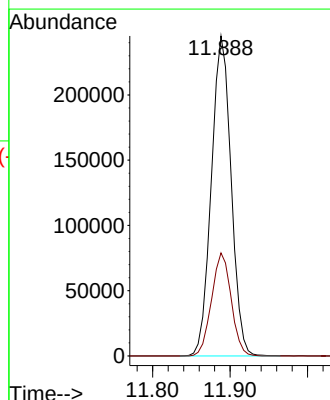
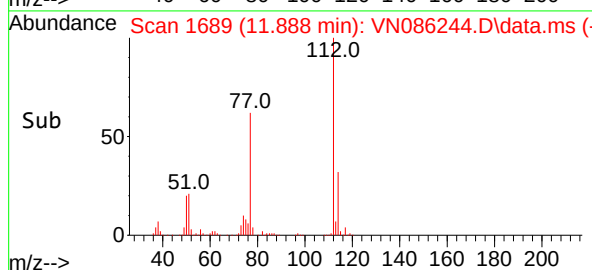
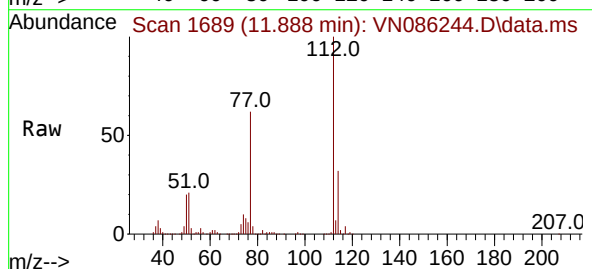
Manual Integrations
APPROVED

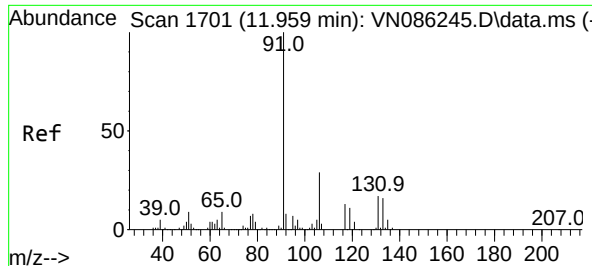
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 55.211 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

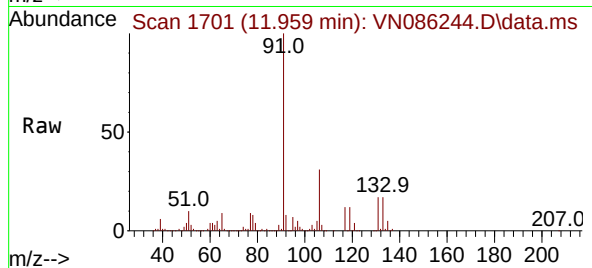
Tgt Ion:112 Resp: 434051
Ion Ratio Lower Upper
112 100
114 32.2 25.8 38.6





#65
1,1,1,2-Tetrachloroethane
Concen: 56.068 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

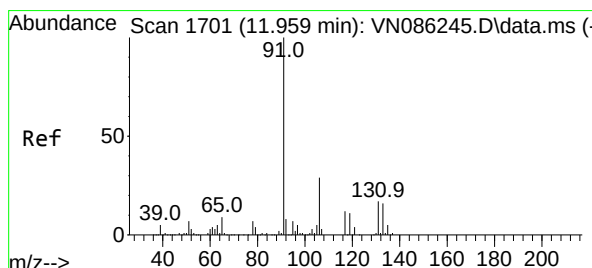
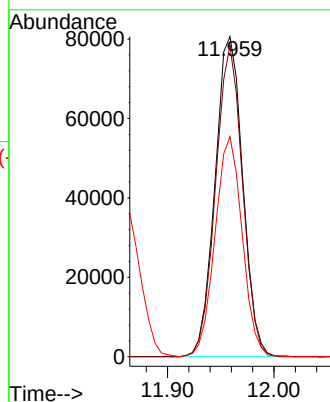
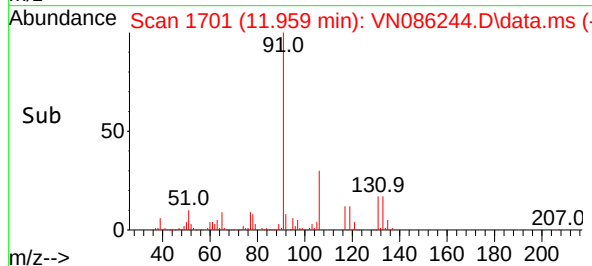
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:131 Resp: 145468
Ion Ratio Lower Upper
131 100
133 94.4 0.0 190.4
119 67.5 0.0 135.6

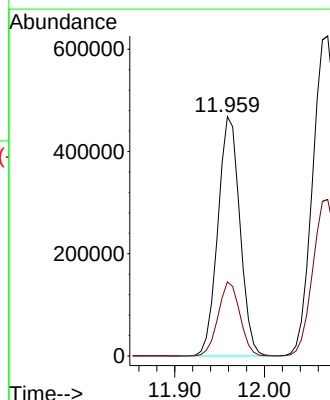
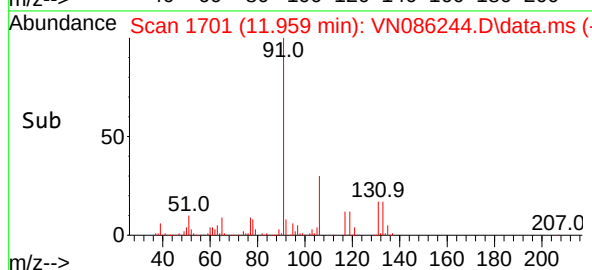
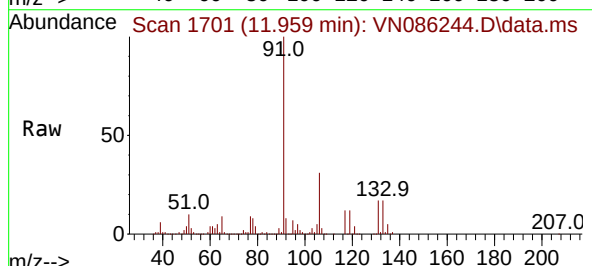
Manual Integrations
APPROVED

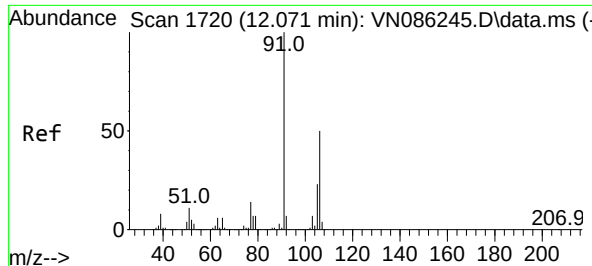
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#66
Ethyl Benzene
Concen: 55.917 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

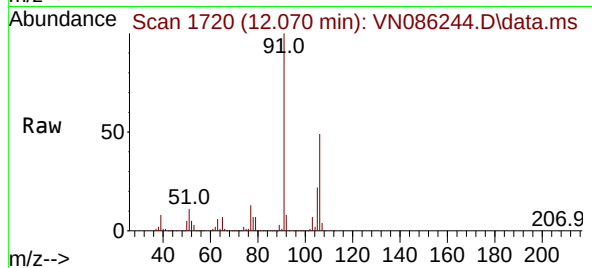
Tgt Ion: 91 Resp: 797966
Ion Ratio Lower Upper
91 100
106 30.9 23.4 35.0





#67
m/p-Xylenes
Concen: 113.164 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

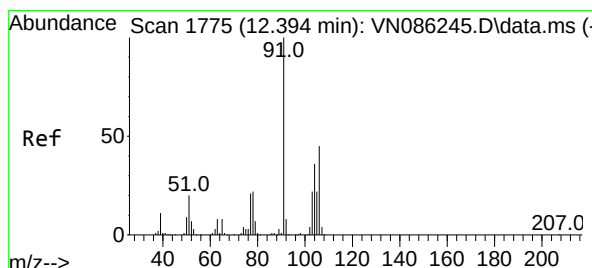
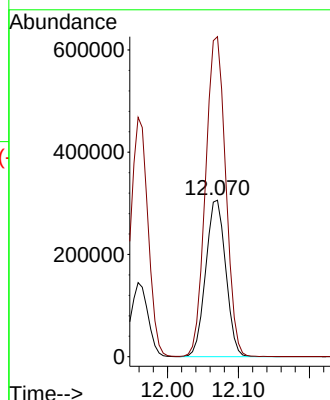
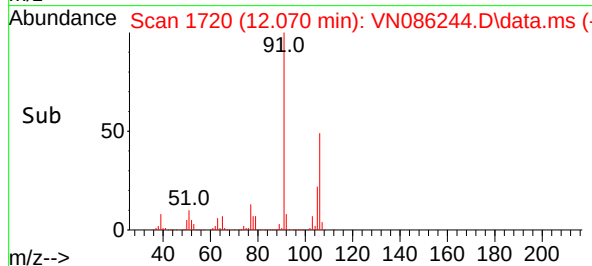
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:106 Resp: 600484
Ion Ratio Lower Upper
106 100
91 205.7 164.5 246.7

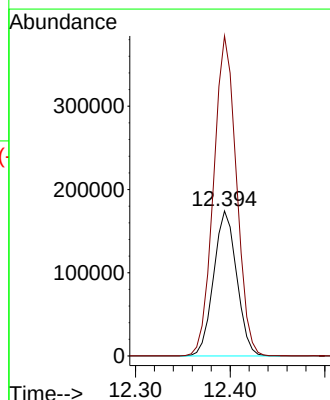
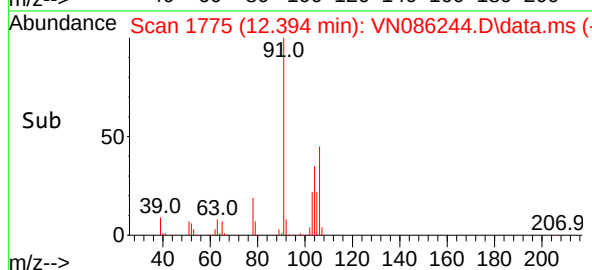
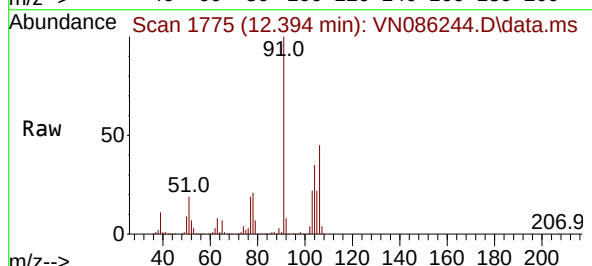
Manual Integrations
APPROVED

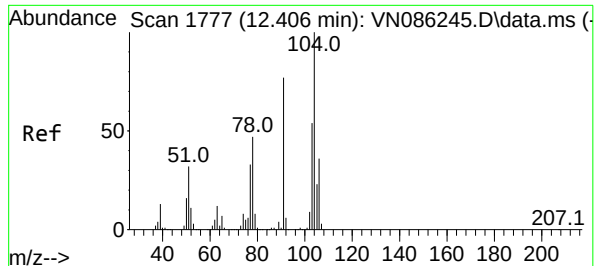
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
o-Xylene
Concen: 56.428 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

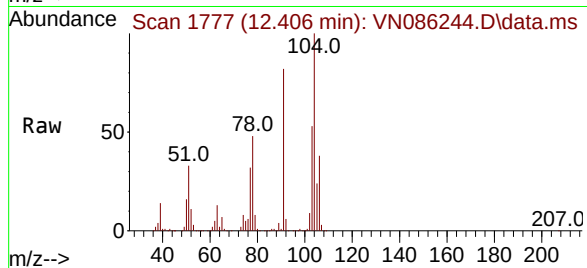
Tgt Ion:106 Resp: 294512
Ion Ratio Lower Upper
106 100
91 218.4 109.8 329.4





#69
Styrene
Concen: 56.790 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

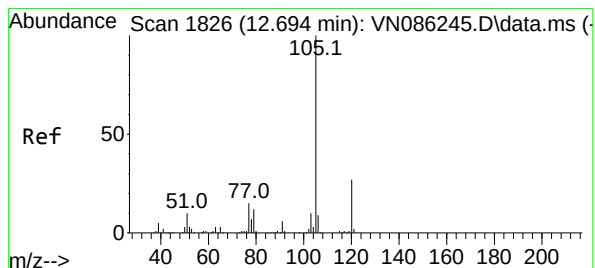
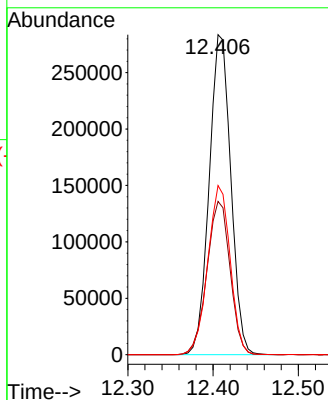
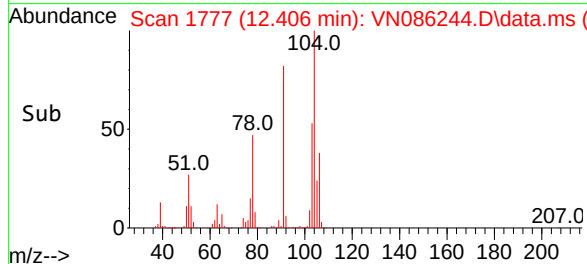
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050



Tgt Ion:104 Resp: 499880
Ion Ratio Lower Upper
104 100
78 51.3 41.4 62.0
103 54.8 44.2 66.4

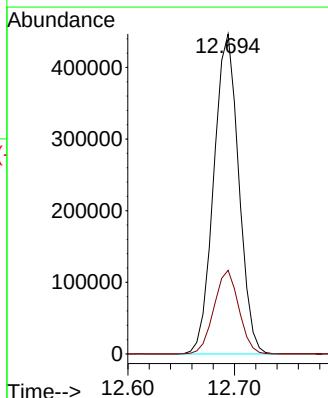
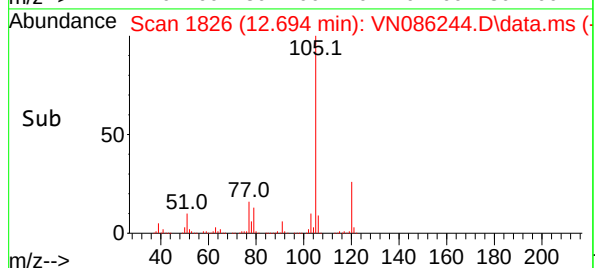
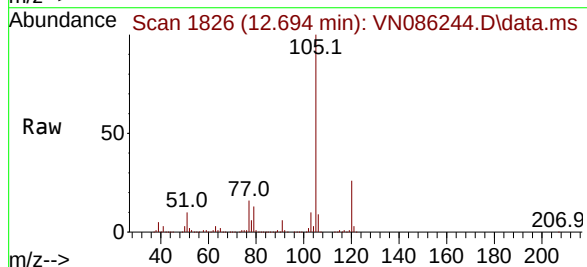
Manual Integrations
APPROVED

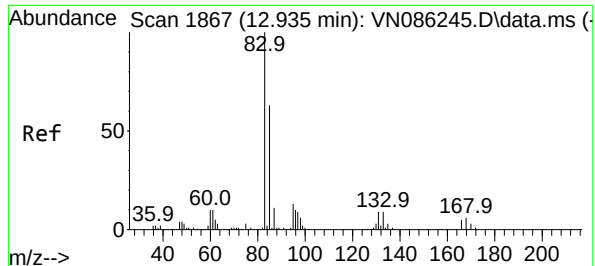
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#70
Isopropylbenzene
Concen: 56.511 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:105 Resp: 727241
Ion Ratio Lower Upper
105 100
120 26.0 18.3 34.1





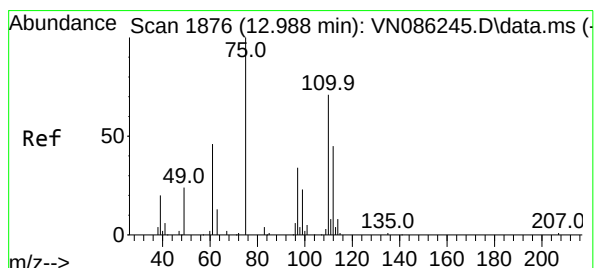
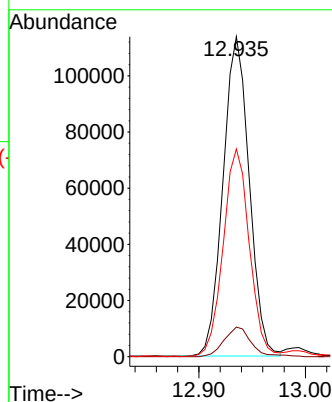
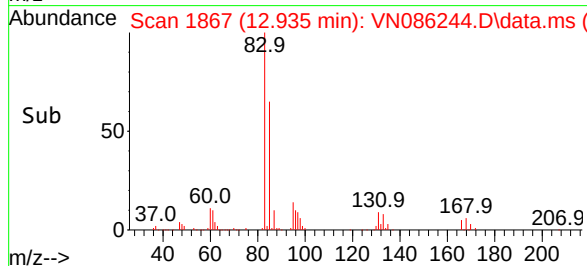
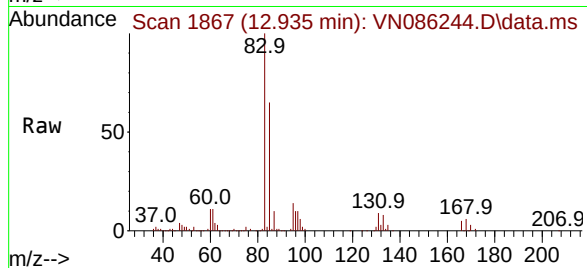
#71
1,1,2,2-Tetrachloroethane
Concen: 53.052 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion: 83 Resp: 19432
Ion Ratio Lower Upper
83 100
131 9.6 4.8 14.3
85 65.0 32.3 96.8

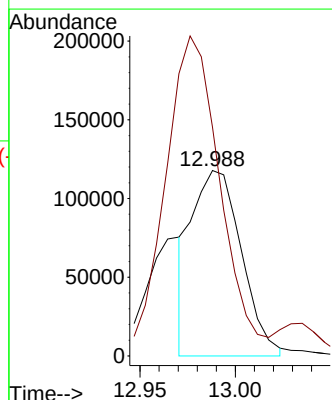
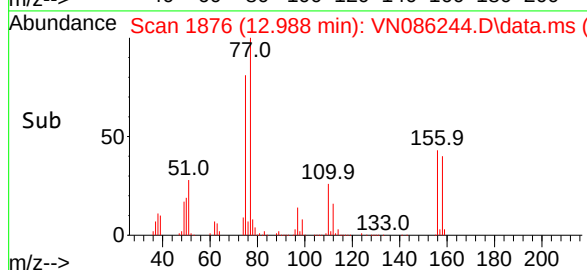
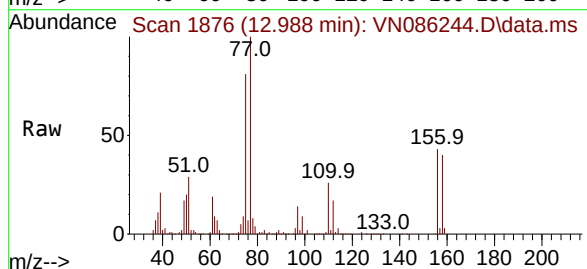
Manual Integrations
APPROVED

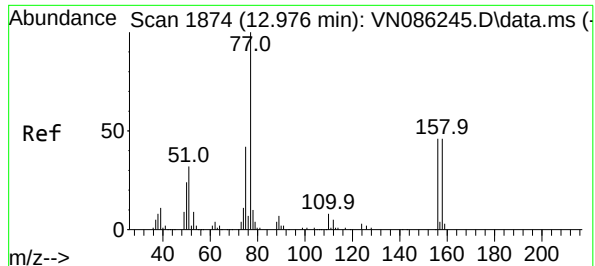
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#72
1,2,3-Trichloropropane
Concen: 40.824 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

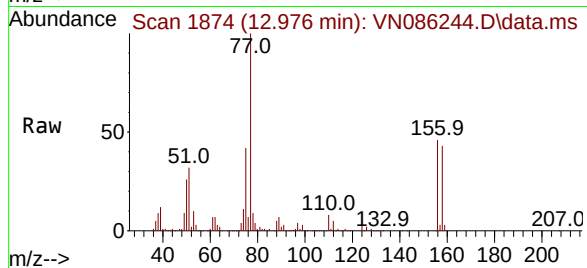
Tgt Ion: 75 Resp: 211703
Ion Ratio Lower Upper
75 100
77 193.1 0.0 380.0





#73
Bromobenzene
Concen: 56.588 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

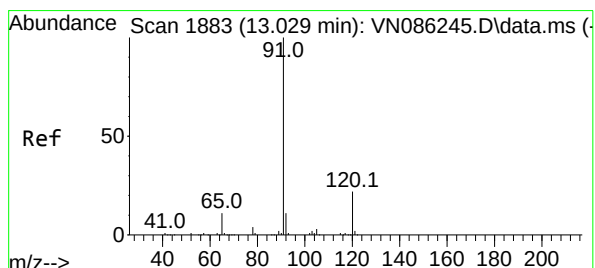
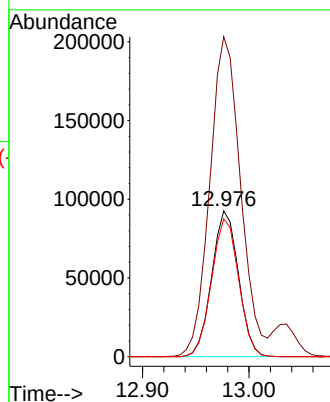
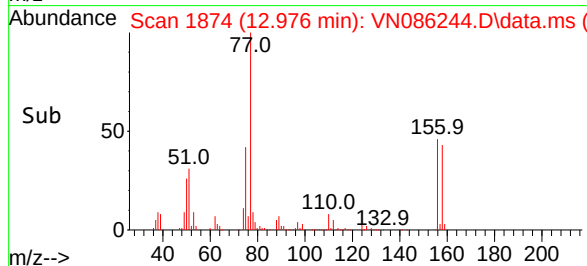
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



Tgt Ion:156 Resp: 161329
Ion Ratio Lower Upper
156 100
77 253.4 0.0 505.2
158 95.7 0.0 195.0

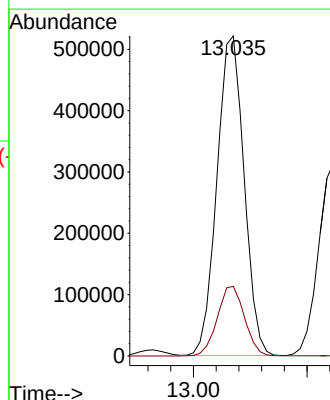
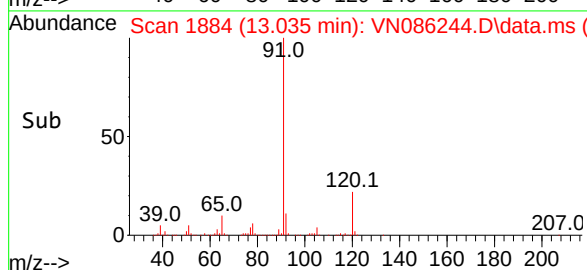
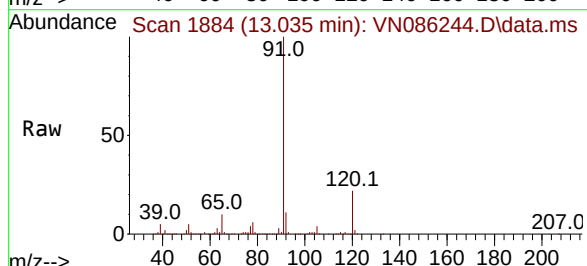
Manual Integrations
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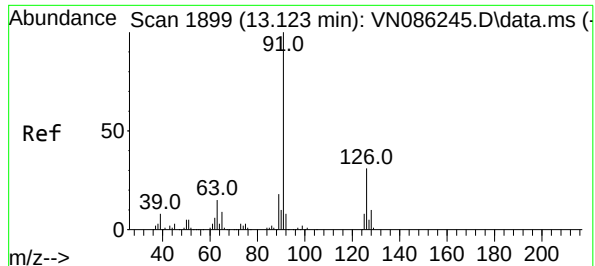
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#74
n-propylbenzene
Concen: 56.817 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion: 91 Resp: 865912
Ion Ratio Lower Upper
91 100
120 21.8 0.0 44.0





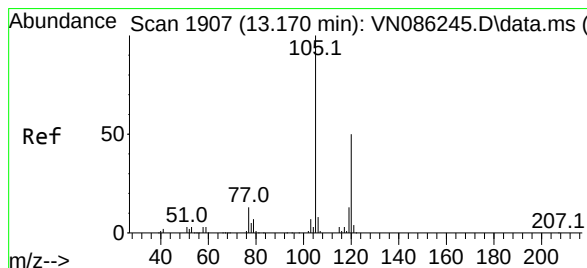
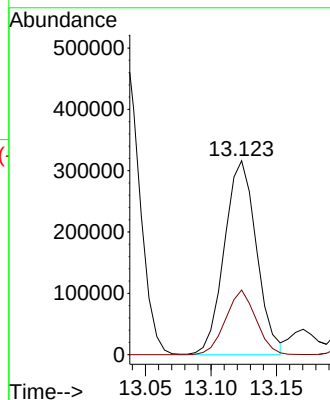
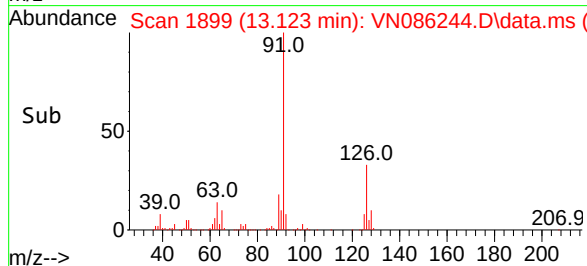
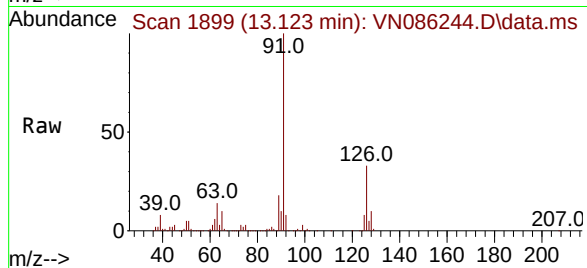
#75
2-Chlorotoluene
Concen: 56.468 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion: 91 Resp: 539350
Ion Ratio Lower Upper
91 100
126 31.5 0.0 63.4

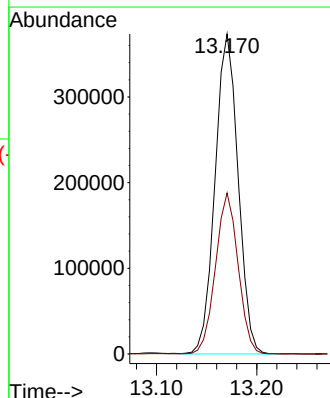
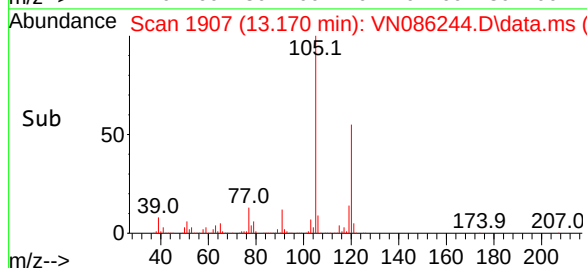
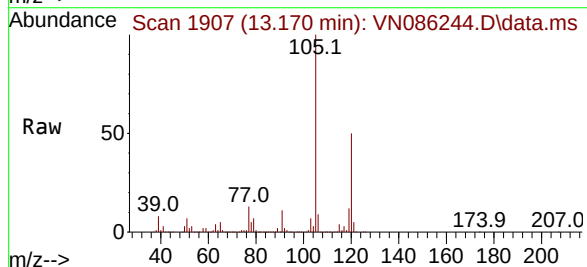
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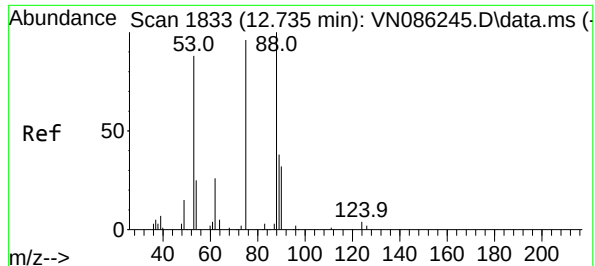
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 56.398 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:105 Resp: 596201
Ion Ratio Lower Upper
105 100
120 49.3 0.0 98.0





#77

t-1,4-Dichloro-2-butene

Concen: 56.970 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC050

Tgt Ion: 75 Resp: 100158

Ion Ratio Lower Upper

75 100

53 84.3 46.4 139.2

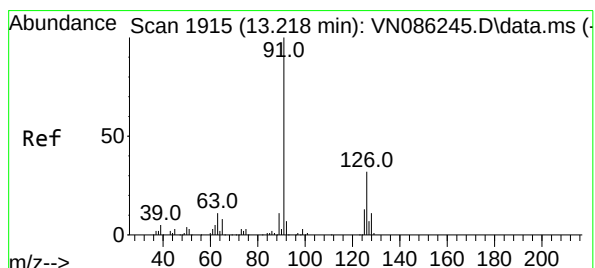
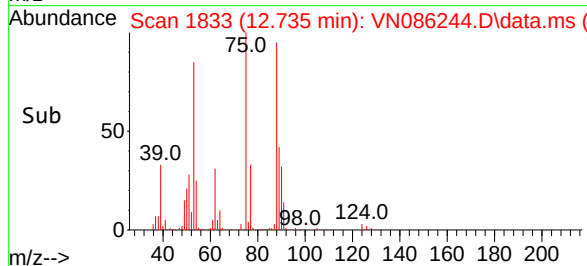
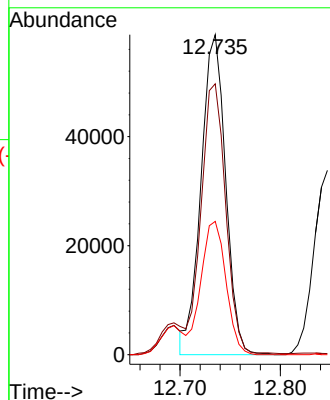
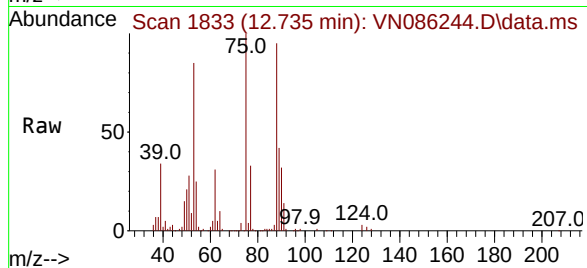
89 41.7 22.5 67.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#78

4-Chlorotoluene

Concen: 56.787 ug/l

RT: 13.217 min Scan# 1915

Delta R.T. -0.000 min

Lab File: VN086244.D

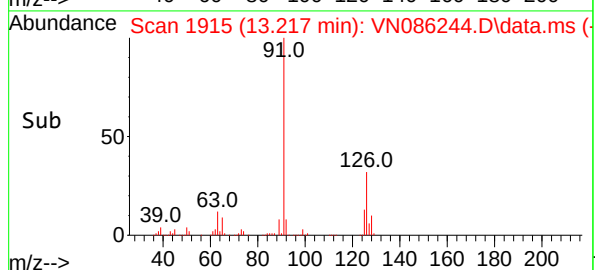
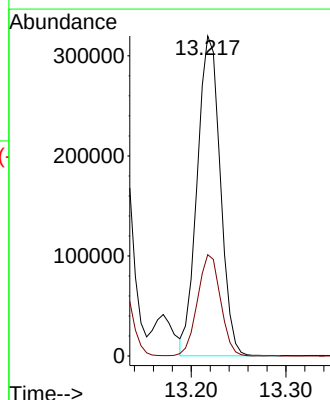
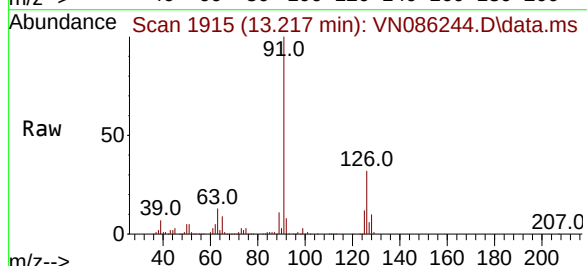
Acq: 11 Apr 2025 11:52

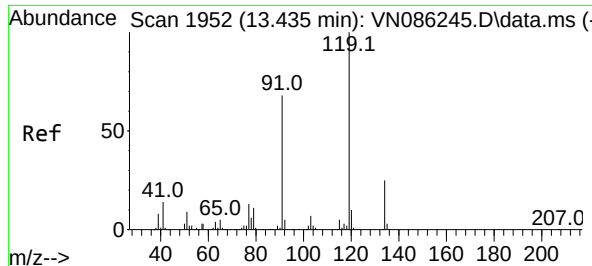
Tgt Ion: 91 Resp: 541691

Ion Ratio Lower Upper

91 100

126 31.6 0.0 63.2





#79

tert-butylbenzene

Concen: 55.374 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:119 Resp: 506518

Ion Ratio Lower Upper

119 100

91 69.1 0.0 136.6

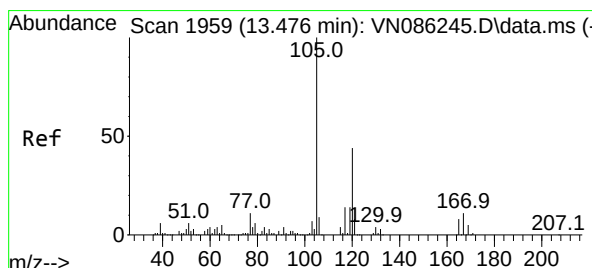
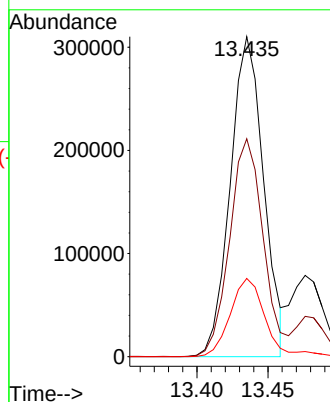
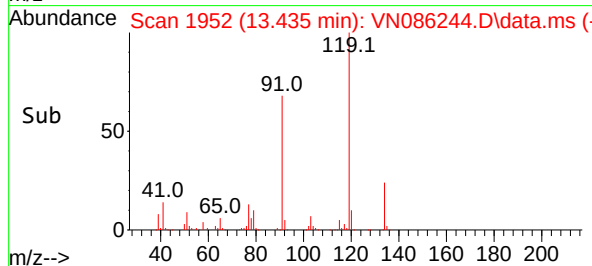
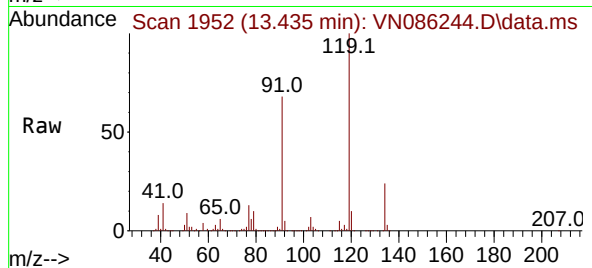
134 24.6 0.0 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#80

1,2,4-Trimethylbenzene

Concen: 57.035 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.000 min

Lab File: VN086244.D

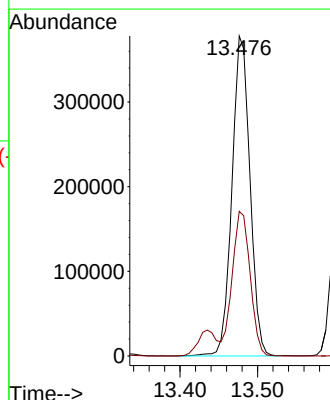
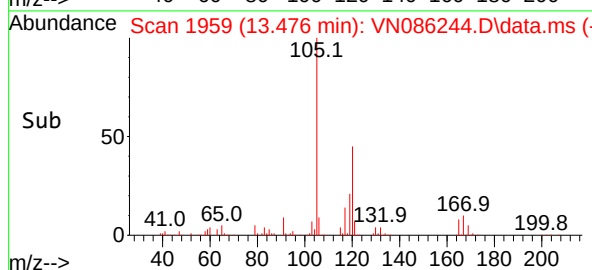
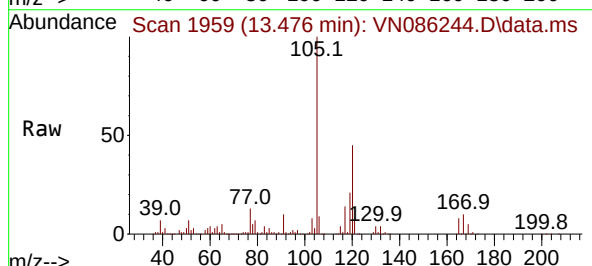
Acq: 11 Apr 2025 11:52

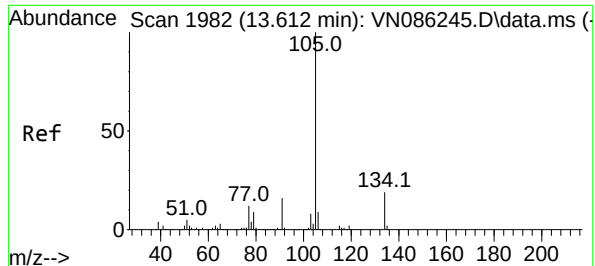
Tgt Ion:105 Resp: 611389

Ion Ratio Lower Upper

105 100

120 45.1 0.0 91.0





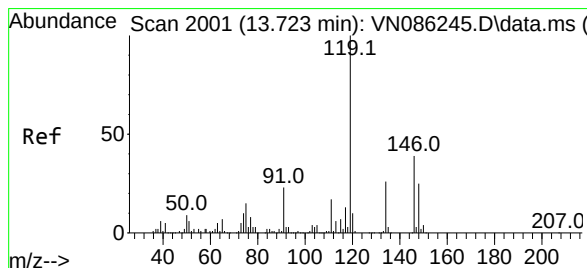
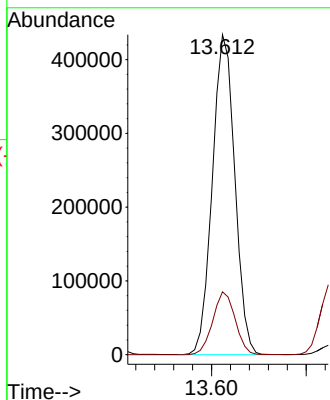
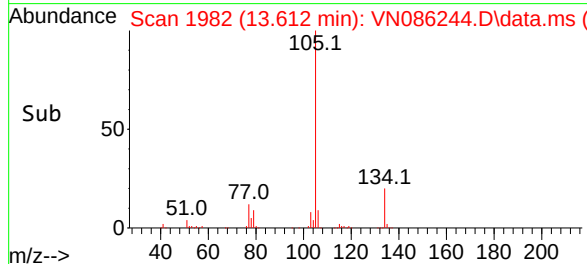
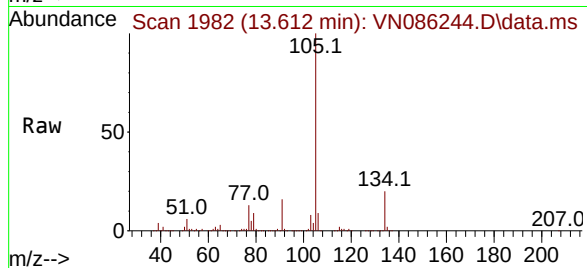
#81
sec-Butylbenzene
Concen: 55.977 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC050

Tgt Ion:105 Resp: 71424
Ion Ratio Lower Upper
105 100
134 19.5 0.0 38.6

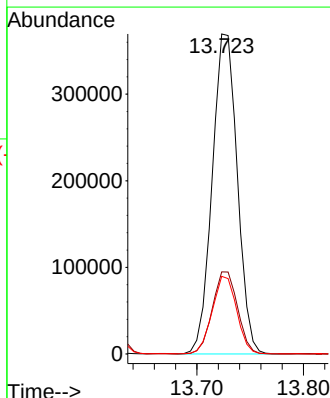
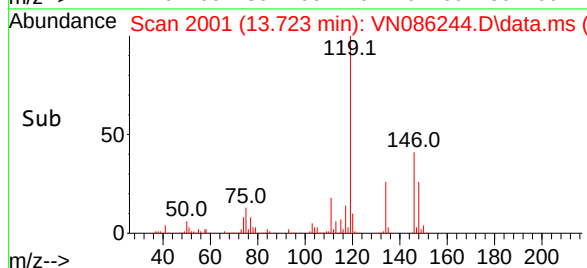
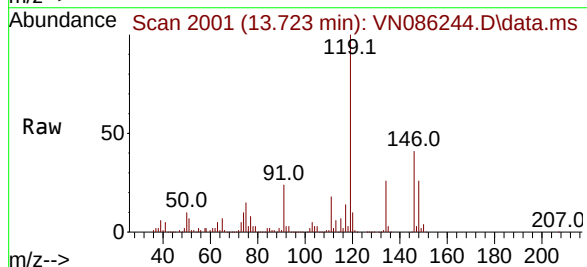
Manual Integrations
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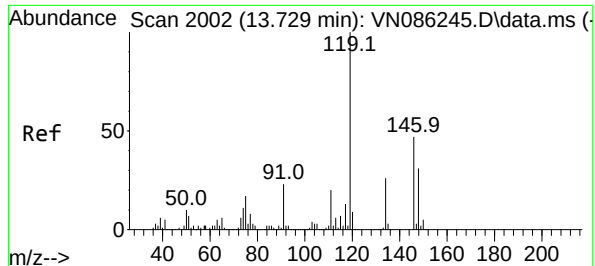
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#82
p-Isopropyltoluene
Concen: 56.791 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

Tgt Ion:119 Resp: 604494
Ion Ratio Lower Upper
119 100
134 25.8 0.0 51.6
91 23.6 0.0 48.2





#83

1,3-Dichlorobenzene

Concen: 57.795 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:146 Resp: 30624

Ion Ratio Lower Upper

146 100

111 43.6 21.7 65.1

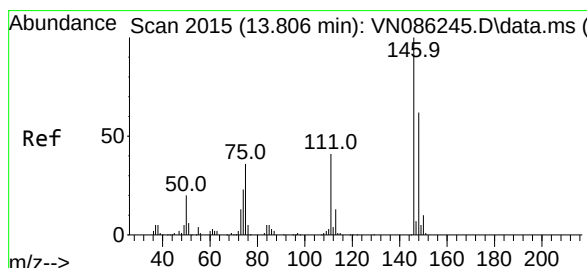
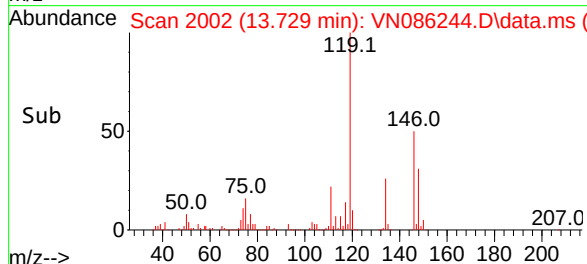
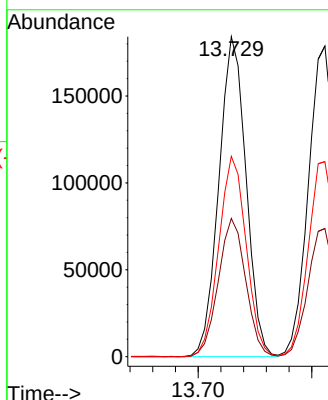
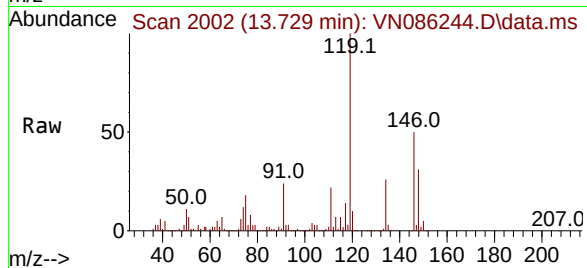
148 63.2 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#84

1,4-Dichlorobenzene

Concen: 57.117 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.006 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

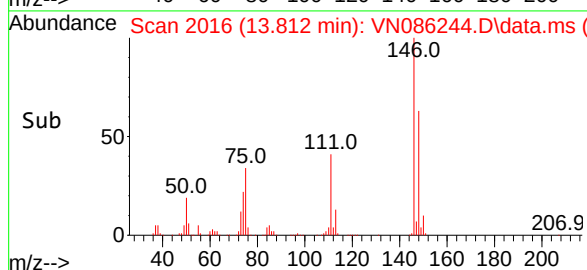
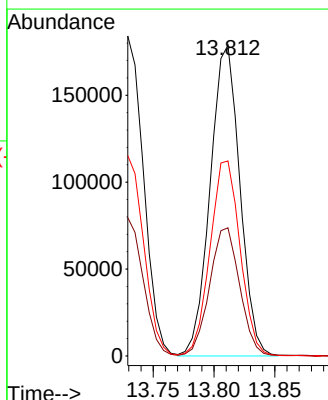
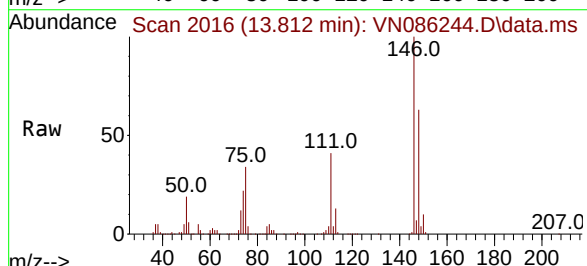
Tgt Ion:146 Resp: 303615

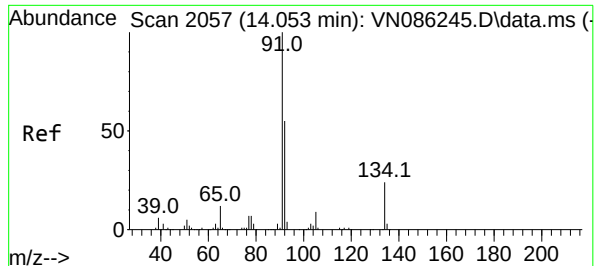
Ion Ratio Lower Upper

146 100

111 41.6 20.8 62.4

148 63.7 31.9 95.5





#85

n-Butylbenzene

Concen: 55.917 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

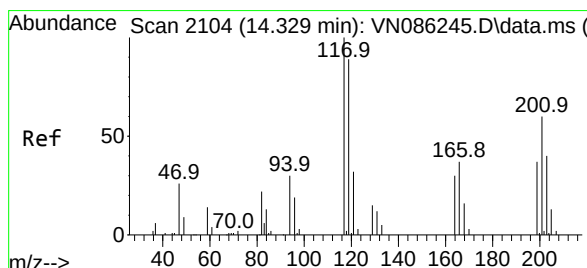
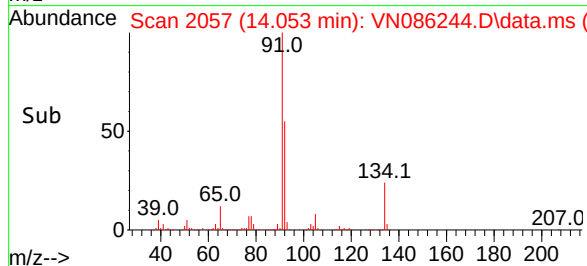
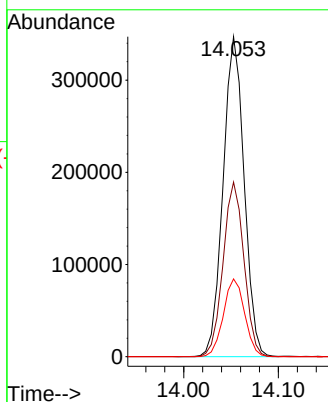
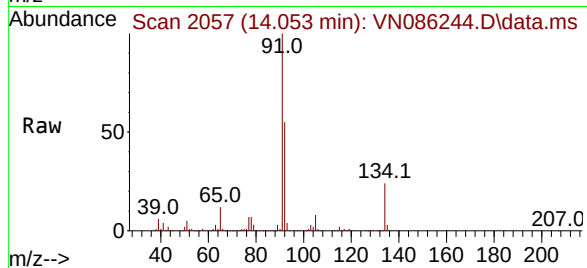
Tgt Ion:	91	Resp:	53694
Ion	Ratio	Lower	Upper
91	100		
92	54.0	0.0	109.4
134	24.5	0.0	48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#86

Hexachloroethane

Concen: 56.854 ug/l

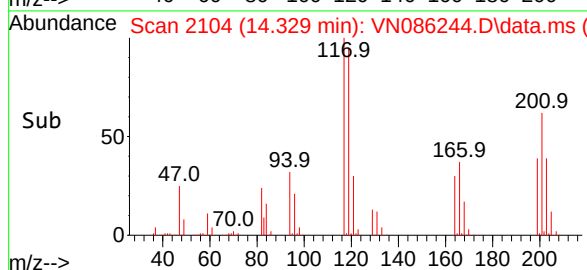
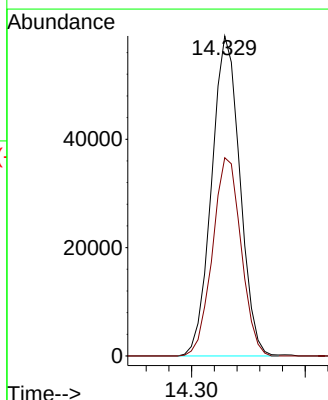
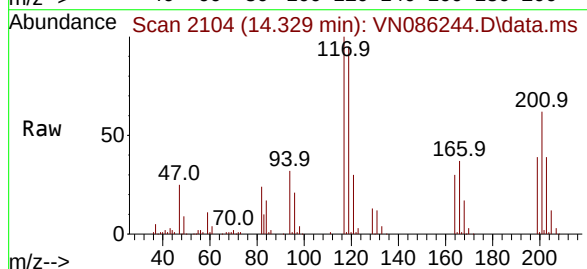
RT: 14.329 min Scan# 2104

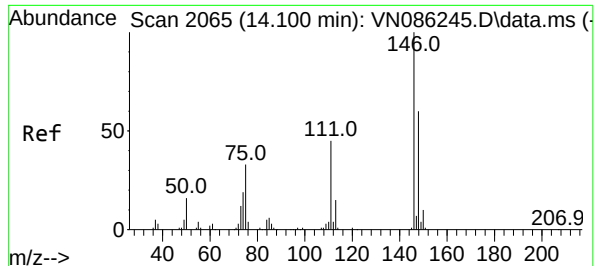
Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Tgt Ion:	117	Resp:	102084
Ion	Ratio	Lower	Upper
117	100		
201	62.6	30.9	92.8





#87

1,2-Dichlorobenzene

Concen: 57.607 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:146 Resp: 301390

Ion Ratio Lower Upper

146 100

111 44.9 22.7 68.0

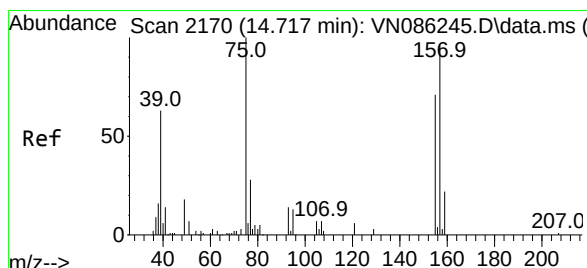
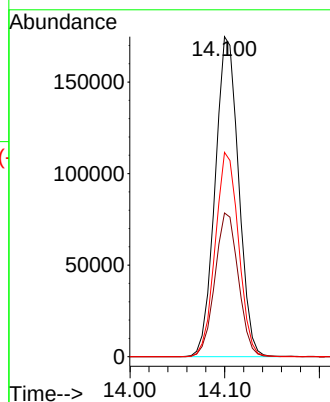
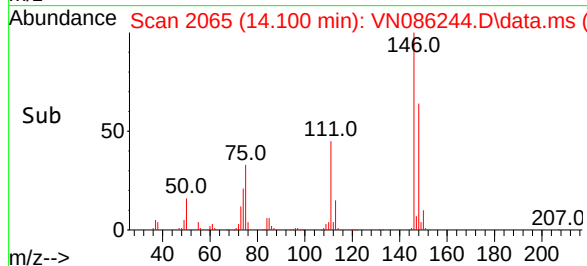
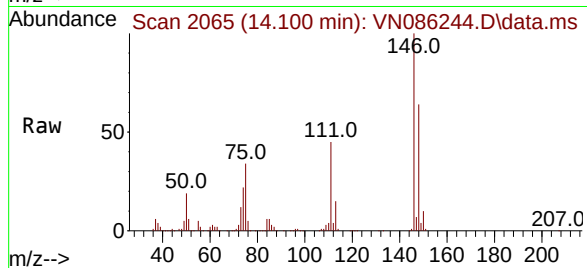
148 63.4 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 56.890 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

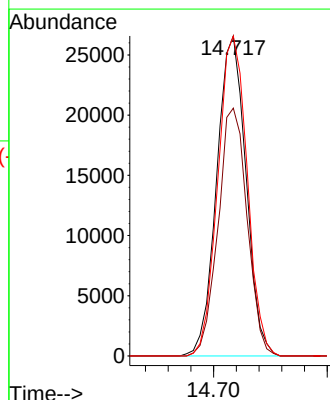
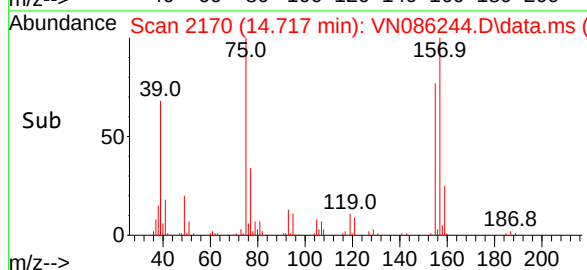
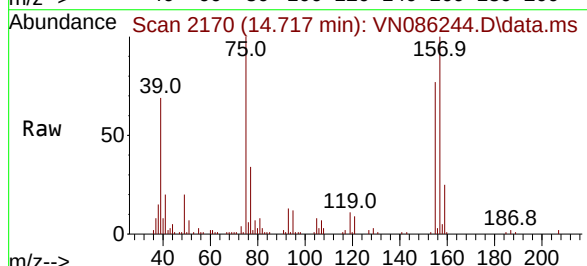
Tgt Ion: 75 Resp: 47464

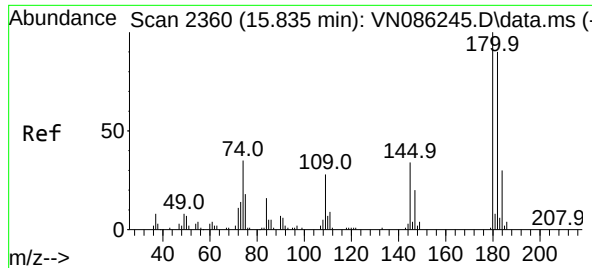
Ion Ratio Lower Upper

75 100

155 76.8 60.3 90.5

157 99.9 79.0 118.4





#89

1,2,4-Trichlorobenzene

Concen: 55.103 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:180 Resp: 14027

Ion Ratio Lower Upper

180 100

182 95.8 75.1 112.7

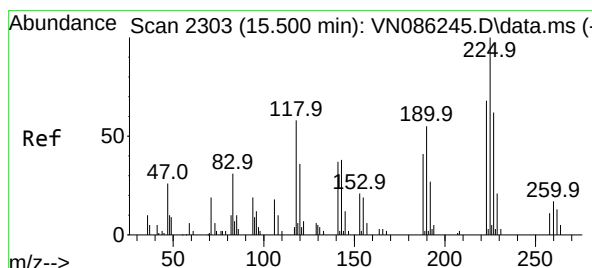
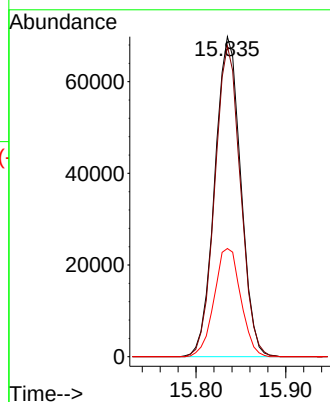
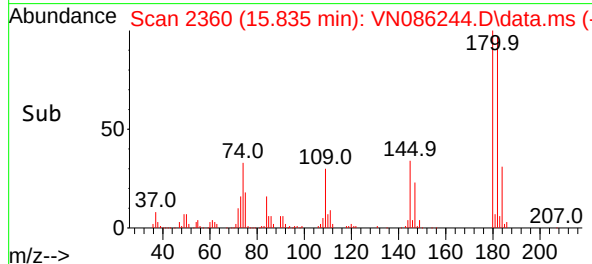
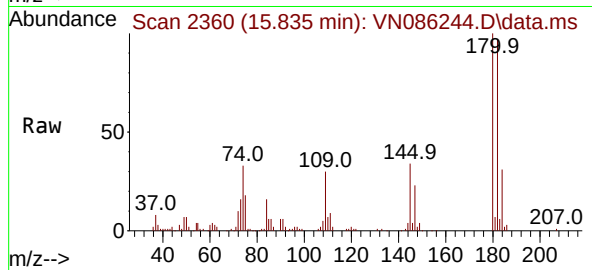
145 34.6 27.1 40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#90

Hexachlorobutadiene

Concen: 51.165 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086244.D

Acq: 11 Apr 2025 11:52

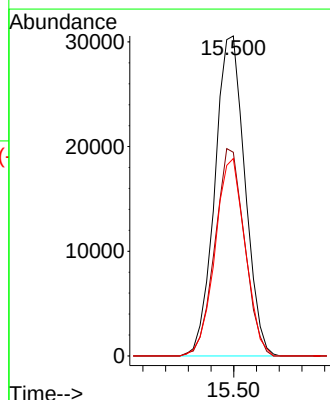
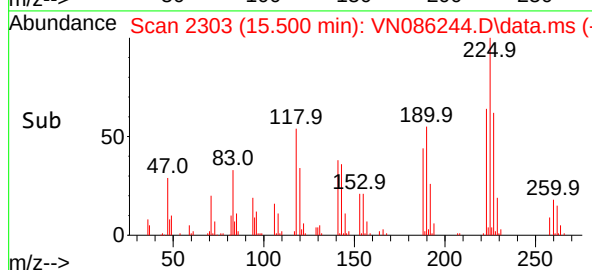
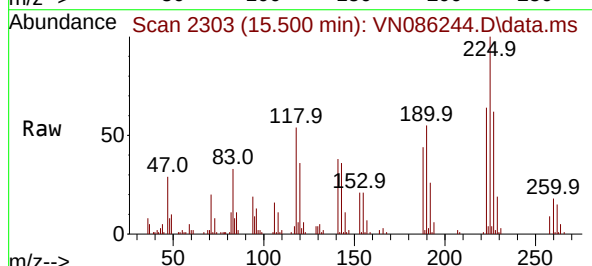
Tgt Ion:225 Resp: 56236

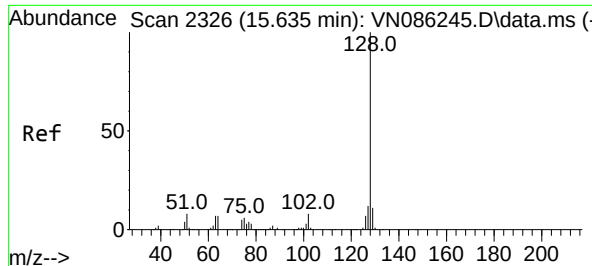
Ion Ratio Lower Upper

225 100

223 63.7 0.0 130.0

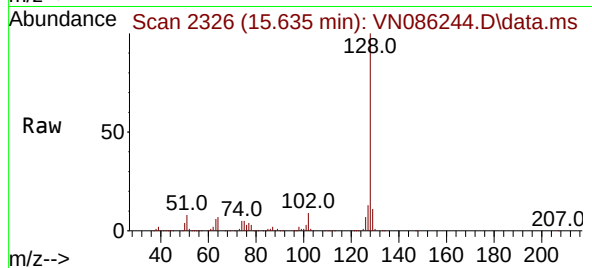
227 61.6 0.0 123.2





#91
Naphthalene
Concen: 55.953 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52

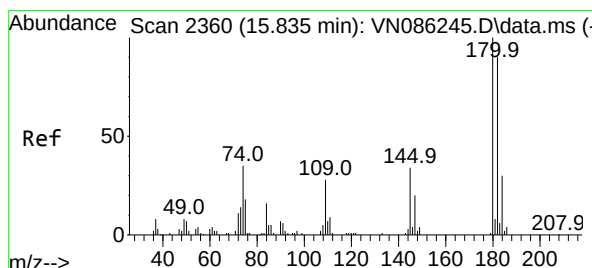
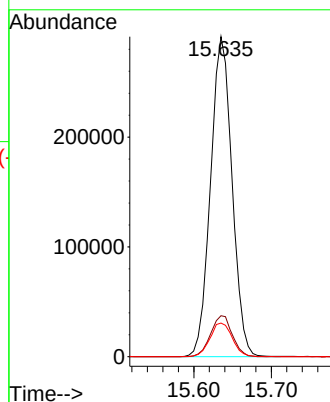
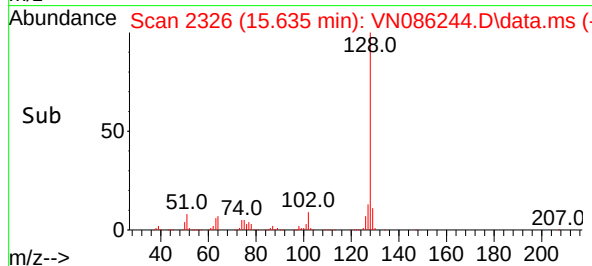
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050



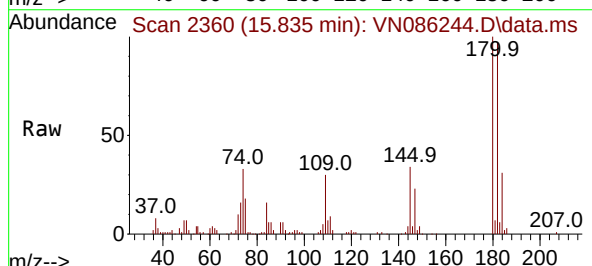
Tgt Ion:128 Resp: 561578
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.2
129 10.9 8.8 13.2

Manual Integrations
APPROVED

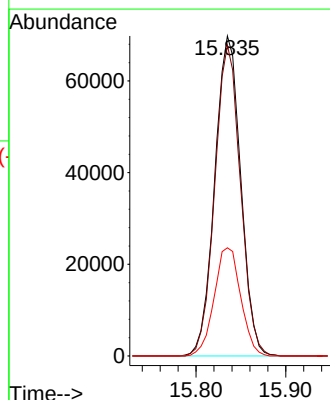
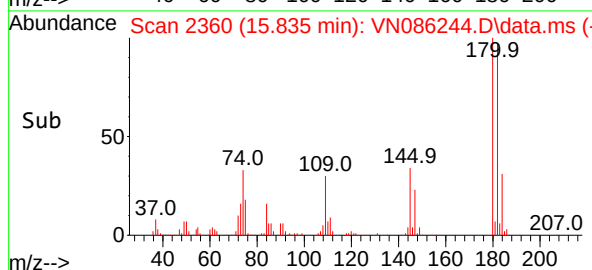
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#92
1,2,3-Trichlorobenzene
Concen: 55.103 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086244.D
Acq: 11 Apr 2025 11:52



Tgt Ion:180 Resp: 140271
Ion Ratio Lower Upper
180 100
182 95.8 0.0 187.8
145 34.6 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086245.D
 Acq On : 11 Apr 2025 12:16
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:20:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	30974	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	185020	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	163907	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	89958	29.776	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.267%		
60) 4-Bromofluorobenzene	12.847	95	97314	29.820	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.400%		
63) Toluene-d8	10.565	98	281589	30.431	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.433%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	48008	19.345	ug/l	100
3) Chloromethane	2.359	50	63879	18.624	ug/l	100
4) Vinyl Chloride	2.512	62	62095	19.006	ug/l	100
5) Bromomethane	2.965	94	30452	18.686	ug/l	100
6) Chloroethane	3.124	64	38415	18.620	ug/l	100
7) Trichlorofluoromethane	3.501	101	66215	18.683	ug/l	100
8) Diethyl Ether	3.959	74	30487	18.653	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	41257	18.878	ug/l	100
10) 1,1-Dichloroethene	4.342	96	44299	18.782	ug/l	100
11) Methyl Iodide	4.589	142	50856	18.760	ug/l	100
12) Methyl Acetate	5.024	43	61331	18.414	ug/l	100
13) Acrolein	4.177	56	27873	73.623	ug/l	100
14) Acrylonitrile	5.718	53	132407	94.169	ug/l	100
15) Acetone	4.424	58	33967	95.196	ug/l	95
16) Carbon Disulfide	4.712	76	129547	19.155	ug/l	100
17) Allyl chloride	5.024	41	76657	18.648	ug/l	100
18) Methylene Chloride	5.277	84	49299	18.333	ug/l	100
19) trans-1,2-Dichloroethene	5.789	96	45854	21.553	ug/l	100
20) Diisopropyl ether	6.671	45	167099	18.905	ug/l	100
21) 1,1-Dichloroethane	6.565	63	89726	19.030	ug/l	100
22) cis-1,2-Dichloroethene	7.489	96	55538	18.766	ug/l	100
23) tert-Butyl Alcohol	5.512	59	56269	96.582	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	158818	18.690	ug/l	100
25) Chloroform	7.965	83	84511	18.796	ug/l	100
26) Cyclohexane	8.253	56	81442	18.462	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	63403	19.129	ug/l	100
30) 2-Butanone	7.483	43	178630	97.263	ug/l	100
31) 2,2-Dichloropropane	7.489	77	78733	19.298	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	72230	18.945	ug/l	100
33) Carbon Tetrachloride	8.359	117	58240	19.114	ug/l	100
34) Benzene	8.606	78	201431	19.103	ug/l	100
35) Methacrylonitrile	7.777	41	39241	18.953	ug/l	100
36) 1,2-Dichloroethane	8.671	62	63104	19.124	ug/l	100
37) Trichloroethene	9.353	130	48886	19.215	ug/l	100
38) Methylcyclohexane	9.600	83	75994	18.695	ug/l	100
39) 1,2-Dichloropropane	9.618	63	49925	19.028	ug/l	100
40) Dibromomethane	9.706	93	32130	18.960	ug/l	100
41) Bromodichloromethane	9.882	83	69713	19.149	ug/l	100
42) Vinyl Acetate	6.600	43	616622	98.633	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086245.D
 Acq On : 11 Apr 2025 12:16
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:20:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	72635	19.607	ug/l	100
44) Isopropyl Acetate	8.683	43	129543	18.850	ug/l	100
45) 1,4-Dioxane	9.694	88	21134	386.736	ug/l	100
46) Methyl methacrylate	9.677	41	58112	19.192	ug/l	100
47) n-amyl Acetate	12.488	43	101635	18.304	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	78104	18.977	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	83505	19.170	ug/l	100
50) 1,1,2-Trichloroethane	11.012	97	45892	19.308	ug/l	100
51) Ethyl methacrylate	10.871	69	84042	19.027	ug/l	100
52) 1,3-Dichloropropane	11.159	76	79960	18.875	ug/l	100
53) Dibromochloromethane	11.353	129	49892	19.190	ug/l	100
54) 1,2-Dibromoethane	11.465	107	45668	19.034	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	199584	119.582	ug/l	100
56) Bromoform	12.576	173	32612	19.173	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	366576	98.554	ug/l	100
59) 2-Hexanone	11.194	43	271384	97.984	ug/l	100
61) Tetrachloroethene	11.100	164	46313	19.134	ug/l	100
62) Toluene	10.629	91	212088	19.292	ug/l	100
64) Chlorobenzene	11.888	112	128877	19.188	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	42656	19.244	ug/l	100
66) Ethyl Benzene	11.959	91	233805	19.177	ug/l	100
67) m/p-Xylenes	12.071	106	172384	38.024	ug/l	100
68) o-Xylene	12.394	106	85173	19.101	ug/l	100
69) Styrene	12.406	104	141327	18.793	ug/l	100
70) Isopropylbenzene	12.694	105	209526	19.057	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	60936	19.472	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	61888m	13.969	ug/l	
73) Bromobenzene	12.976	156	46561	19.116	ug/l	100
74) n-propylbenzene	13.029	91	243573	18.707	ug/l	100
75) 2-Chlorotoluene	13.123	91	154341	18.914	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	172014	19.046	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	28529	18.993	ug/l	100
78) 4-Chlorotoluene	13.218	91	151091	18.539	ug/l	100
79) tert-butylbenzene	13.435	119	147428	18.865	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	174827	19.089	ug/l	100
81) sec-Butylbenzene	13.612	105	208583	19.134	ug/l	100
82) p-Isopropyltoluene	13.723	119	173120	19.037	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	84482	18.662	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	84947	18.705	ug/l	100
85) n-Butylbenzene	14.053	91	155208	18.919	ug/l	100
86) Hexachloroethane	14.329	117	29008	18.910	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	85009	19.018	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	14031	19.684	ug/l	100
89) 1,2,4-Trichlorobenzene	15.835	180	43895	20.183	ug/l	100
90) Hexachlorobutadiene	15.500	225	18215	19.398	ug/l	100
91) Naphthalene	15.635	128	169118	19.722	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	43895	20.183	ug/l	100

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

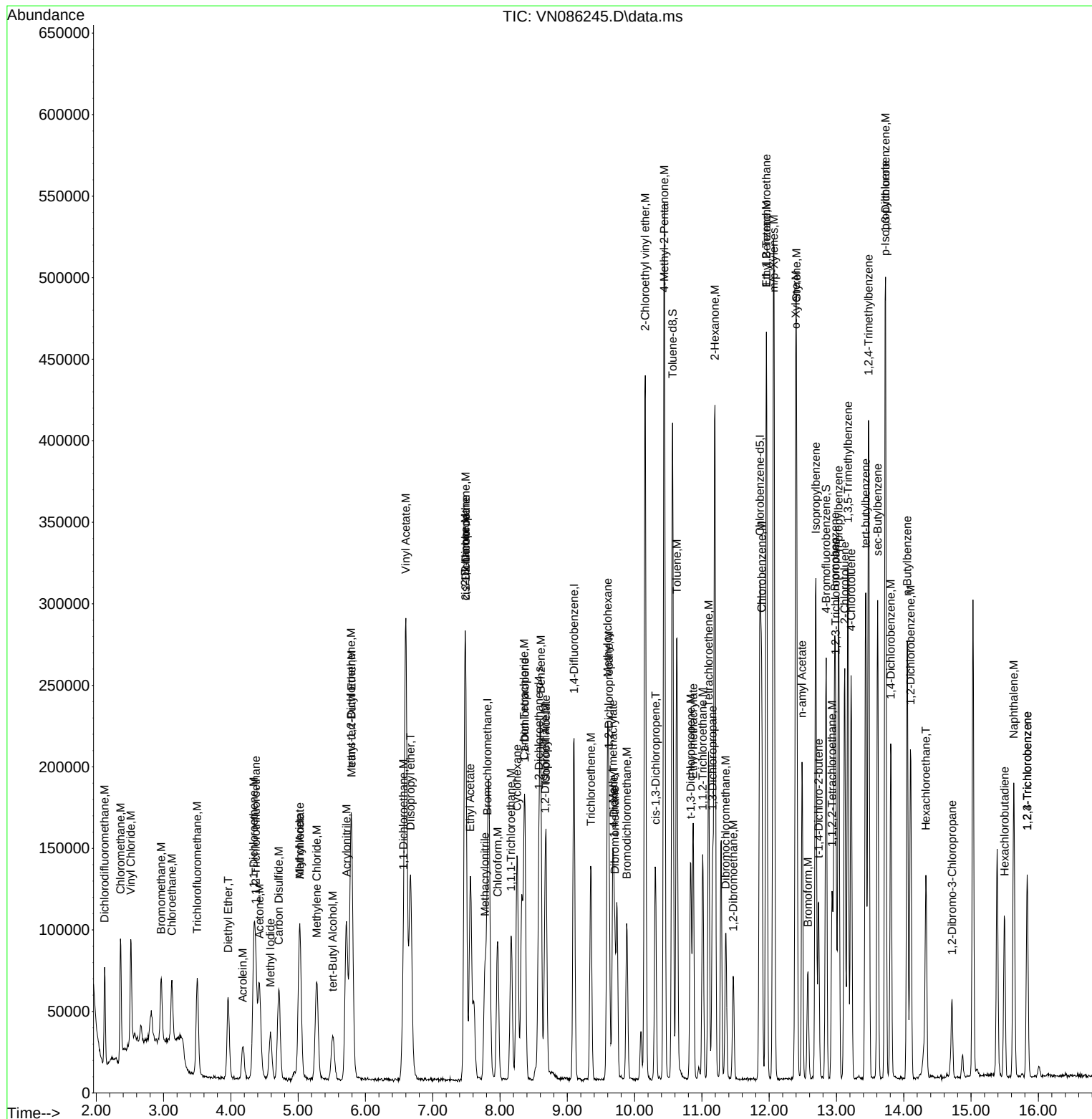
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086245.D
 Acq On : 11 Apr 2025 12:16
 Operator : JC\MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

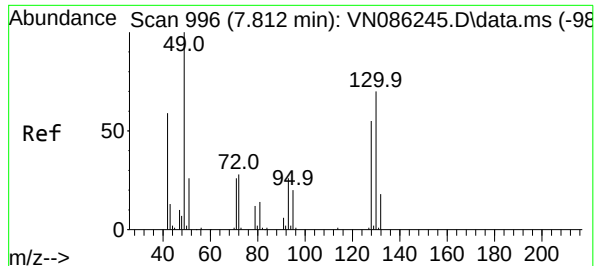
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Quant Time: Apr 12 00:20:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

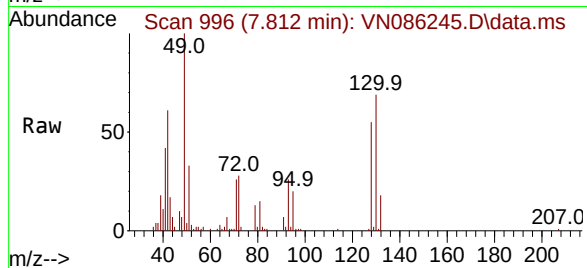
Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

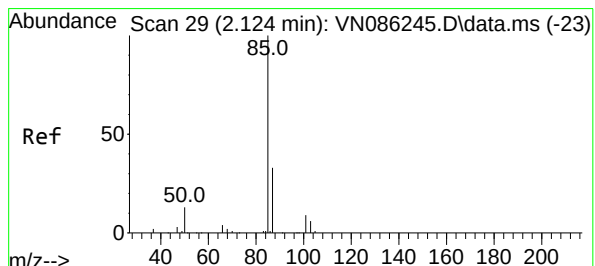
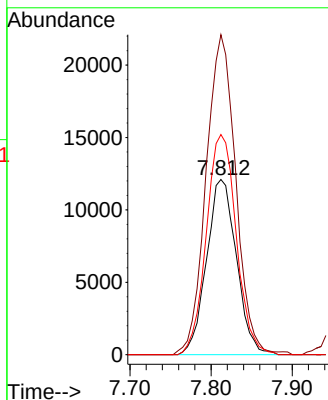
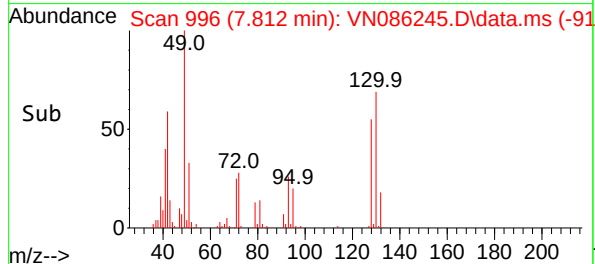
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:128 Resp: 30974
Ion Ratio Lower Upper
128 100
49 181.0 0.0 452.5
130 126.0 0.0 315.0

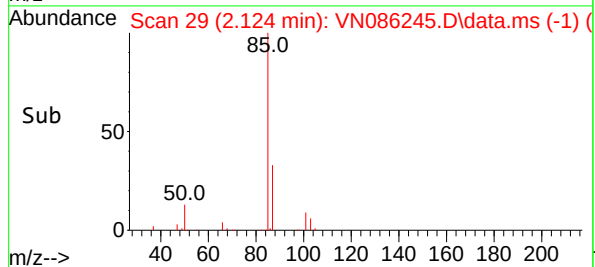
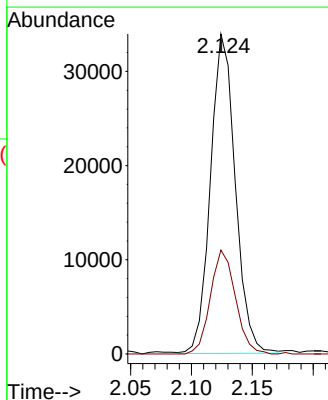
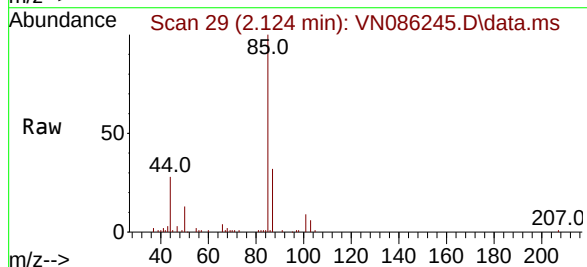
Manual Integrations
APPROVED

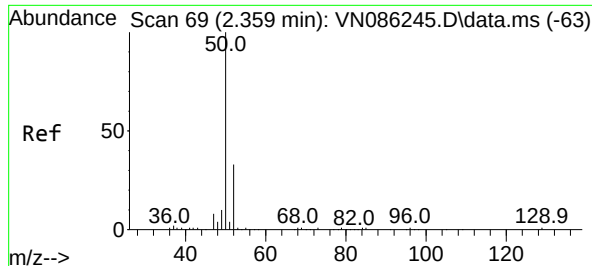
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#2
Dichlorodifluoromethane
Concen: 19.345 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 85 Resp: 48008
Ion Ratio Lower Upper
85 100
87 32.6 16.3 48.9





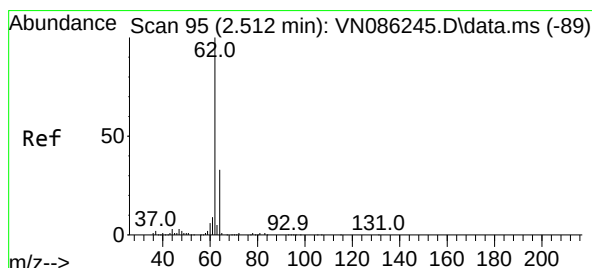
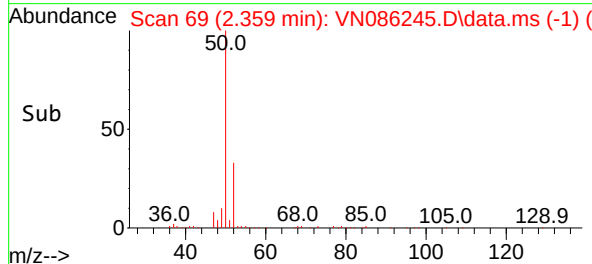
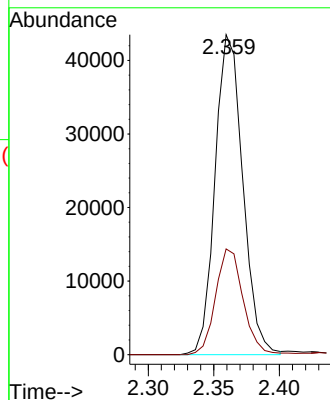
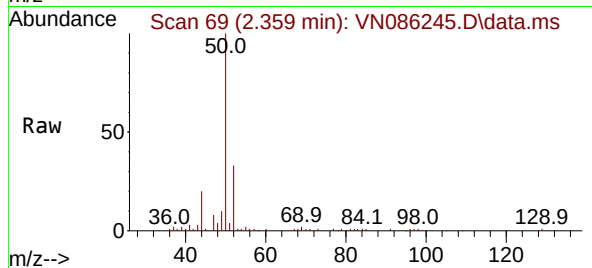
#3
Chloromethane
Concen: 18.624 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 50 Resp: 63879
Ion Ratio Lower Upper
50 100
52 33.0 26.4 39.6

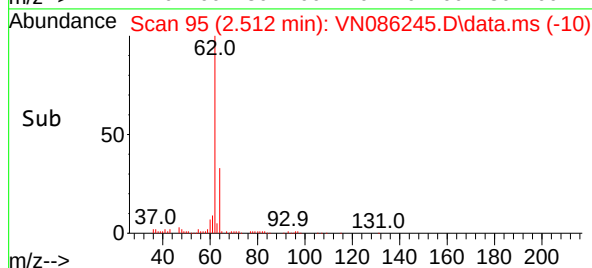
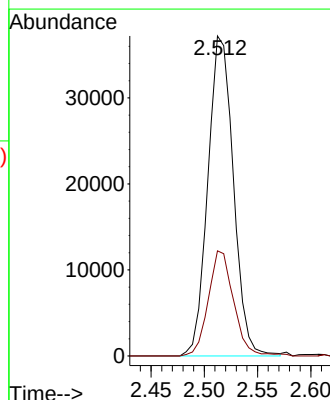
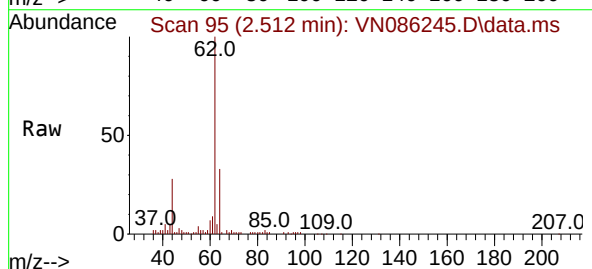
Manual Integrations
APPROVED

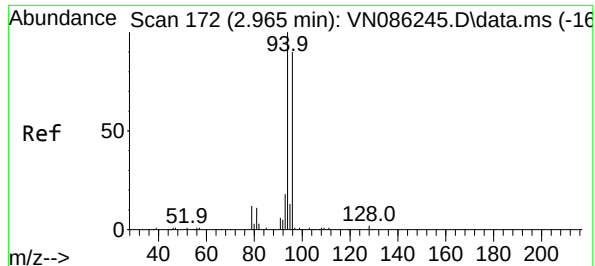
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 19.006 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 62 Resp: 62095
Ion Ratio Lower Upper
62 100
64 32.9 26.3 39.5





#5

Bromomethane

Concen: 18.686 ug/l

RT: 2.965 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 94 Resp: 3045

Ion Ratio Lower Upper

94 100

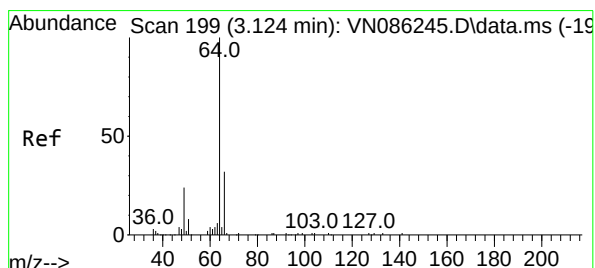
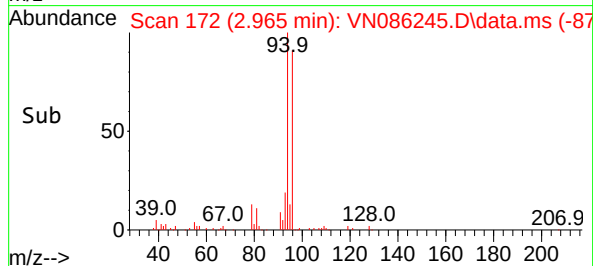
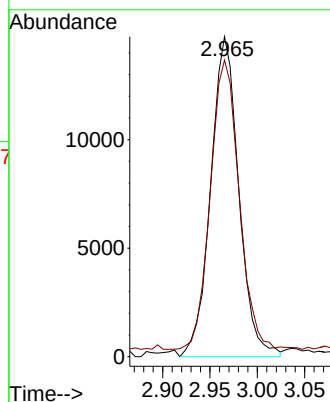
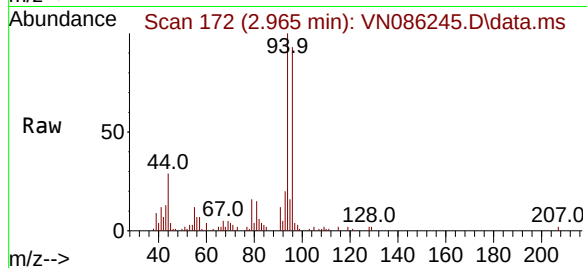
96 90.2 72.2 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#6

Chloroethane

Concen: 18.620 ug/l

RT: 3.124 min Scan# 199

Delta R.T. 0.000 min

Lab File: VN086245.D

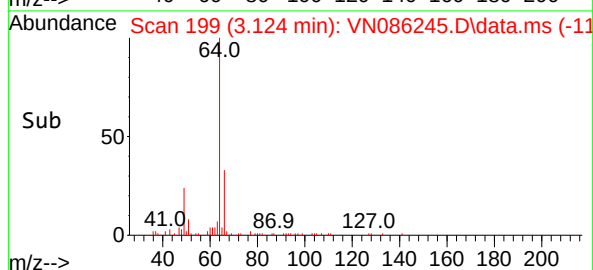
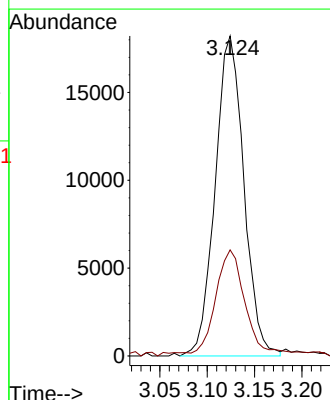
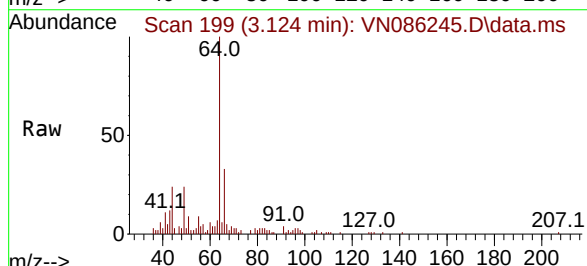
Acq: 11 Apr 2025 12:16

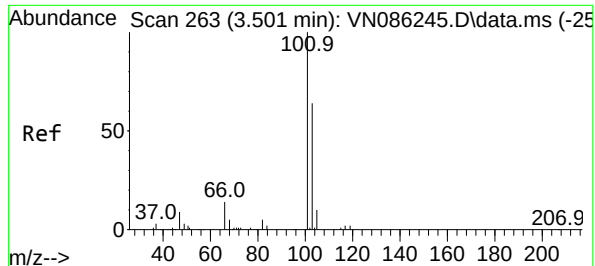
Tgt Ion: 64 Resp: 38415

Ion Ratio Lower Upper

64 100

66 32.1 25.7 38.5





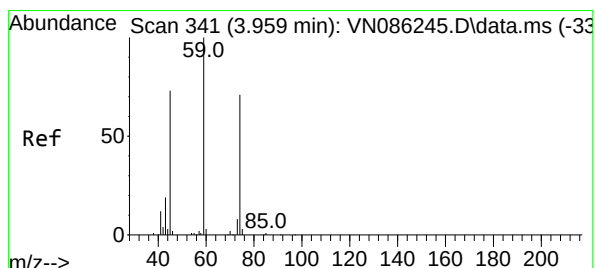
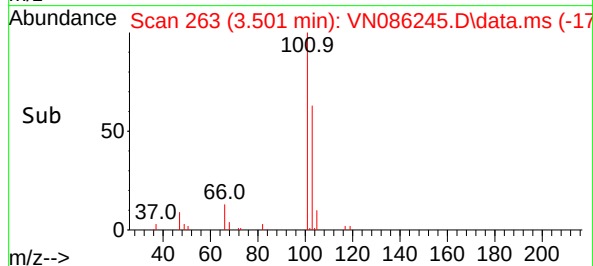
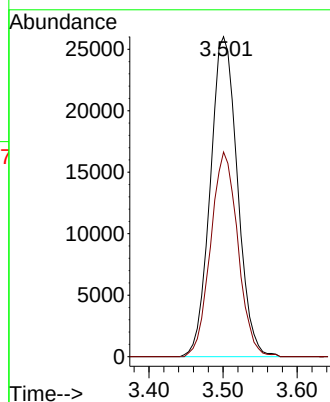
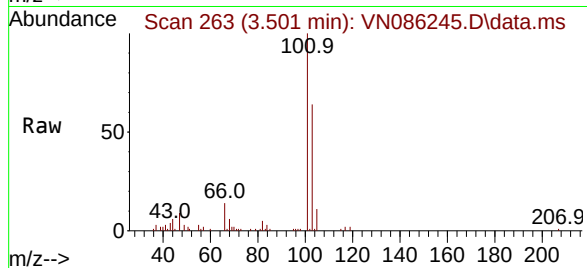
#7
Trichlorofluoromethane
Concen: 18.683 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:101 Resp: 66215
Ion Ratio Lower Upper
101 100
103 64.0 51.2 76.8

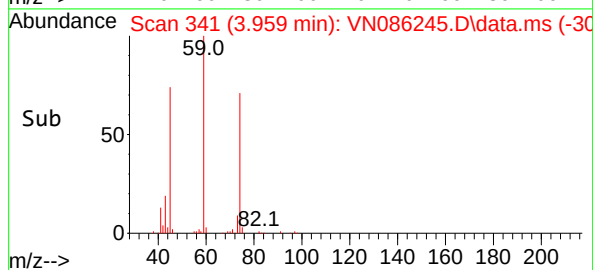
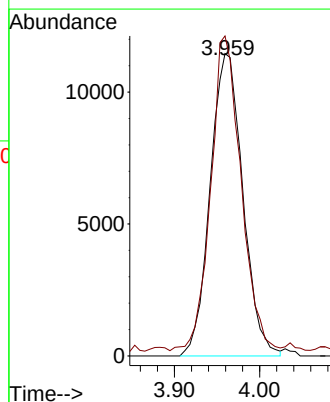
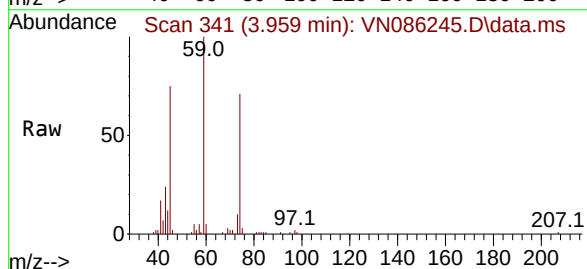
Manual Integrations
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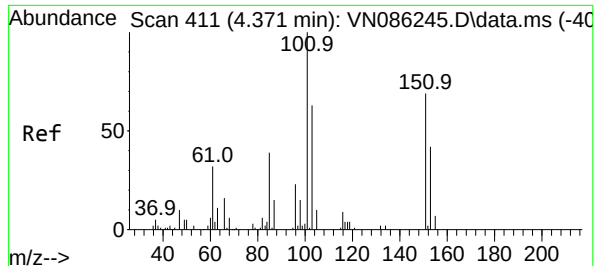
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#8
Diethyl Ether
Concen: 18.653 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 74 Resp: 30487
Ion Ratio Lower Upper
74 100
45 96.2 19.2 173.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.878 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

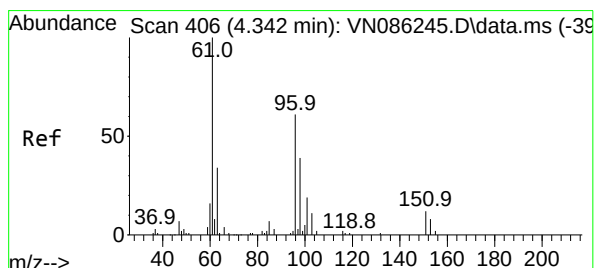
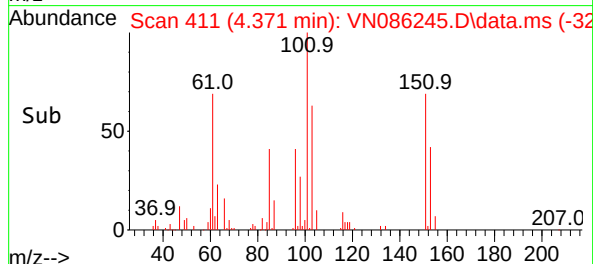
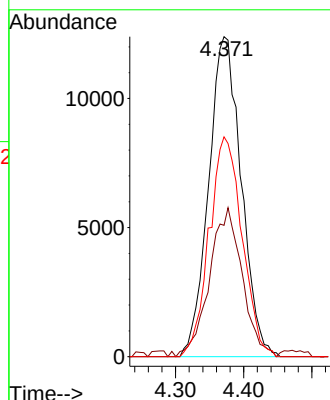
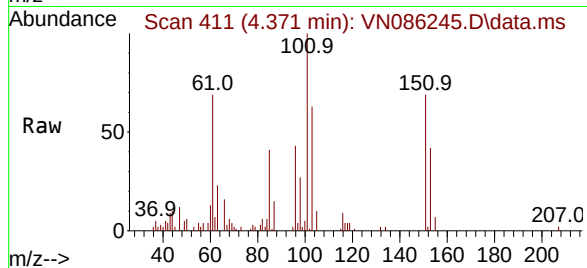
Tgt Ion:	101	Resp:	4125
Ion	Ratio	Lower	Upper
101	100		
85	46.5	0.0	93.0
151	69.3	0.0	138.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#10

1,1-Dichloroethene

Concen: 18.782 ug/l

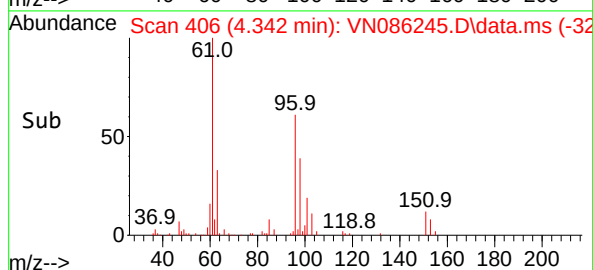
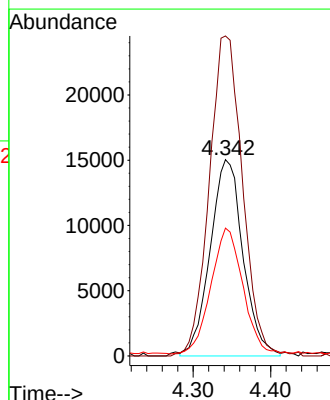
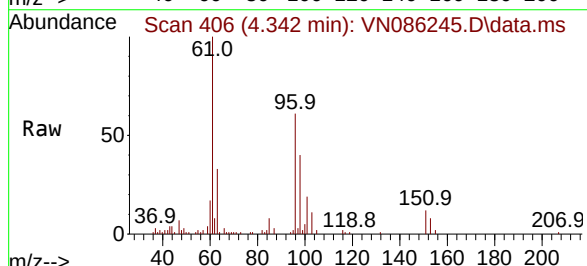
RT: 4.342 min Scan# 406

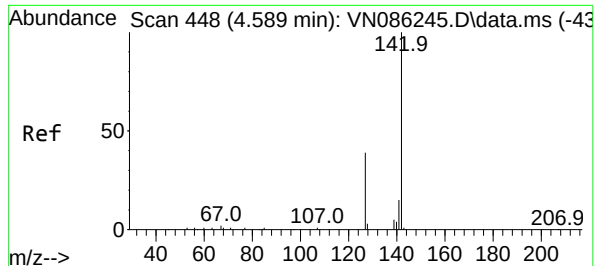
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	96	Resp:	44299
Ion	Ratio	Lower	Upper
96	100		
61	163.9	131.1	196.7
98	64.5	51.6	77.4





#11

Methyl Iodide

Concen: 18.760 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

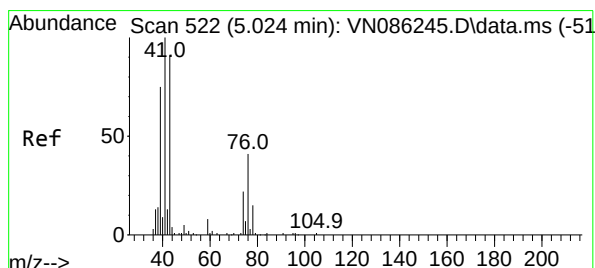
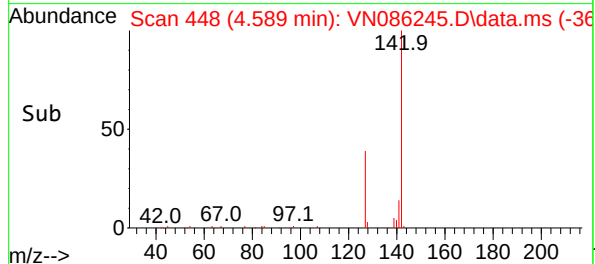
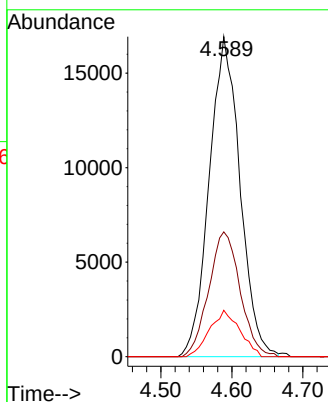
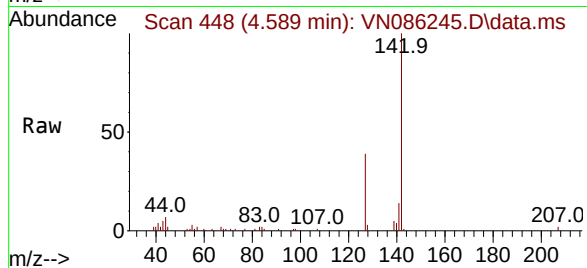
Tgt Ion:	142	Resp:	5085
Ion Ratio	Lower	Upper	
142	100		
127	39.2	19.6	58.8
141	14.6	7.3	21.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#12

Methyl Acetate

Concen: 18.414 ug/l

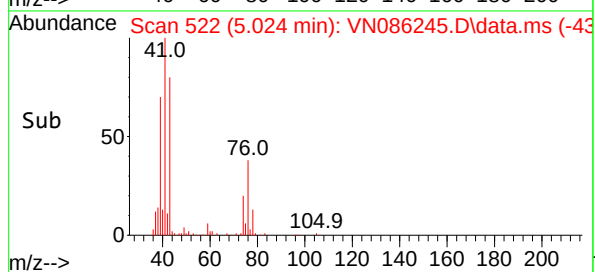
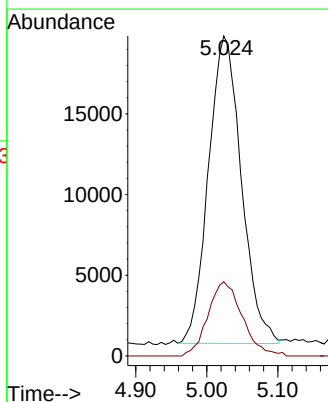
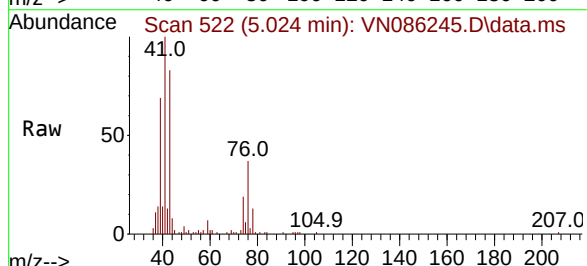
RT: 5.024 min Scan# 522

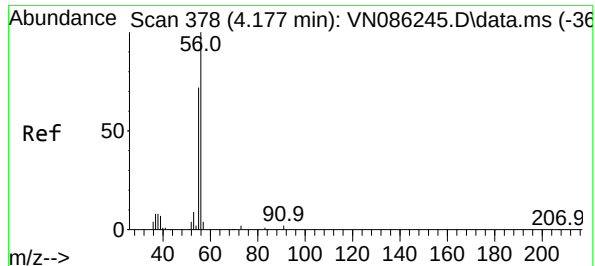
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	43	Resp:	61331
Ion Ratio	Lower	Upper	
43	100		
74	23.9	19.1	28.7





#13

Acrolein

Concen: 73.623 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 56 Resp: 2787

Ion Ratio Lower Upper

56 100

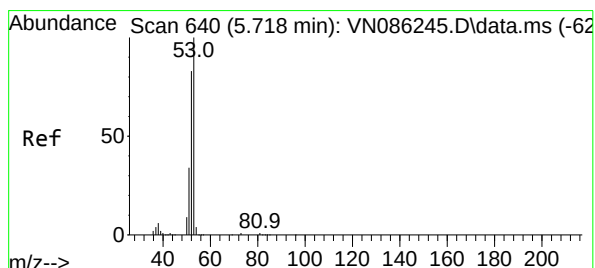
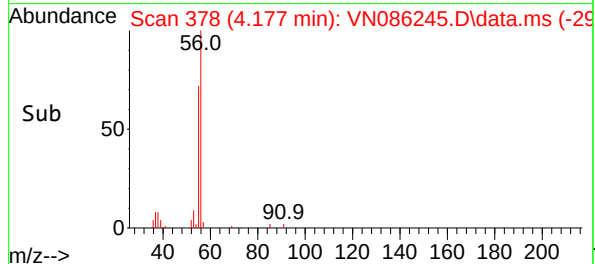
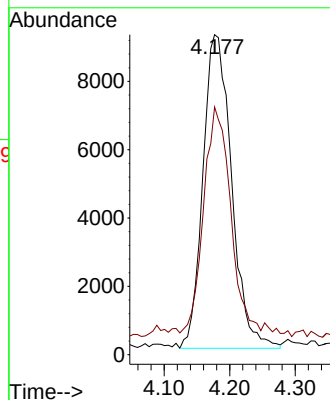
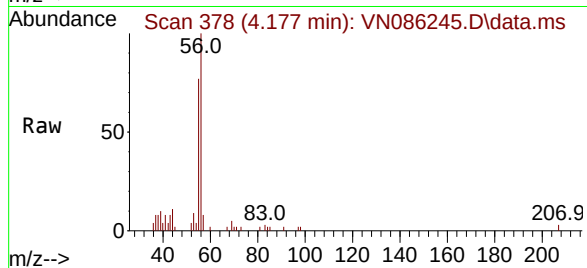
55 70.6 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#14

Acrylonitrile

Concen: 94.169 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

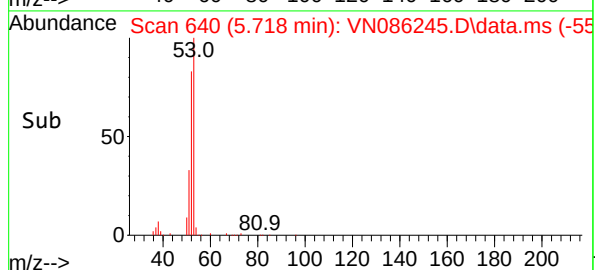
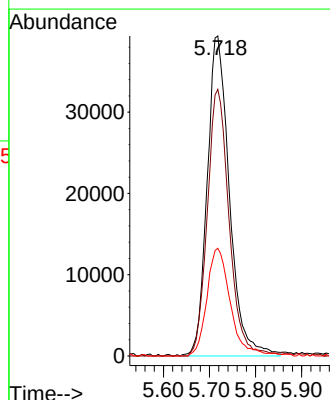
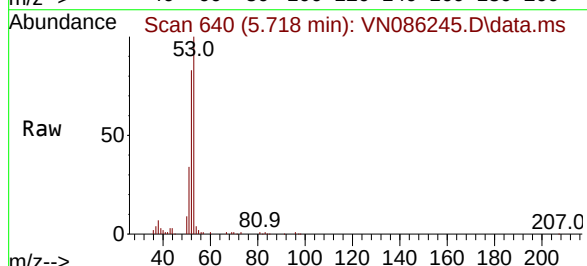
Tgt Ion: 53 Resp: 132407

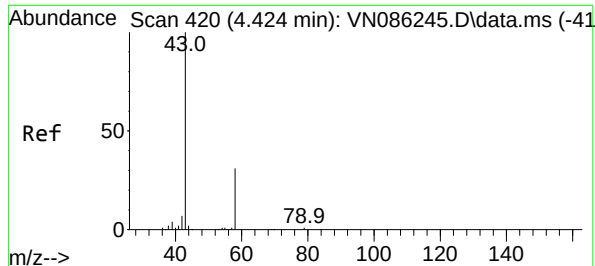
Ion Ratio Lower Upper

53 100

52 80.4 40.2 120.6

51 35.1 17.5 52.6





#15

Acetone

Concen: 95.196 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 58 Resp: 3396

Ion Ratio Lower Upper

58 100

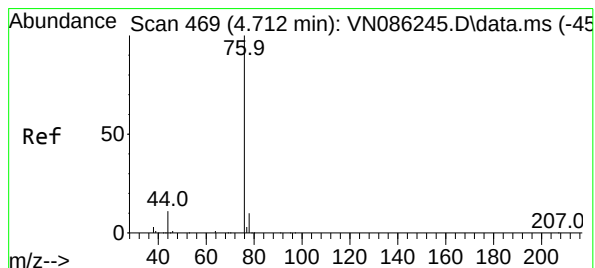
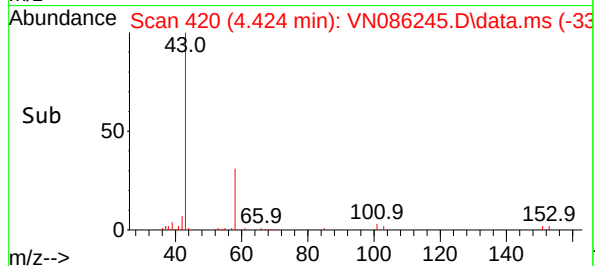
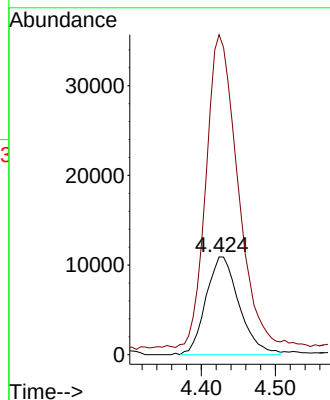
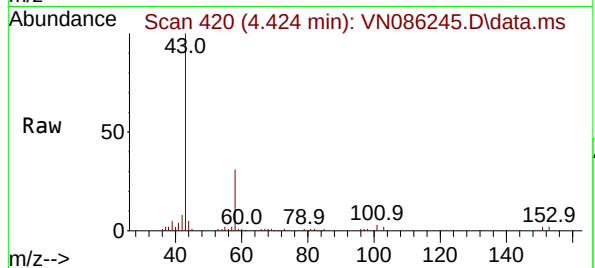
43 317.0 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#16

Carbon Disulfide

Concen: 19.155 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086245.D

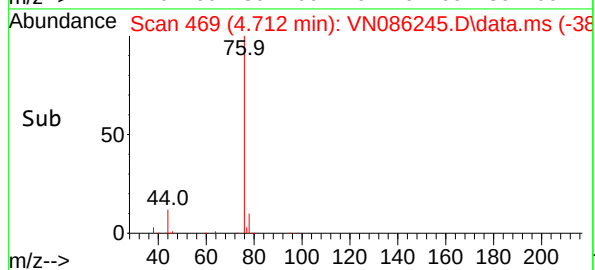
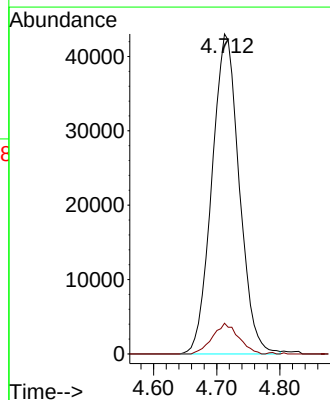
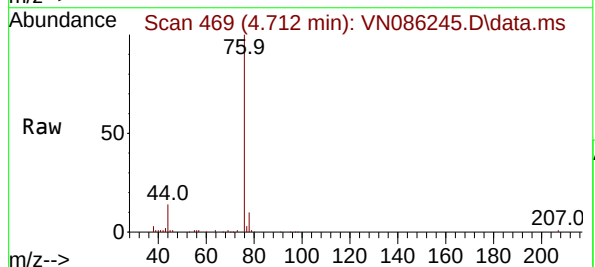
Acq: 11 Apr 2025 12:16

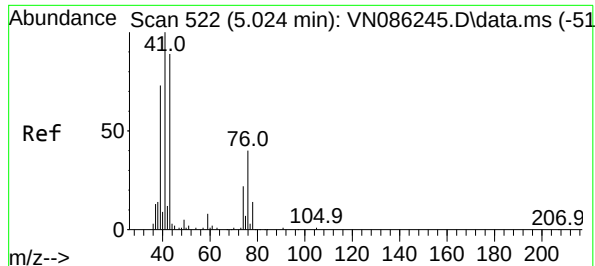
Tgt Ion: 76 Resp: 129547

Ion Ratio Lower Upper

76 100

78 9.6 7.7 11.5





#17

Allyl chloride

Concen: 18.648 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

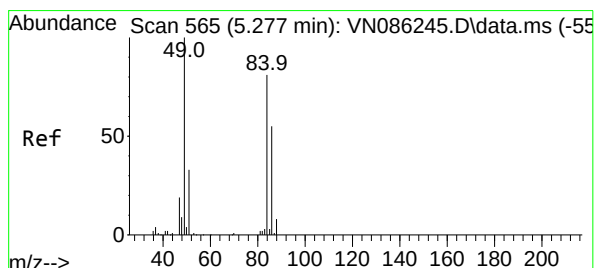
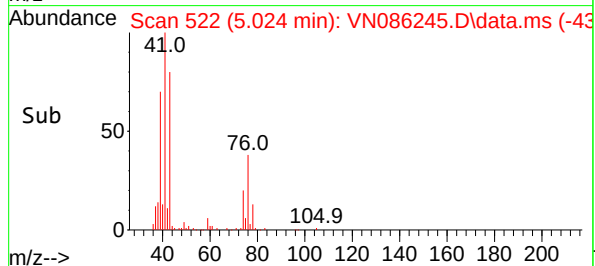
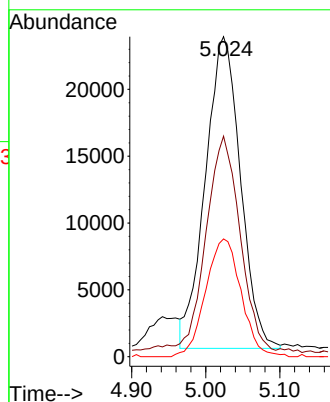
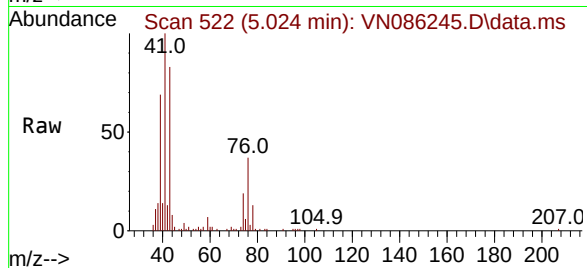
Tgt Ion:	41	Resp:	7665
Ion	Ratio	Lower	Upper
41	100		
39	68.8	34.4	103.2
76	37.5	18.8	56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#18

Methylene Chloride

Concen: 18.333 ug/l

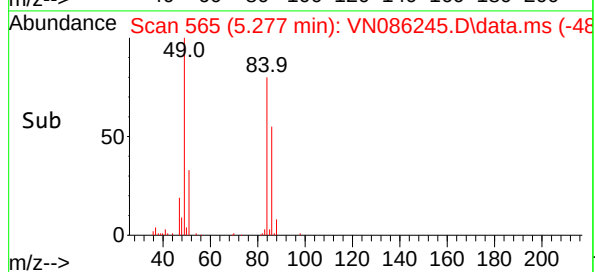
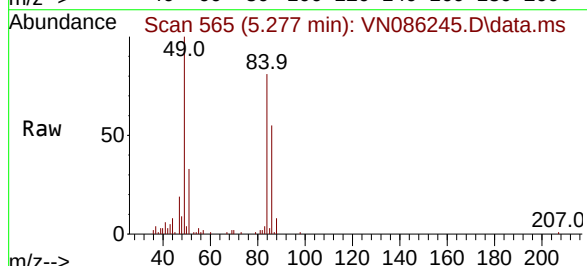
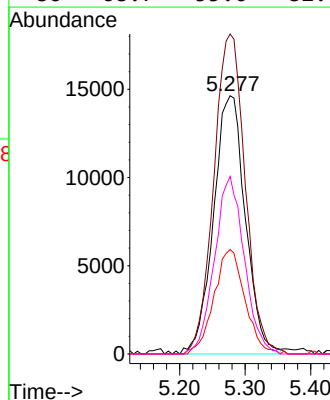
RT: 5.277 min Scan# 565

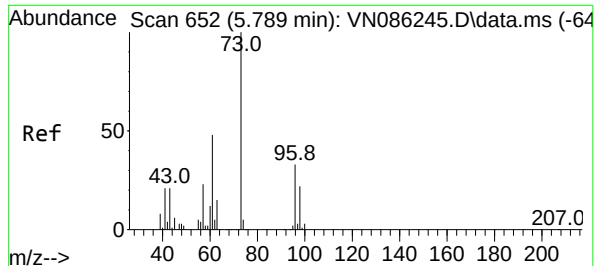
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	84	Resp:	49299
Ion	Ratio	Lower	Upper
84	100		
49	123.9	99.1	148.7
51	40.4	32.3	48.5
86	68.7	55.0	82.4





#19

trans-1,2-Dichloroethene

Concen: 21.553 ug/l

RT: 5.789 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

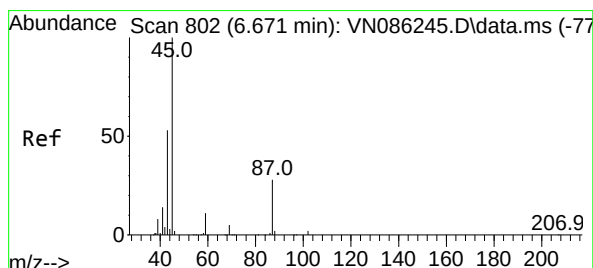
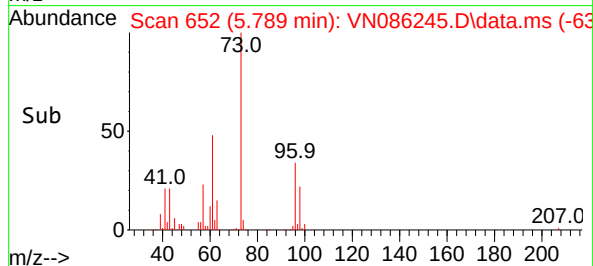
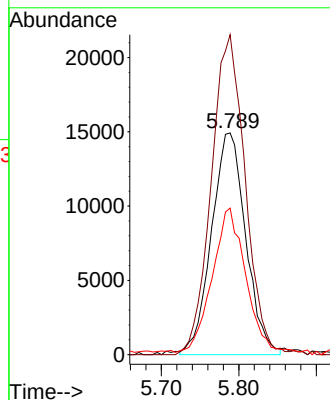
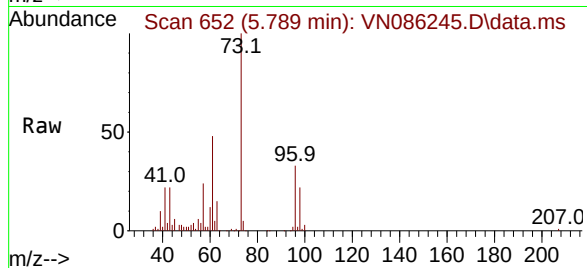
Tgt Ion:	96	Resp:	45854
Ion	Ratio	Lower	Upper
96	100		
61	144.9	115.9	173.9
98	65.1	52.1	78.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#20

Diisopropyl ether

Concen: 18.905 ug/l

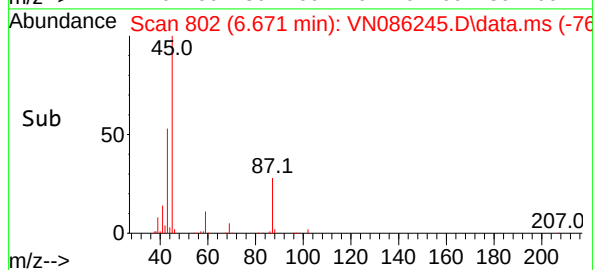
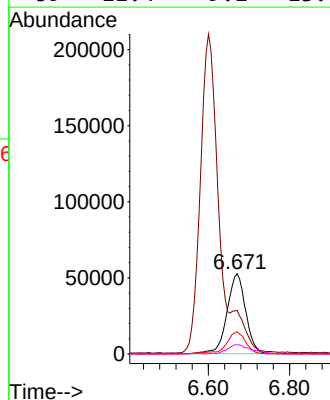
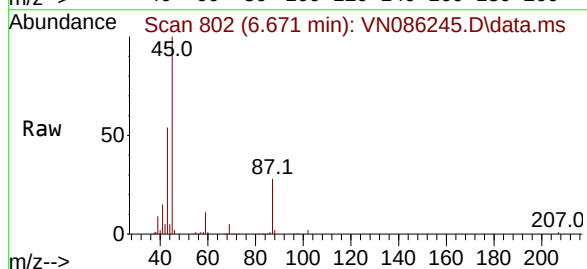
RT: 6.671 min Scan# 802

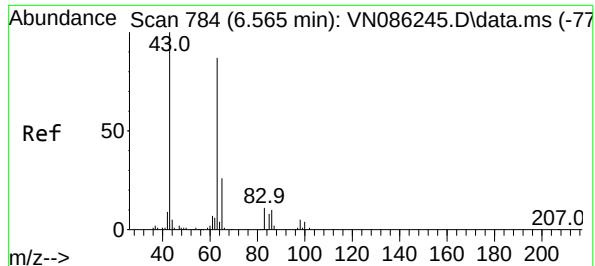
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	45	Resp:	167099
Ion	Ratio	Lower	Upper
45	100		
43	52.9	42.3	63.5
87	27.8	22.2	33.4
59	11.4	9.1	13.7





#21

1,1-Dichloroethane

Concen: 19.030 ug/l

RT: 6.565 min Scan# 784

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

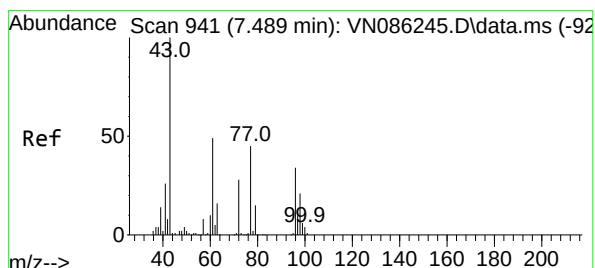
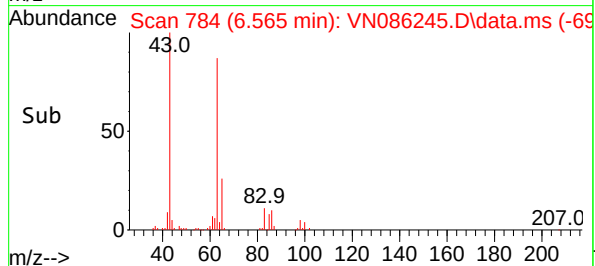
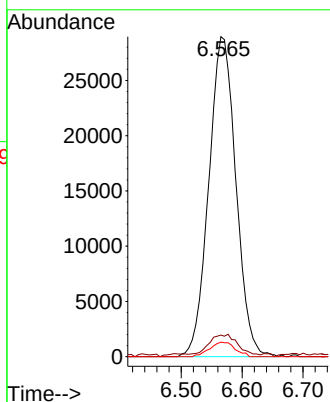
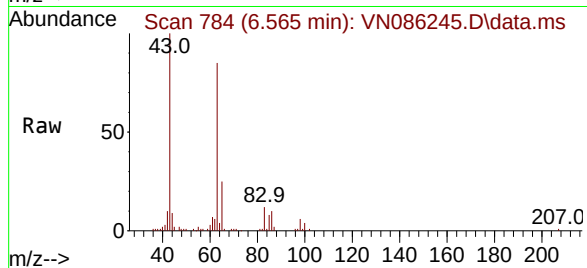
Tgt Ion:	63	Resp:	89720
Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.1	9.3
100	4.6	2.3	6.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#22

cis-1,2-Dichloroethene

Concen: 18.766 ug/l

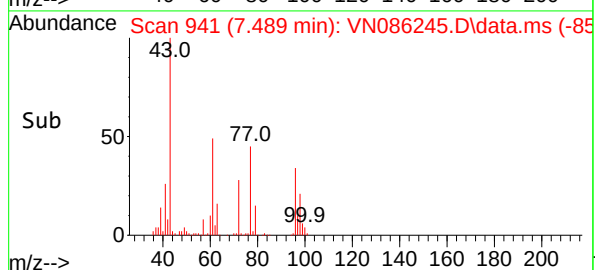
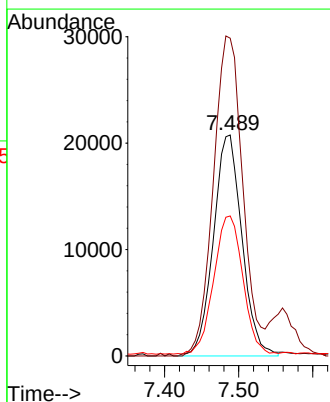
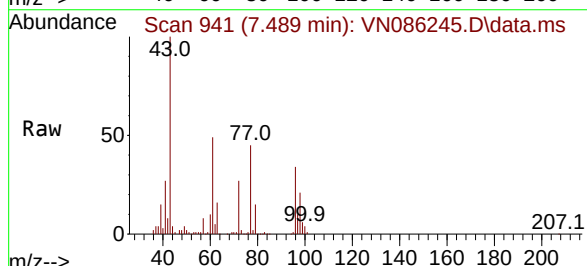
RT: 7.489 min Scan# 941

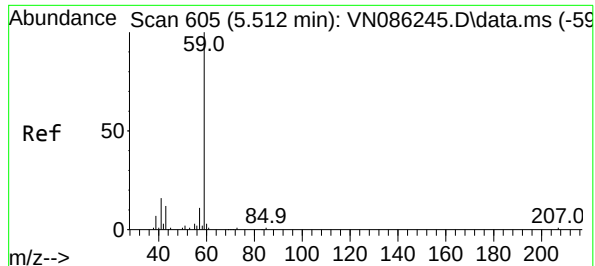
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	96	Resp:	55538
Ion	Ratio	Lower	Upper
96	100		
61	149.4	119.5	179.3
98	63.8	51.0	76.6





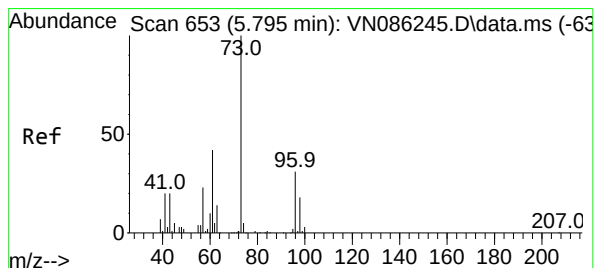
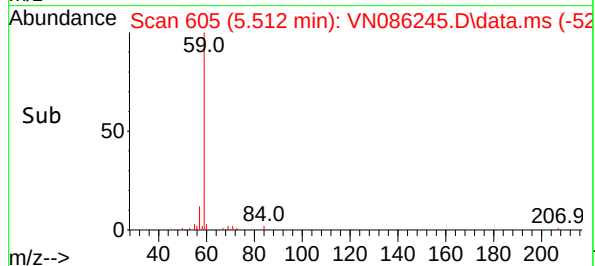
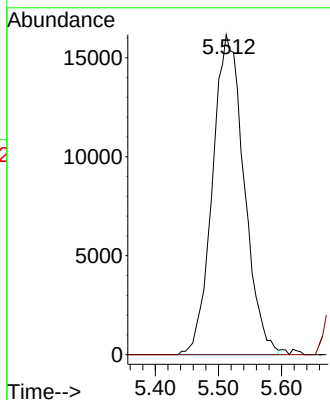
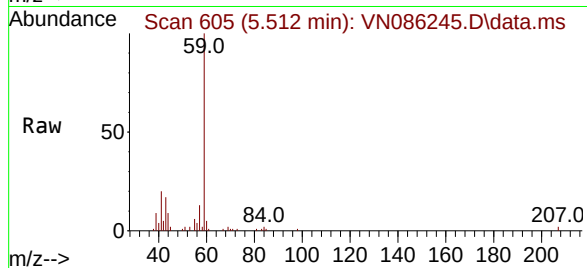
#23
tert-Butyl Alcohol
Concen: 96.582 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 59 Resp: 56269
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

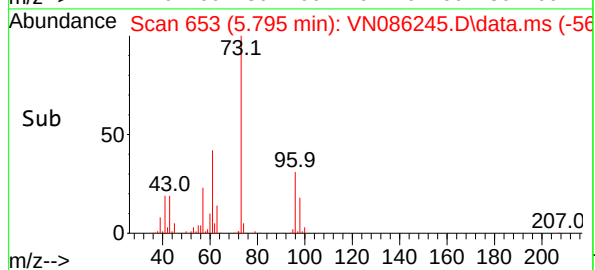
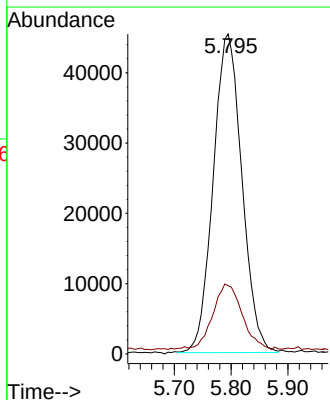
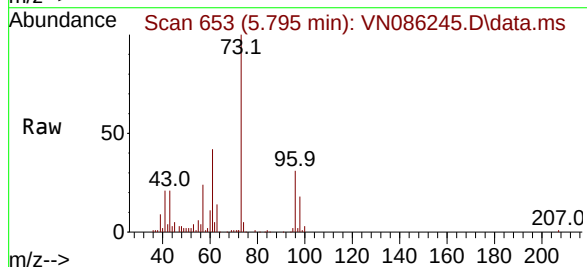
Manual Integrations
APPROVED

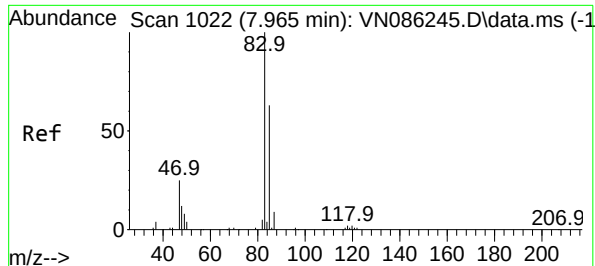
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#24
Methyl tert-Butyl Ether
Concen: 18.690 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 73 Resp: 158818
Ion Ratio Lower Upper
73 100
43 21.0 16.8 25.2





#25

Chloroform

Concen: 18.796 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 83 Resp: 8451

Ion Ratio Lower Upper

83 100

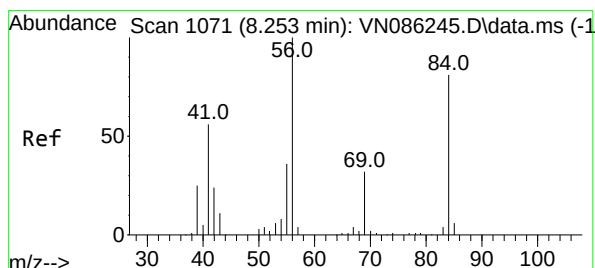
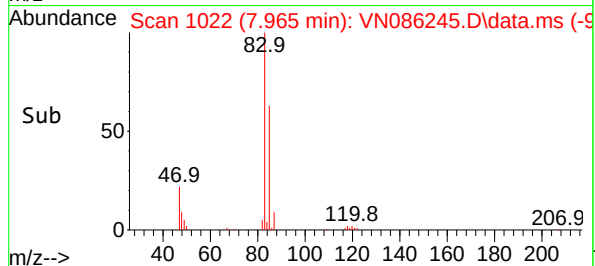
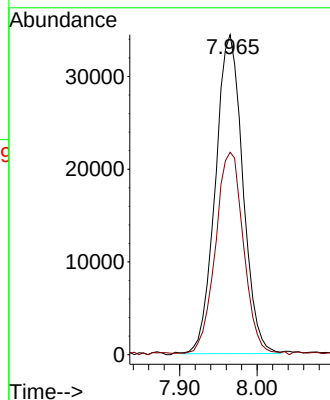
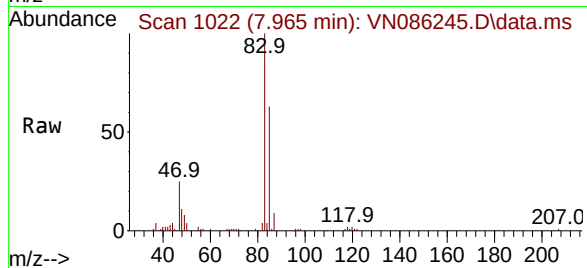
85 63.1 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#26

Cyclohexane

Concen: 18.462 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

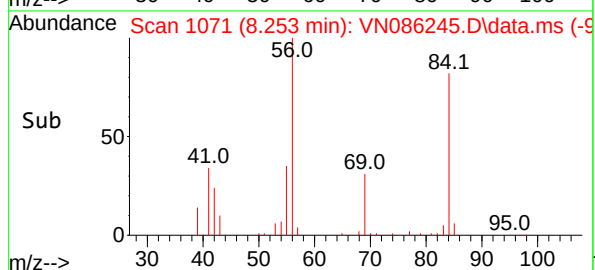
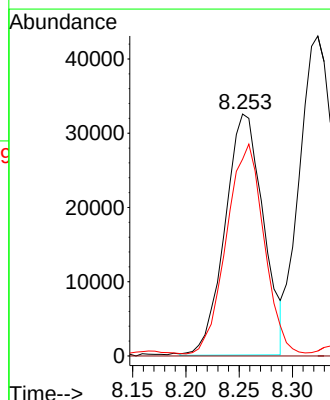
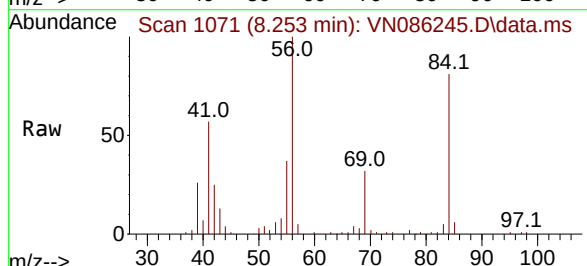
Tgt Ion: 56 Resp: 81442

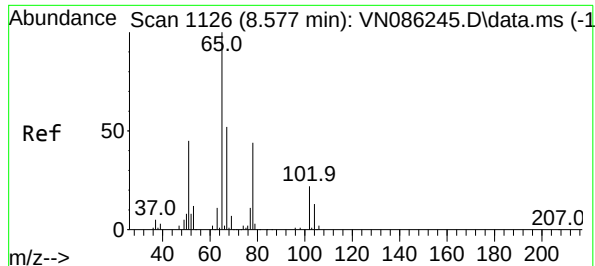
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 86.2 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 29.776 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 65 Resp: 89958

Ion Ratio Lower Upper

65 100

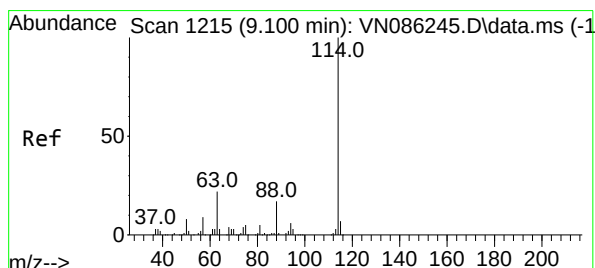
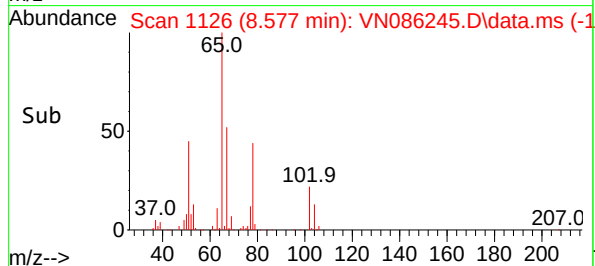
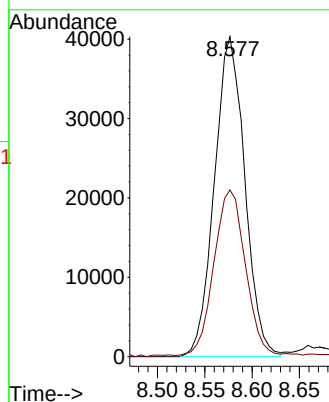
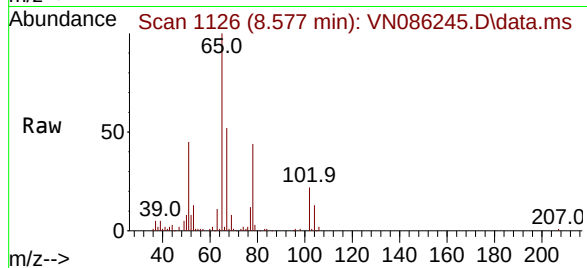
67 54.3 43.4 65.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

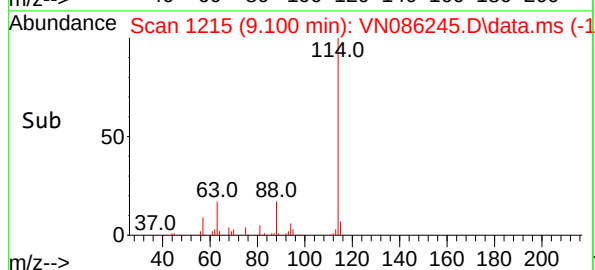
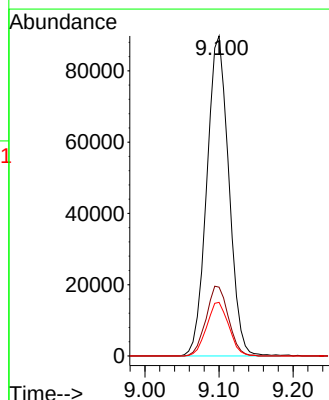
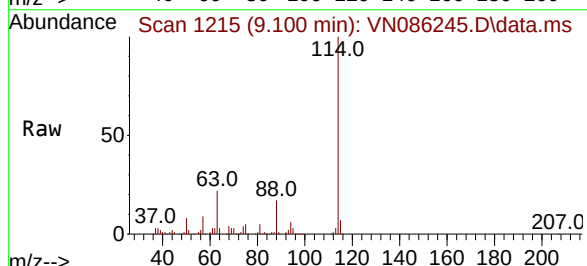
Tgt Ion:114 Resp: 185020

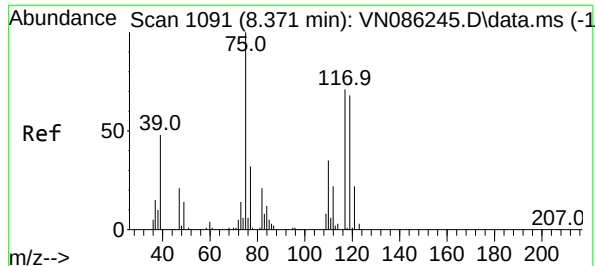
Ion Ratio Lower Upper

114 100

63 22.2 17.8 26.6

88 16.8 13.4 20.2





#29

1,1-Dichloropropene

Concen: 19.129 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

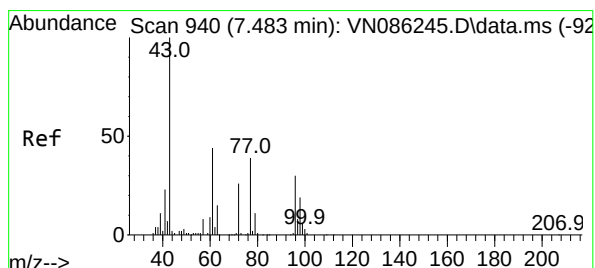
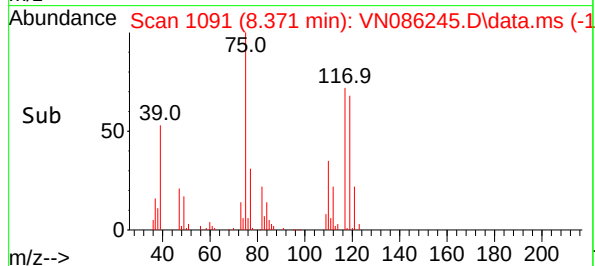
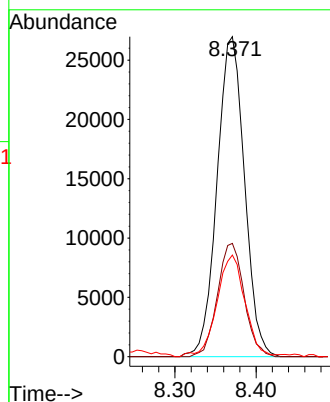
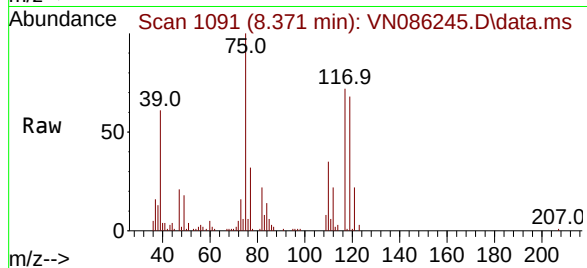
Tgt Ion: 75	Resp: 6340
Ion Ratio	Lower Upper
75	100
110	34.3 0.0 68.6
77	31.9 0.0 63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#30

2-Butanone

Concen: 97.263 ug/l

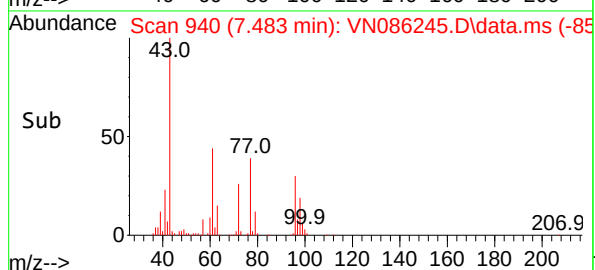
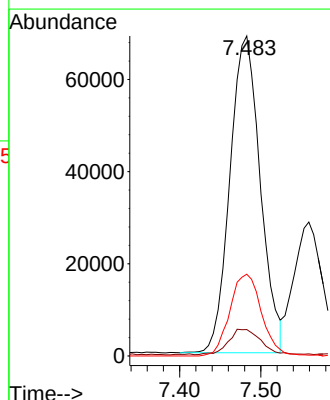
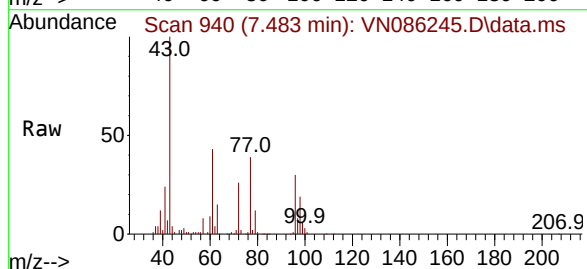
RT: 7.483 min Scan# 940

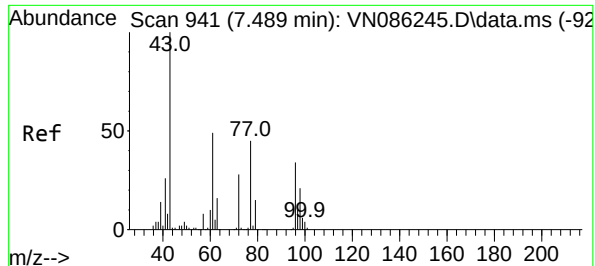
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion: 43	Resp: 178630
Ion Ratio	Lower Upper
43	100
57	8.0 6.4 9.6
72	26.9 21.5 32.3





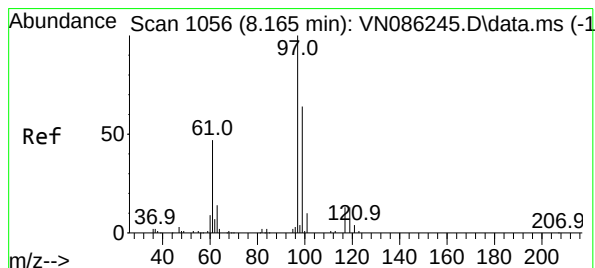
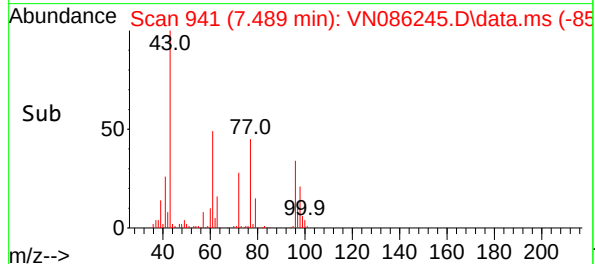
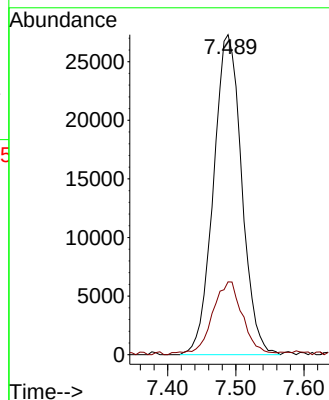
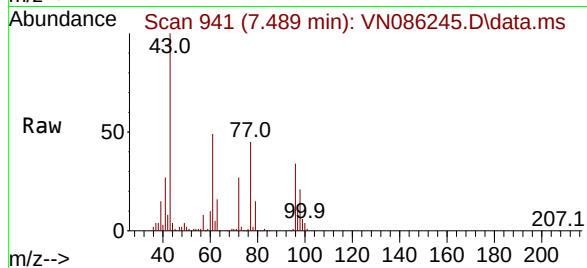
#31
2,2-Dichloropropane
Concen: 19.298 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 77 Resp: 7873
Ion Ratio Lower Upper
77 100
97 23.5 18.8 28.2

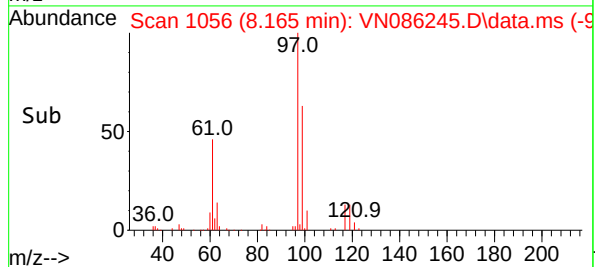
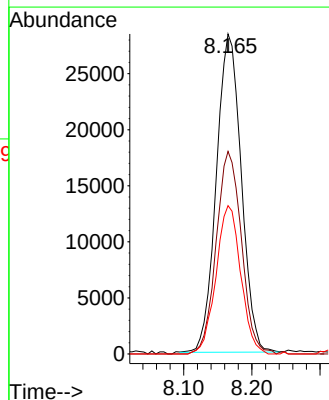
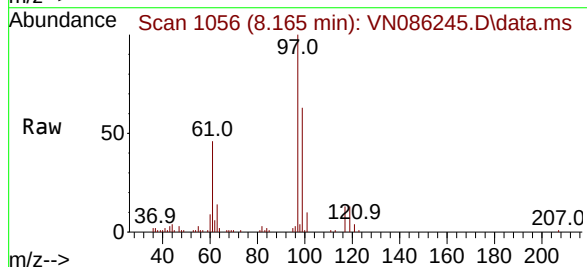
Manual Integrations
APPROVED

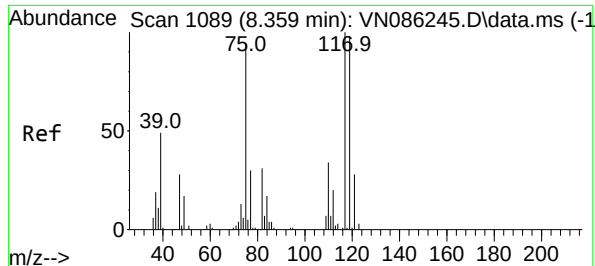
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#32
1,1,1-Trichloroethane
Concen: 18.945 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 97 Resp: 72230
Ion Ratio Lower Upper
97 100
99 64.3 51.4 77.2
61 46.3 37.0 55.6





#33

Carbon Tetrachloride

Concen: 19.114 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:117 Resp: 58240

Ion Ratio Lower Upper

117 100

119 97.9 78.3 117.5

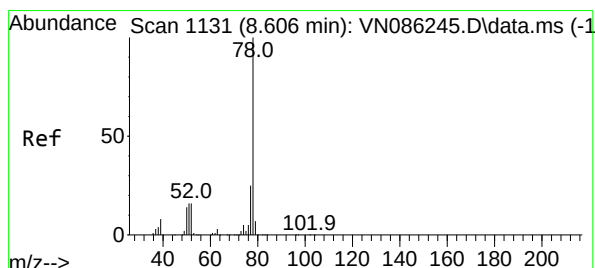
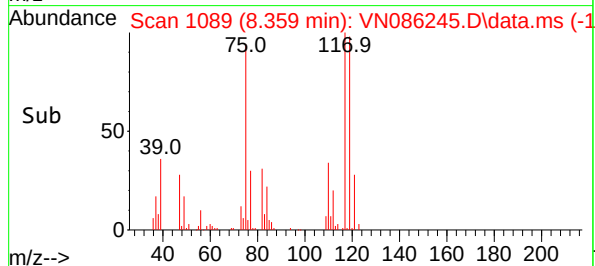
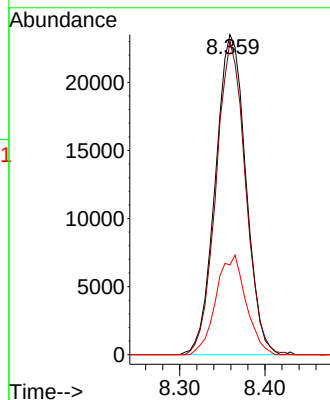
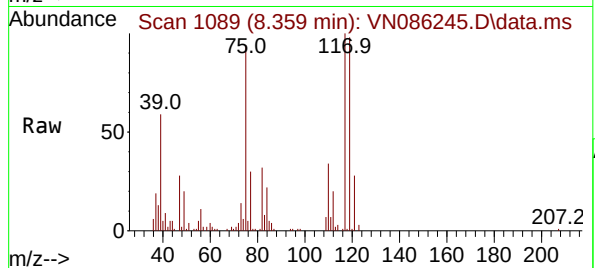
121 28.1 22.5 33.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#34

Benzene

Concen: 19.103 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

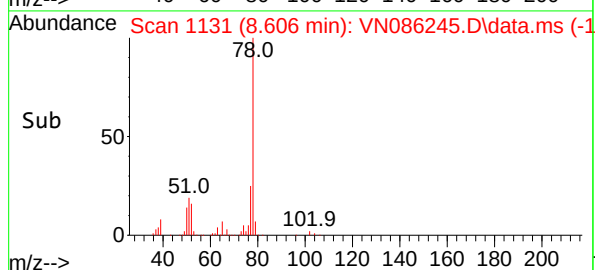
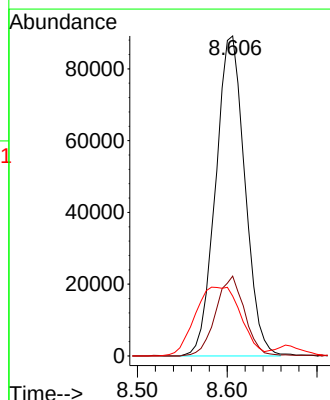
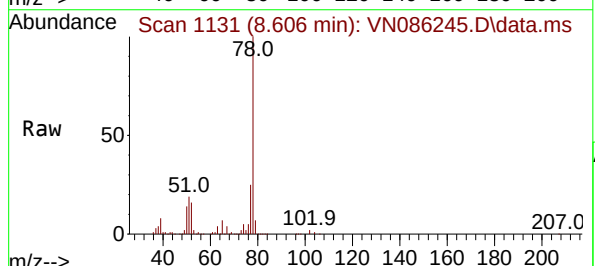
Tgt Ion: 78 Resp: 201431

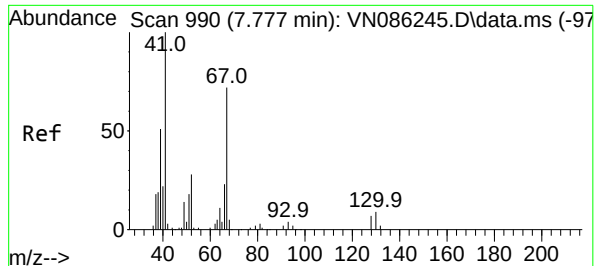
Ion Ratio Lower Upper

78 100

77 25.0 20.0 30.0

51 16.1 12.9 19.3





#35

Methacrylonitrile

Concen: 18.953 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 41 Resp: 3924

Ion Ratio Lower Upper

41 100

39 51.5 25.8 77.3

67 72.0 36.0 108.0

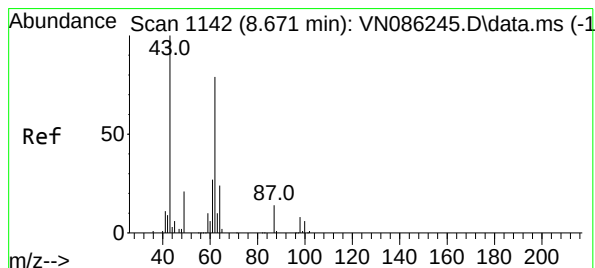
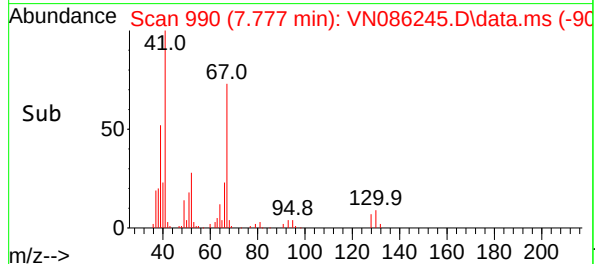
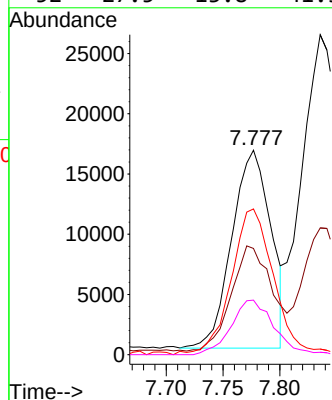
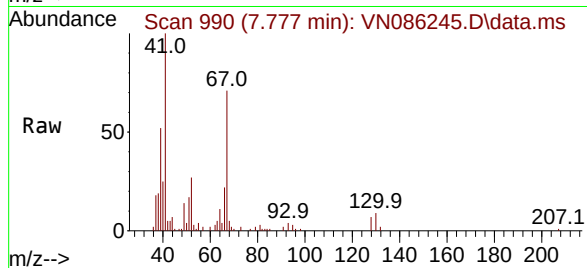
52 27.5 13.8 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#36

1,2-Dichloroethane

Concen: 19.124 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN086245.D

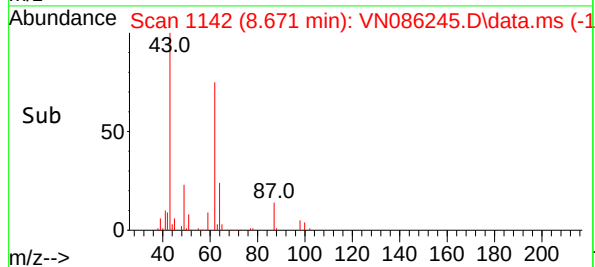
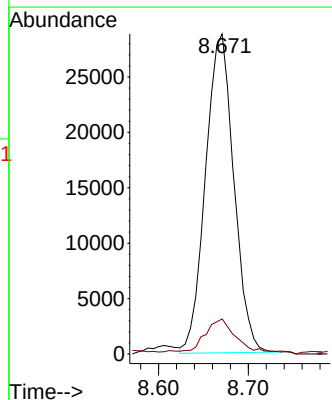
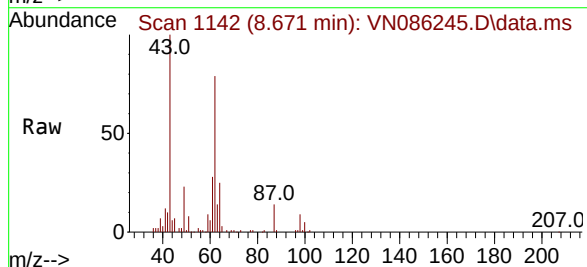
Acq: 11 Apr 2025 12:16

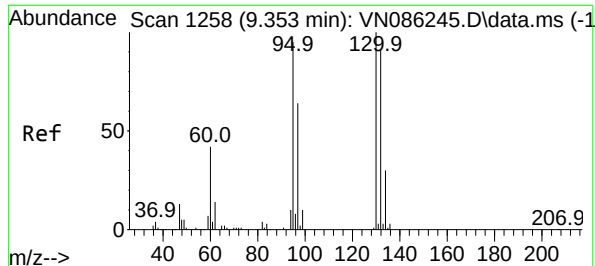
Tgt Ion: 62 Resp: 63104

Ion Ratio Lower Upper

62 100

98 10.7 8.6 12.8





#37

Trichloroethene

Concen: 19.215 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:130 Resp: 4888

Ion Ratio Lower Upper

130 100

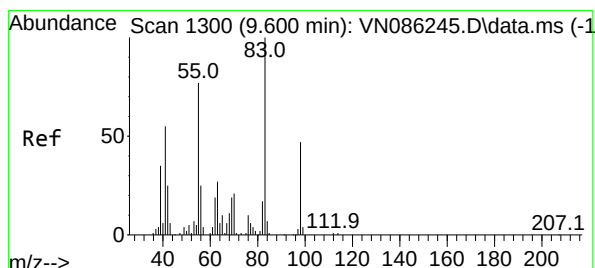
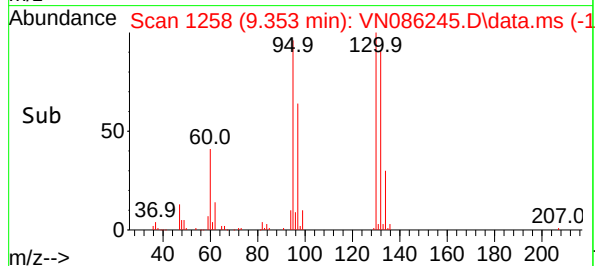
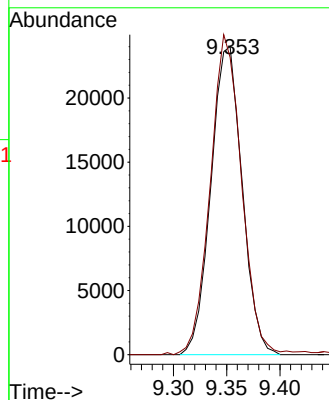
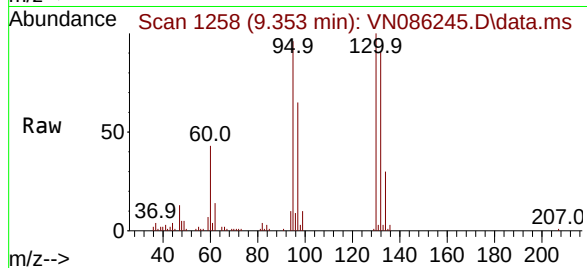
95 95.5 76.4 114.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#38

Methylcyclohexane

Concen: 18.695 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

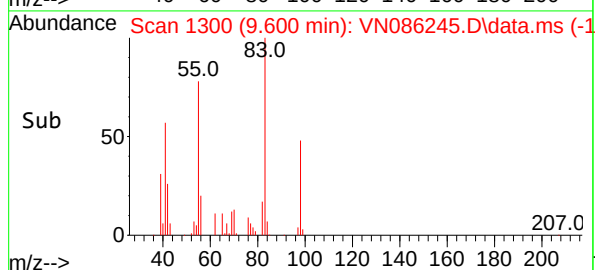
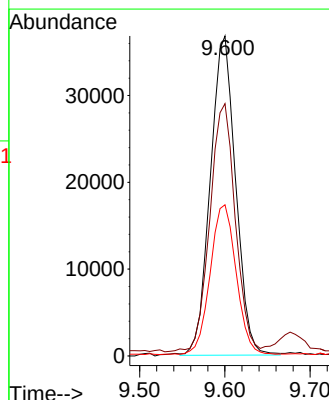
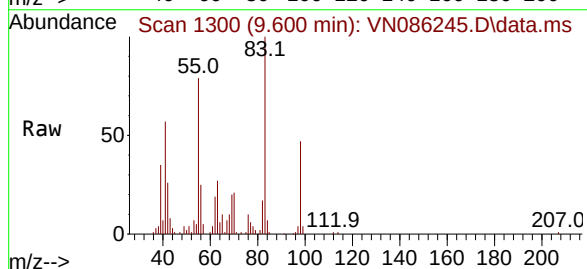
Tgt Ion: 83 Resp: 75994

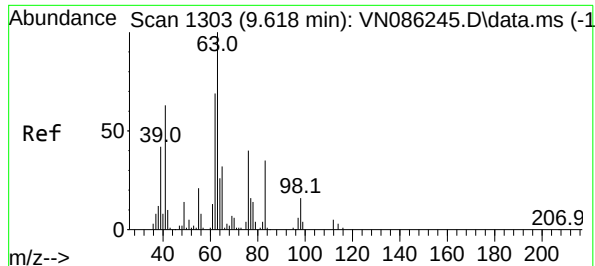
Ion Ratio Lower Upper

83 100

55 77.0 38.5 115.5

98 48.8 24.4 73.2





#39

1,2-Dichloropropane

Concen: 19.028 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 63 Resp: 4992

Ion Ratio Lower Upper

63 100

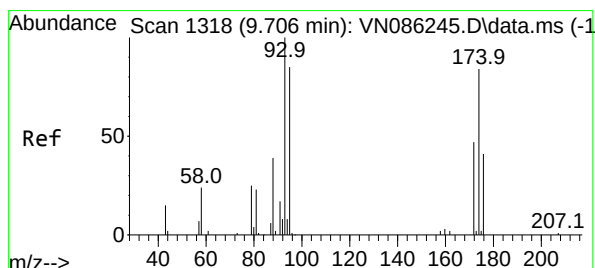
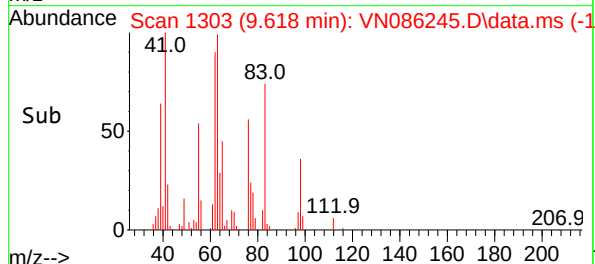
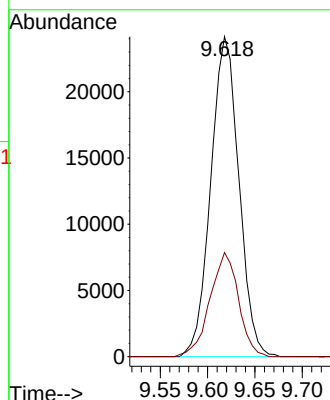
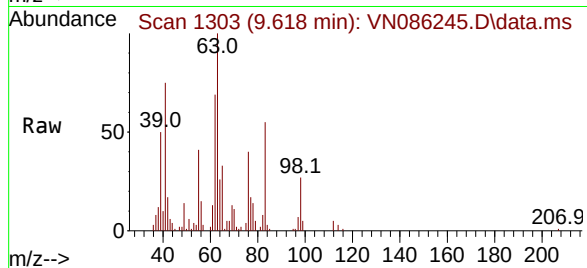
65 32.5 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 18.960 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

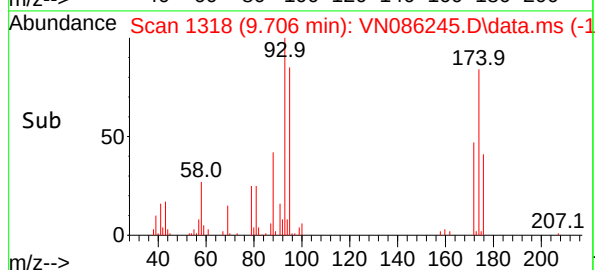
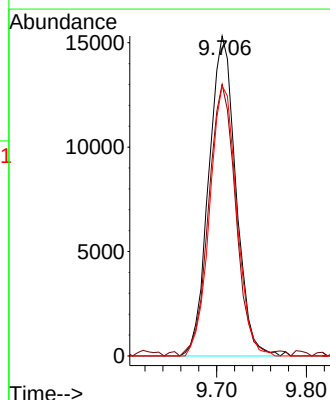
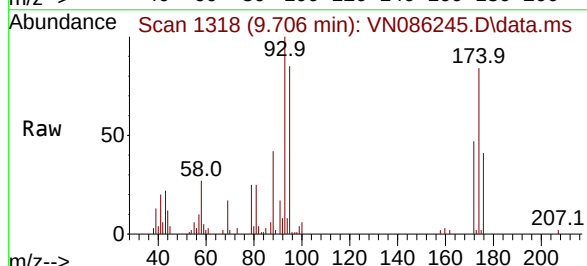
Tgt Ion: 93 Resp: 32130

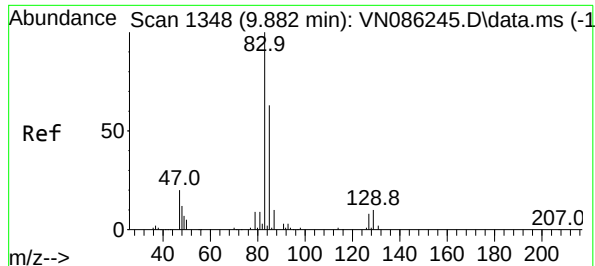
Ion Ratio Lower Upper

93 100

95 84.5 0.0 169.0

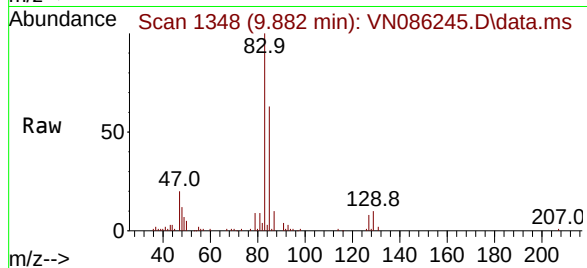
174 84.0 0.0 168.0





#41
Bromodichloromethane
Concen: 19.149 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

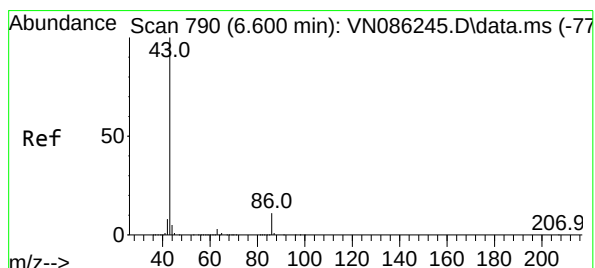
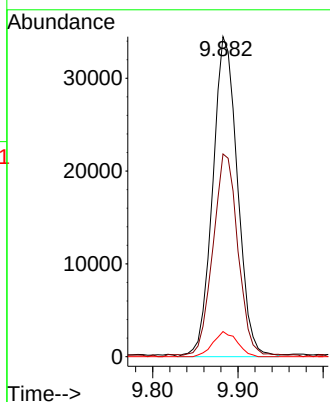
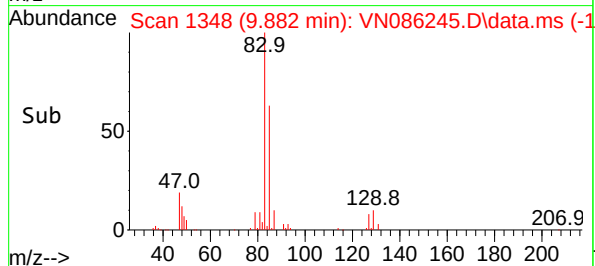
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 83 Resp: 6971
Ion Ratio Lower Upper
83 100
85 62.7 50.2 75.2
127 7.8 6.2 9.4

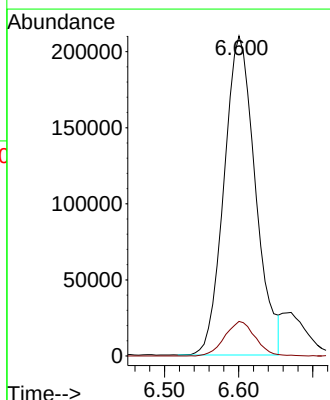
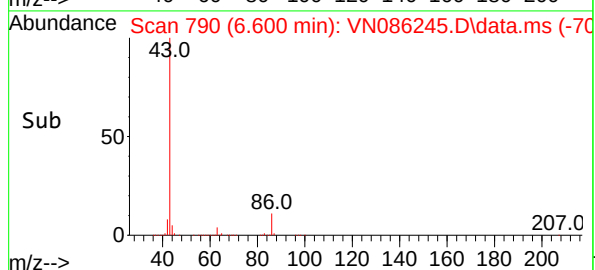
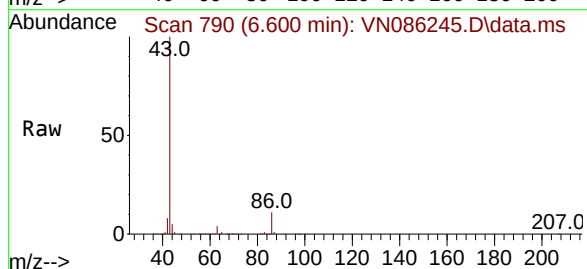
Manual Integrations
APPROVED

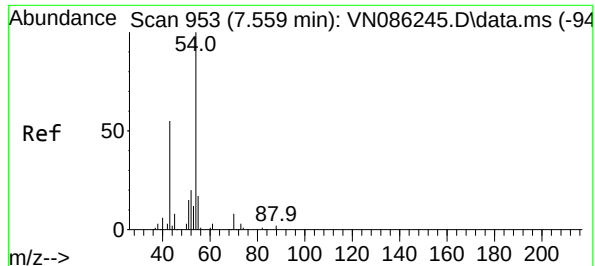
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 98.633 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 43 Resp: 616622
Ion Ratio Lower Upper
43 100
86 10.5 8.4 12.6





#43

Ethyl Acetate

Concen: 19.607 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 7263

Ion Ratio Lower Upper

43 100

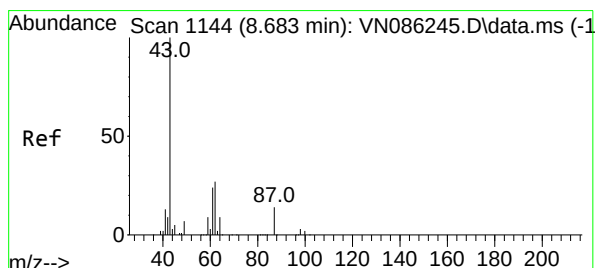
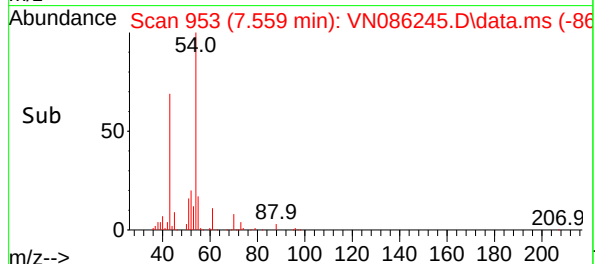
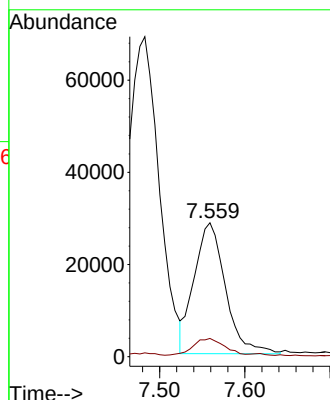
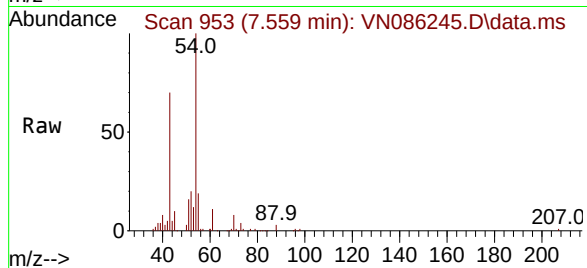
45 14.0 11.2 16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#44

Isopropyl Acetate

Concen: 18.850 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN086245.D

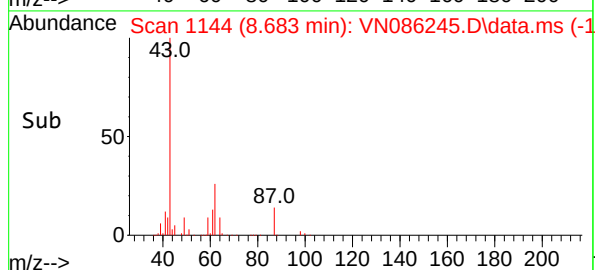
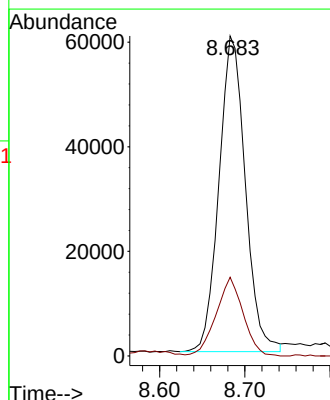
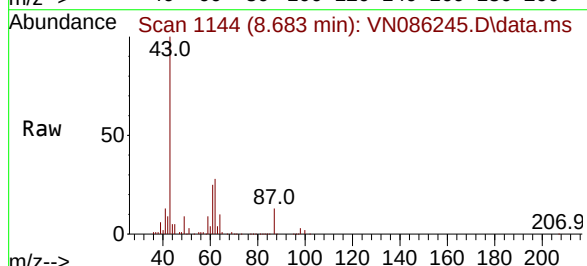
Acq: 11 Apr 2025 12:16

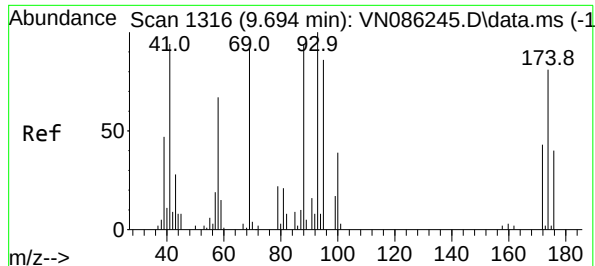
Tgt Ion: 43 Resp: 129543

Ion Ratio Lower Upper

43 100

61 25.6 20.5 30.7





#45

1,4-Dioxane

Concen: 386.736 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 88 Resp: 21134

Ion Ratio Lower Upper

88 100

43 18.0 14.4 21.6

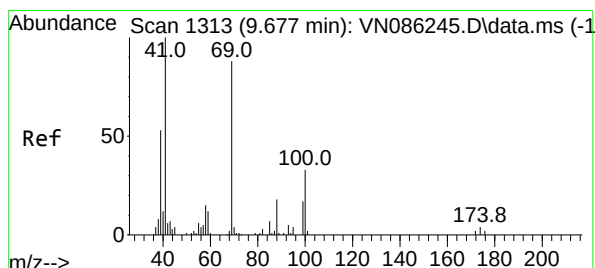
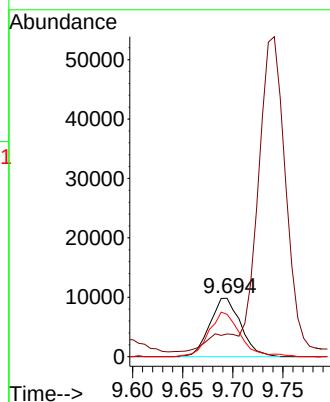
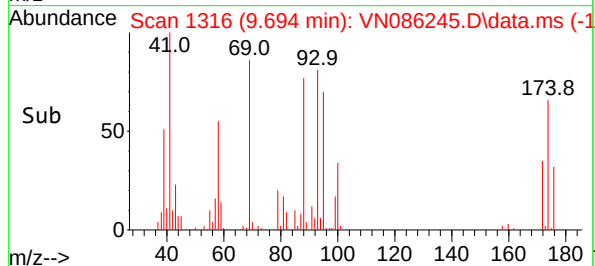
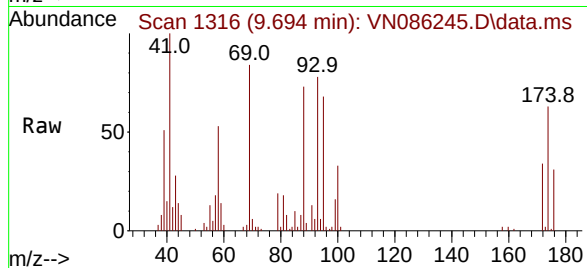
58 74.8 59.8 89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#46

Methyl methacrylate

Concen: 19.192 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

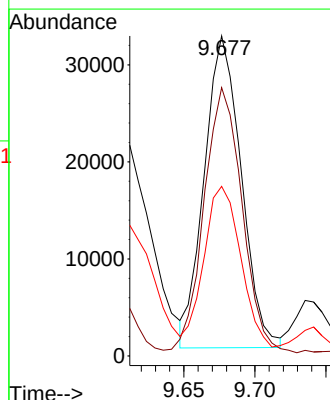
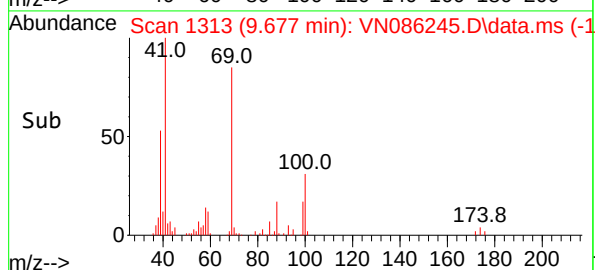
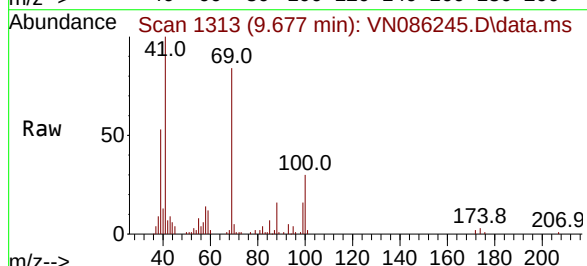
Tgt Ion: 41 Resp: 58112

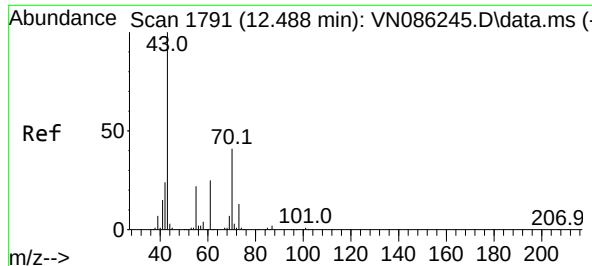
Ion Ratio Lower Upper

41 100

69 86.4 43.2 129.6

39 52.7 26.4 79.0





#47

n-amy1 Acetate

Concen: 18.304 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion: 43 Resp: 10163

Ion Ratio Lower Upper

43 100

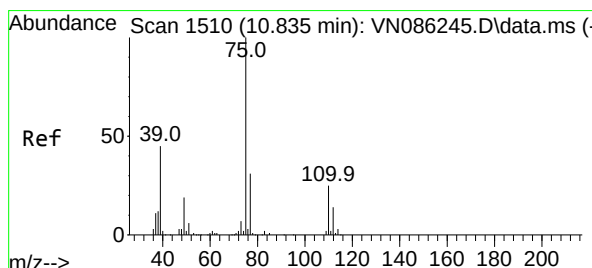
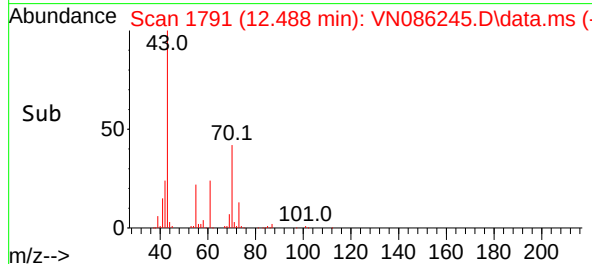
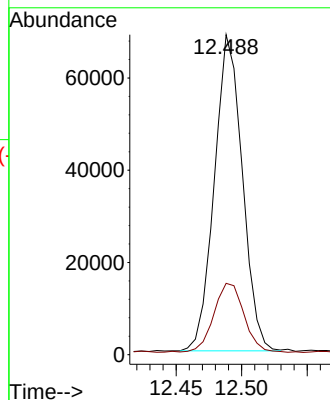
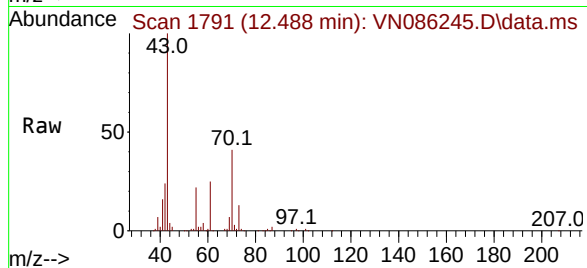
55 23.7 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#48

t-1,3-Dichloropropene

Concen: 18.977 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN086245.D

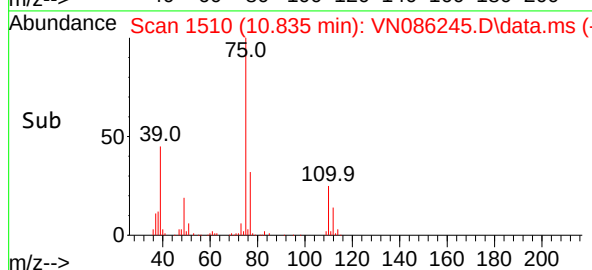
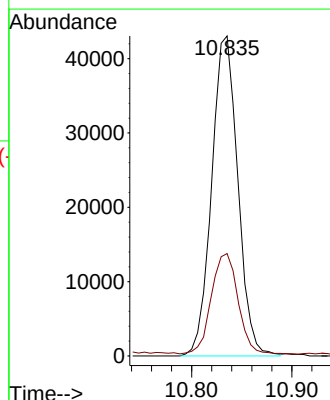
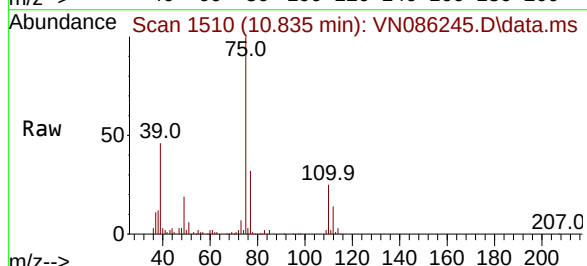
Acq: 11 Apr 2025 12:16

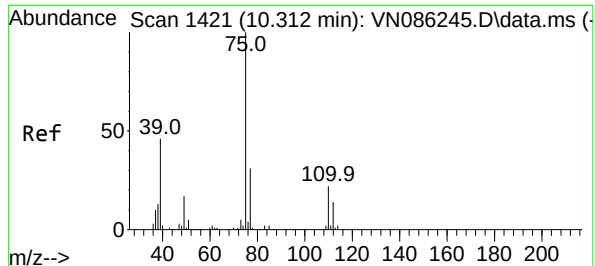
Tgt Ion: 75 Resp: 78104

Ion Ratio Lower Upper

75 100

77 31.4 25.1 37.7





#49

cis-1,3-Dichloropropene

Concen: 19.170 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

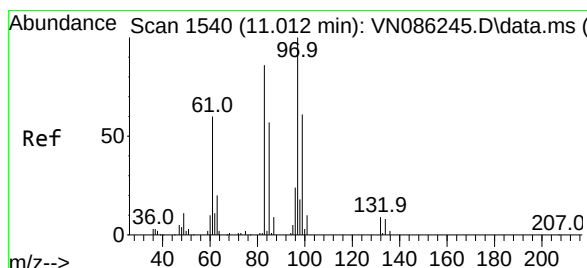
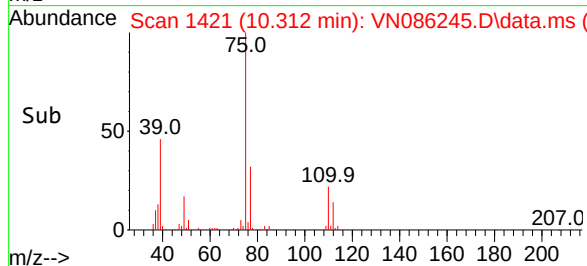
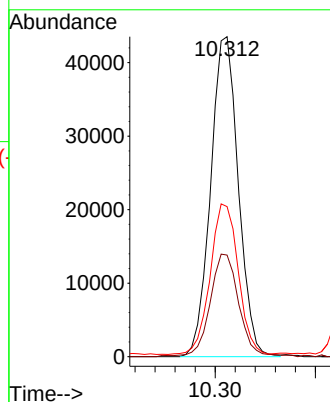
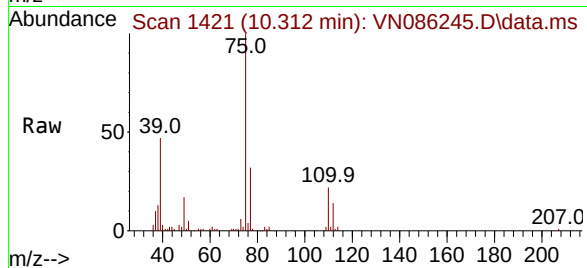
VSTDICCC020

Tgt Ion:	75	Resp:	8350
Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.0	37.4
39	45.9	36.7	55.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#50

1,1,2-Trichloroethane

Concen: 19.308 ug/l

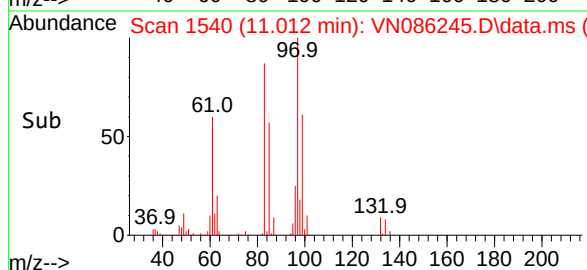
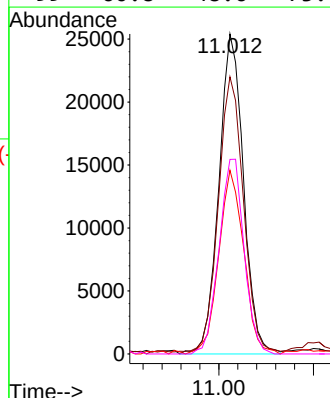
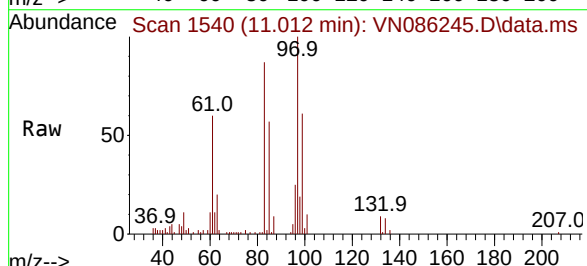
RT: 11.012 min Scan# 1540

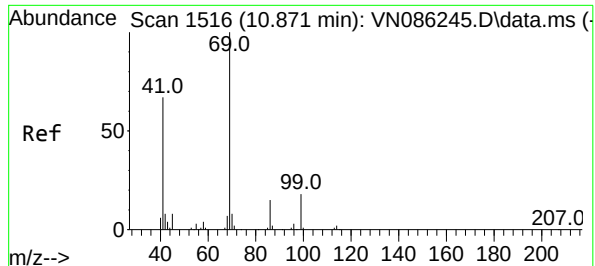
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

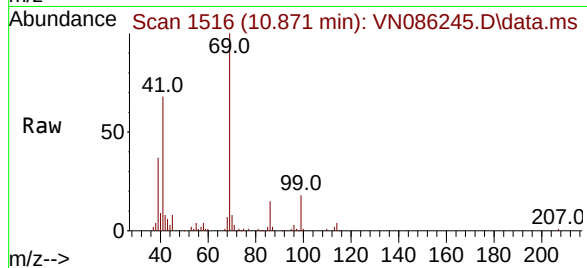
Tgt Ion:	97	Resp:	45892
Ion	Ratio	Lower	Upper
97	100		
83	85.8	68.6	103.0
85	57.4	45.9	68.9
99	60.8	48.6	73.0





#51
Ethyl methacrylate
Concen: 19.027 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

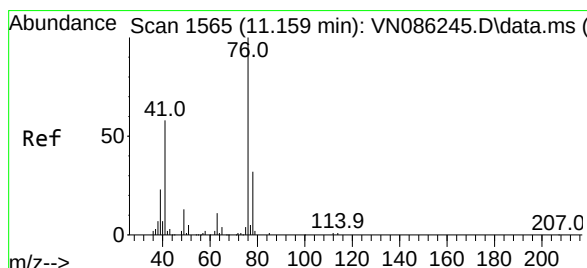
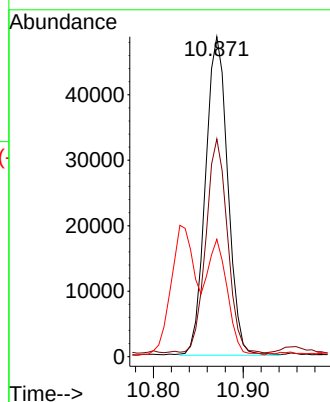
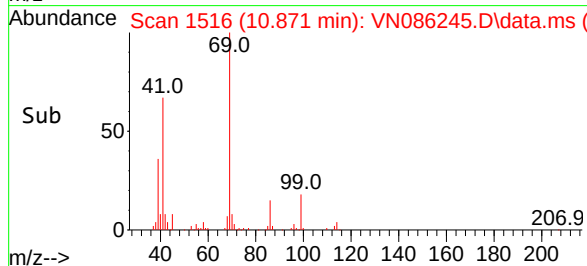
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 69 Resp: 84042
Ion Ratio Lower Upper
69 100
41 67.1 33.6 100.6
39 35.6 17.8 53.4

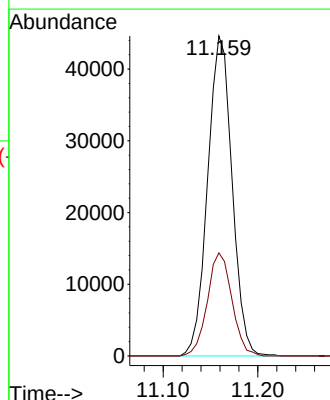
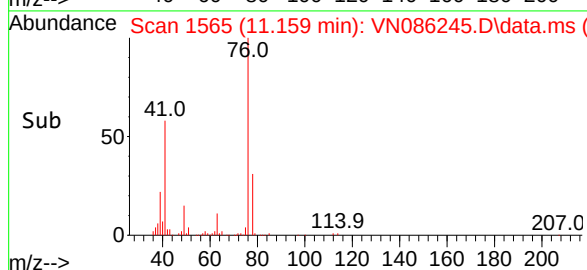
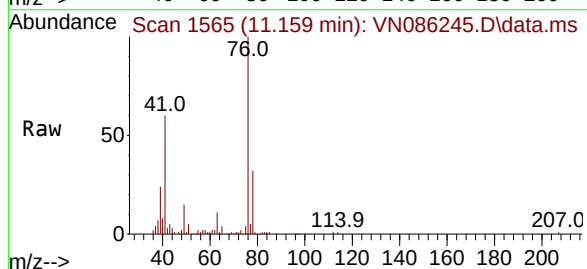
Manual Integrations
APPROVED

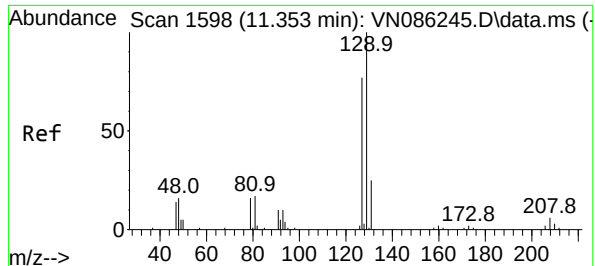
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 18.875 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

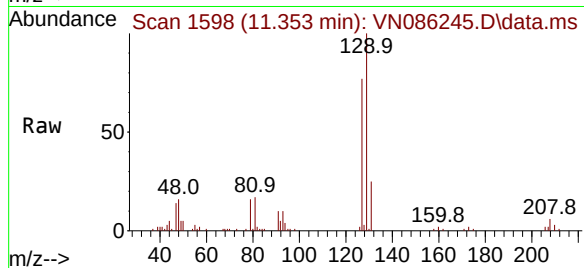
Tgt Ion: 76 Resp: 79960
Ion Ratio Lower Upper
76 100
78 32.3 0.0 64.6





#53
Dibromochloromethane
Concen: 19.190 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

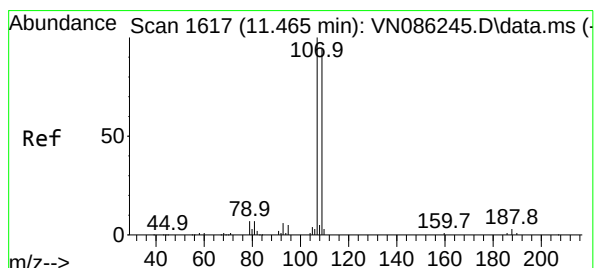
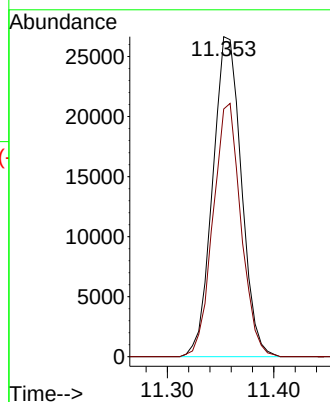
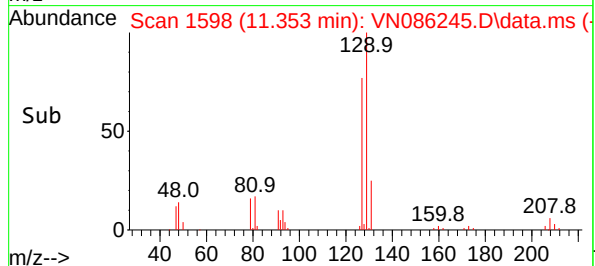
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:129 Resp: 49892
Ion Ratio Lower Upper
129 100
127 77.0 38.5 115.5

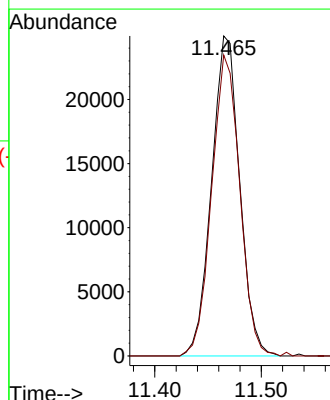
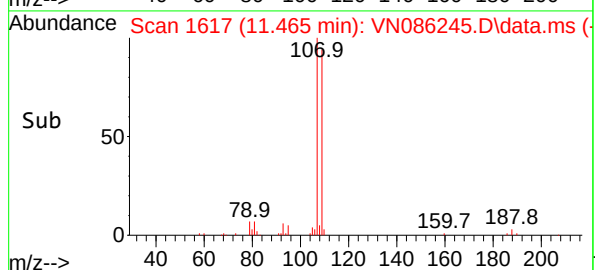
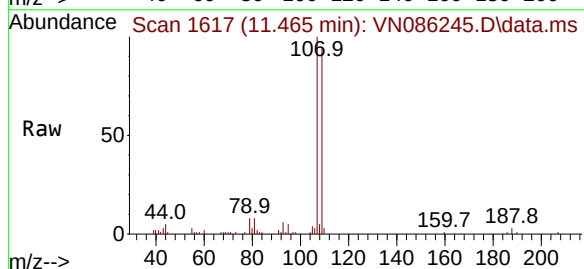
Manual Integrations
APPROVED

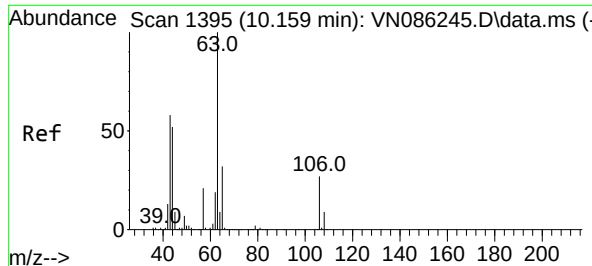
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#54
1,2-Dibromoethane
Concen: 19.034 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:107 Resp: 45668
Ion Ratio Lower Upper
107 100
109 94.0 75.2 112.8





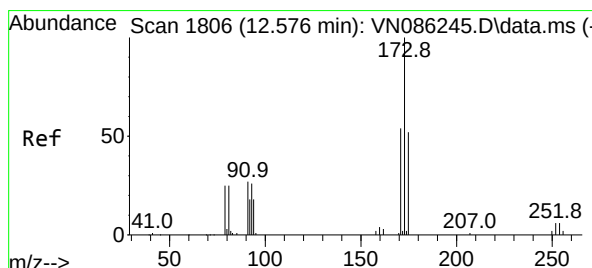
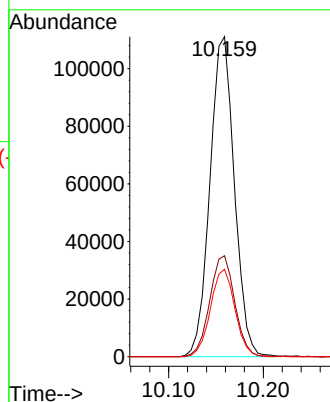
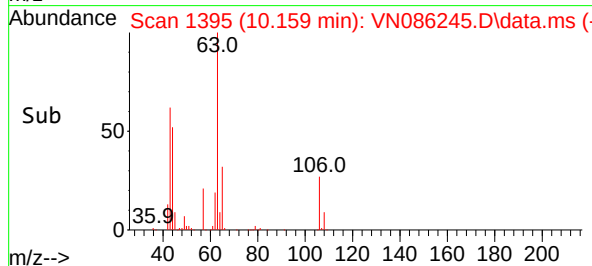
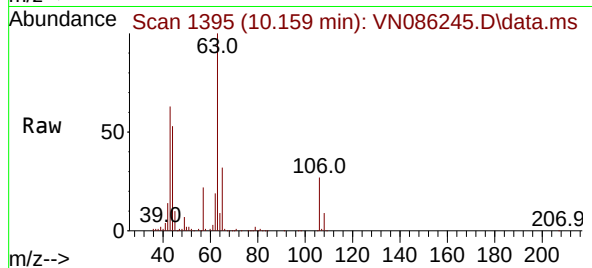
#55
2-Chloroethyl vinyl ether
Concen: 119.582 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 63 Resp: 199584
Ion Ratio Lower Upper
63 100
65 32.3 25.8 38.8
106 27.3 21.8 32.8

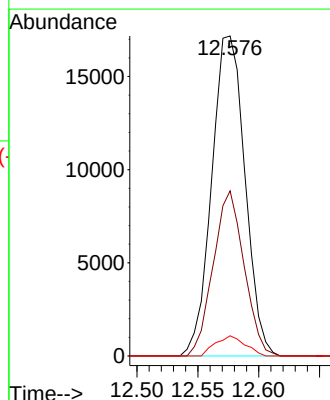
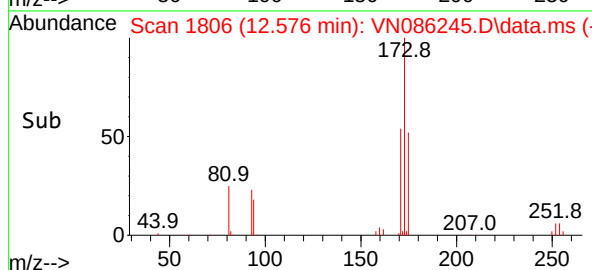
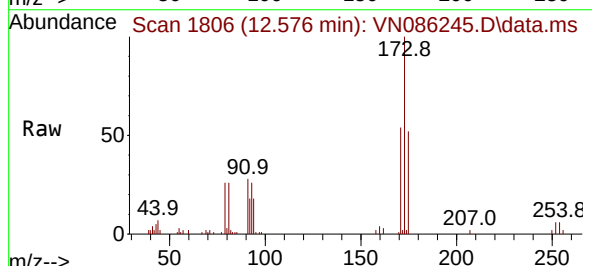
Manual Integrations
APPROVED

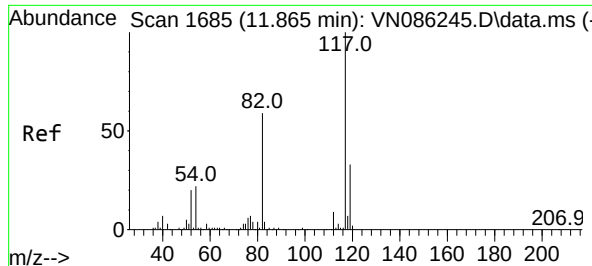
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#56
Bromoform
Concen: 19.173 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

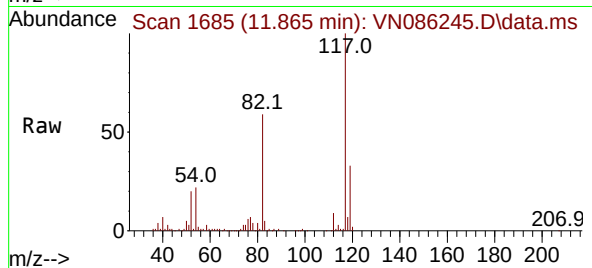
Tgt Ion:173 Resp: 32612
Ion Ratio Lower Upper
173 100
175 47.8 38.2 57.4
254 5.6 4.5 6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

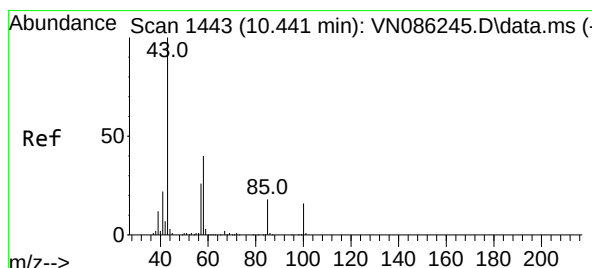
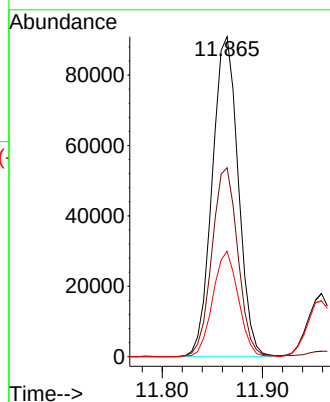
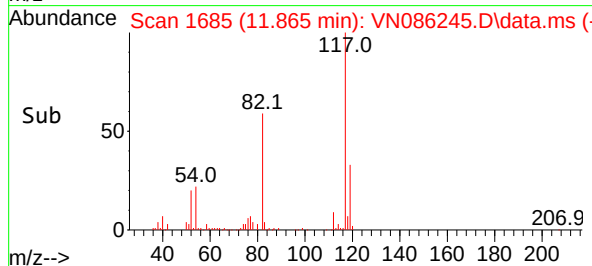
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion: 117 Resp: 16390
Ion Ratio Lower Upper
117 100
82 59.1 47.3 70.9
119 32.4 25.9 38.9

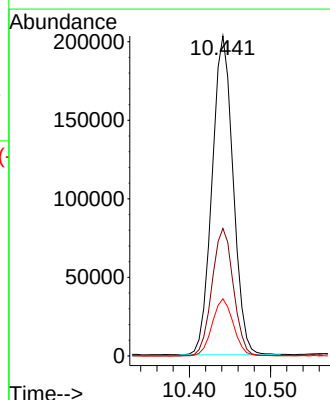
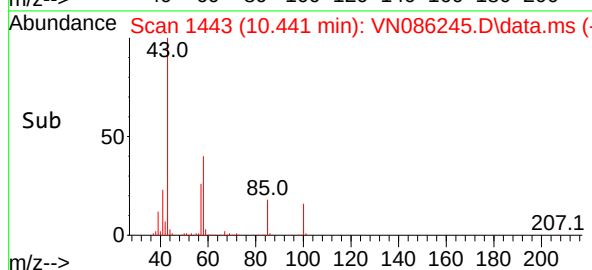
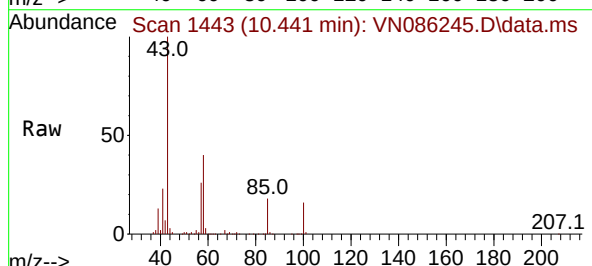
Manual Integrations
APPROVED

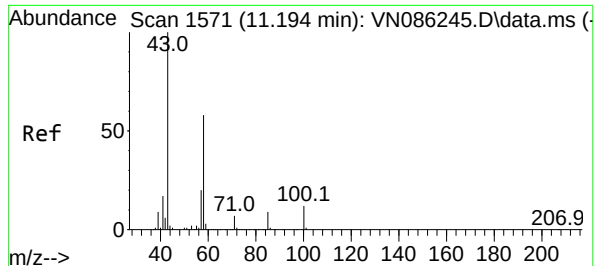
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#58
4-Methyl-2-Pentanone
Concen: 98.554 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 43 Resp: 366576
Ion Ratio Lower Upper
43 100
58 40.6 32.5 48.7
85 18.0 14.4 21.6





#59

2-Hexanone

Concen: 97.984 ug/l

RT: 11.194 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN086245.D

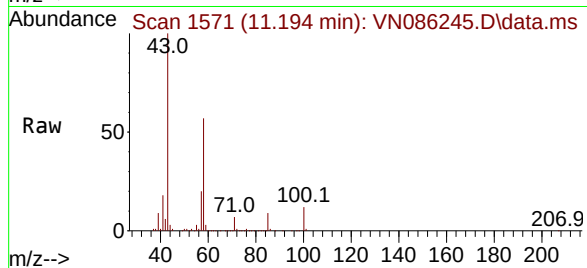
Acq: 11 Apr 2025 12:16

Instrument :

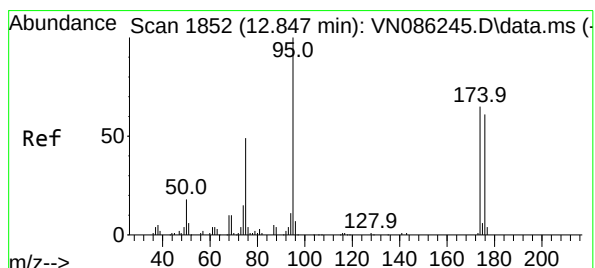
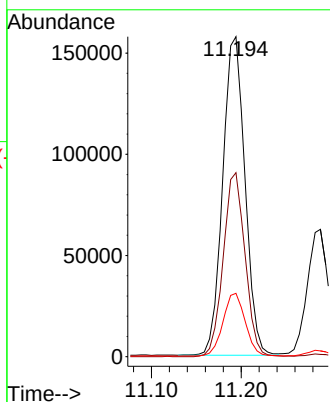
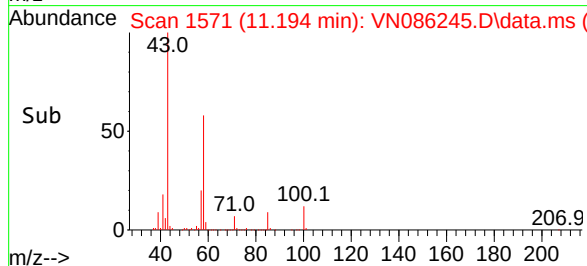
MSVOA_N

ClientSampleId :

VSTDICCC020



Tgt Ion:	43	Resp:	271384
Ion	Ratio	Lower	Upper
43	100		
58	56.6	45.3	67.9
57	19.7	15.8	23.6

Manual Integrations
APPROVEDReviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

#60

4-Bromofluorobenzene

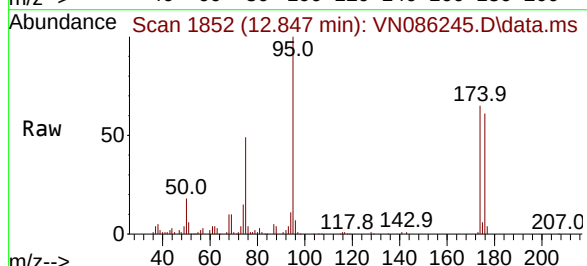
Concen: 29.820 ug/l

RT: 12.847 min Scan# 1852

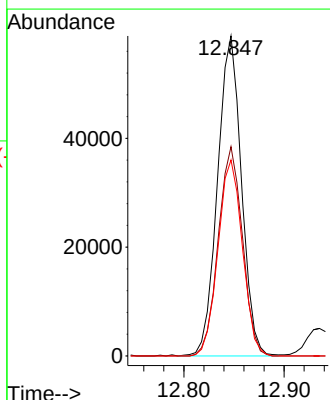
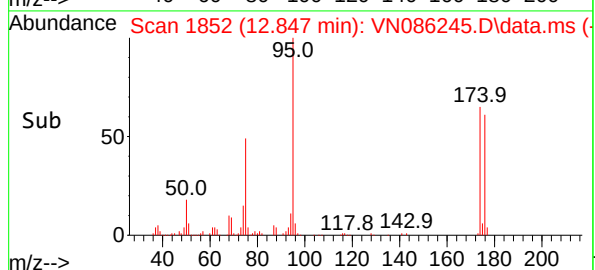
Delta R.T. 0.000 min

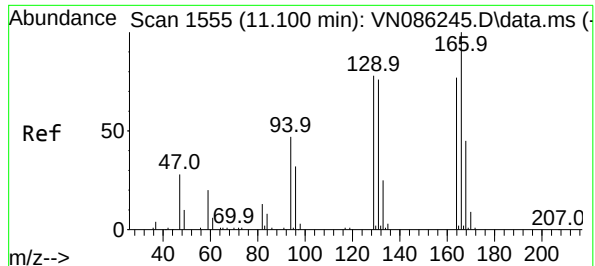
Lab File: VN086245.D

Acq: 11 Apr 2025 12:16



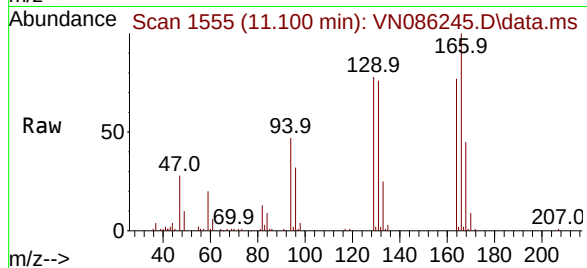
Tgt Ion:	95	Resp:	97314
Ion	Ratio	Lower	Upper
95	100		
174	65.9	52.7	79.1
176	62.3	49.8	74.8





#61
Tetrachloroethene
Concen: 19.134 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

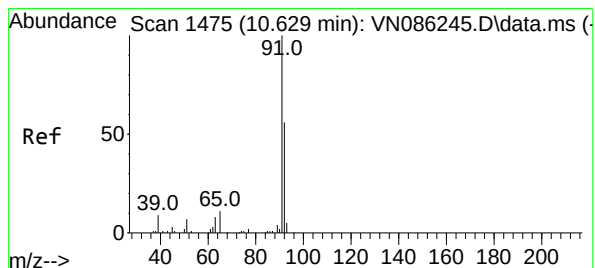
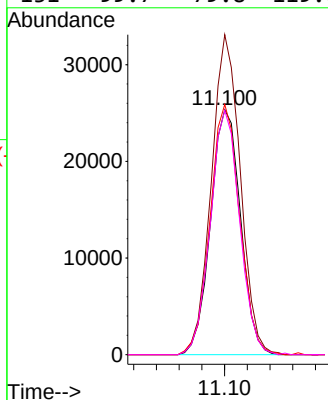
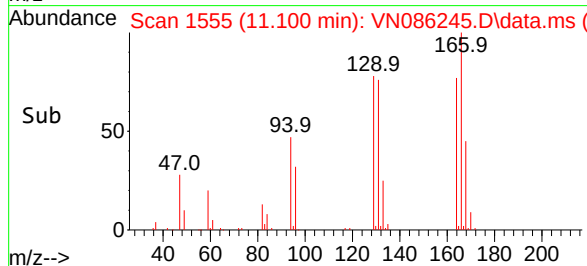
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:164 Resp: 4631
Ion Ratio Lower Upper
164 100
166 130.6 104.5 156.7
129 102.1 81.7 122.5
131 99.7 79.8 119.6

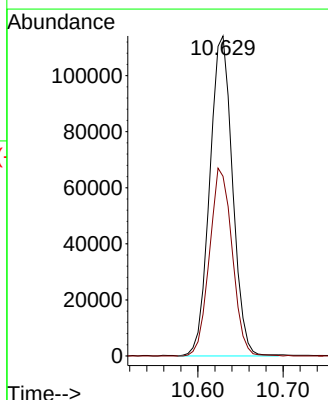
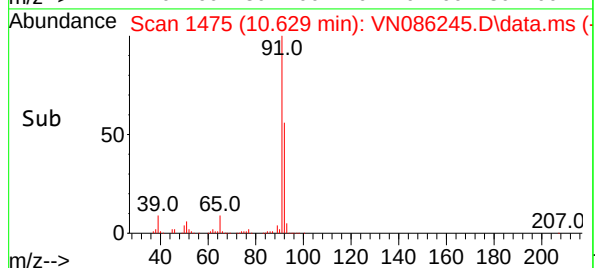
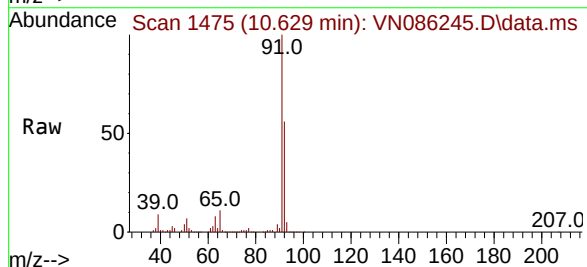
Manual Integrations
APPROVED

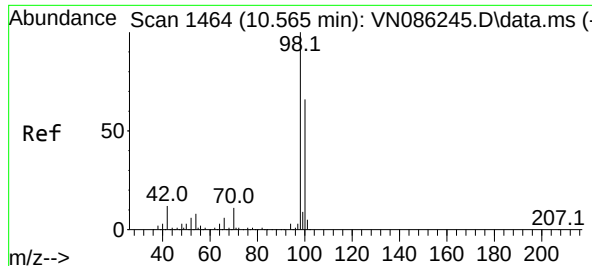
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 19.292 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 91 Resp: 212088
Ion Ratio Lower Upper
91 100
92 58.5 46.8 70.2





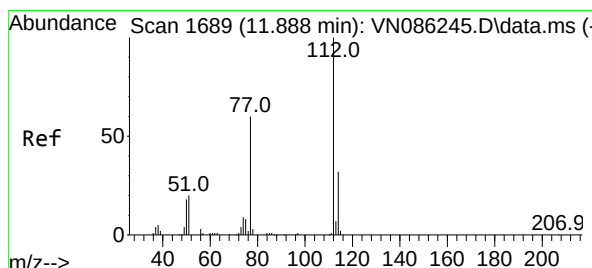
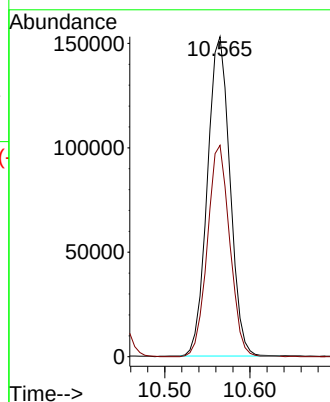
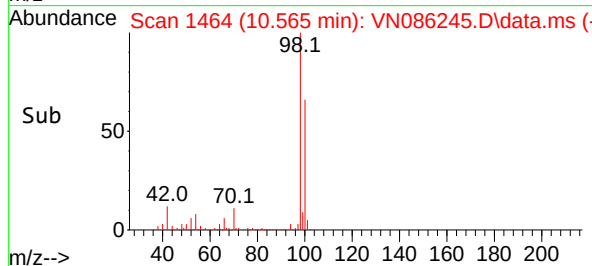
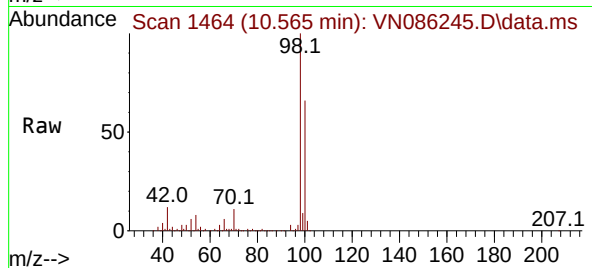
#63
Toluene-d8
Concen: 30.431 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 98 Resp: 281589
Ion Ratio Lower Upper
98 100
100 65.4 52.3 78.5

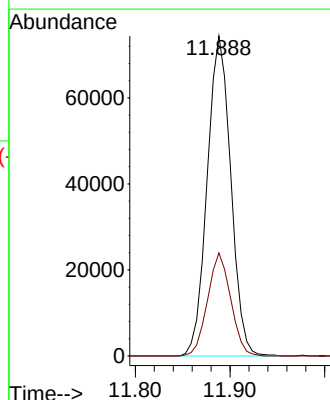
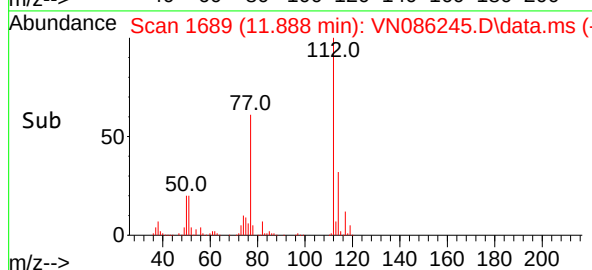
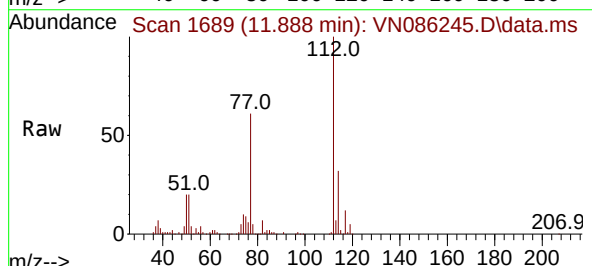
Manual Integrations
APPROVED

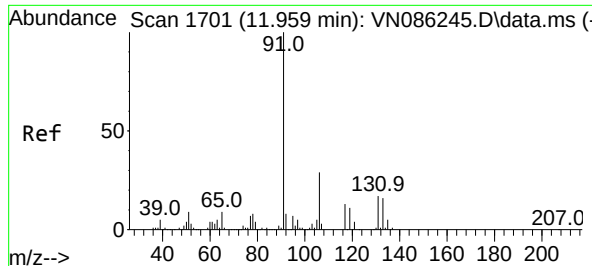
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 19.188 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

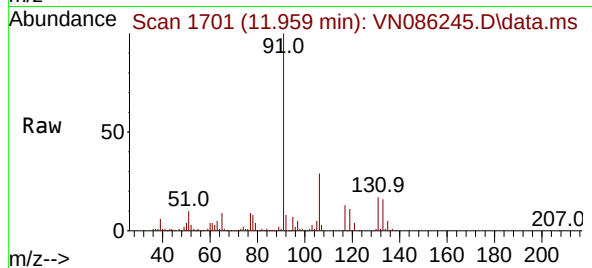
Tgt Ion:112 Resp: 128877
Ion Ratio Lower Upper
112 100
114 32.2 25.8 38.6





#65
1,1,1,2-Tetrachloroethane
Concen: 19.244 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

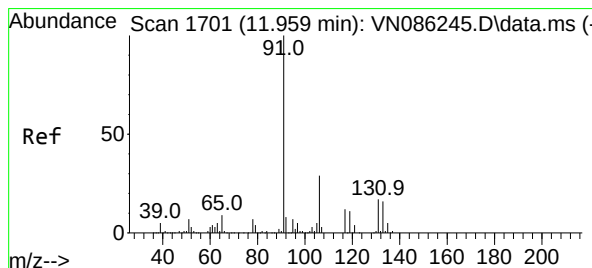
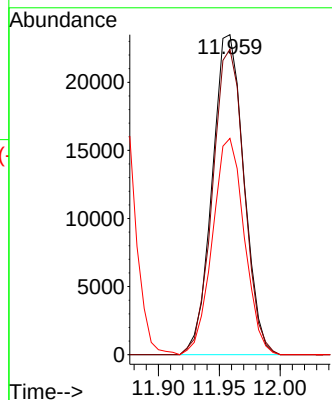
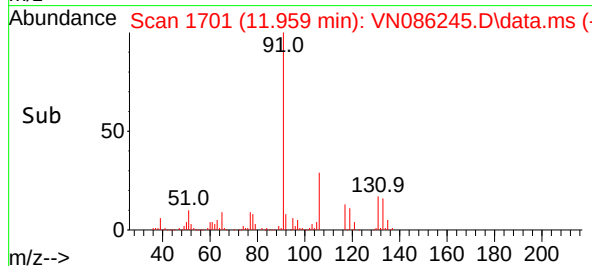
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:131 Resp: 42650
Ion Ratio Lower Upper
131 100
133 95.2 0.0 190.4
119 67.8 0.0 135.6

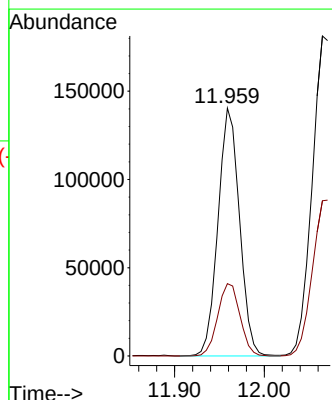
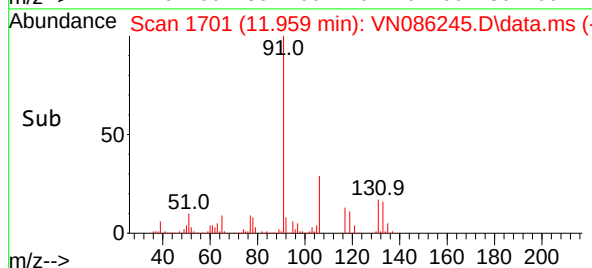
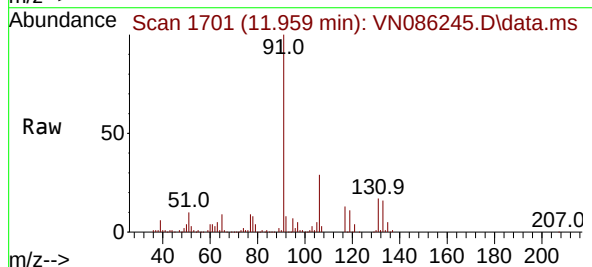
Manual Integrations
APPROVED

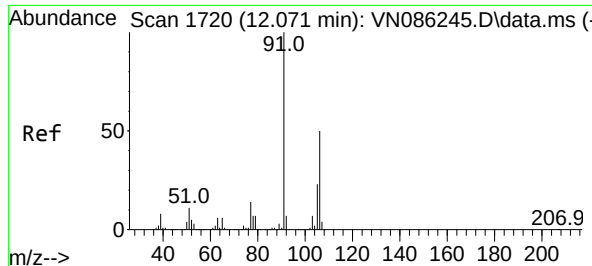
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#66
Ethyl Benzene
Concen: 19.177 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 91 Resp: 233805
Ion Ratio Lower Upper
91 100
106 29.2 23.4 35.0





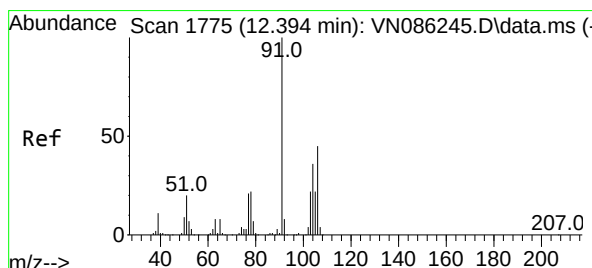
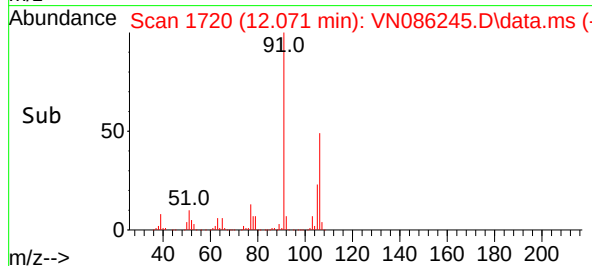
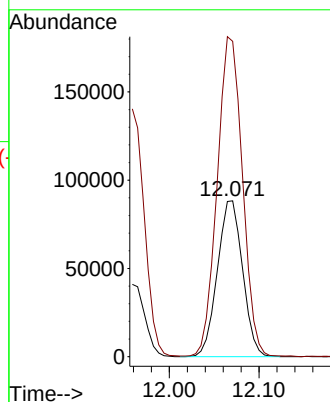
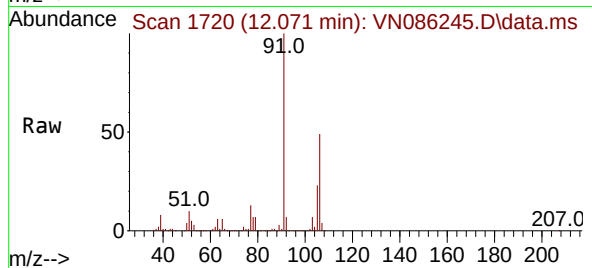
#67
m/p-Xylenes
Concen: 38.024 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:106 Resp: 172384
Ion Ratio Lower Upper
106 100
91 205.6 164.5 246.7

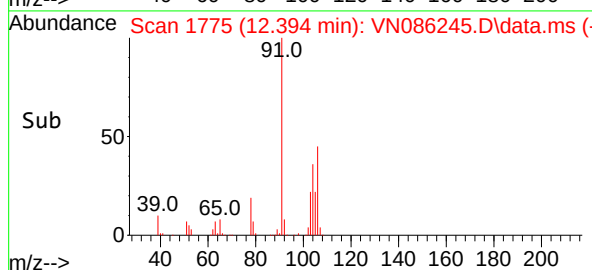
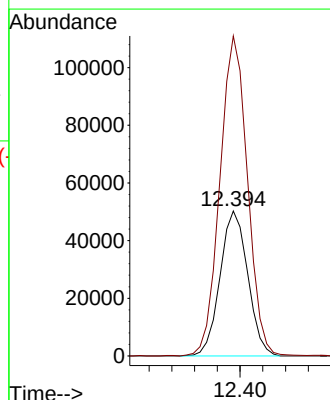
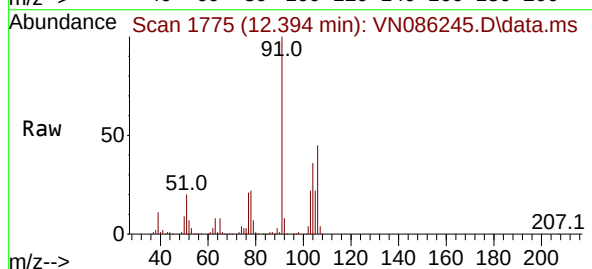
Manual Integrations
APPROVED

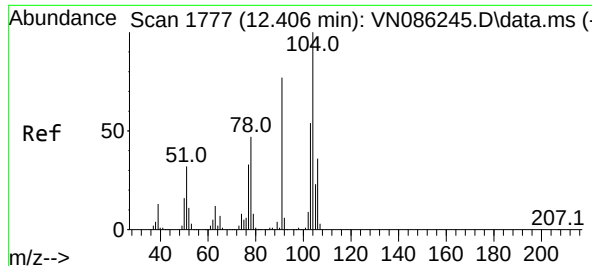
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
o-Xylene
Concen: 19.101 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

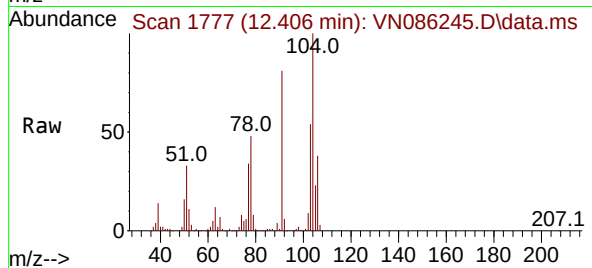
Tgt Ion:106 Resp: 85173
Ion Ratio Lower Upper
106 100
91 219.6 109.8 329.4





#69
Styrene
Concen: 18.793 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

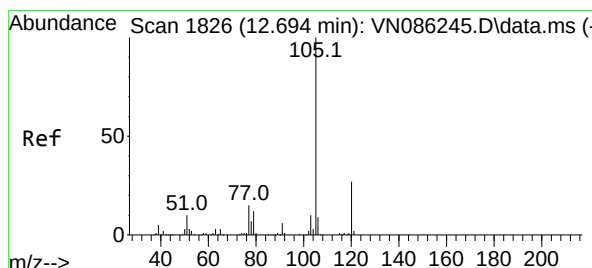
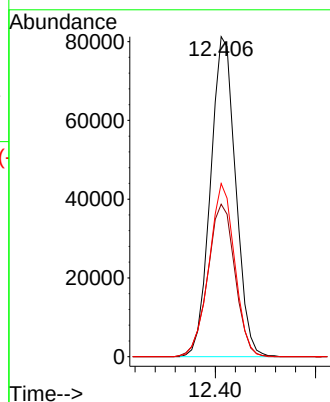
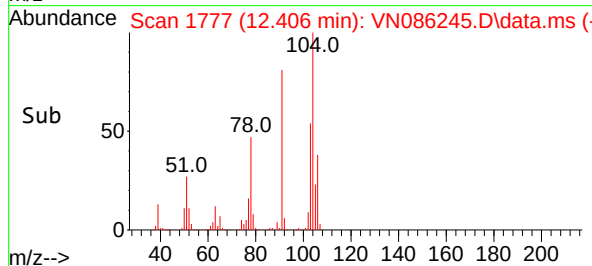
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:104 Resp: 141327
Ion Ratio Lower Upper
104 100
78 51.7 41.4 62.0
103 55.3 44.2 66.4

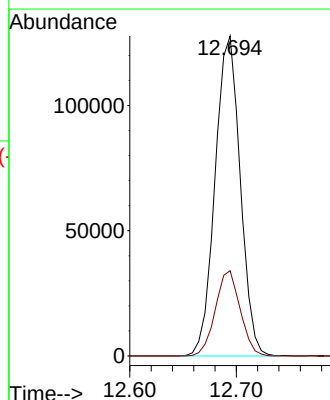
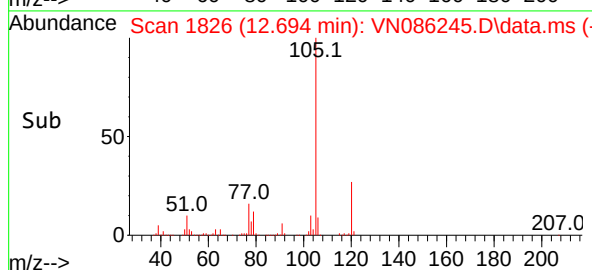
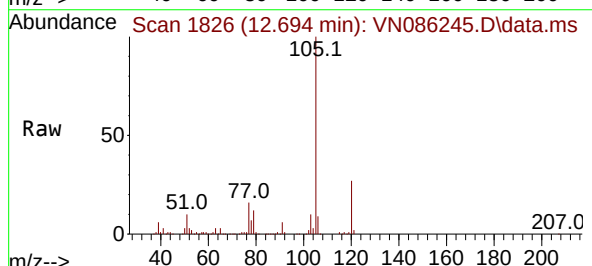
Manual Integrations
APPROVED

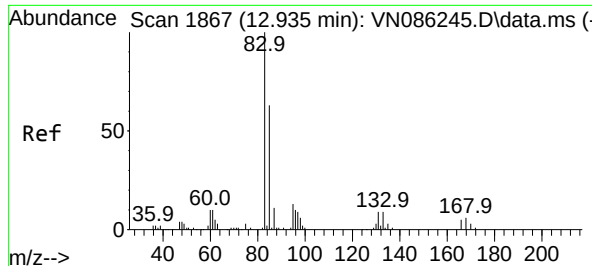
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#70
Isopropylbenzene
Concen: 19.057 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:105 Resp: 209526
Ion Ratio Lower Upper
105 100
120 26.2 18.3 34.1





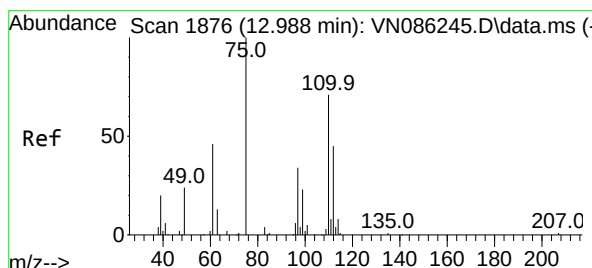
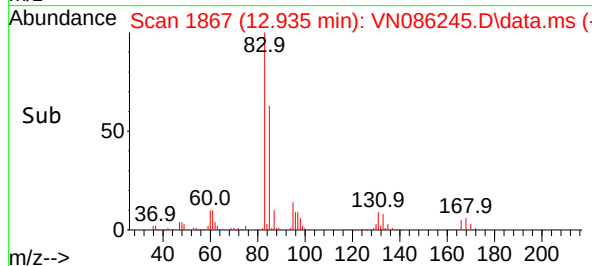
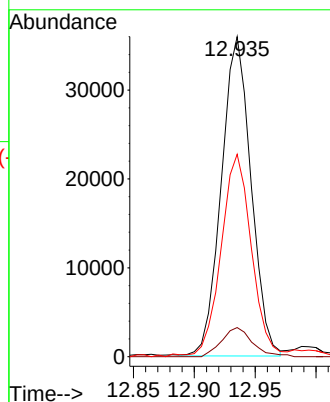
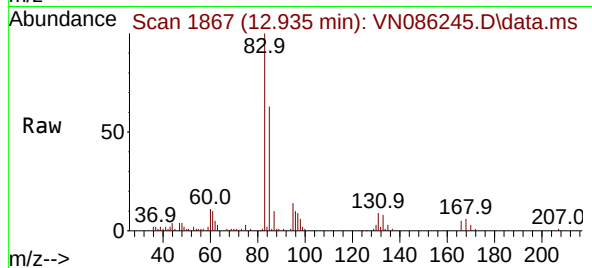
#71
1,1,2,2-Tetrachloroethane
Concen: 19.472 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 83 Resp: 60930
Ion Ratio Lower Upper
83 100
131 9.5 4.8 14.3
85 64.5 32.3 96.8

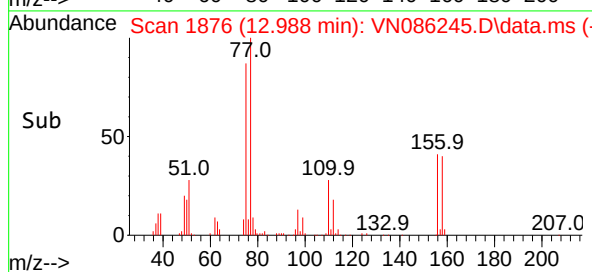
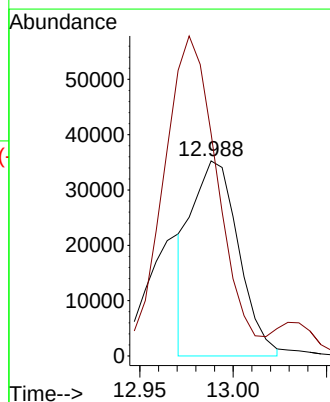
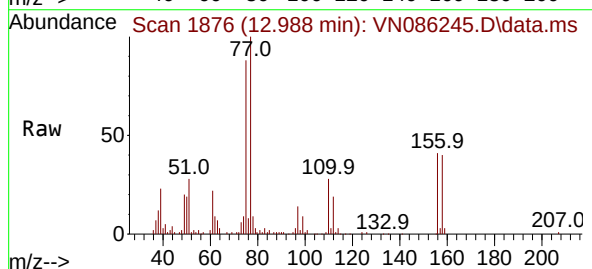
Manual Integrations
APPROVED

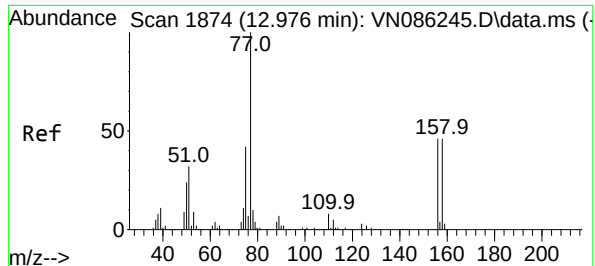
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#72
1,2,3-Trichloropropane
Concen: 13.969 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 75 Resp: 61888
Ion Ratio Lower Upper
75 100
77 190.0 0.0 380.0





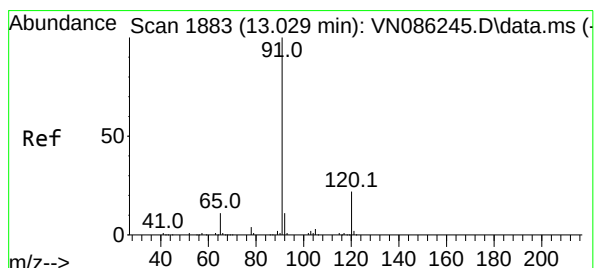
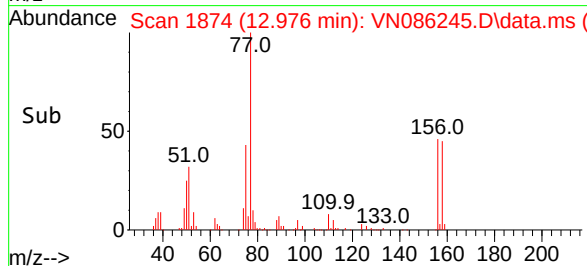
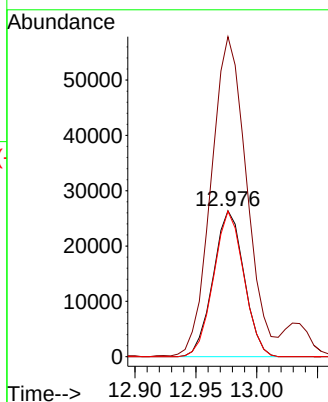
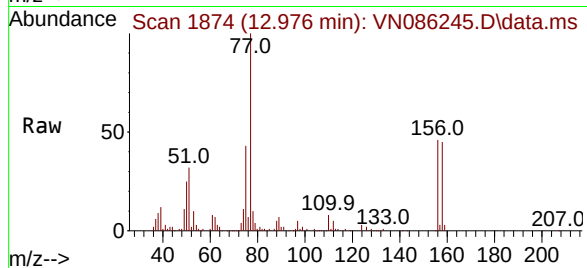
#73
Bromobenzene
Concen: 19.116 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:156 Resp: 4656
Ion Ratio Lower Upper
156 100
77 252.6 0.0 505.2
158 97.5 0.0 195.0

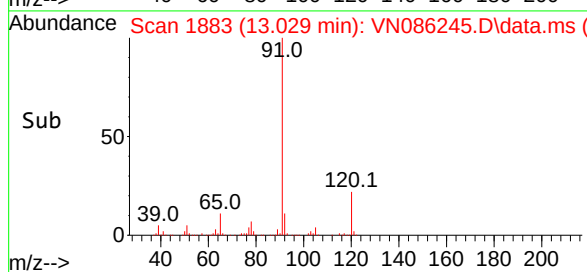
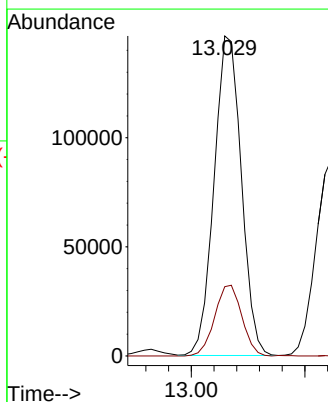
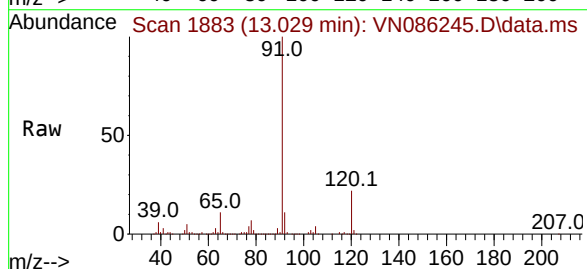
Manual Integrations
APPROVED

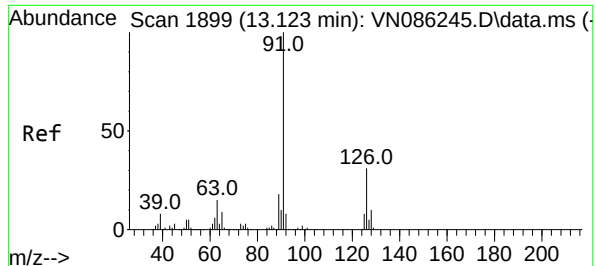
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#74
n-propylbenzene
Concen: 18.707 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion: 91 Resp: 243573
Ion Ratio Lower Upper
91 100
120 22.1 0.0 44.0





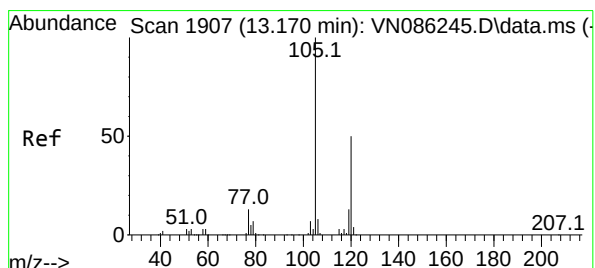
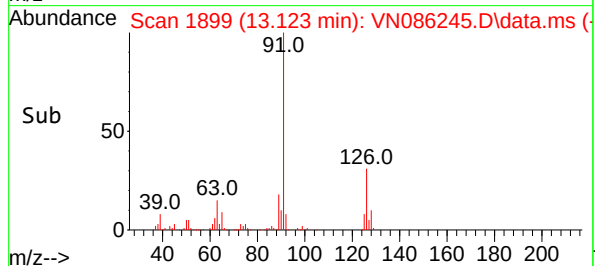
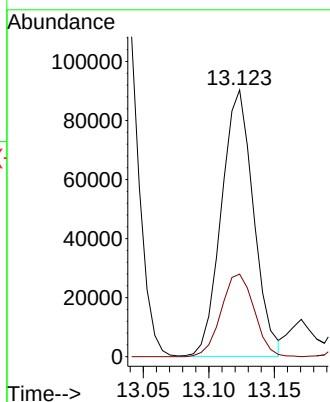
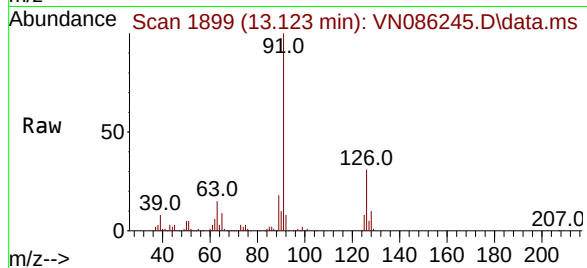
#75
2-Chlorotoluene
Concen: 18.914 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 91 Resp: 15434
Ion Ratio Lower Upper
91 100
126 31.7 0.0 63.4

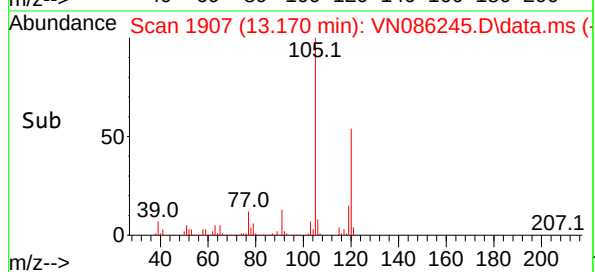
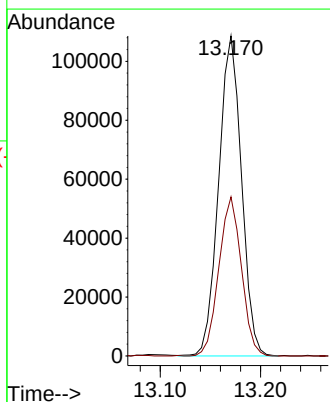
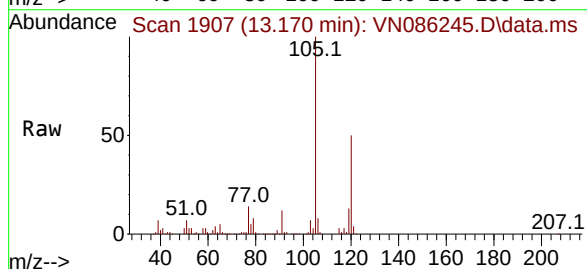
Manual Integrations
APPROVED

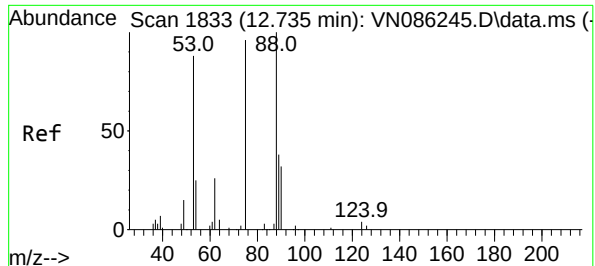
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 19.046 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:105 Resp: 172014
Ion Ratio Lower Upper
105 100
120 49.0 0.0 98.0





#77

t-1,4-Dichloro-2-butene

Concen: 18.993 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

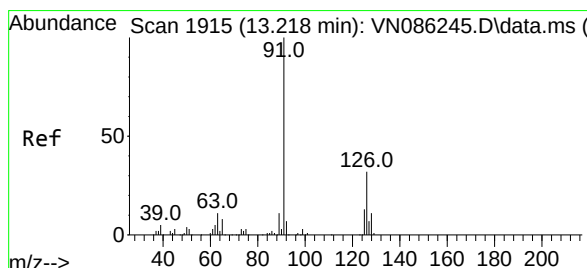
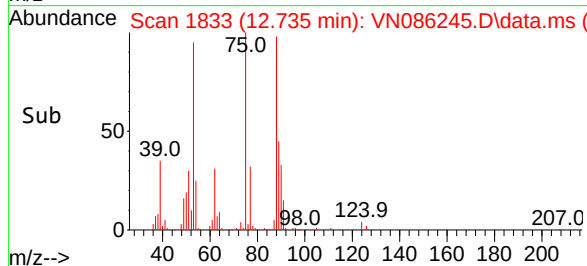
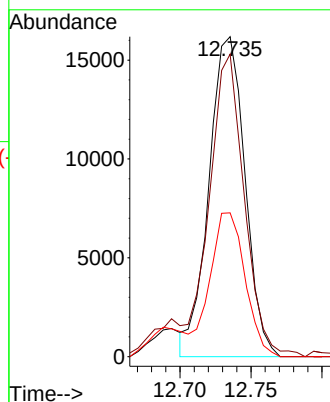
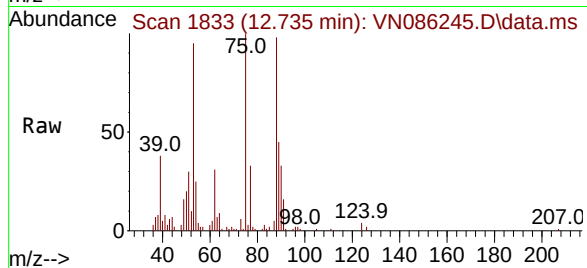
VSTDICCC020

Tgt Ion:	75	Resp:	28529
Ion	Ratio	Lower	Upper
75	100		
53	92.8	46.4	139.2
89	45.0	22.5	67.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#78

4-Chlorotoluene

Concen: 18.539 ug/l

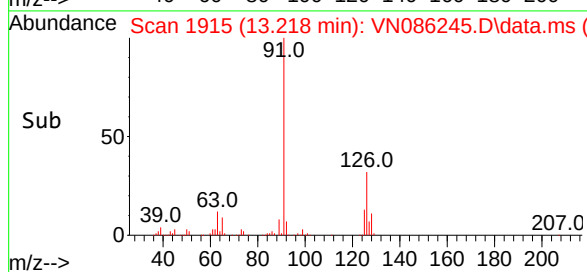
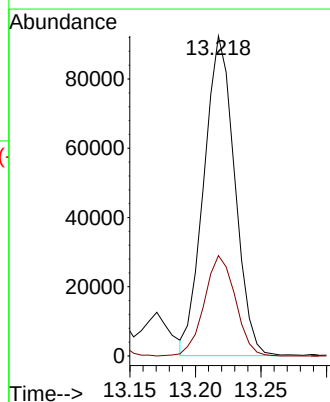
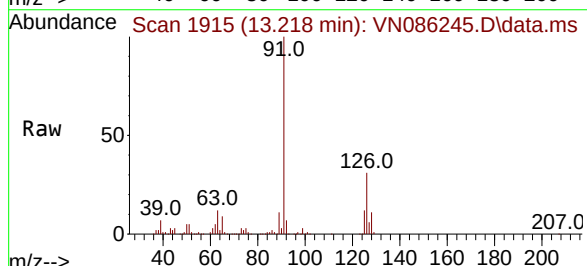
RT: 13.218 min Scan# 1915

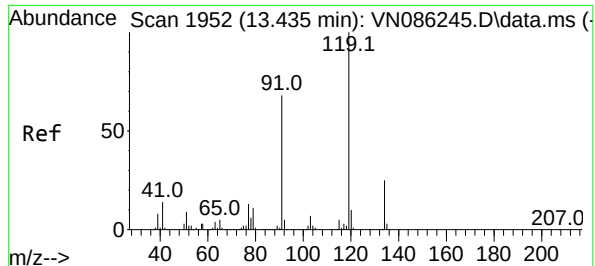
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	91	Resp:	151091
Ion	Ratio	Lower	Upper
91	100		
126	31.6	0.0	63.2





#79

tert-butylbenzene

Concen: 18.865 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:119 Resp: 147428

Ion Ratio Lower Upper

119 100

91 68.3 0.0 136.6

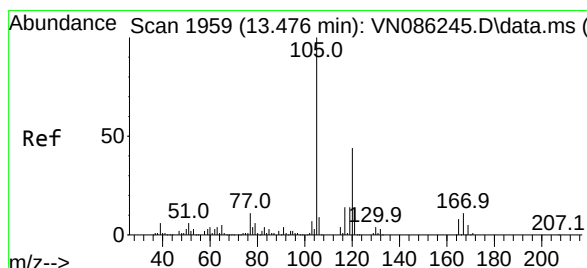
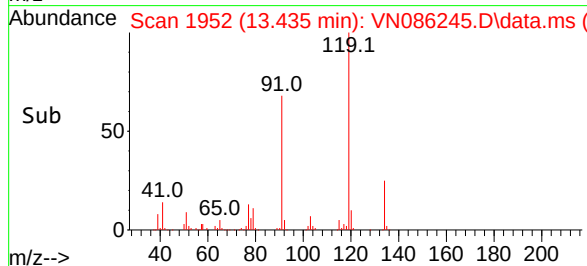
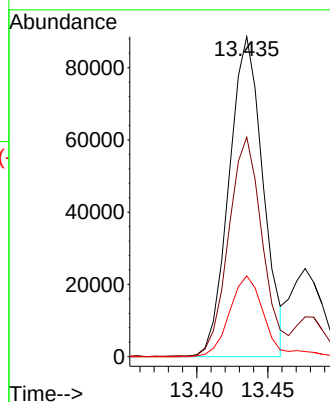
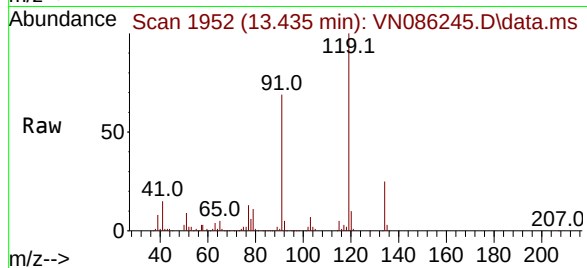
134 24.7 0.0 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#80

1,2,4-Trimethylbenzene

Concen: 19.089 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN086245.D

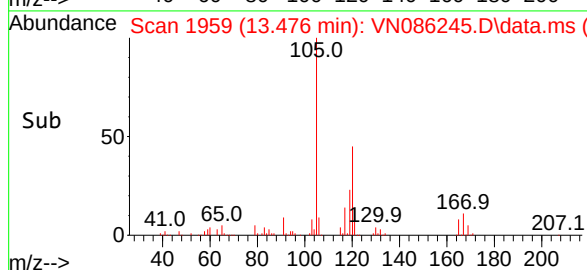
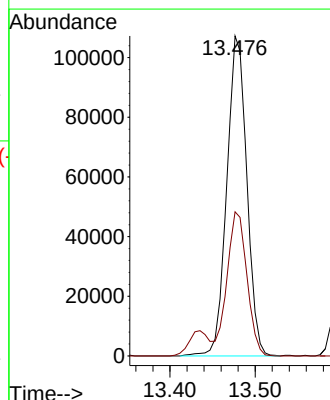
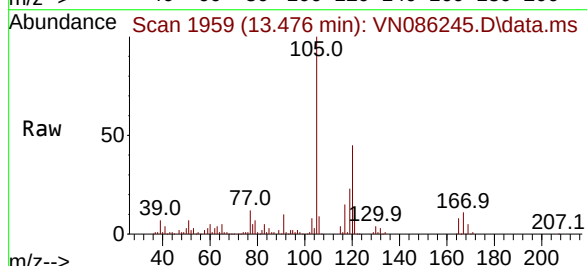
Acq: 11 Apr 2025 12:16

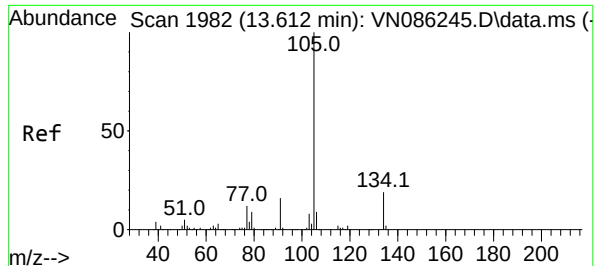
Tgt Ion:105 Resp: 174827

Ion Ratio Lower Upper

105 100

120 45.5 0.0 91.0





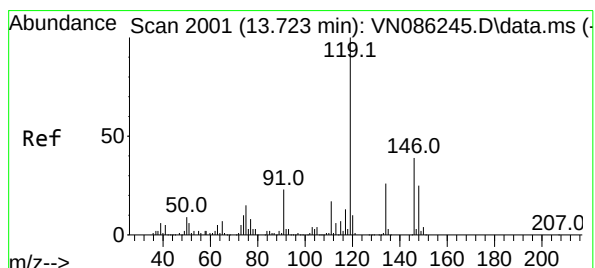
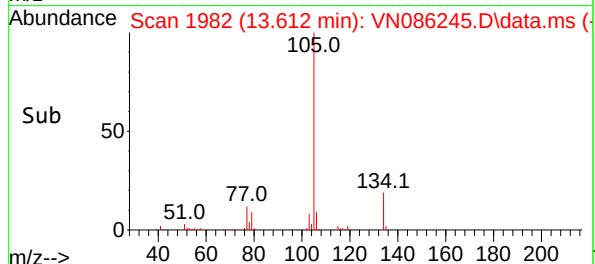
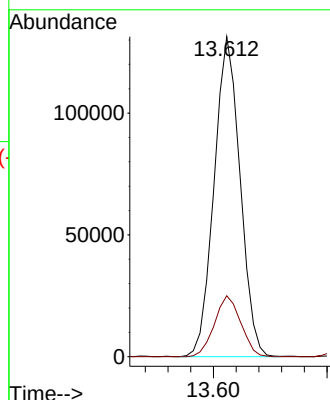
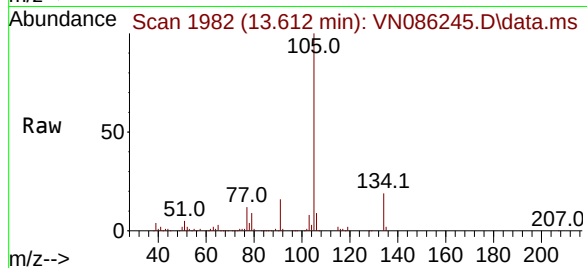
#81
sec-Butylbenzene
Concen: 19.134 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion:105 Resp: 20858
Ion Ratio Lower Upper
105 100
134 19.3 0.0 38.6

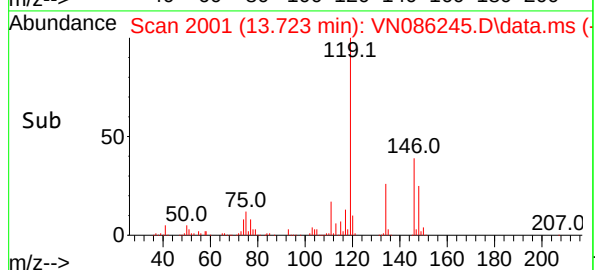
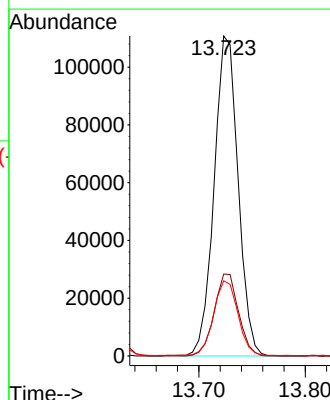
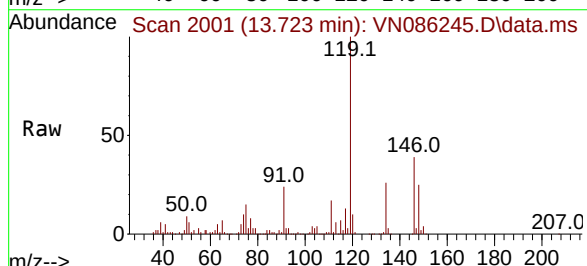
Manual Integrations
APPROVED

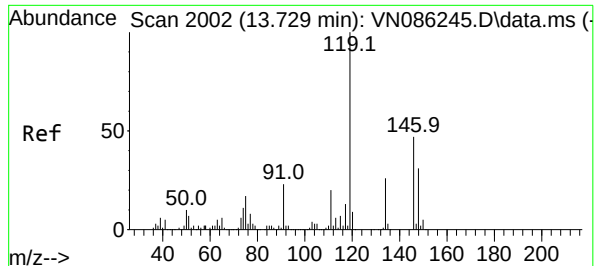
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#82
p-Isopropyltoluene
Concen: 19.037 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:119 Resp: 173120
Ion Ratio Lower Upper
119 100
134 25.8 0.0 51.6
91 24.1 0.0 48.2





#83

1,3-Dichlorobenzene

Concen: 18.662 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

Tgt Ion:146 Resp: 8448

Ion Ratio Lower Upper

146 100

111 43.4 21.7 65.1

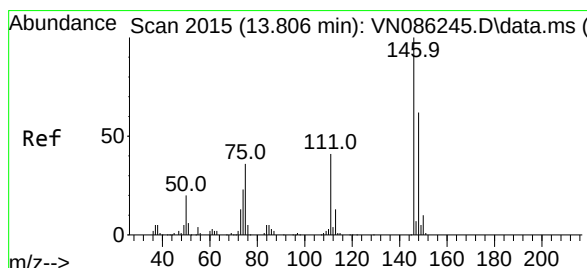
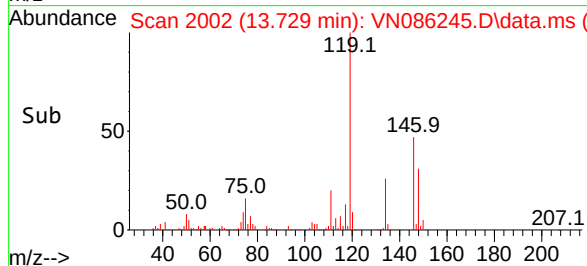
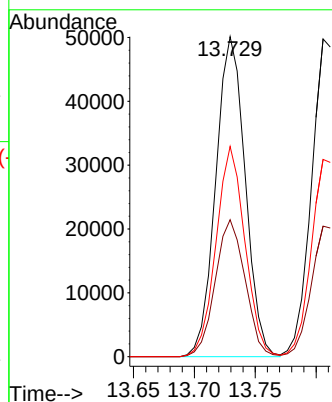
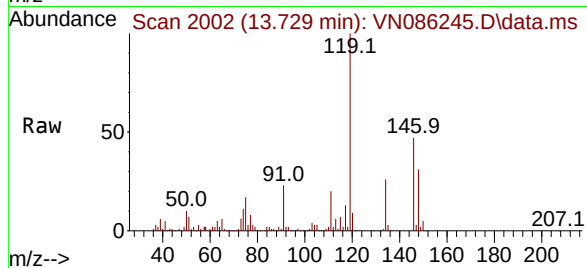
148 64.5 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#84

1,4-Dichlorobenzene

Concen: 18.705 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

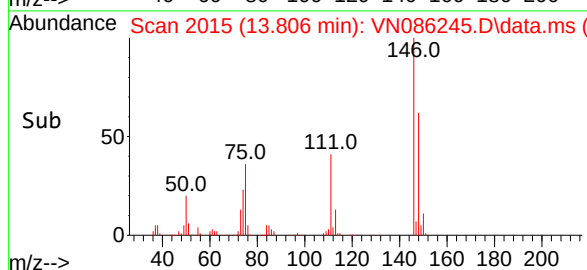
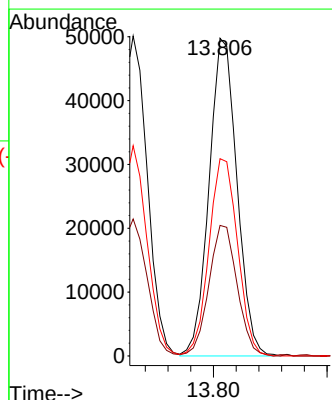
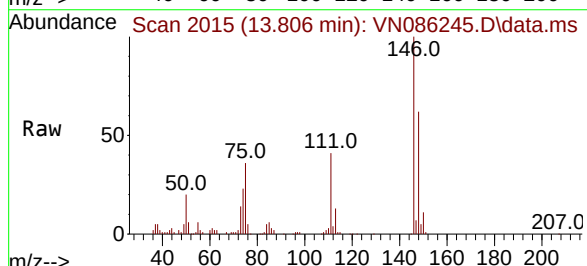
Tgt Ion:146 Resp: 84947

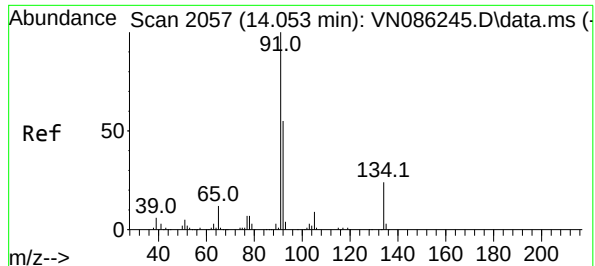
Ion Ratio Lower Upper

146 100

111 41.6 20.8 62.4

148 63.7 31.9 95.5





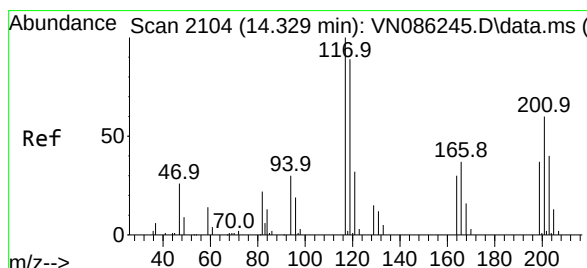
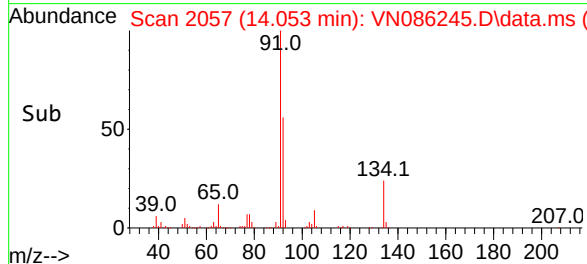
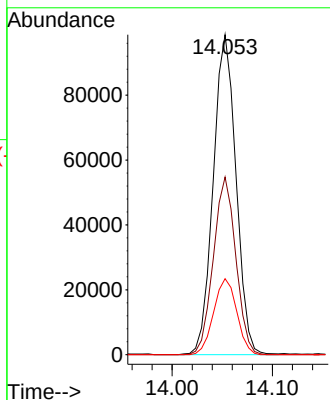
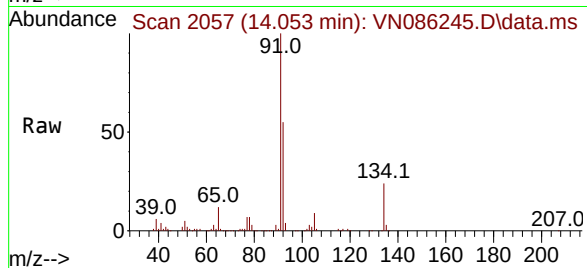
#85
n-Butylbenzene
Concen: 18.919 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020

Tgt Ion: 91 Resp: 155208
Ion Ratio Lower Upper
91 100
92 54.7 0.0 109.4
134 24.1 0.0 48.2

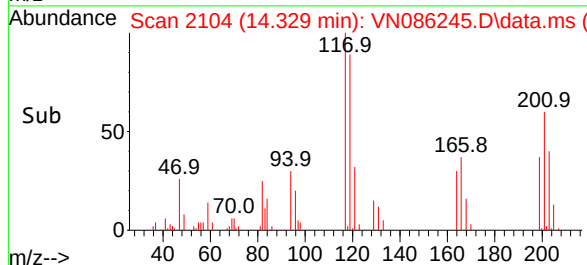
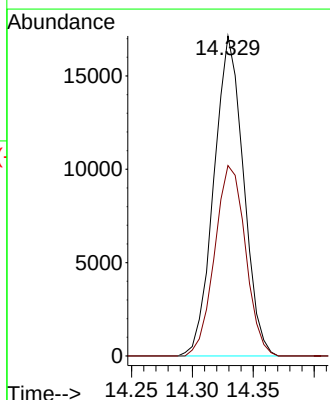
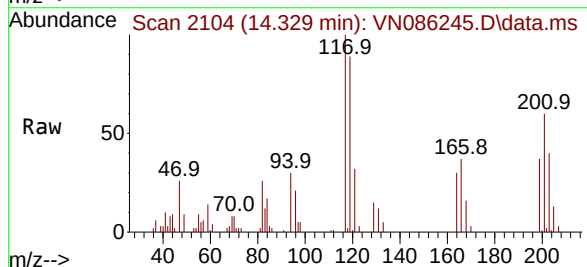
Manual Integrations
APPROVED

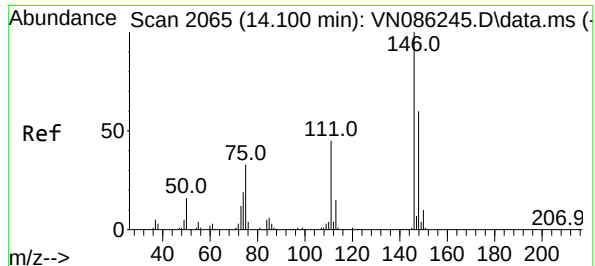
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#86
Hexachloroethane
Concen: 18.910 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:117 Resp: 29008
Ion Ratio Lower Upper
117 100
201 61.9 30.9 92.8





#87

1,2-Dichlorobenzene

Concen: 19.018 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

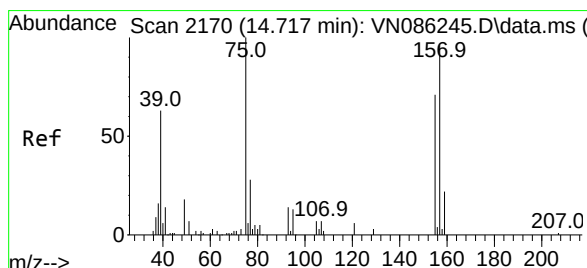
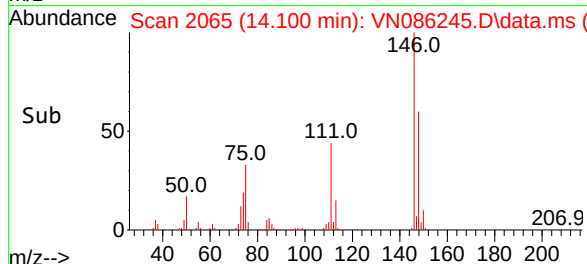
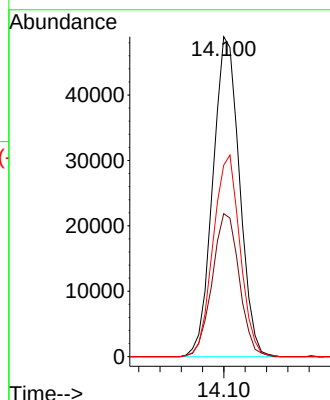
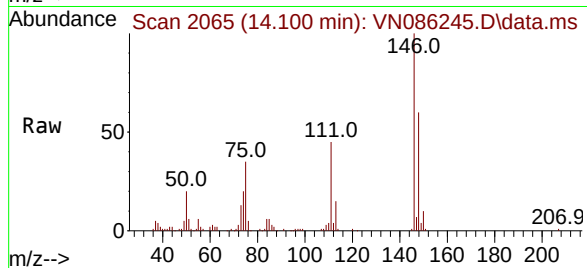
Tgt Ion:	146	Resp:	85009
Ion Ratio	Lower	Upper	
146	100		
111	45.3	22.7	68.0
148	63.5	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.684 ug/l

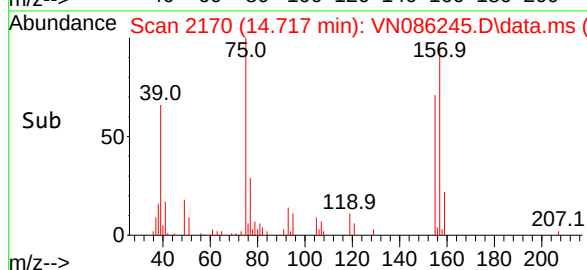
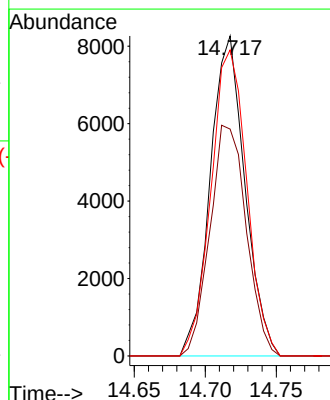
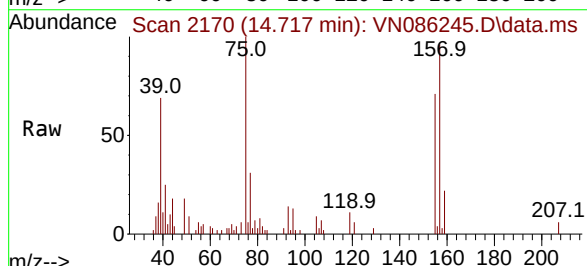
RT: 14.717 min Scan# 2170

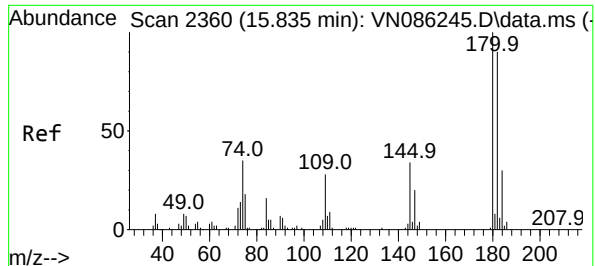
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Tgt Ion:	75	Resp:	14031
Ion Ratio	Lower	Upper	
75	100		
155	75.4	60.3	90.5
157	98.7	79.0	118.4





#89

1,2,4-Trichlorobenzene

Concen: 20.183 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC020

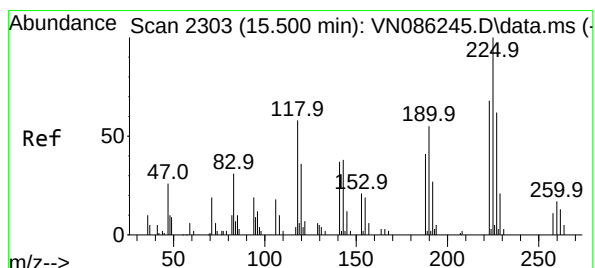
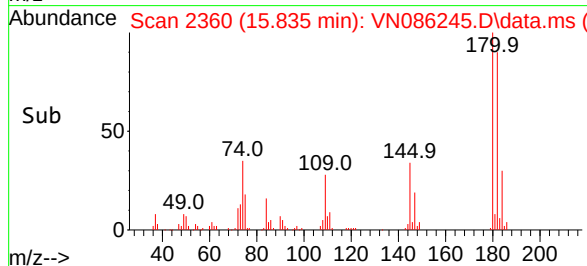
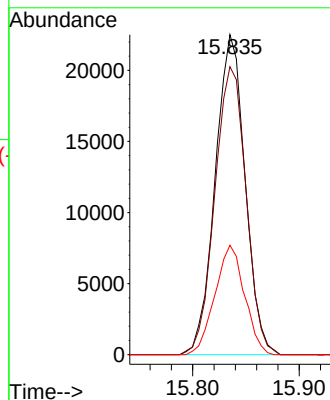
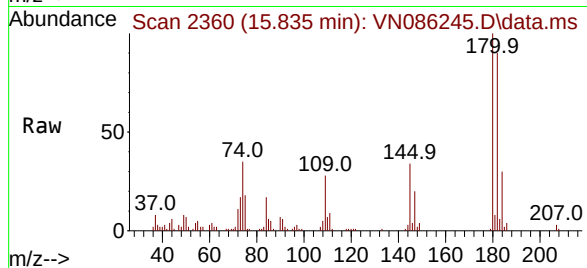
Tgt Ion:	180	Resp:	4389
Ion Ratio	Lower	Upper	
180	100		
182	93.9	75.1	112.7
145	33.9	27.1	40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#90

Hexachlorobutadiene

Concen: 19.398 ug/l

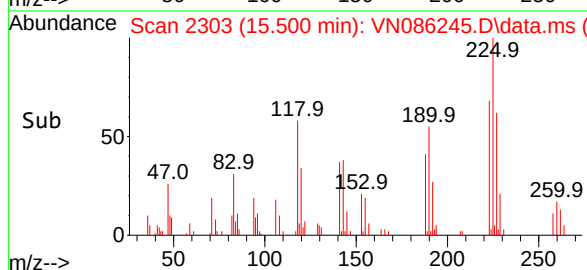
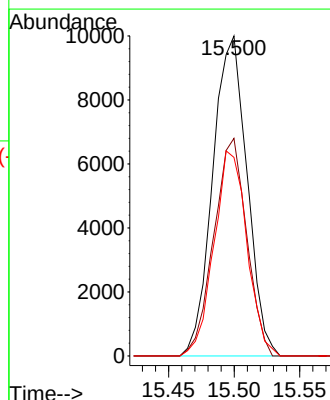
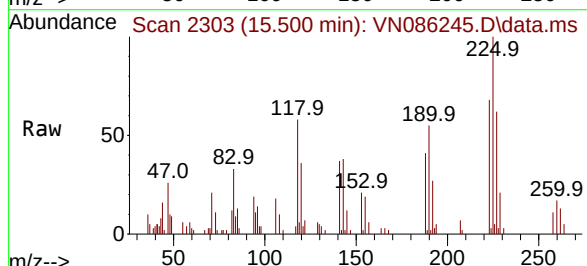
RT: 15.500 min Scan# 2303

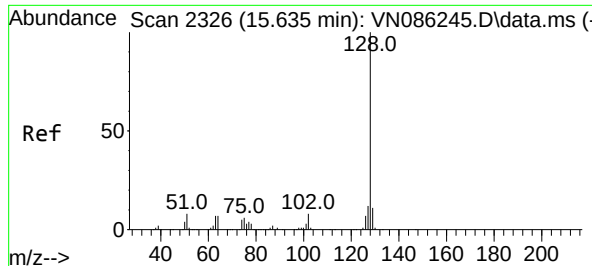
Delta R.T. 0.000 min

Lab File: VN086245.D

Acq: 11 Apr 2025 12:16

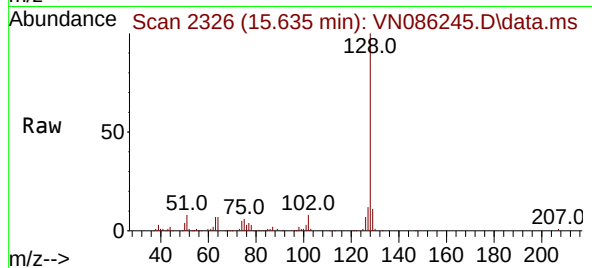
Tgt Ion:	225	Resp:	18215
Ion Ratio	Lower	Upper	
225	100		
223	65.0	0.0	130.0
227	61.6	0.0	123.2





#91
Naphthalene
Concen: 19.722 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

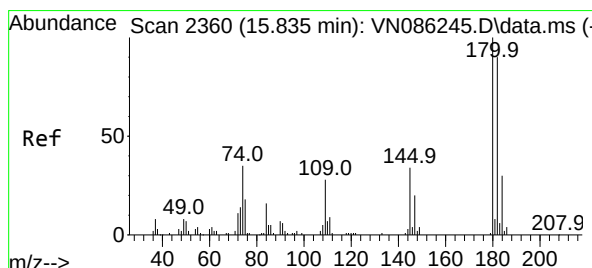
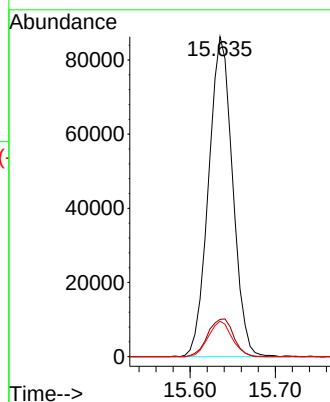
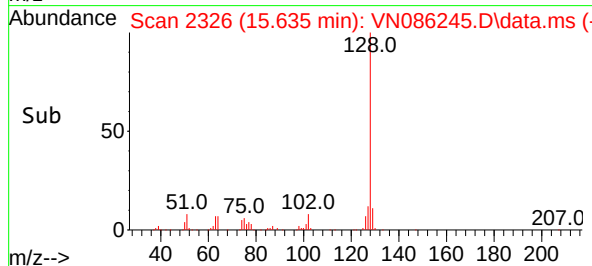
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC020



Tgt Ion:128 Resp: 169118
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 11.0 8.8 13.2

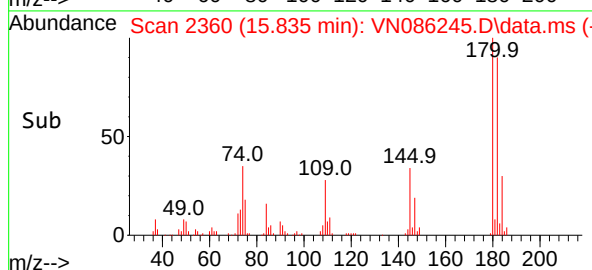
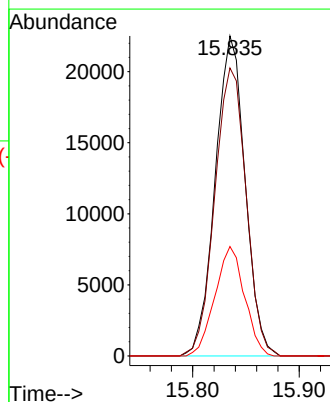
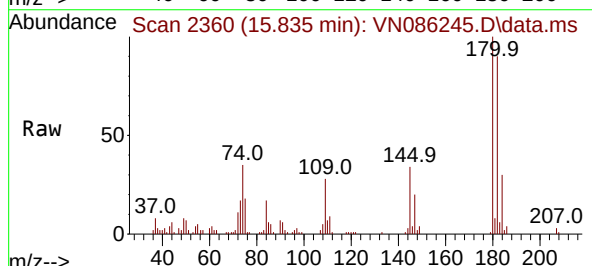
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#92
1,2,3-Trichlorobenzene
Concen: 20.183 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086245.D
Acq: 11 Apr 2025 12:16

Tgt Ion:180 Resp: 43895
Ion Ratio Lower Upper
180 100
182 93.9 0.0 187.8
145 33.9 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086246.D
 Acq On : 11 Apr 2025 12:40
 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 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:25:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	26939	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	166827	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	146541	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	80888	30.785	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.600%			
60) 4-Bromofluorobenzene	12.847	95	86291	29.576	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.600%			
63) Toluene-d8	10.565	98	250531	30.283	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.933%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	9304	4.311	ug/l	99
3) Chloromethane	2.359	50	15004	5.030	ug/l	94
4) Vinyl Chloride	2.512	62	13469	4.740	ug/l	100
5) Bromomethane	2.965	94	8169	5.763	ug/l	98
6) Chloroethane	3.118	64	9245	5.152	ug/l	97
7) Trichlorofluoromethane	3.501	101	14867	4.823	ug/l	99
8) Diethyl Ether	3.959	74	7307	5.140	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	9194	4.837	ug/l	92
10) 1,1-Dichloroethene	4.336	96	10856	5.292	ug/l	98
11) Methyl Iodide	4.583	142	11623m	4.930	ug/l	
12) Methyl Acetate	5.024	43	14618	5.046	ug/l	97
13) Acrolein	4.177	56	10809	32.827	ug/l	99
14) Acrylonitrile	5.718	53	31353	25.638	ug/l	98
15) Acetone	4.436	58	8149	26.259	ug/l	77
16) Carbon Disulfide	4.712	76	32171	5.469	ug/l	100
17) Allyl chloride	5.024	41	18652	5.217	ug/l	96
18) Methylene Chloride	5.283	84	12832	5.487	ug/l	85
19) trans-1,2-Dichloroethene	5.777	96	11746m	6.348	ug/l	
20) Diisopropyl ether	6.671	45	37420	4.868	ug/l	96
21) 1,1-Dichloroethane	6.571	63	20024	4.883	ug/l	98
22) cis-1,2-Dichloroethene	7.488	96	13471	5.234	ug/l	95
23) tert-Butyl Alcohol	5.518	59	12793	25.247	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	38035m	5.147	ug/l	
25) Chloroform	7.959	83	19640	5.022	ug/l	93
26) Cyclohexane	8.253	56	19181	4.999	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	14353	4.803	ug/l	97
30) 2-Butanone	7.483	43	39891	24.089	ug/l	99
31) 2,2-Dichloropropane	7.483	77	17332	4.711	ug/l #	84
32) 1,1,1-Trichloroethane	8.165	97	17271	5.024	ug/l	98
33) Carbon Tetrachloride	8.365	117	12727	4.633	ug/l	95
34) Benzene	8.606	78	46065	4.845	ug/l #	88
35) Methacrylonitrile	7.777	41	9403	5.037	ug/l	96
36) 1,2-Dichloroethane	8.671	62	14350	4.823	ug/l #	87
37) Trichloroethene	9.353	130	10774	4.697	ug/l	97
38) Methylcyclohexane	9.600	83	18064	4.929	ug/l	97
39) 1,2-Dichloropropane	9.618	63	11201	4.735	ug/l	94
40) Dibromomethane	9.706	93	7704	5.042	ug/l	95
41) Bromodichloromethane	9.882	83	16772	5.109	ug/l	100
42) Vinyl Acetate	6.600	43	138739	24.613	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086246.D
 Acq On : 11 Apr 2025 12:40
 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 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:25:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	16850	5.045	ug/l #	79
44) Isopropyl Acetate	8.683	43	33849	5.463	ug/l	95
45) 1,4-Dioxane	9.688	88	4828	97.983	ug/l #	86
46) Methyl methacrylate	9.677	41	12994	4.759	ug/l	95
47) n-amyl Acetate	12.488	43	24334	4.860	ug/l	98
48) t-1,3-Dichloropropene	10.835	75	17815	4.801	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	18616	4.740	ug/l	96
50) 1,1,2-Trichloroethane	11.012	97	10709	4.997	ug/l	96
51) Ethyl methacrylate	10.871	69	19475	4.890	ug/l	91
52) 1,3-Dichloropropane	11.159	76	18666	4.887	ug/l	95
53) Dibromochloromethane	11.359	129	11282	4.813	ug/l	100
54) 1,2-Dibromoethane	11.465	107	10742	4.965	ug/l	95
55) 2-Chloroethyl vinyl ether	10.159	63	44228	29.389	ug/l	99
56) Bromoform	12.576	173	7367	4.804	ug/l #	98
58) 4-Methyl-2-Pentanone	10.441	43	81510	24.511	ug/l	99
59) 2-Hexanone	11.194	43	60580	24.465	ug/l	99
61) Tetrachloroethene	11.100	164	10135	4.683	ug/l	96
62) Toluene	10.624	91	48384	4.923	ug/l	99
64) Chlorobenzene	11.888	112	29905	4.980	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.959	131	9602	4.845	ug/l	96
66) Ethyl Benzene	11.965	91	53539	4.912	ug/l	98
67) m/p-Xylenes	12.071	106	38897	9.597	ug/l	97
68) o-Xylene	12.394	106	19223	4.822	ug/l	98
69) Styrene	12.406	104	32582	4.846	ug/l	100
70) Isopropylbenzene	12.694	105	47563	4.839	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.935	83	15293	5.466	ug/l	93
72) 1,2,3-Trichloropropane	12.988	75	14811m	3.739	ug/l	
73) Bromobenzene	12.976	156	10521	4.831	ug/l	96
74) n-propylbenzene	13.035	91	55104	4.734	ug/l	100
75) 2-Chlorotoluene	13.123	91	35960	4.929	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	38762	4.800	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	6507	4.845	ug/l	94
78) 4-Chlorotoluene	13.218	91	35898	4.927	ug/l	98
79) tert-butylbenzene	13.435	119	35578	5.092	ug/l	97
80) 1,2,4-Trimethylbenzene	13.482	105	38730	4.730	ug/l	99
81) sec-Butylbenzene	13.612	105	46761	4.798	ug/l	100
82) p-Isopropyltoluene	13.729	119	38146	4.692	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	19501	4.818	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	19847	4.888	ug/l	99
85) n-Butylbenzene	14.053	91	34592	4.716	ug/l	99
86) Hexachloroethane	14.329	117	6465	4.714	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	19316	4.834	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	3152	4.946	ug/l	94
89) 1,2,4-Trichlorobenzene	15.835	180	9291	4.778	ug/l	95
90) Hexachlorobutadiene	15.500	225	4734	5.639	ug/l	96
91) Naphthalene	15.635	128	38531	5.026	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	9291	4.778	ug/l	95

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

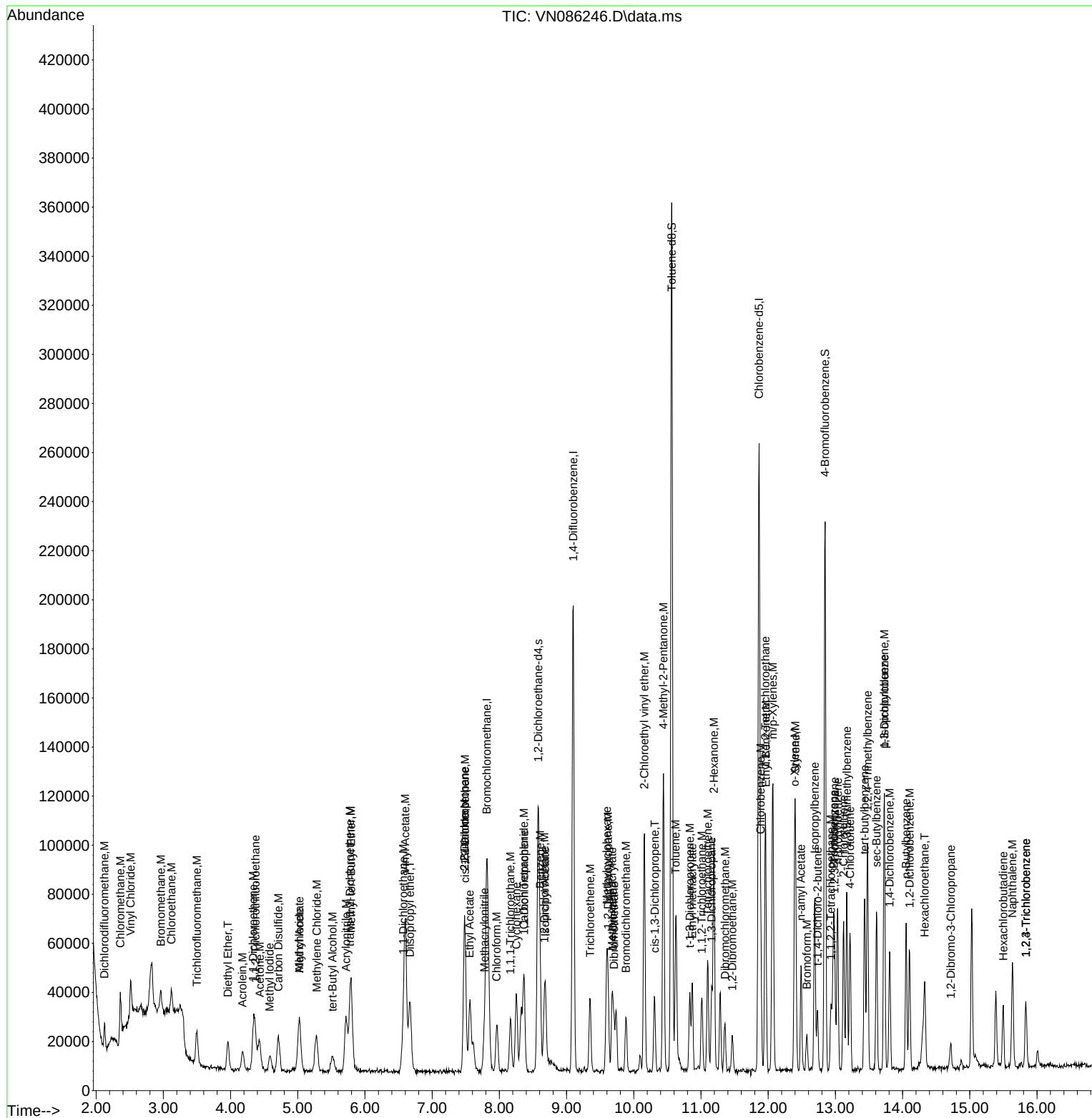
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
Data File : VN086246.D
Acq On : 11 Apr 2025 12:40
Operator : JC\MD
Sample : VSTDIC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

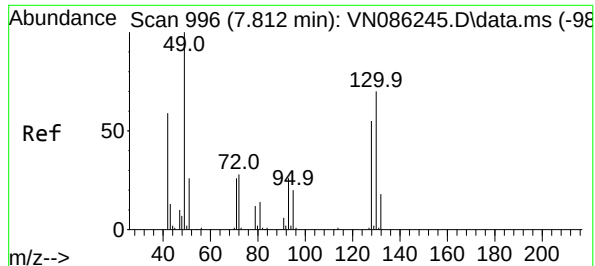
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:25:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 00:09:06 2025
Response via : Initial Calibration





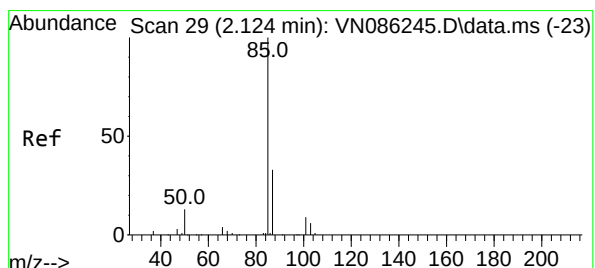
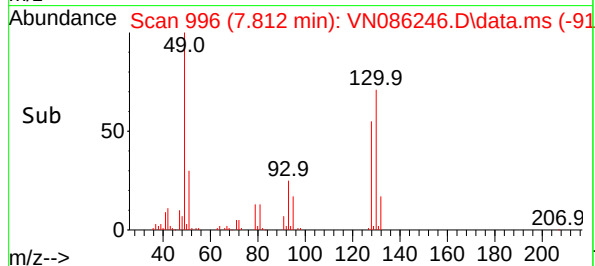
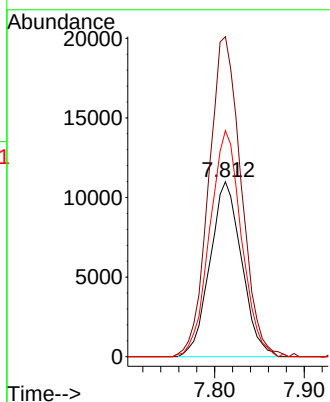
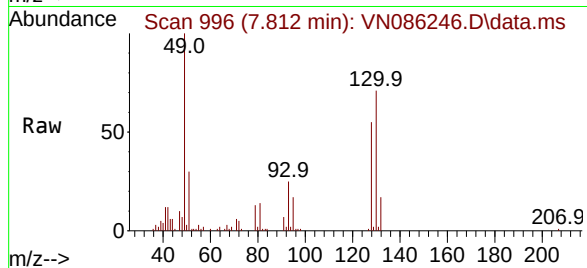
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 26939
Ion Ratio Lower Upper
128 100
49 187.2 0.0 452.5
130 129.7 0.0 315.0

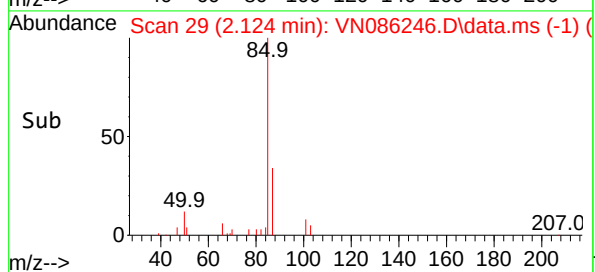
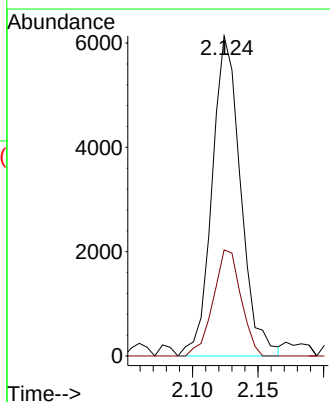
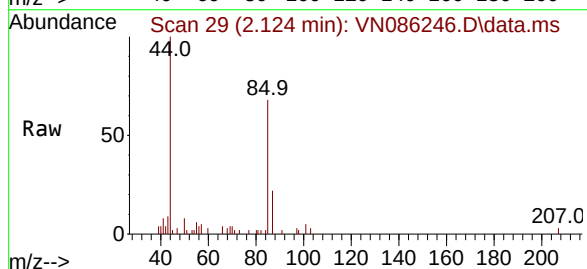
Manual Integrations
APPROVED

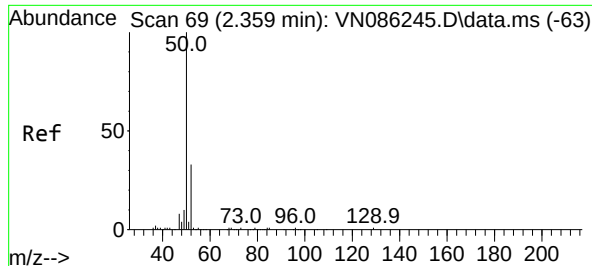
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#2
Dichlorodifluoromethane
Concen: 4.311 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 85 Resp: 9304
Ion Ratio Lower Upper
85 100
87 33.1 16.3 48.9





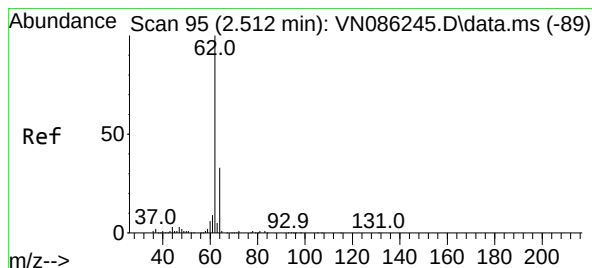
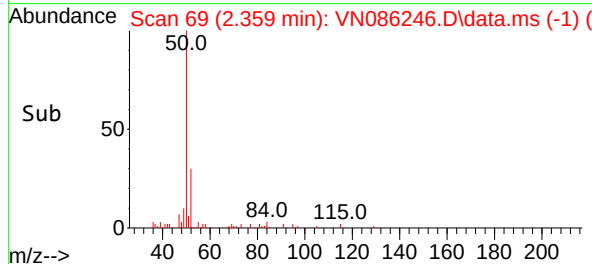
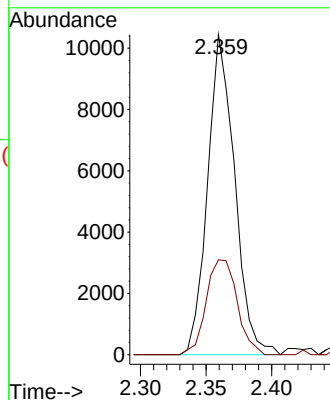
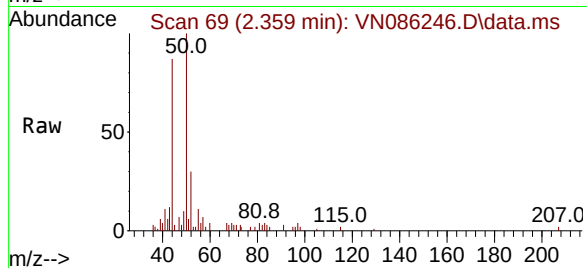
#3
Chloromethane
Concen: 5.030 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 15004
Ion Ratio Lower Upper
50 100
52 29.7 26.4 39.6

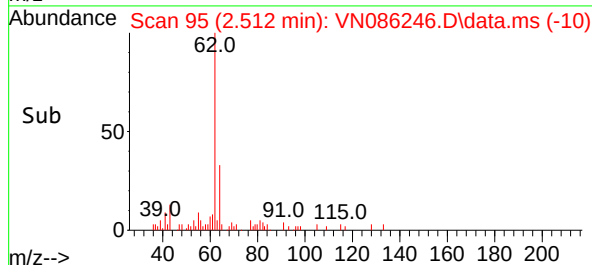
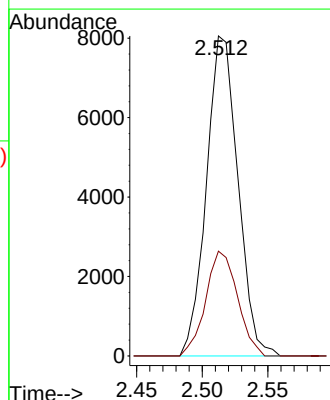
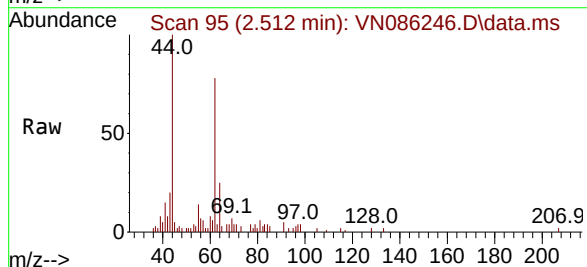
Manual Integrations
APPROVED

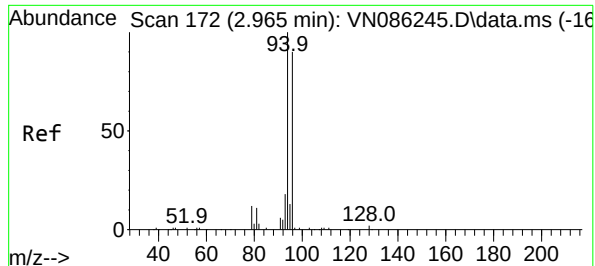
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 4.740 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 62 Resp: 13469
Ion Ratio Lower Upper
62 100
64 32.8 26.3 39.5





#5

Bromomethane

Concen: 5.763 ug/l

RT: 2.965 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 94 Resp: 816

Ion Ratio Lower Upper

94 100

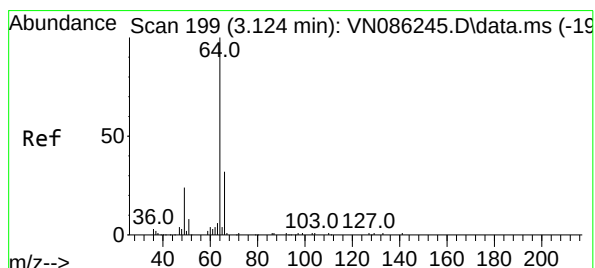
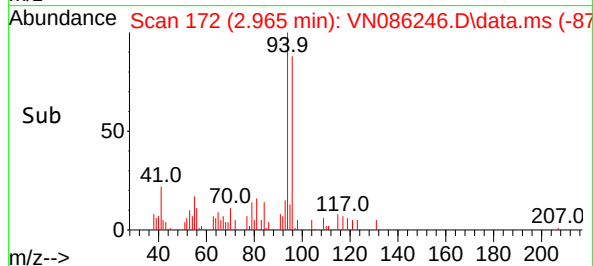
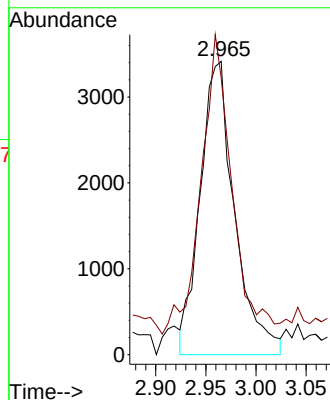
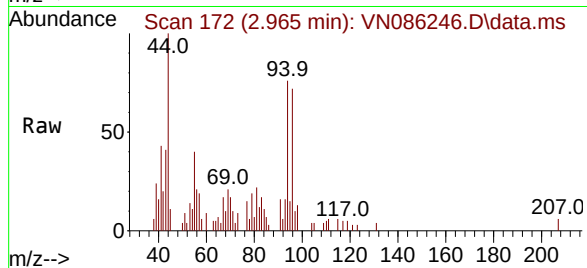
96 88.5 72.2 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#6

Chloroethane

Concen: 5.152 ug/l

RT: 3.118 min Scan# 198

Delta R.T. -0.006 min

Lab File: VN086246.D

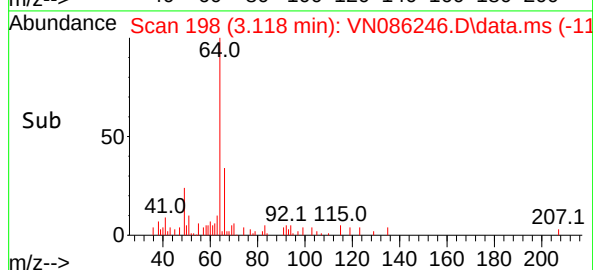
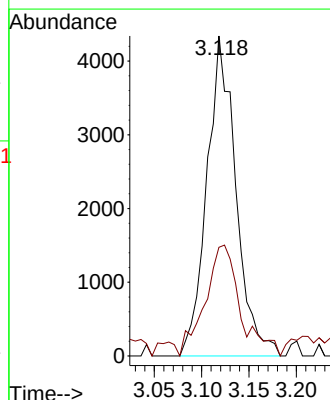
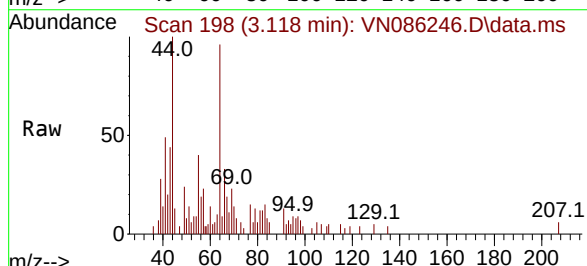
Acq: 11 Apr 2025 12:40

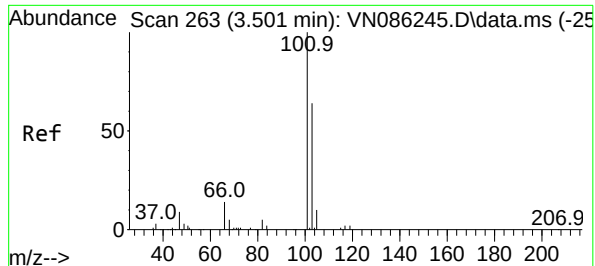
Tgt Ion: 64 Resp: 9245

Ion Ratio Lower Upper

64 100

66 34.0 25.7 38.5





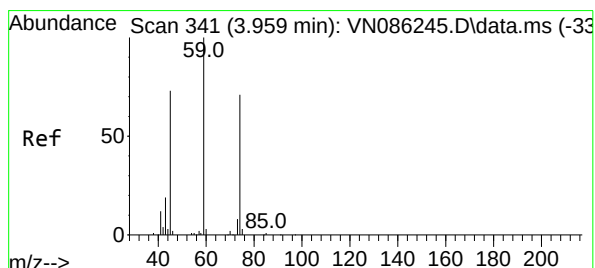
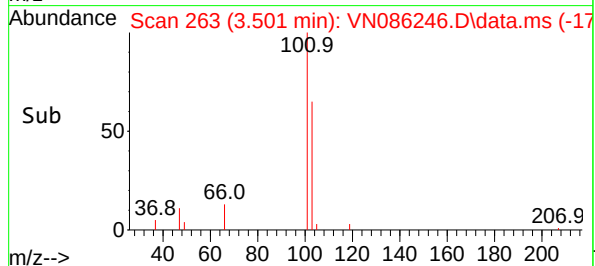
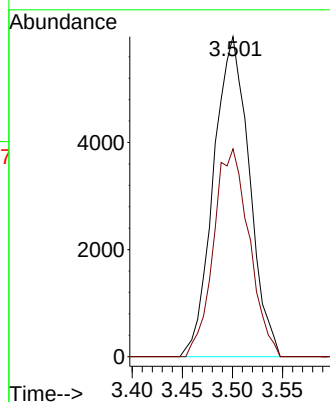
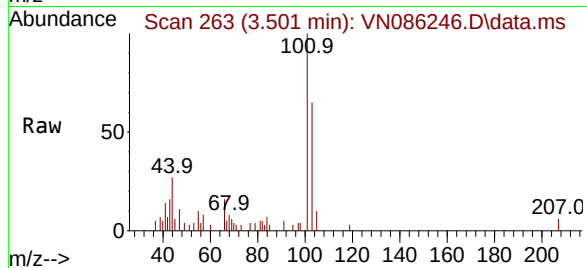
#7
Trichlorofluoromethane
Concen: 4.823 ug/l
RT: 3.501 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 1486
Ion Ratio Lower Upper
101 100
103 65.0 51.2 76.8

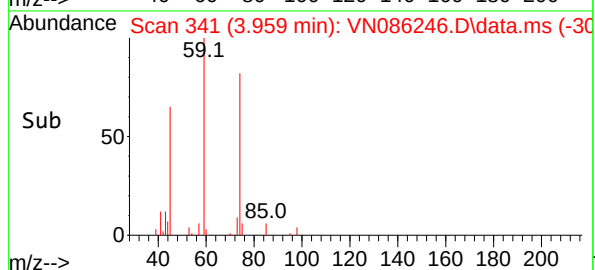
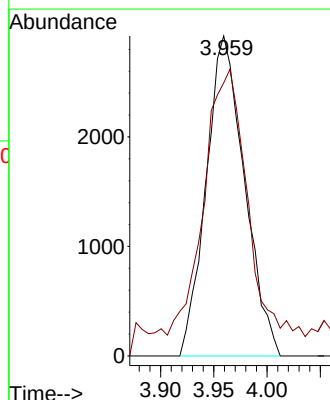
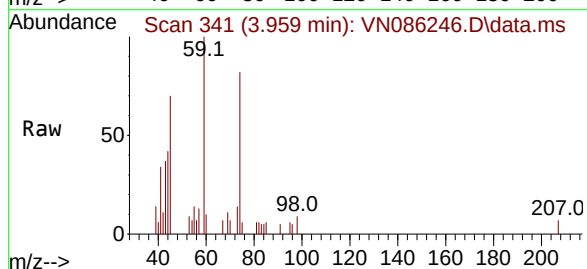
Manual Integrations
APPROVED

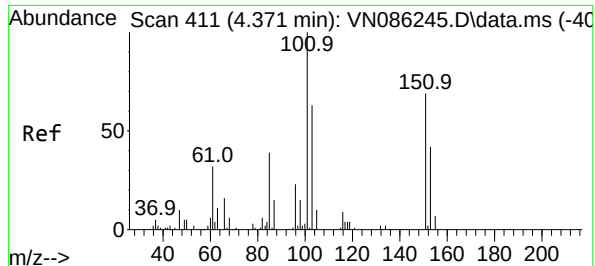
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#8
Diethyl Ether
Concen: 5.140 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 74 Resp: 7307
Ion Ratio Lower Upper
74 100
45 92.1 19.2 173.2





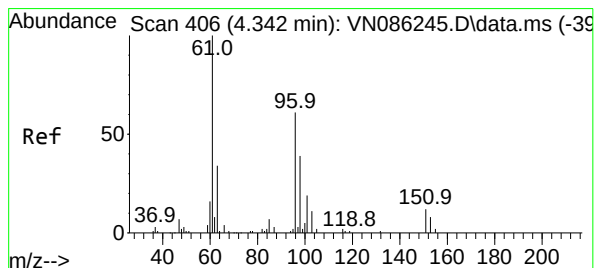
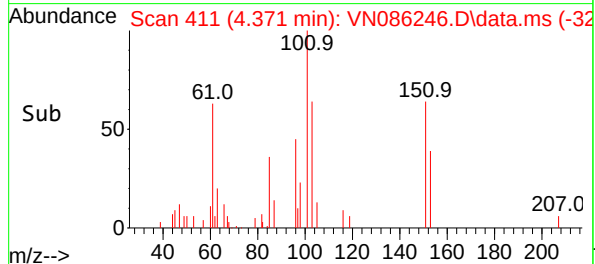
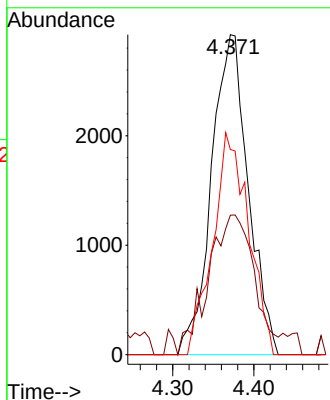
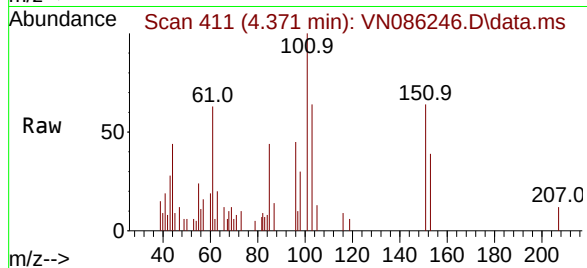
#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.837 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 9194
Ion Ratio Lower Upper
101 100
85 35.1 0.0 93.0
151 67.5 0.0 138.6

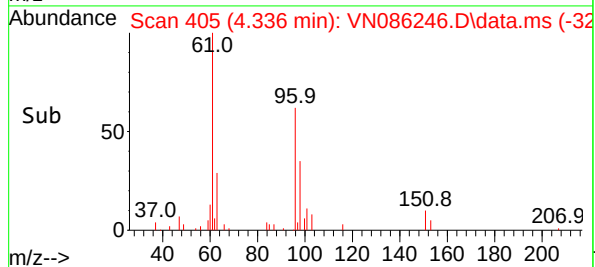
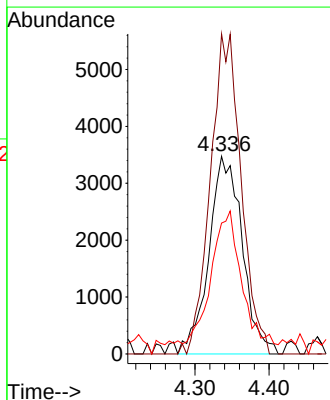
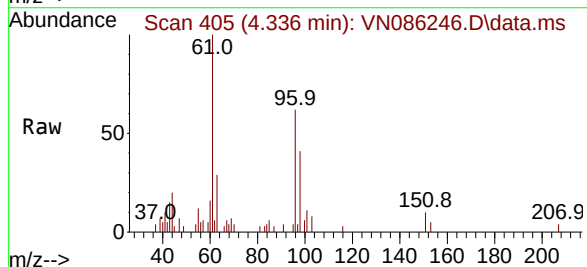
Manual Integrations
APPROVED

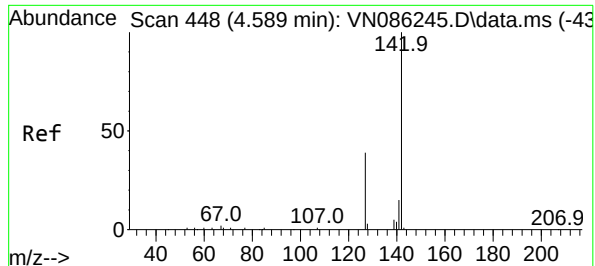
Reviewed By :John Carbone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#10
1,1-Dichloroethene
Concen: 5.292 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 96 Resp: 10856
Ion Ratio Lower Upper
96 100
61 161.9 131.1 196.7
98 61.6 51.6 77.4





#11

Methyl Iodide

Concen: 4.930 ug/l m

RT: 4.583 min Scan# 448

Delta R.T. -0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

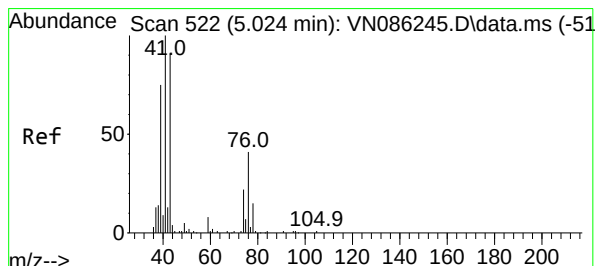
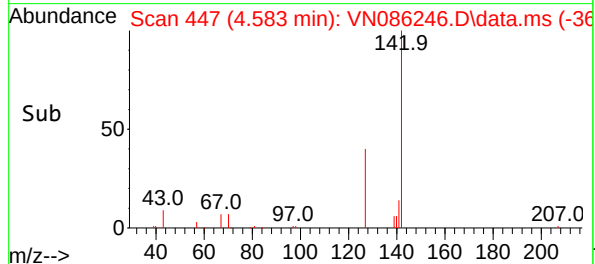
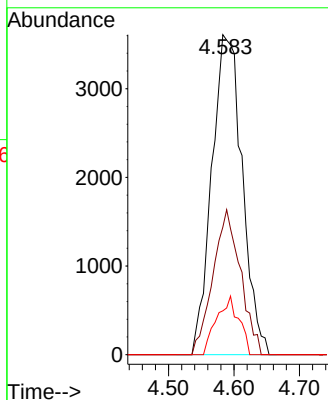
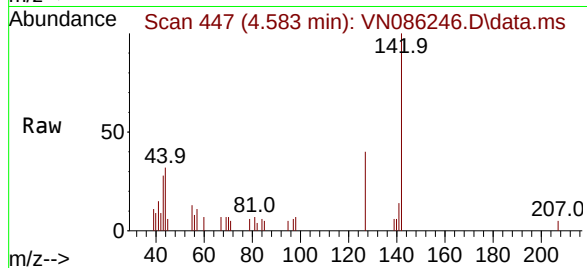
VSTDIC005

Tgt Ion:	142	Resp:	1162
Ion	Ratio	Lower	Upper
142	100		
127	39.8	19.6	58.8
141	13.7	7.3	21.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#12

Methyl Acetate

Concen: 5.046 ug/l

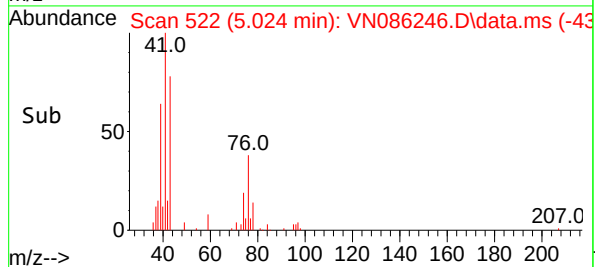
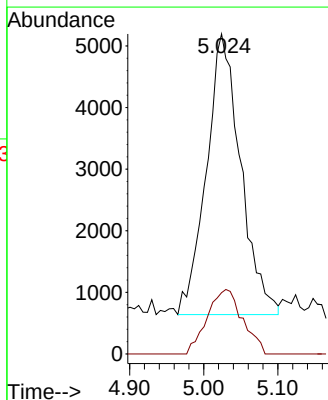
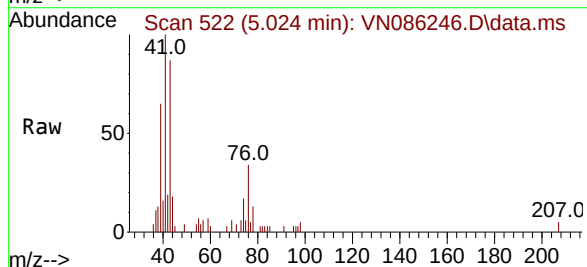
RT: 5.024 min Scan# 522

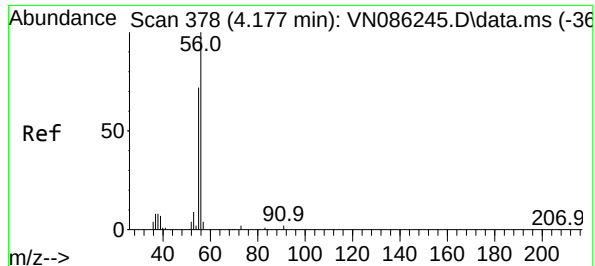
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	43	Resp:	14618
Ion	Ratio	Lower	Upper
43	100		
74	22.2	19.1	28.7





#13

Acrolein

Concen: 32.827 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 10809

Ion Ratio Lower Upper

56 100

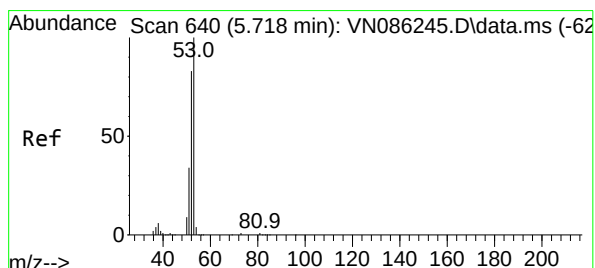
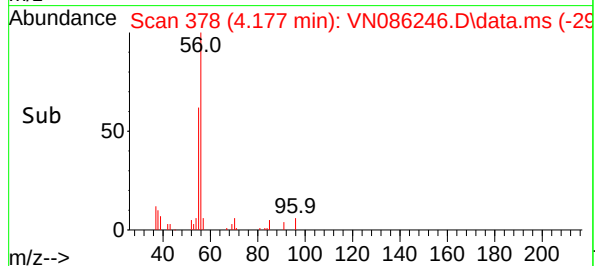
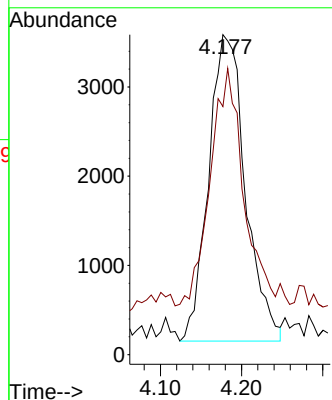
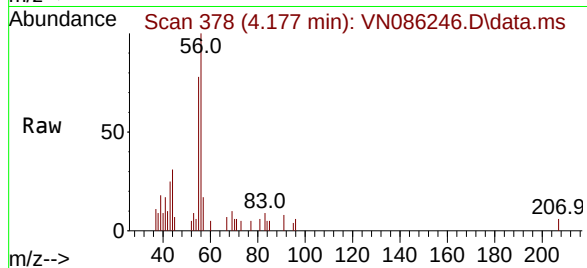
55 69.7 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#14

Acrylonitrile

Concen: 25.638 ug/l

RT: 5.718 min Scan# 640

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

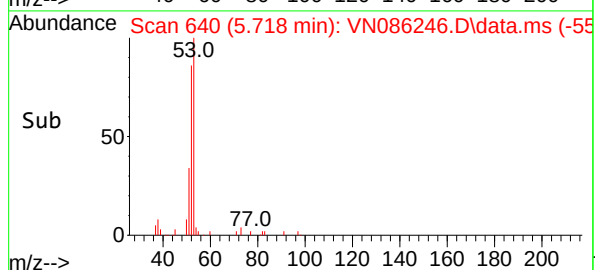
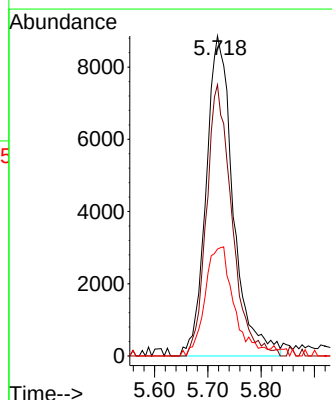
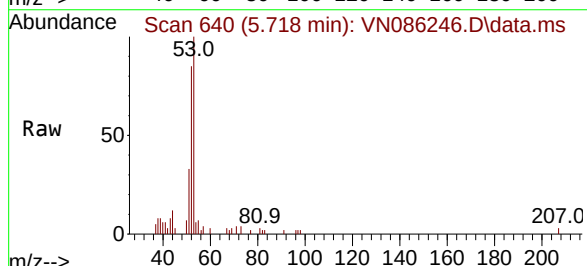
Tgt Ion: 53 Resp: 31353

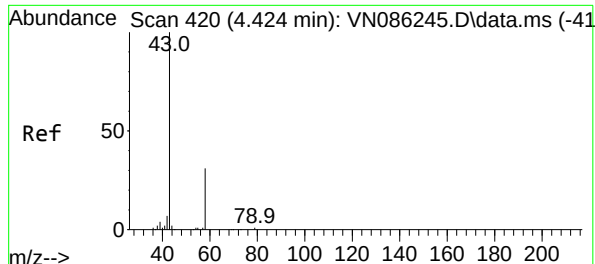
Ion Ratio Lower Upper

53 100

52 78.8 40.2 120.6

51 33.7 17.5 52.6





#15

Acetone

Concen: 26.259 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 58 Resp: 8149

Ion Ratio Lower Upper

58 100

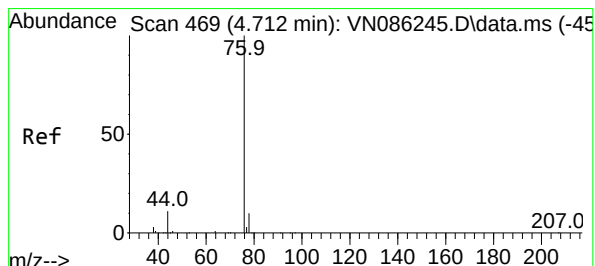
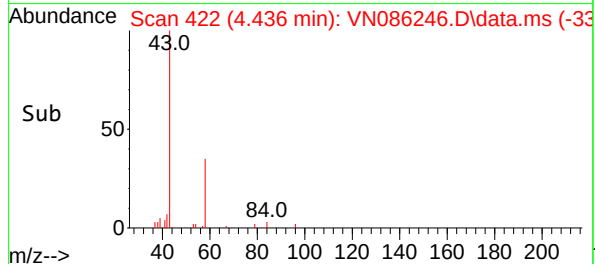
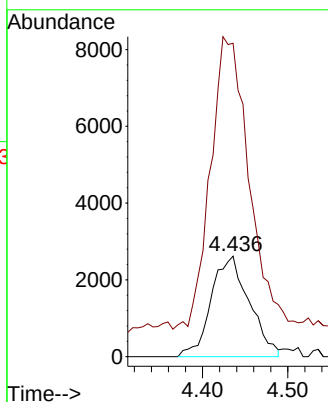
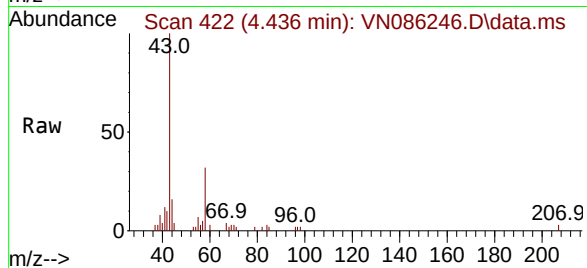
43 280.1 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#16

Carbon Disulfide

Concen: 5.469 ug/l

RT: 4.712 min Scan# 469

Delta R.T. -0.000 min

Lab File: VN086246.D

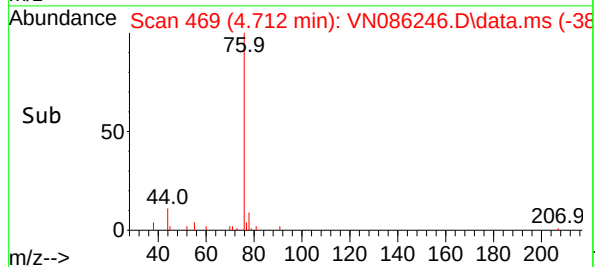
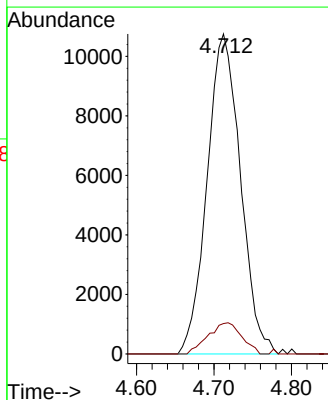
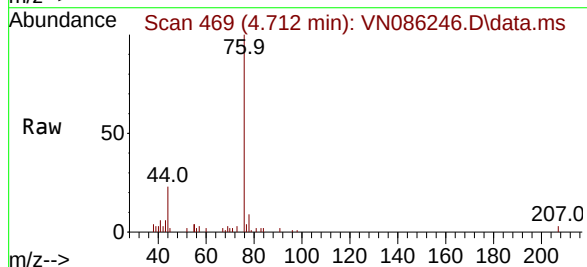
Acq: 11 Apr 2025 12:40

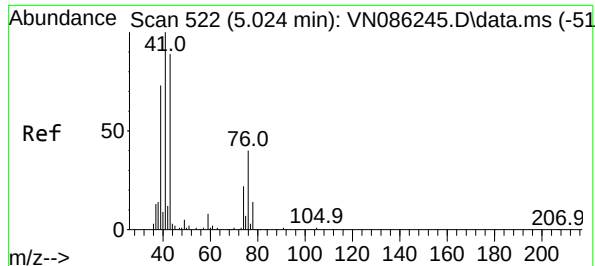
Tgt Ion: 76 Resp: 32171

Ion Ratio Lower Upper

76 100

78 9.5 7.7 11.5





#17

Allyl chloride

Concen: 5.217 ug/l

RT: 5.024 min Scan# 51

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

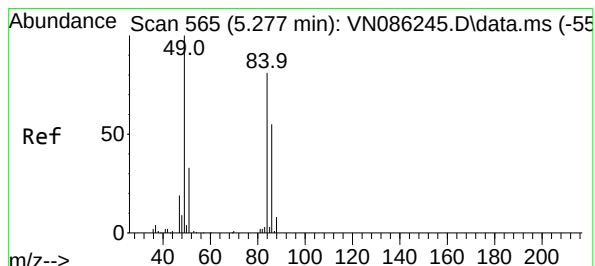
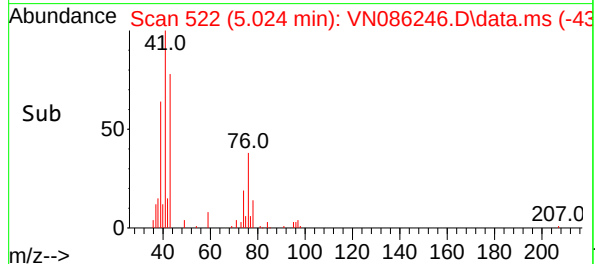
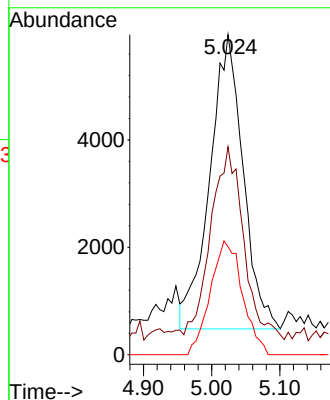
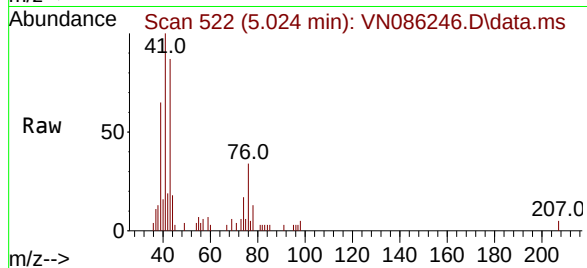
Tgt Ion:	41	Resp:	1865
Ion	Ratio	Lower	Upper
41	100		
39	63.8	34.4	103.2
76	36.7	18.8	56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#18

Methylene Chloride

Concen: 5.487 ug/l

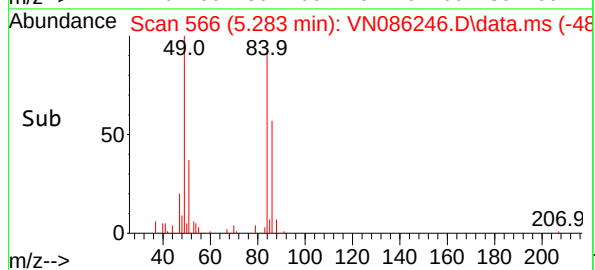
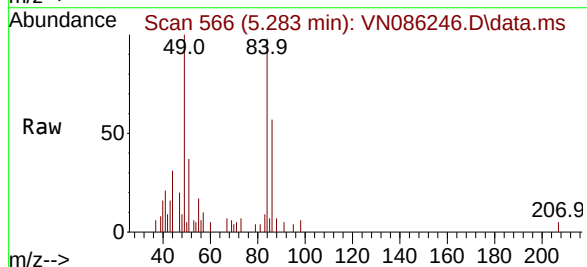
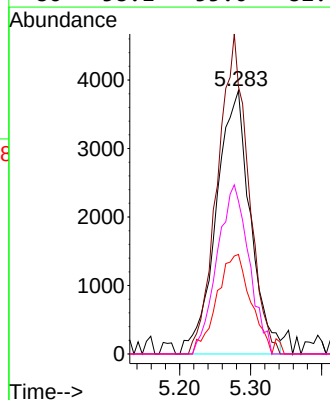
RT: 5.283 min Scan# 566

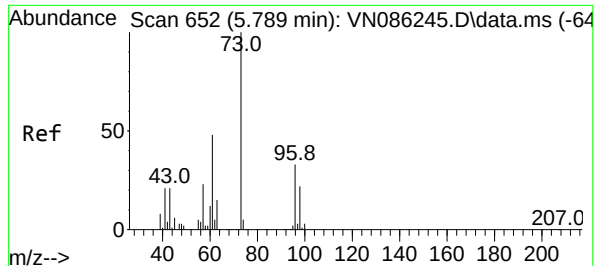
Delta R.T. 0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	84	Resp:	12832
Ion	Ratio	Lower	Upper
84	100		
49	101.6	99.1	148.7
51	37.8	32.3	48.5
86	58.1	55.0	82.4





#19

trans-1,2-Dichloroethene

Concen: 6.348 ug/l m

RT: 5.777 min Scan# 61

Delta R.T. -0.012 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 1174

Ion Ratio Lower Upper

96 100

61 125.3 115.9 173.9

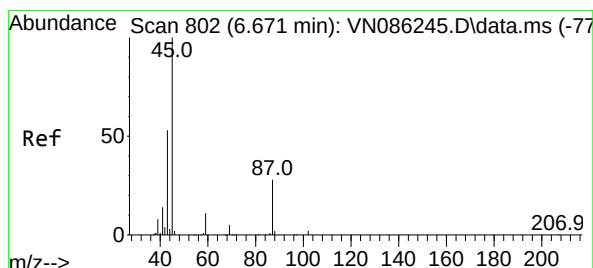
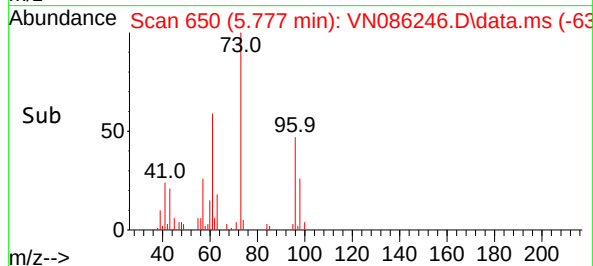
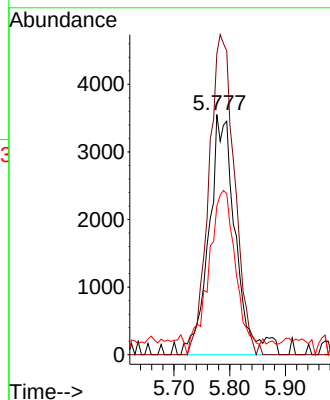
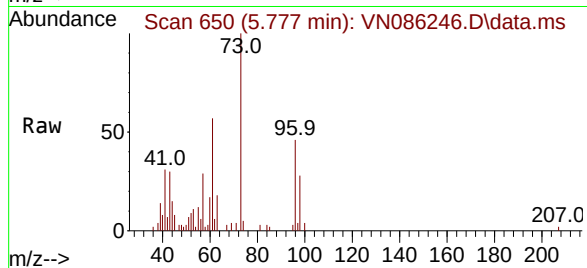
98 61.9 52.1 78.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#20

Diisopropyl ether

Concen: 4.868 ug/l

RT: 6.671 min Scan# 802

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion: 45 Resp: 37420

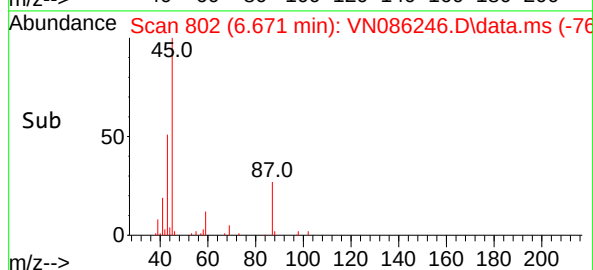
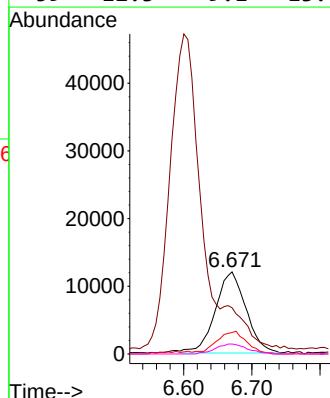
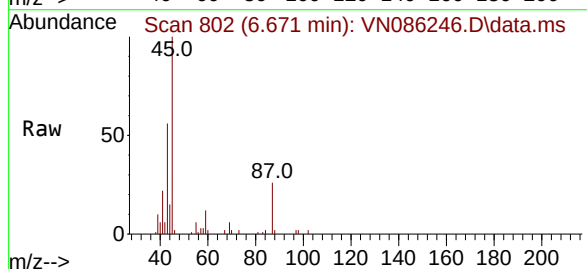
Ion Ratio Lower Upper

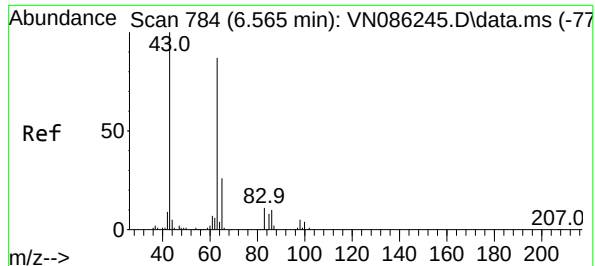
45 100

43 49.8 42.3 63.5

87 26.5 22.2 33.4

59 12.3 9.1 13.7





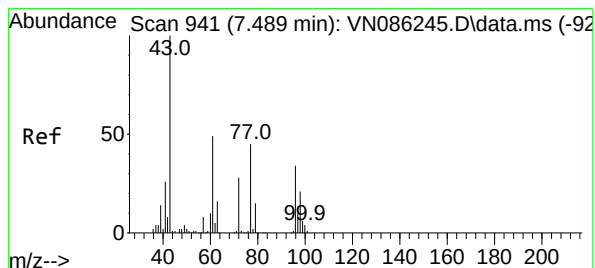
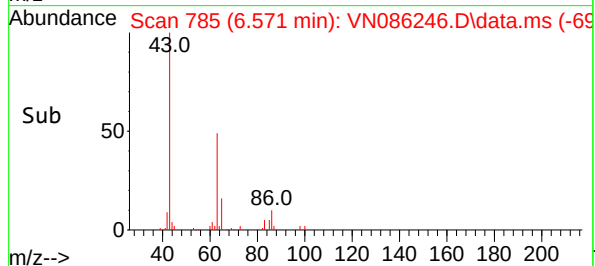
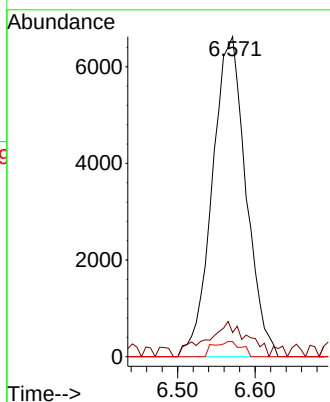
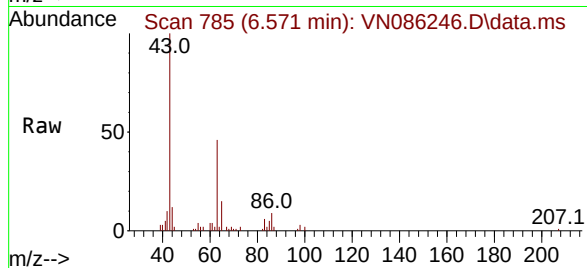
#21
1,1-Dichloroethane
Concen: 4.883 ug/l
RT: 6.571 min Scan# 784
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:	63	Resp:	20024
Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.1	9.3
100	4.7	2.3	6.9

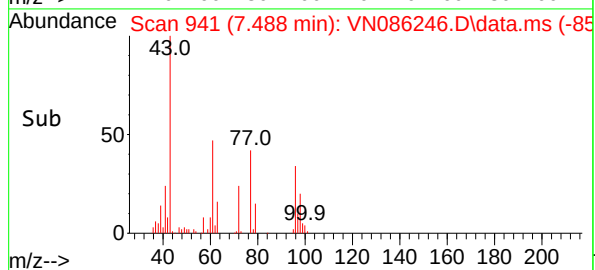
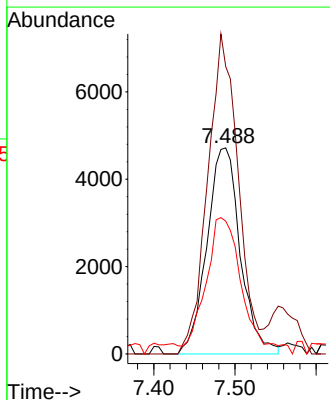
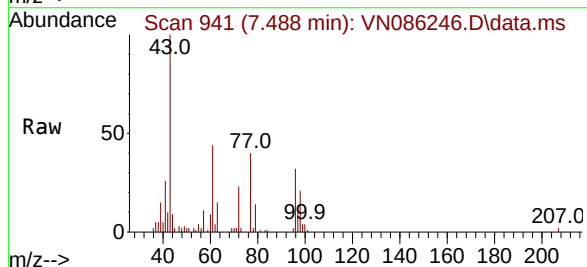
Manual Integrations
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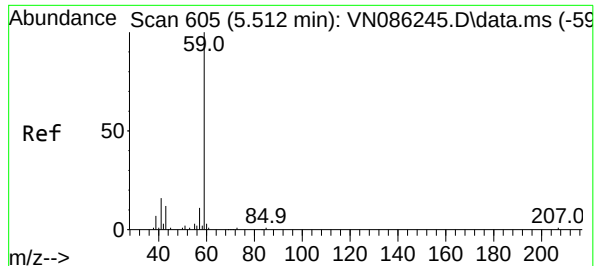
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#22
cis-1,2-Dichloroethene
Concen: 5.234 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:	96	Resp:	13471
Ion	Ratio	Lower	Upper
96	100		
61	141.2	119.5	179.3
98	61.3	51.0	76.6





#23

tert-Butyl Alcohol

Concen: 25.247 ug/l

RT: 5.518 min Scan# 605

Delta R.T. 0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 59 Resp: 1279

Ion Ratio Lower Upper

59 100

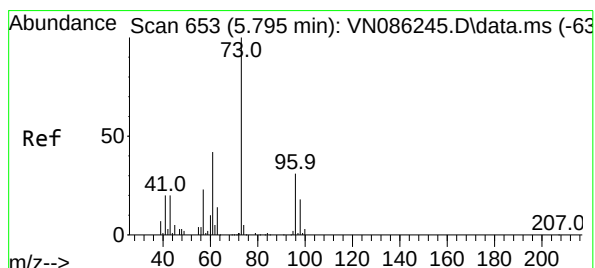
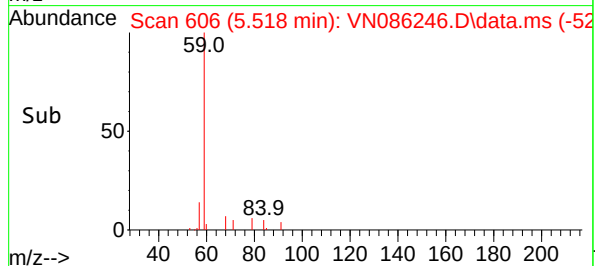
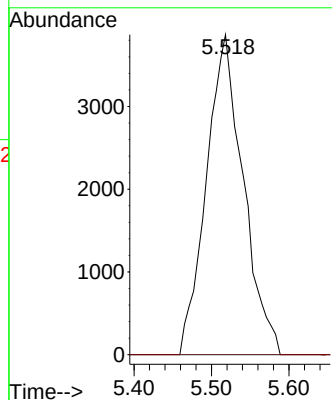
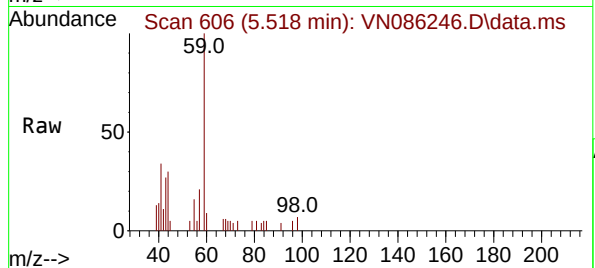
52 0.0 0.0 0.0

Manual Integrations

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Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#24

Methyl tert-Butyl Ether

Concen: 5.147 ug/l m

RT: 5.794 min Scan# 653

Delta R.T. -0.000 min

Lab File: VN086246.D

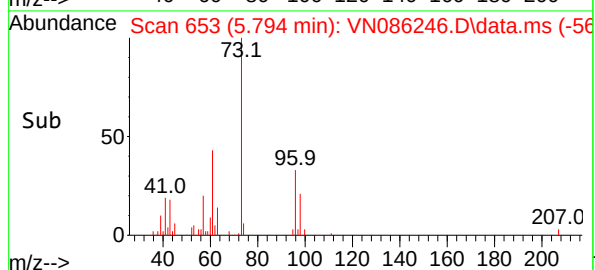
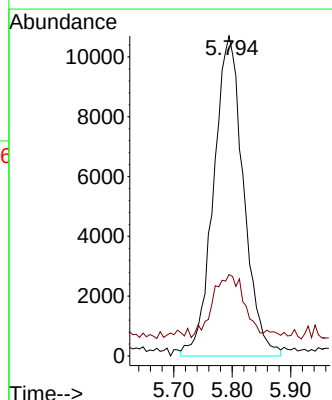
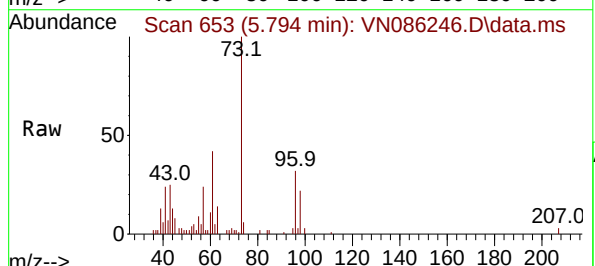
Acq: 11 Apr 2025 12:40

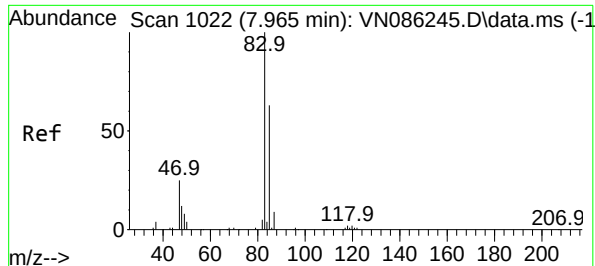
Tgt Ion: 73 Resp: 38035

Ion Ratio Lower Upper

73 100

43 0.1 16.8 25.2#





#25

Chloroform

Concen: 5.022 ug/l

RT: 7.959 min Scan# 1021

Delta R.T. -0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 19640

Ion Ratio Lower Upper

83 100

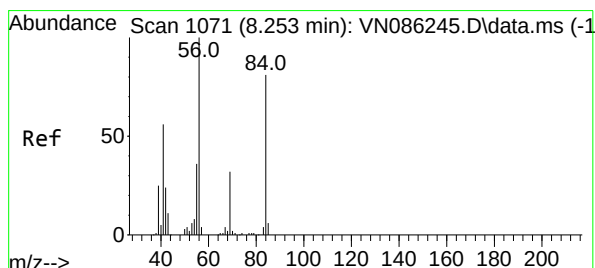
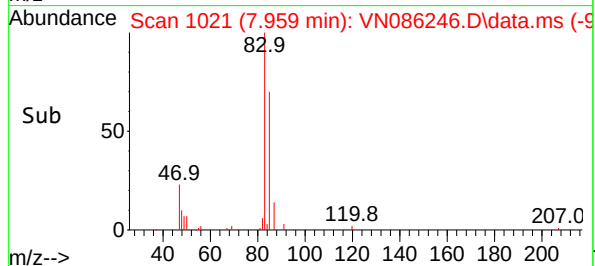
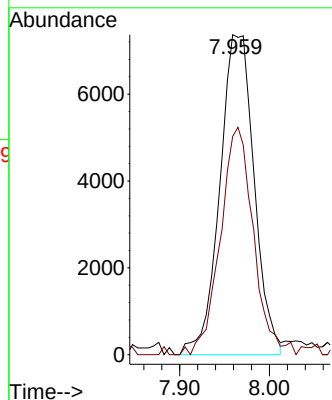
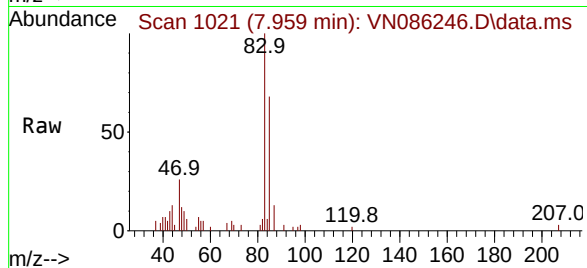
85 68.2 50.5 75.7

Manual Integrations

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Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#26

Cyclohexane

Concen: 4.999 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

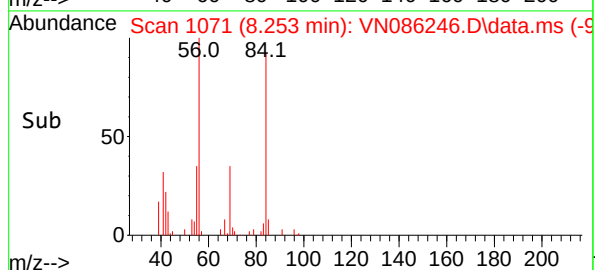
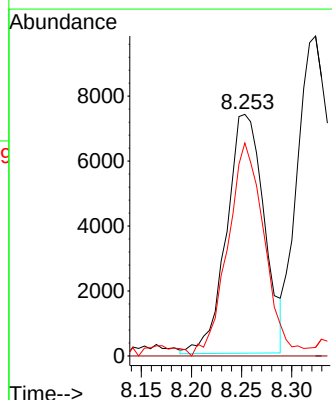
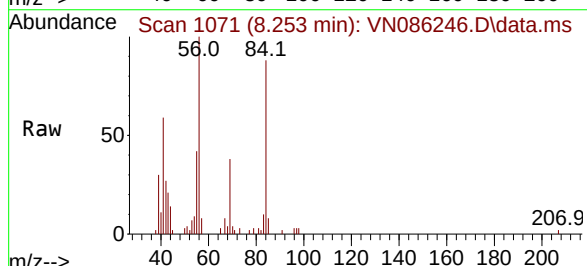
Tgt Ion: 56 Resp: 19181

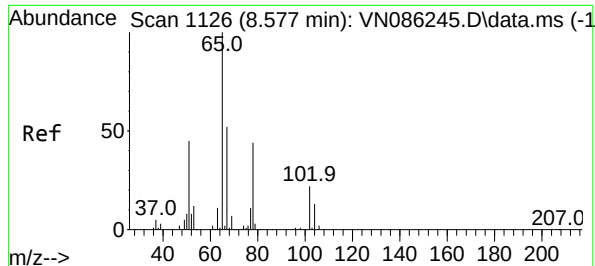
Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

84 86.6 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 30.785 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 8088

Ion Ratio Lower Upper

65 100

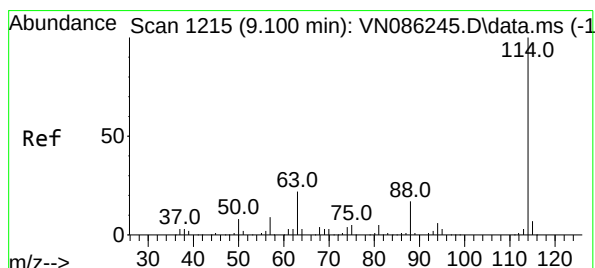
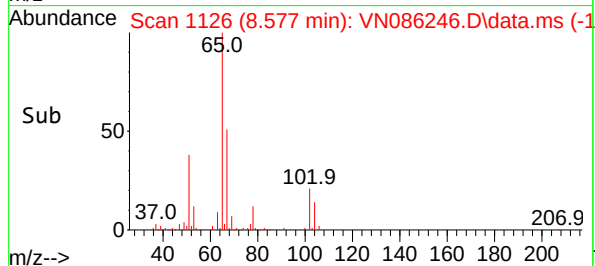
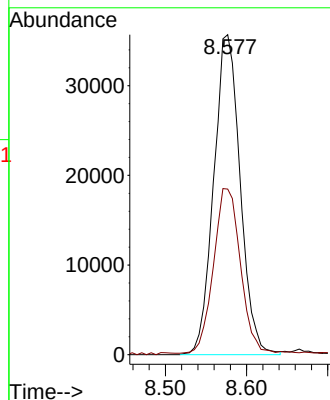
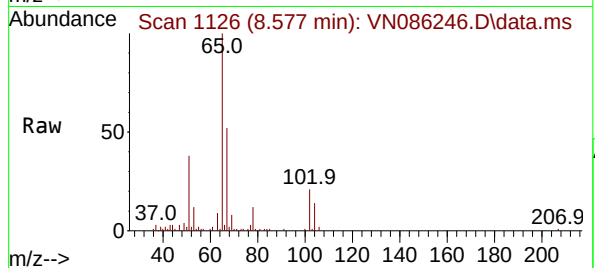
67 52.0 43.4 65.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

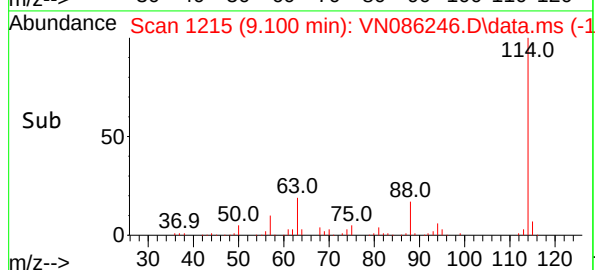
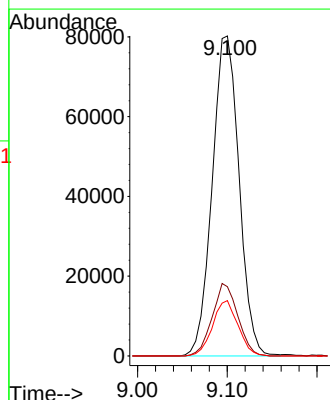
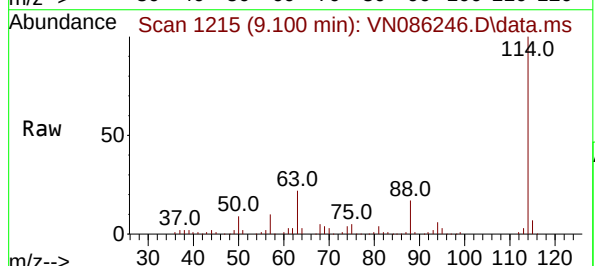
Tgt Ion:114 Resp: 166827

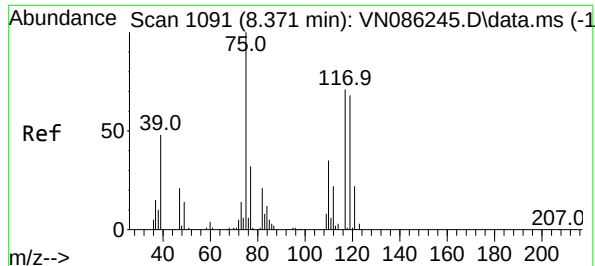
Ion Ratio Lower Upper

114 100

63 21.5 17.8 26.6

88 16.4 13.4 20.2





#29

1,1-Dichloropropene

Concen: 4.803 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

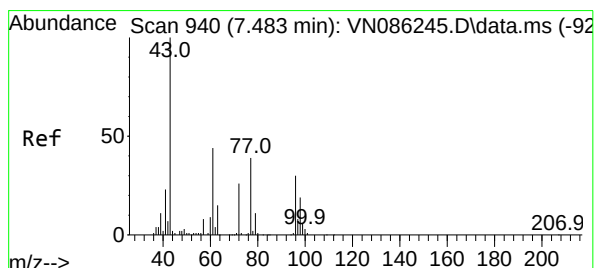
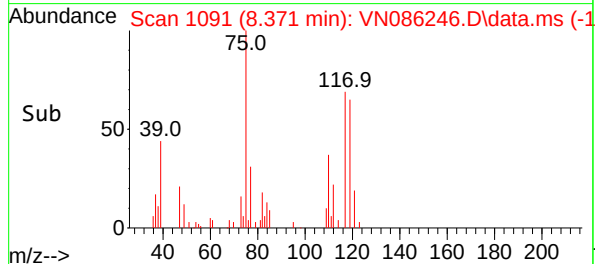
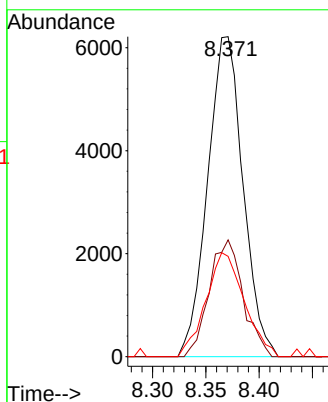
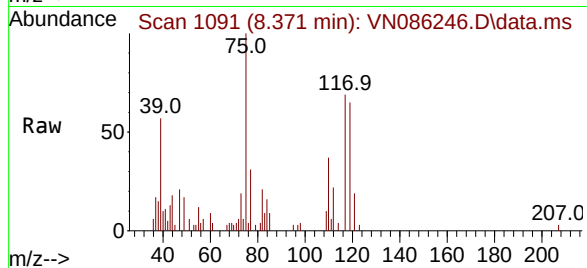
Tgt Ion:	75	Resp:	1435
Ion	Ratio	Lower	Upper
75	100		
110	34.9	0.0	68.6
77	35.2	0.0	63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#30

2-Butanone

Concen: 24.089 ug/l

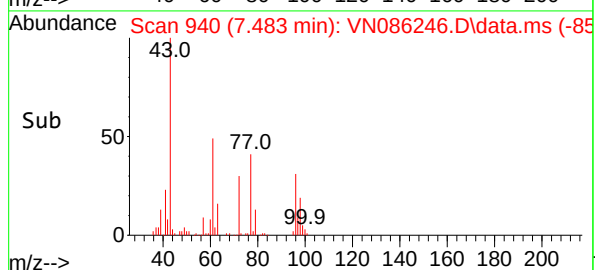
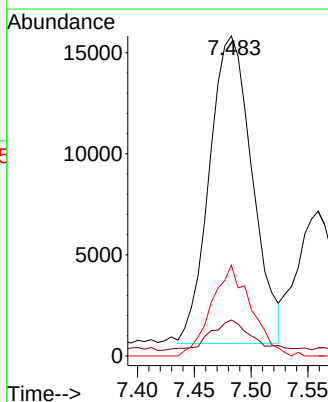
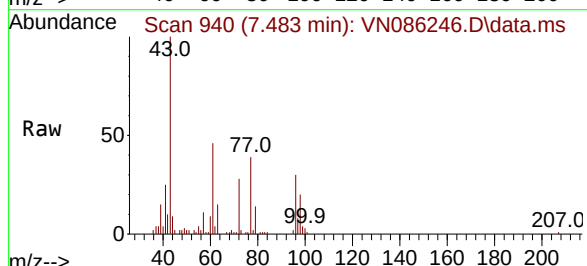
RT: 7.483 min Scan# 940

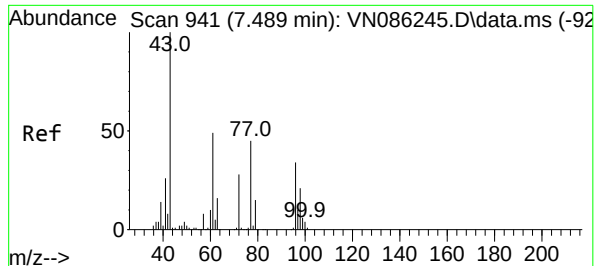
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	43	Resp:	39891
Ion	Ratio	Lower	Upper
43	100		
57	7.0	6.4	9.6
72	27.2	21.5	32.3





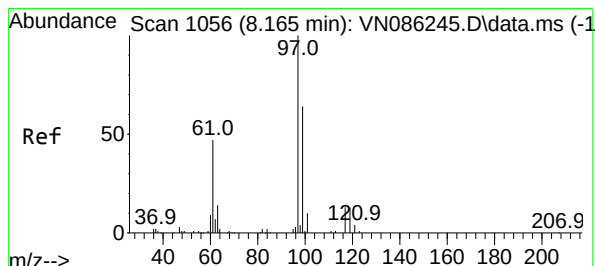
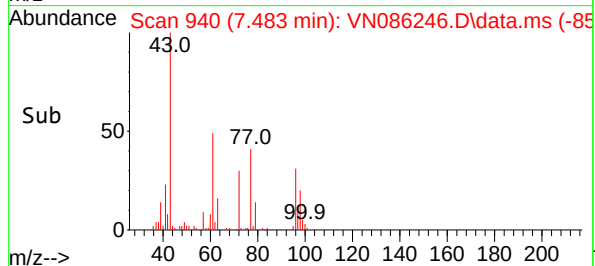
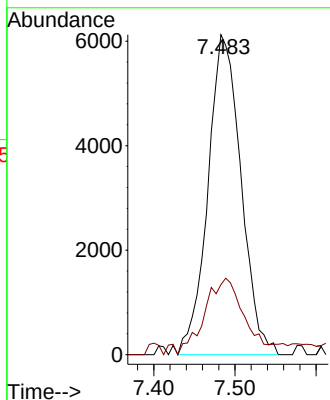
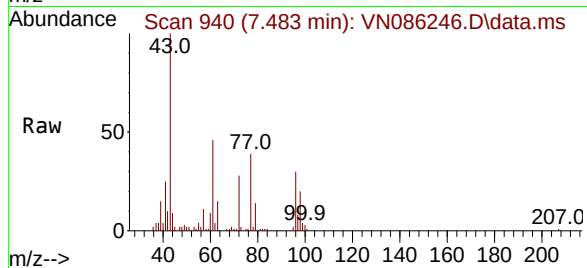
#31
2,2-Dichloropropane
Concen: 4.711 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 77 Resp: 1733
Ion Ratio Lower Upper
77 100
97 15.5 18.8 28.2

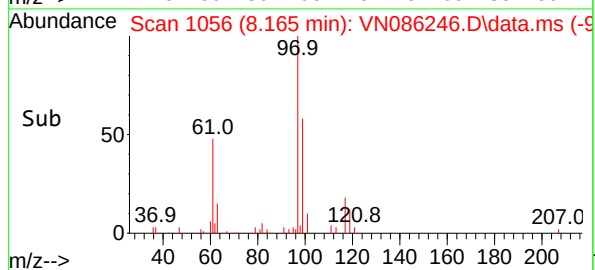
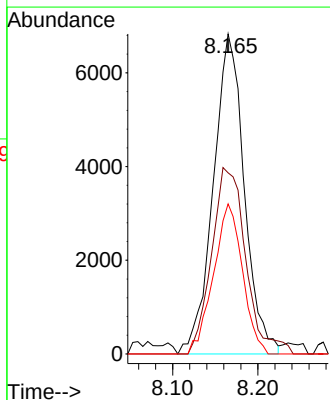
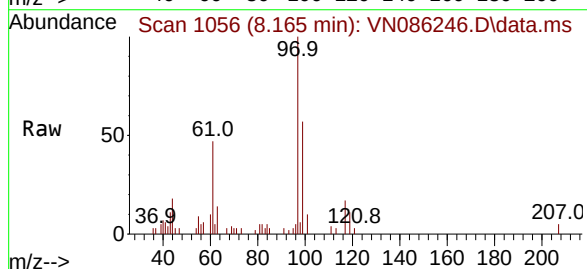
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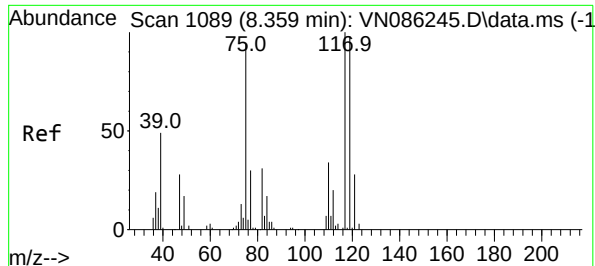
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#32
1,1,1-Trichloroethane
Concen: 5.024 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

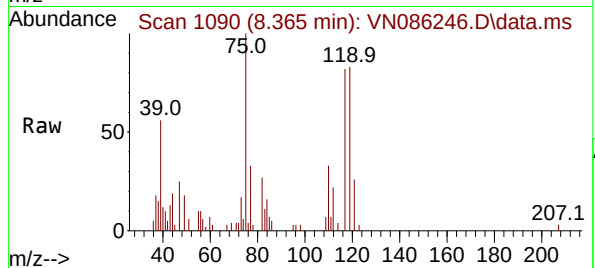
Tgt Ion: 97 Resp: 17271
Ion Ratio Lower Upper
97 100
99 64.2 51.4 77.2
61 43.9 37.0 55.6





#33
Carbon Tetrachloride
Concen: 4.633 ug/l
RT: 8.365 min Scan# 1089
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

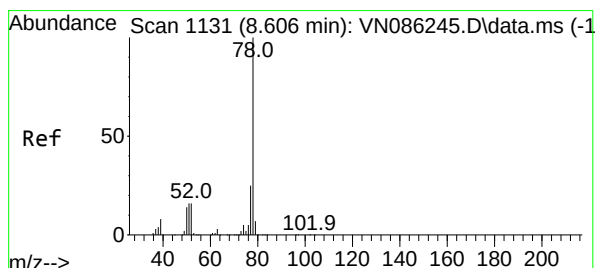
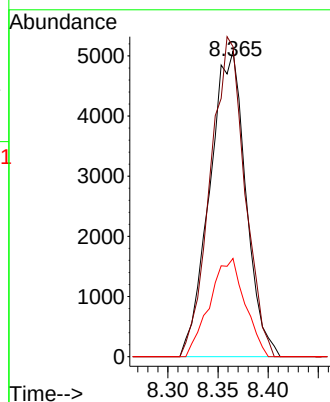
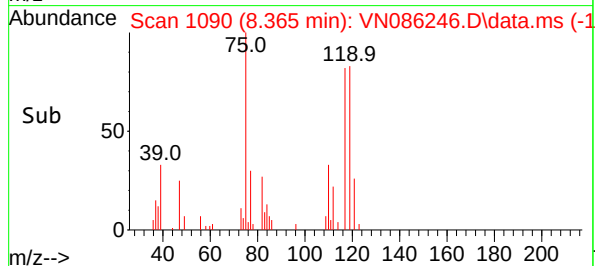
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 117 Resp: 1272
Ion Ratio Lower Upper
117 100
119 101.5 78.3 117.5
121 32.2 22.5 33.7

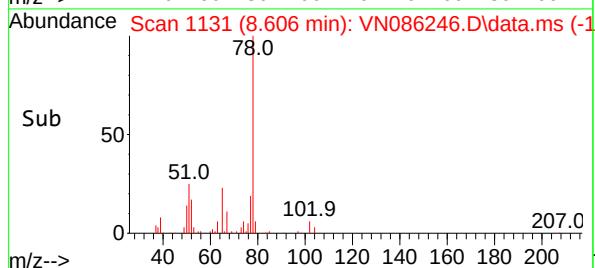
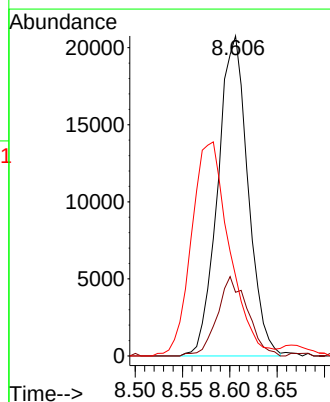
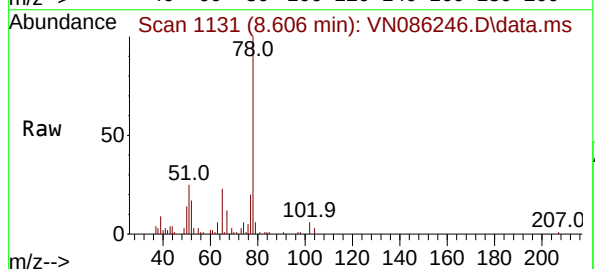
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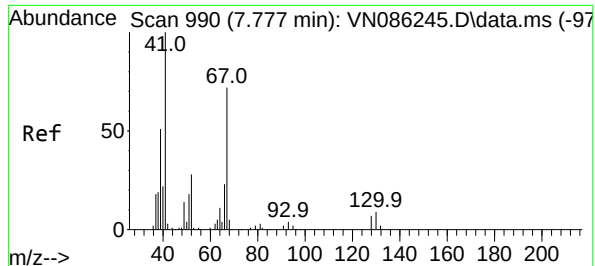
Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025



#34
Benzene
Concen: 4.845 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 78 Resp: 46065
Ion Ratio Lower Upper
78 100
77 19.9 20.0 30.0#
51 22.7 12.9 19.3#





#35

Methacrylonitrile

Concen: 5.037 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 41 Resp: 940

Ion Ratio Lower Upper

41 100

39 57.0 25.8 77.3

67 70.6 36.0 108.0

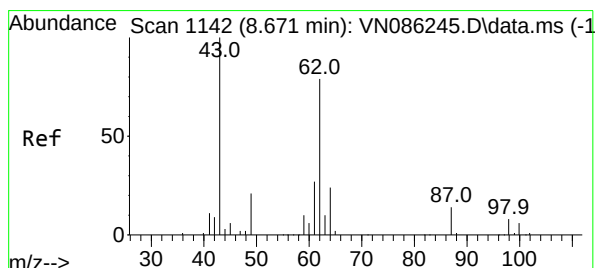
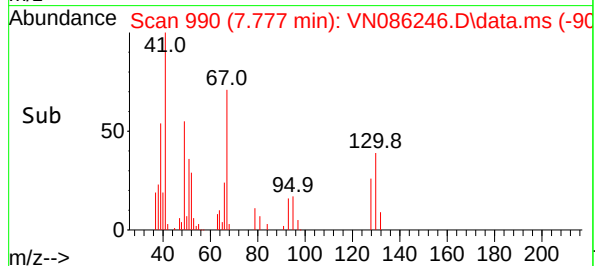
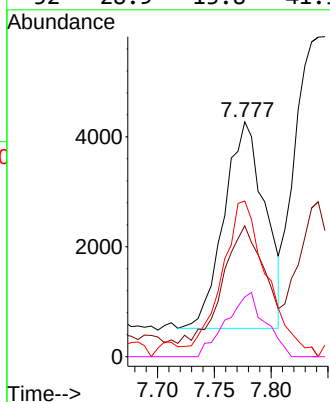
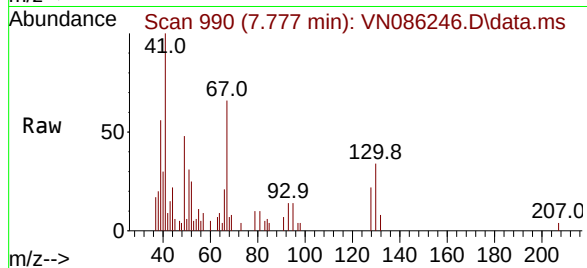
52 28.9 13.8 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#36

1,2-Dichloroethane

Concen: 4.823 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN086246.D

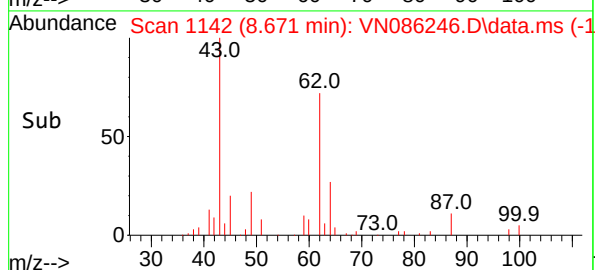
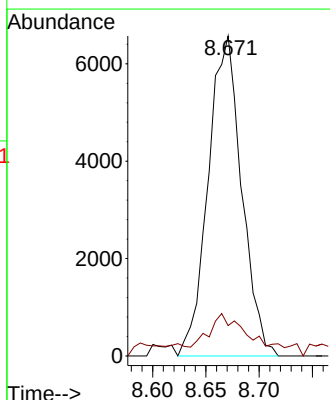
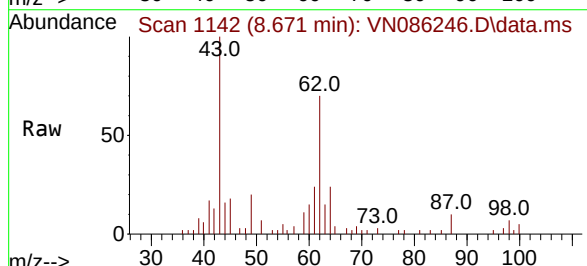
Acq: 11 Apr 2025 12:40

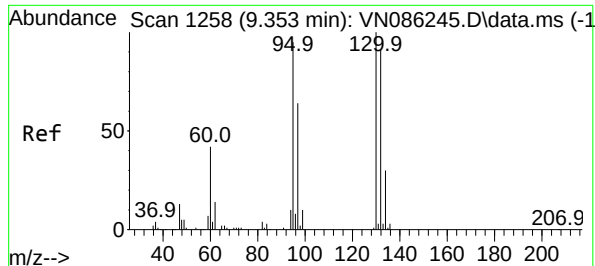
Tgt Ion: 62 Resp: 14350

Ion Ratio Lower Upper

62 100

98 5.6 8.6 12.8#





#37

Trichloroethene

Concen: 4.697 ug/l

RT: 9.353 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:130 Resp: 10774

Ion Ratio Lower Upper

130 100

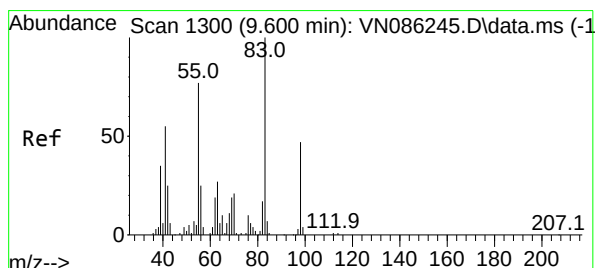
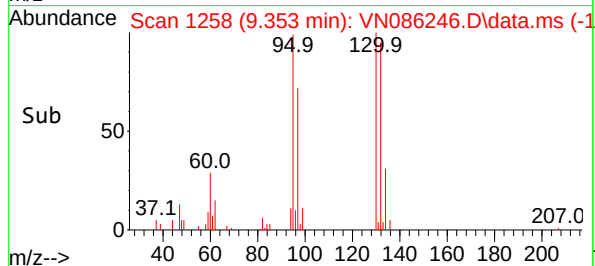
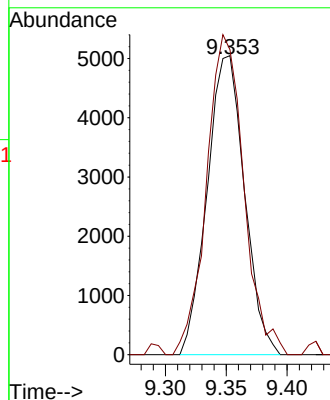
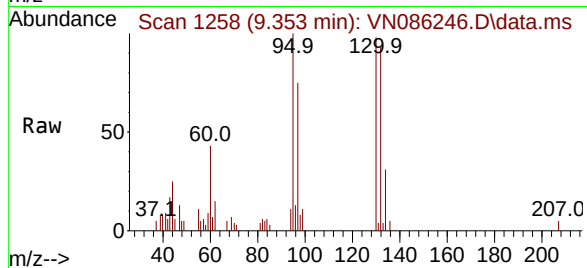
95 98.0 76.4 114.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#38

Methylcyclohexane

Concen: 4.929 ug/l

RT: 9.600 min Scan# 1300

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

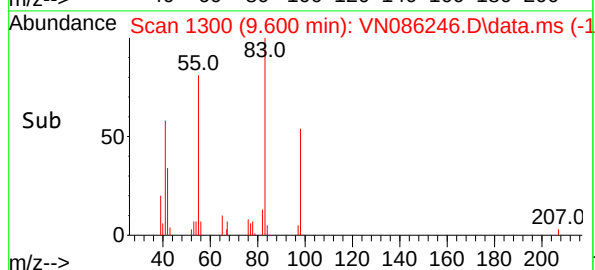
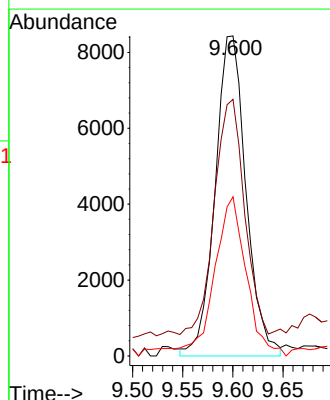
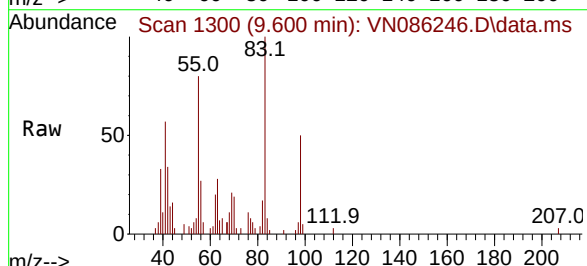
Tgt Ion: 83 Resp: 18064

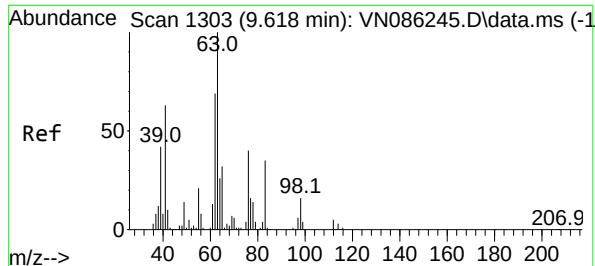
Ion Ratio Lower Upper

83 100

55 74.6 38.5 115.5

98 50.9 24.4 73.2





#39

1,2-Dichloropropane

Concen: 4.735 ug/l

RT: 9.618 min Scan# 1120

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 1120

Ion Ratio Lower Upper

63 100

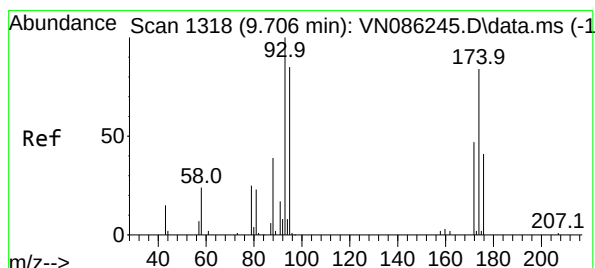
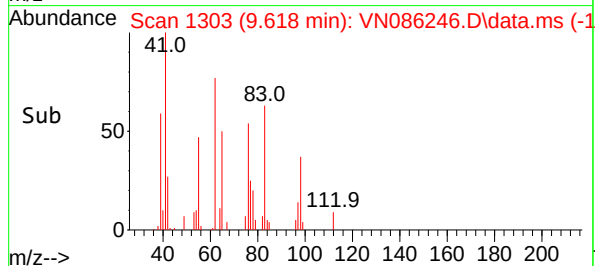
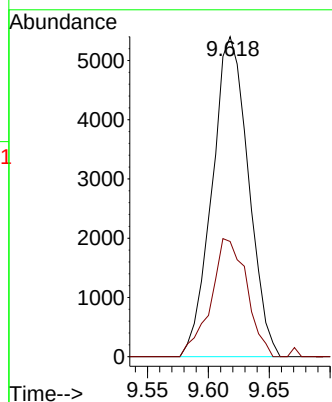
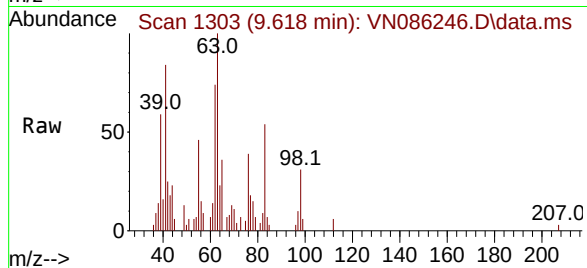
65 36.0 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 5.042 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

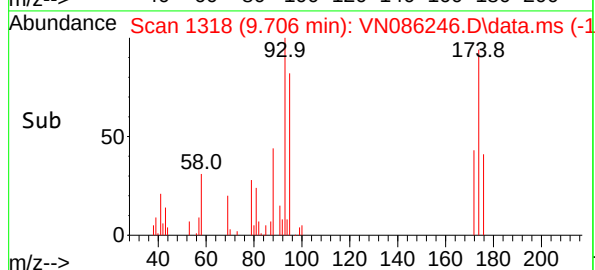
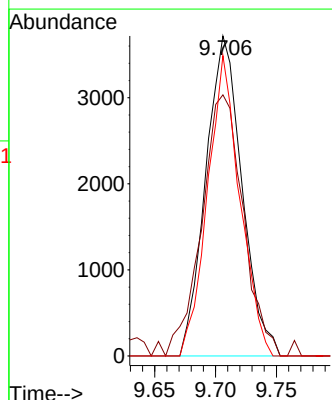
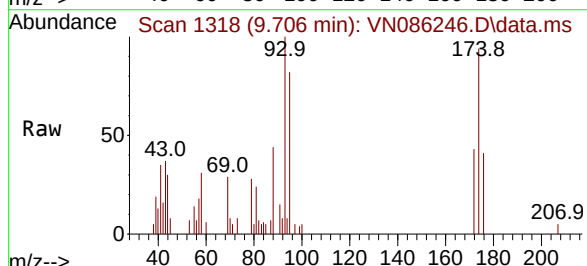
Tgt Ion: 93 Resp: 7704

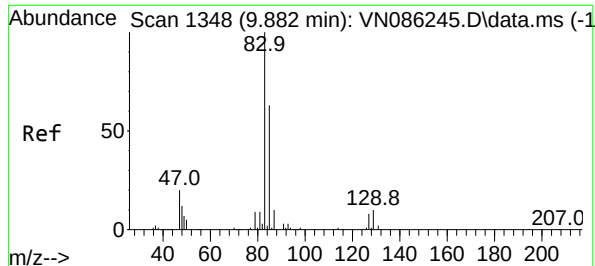
Ion Ratio Lower Upper

93 100

95 93.0 0.0 169.0

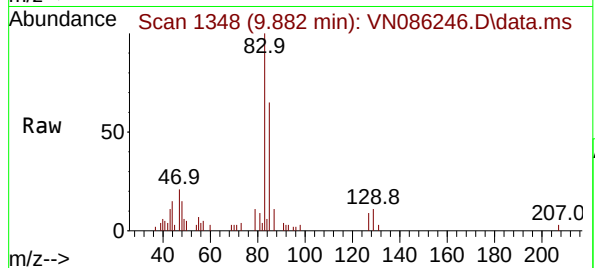
174 83.9 0.0 168.0





#41
Bromodichloromethane
Concen: 5.109 ug/l
RT: 9.882 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

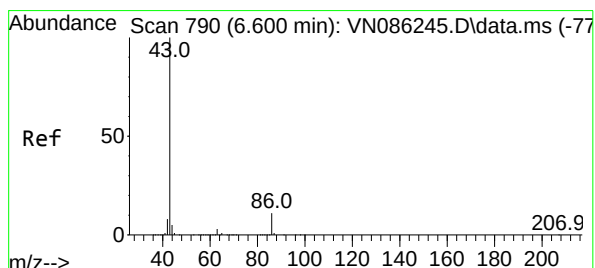
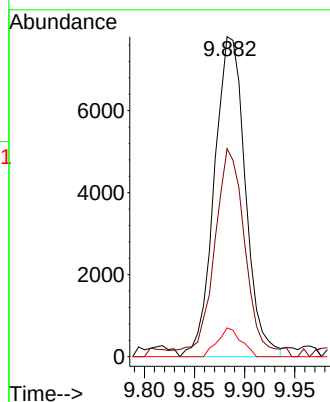
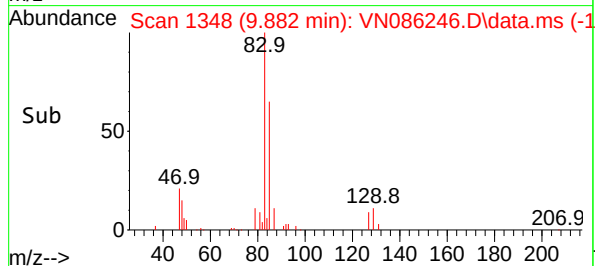
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 83 Resp: 16772
Ion Ratio Lower Upper
83 100
85 62.7 50.2 75.2
127 9.0 6.2 9.4

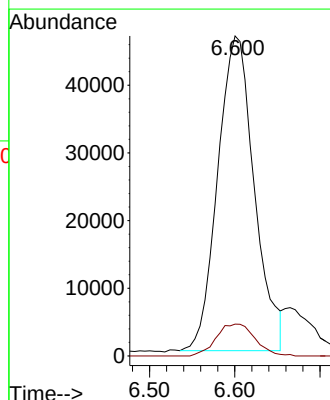
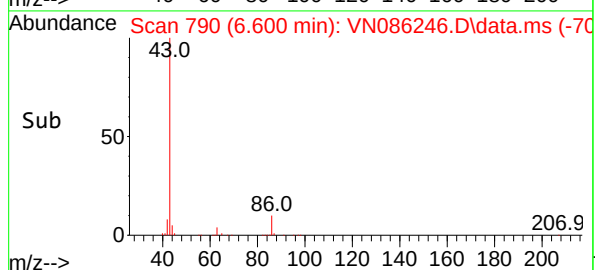
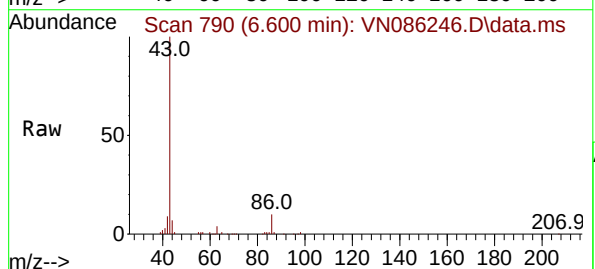
Manual Integrations
APPROVED

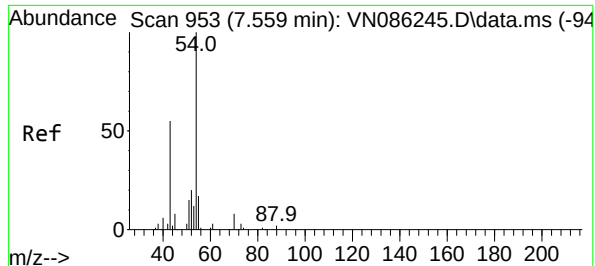
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 24.613 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 43 Resp: 138739
Ion Ratio Lower Upper
43 100
86 10.7 8.4 12.6





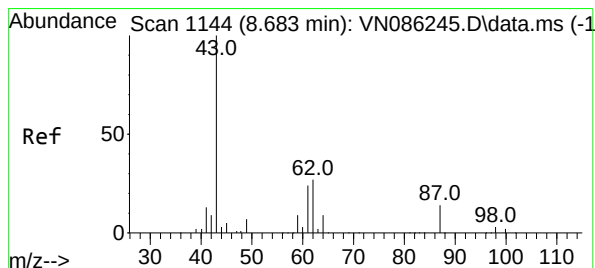
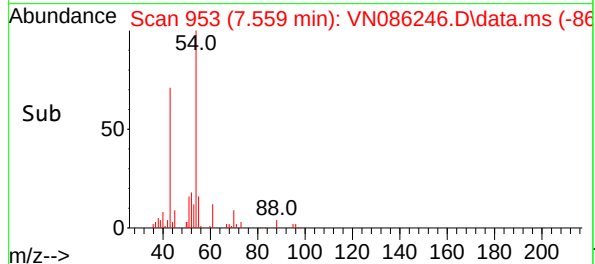
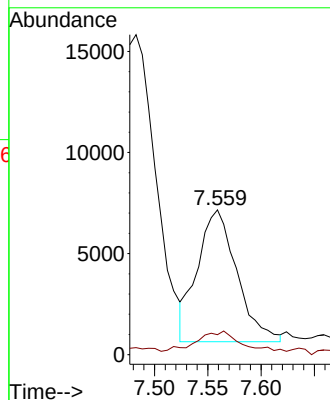
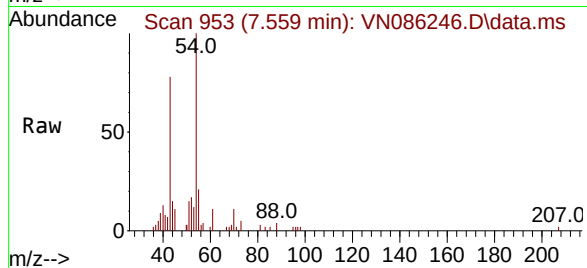
#43
Ethyl Acetate
Concen: 5.045 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 16850
Ion Ratio Lower Upper
43 100
45 5.4 11.2 16.8

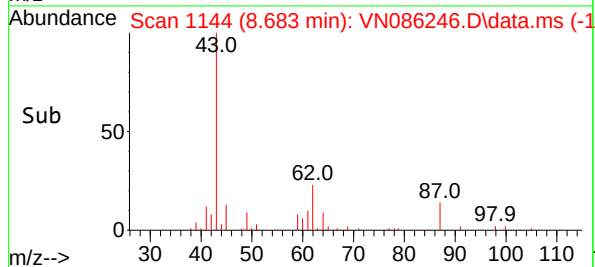
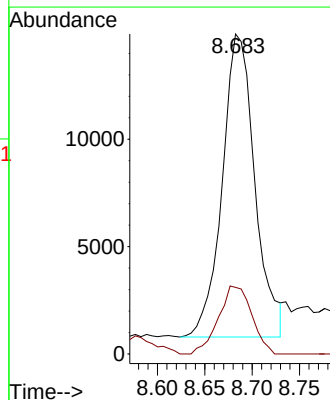
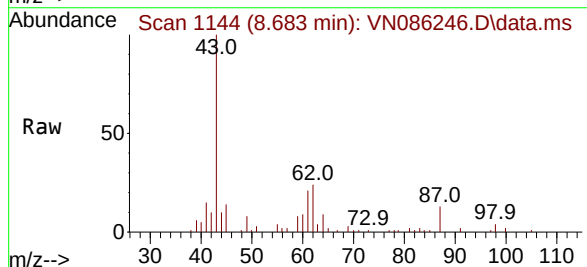
Manual Integrations
APPROVED

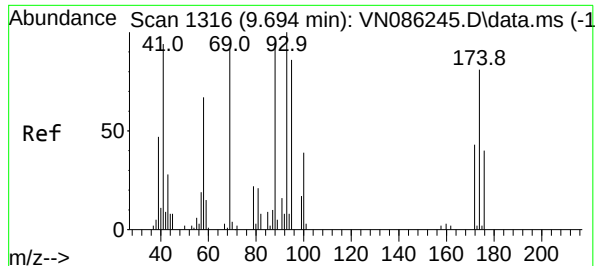
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#44
Isopropyl Acetate
Concen: 5.463 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 43 Resp: 33849
Ion Ratio Lower Upper
43 100
61 22.8 20.5 30.7





#45

1,4-Dioxane

Concen: 97.983 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 88 Resp: 4828

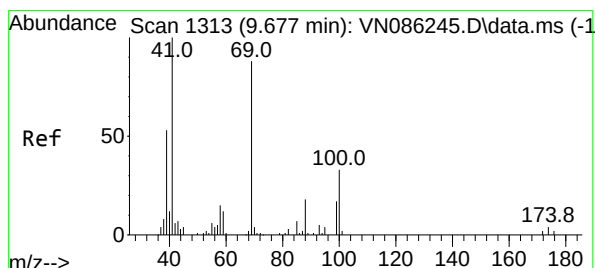
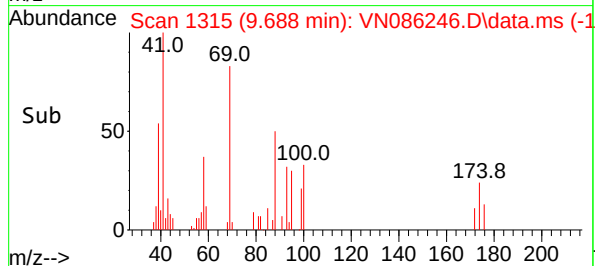
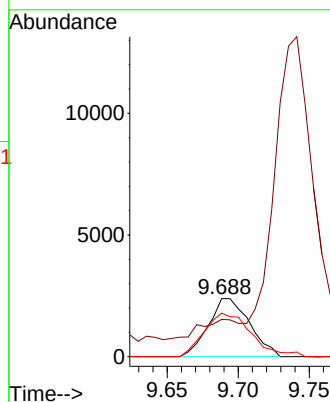
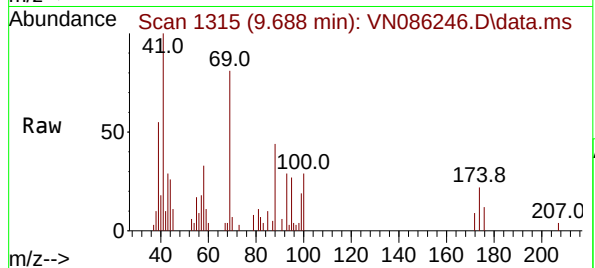
Ion	Ratio	Lower	Upper
88	100		
43	5.9	14.4	21.6
58	84.2	59.8	89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#46

Methyl methacrylate

Concen: 4.759 ug/l

RT: 9.677 min Scan# 1313

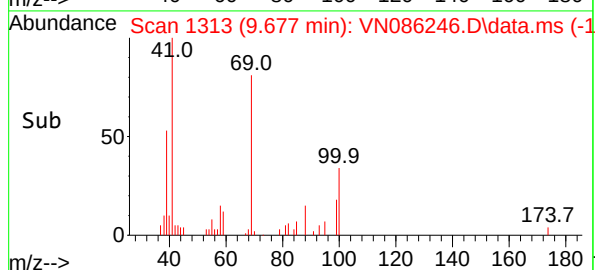
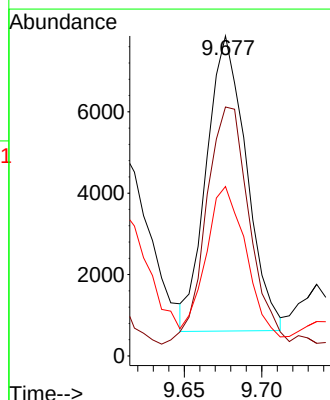
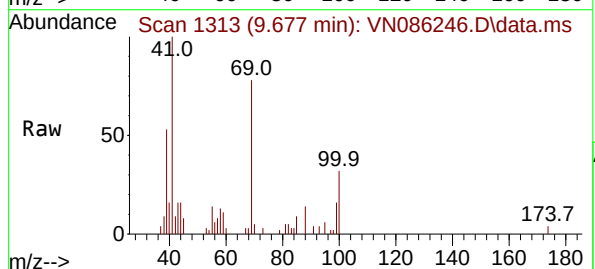
Delta R.T. -0.000 min

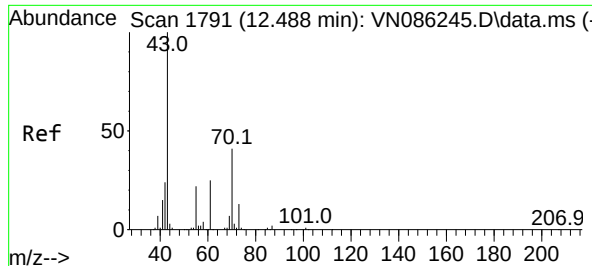
Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion: 41 Resp: 12994

Ion	Ratio	Lower	Upper
41	100		
69	79.8	43.2	129.6
39	53.4	26.4	79.0





#47

n-amy1 Acetate

Concen: 4.860 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 24334

Ion Ratio Lower Upper

43 100

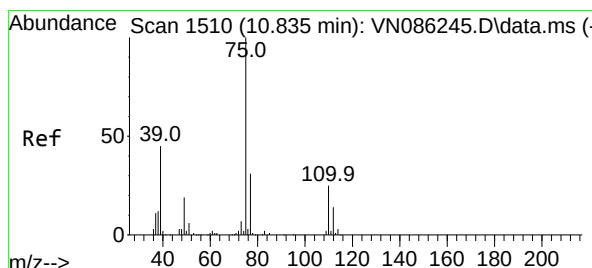
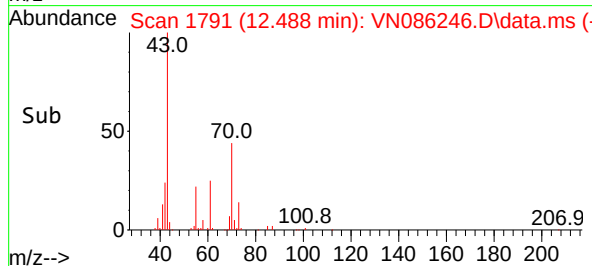
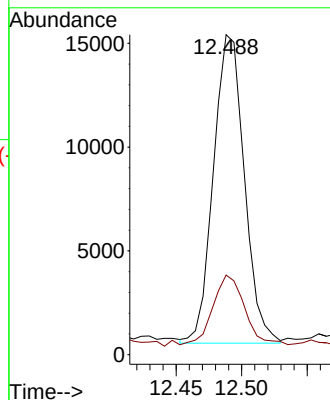
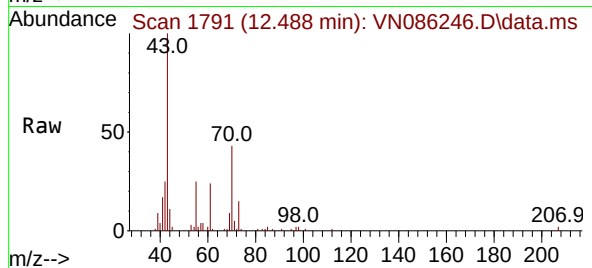
55 22.9 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#48

t-1,3-Dichloropropene

Concen: 4.801 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN086246.D

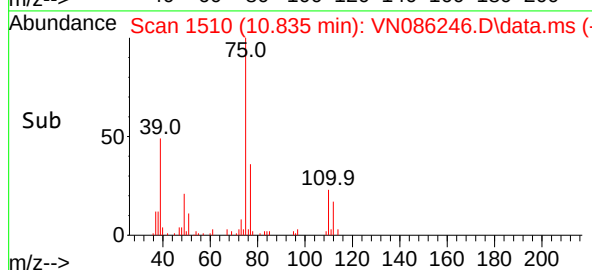
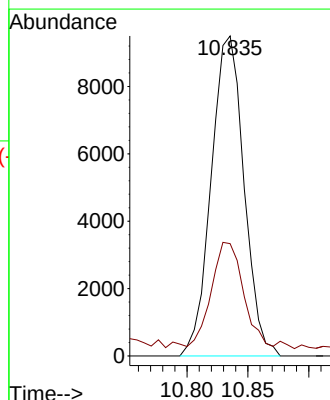
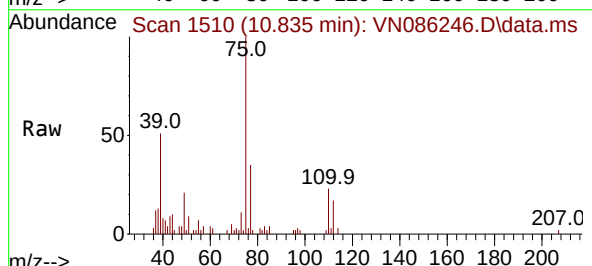
Acq: 11 Apr 2025 12:40

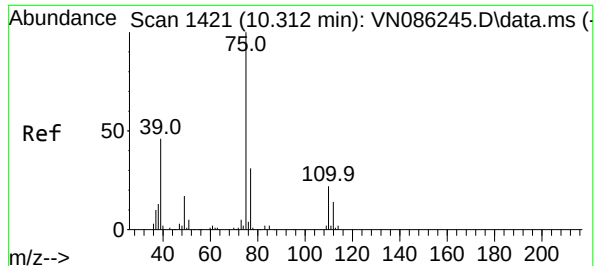
Tgt Ion: 75 Resp: 17815

Ion Ratio Lower Upper

75 100

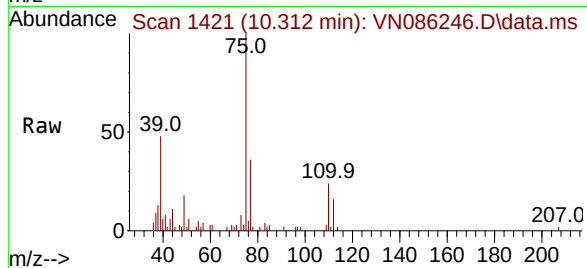
77 31.4 25.1 37.7





#49
cis-1,3-Dichloropropene
Concen: 4.740 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

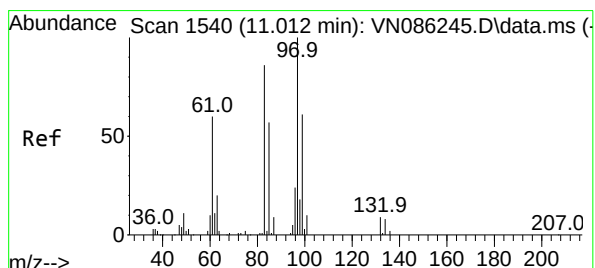
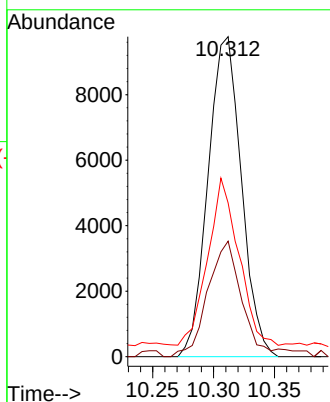
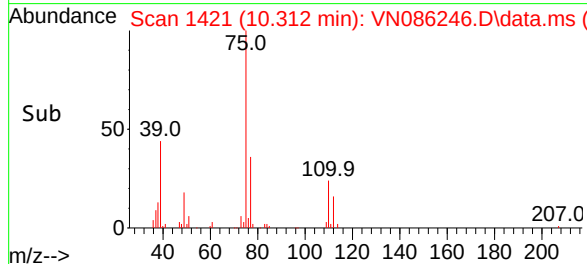
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 75 Resp: 18610
Ion Ratio Lower Upper
75 100
77 34.4 25.0 37.4
39 44.5 36.7 55.1

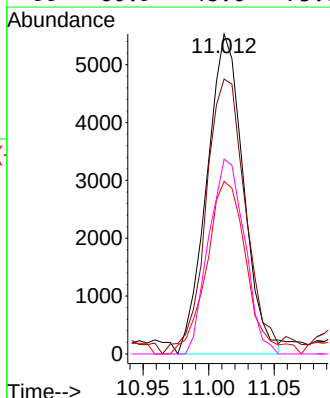
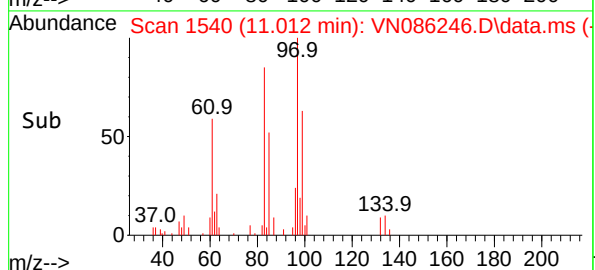
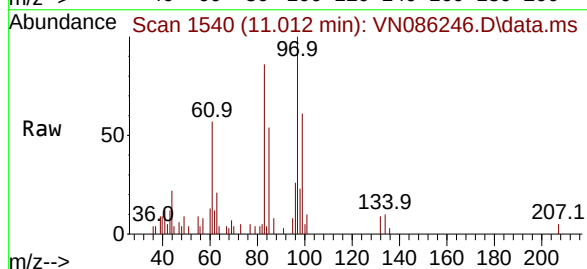
Manual Integrations
APPROVED

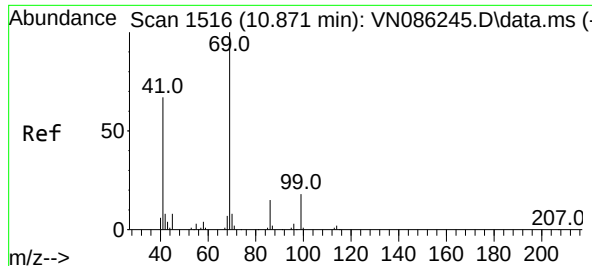
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#50
1,1,2-Trichloroethane
Concen: 4.997 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 97 Resp: 10709
Ion Ratio Lower Upper
97 100
83 82.8 68.6 103.0
85 51.2 45.9 68.9
99 60.9 48.6 73.0





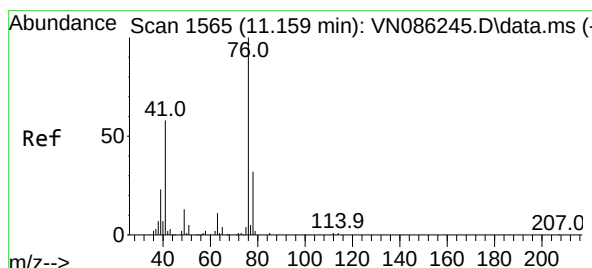
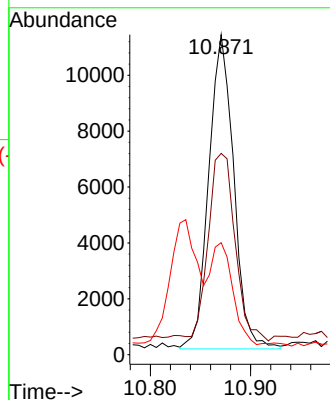
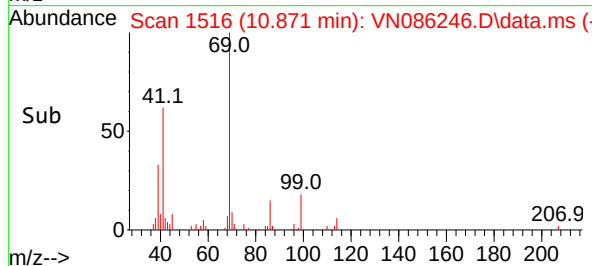
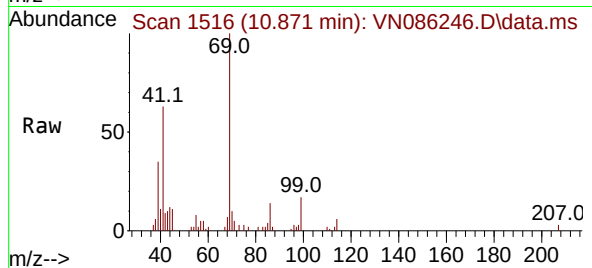
#51
Ethyl methacrylate
Concen: 4.890 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 69 Resp: 1947
Ion Ratio Lower Upper
69 100
41 58.5 33.6 100.6
39 32.2 17.8 53.4

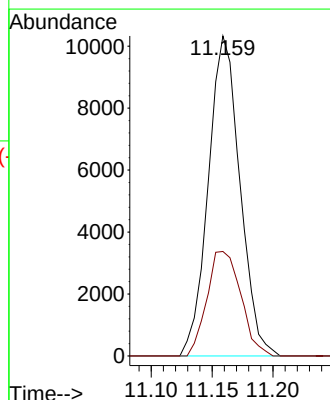
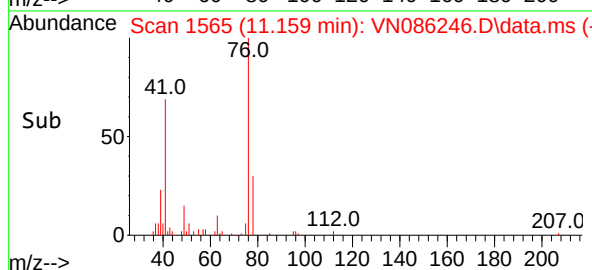
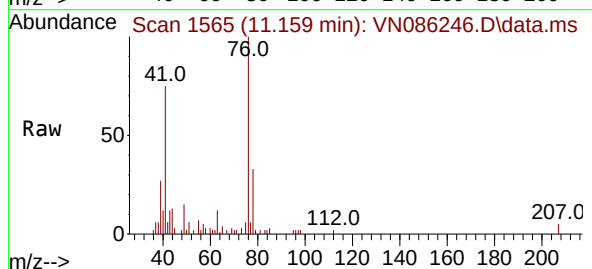
Manual Integrations
APPROVED

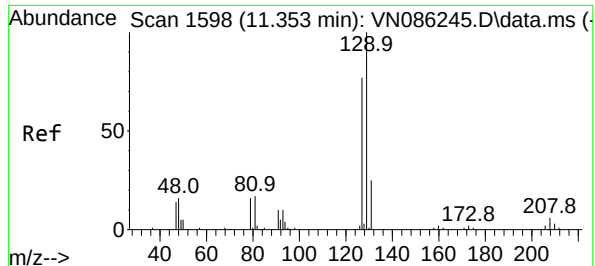
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 4.887 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

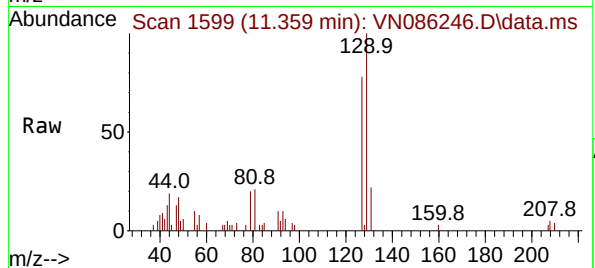
Tgt Ion: 76 Resp: 18666
Ion Ratio Lower Upper
76 100
78 35.0 0.0 64.6





#53
Dibromochloromethane
Concen: 4.813 ug/l
RT: 11.359 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

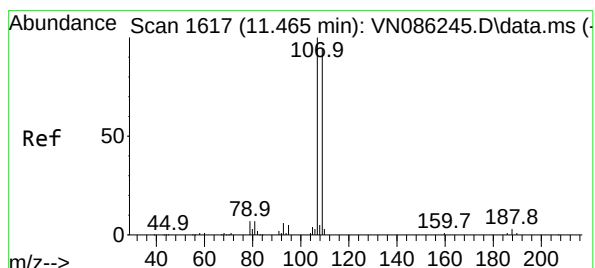
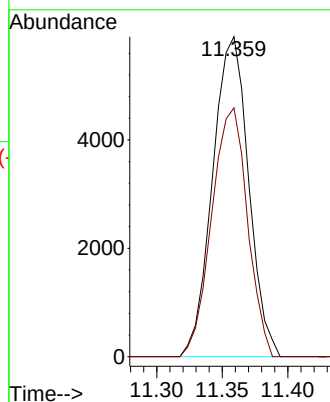
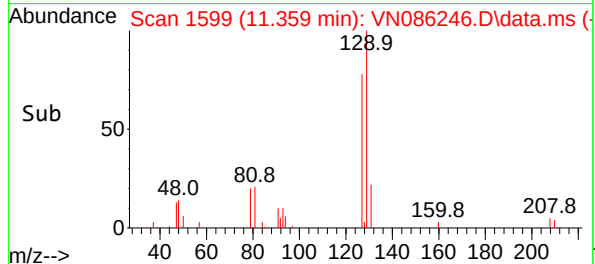
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:129 Resp: 1128
Ion Ratio Lower Upper
129 100
127 77.0 38.5 115.5

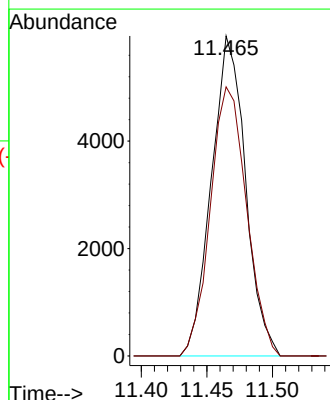
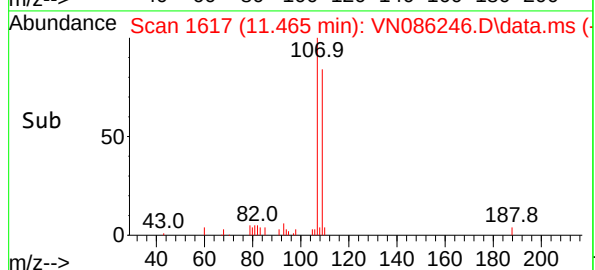
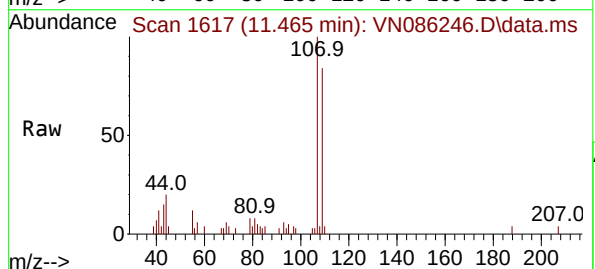
Manual Integrations
APPROVED

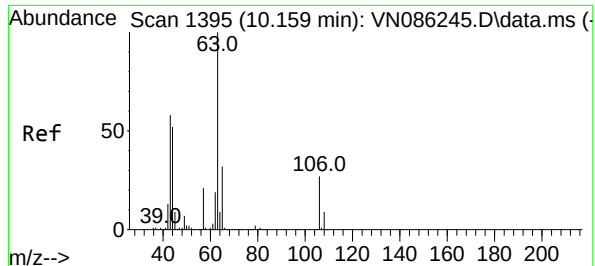
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#54
1,2-Dibromoethane
Concen: 4.965 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:107 Resp: 10742
Ion Ratio Lower Upper
107 100
109 89.5 75.2 112.8





#55

2-Chloroethyl vinyl ether

Concen: 29.389 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

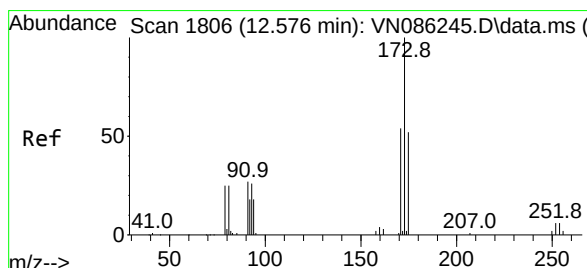
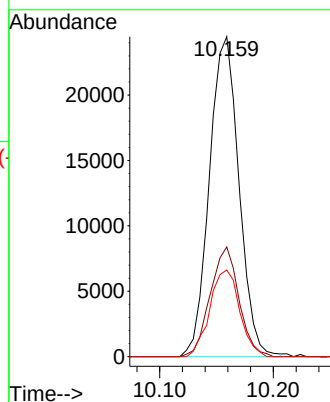
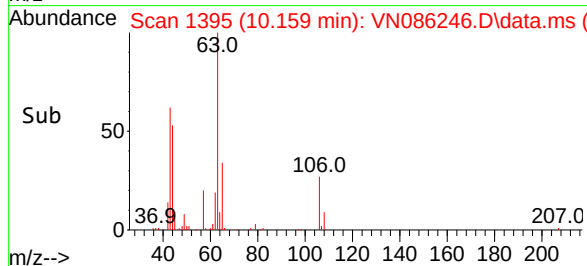
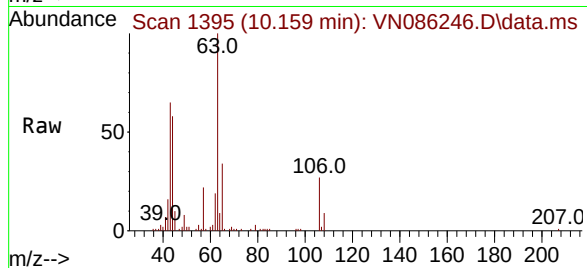
Tgt Ion:	63	Resp:	44228
Ion	Ratio	Lower	Upper
63	100		
65	33.2	25.8	38.8
106	27.4	21.8	32.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#56

Bromoform

Concen: 4.804 ug/l

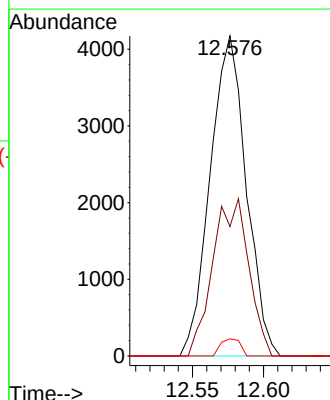
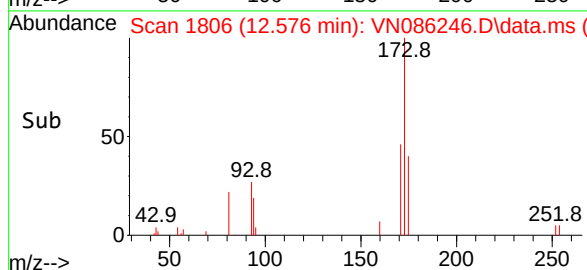
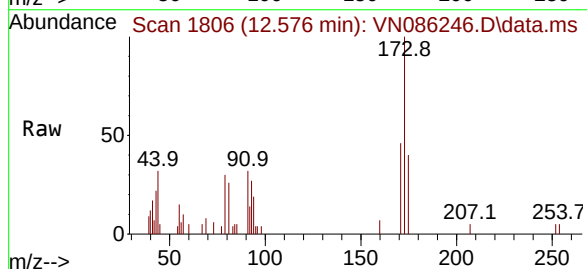
RT: 12.576 min Scan# 1806

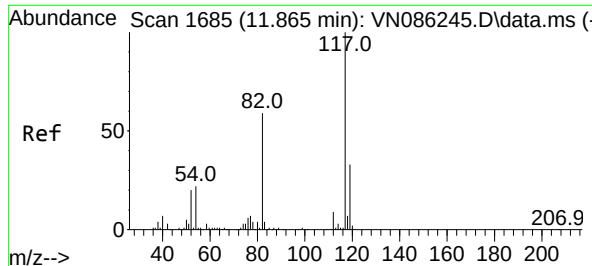
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

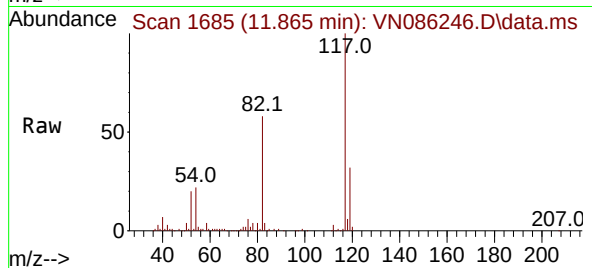
Tgt Ion:	173	Resp:	7367
Ion	Ratio	Lower	Upper
173	100		
175	48.9	38.2	57.4
254	2.9	4.5	6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

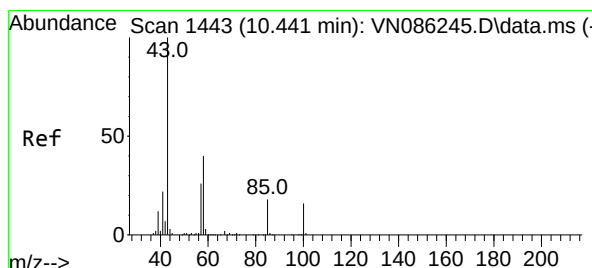
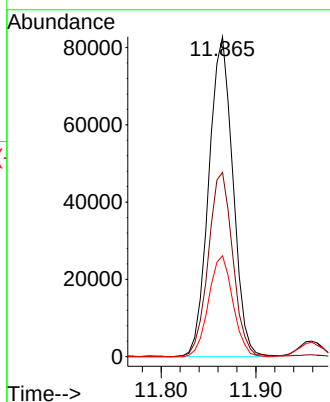
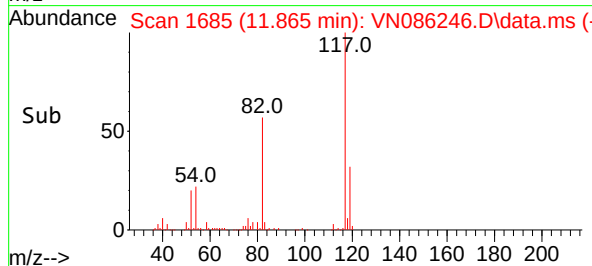
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 117 Resp: 14654
Ion Ratio Lower Upper
117 100
82 58.4 47.3 70.9
119 31.8 25.9 38.9

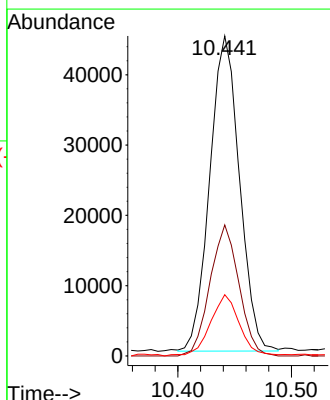
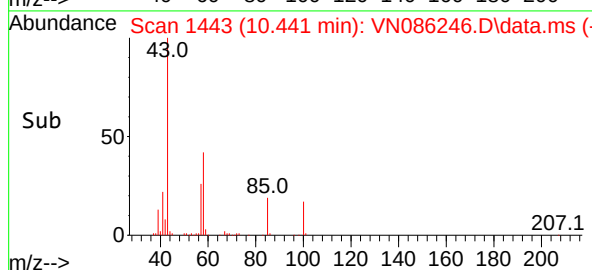
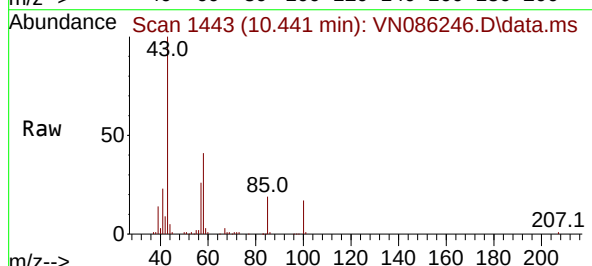
Manual Integrations
APPROVED

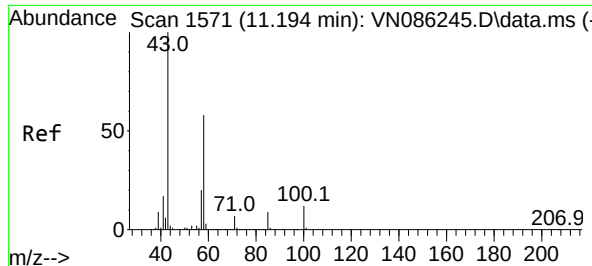
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#58
4-Methyl-2-Pentanone
Concen: 24.511 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

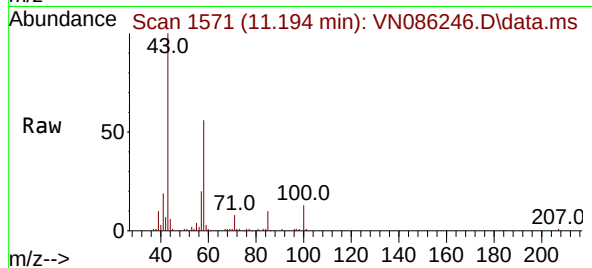
Tgt Ion: 43 Resp: 81510
Ion Ratio Lower Upper
43 100
58 40.4 32.5 48.7
85 18.8 14.4 21.6





#59
2-Hexanone
Concen: 24.465 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

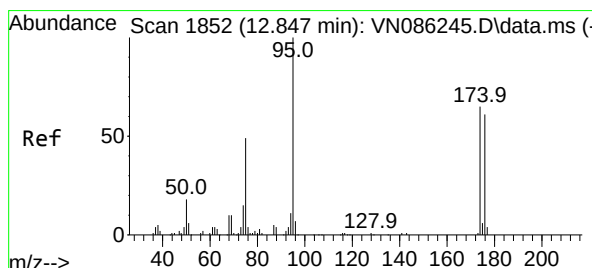
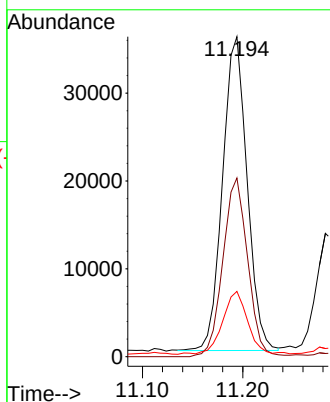
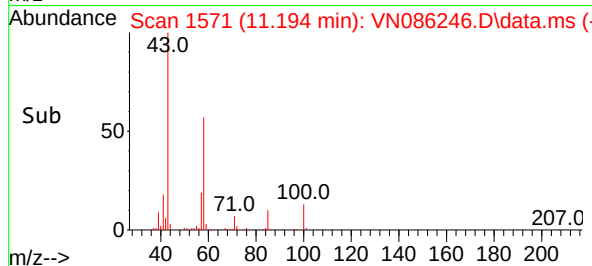
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion: 43 Resp: 60580
Ion Ratio Lower Upper
43 100
58 57.5 45.3 67.9
57 19.9 15.8 23.6

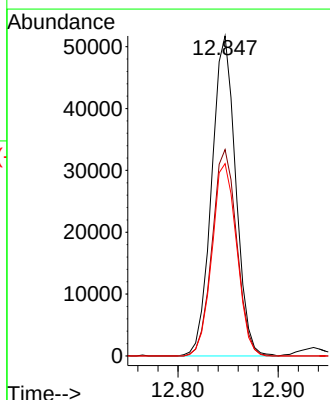
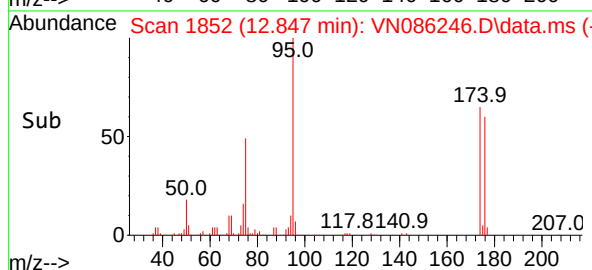
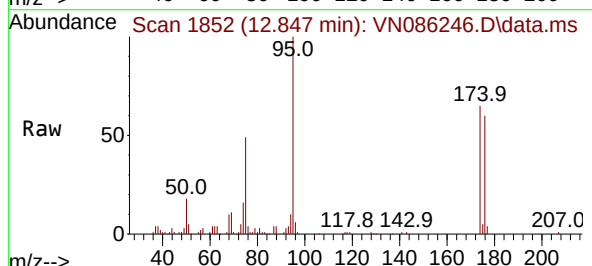
Manual Integrations
APPROVED

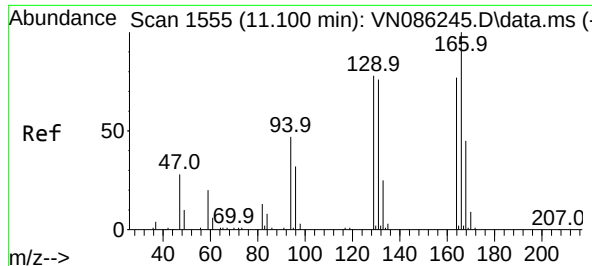
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#60
4-Bromofluorobenzene
Concen: 29.576 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

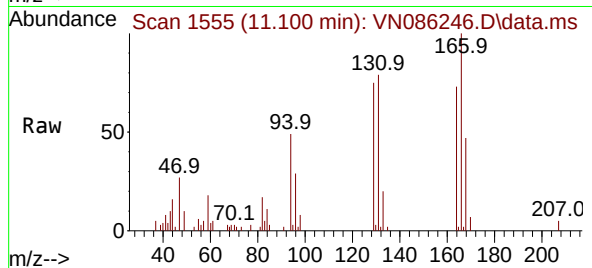
Tgt Ion: 95 Resp: 86291
Ion Ratio Lower Upper
95 100
174 66.1 52.7 79.1
176 61.8 49.8 74.8





#61
Tetrachloroethene
Concen: 4.683 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

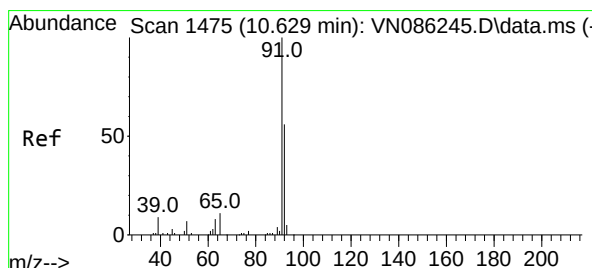
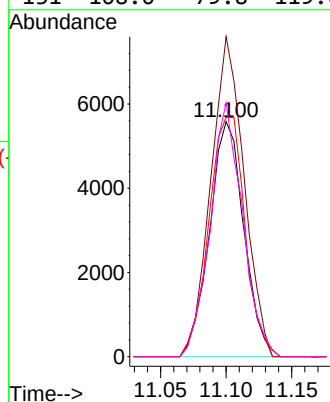
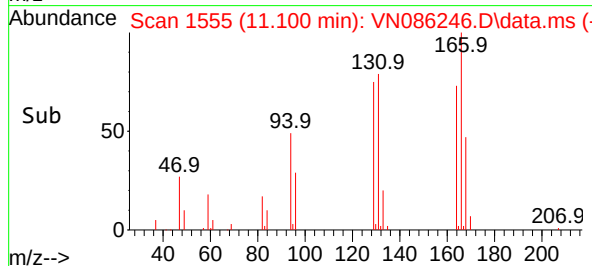
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:164 Resp: 10135
Ion Ratio Lower Upper
164 100
166 136.2 104.5 156.7
129 101.9 81.7 122.5
131 108.0 79.8 119.6

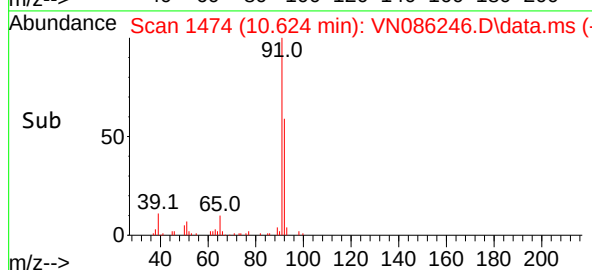
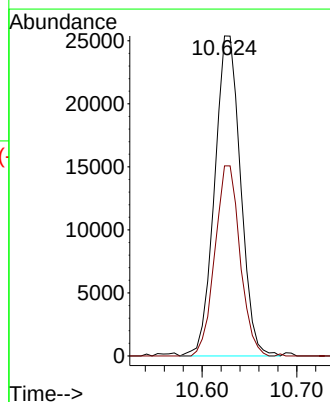
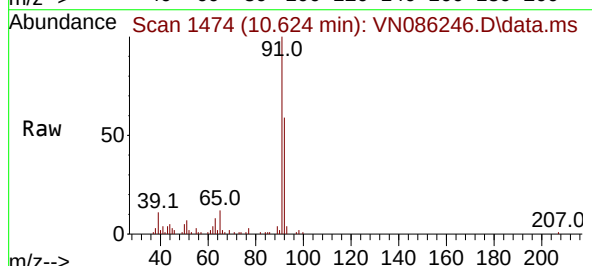
Manual Integrations
APPROVED

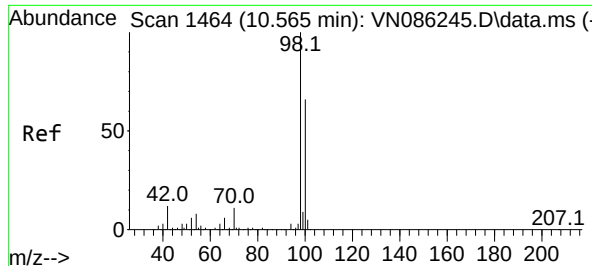
Reviewed By :John Carbone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 4.923 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

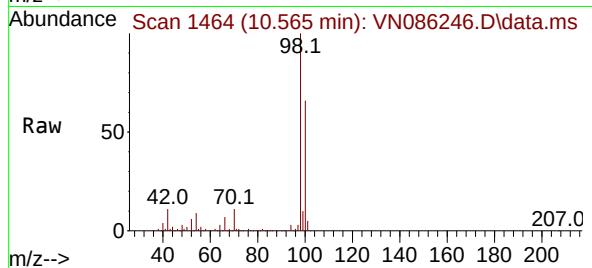
Tgt Ion: 91 Resp: 48384
Ion Ratio Lower Upper
91 100
92 57.5 46.8 70.2





#63
Toluene-d8
Concen: 30.283 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

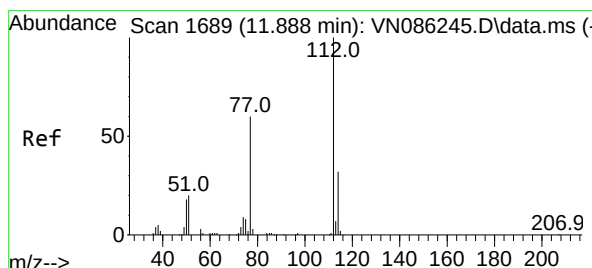
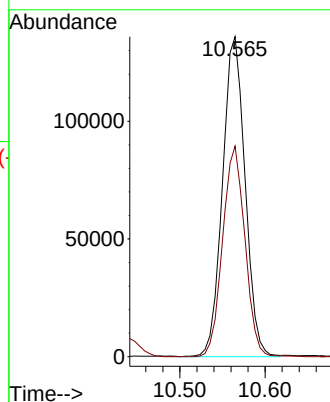
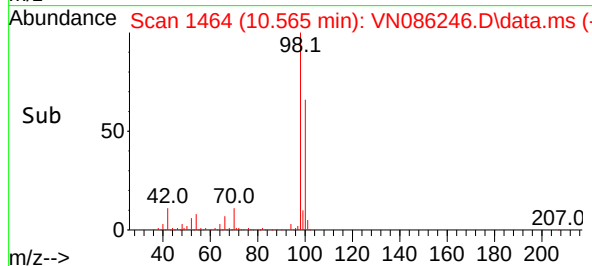
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion: 98 Resp: 25053
Ion Ratio Lower Upper
98 100
100 64.9 52.3 78.5

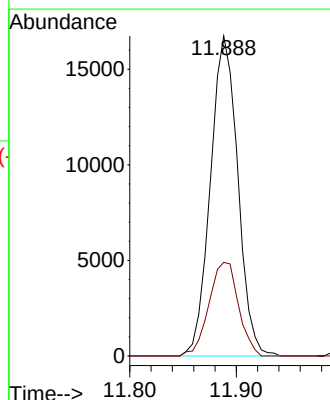
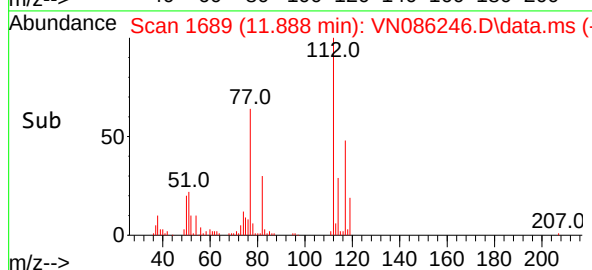
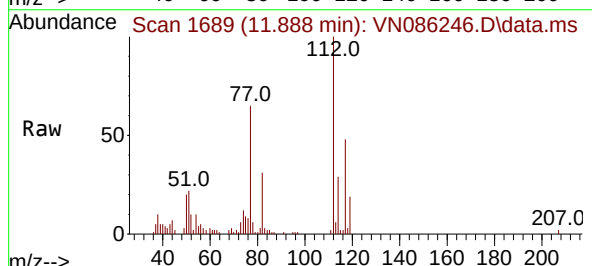
Manual Integrations
APPROVED

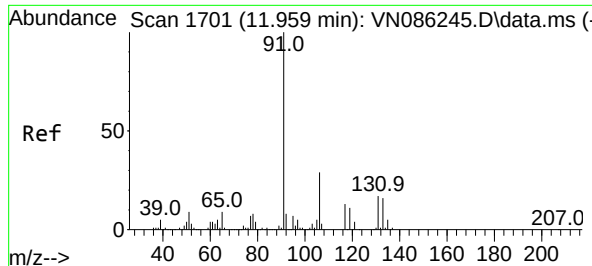
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 4.980 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:112 Resp: 29905
Ion Ratio Lower Upper
112 100
114 29.3 25.8 38.6





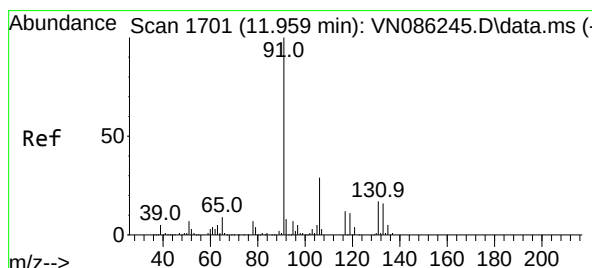
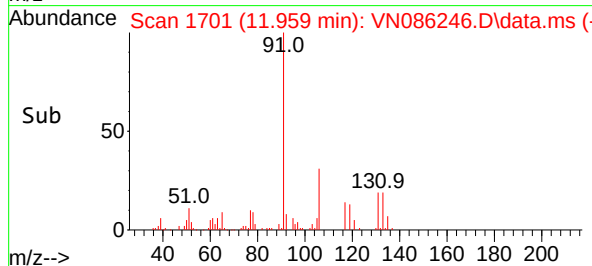
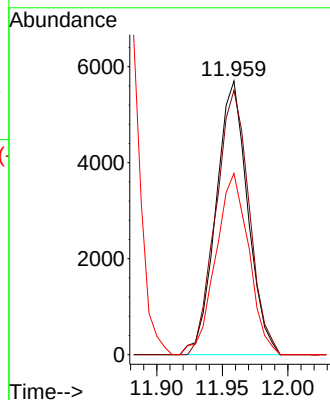
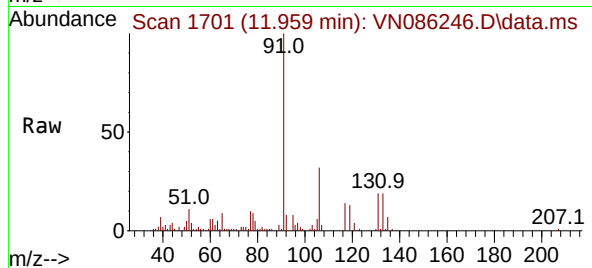
#65
1,1,1,2-Tetrachloroethane
Concen: 4.845 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
131	100		
133	100.9	0.0	190.4
119	69.0	0.0	135.6

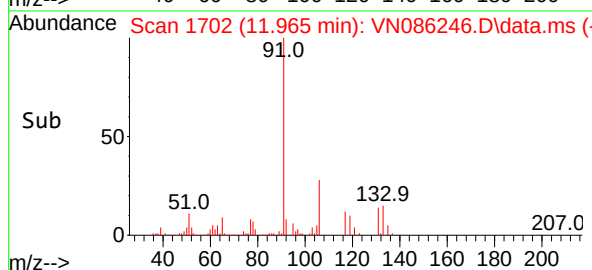
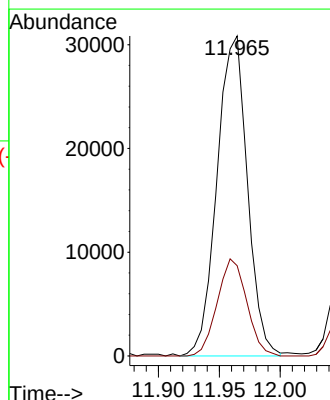
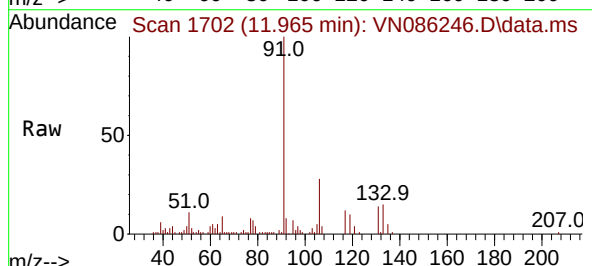
Manual Integrations
APPROVED

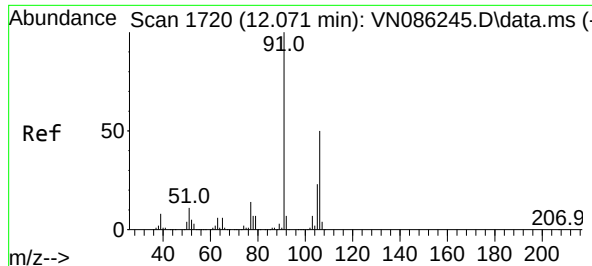
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#66
Ethyl Benzene
Concen: 4.912 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

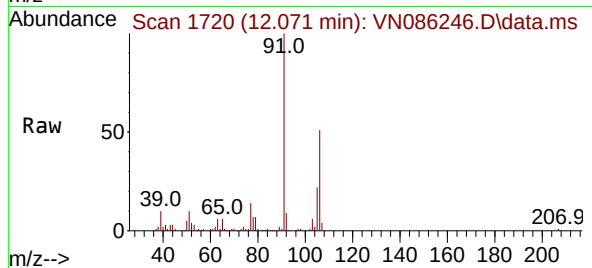
Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.2	23.4	35.0





#67
m/p-Xylenes
Concen: 9.597 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

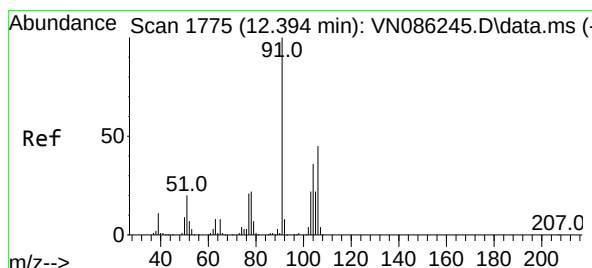
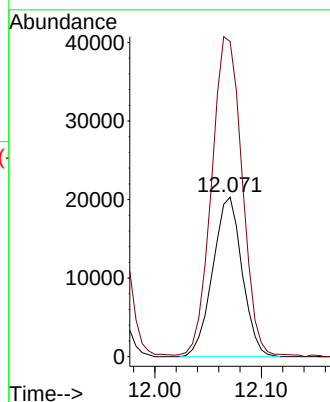
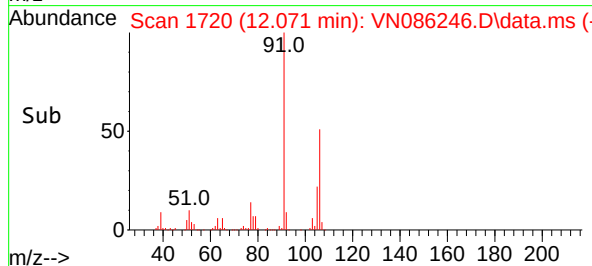
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



Tgt Ion:106 Resp: 3889
Ion Ratio Lower Upper
106 100
91 209.5 164.5 246.7

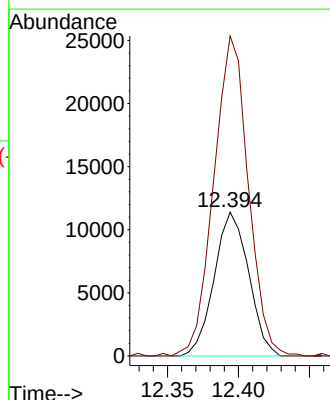
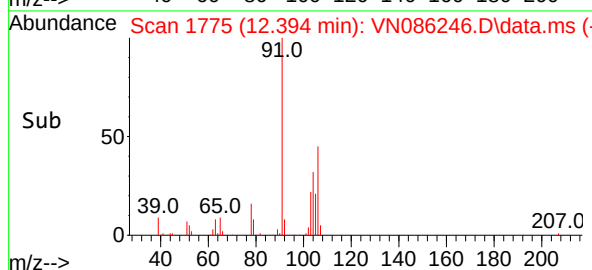
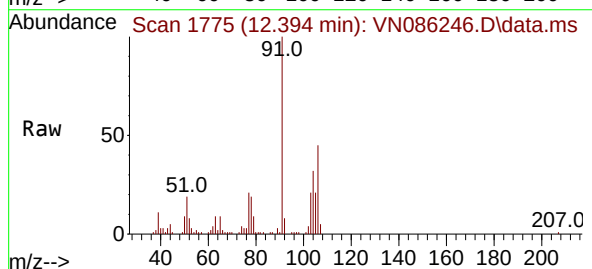
Manual Integrations
APPROVED

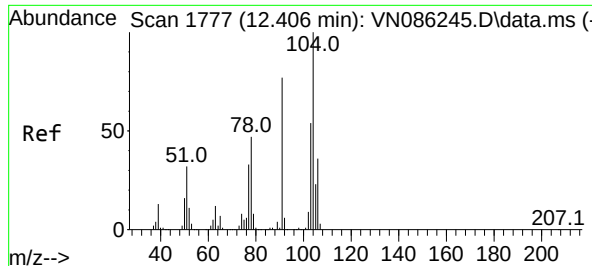
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
o-Xylene
Concen: 4.822 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:106 Resp: 19223
Ion Ratio Lower Upper
106 100
91 222.7 109.8 329.4





#69

Styrene

Concen: 4.846 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

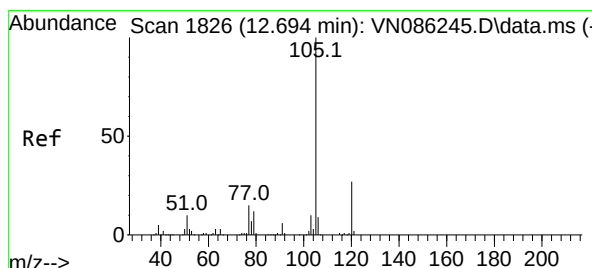
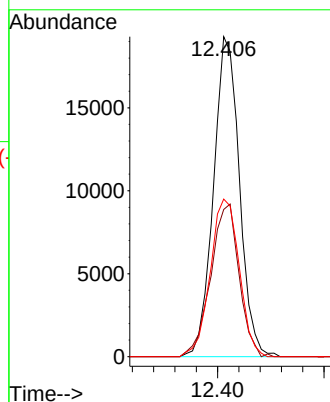
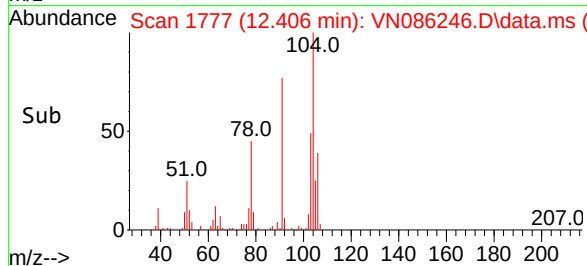
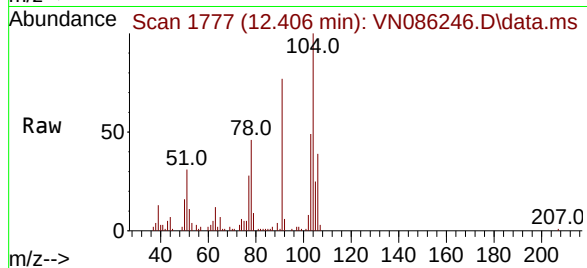
Tgt Ion:104	Resp:	3258
Ion Ratio	Lower	Upper
104	100	
78	51.8	41.4 62.0
103	54.8	44.2 66.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#70

Isopropylbenzene

Concen: 4.839 ug/l

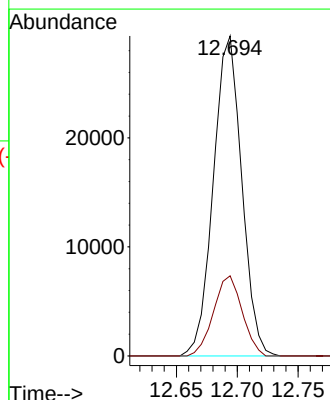
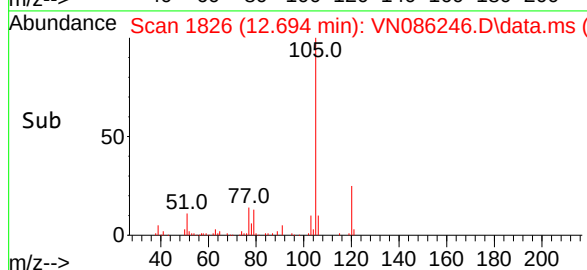
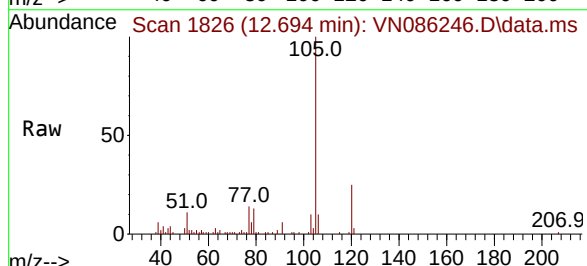
RT: 12.694 min Scan# 1826

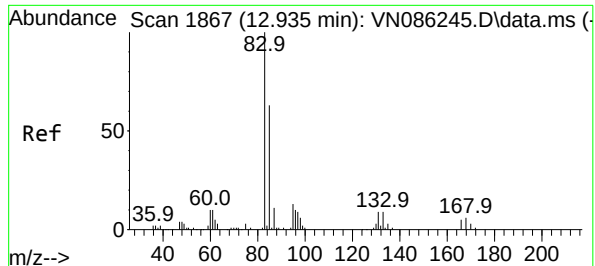
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:105	Resp:	47563
Ion Ratio	Lower	Upper
105	100	
120	25.3	18.3 34.1





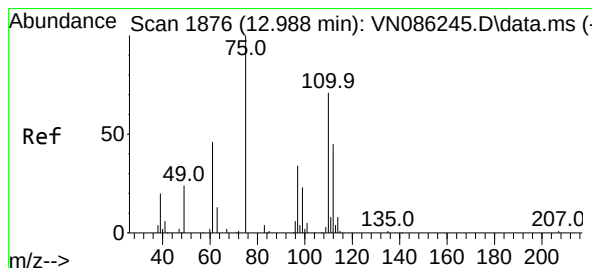
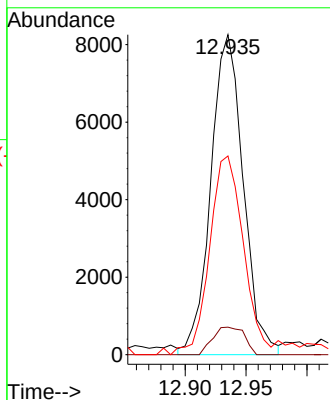
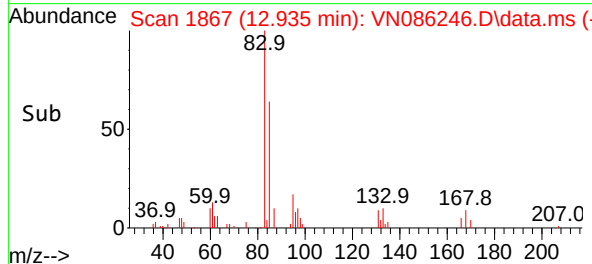
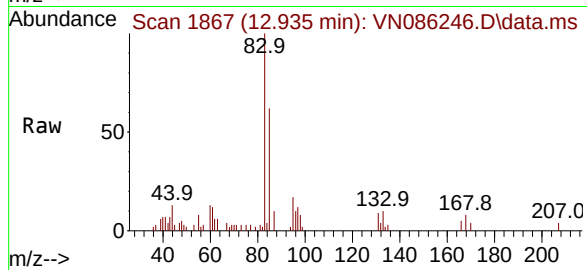
#71
1,1,2-Tetrachloroethane
Concen: 5.466 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	83	Resp:	1529
Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.8	14.3
85	58.9	32.3	96.8

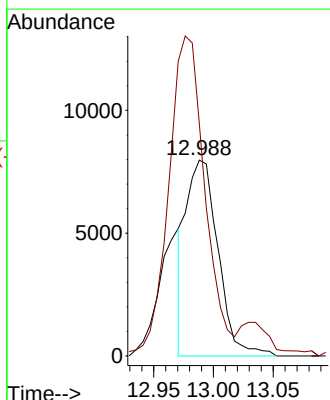
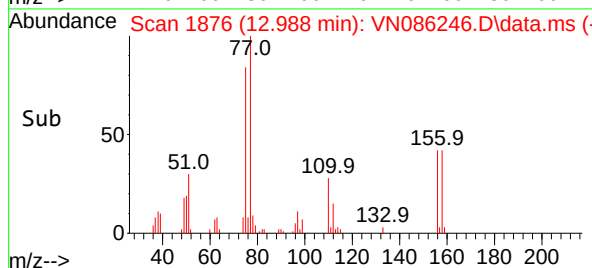
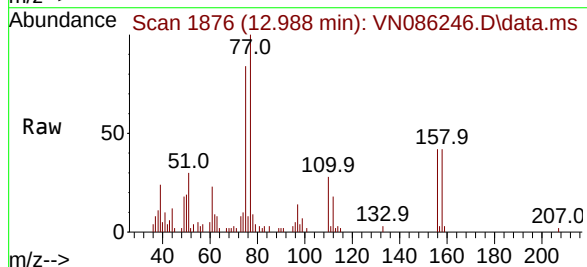
Manual Integrations
APPROVED

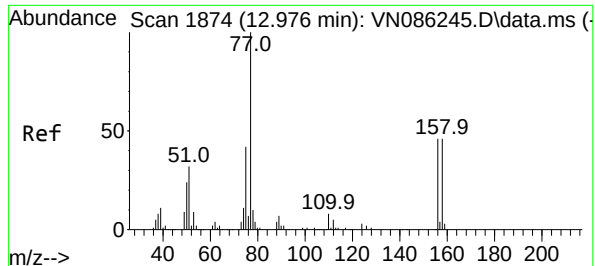
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#72
1,2,3-Trichloropropane
Concen: 3.739 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion	75	Resp:	14811
Ion	Ratio	Lower	Upper
75	100		
77	185.5	0.0	380.0





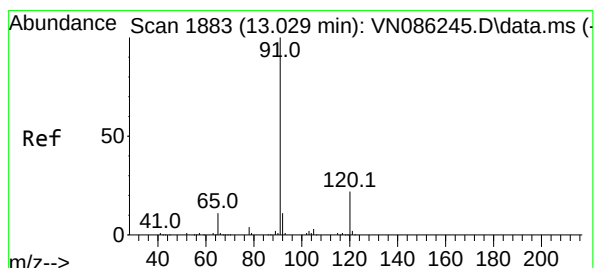
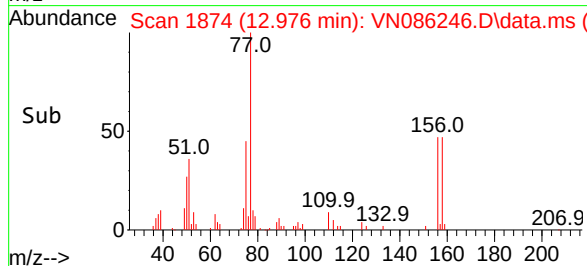
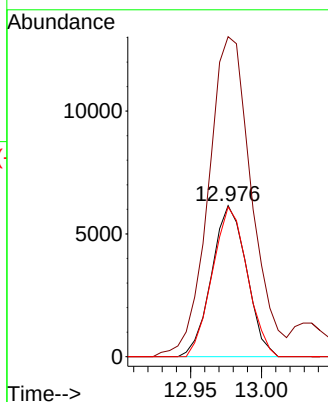
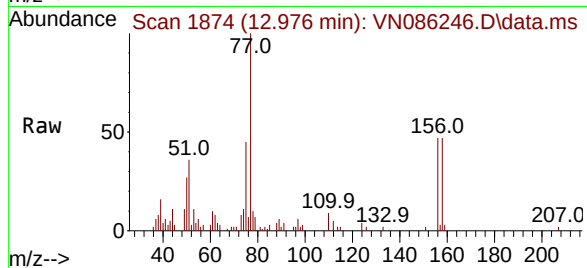
#73
Bromobenzene
Concen: 4.831 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:156 Resp: 1052
Ion Ratio Lower Upper
156 100
77 261.1 0.0 505.2
158 98.7 0.0 195.0

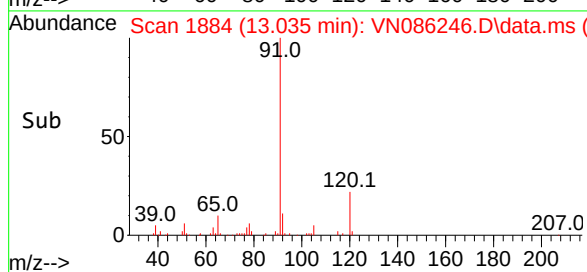
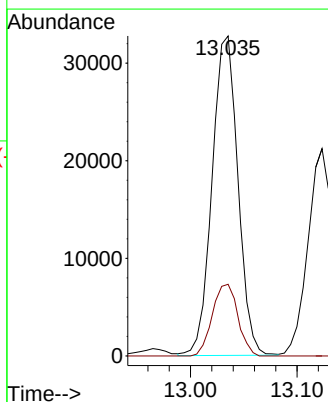
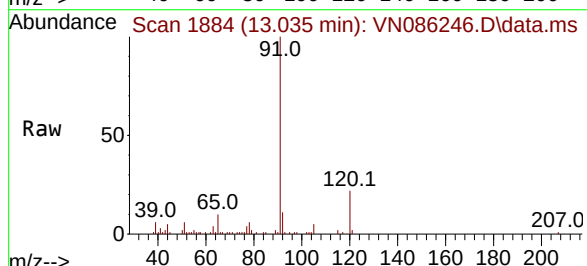
Manual Integrations
APPROVED

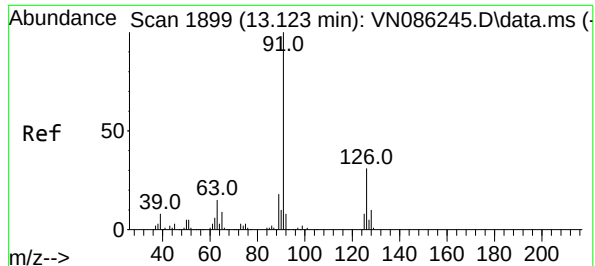
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#74
n-propylbenzene
Concen: 4.734 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion: 91 Resp: 55104
Ion Ratio Lower Upper
91 100
120 22.1 0.0 44.0





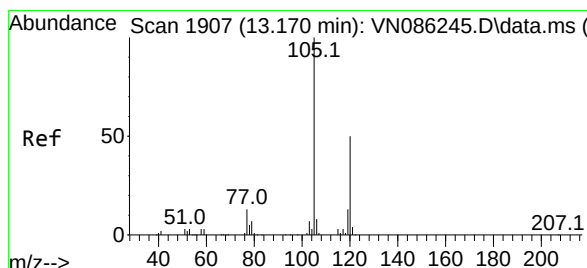
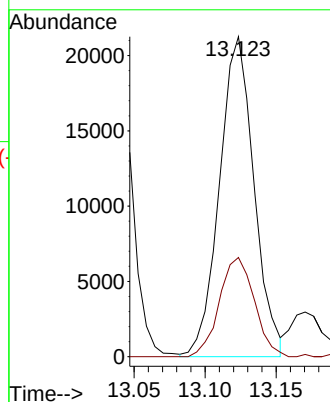
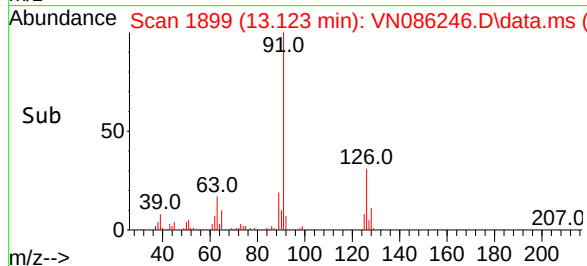
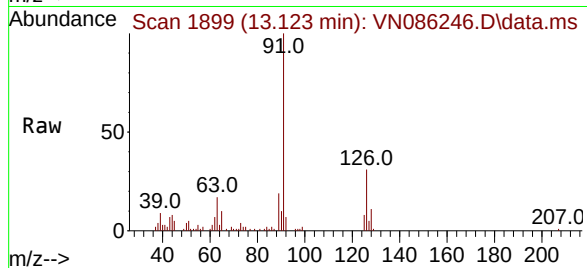
#75
2-Chlorotoluene
Concen: 4.929 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion: 91 Resp: 35960
Ion Ratio Lower Upper
91 100
126 31.3 0.0 63.4

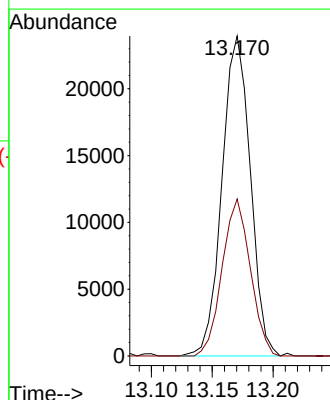
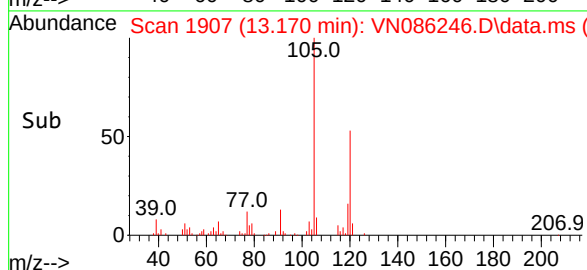
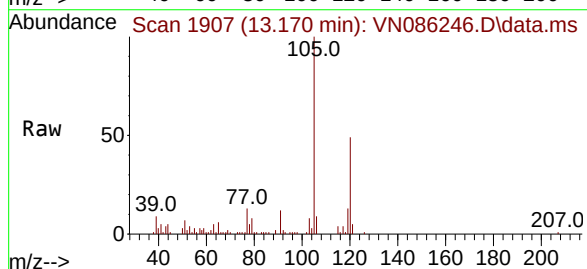
Manual Integrations
APPROVED

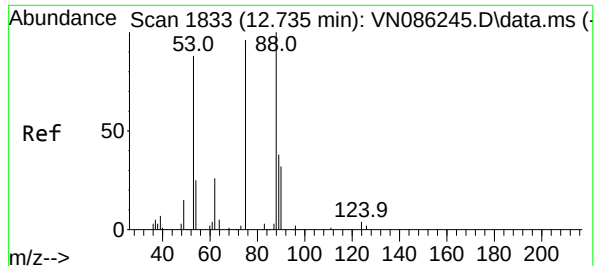
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 4.800 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:105 Resp: 38762
Ion Ratio Lower Upper
105 100
120 48.8 0.0 98.0





#77

t-1,4-Dichloro-2-butene

Concen: 4.845 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

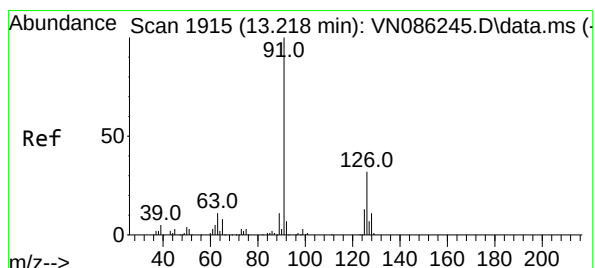
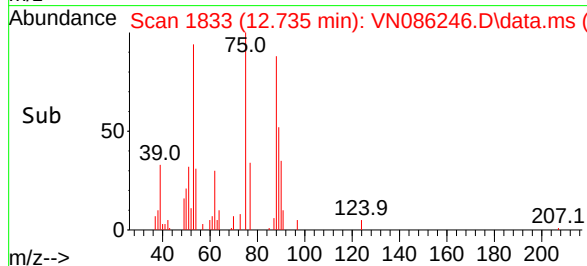
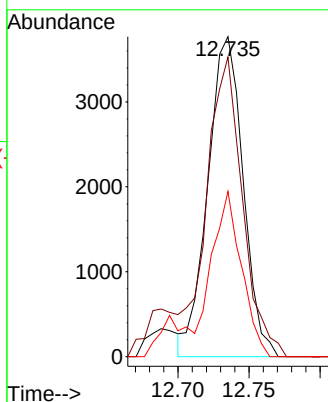
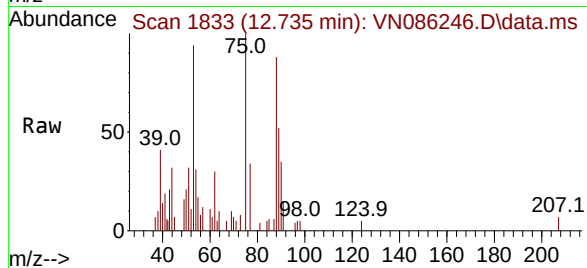
VSTDICC005

Tgt Ion:	75	Resp:	650
Ion	Ratio	Lower	Upper
75	100		
53	89.4	46.4	139.2
89	51.6	22.5	67.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#78

4-Chlorotoluene

Concen: 4.927 ug/l

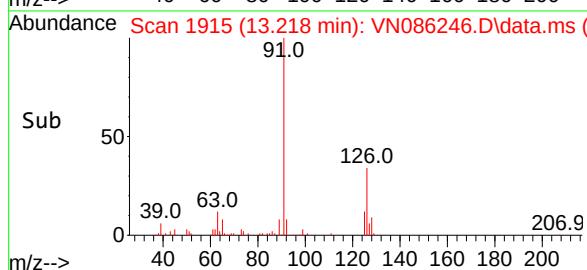
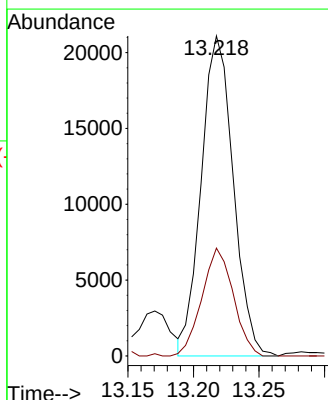
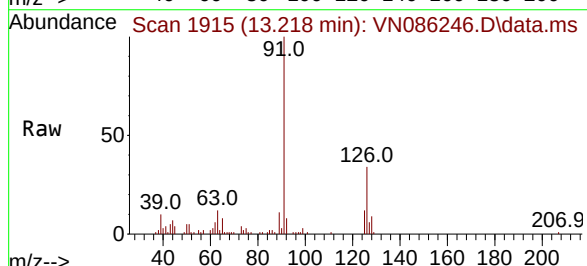
RT: 13.218 min Scan# 1915

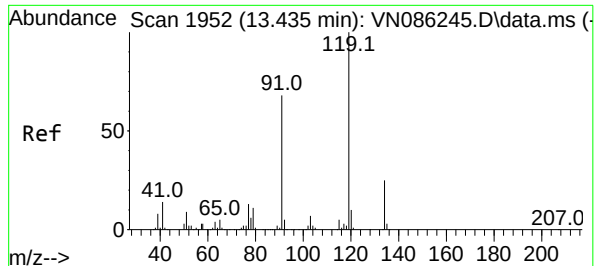
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	91	Resp:	35898
Ion	Ratio	Lower	Upper
91	100		
126	33.0	0.0	63.2





#79

tert-butylbenzene

Concen: 5.092 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

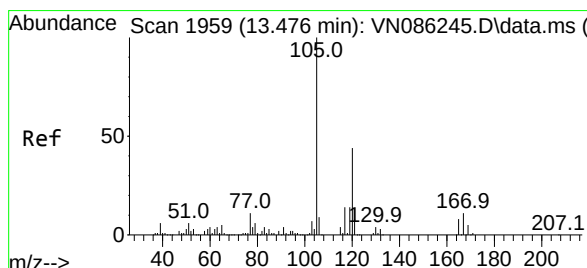
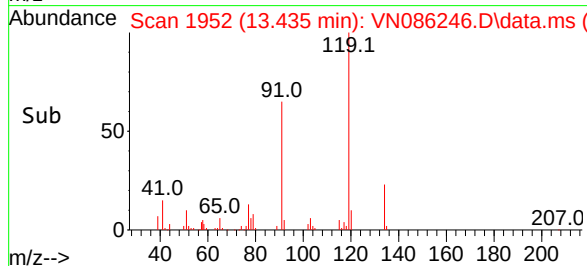
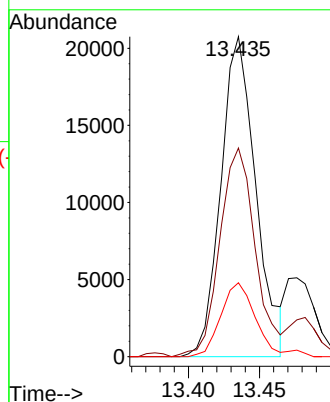
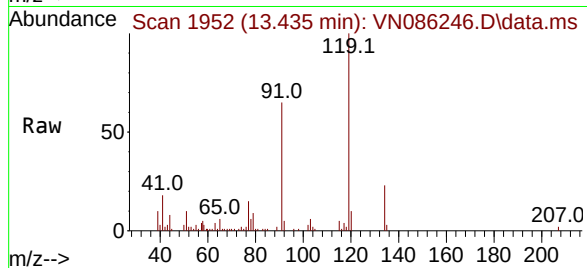
Tgt Ion:	119	Resp:	35578
Ion	Ratio	Lower	Upper
119	100		
91	66.0	0.0	136.6
134	22.4	0.0	49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#80

1,2,4-Trimethylbenzene

Concen: 4.730 ug/l

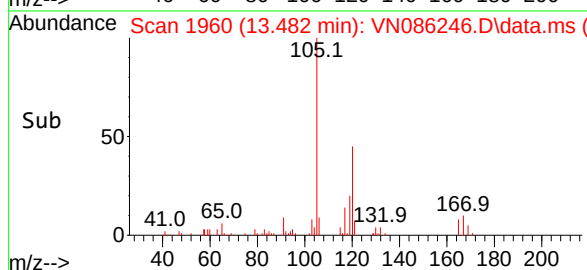
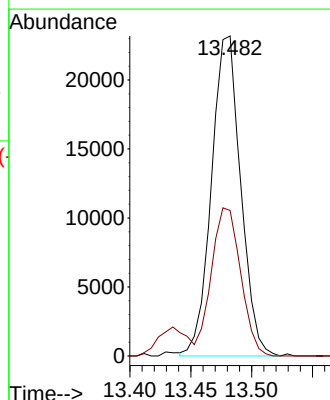
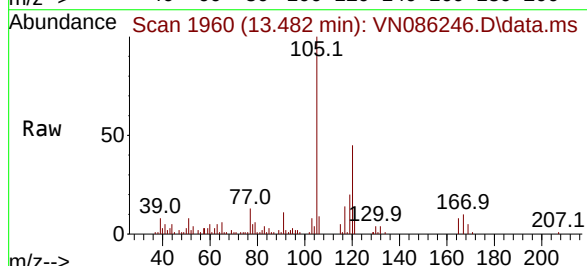
RT: 13.482 min Scan# 1960

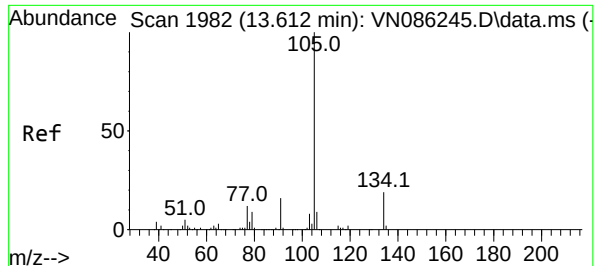
Delta R.T. 0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	105	Resp:	38730
Ion	Ratio	Lower	Upper
105	100		
120	46.3	0.0	91.0





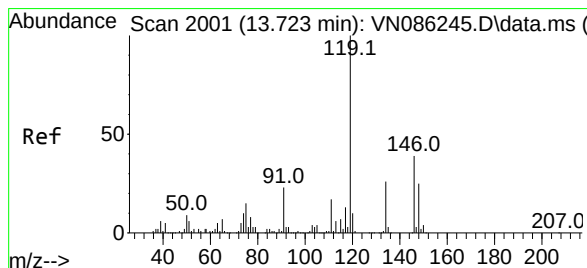
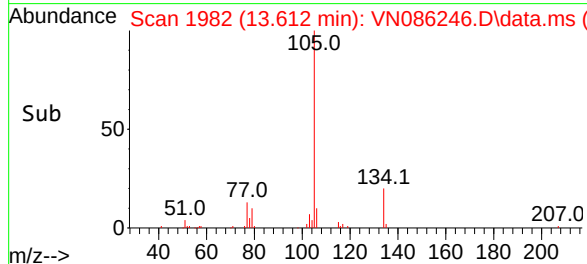
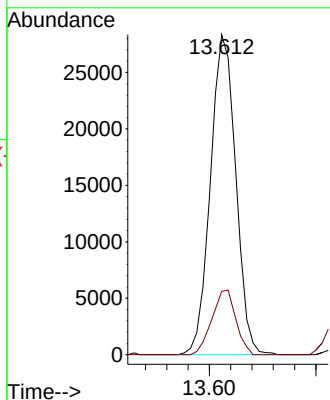
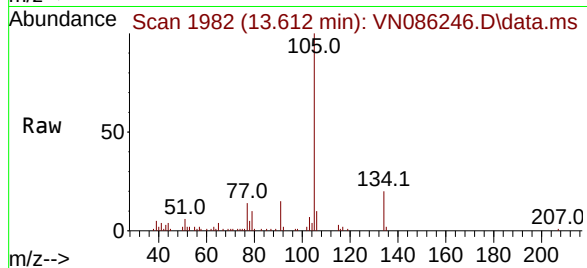
#81
sec-Butylbenzene
Concen: 4.798 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 4676
Ion Ratio Lower Upper
105 100
134 19.1 0.0 38.6

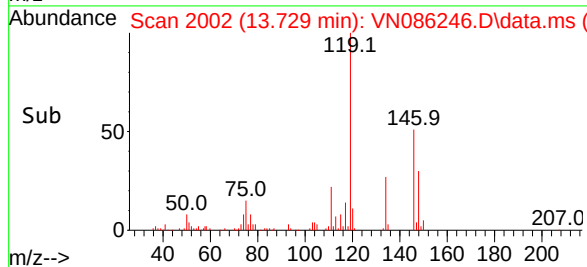
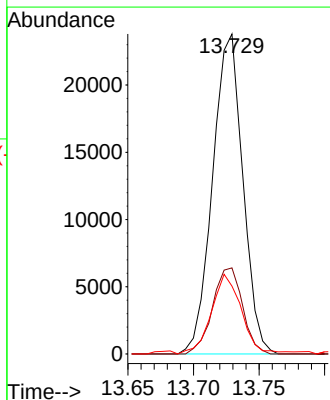
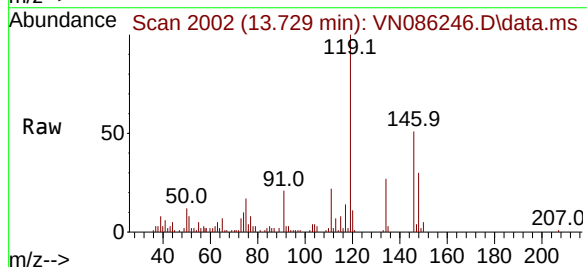
Manual Integrations
APPROVED

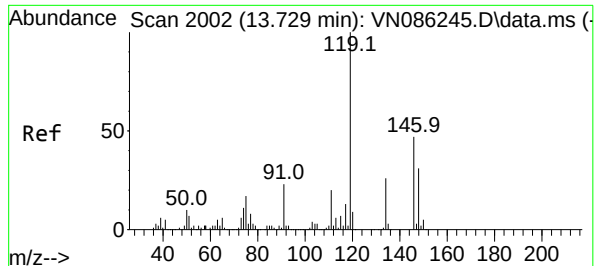
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#82
p-Isopropyltoluene
Concen: 4.692 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion:119 Resp: 38146
Ion Ratio Lower Upper
119 100
134 26.6 0.0 51.6
91 24.5 0.0 48.2





#83

1,3-Dichlorobenzene

Concen: 4.818 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:146 Resp: 1950

Ion Ratio Lower Upper

146 100

111 45.8 21.7 65.1

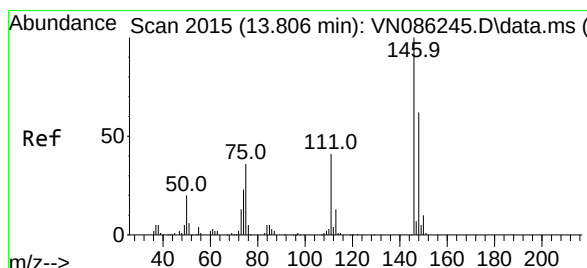
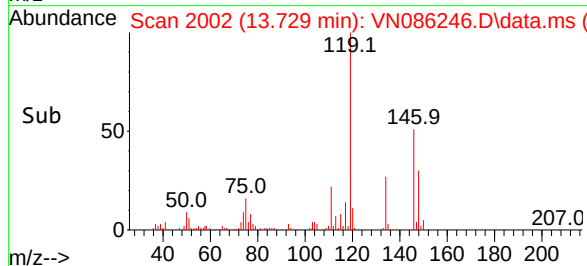
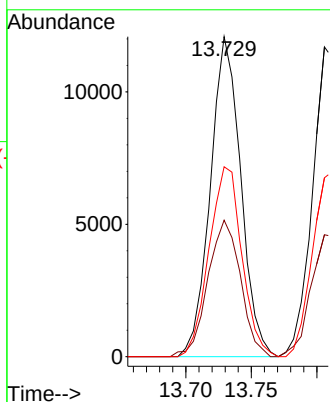
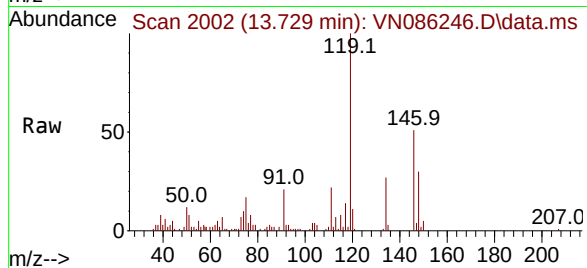
148 64.0 32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#84

1,4-Dichlorobenzene

Concen: 4.888 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

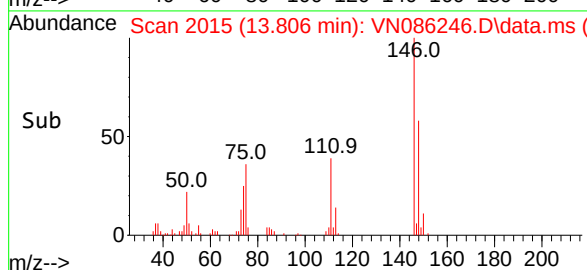
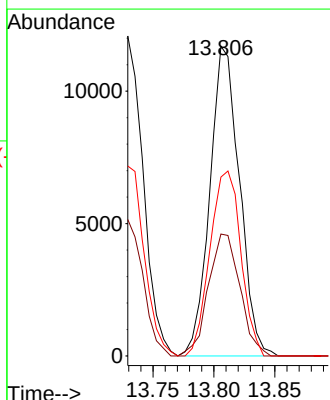
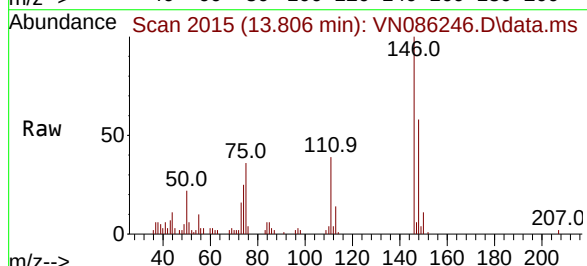
Tgt Ion:146 Resp: 19847

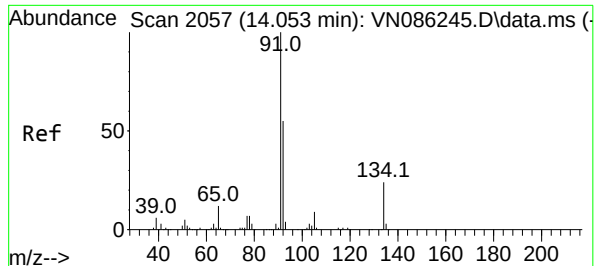
Ion Ratio Lower Upper

146 100

111 41.9 20.8 62.4

148 62.3 31.9 95.5





#85

n-Butylbenzene

Concen: 4.716 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

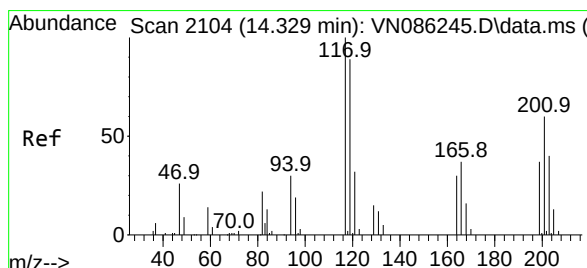
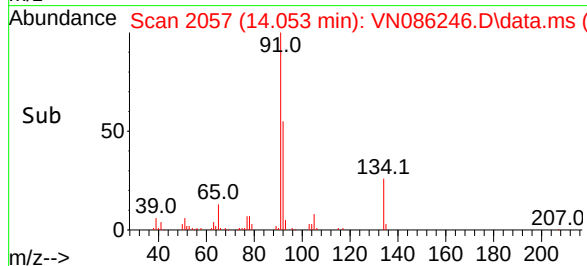
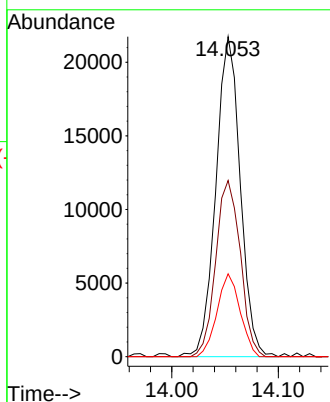
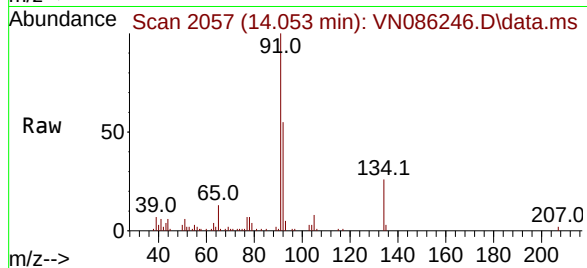
Tgt Ion:	91	Resp:	3459
Ion	Ratio	Lower	Upper
91	100		
92	55.3	0.0	109.4
134	24.5	0.0	48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#86

Hexachloroethane

Concen: 4.714 ug/l

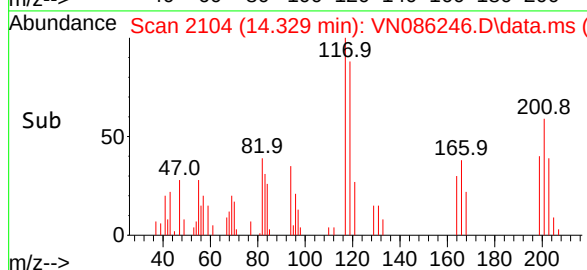
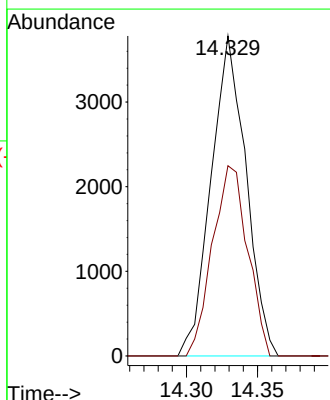
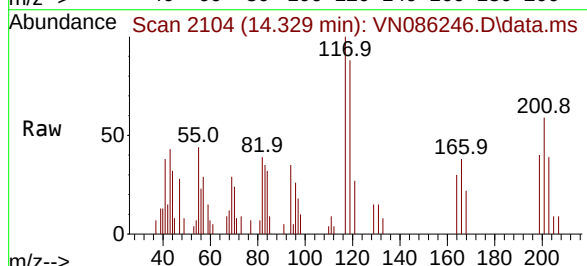
RT: 14.329 min Scan# 2104

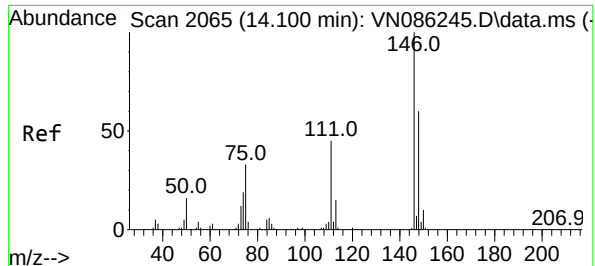
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	117	Resp:	6465
Ion	Ratio	Lower	Upper
117	100		
201	59.8	30.9	92.8





#87

1,2-Dichlorobenzene

Concen: 4.834 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

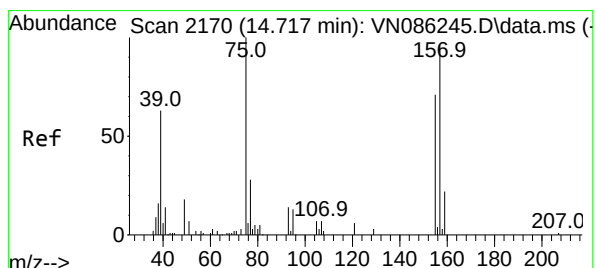
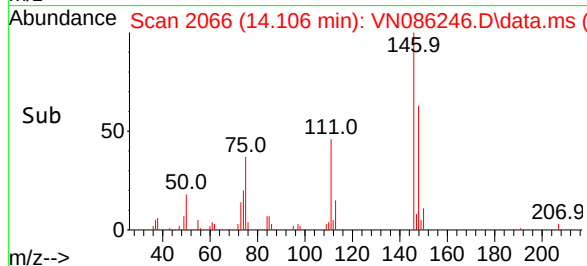
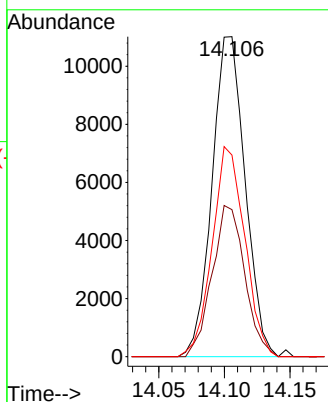
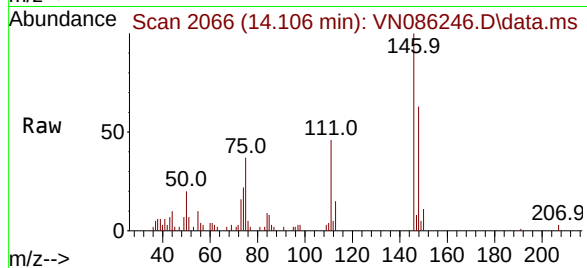
Tgt Ion:	146	Resp:	19310
Ion Ratio	Lower	Upper	
146	100		
111	46.7	22.7	68.0
148	64.6	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 4.946 ug/l

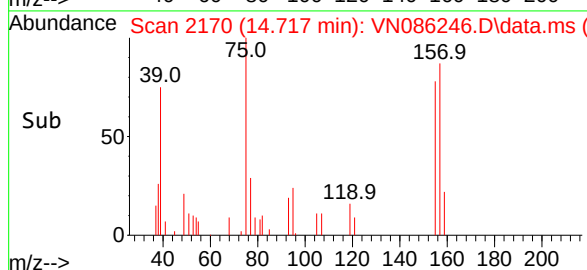
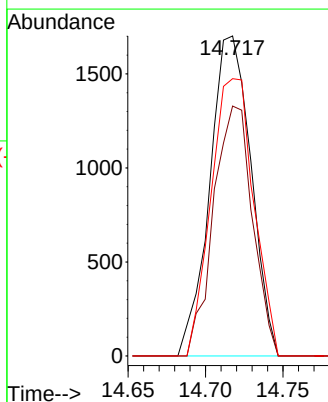
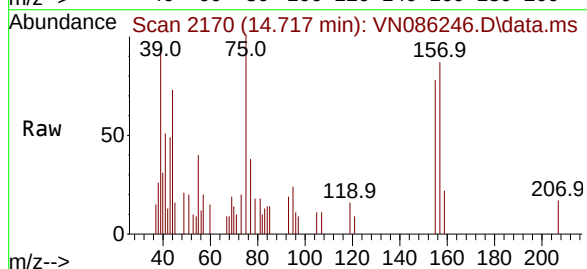
RT: 14.717 min Scan# 2170

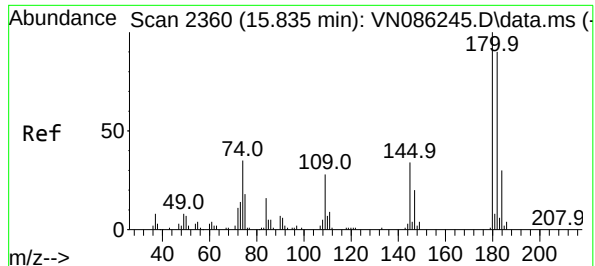
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	75	Resp:	3152
Ion Ratio	Lower	Upper	
75	100		
155	73.8	60.3	90.5
157	89.7	79.0	118.4





#89

1,2,4-Trichlorobenzene

Concen: 4.778 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Instrument :

MSVOA_N

ClientSampleId :

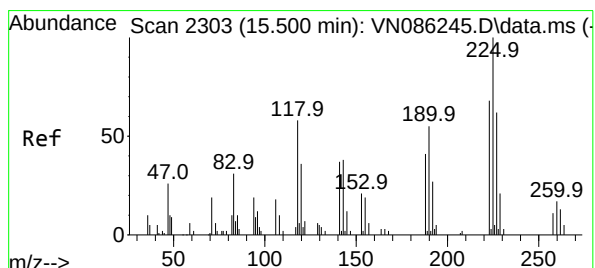
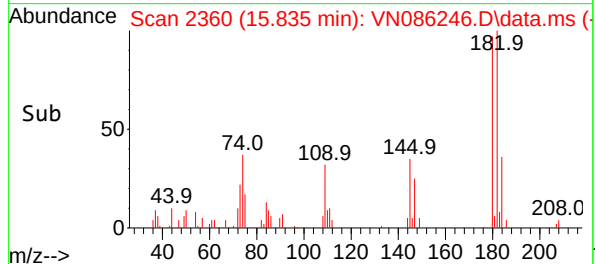
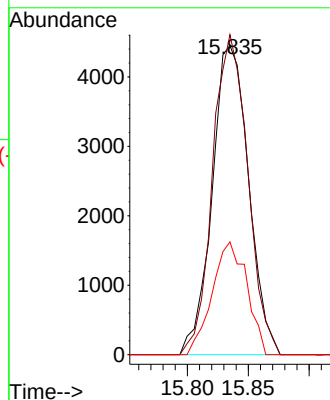
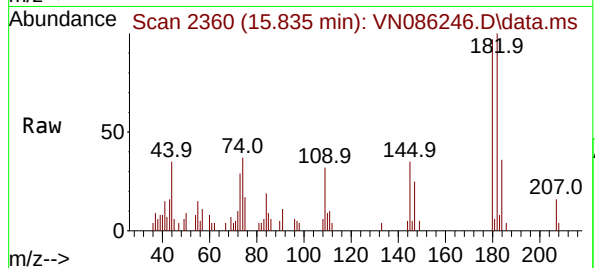
VSTDIC005

Tgt Ion:	180	Resp:	929
Ion Ratio	Lower	Upper	
180	100		
182	99.7	75.1	112.7
145	34.6	27.1	40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#90

Hexachlorobutadiene

Concen: 5.639 ug/l

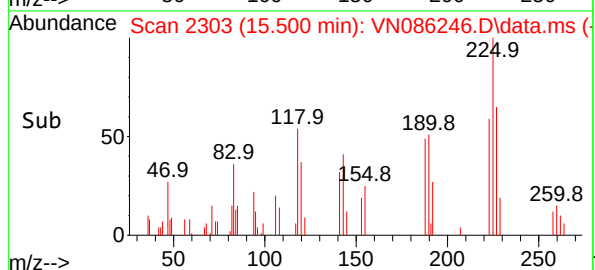
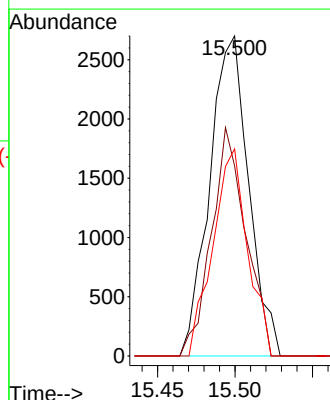
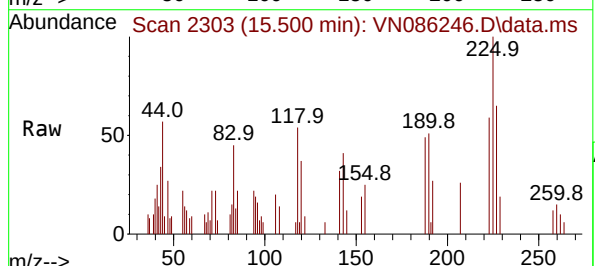
RT: 15.500 min Scan# 2303

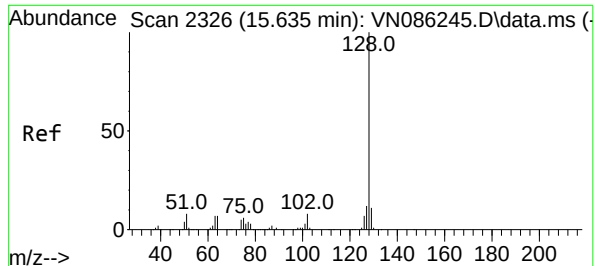
Delta R.T. -0.000 min

Lab File: VN086246.D

Acq: 11 Apr 2025 12:40

Tgt Ion:	225	Resp:	4734
Ion Ratio	Lower	Upper	
225	100		
223	62.9	0.0	130.0
227	57.5	0.0	123.2





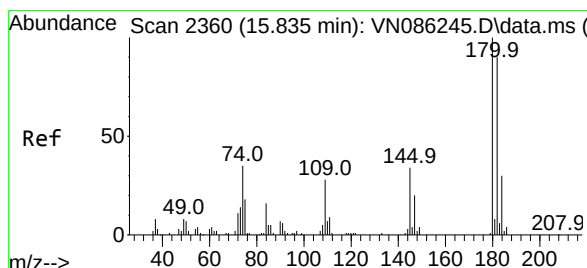
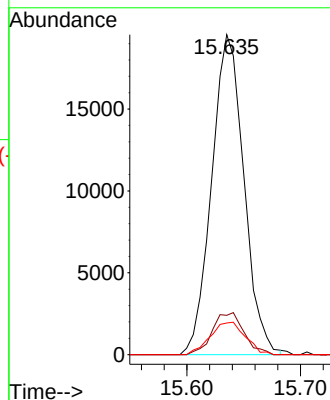
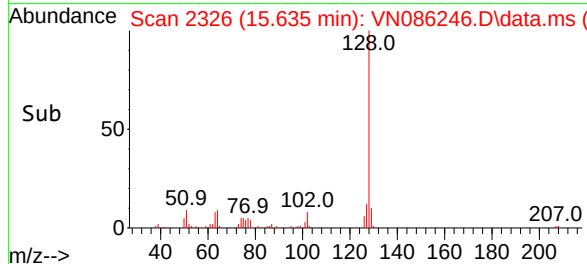
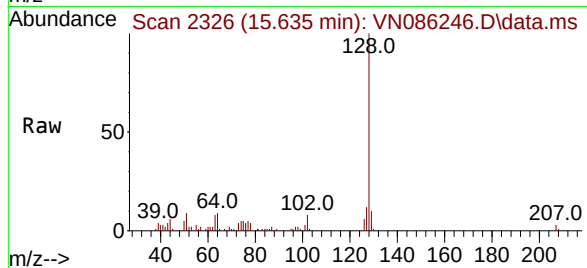
#91
Naphthalene
Concen: 5.026 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	11.1	8.8	13.2

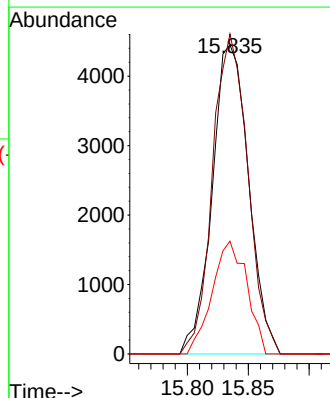
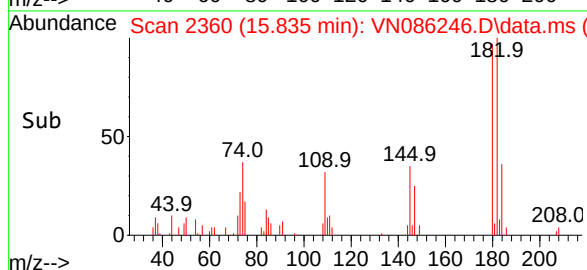
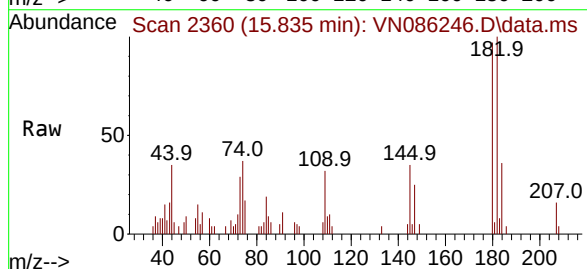
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#92
1,2,3-Trichlorobenzene
Concen: 4.778 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086246.D
Acq: 11 Apr 2025 12:40

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.7	0.0	187.8
145	34.6	0.0	67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	31045	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	187987	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	165721	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	90166	29.777	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.267%		
60) 4-Bromofluorobenzene	12.847	95	97275	29.482	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.267%		
63) Toluene-d8	10.565	98	279650	29.890	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.633%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	53635	21.563	ug/l	100
3) Chloromethane	2.359	50	69535	20.226	ug/l	100
4) Vinyl Chloride	2.518	62	66222	20.223	ug/l	99
5) Bromomethane	2.965	94	32967	20.183	ug/l	98
6) Chloroethane	3.124	64	42684	20.642	ug/l	99
7) Trichlorofluoromethane	3.501	101	72724	20.473	ug/l	99
8) Diethyl Ether	3.959	74	33215	20.276	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	43944	20.062	ug/l	99
10) 1,1-Dichloroethene	4.348	96	47582	20.128	ug/l	99
11) Methyl Iodide	4.589	142	54740	20.148	ug/l	97
12) Methyl Acetate	5.024	43	64185	19.227	ug/l	98
13) Acrolein	4.177	56	33914	89.375	ug/l	98
14) Acrylonitrile	5.718	53	135274	95.988	ug/l	97
15) Acetone	4.424	58	33542	93.868	ug/l	92
16) Carbon Disulfide	4.712	76	138661	20.456	ug/l	100
17) Allyl chloride	5.024	41	85704	20.801	ug/l	98
18) Methylene Chloride	5.277	84	54353	20.166	ug/l	99
19) trans-1,2-Dichloroethene	5.789	96	48899	19.638	ug/l	96
20) Diisopropyl ether	6.665	45	183254	20.688	ug/l	99
21) 1,1-Dichloroethane	6.565	63	97247	20.578	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	59840	20.174	ug/l	98
23) tert-Butyl Alcohol	5.512	59	56480	96.723	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	172426	20.211	ug/l	98
25) Chloroform	7.965	83	93183	20.677	ug/l	100
26) Cyclohexane	8.253	56	88041	19.913	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	68608	20.373	ug/l	99
30) 2-Butanone	7.483	43	184728	98.995	ug/l	99
31) 2,2-Dichloropropane	7.489	77	87512	21.111	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	77645	20.044	ug/l	100
33) Carbon Tetrachloride	8.359	117	63029	20.360	ug/l	99
34) Benzene	8.600	78	219862	20.522	ug/l #	95
35) Methacrylonitrile	7.777	41	41577	19.764	ug/l	99
36) 1,2-Dichloroethane	8.671	62	68362	20.391	ug/l	100
37) Trichloroethene	9.353	130	51292	19.842	ug/l	94
38) Methylcyclohexane	9.594	83	83168	20.137	ug/l	98
39) 1,2-Dichloropropane	9.618	63	55116	20.675	ug/l	97
40) Dibromomethane	9.706	93	33887	19.681	ug/l	98
41) Bromodichloromethane	9.882	83	75048	20.289	ug/l	99
42) Vinyl Acetate	6.600	43	657878	103.572	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	75482	20.054	ug/l	98
44) Isopropyl Acetate	8.683	43	141640	20.285	ug/l	99
45) 1,4-Dioxane	9.694	88	20541	369.952	ug/l #	92
46) Methyl methacrylate	9.677	41	61396	19.956	ug/l	97
47) n-amyl Acetate	12.488	43	108446	19.589	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	84428	20.190	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	91089	20.581	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	47672	19.741	ug/l	97
51) Ethyl methacrylate	10.871	69	90916	20.259	ug/l	95
52) 1,3-Dichloropropane	11.159	76	87015	20.216	ug/l	100
53) Dibromochloromethane	11.359	129	52628	19.923	ug/l	97
54) 1,2-Dibromoethane	11.471	107	48175	19.762	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	225521	132.990	ug/l	100
56) Bromoform	12.576	173	33456	19.359	ug/l	97
58) 4-Methyl-2-Pentanone	10.441	43	381072	101.329	ug/l	100
59) 2-Hexanone	11.194	43	284098	101.451	ug/l	99
61) Tetrachloroethene	11.100	164	49360	20.169	ug/l	96
62) Toluene	10.630	91	228625	20.568	ug/l	100
64) Chlorobenzene	11.888	112	138700	20.424	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	46048	20.546	ug/l	99
66) Ethyl Benzene	11.959	91	250686	20.336	ug/l	98
67) m/p-Xylenes	12.065	106	186247	40.633	ug/l	100
68) o-Xylene	12.394	106	92550	20.528	ug/l	98
69) Styrene	12.406	104	154208	20.281	ug/l	99
70) Isopropylbenzene	12.694	105	225389	20.275	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	64915	20.516	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	64339m	19.534	ug/l	
73) Bromobenzene	12.976	156	48932	19.870	ug/l	99
74) n-propylbenzene	13.035	91	265507	20.227	ug/l	100
75) 2-Chlorotoluene	13.123	91	164538	19.943	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	185869	20.354	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	29750	19.590	ug/l	93
78) 4-Chlorotoluene	13.218	91	160908	19.528	ug/l	99
79) tert-butylbenzene	13.435	119	158200	20.021	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	185022	19.981	ug/l	99
81) sec-Butylbenzene	13.612	105	222043	20.145	ug/l	99
82) p-Isopropyltoluene	13.729	119	183515	19.959	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	87179	19.047	ug/l	99
84) 1,4-Dichlorobenzene	13.806	146	86888	18.923	ug/l	99
85) n-Butylbenzene	14.053	91	164471	19.828	ug/l	99
86) Hexachloroethane	14.329	117	29849	19.245	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	84631	18.727	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	13051	18.109	ug/l	96
89) 1,2,4-Trichlorobenzene	15.841	180	41396	18.826	ug/l	98
90) Hexachlorobutadiene	15.494	225	16389	17.262	ug/l	99
91) Naphthalene	15.635	128	157404	18.155	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	41396	18.826	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Manual Integrations

APPROVED

Reviewed By : John Carlone 04/14/2025

Supervised By : Mahesh Dadoda 04/14/2025

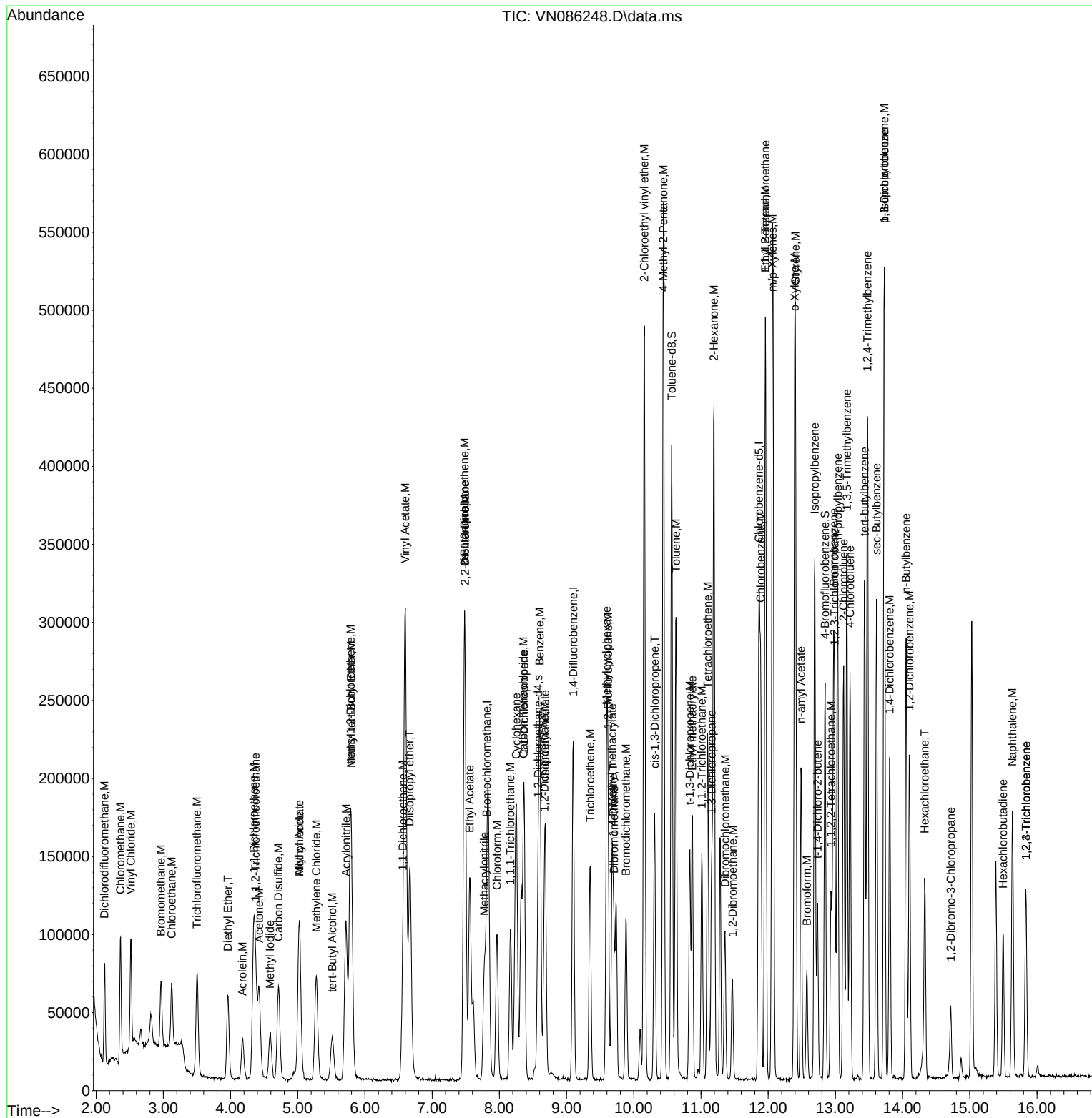
Quant Time: Apr 12 01:24:15 2025

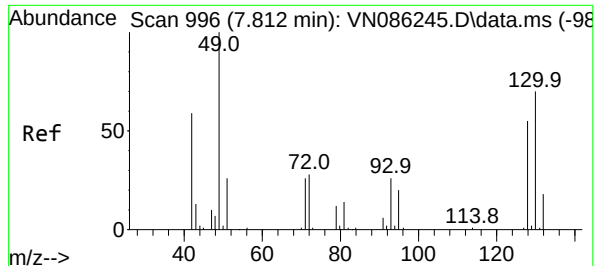
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Sat Apr 12 01:21:52 2025

Response via : Initial Calibration





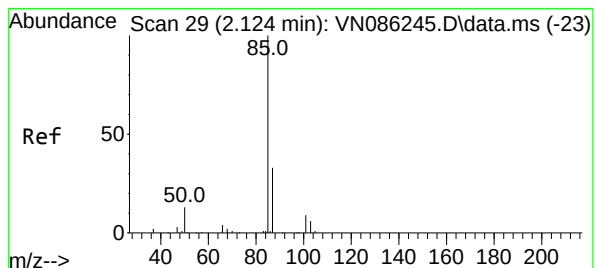
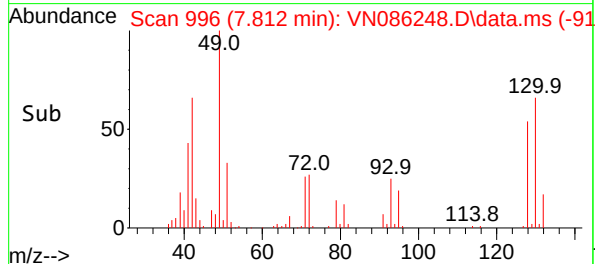
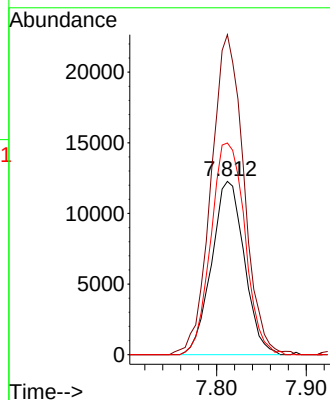
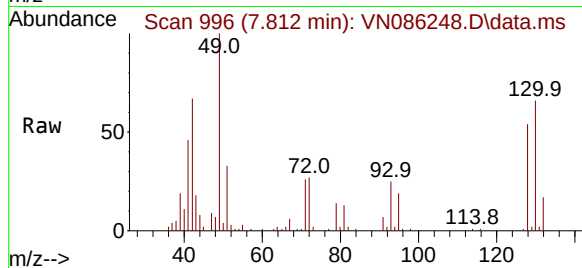
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion:128 Resp: 31045
Ion Ratio Lower Upper
128 100
49 184.6 0.0 452.5
130 126.9 0.0 315.0

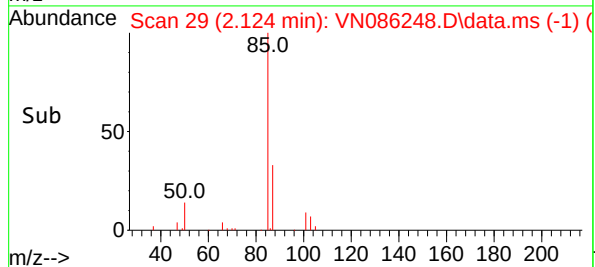
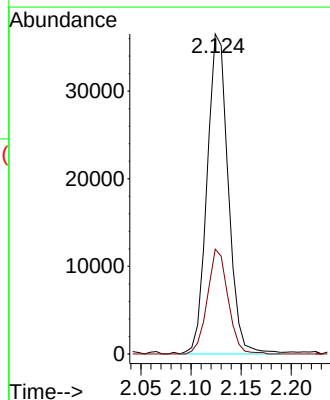
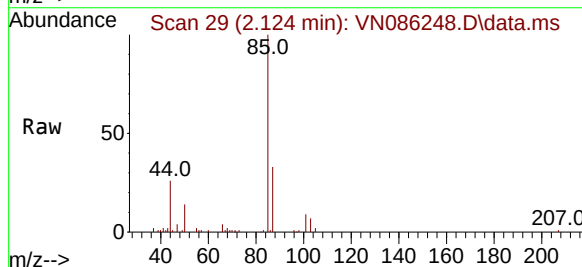
Manual Integrations
APPROVED

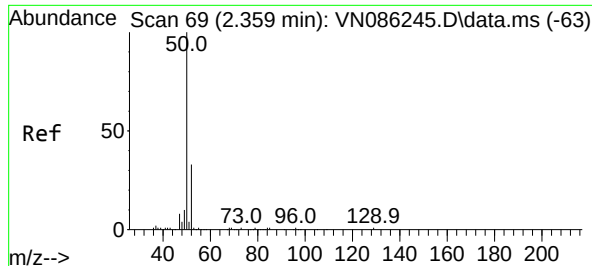
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#2
Dichlorodifluoromethane
Concen: 21.563 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 85 Resp: 53635
Ion Ratio Lower Upper
85 100
87 32.7 16.3 48.9





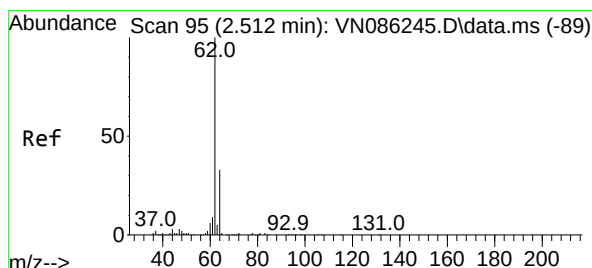
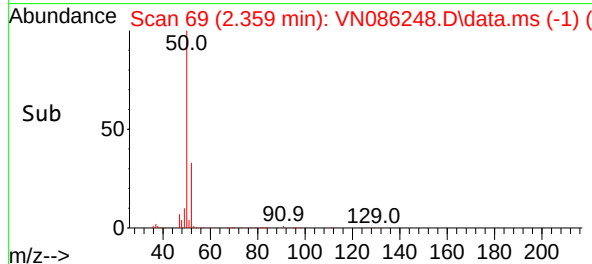
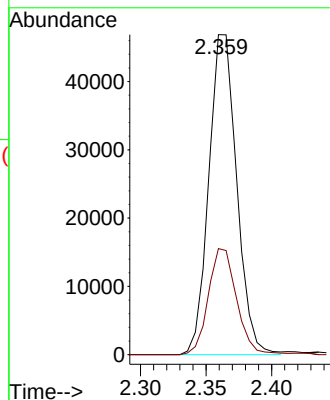
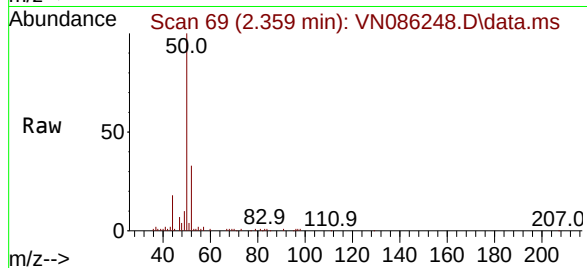
#3
Chloromethane
Concen: 20.226 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion: 50 Resp: 6953
Ion Ratio Lower Upper
50 100
52 33.2 26.4 39.6

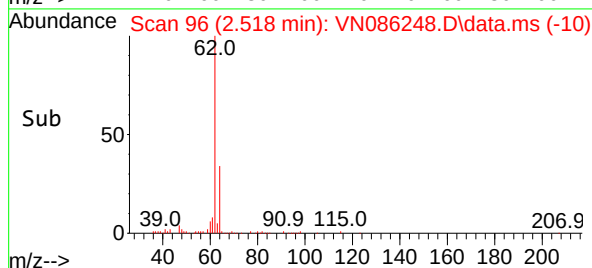
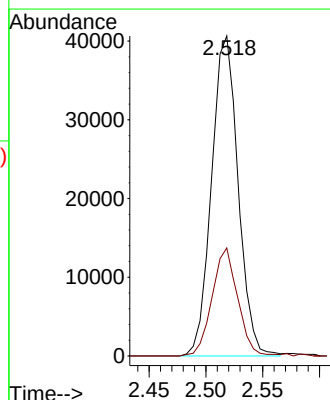
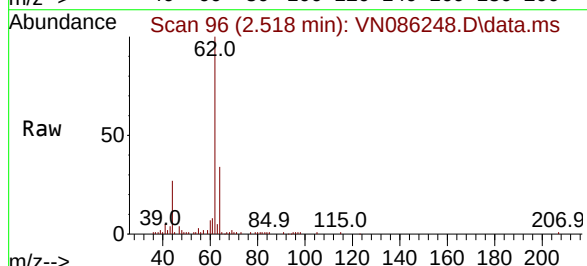
Manual Integrations
APPROVED

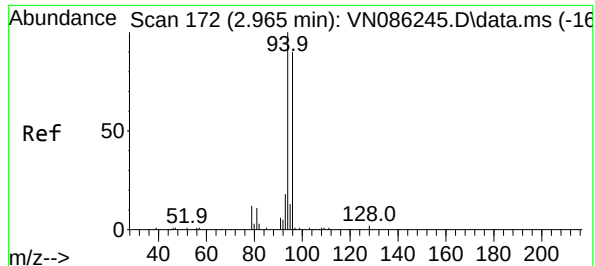
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#4
Vinyl Chloride
Concen: 20.223 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 62 Resp: 66222
Ion Ratio Lower Upper
62 100
64 33.7 26.3 39.5





#5

Bromomethane

Concen: 20.183 ug/l

RT: 2.965 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 94 Resp: 3296

Ion Ratio Lower Upper

94 100

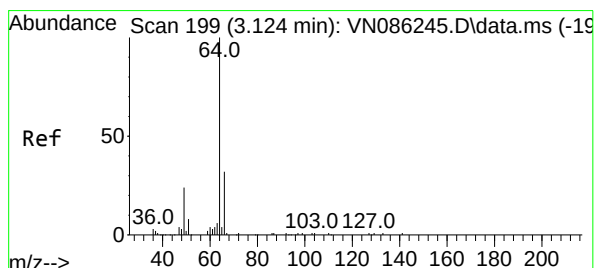
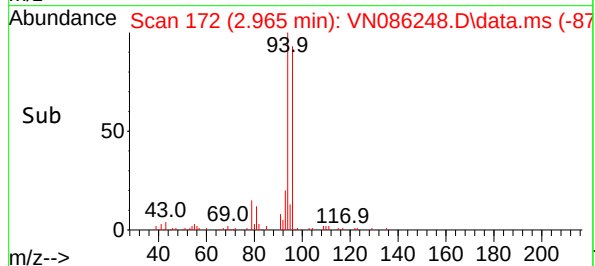
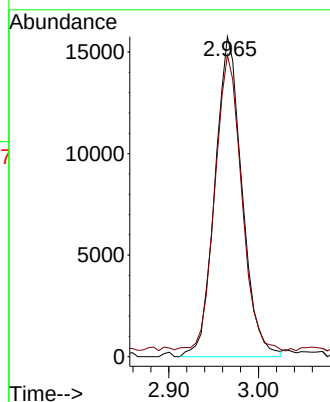
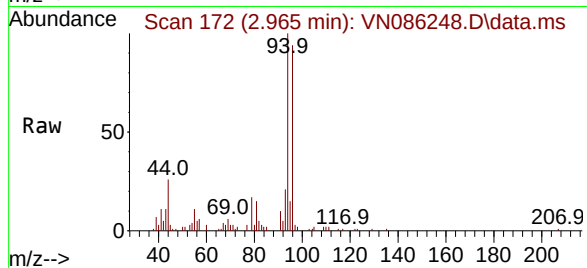
96 91.9 72.2 108.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#6

Chloroethane

Concen: 20.642 ug/l

RT: 3.124 min Scan# 199

Delta R.T. 0.000 min

Lab File: VN086248.D

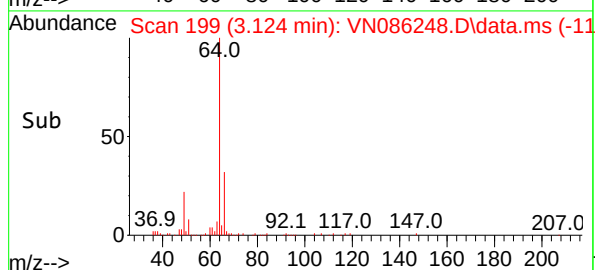
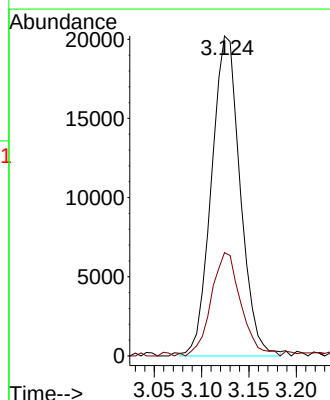
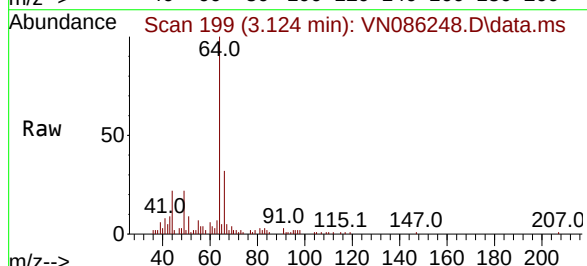
Acq: 11 Apr 2025 13:34

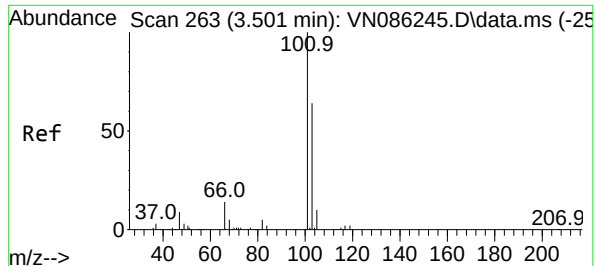
Tgt Ion: 64 Resp: 42684

Ion Ratio Lower Upper

64 100

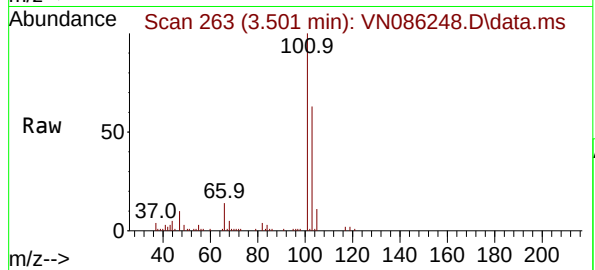
66 32.6 25.7 38.5





#7
Trichlorofluoromethane
Concen: 20.473 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

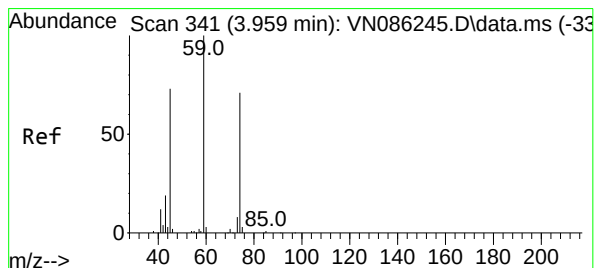
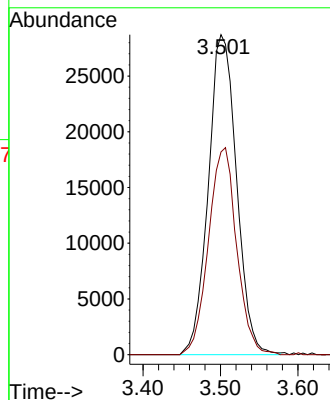
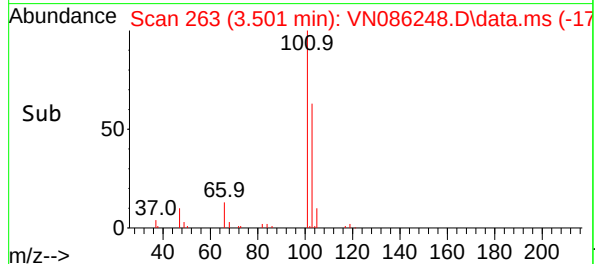
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 101 Resp: 72724
Ion Ratio Lower Upper
101 100
103 63.4 51.2 76.8

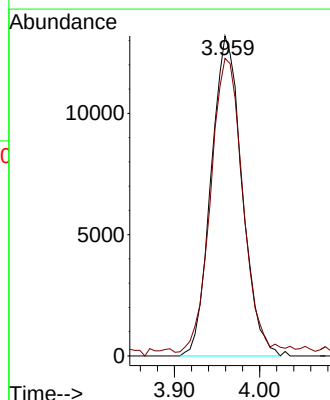
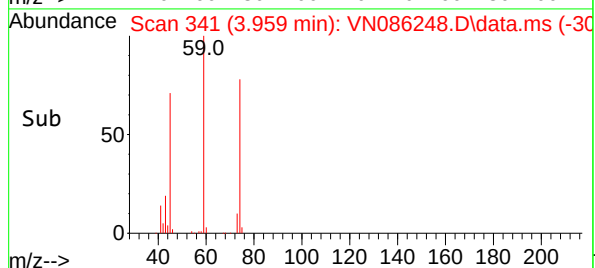
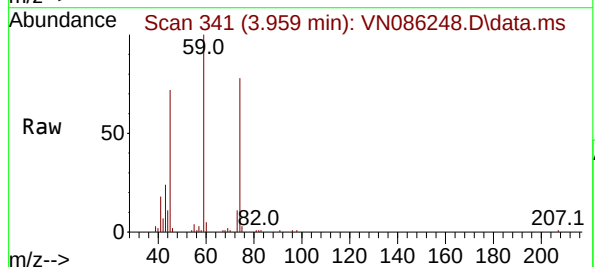
Manual Integrations
APPROVED

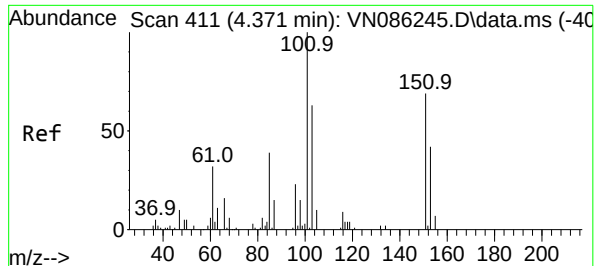
Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025



#8
Diethyl Ether
Concen: 20.276 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 74 Resp: 33215
Ion Ratio Lower Upper
74 100
45 96.4 19.2 173.2





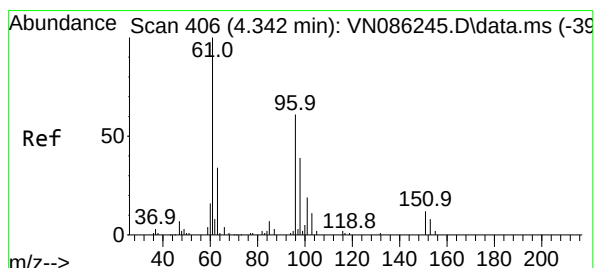
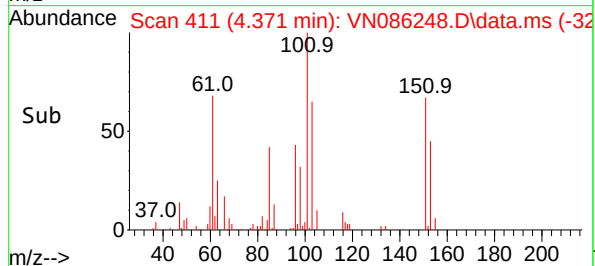
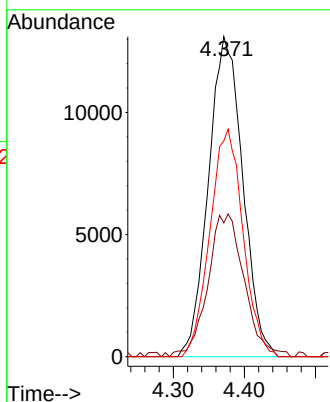
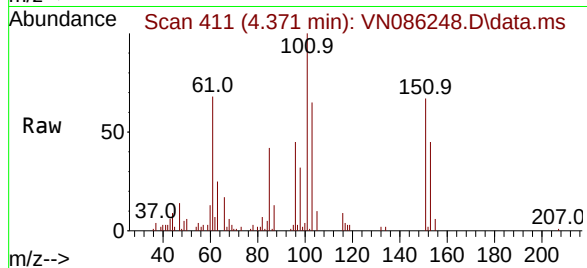
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.062 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion:101 Resp: 43944
Ion Ratio Lower Upper
101 100
85 46.6 0.0 93.0
151 68.6 0.0 138.6

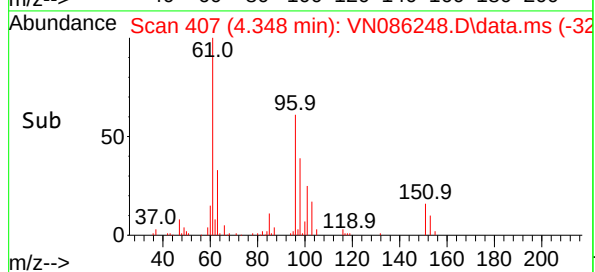
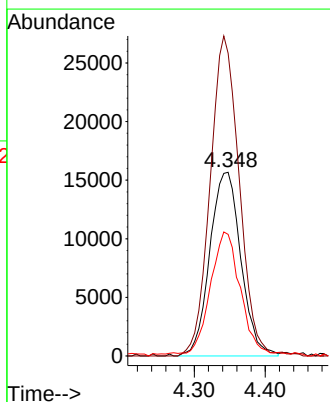
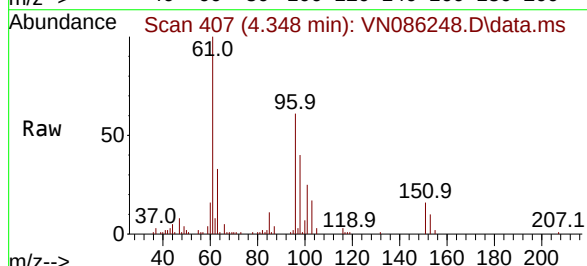
Manual Integrations
APPROVED

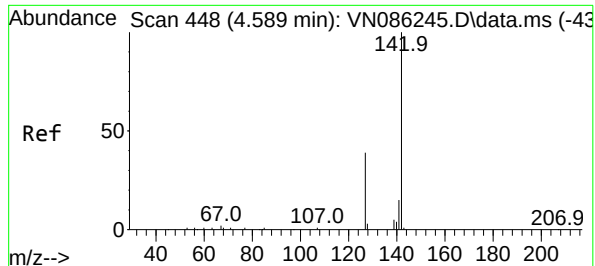
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#10
1,1-Dichloroethene
Concen: 20.128 ug/l
RT: 4.348 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

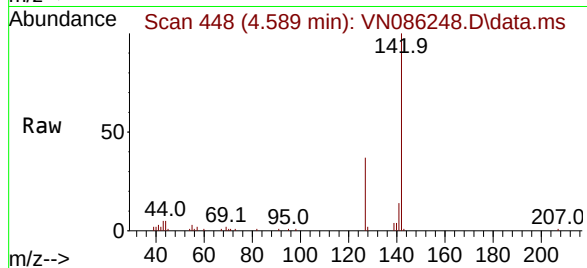
Tgt Ion: 96 Resp: 47582
Ion Ratio Lower Upper
96 100
61 164.7 131.1 196.7
98 64.7 51.6 77.4





#11
Methyl Iodide
Concen: 20.148 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

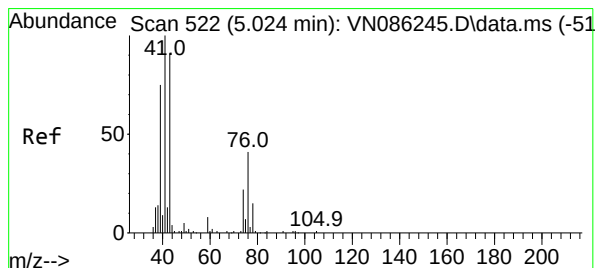
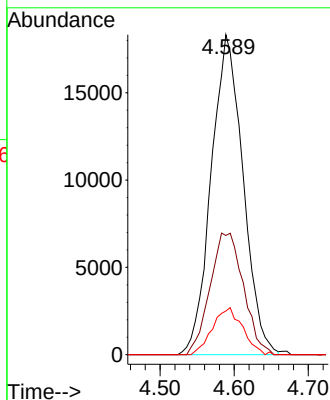
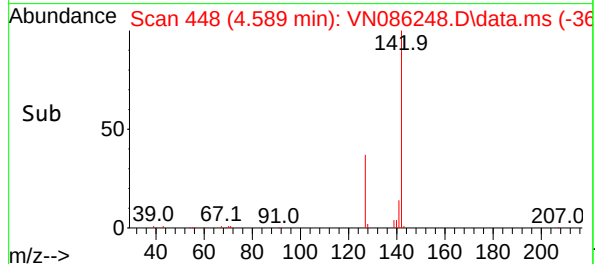
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:142 Resp: 54740
Ion Ratio Lower Upper
142 100
127 37.4 19.6 58.8
141 13.7 7.3 21.9

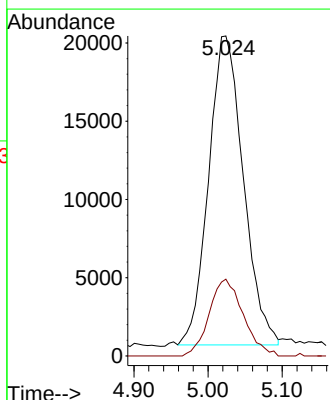
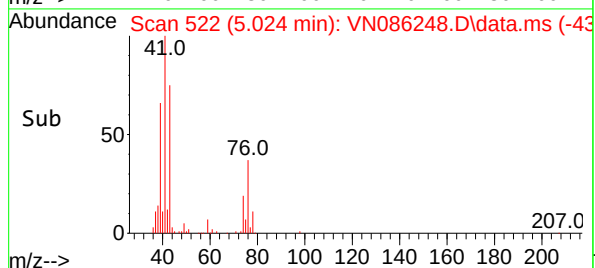
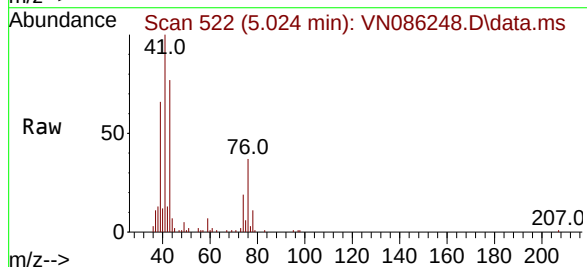
Manual Integrations
APPROVED

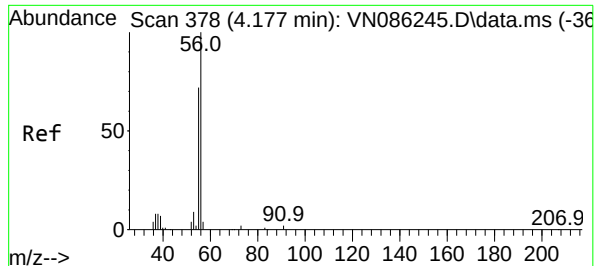
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#12
Methyl Acetate
Concen: 19.227 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 43 Resp: 64185
Ion Ratio Lower Upper
43 100
74 25.1 19.1 28.7





#13

Acrolein

Concen: 89.375 ug/l

RT: 4.177 min Scan# 378

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 56 Resp: 33914

Ion Ratio Lower Upper

56 100

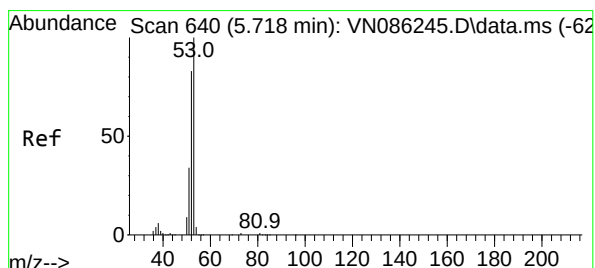
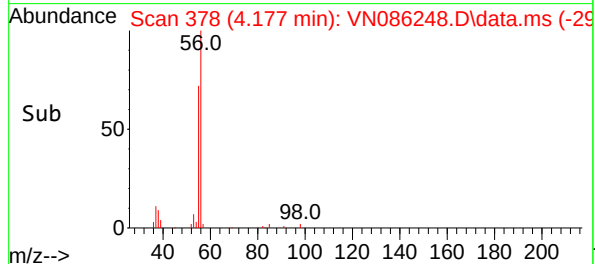
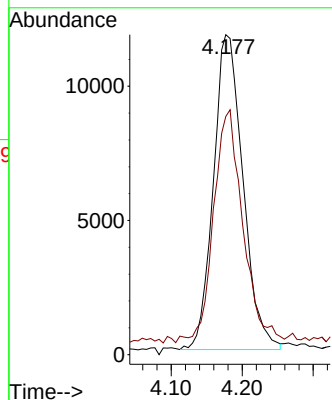
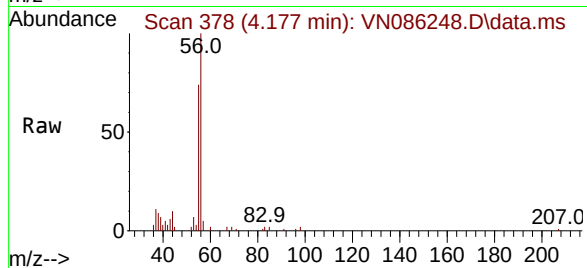
55 71.9 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#14

Acrylonitrile

Concen: 95.988 ug/l

RT: 5.718 min Scan# 640

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

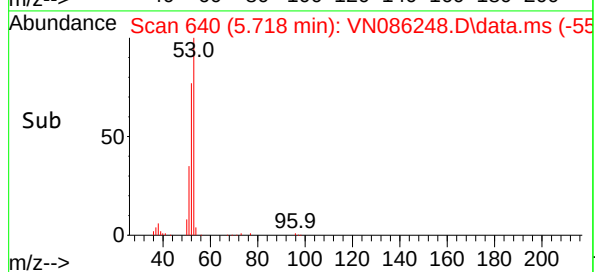
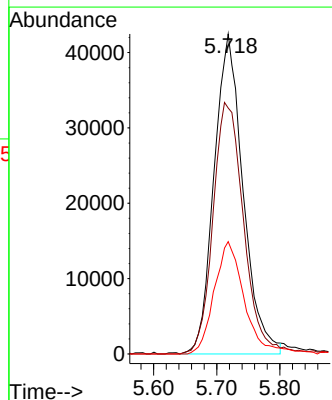
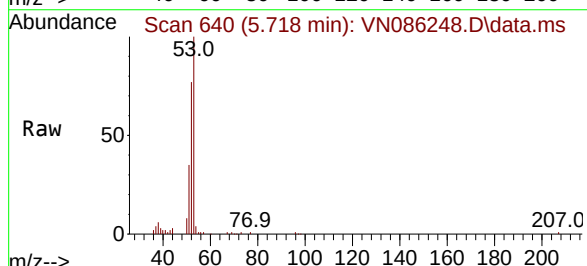
Tgt Ion: 53 Resp: 135274

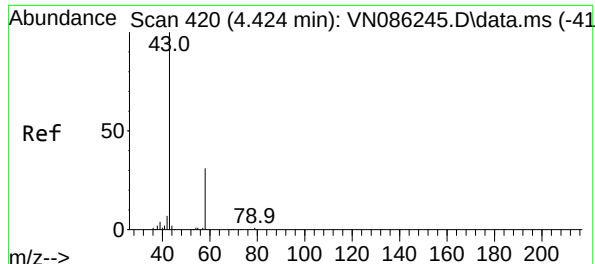
Ion Ratio Lower Upper

53 100

52 83.3 40.2 120.6

51 36.4 17.5 52.6





#15

Acetone

Concen: 93.868 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 58 Resp: 3354

Ion Ratio Lower Upper

58 100

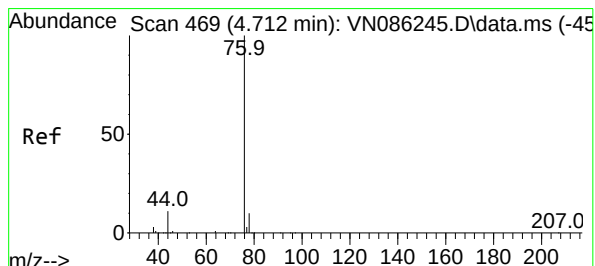
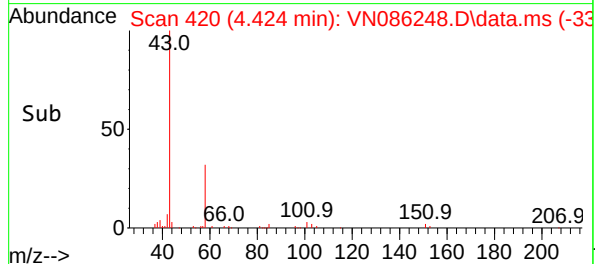
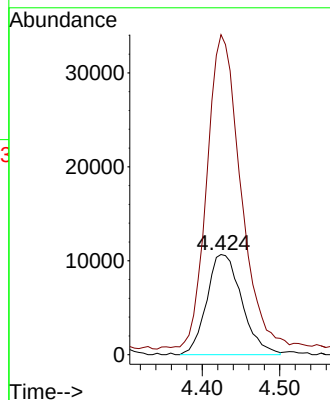
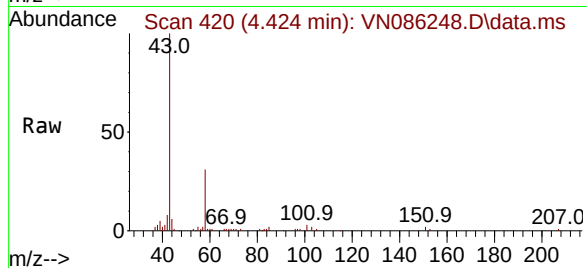
43 311.7 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#16

Carbon Disulfide

Concen: 20.456 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086248.D

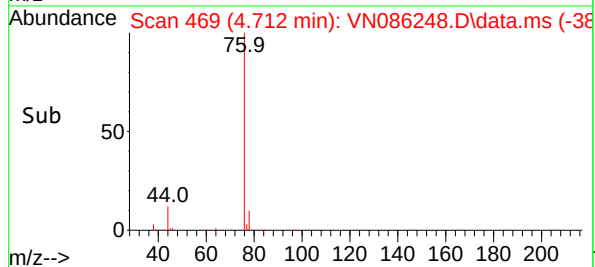
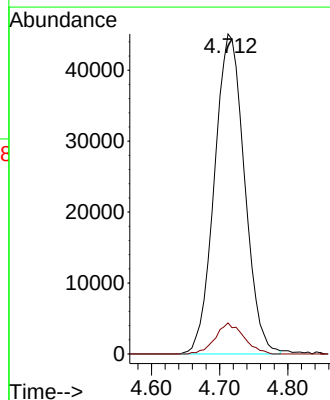
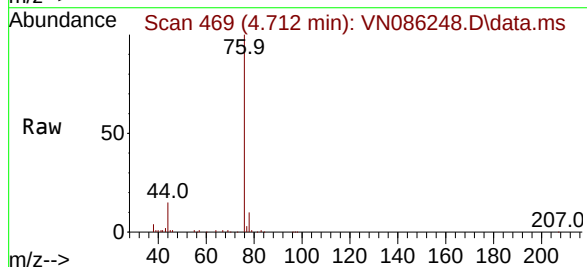
Acq: 11 Apr 2025 13:34

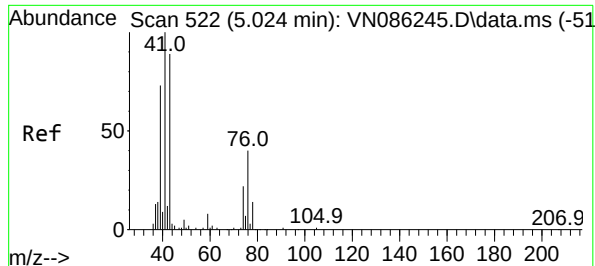
Tgt Ion: 76 Resp: 138661

Ion Ratio Lower Upper

76 100

78 9.7 7.7 11.5





#17

Allyl chloride

Concen: 20.801 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

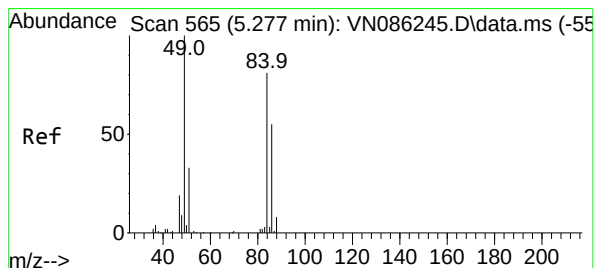
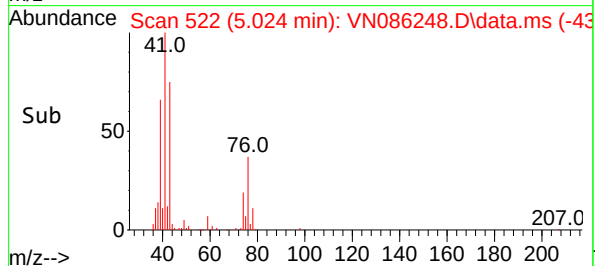
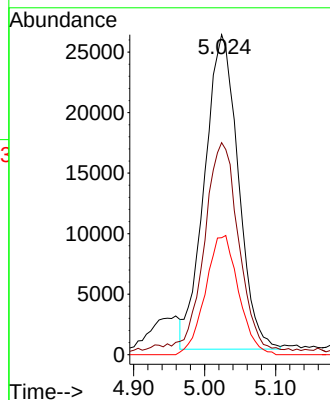
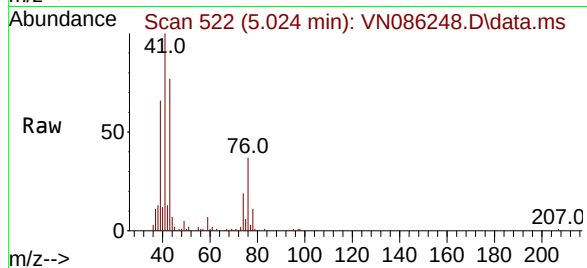
Tgt Ion:	41	Resp:	85704
Ion	Ratio	Lower	Upper
41	100		
39	66.3	34.4	103.2
76	37.5	18.8	56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#18

Methylene Chloride

Concen: 20.166 ug/l

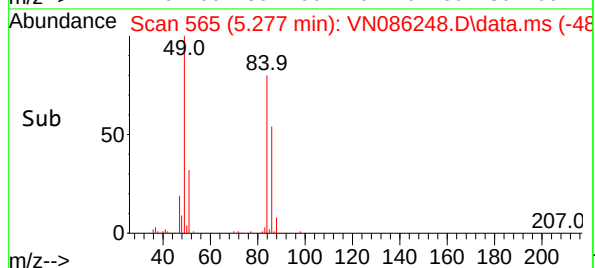
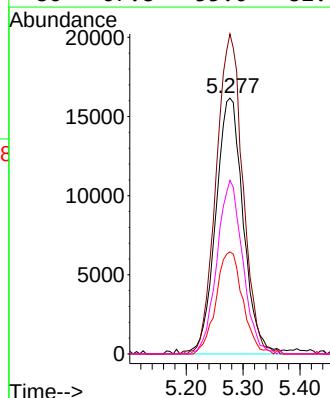
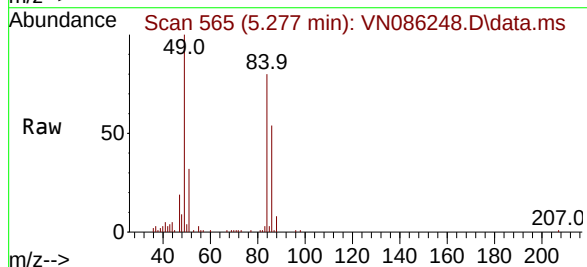
RT: 5.277 min Scan# 565

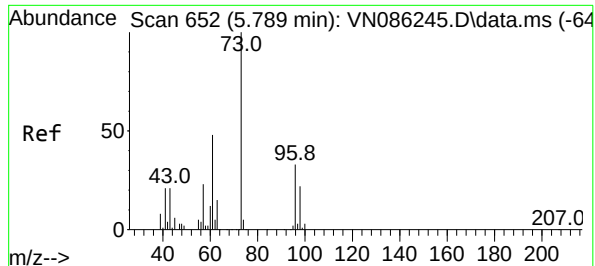
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Tgt Ion:	84	Resp:	54353
Ion	Ratio	Lower	Upper
84	100		
49	125.0	99.1	148.7
51	39.9	32.3	48.5
86	67.8	55.0	82.4





#19

trans-1,2-Dichloroethene

Concen: 19.638 ug/l

RT: 5.789 min Scan# 652

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN041125

Tgt Ion: 96 Resp: 4889

Ion Ratio Lower Upper

96 100

61 149.0 115.9 173.9

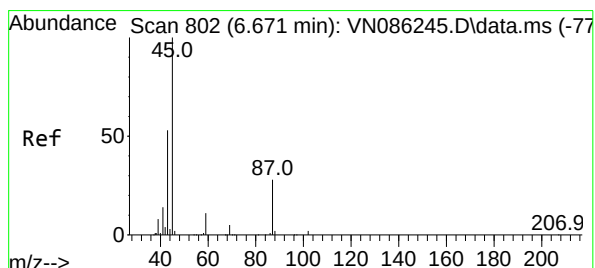
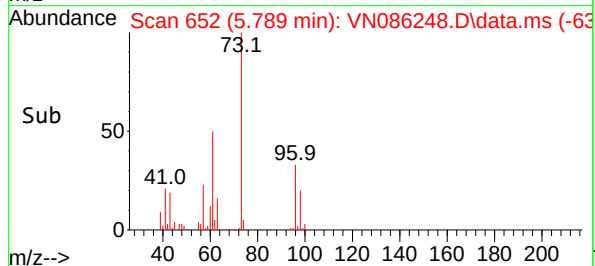
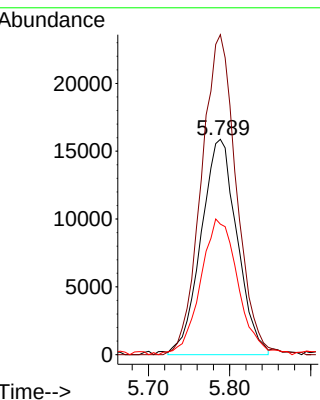
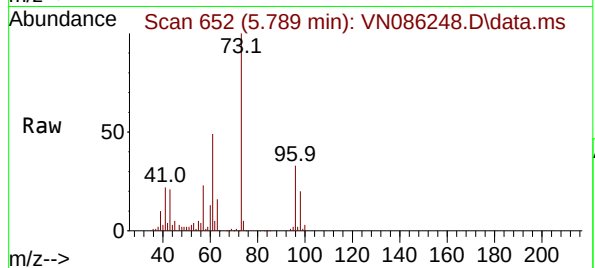
98 60.0 52.1 78.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#20

Diisopropyl ether

Concen: 20.688 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Tgt Ion: 45 Resp: 183254

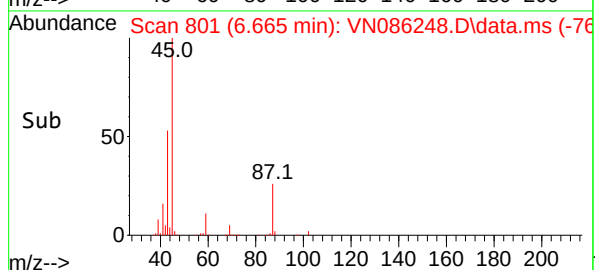
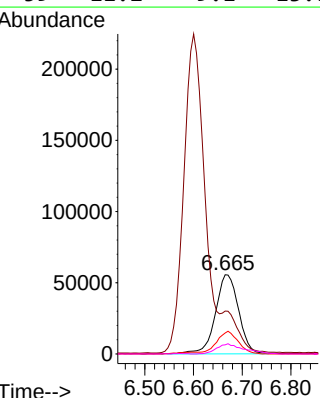
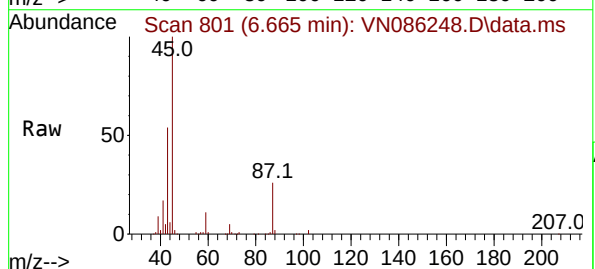
Ion Ratio Lower Upper

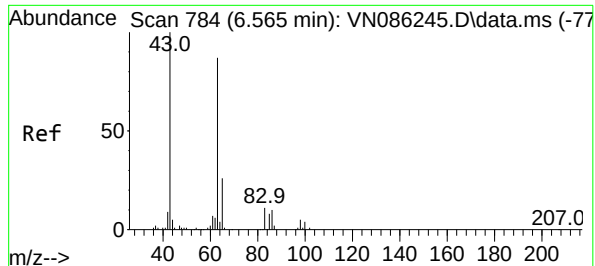
45 100

43 52.3 42.3 63.5

87 26.5 22.2 33.4

59 11.2 9.1 13.7





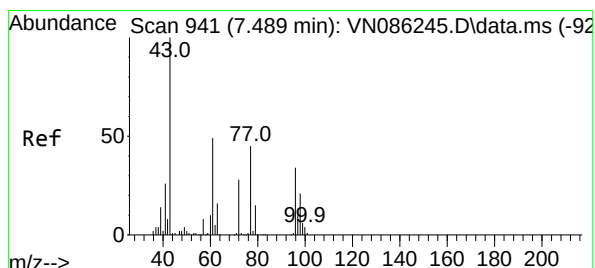
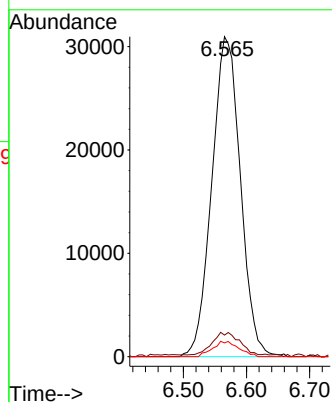
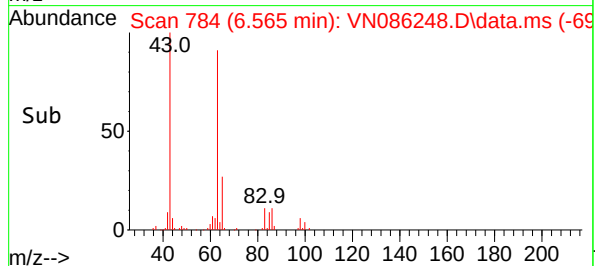
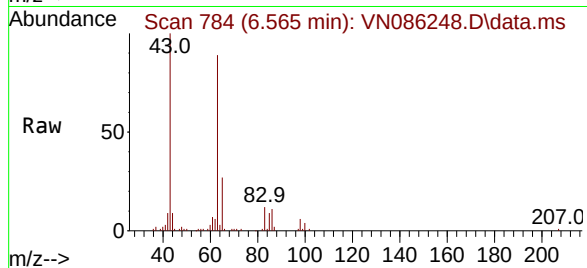
#21
1,1-Dichloroethane
Concen: 20.578 ug/l
RT: 6.565 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion:	63	Resp:	9724
Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.1	9.3
100	4.3	2.3	6.9

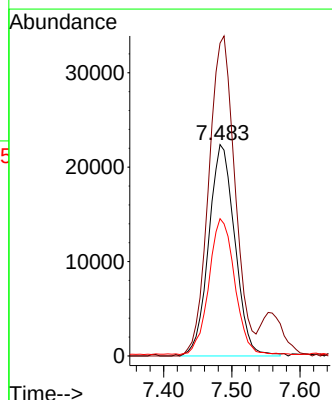
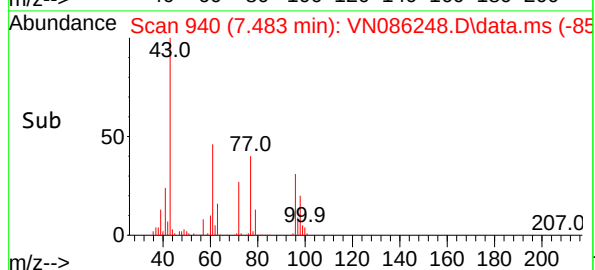
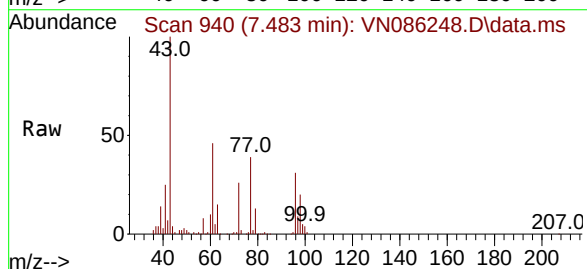
Manual Integrations
APPROVED

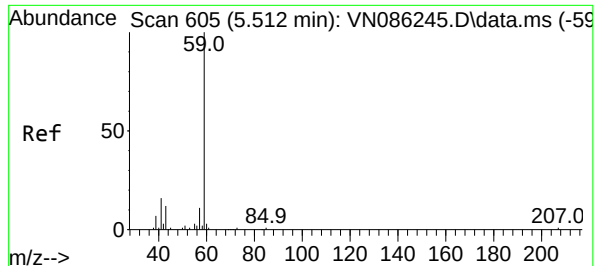
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#22
cis-1,2-Dichloroethene
Concen: 20.174 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:	96	Resp:	59840
Ion	Ratio	Lower	Upper
96	100		
61	152.2	119.5	179.3
98	63.0	51.0	76.6





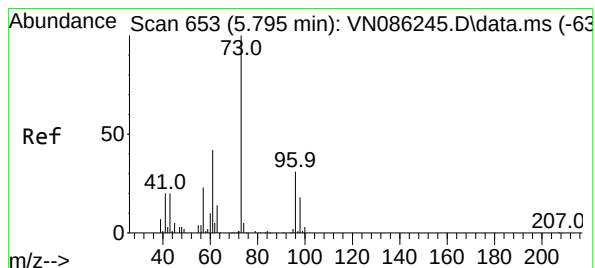
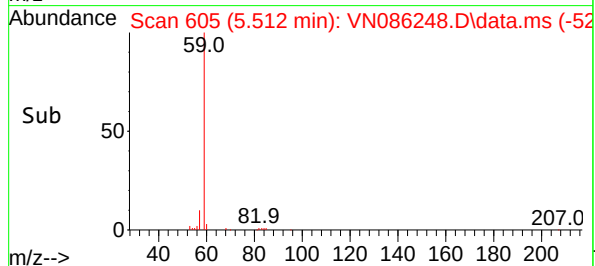
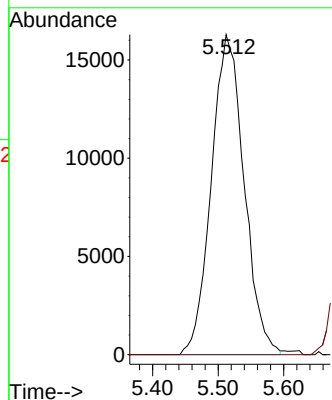
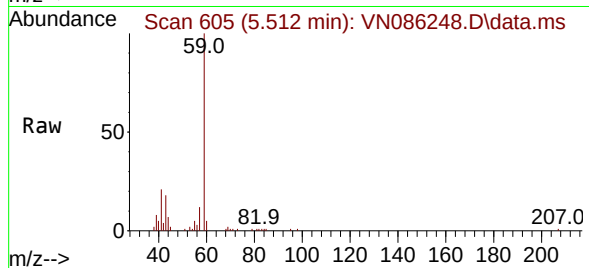
#23
tert-Butyl Alcohol
Concen: 96.723 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion: 59 Resp: 56480
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

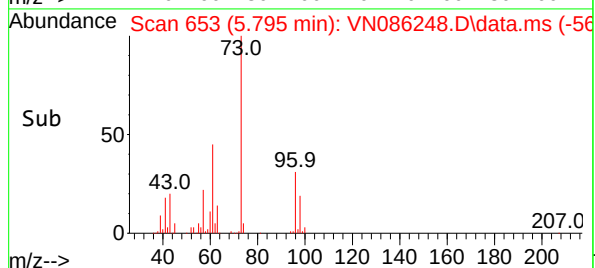
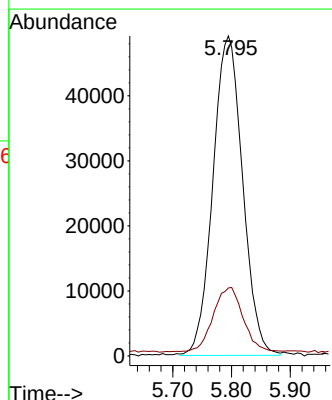
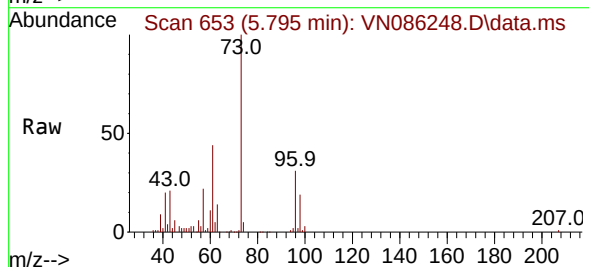
Manual Integrations
APPROVED

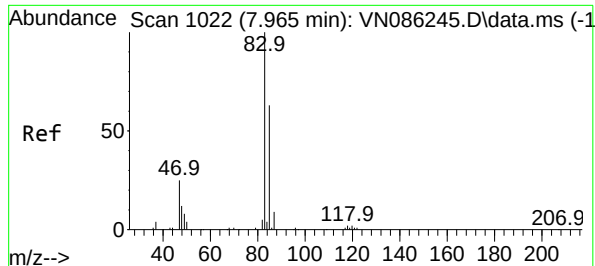
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#24
Methyl tert-Butyl Ether
Concen: 20.211 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 73 Resp: 172426
Ion Ratio Lower Upper
73 100
43 20.2 16.8 25.2





#25

Chloroform

Concen: 20.677 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 83 Resp: 9318

Ion Ratio Lower Upper

83 100

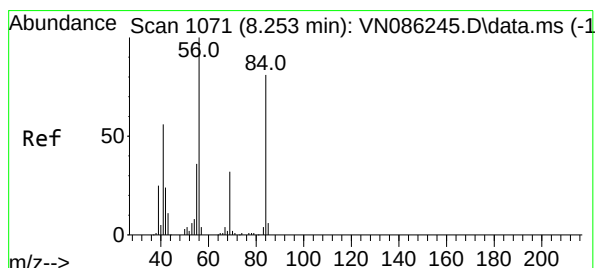
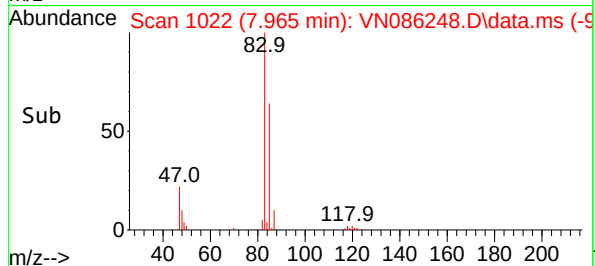
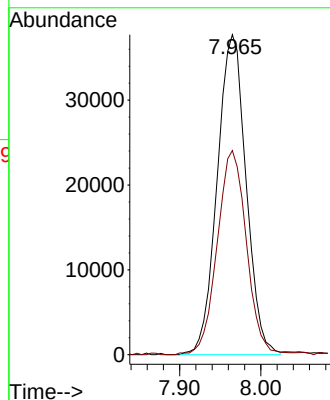
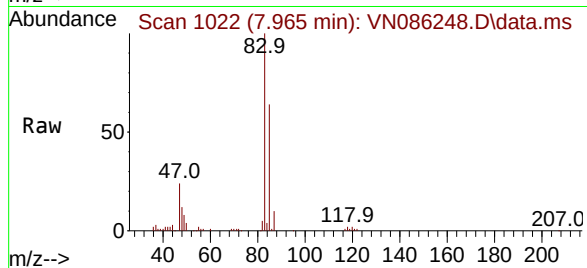
85 63.3 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#26

Cyclohexane

Concen: 19.913 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

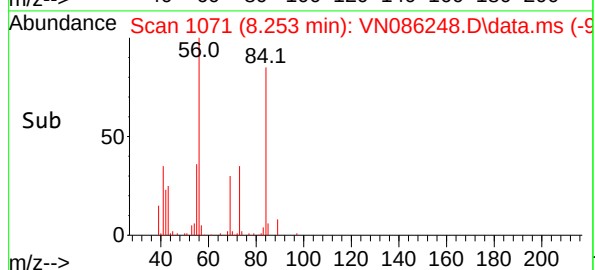
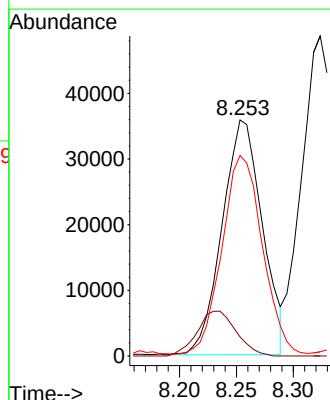
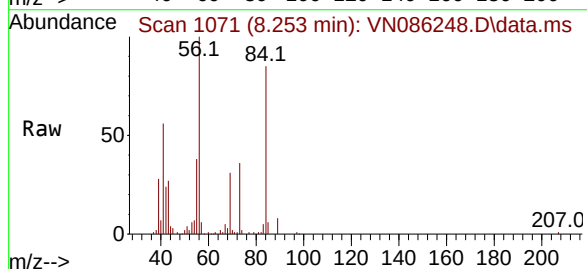
Tgt Ion: 56 Resp: 88041

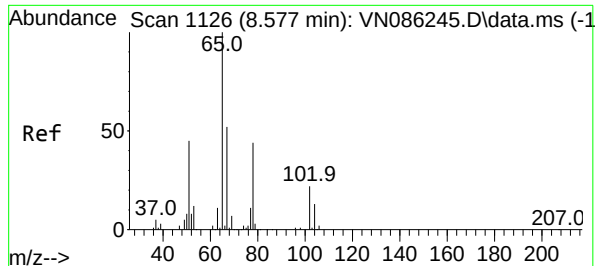
Ion Ratio Lower Upper

56 100

89 18.6 0.0 0.0#

84 86.2 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 29.777 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 65 Resp: 90160

Ion Ratio Lower Upper

65 100

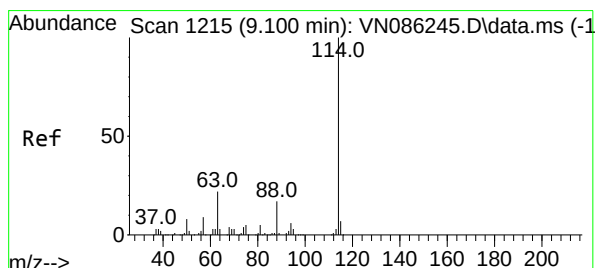
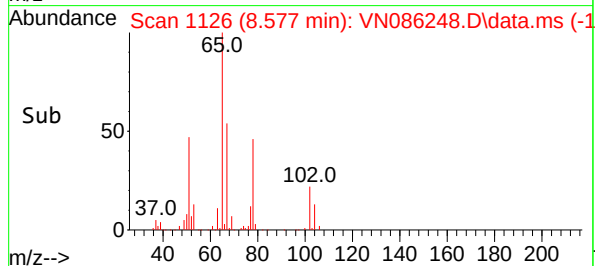
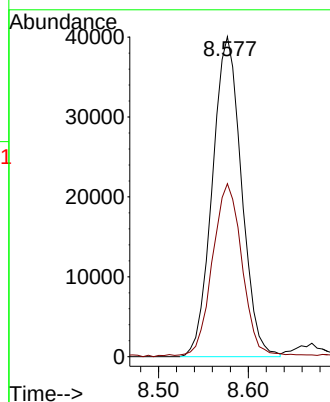
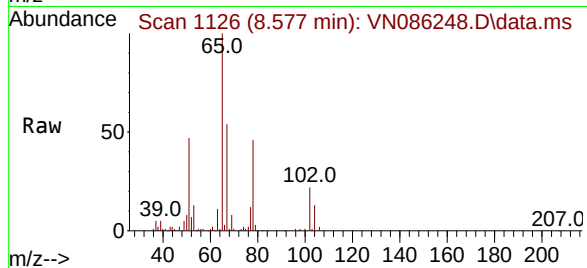
67 54.6 43.4 65.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

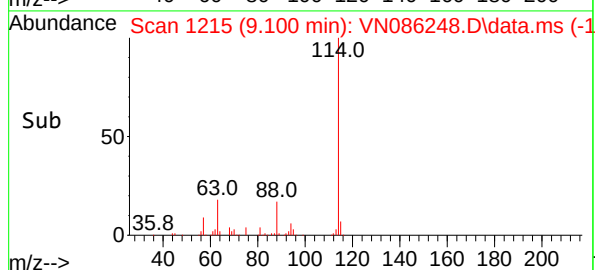
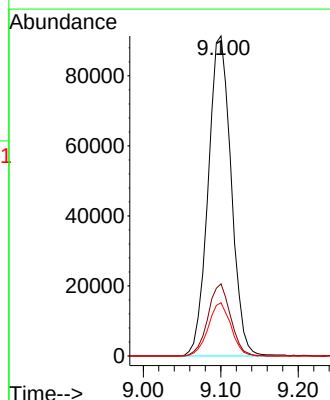
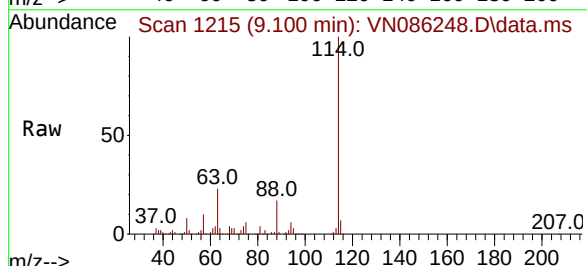
Tgt Ion:114 Resp: 187987

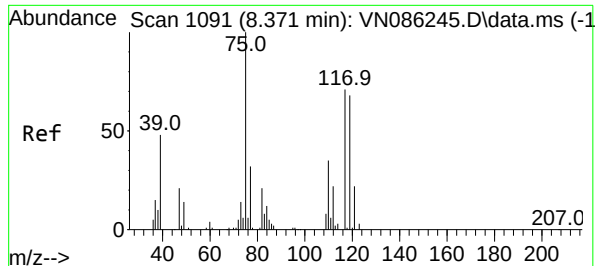
Ion Ratio Lower Upper

114 100

63 22.2 17.8 26.6

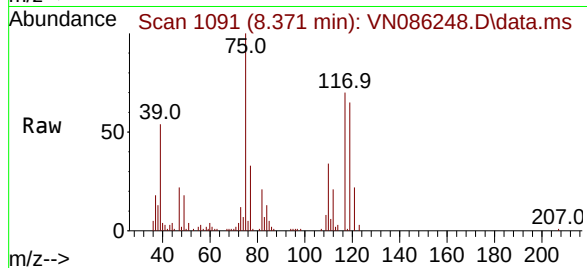
88 16.5 13.4 20.2





#29
1,1-Dichloropropene
Concen: 20.373 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

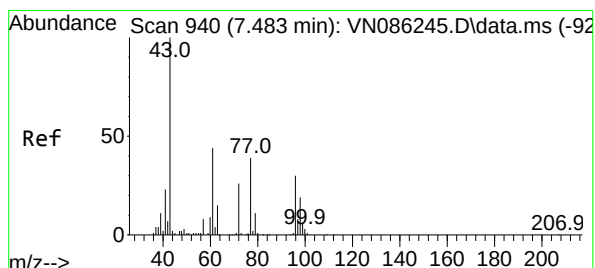
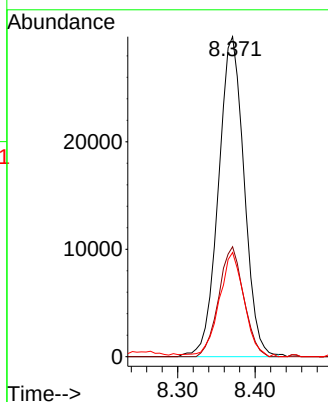
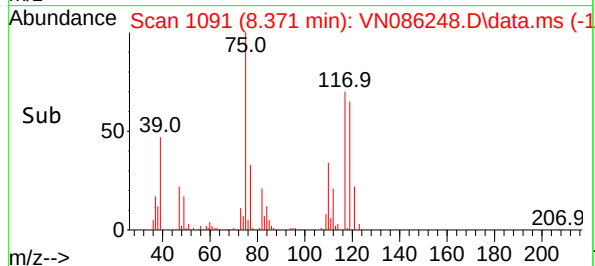
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 75 Resp: 68608
Ion Ratio Lower Upper
75 100
110 33.4 0.0 68.6
77 31.4 0.0 63.8

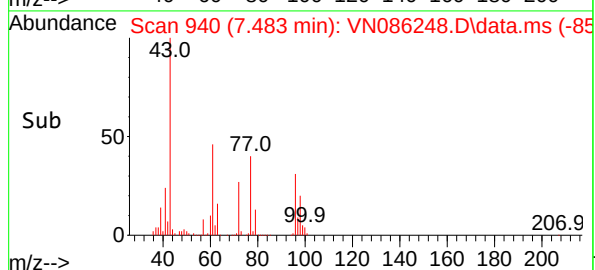
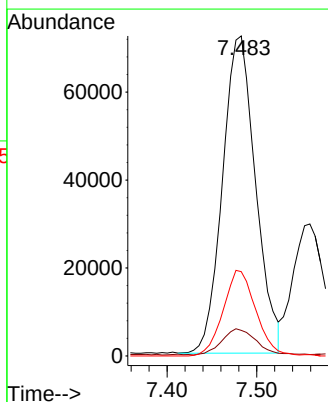
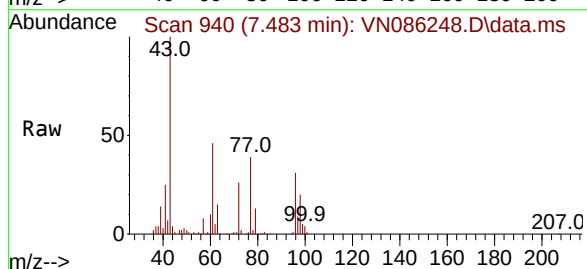
Manual Integrations
APPROVED

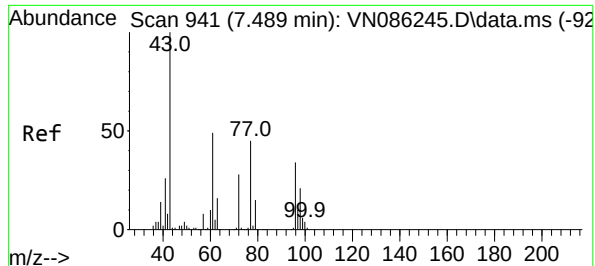
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#30
2-Butanone
Concen: 98.995 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 43 Resp: 184728
Ion Ratio Lower Upper
43 100
57 8.6 6.4 9.6
72 26.7 21.5 32.3





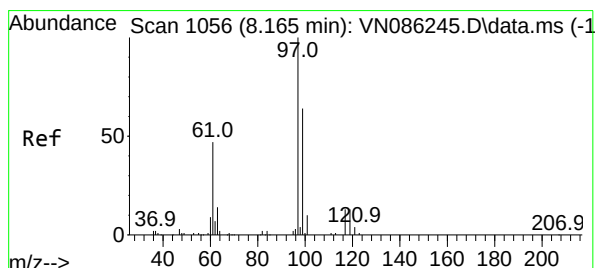
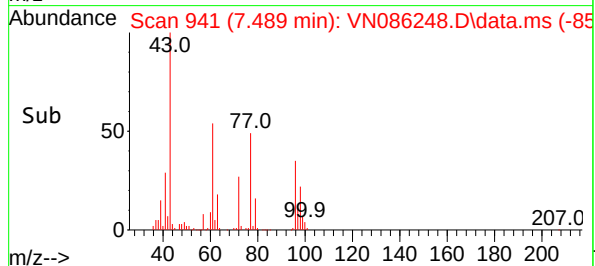
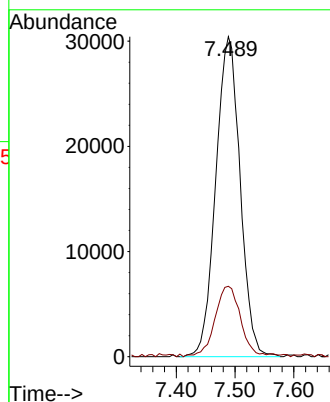
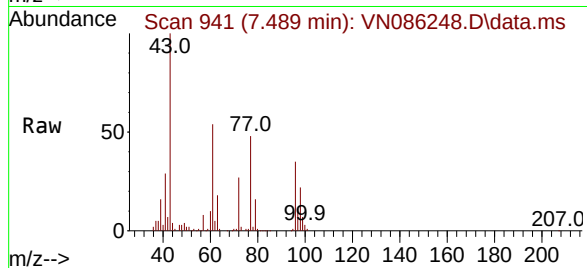
#31
2,2-Dichloropropane
Concen: 21.111 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion: 77 Resp: 8751
Ion Ratio Lower Upper
77 100
97 22.7 18.8 28.2

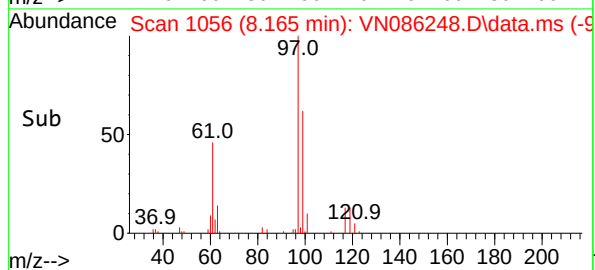
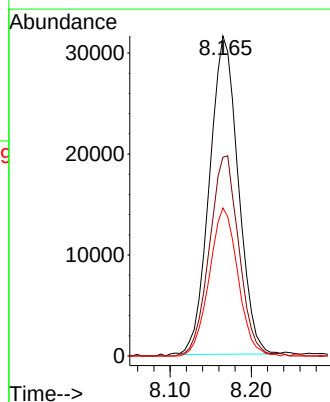
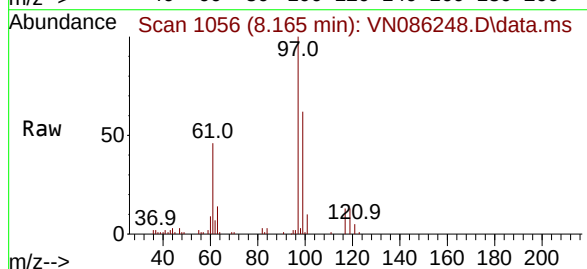
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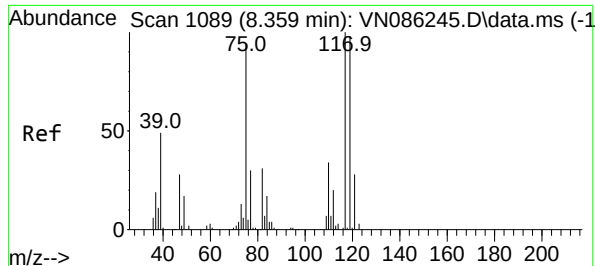
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#32
1,1,1-Trichloroethane
Concen: 20.044 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

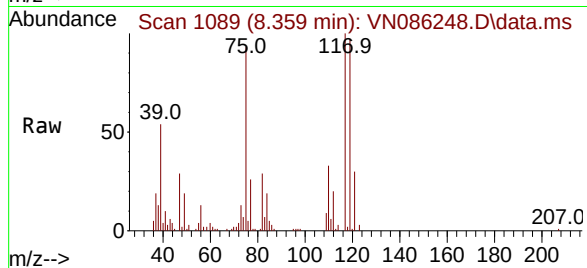
Tgt Ion: 97 Resp: 77645
Ion Ratio Lower Upper
97 100
99 64.1 51.4 77.2
61 46.2 37.0 55.6





#33
Carbon Tetrachloride
Concen: 20.360 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

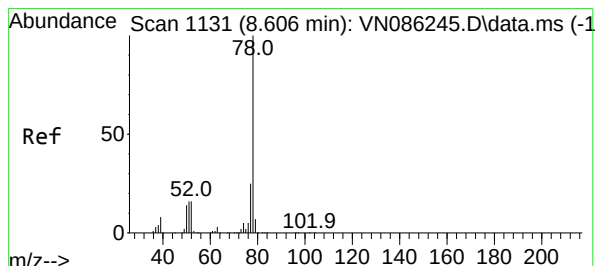
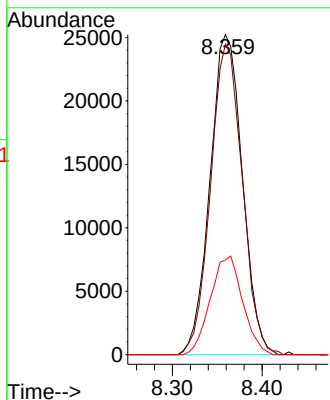
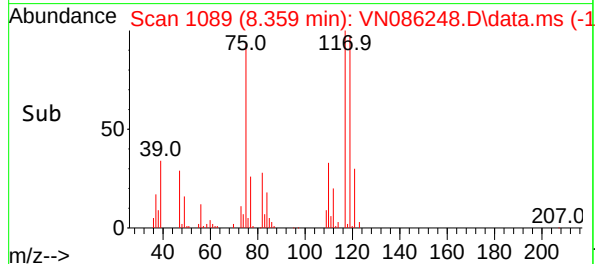
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 117 Resp: 63029
Ion Ratio Lower Upper
117 100
119 97.1 78.3 117.5
121 29.6 22.5 33.7

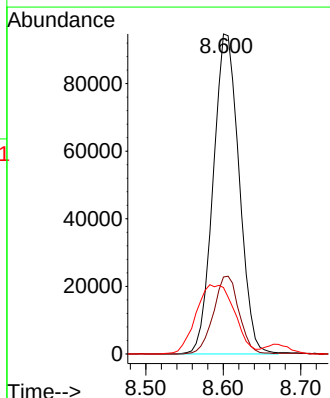
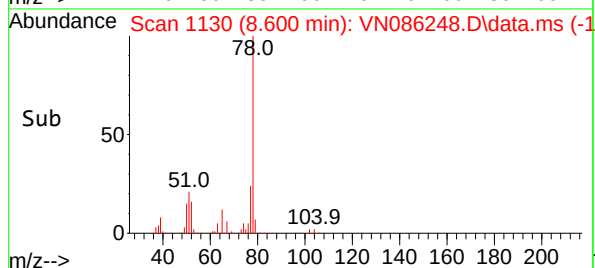
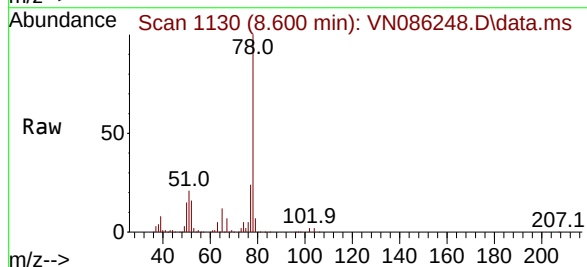
Manual Integrations
APPROVED

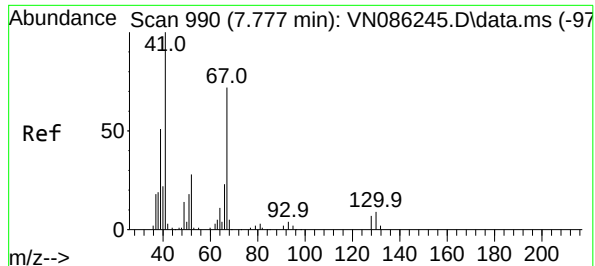
Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025



#34
Benzene
Concen: 20.522 ug/l
RT: 8.600 min Scan# 1130
Delta R.T. -0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 78 Resp: 219862
Ion Ratio Lower Upper
78 100
77 24.1 20.0 30.0
51 19.8 12.9 19.3#





#35

Methacrylonitrile

Concen: 19.764 ug/l

RT: 7.777 min Scan# 990

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

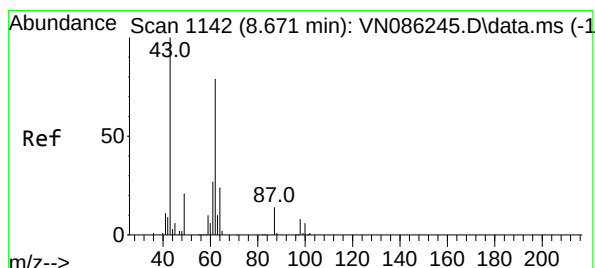
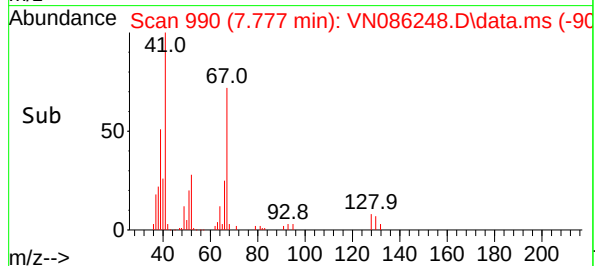
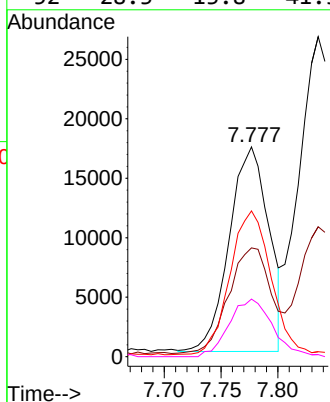
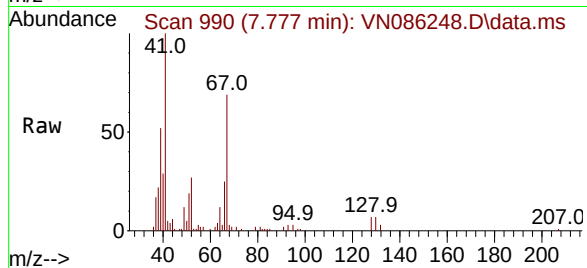
Tgt Ion:	41	Resp:	4157
Ion	Ratio	Lower	Upper
41	100		
39	51.7	25.8	77.3
67	70.4	36.0	108.0
52	28.3	13.8	41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#36

1,2-Dichloroethane

Concen: 20.391 ug/l

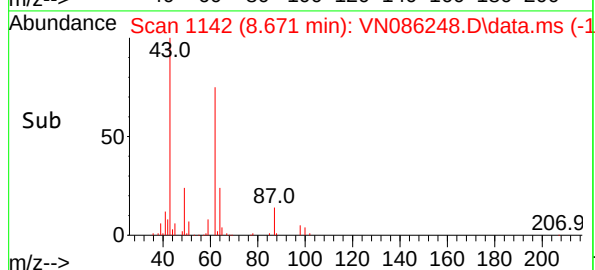
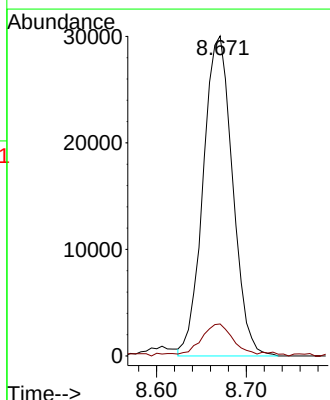
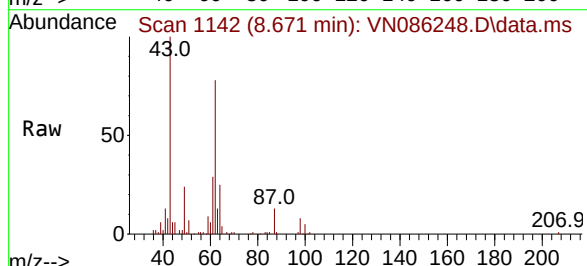
RT: 8.671 min Scan# 1142

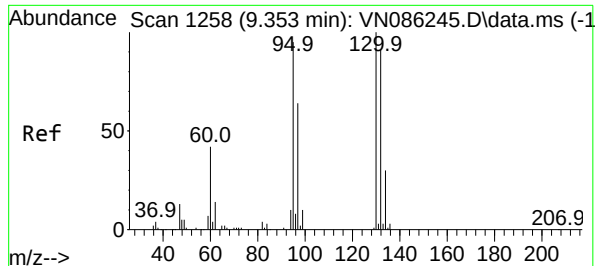
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Tgt Ion:	62	Resp:	68362
Ion	Ratio	Lower	Upper
62	100		
98	10.6	8.6	12.8





#37

Trichloroethene

Concen: 19.842 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion:130 Resp: 5129

Ion Ratio Lower Upper

130 100

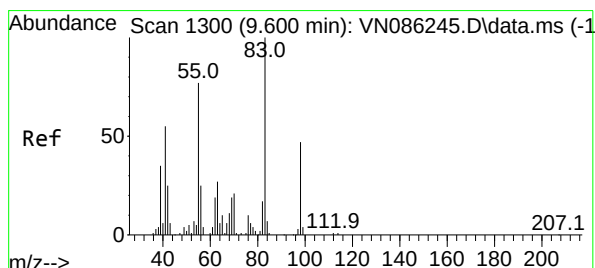
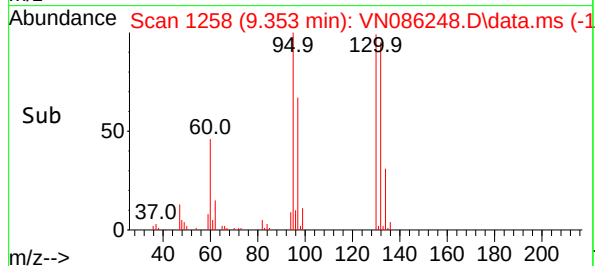
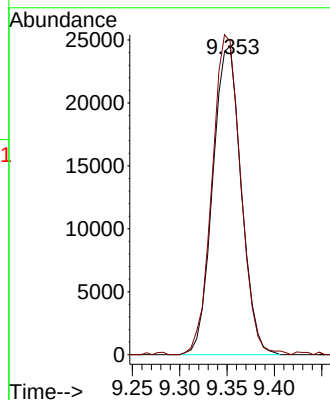
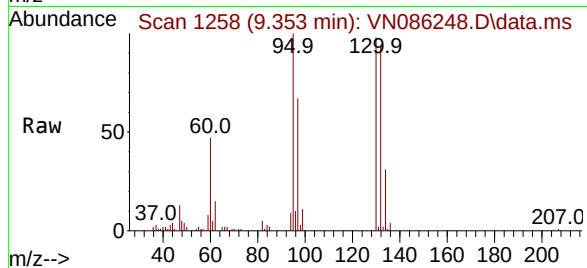
95 101.6 76.4 114.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#38

Methylcyclohexane

Concen: 20.137 ug/l

RT: 9.594 min Scan# 1299

Delta R.T. -0.006 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

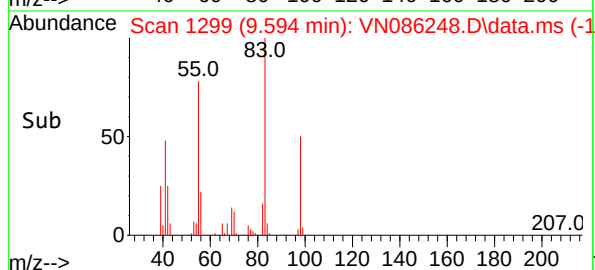
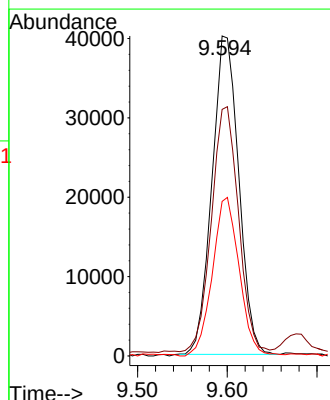
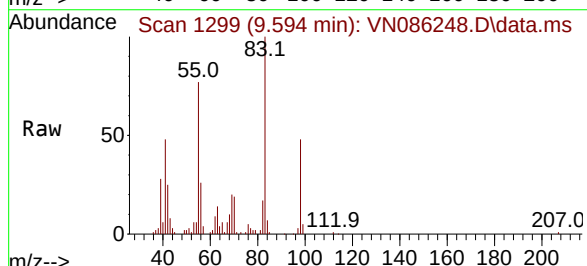
Tgt Ion: 83 Resp: 83168

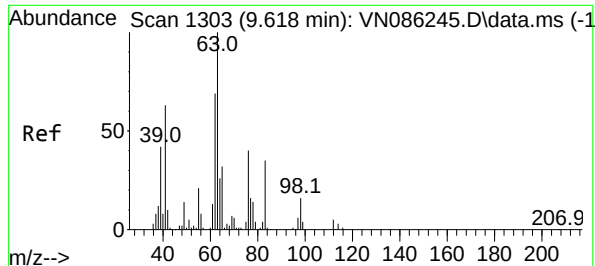
Ion Ratio Lower Upper

83 100

55 78.5 38.5 115.5

98 50.0 24.4 73.2





#39

1,2-Dichloropropane

Concen: 20.675 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 63 Resp: 55110

Ion Ratio Lower Upper

63 100

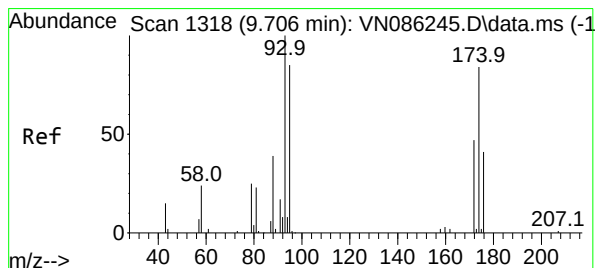
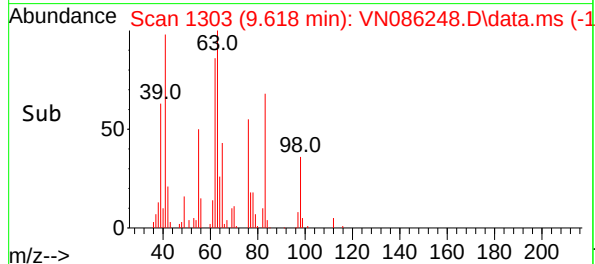
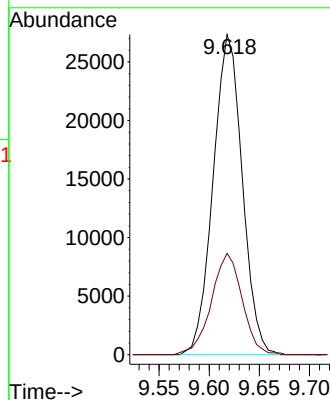
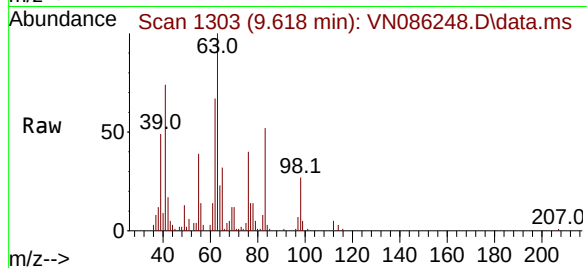
65 31.1 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#40

Dibromomethane

Concen: 19.681 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

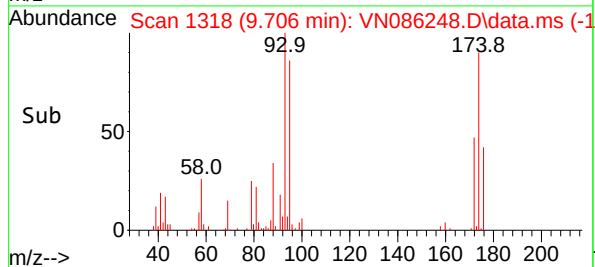
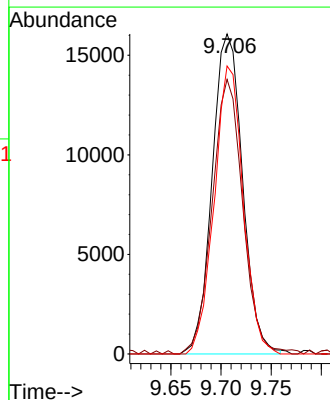
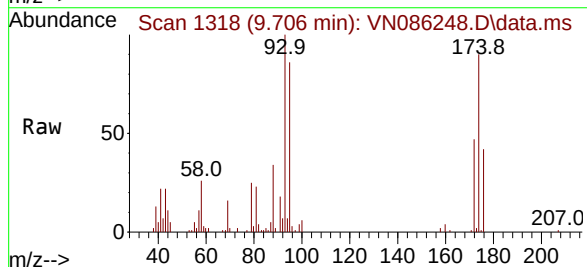
Tgt Ion: 93 Resp: 33887

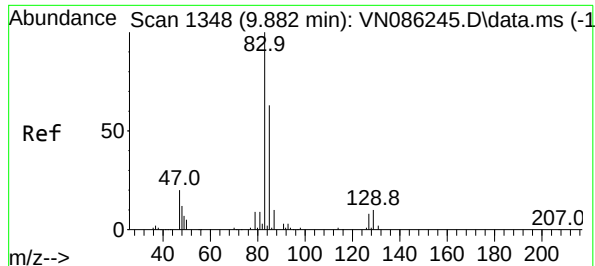
Ion Ratio Lower Upper

93 100

95 86.2 0.0 169.0

174 85.9 0.0 168.0





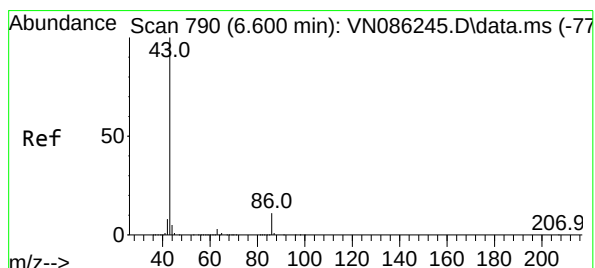
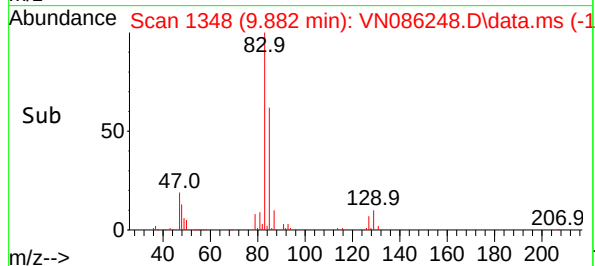
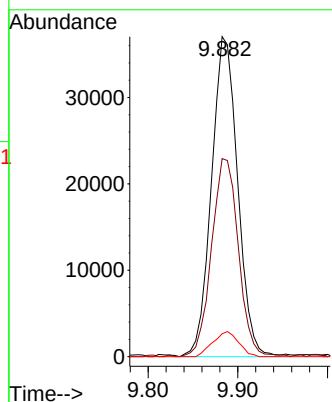
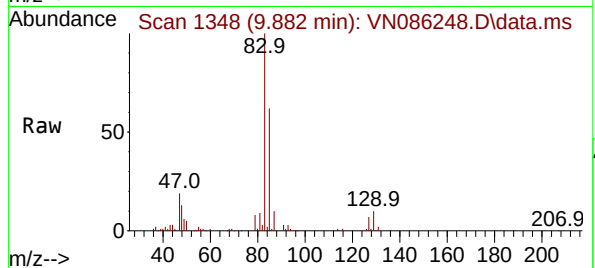
#41
Bromodichloromethane
Concen: 20.289 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion: 83 Resp: 75048
Ion Ratio Lower Upper
83 100
85 61.9 50.2 75.2
127 7.1 6.2 9.4

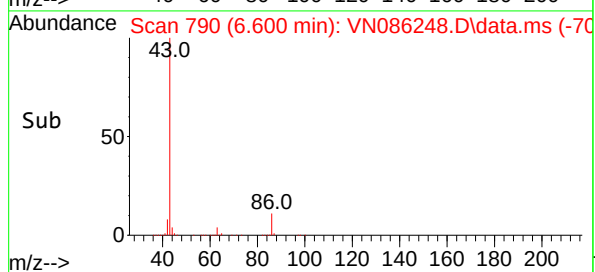
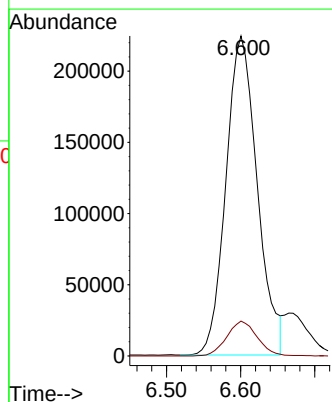
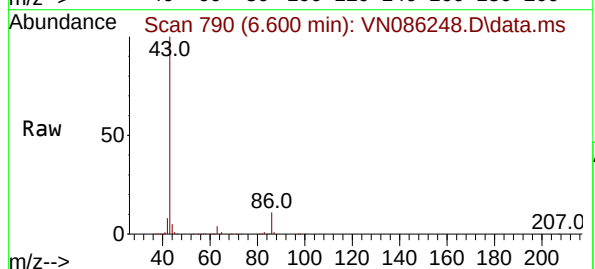
Manual Integrations
APPROVED

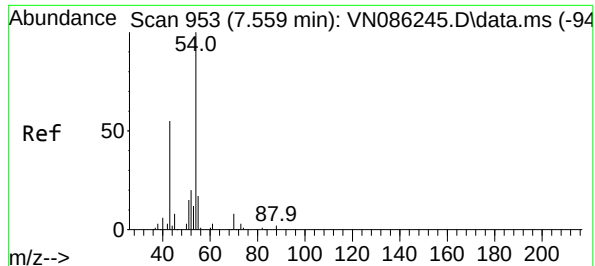
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#42
Vinyl Acetate
Concen: 103.572 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

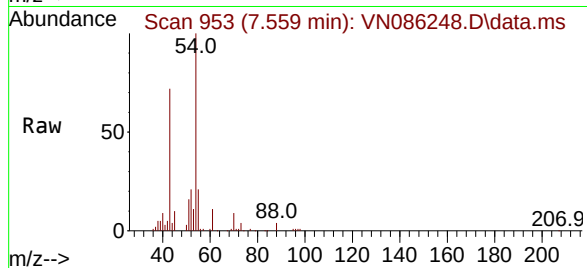
Tgt Ion: 43 Resp: 657878
Ion Ratio Lower Upper
43 100
86 10.6 8.4 12.6





#43
Ethyl Acetate
Concen: 20.054 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

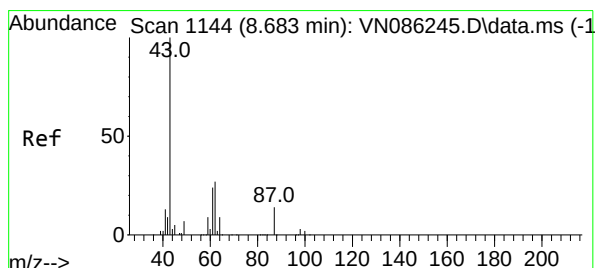
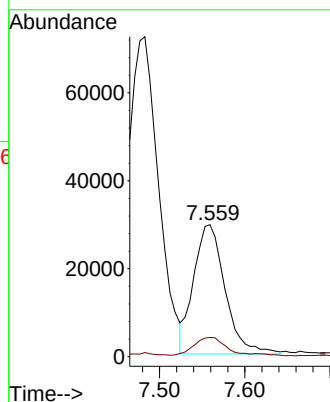
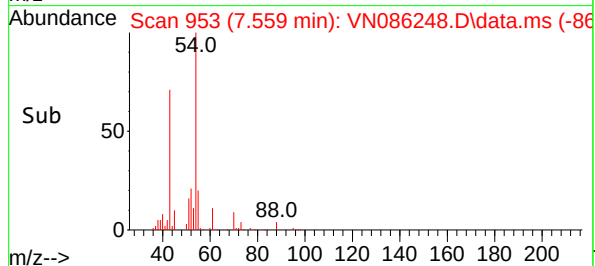
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 43 Resp: 7548
Ion Ratio Lower Upper
43 100
45 13.3 11.2 16.8

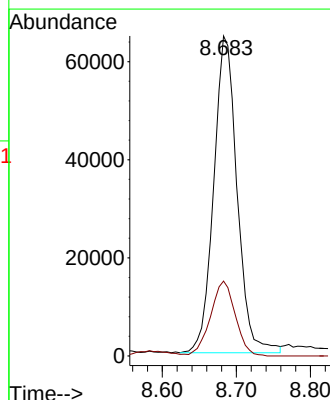
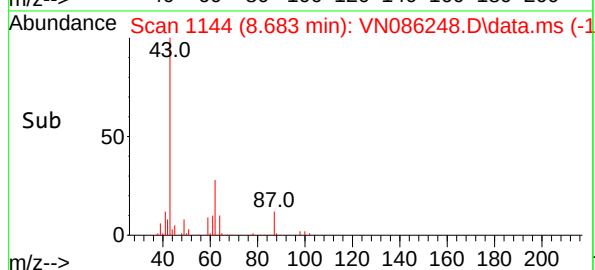
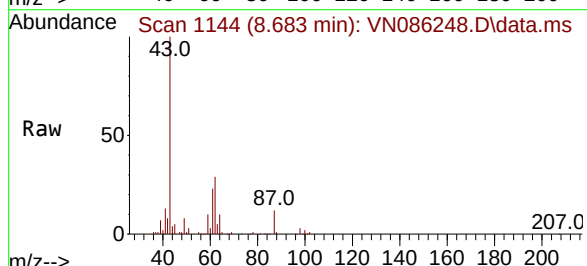
Manual Integrations
APPROVED

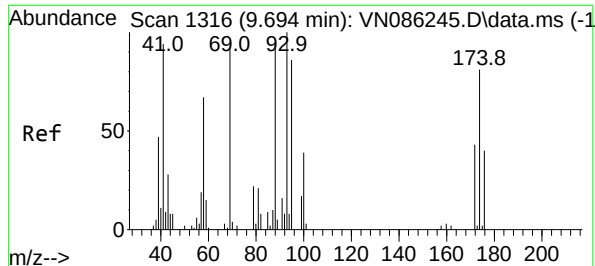
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#44
Isopropyl Acetate
Concen: 20.285 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 43 Resp: 141640
Ion Ratio Lower Upper
43 100
61 25.0 20.5 30.7





#45

1,4-Dioxane

Concen: 369.952 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

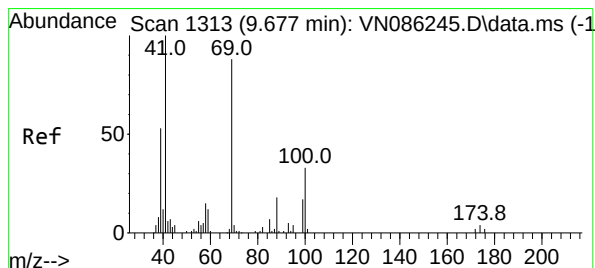
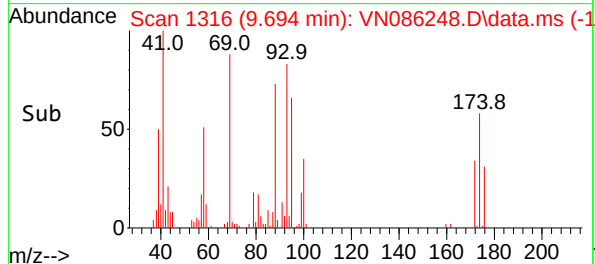
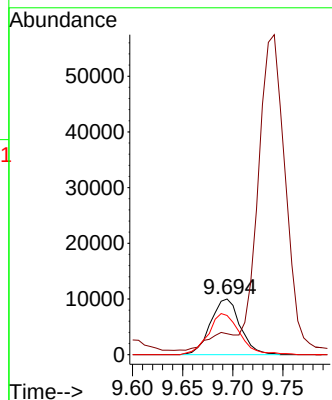
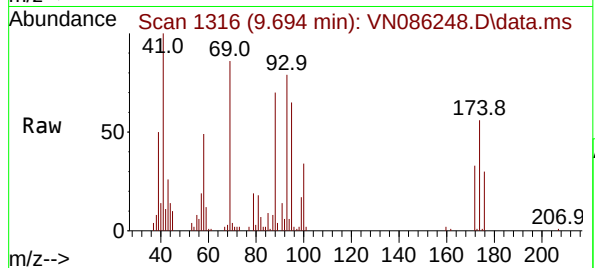
Tgt Ion:	88	Resp:	2054
Ion	Ratio	Lower	Upper
88	100		
43	32.9	14.4	21.6
58	76.6	59.8	89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#46

Methyl methacrylate

Concen: 19.956 ug/l

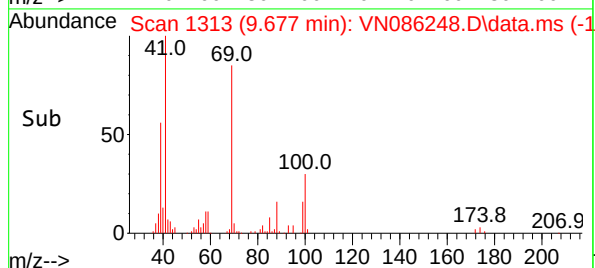
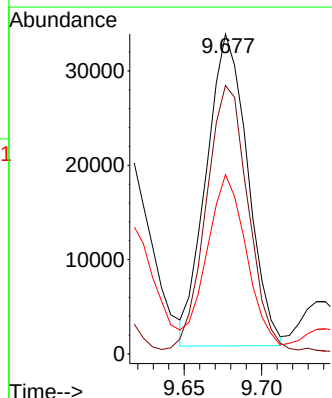
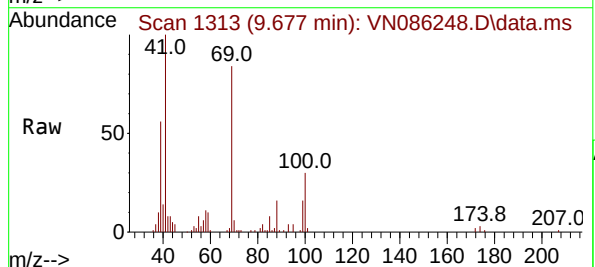
RT: 9.677 min Scan# 1313

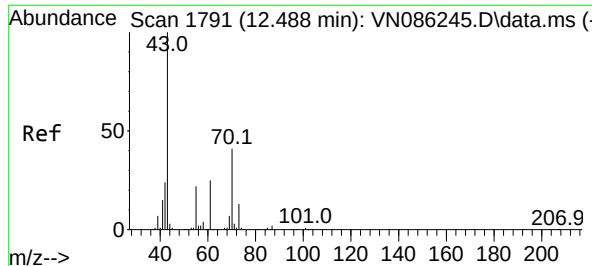
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Tgt Ion:	41	Resp:	61396
Ion	Ratio	Lower	Upper
41	100		
69	85.0	43.2	129.6
39	56.3	26.4	79.0





#47

n-amyl acetate

Concen: 19.589 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

Tgt Ion: 43 Resp: 108440

Ion Ratio Lower Upper

43 100

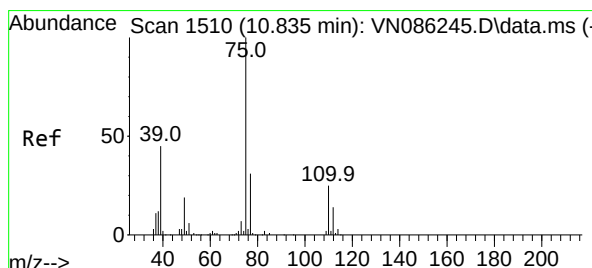
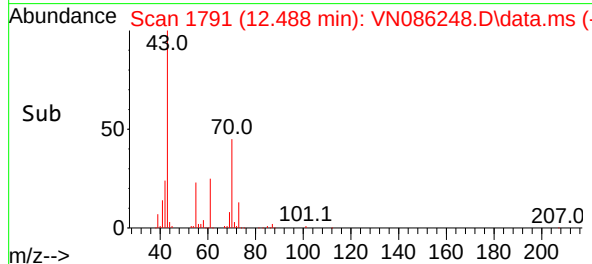
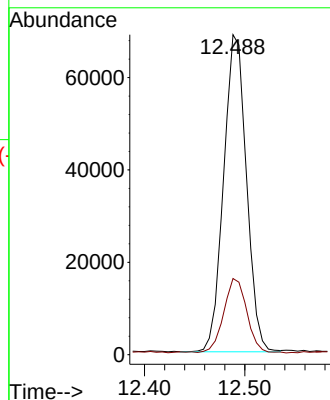
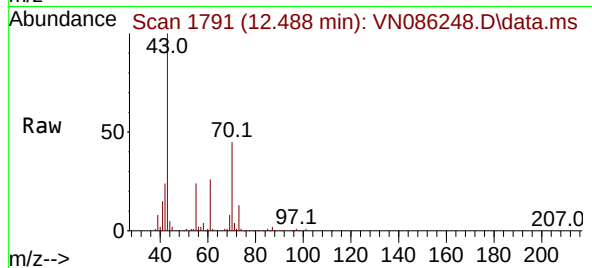
55 23.4 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#48

t-1,3-Dichloropropene

Concen: 20.190 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN086248.D

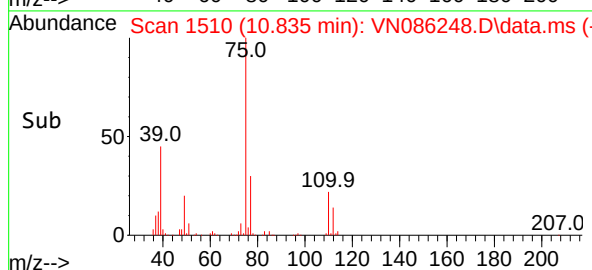
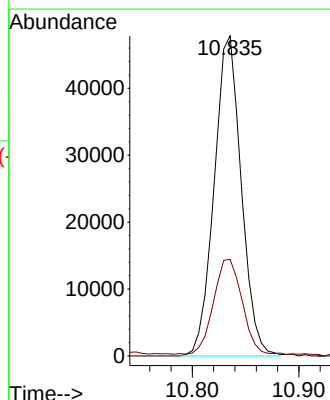
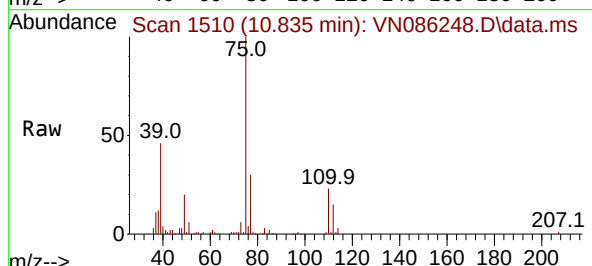
Acq: 11 Apr 2025 13:34

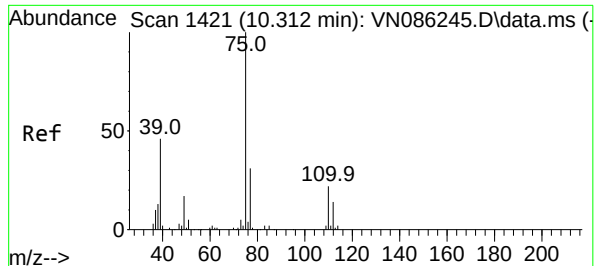
Tgt Ion: 75 Resp: 84428

Ion Ratio Lower Upper

75 100

77 29.4 25.1 37.7





#49

cis-1,3-Dichloropropene

Concen: 20.581 ug/l

RT: 10.312 min Scan# 1421

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

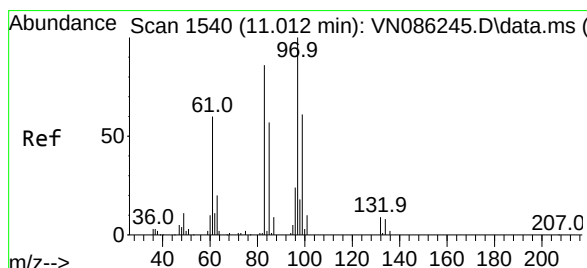
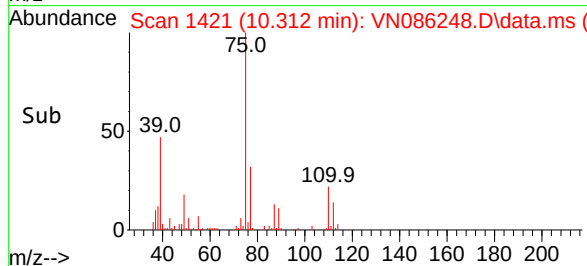
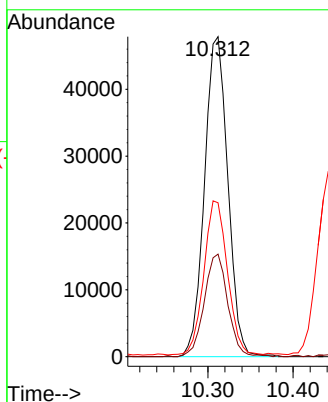
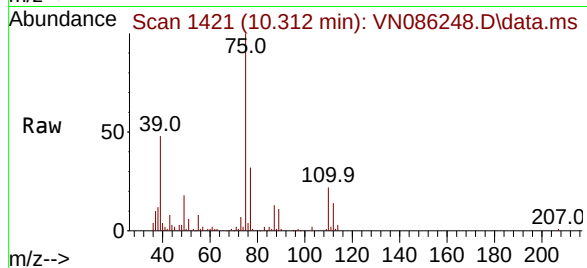
Tgt Ion: 75	Resp: 91089
Ion Ratio	Lower Upper
75 100	
77 32.1	25.0 37.4
39 47.4	36.7 55.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#50

1,1,2-Trichloroethane

Concen: 19.741 ug/l

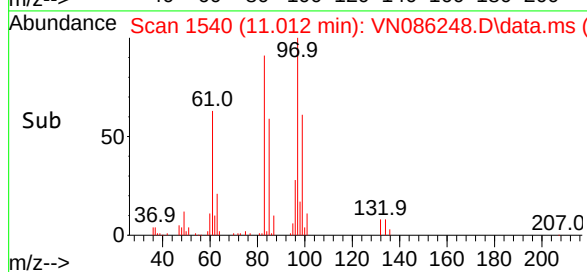
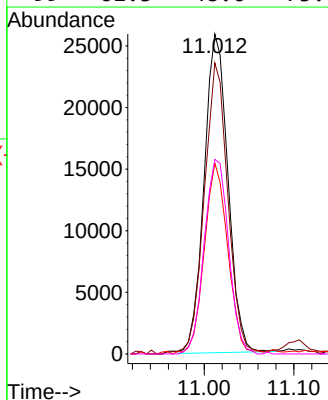
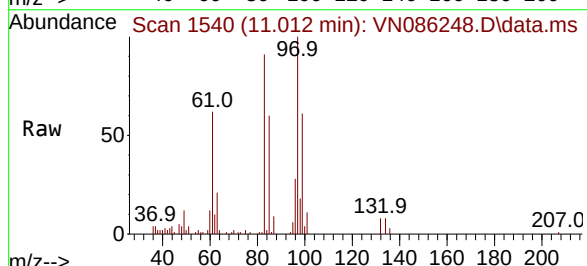
RT: 11.012 min Scan# 1540

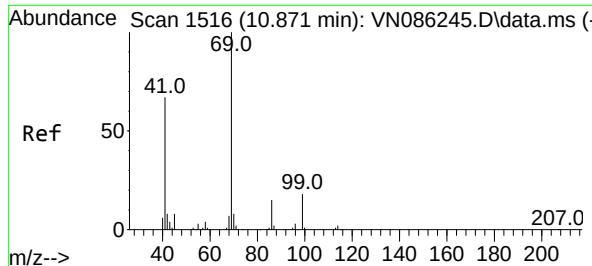
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

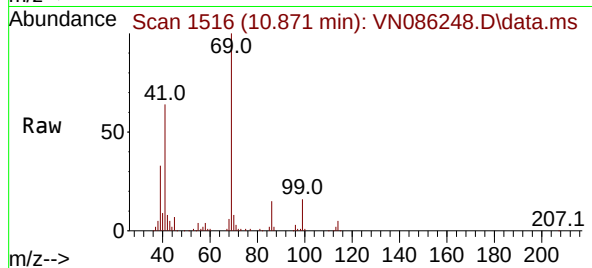
Tgt Ion: 97	Resp: 47672
Ion Ratio	Lower Upper
97 100	
83 90.8	68.6 103.0
85 59.4	45.9 68.9
99 61.3	48.6 73.0





#51
Ethyl methacrylate
Concen: 20.259 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

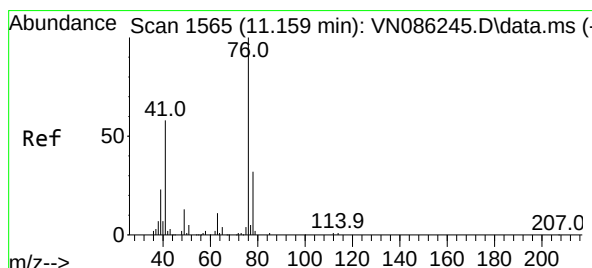
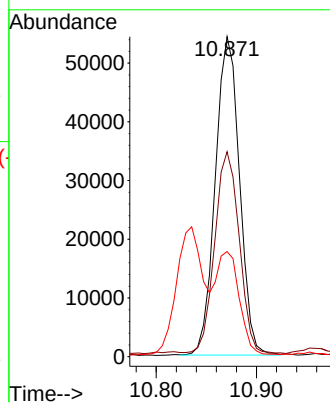
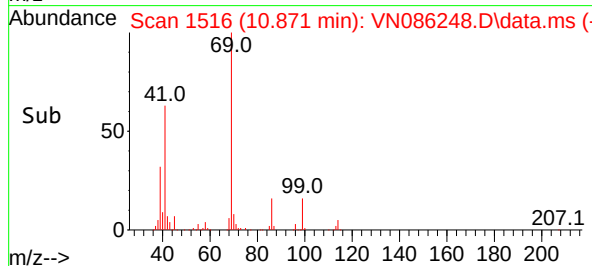
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 69 Resp: 90910
Ion Ratio Lower Upper
69 100
41 63.2 33.6 100.6
39 32.3 17.8 53.4

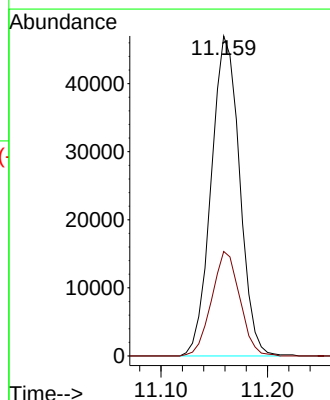
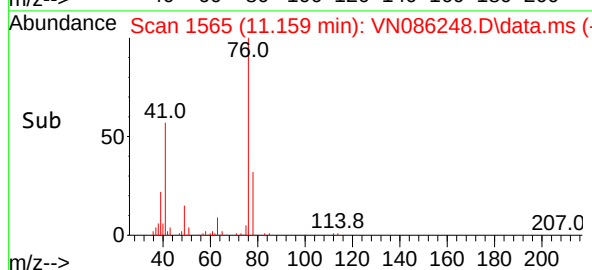
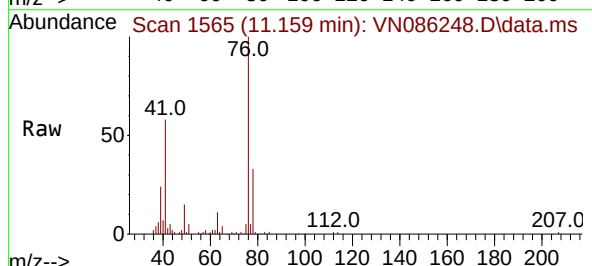
Manual Integrations
APPROVED

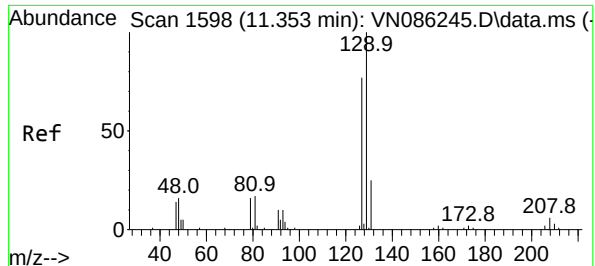
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#52
1,3-Dichloropropane
Concen: 20.216 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

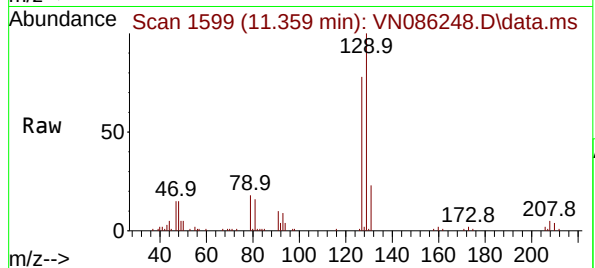
Tgt Ion: 76 Resp: 87015
Ion Ratio Lower Upper
76 100
78 32.4 0.0 64.6





#53
Dibromochloromethane
Concen: 19.923 ug/l
RT: 11.359 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

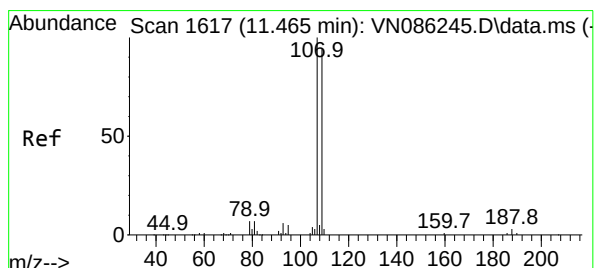
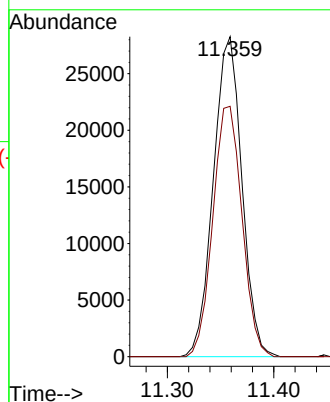
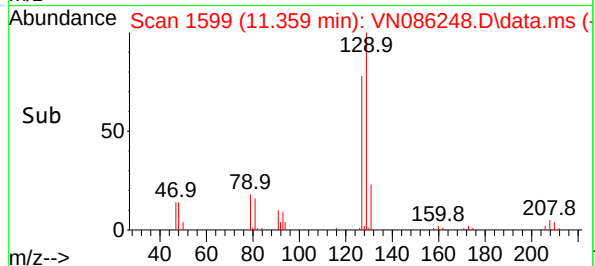
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



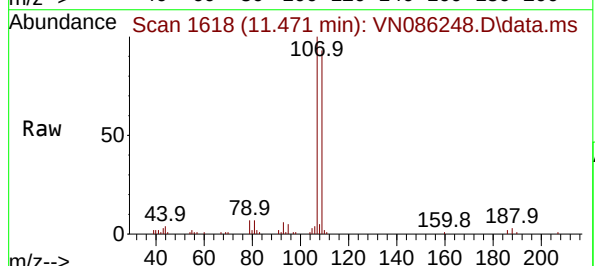
Tgt Ion:129 Resp: 52628
Ion Ratio Lower Upper
129 100
127 79.9 38.5 115.5

Manual Integrations
APPROVED

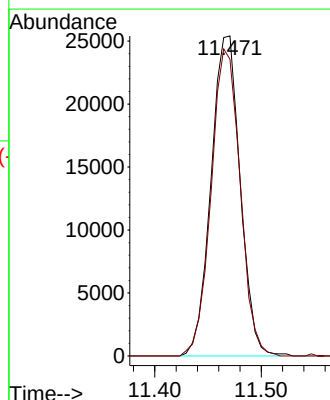
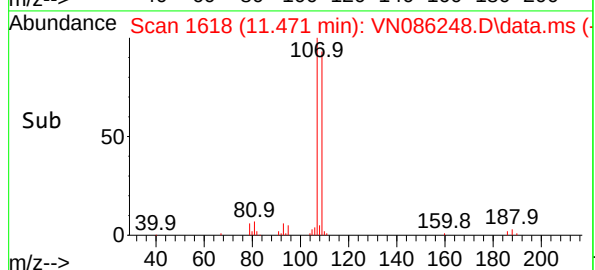
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

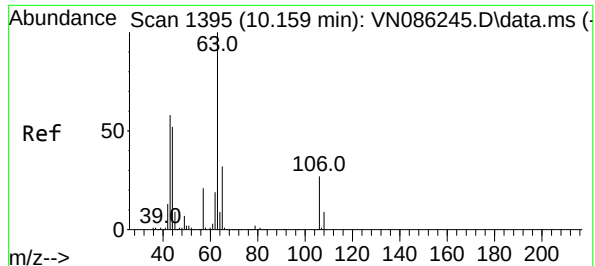


#54
1,2-Dibromoethane
Concen: 19.762 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34



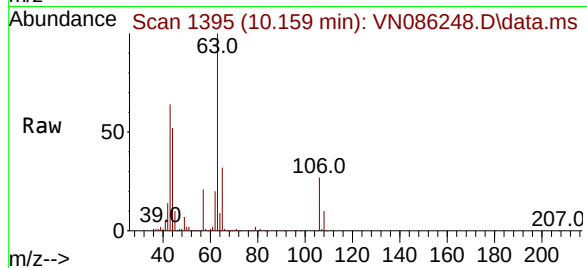
Tgt Ion:107 Resp: 48175
Ion Ratio Lower Upper
107 100
109 95.6 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 132.990 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

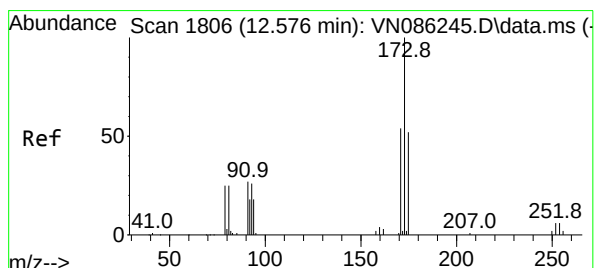
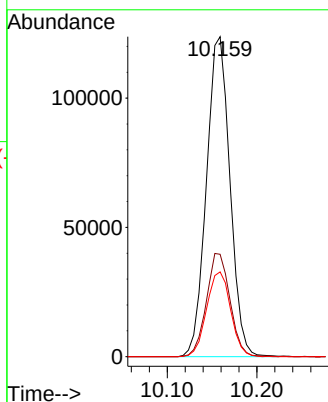
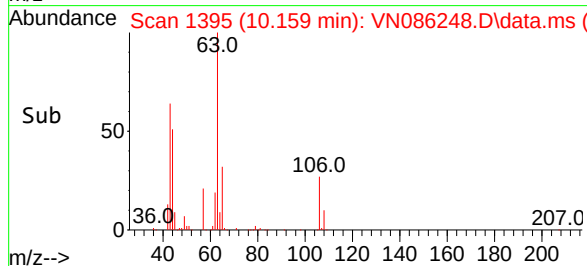
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 63 Resp: 22552
Ion Ratio Lower Upper
63 100
65 32.2 25.8 38.8
106 27.0 21.8 32.8

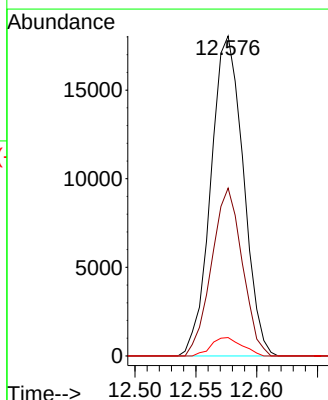
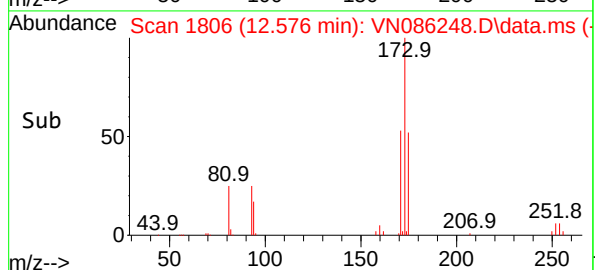
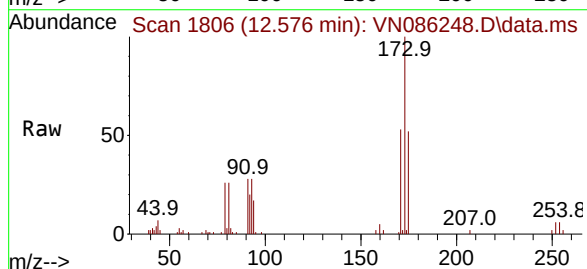
Manual Integrations
APPROVED

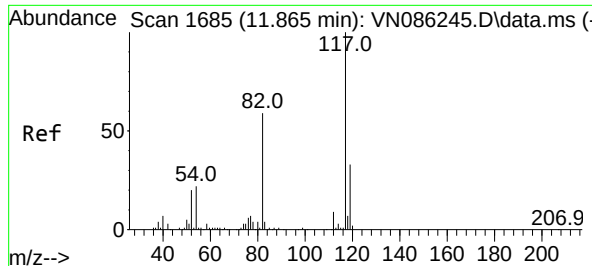
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#56
Bromoform
Concen: 19.359 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

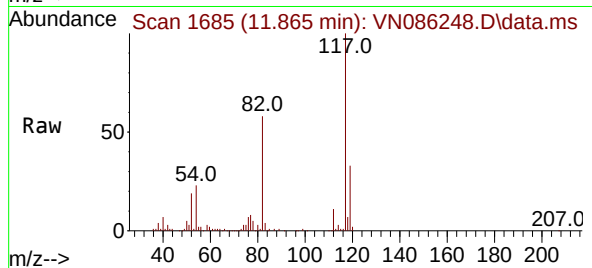
Tgt Ion:173 Resp: 33456
Ion Ratio Lower Upper
173 100
175 49.7 38.2 57.4
254 5.5 4.5 6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

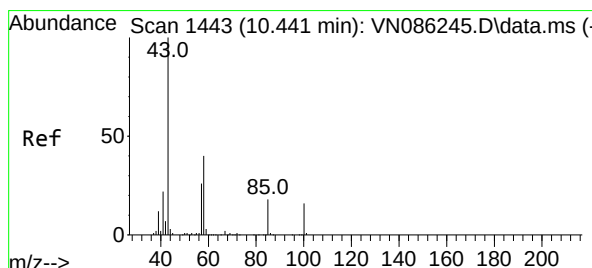
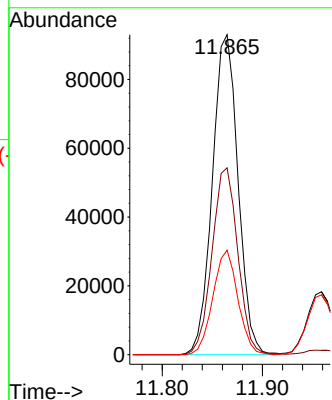
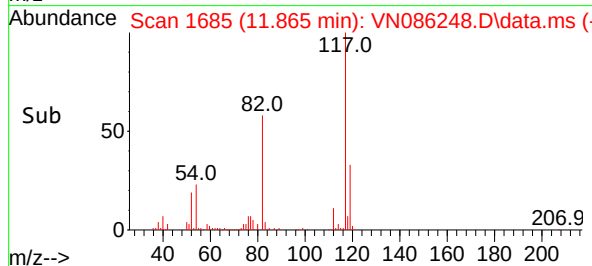
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 117 Resp: 16572
Ion Ratio Lower Upper
117 100
82 58.7 47.3 70.9
119 31.7 25.9 38.9

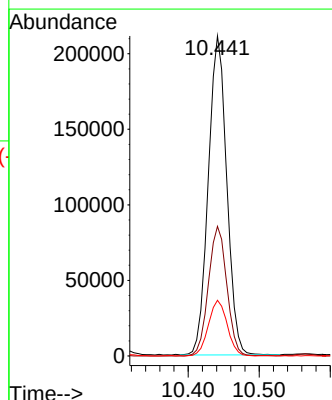
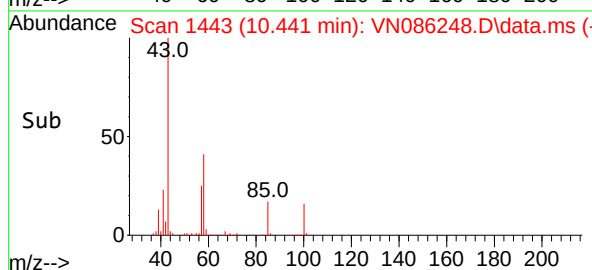
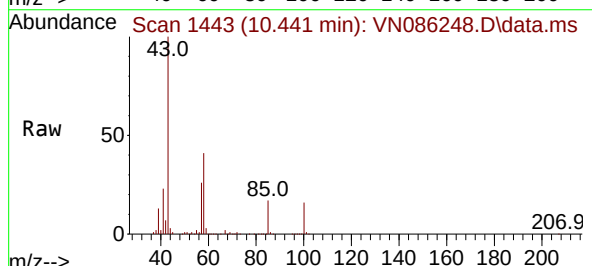
Manual Integrations
APPROVED

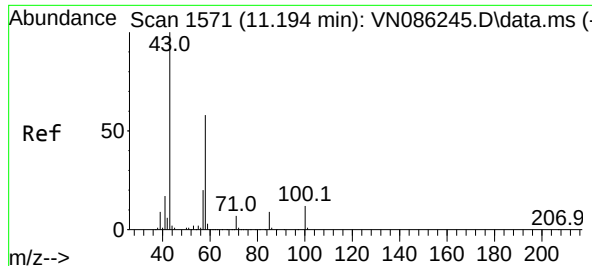
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#58
4-Methyl-2-Pentanone
Concen: 101.329 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

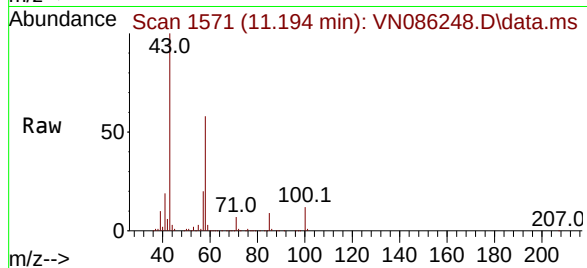
Tgt Ion: 43 Resp: 381072
Ion Ratio Lower Upper
43 100
58 40.6 32.5 48.7
85 17.8 14.4 21.6





#59
2-Hexanone
Concen: 101.451 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

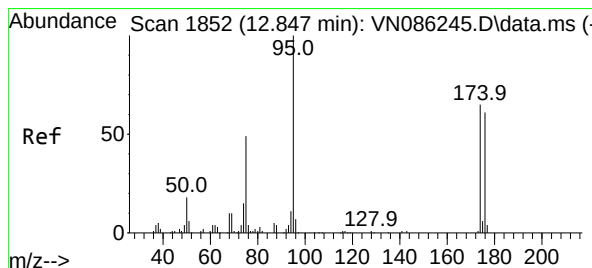
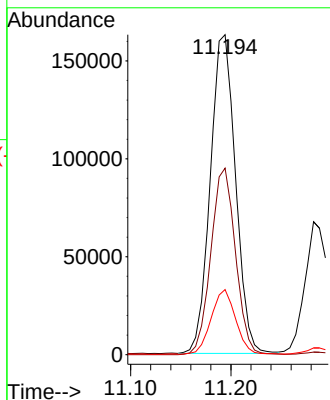
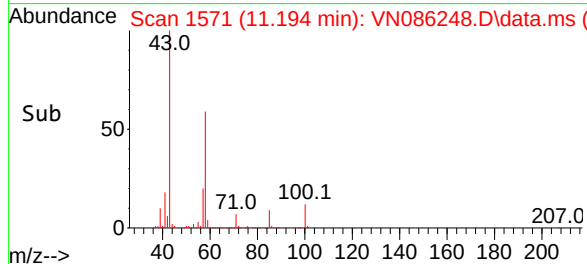
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 43 Resp: 284098
Ion Ratio Lower Upper
43 100
58 57.1 45.3 67.9
57 19.4 15.8 23.6

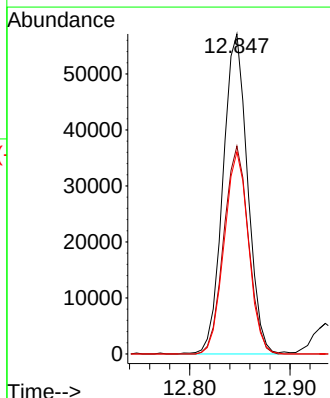
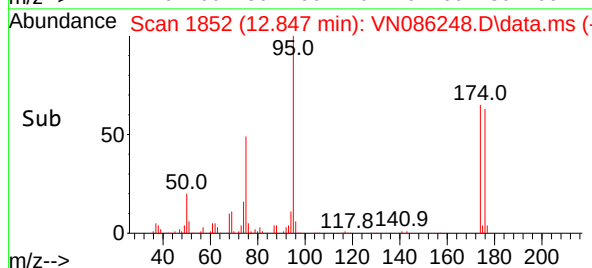
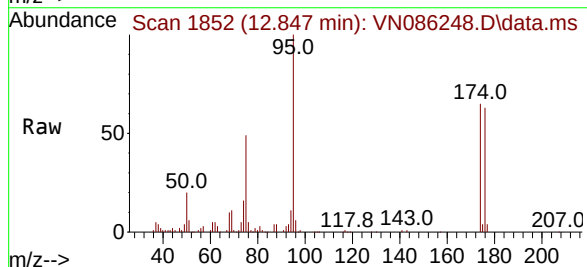
Manual Integrations
APPROVED

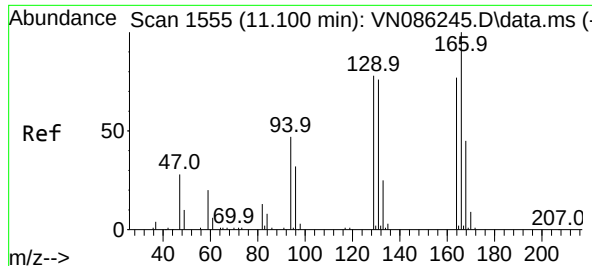
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#60
4-Bromofluorobenzene
Concen: 29.482 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

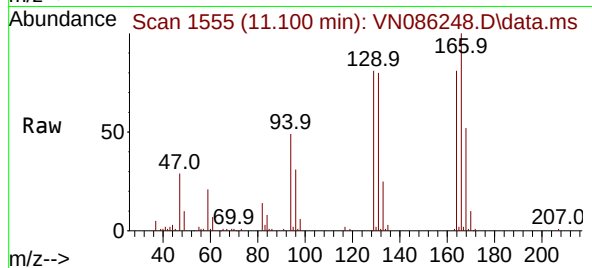
Tgt Ion: 95 Resp: 97275
Ion Ratio Lower Upper
95 100
174 65.2 52.7 79.1
176 62.4 49.8 74.8





#61
Tetrachloroethene
Concen: 20.169 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

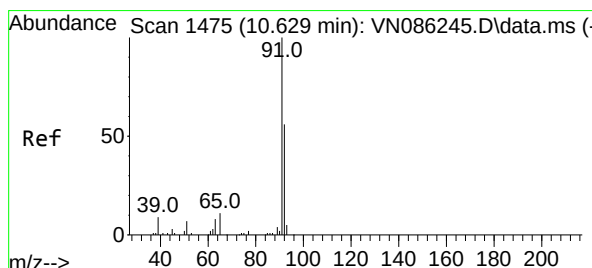
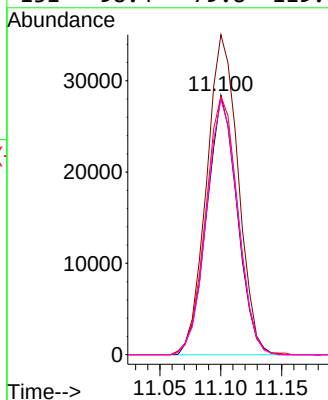
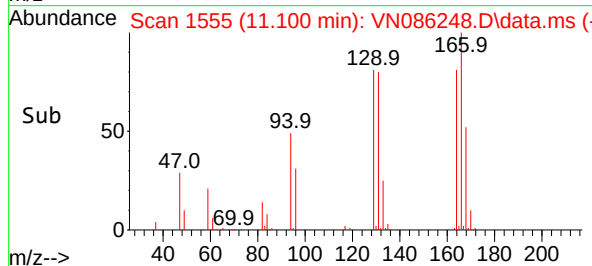
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:164 Resp: 49360
Ion Ratio Lower Upper
164 100
166 122.8 104.5 156.7
129 99.1 81.7 122.5
131 98.4 79.8 119.6

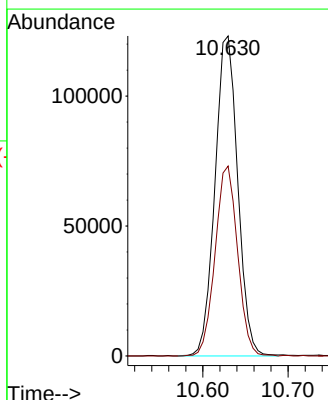
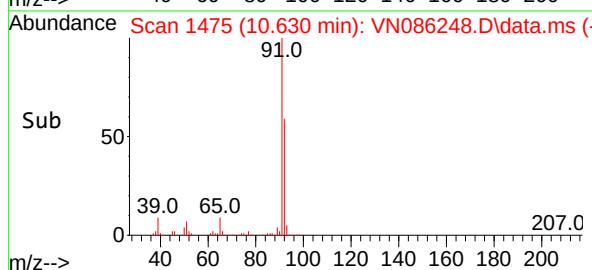
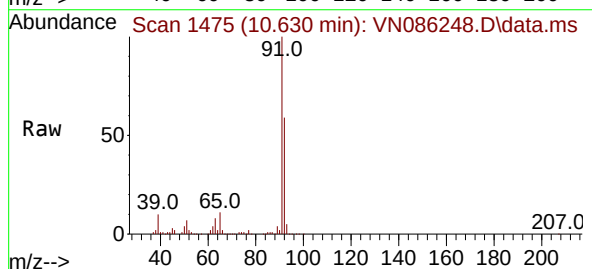
Manual Integrations
APPROVED

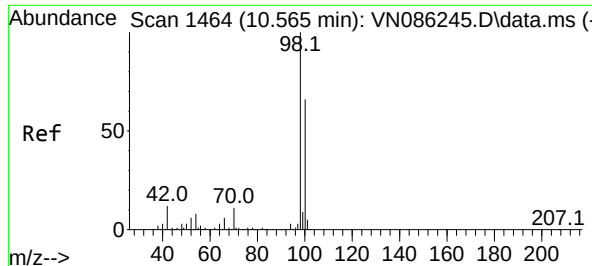
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#62
Toluene
Concen: 20.568 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

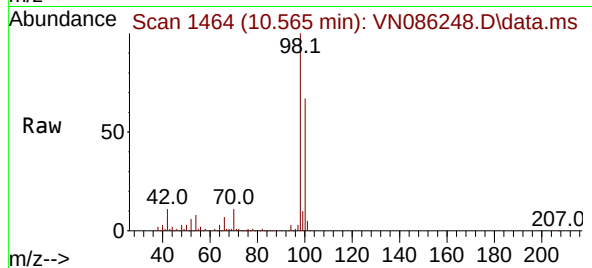
Tgt Ion: 91 Resp: 228625
Ion Ratio Lower Upper
91 100
92 58.6 46.8 70.2





#63
Toluene-d8
Concen: 29.890 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

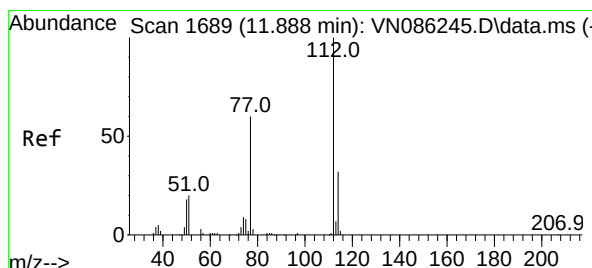
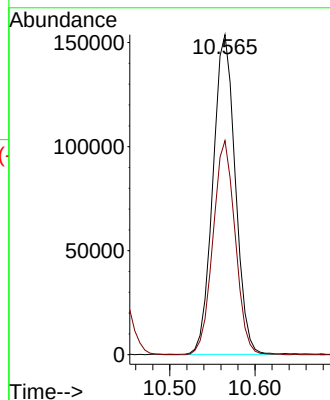
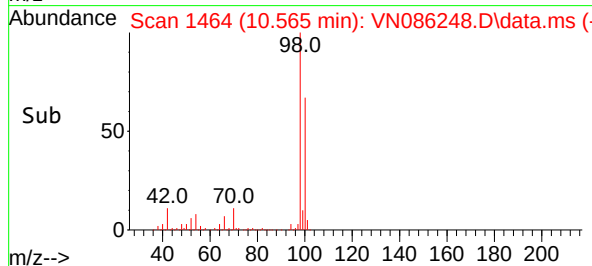
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion: 98 Resp: 279650
Ion Ratio Lower Upper
98 100
100 66.6 52.3 78.5

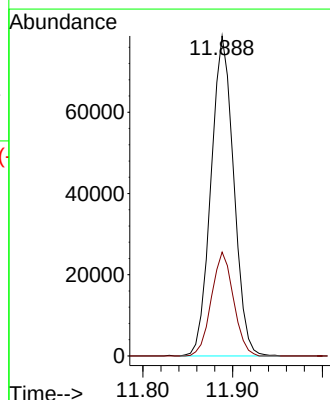
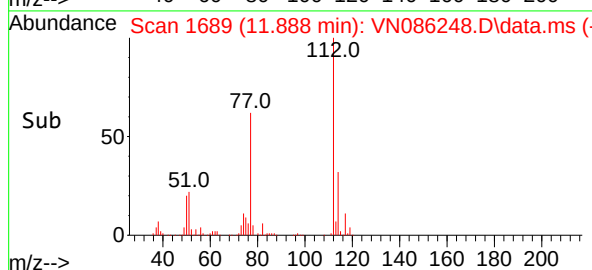
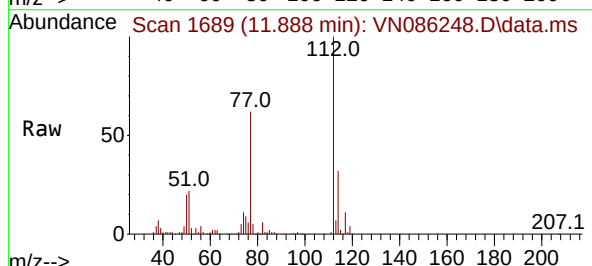
Manual Integrations
APPROVED

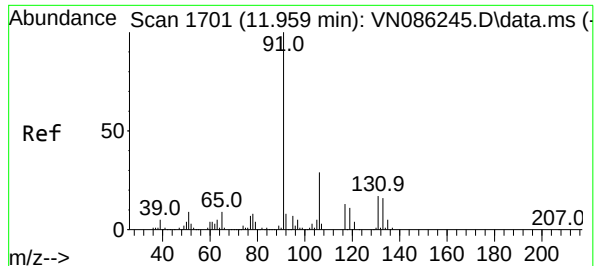
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#64
Chlorobenzene
Concen: 20.424 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

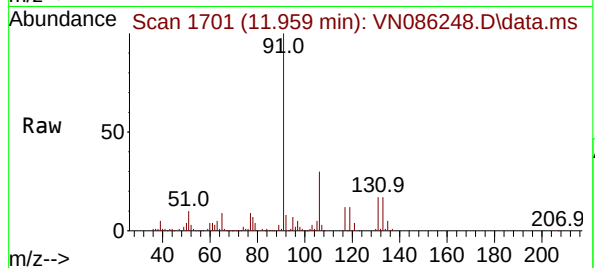
Tgt Ion:112 Resp: 138700
Ion Ratio Lower Upper
112 100
114 32.5 25.8 38.6





#65
1,1,1,2-Tetrachloroethane
Concen: 20.546 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

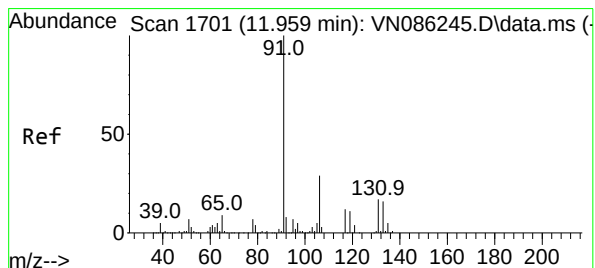
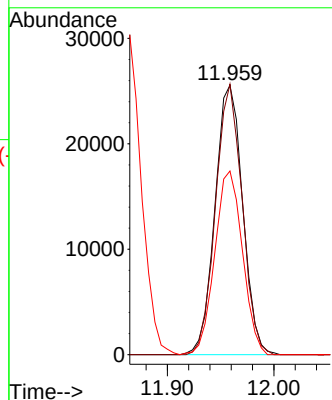
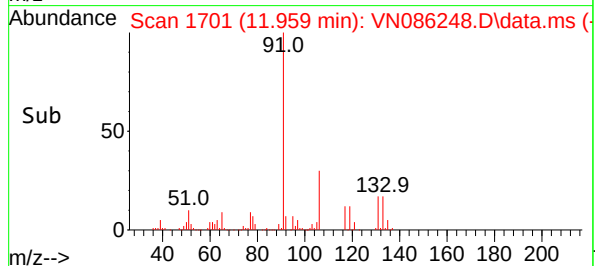
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:131 Resp: 46048
Ion Ratio Lower Upper
131 100
133 96.3 0.0 190.4
119 68.4 0.0 135.6

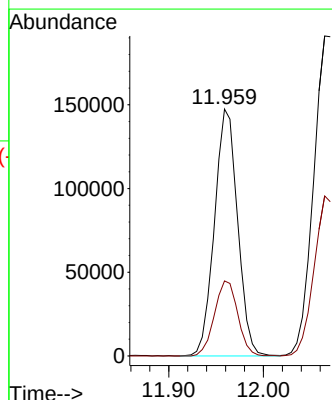
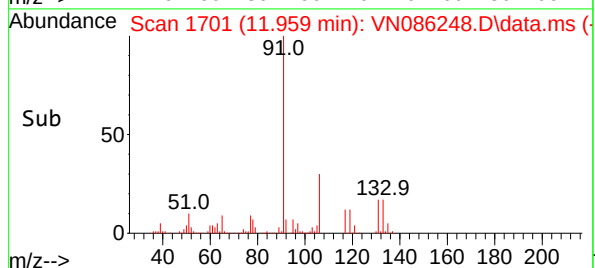
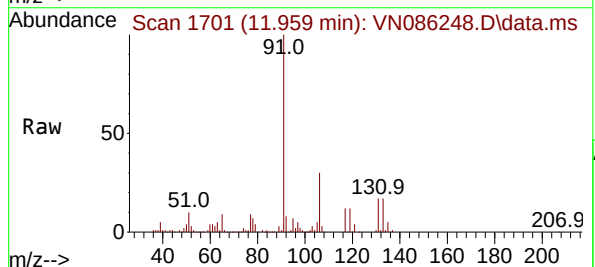
Manual Integrations
APPROVED

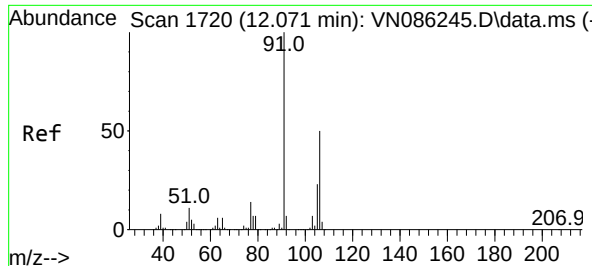
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#66
Ethyl Benzene
Concen: 20.336 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

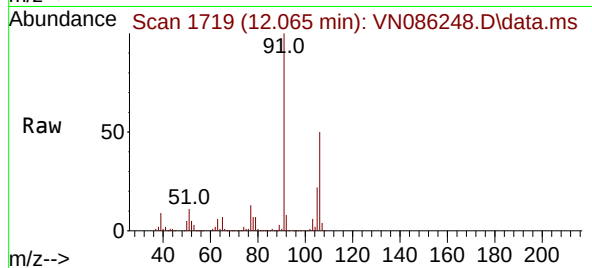
Tgt Ion: 91 Resp: 250686
Ion Ratio Lower Upper
91 100
106 30.4 23.4 35.0





#67
m/p-Xylenes
Concen: 40.633 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

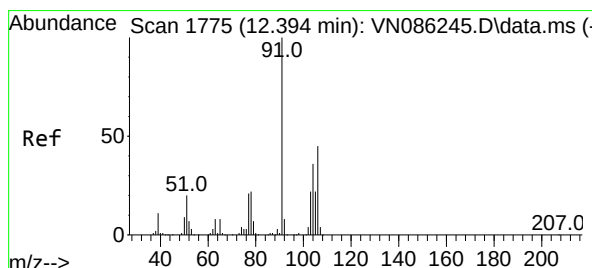
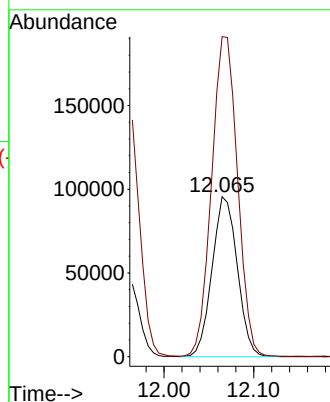
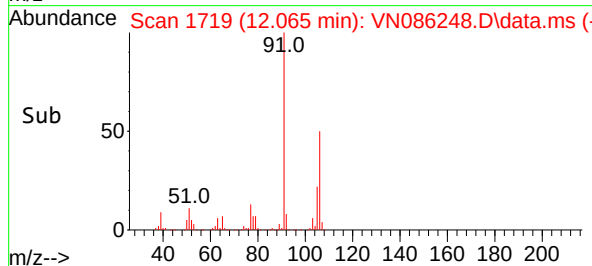
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:106 Resp: 18624
Ion Ratio Lower Upper
106 100
91 205.6 164.5 246.7

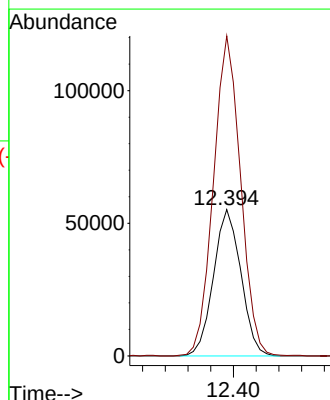
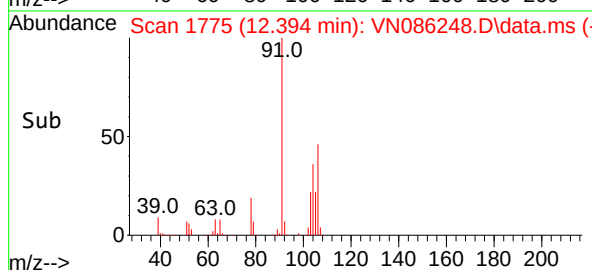
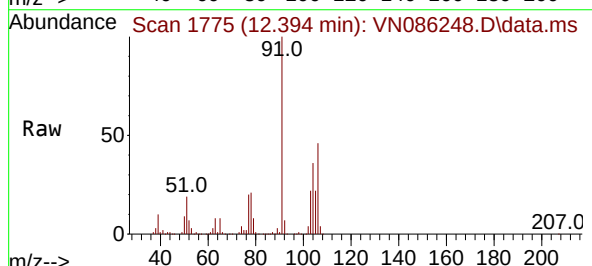
Manual Integrations
APPROVED

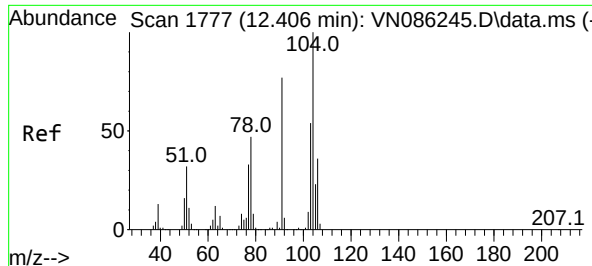
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#68
o-Xylene
Concen: 20.528 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

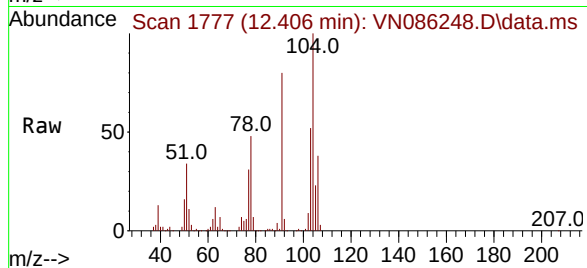
Tgt Ion:106 Resp: 92550
Ion Ratio Lower Upper
106 100
91 216.2 109.8 329.4





#69
Styrene
Concen: 20.281 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

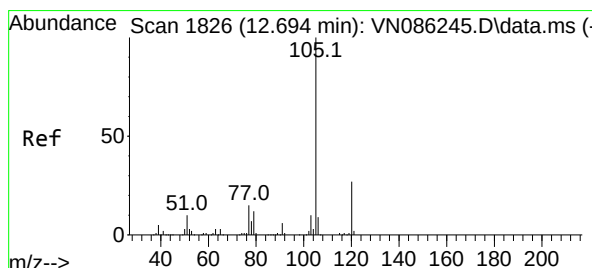
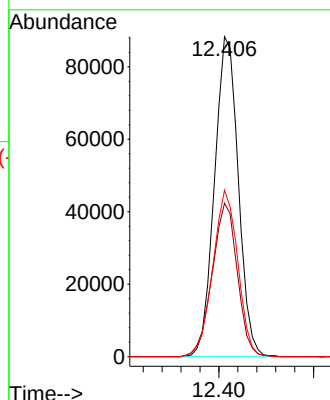
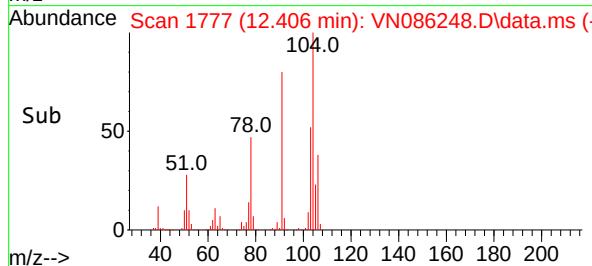
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:104 Resp: 154208
Ion Ratio Lower Upper
104 100
78 50.6 41.4 62.0
103 54.6 44.2 66.4

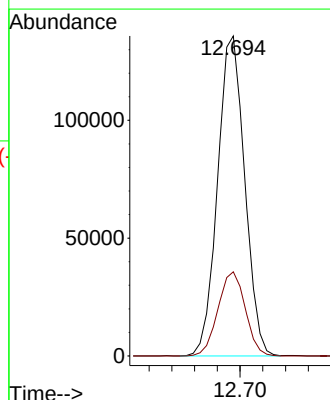
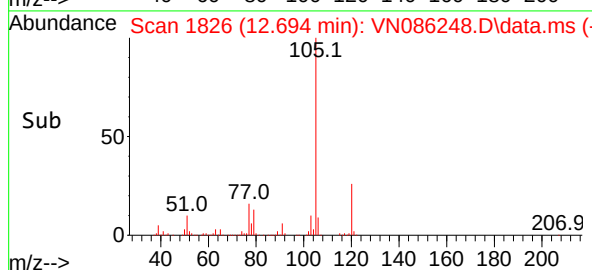
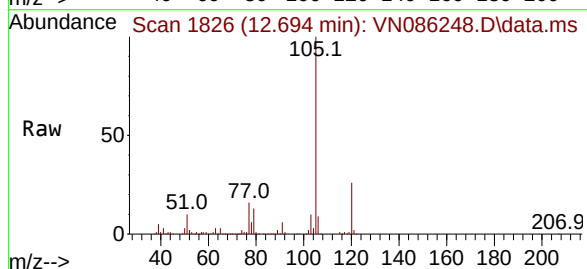
Manual Integrations
APPROVED

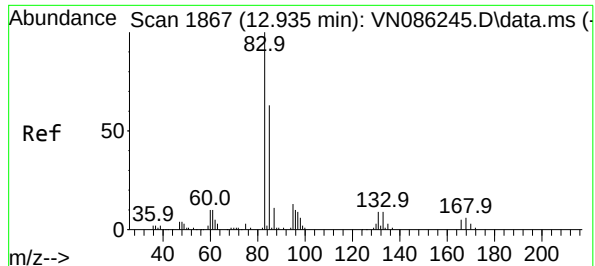
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#70
Isopropylbenzene
Concen: 20.275 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:105 Resp: 225389
Ion Ratio Lower Upper
105 100
120 26.4 18.3 34.1





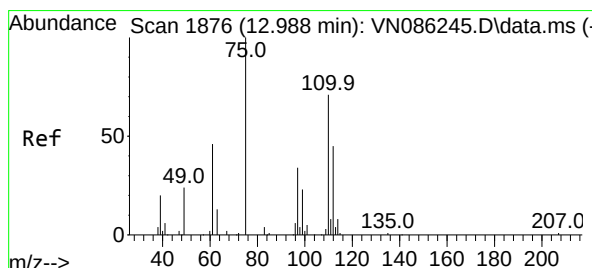
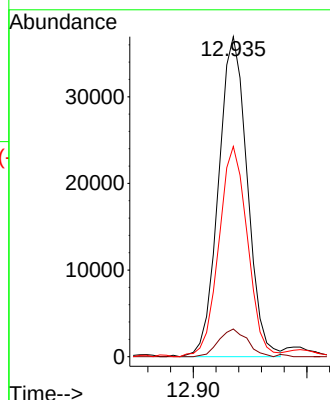
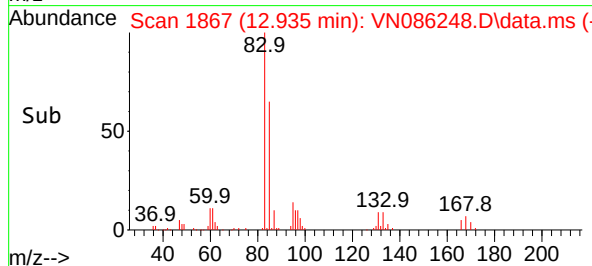
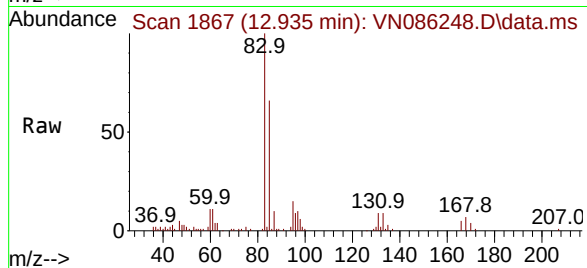
#71
1,1,2-Tetrachloroethane
Concen: 20.516 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion: 83 Resp: 64915
Ion Ratio Lower Upper
83 100
131 8.6 4.8 14.3
85 65.4 32.3 96.8

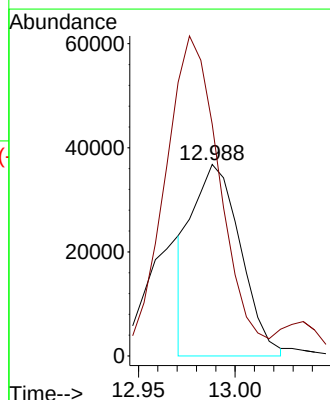
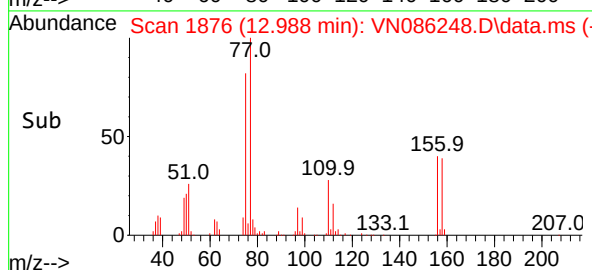
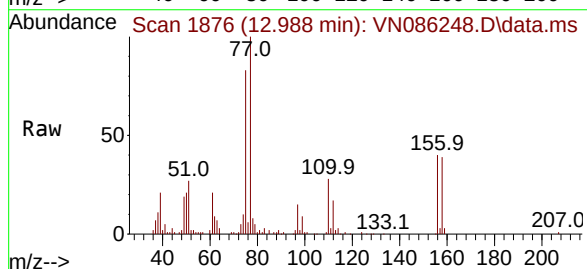
Manual Integrations
APPROVED

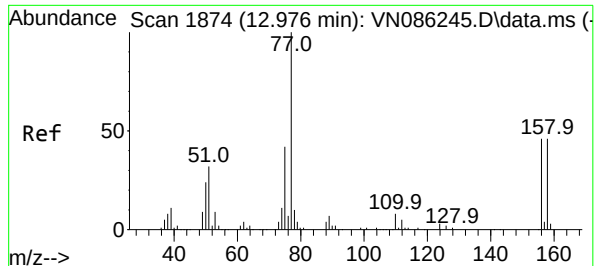
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#72
1,2,3-Trichloropropane
Concen: 19.534 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

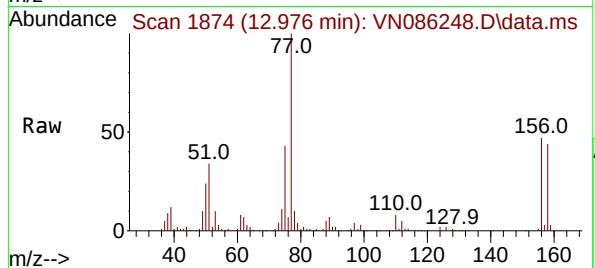
Tgt Ion: 75 Resp: 64339
Ion Ratio Lower Upper
75 100
77 191.4 0.0 380.0





#73
Bromobenzene
Concen: 19.870 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

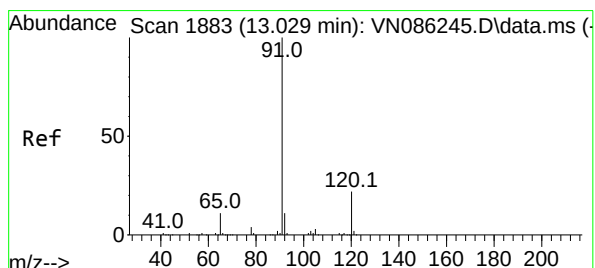
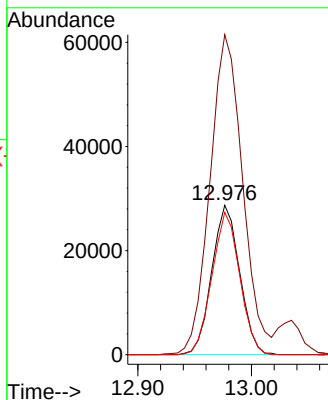
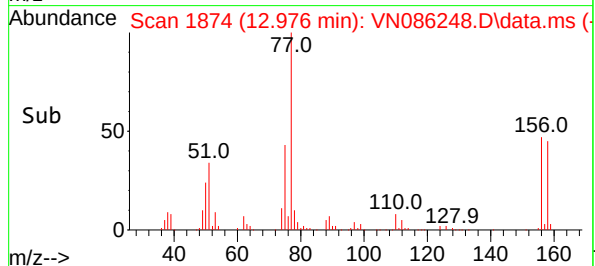
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:156 Resp: 48932
Ion Ratio Lower Upper
156 100
77 251.7 0.0 505.2
158 95.0 0.0 195.0

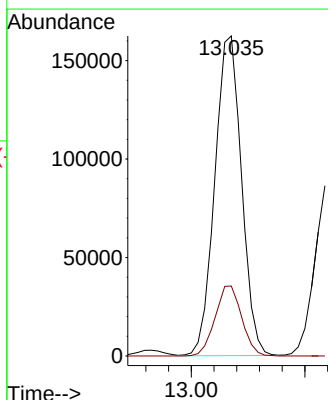
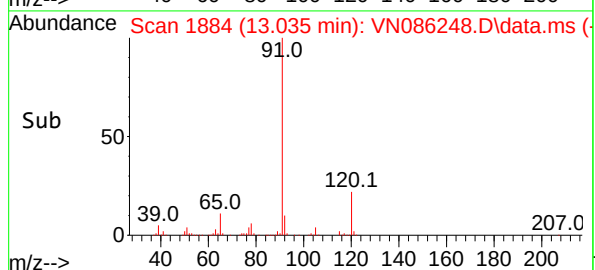
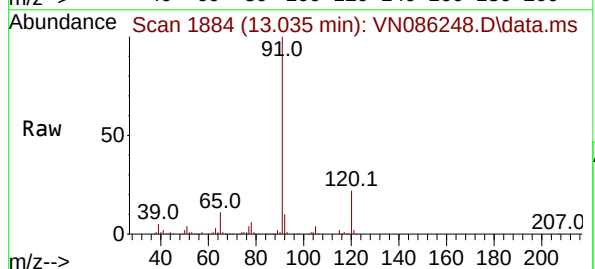
Manual Integrations
APPROVED

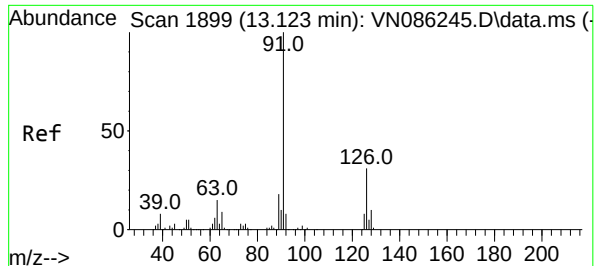
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#74
n-propylbenzene
Concen: 20.227 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion: 91 Resp: 265507
Ion Ratio Lower Upper
91 100
120 21.8 0.0 44.0





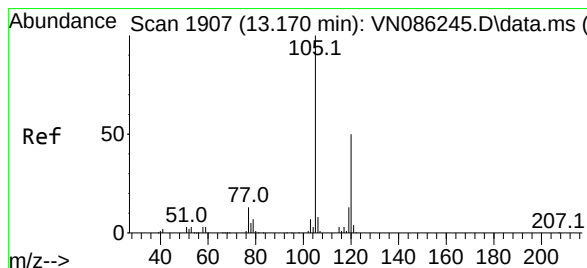
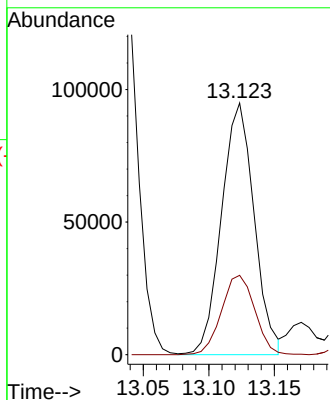
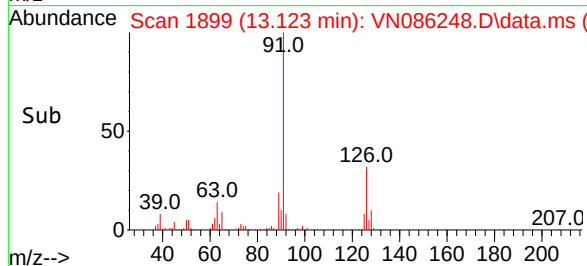
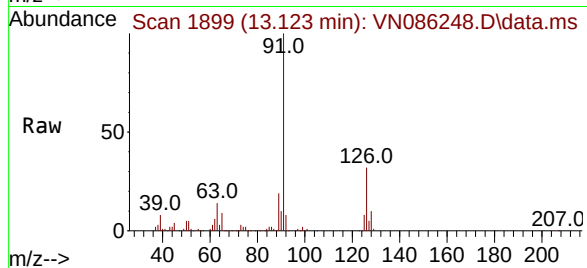
#75
2-Chlorotoluene
Concen: 19.943 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion: 91 Resp: 164538
Ion Ratio Lower Upper
91 100
126 32.1 0.0 63.4

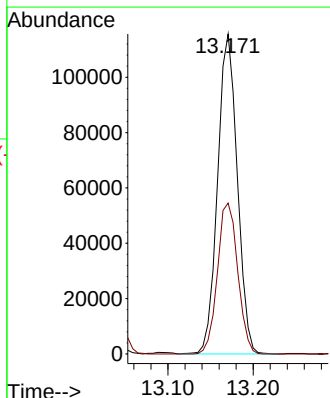
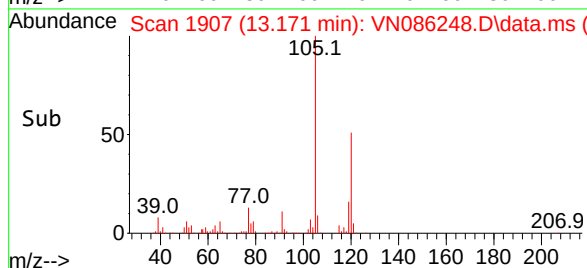
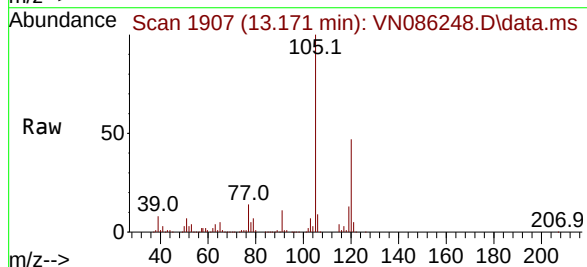
Manual Integrations
APPROVED

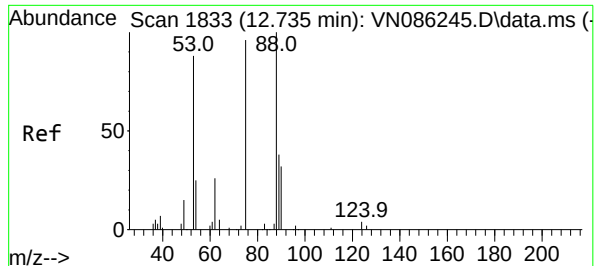
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#76
1,3,5-Trimethylbenzene
Concen: 20.354 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:105 Resp: 185869
Ion Ratio Lower Upper
105 100
120 48.5 0.0 98.0





#77

t-1,4-Dichloro-2-butene

Concen: 19.590 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

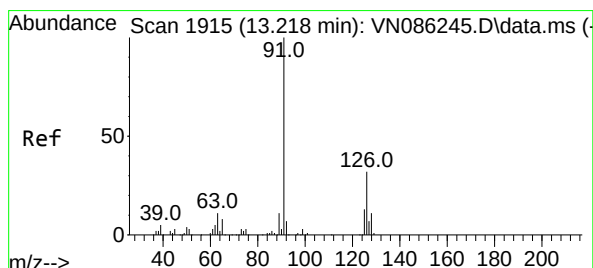
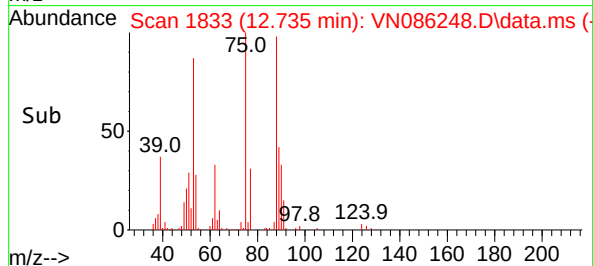
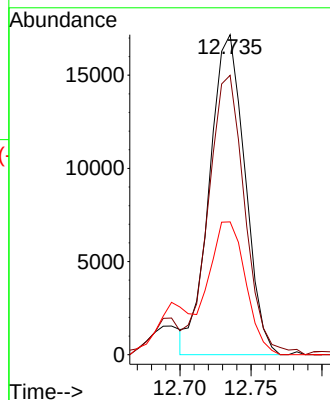
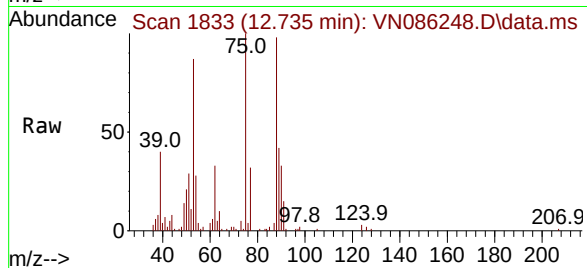
Tgt Ion	75	Resp:	29750
Ion	Ratio	Lower	Upper
75	100		
53	85.0	46.4	139.2
89	41.5	22.5	67.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#78

4-Chlorotoluene

Concen: 19.528 ug/l

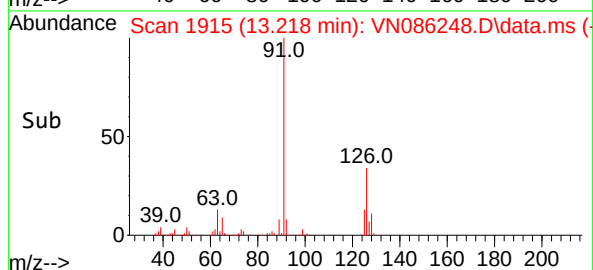
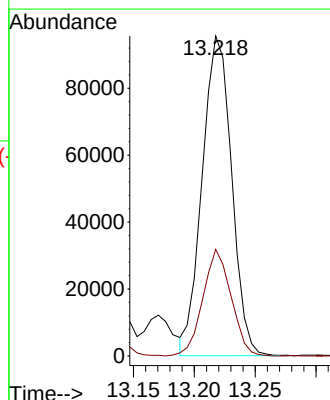
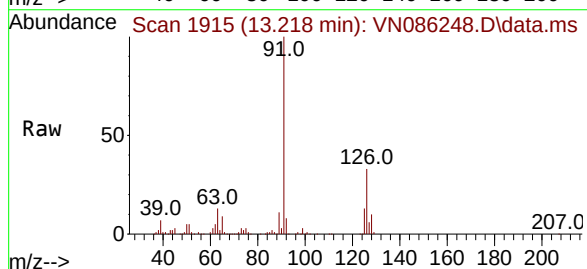
RT: 13.218 min Scan# 1915

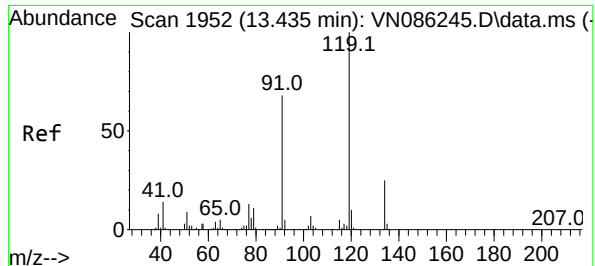
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

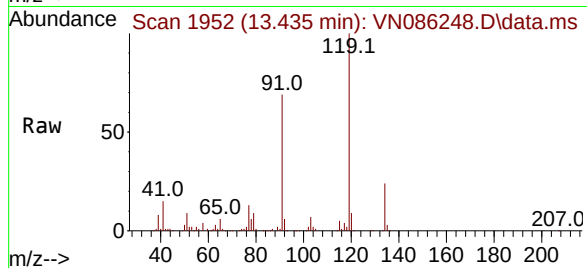
Tgt Ion	91	Resp:	160908
Ion	Ratio	Lower	Upper
91	100		
126	31.9	0.0	63.2





#79
tert-butylbenzene
Concen: 20.021 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

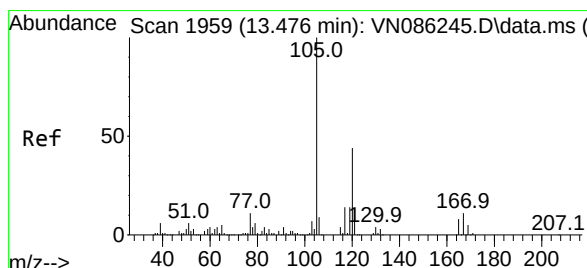
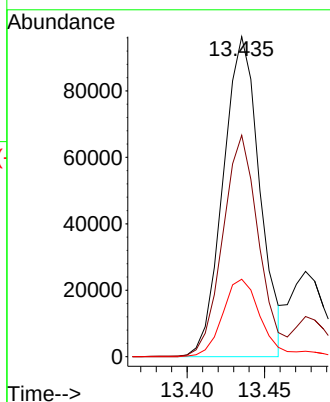
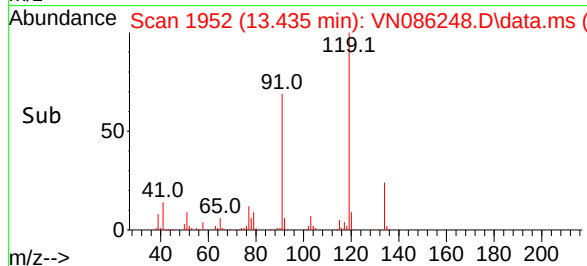
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



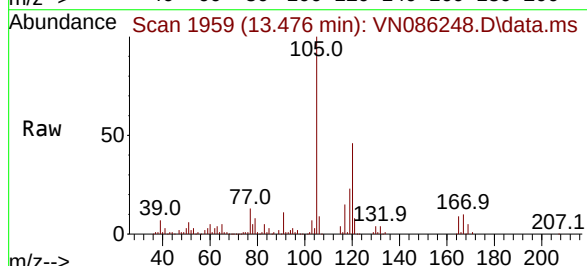
Tgt Ion:119 Resp: 158200
Ion Ratio Lower Upper
119 100
91 68.6 0.0 136.6
134 24.9 0.0 49.4

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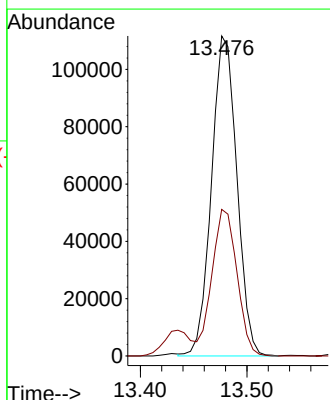
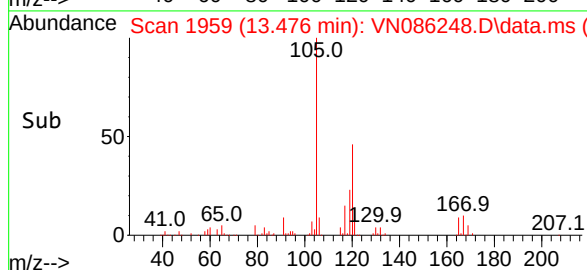
Reviewed By :John Carbone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025

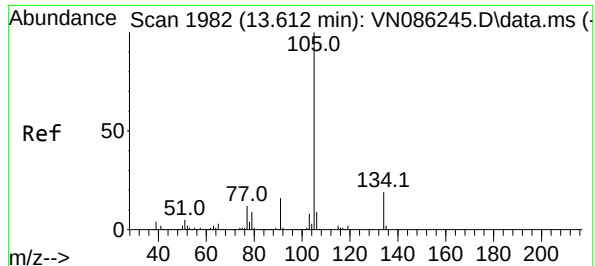


#80
1,2,4-Trimethylbenzene
Concen: 19.981 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34



Tgt Ion:105 Resp: 185022
Ion Ratio Lower Upper
105 100
120 44.9 0.0 91.0





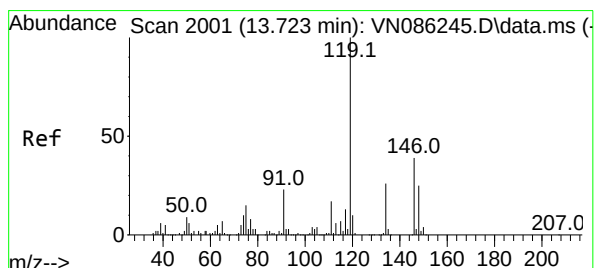
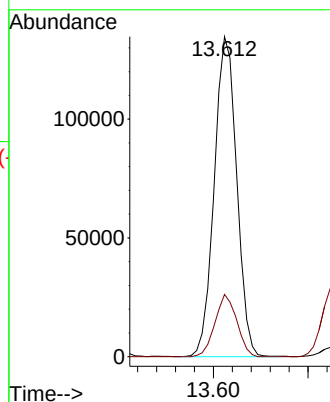
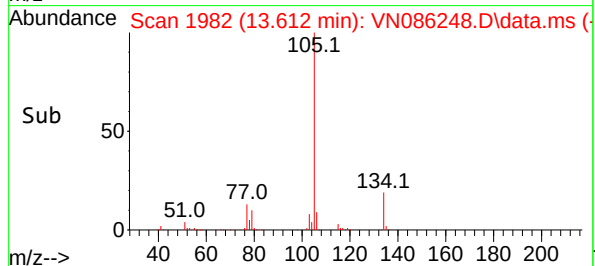
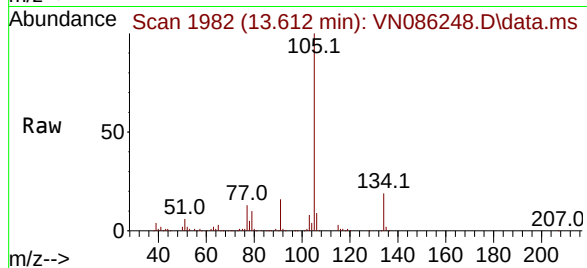
#81
sec-Butylbenzene
Concen: 20.145 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125

Tgt Ion:105 Resp: 22204
Ion Ratio Lower Upper
105 100
134 18.9 0.0 38.6

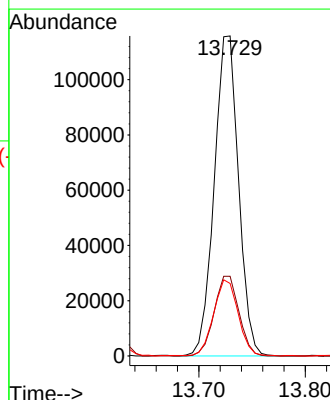
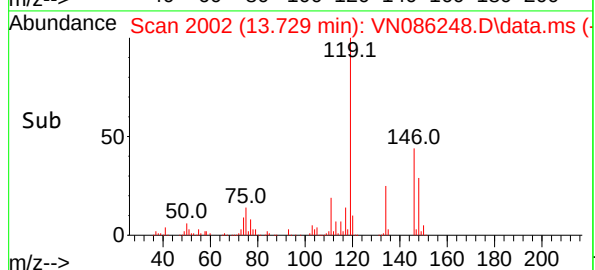
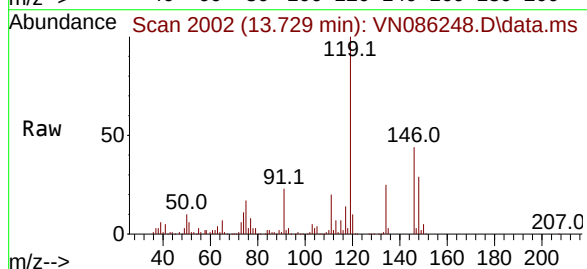
Manual Integrations
APPROVED

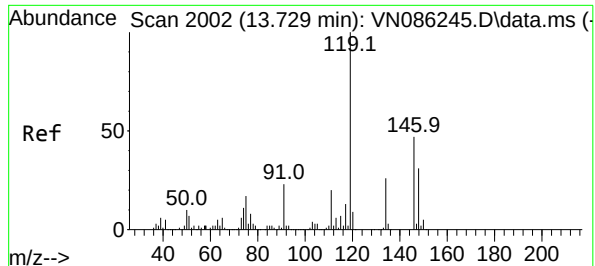
Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#82
p-Isopropyltoluene
Concen: 19.959 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:119 Resp: 183515
Ion Ratio Lower Upper
119 100
134 25.4 0.0 51.6
91 24.1 0.0 48.2





#83

1,3-Dichlorobenzene

Concen: 19.047 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN041125

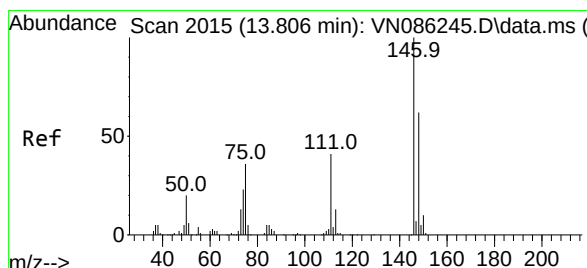
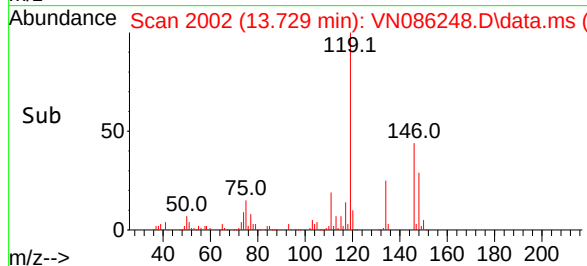
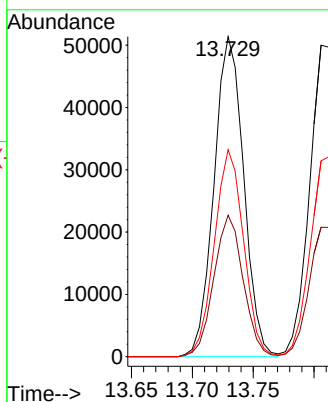
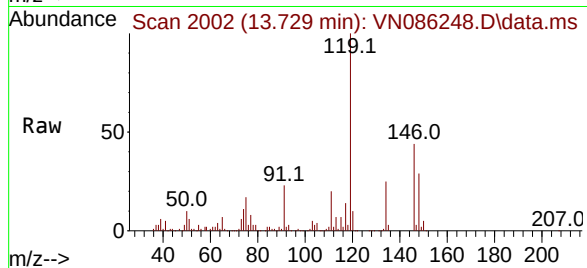
Tgt Ion:146	Resp:	87179
Ion Ratio	Lower	Upper
146	100	
111	43.7	21.7 65.1
148	63.7	32.3 96.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#84

1,4-Dichlorobenzene

Concen: 18.923 ug/l

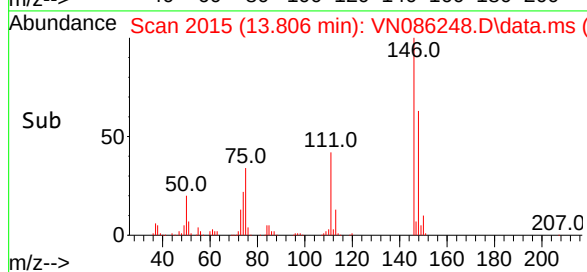
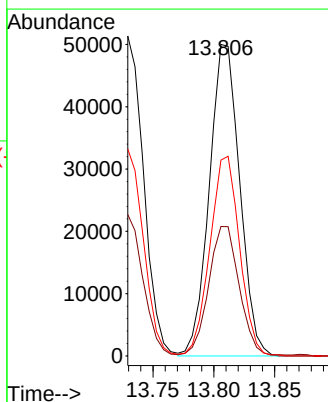
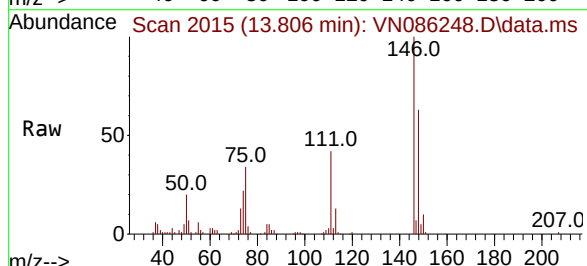
RT: 13.806 min Scan# 2015

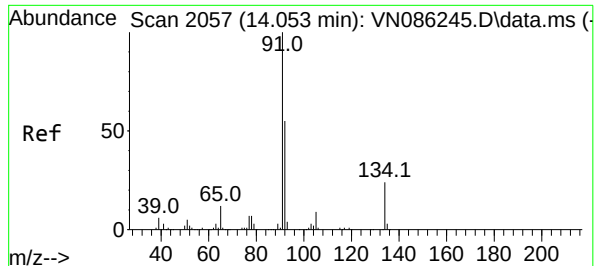
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Tgt Ion:146	Resp:	86888
Ion Ratio	Lower	Upper
146	100	
111	41.7	20.8 62.4
148	62.7	31.9 95.5





#85

n-Butylbenzene

Concen: 19.828 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

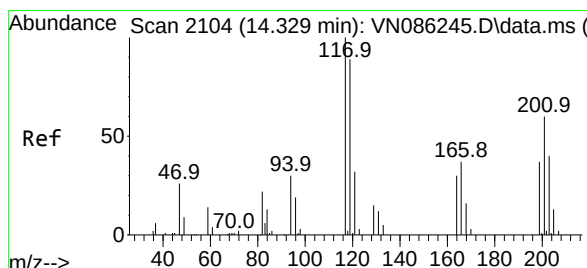
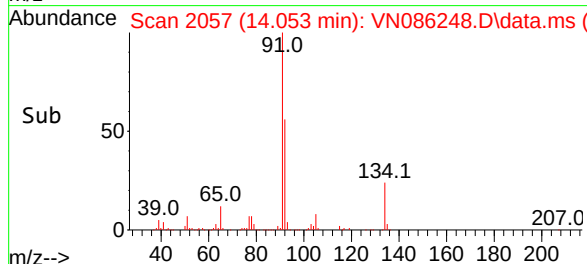
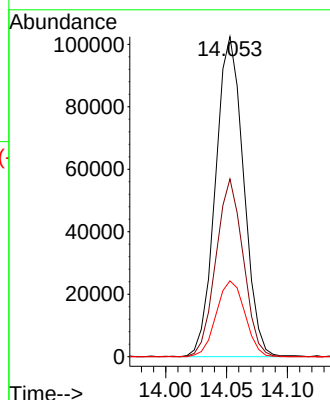
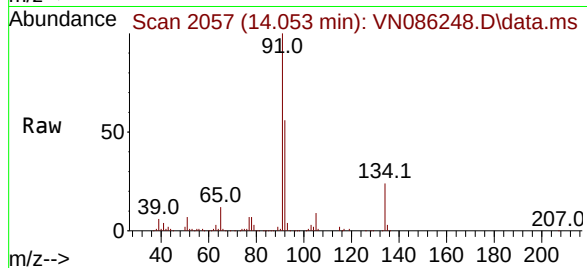
Tgt Ion:	91	Resp:	16447
Ion Ratio	Lower	Upper	
91	100		
92	53.9	0.0	109.4
134	24.1	0.0	48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#86

Hexachloroethane

Concen: 19.245 ug/l

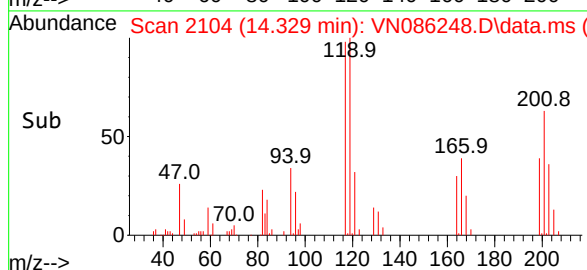
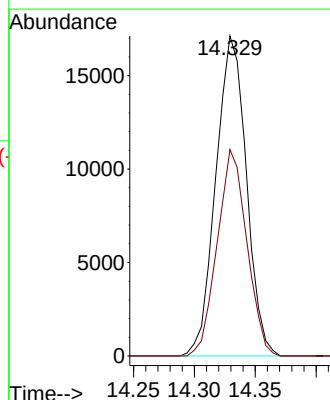
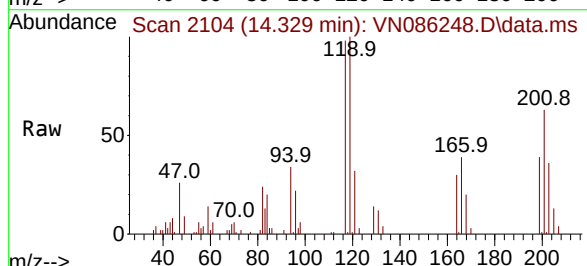
RT: 14.329 min Scan# 2104

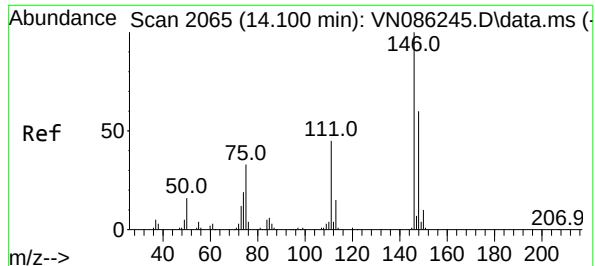
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Tgt Ion:	117	Resp:	29849
Ion Ratio	Lower	Upper	
117	100		
201	62.7	30.9	92.8





#87

1,2-Dichlorobenzene

Concen: 18.727 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

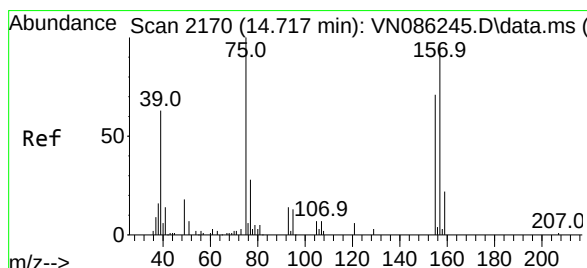
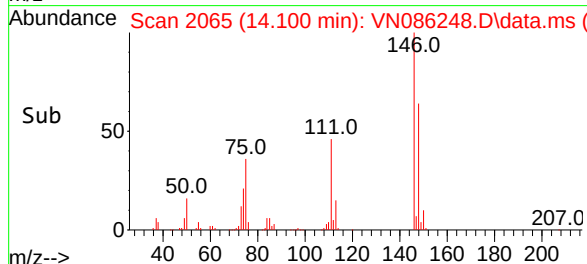
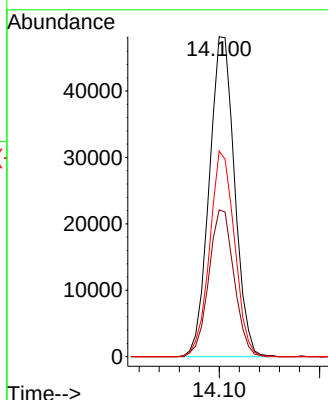
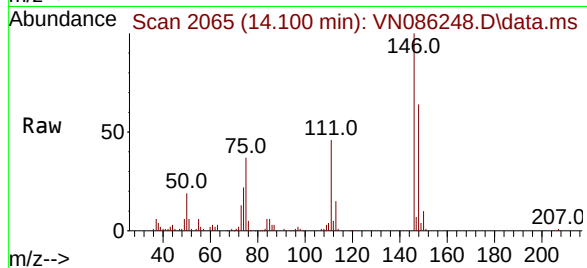
Tgt Ion:	146	Resp:	8463
Ion Ratio	Lower	Upper	
146	100		
111	45.8	22.7	68.0
148	63.1	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 18.109 ug/l

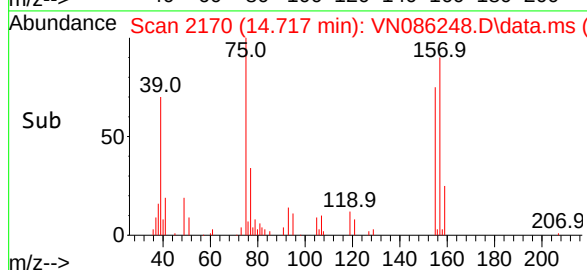
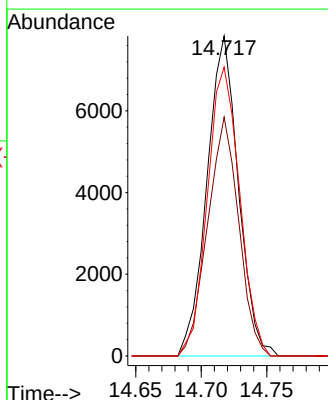
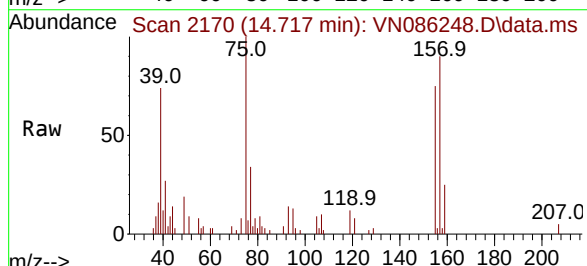
RT: 14.717 min Scan# 2170

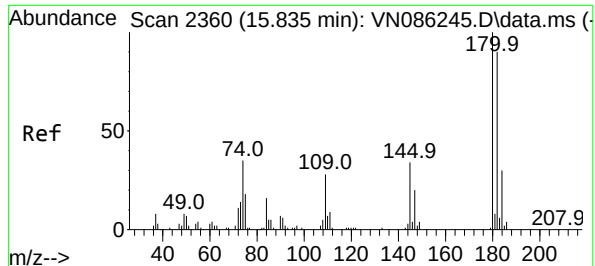
Delta R.T. 0.000 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Tgt Ion:	75	Resp:	13051
Ion Ratio	Lower	Upper	
75	100		
155	73.8	60.3	90.5
157	92.5	79.0	118.4





#89

1,2,4-Trichlorobenzene

Concen: 18.826 ug/l

RT: 15.841 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

Instrument :

MSVOA_N

ClientSampleId :

ICVVN041125

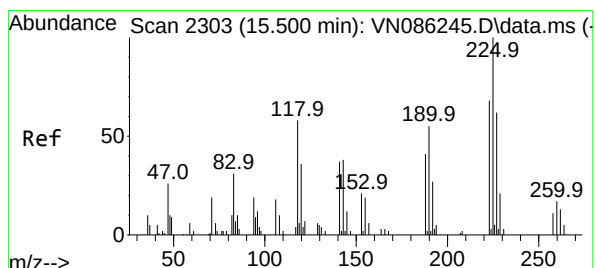
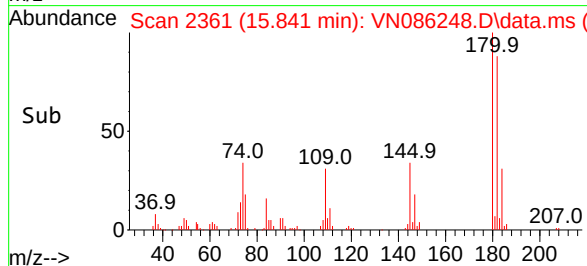
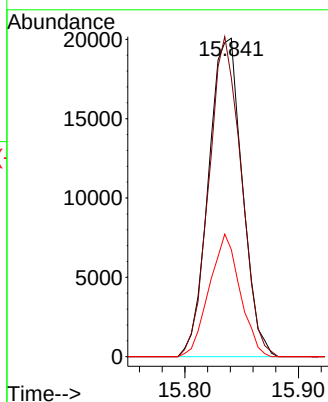
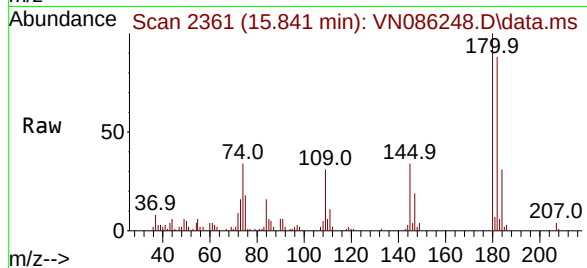
Tgt Ion:	180	Resp:	41390
Ion Ratio	Lower	Upper	
180	100		
182	96.3	75.1	112.7
145	35.2	27.1	40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/14/2025

Supervised By :Mahesh Dadoda 04/14/2025



#90

Hexachlorobutadiene

Concen: 17.262 ug/l

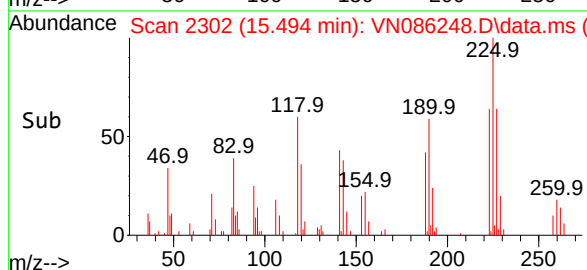
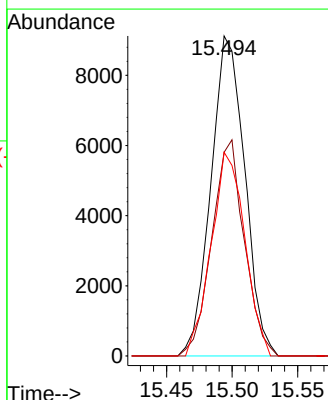
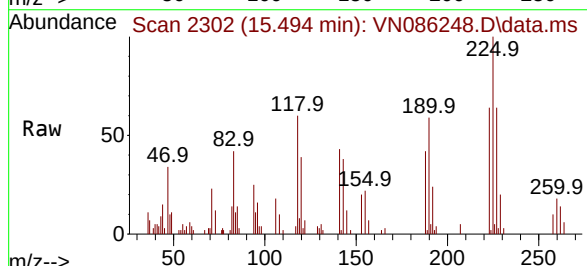
RT: 15.494 min Scan# 2302

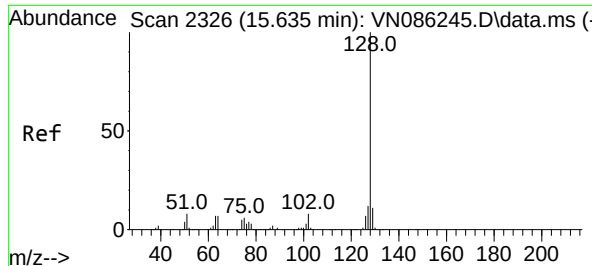
Delta R.T. -0.006 min

Lab File: VN086248.D

Acq: 11 Apr 2025 13:34

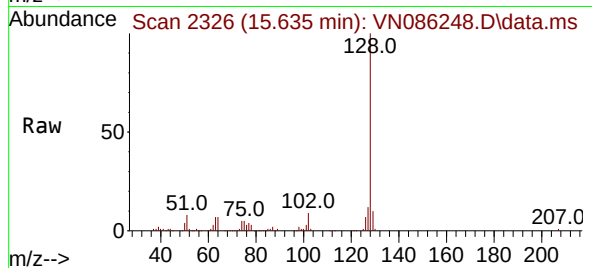
Tgt Ion:	225	Resp:	16389
Ion Ratio	Lower	Upper	
225	100		
223	64.7	0.0	130.0
227	63.3	0.0	123.2





#91
Naphthalene
Concen: 18.155 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

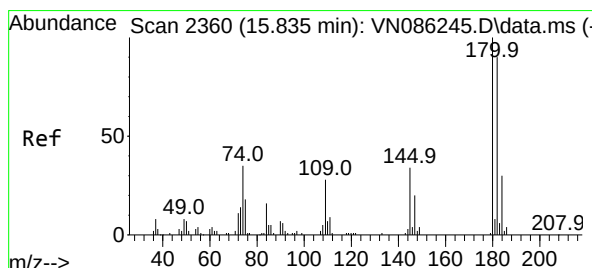
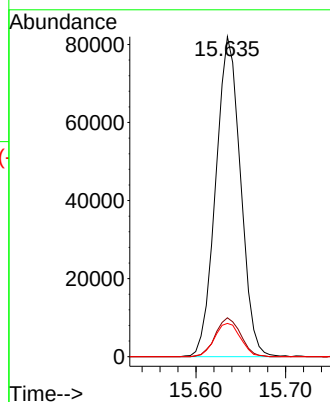
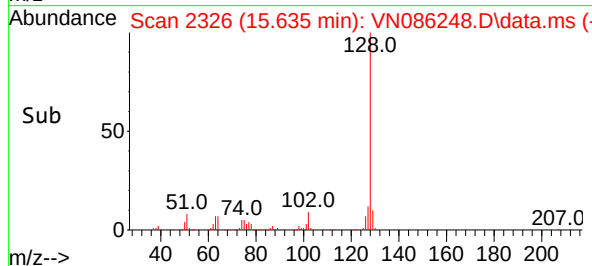
Instrument :
MSVOA_N
ClientSampleId :
ICVVN041125



Tgt Ion:128 Resp: 157404
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.2
129 10.9 8.8 13.2

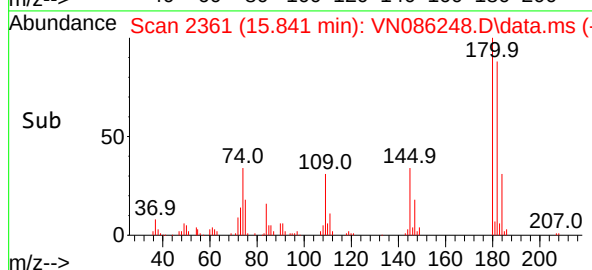
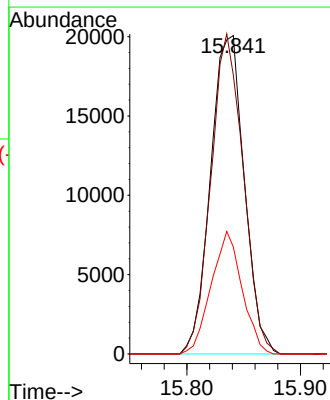
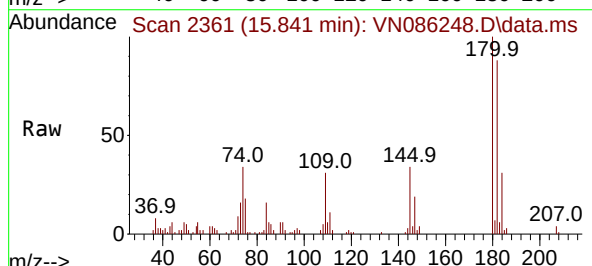
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/14/2025
Supervised By :Mahesh Dadoda 04/14/2025



#92
1,2,3-Trichlorobenzene
Concen: 18.826 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086248.D
Acq: 11 Apr 2025 13:34

Tgt Ion:180 Resp: 41396
Ion Ratio Lower Upper
180 100
182 96.3 0.0 187.8
145 35.2 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN041125

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 M	Dichlorodifluoromethane	2.404	2.591	-7.8	112	0.00
3 M	Chloromethane	3.322	3.360	-1.1	109	0.00
4 M	Vinyl Chloride	3.164	3.200	-1.1	107	0.00
5 M	Bromomethane	1.578	1.593	-1.0	108	0.00
6 M	Chloroethane	1.998	2.062	-3.2	111	0.00
7 M	Trichlorofluoromethane	3.433	3.514	-2.4	110	0.00
8 T	Diethyl Ether	1.583	1.605	-1.4	109	0.00
9	1,1,2-Trichlorotrifluoroeth	2.117	2.123	-0.3	107	0.00
10 M	1,1-Dichloroethene	2.284	2.299	-0.7	107	0.00
11	Methyl Iodide	2.626	2.645	-0.7	108	0.00
12	Methyl Acetate	3.226	3.101	3.9	105	0.00
13 M	Acrolein	0.367	0.328	10.6	122	0.00
14 M	Acrylonitrile	1.362	1.307	4.0	102	0.00
15 M	Acetone	0.345	0.324	6.1	99	0.00
16 M	Carbon Disulfide	6.550	6.700	-2.3	107	0.00
17	Allyl chloride	3.981	4.141	-4.0	112	0.00
18 M	Methylene Chloride	2.605	2.626	-0.8	110	0.00
19 M	trans-1,2-Dichloroethene	2.406	2.363	1.8	107	0.00
20 T	Diisopropyl ether	8.560	8.854	-3.4	110	0.00
21 M	1,1-Dichloroethane	4.567	4.699	-2.9	108	0.00
22 M	cis-1,2-Dichloroethene	2.866	2.891	-0.9	108	0.00
23 M	tert-Butyl Alcohol	0.564	0.546	3.2	100	0.00
24 M	Methyl tert-Butyl Ether	8.244	8.331	-1.1	109	0.00
25 M	Chloroform	4.355	4.502	-3.4	110	0.00
26	Cyclohexane	4.273	4.254	0.4	108	0.00
27 s	1,2-Dichloroethane-d4	2.926	2.904	0.8	100	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
29	1,1-Dichloropropene	0.537	0.547	-1.9	108	0.00
30 M	2-Butanone	0.298	0.295	1.0	103	0.00
31	2,2-Dichloropropane	0.662	0.698	-5.4	111	0.00
32 M	1,1,1-Trichloroethane	0.618	0.620	-0.3	107	0.00
33 M	Carbon Tetrachloride	0.494	0.503	-1.8	108	0.00
34 M	Benzene	1.710	1.754	-2.6	109	0.00
35	Methacrylonitrile	0.336	0.332	1.2	106	0.00
36 M	1,2-Dichloroethane	0.535	0.545	-1.9	108	0.00
37 M	Trichloroethene	0.413	0.409	1.0	105	0.00
38	Methylcyclohexane	0.659	0.664	-0.8	109	0.00
39 M	1,2-Dichloropropane	0.425	0.440	-3.5	110	0.00
40	Dibromomethane	0.275	0.270	1.8	105	0.00
41 M	Bromodichloromethane	0.590	0.599	-1.5	108	0.00
42 M	Vinyl Acetate	1.014	1.050	-3.6	107	0.00
43	Ethyl Acetate	0.601	0.602	-0.2	104	0.00
44	Isopropyl Acetate	1.114	1.130	-1.4	109	0.00
45 T	1,4-Dioxane	0.009	0.008	11.1	97	0.00
46	Methyl methacrylate	0.491	0.490	0.2	106	0.00
47	n-amyl Acetate	0.883	0.865	2.0	107	0.00
48 M	t-1,3-Dichloropropene	0.667	0.674	-1.0	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	0.706	0.727	-3.0	109	0.00
50 M	1,1,2-Trichloroethane	0.385	0.380	1.3	104	0.00
51	Ethyl methacrylate	0.716	0.725	-1.3	108	0.00
52	1,3-Dichloropropane	0.687	0.694	-1.0	109	0.00
53 M	Dibromochloromethane	0.422	0.420	0.5	105	0.00
54 M	1,2-Dibromoethane	0.389	0.384	1.3	105	0.00
55 M	2-Chloroethyl vinyl ether	0.271	0.360	-32.8#	113	0.00
56 M	Bromoform	0.276	0.267	3.3	103	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
58 M	4-Methyl-2-Pentanone	0.681	0.690	-1.3	104	0.00
59 M	2-Hexanone	0.507	0.514	-1.4	105	0.00
60 S	4-Bromofluorobenzene	0.597	0.587	1.7	100	0.00
61 M	Tetrachloroethene	0.443	0.447	-0.9	107	0.00
62 M	Toluene	2.012	2.069	-2.8	108	0.00
63 S	Toluene-d8	1.694	1.687	0.4	99	0.00
64 M	Chlorobenzene	1.229	1.255	-2.1	108	0.00
65	1,1,1,2-Tetrachloroethane	0.406	0.417	-2.7	108	0.00
66 M	Ethyl Benzene	2.232	2.269	-1.7	107	0.00
67 M	m/p-Xylenes	0.830	0.843	-1.6	108	0.00
68 M	o-Xylene	0.816	0.838	-2.7	109	0.00
69 M	Styrene	1.376	1.396	-1.5	109	0.00
70	Isopropylbenzene	2.012	2.040	-1.4	108	0.00
71 M	1,1,2,2-Tetrachloroethane	0.573	0.588	-2.6	107	0.00
72	1,2,3-Trichloropropane	0.596	0.582	2.3	104	0.00
73	Bromobenzene	0.446	0.443	0.7	105	0.00
74	n-propylbenzene	2.376	2.403	-1.1	109	0.00
75	2-Chlorotoluene	1.494	1.489	0.3	107	0.00
76	1,3,5-Trimethylbenzene	1.653	1.682	-1.8	108	0.00
77	t-1,4-Dichloro-2-butene	0.275	0.269	2.2	104	0.00
78	4-Chlorotoluene	1.492	1.456	2.4	106	0.00
79	tert-butylbenzene	1.430	1.432	-0.1	107	0.00
80	1,2,4-Trimethylbenzene	1.676	1.675	0.1	106	0.00
81	sec-Butylbenzene	1.995	2.010	-0.8	106	0.00
82	p-Isopropyltoluene	1.664	1.661	0.2	106	0.00
83 M	1,3-Dichlorobenzene	0.829	0.789	4.8	103	0.00
84 M	1,4-Dichlorobenzene	0.831	0.786	5.4	102	0.00
85	n-Butylbenzene	1.502	1.489	0.9	106	0.00
86 T	Hexachloroethane	0.281	0.270	3.9	103	0.00
87 M	1,2-Dichlorobenzene	0.818	0.766	6.4	100	0.00
88	1,2-Dibromo-3-Chloropropane	0.130	0.118	9.2	93	0.00
89	1,2,4-Trichlorobenzene	0.398	0.375	5.8	94	0.00
90	Hexachlorobutadiene	0.172	0.148	14.0	90	0.00
91 M	Naphthalene	1.569	1.425	9.2	93	0.00
92	1,2,3-Trichlorobenzene	0.398	0.375	5.8	94	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN041125

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	30.000	30.000	0.0	100	0.00
2 M	Dichlorodifluoromethane	20.000	21.563	-7.8	112	0.00
3 M	Chloromethane	20.000	20.226	-1.1	109	0.00
4 M	Vinyl Chloride	20.000	20.223	-1.1	107	0.00
5 M	Bromomethane	20.000	20.183	-0.9	108	0.00
6 M	Chloroethane	20.000	20.642	-3.2	111	0.00
7 M	Trichlorofluoromethane	20.000	20.473	-2.4	110	0.00
8 T	Diethyl Ether	20.000	20.276	-1.4	109	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	20.062	-0.3	107	0.00
10 M	1,1-Dichloroethene	20.000	20.128	-0.6	107	0.00
11	Methyl Iodide	20.000	20.148	-0.7	108	0.00
12	Methyl Acetate	20.000	19.227	3.9	105	0.00
13 M	Acrolein	100.000	89.375	10.6	122	0.00
14 M	Acrylonitrile	100.000	95.988	4.0	102	0.00
15 M	Acetone	100.000	93.868	6.1	99	0.00
16 M	Carbon Disulfide	20.000	20.456	-2.3	107	0.00
17	Allyl chloride	20.000	20.801	-4.0	112	0.00
18 M	Methylene Chloride	20.000	20.166	-0.8	110	0.00
19 M	trans-1,2-Dichloroethene	20.000	19.638	1.8	107	0.00
20 T	Diisopropyl ether	20.000	20.688	-3.4	110	0.00
21 M	1,1-Dichloroethane	20.000	20.578	-2.9	108	0.00
22 M	cis-1,2-Dichloroethene	20.000	20.174	-0.9	108	0.00
23 M	tert-Butyl Alcohol	100.000	96.723	3.3	100	0.00
24 M	Methyl tert-Butyl Ether	20.000	20.211	-1.1	109	0.00
25 M	Chloroform	20.000	20.677	-3.4	110	0.00
26	Cyclohexane	20.000	19.913	0.4	108	0.00
27 s	1,2-Dichloroethane-d4	30.000	29.777	0.7	100	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	102	0.00
29	1,1-Dichloropropene	20.000	20.373	-1.9	108	0.00
30 M	2-Butanone	100.000	98.995	1.0	103	0.00
31	2,2-Dichloropropane	20.000	21.111	-5.6	111	0.00
32 M	1,1,1-Trichloroethane	20.000	20.044	-0.2	107	0.00
33 M	Carbon Tetrachloride	20.000	20.360	-1.8	108	0.00
34 M	Benzene	20.000	20.522	-2.6	109	0.00
35	Methacrylonitrile	20.000	19.764	1.2	106	0.00
36 M	1,2-Dichloroethane	20.000	20.391	-2.0	108	0.00
37 M	Trichloroethene	20.000	19.842	0.8	105	0.00
38	Methylcyclohexane	20.000	20.137	-0.7	109	0.00
39 M	1,2-Dichloropropane	20.000	20.675	-3.4	110	0.00
40	Dibromomethane	20.000	19.681	1.6	105	0.00
41 M	Bromodichloromethane	20.000	20.289	-1.4	108	0.00
42 M	Vinyl Acetate	100.000	103.572	-3.6	107	0.00
43	Ethyl Acetate	20.000	20.054	-0.3	104	0.00
44	Isopropyl Acetate	20.000	20.285	-1.4	109	0.00
45 T	1,4-Dioxane	400.000	369.952	7.5	97	0.00
46	Methyl methacrylate	20.000	19.956	0.2	106	0.00
47	n-amyl Acetate	20.000	19.589	2.1	107	0.00
48 M	t-1,3-Dichloropropene	20.000	20.190	-1.0	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086248.D
 Acq On : 11 Apr 2025 13:34
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN041125

Quant Time: Apr 12 01:24:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	20.000	20.581	-2.9	109	0.00
50 M	1,1,2-Trichloroethane	20.000	19.741	1.3	104	0.00
51	Ethyl methacrylate	20.000	20.259	-1.3	108	0.00
52	1,3-Dichloropropane	20.000	20.216	-1.1	109	0.00
53 M	Dibromochloromethane	20.000	19.923	0.4	105	0.00
54 M	1,2-Dibromoethane	20.000	19.762	1.2	105	0.00
55 M	2-Chloroethyl vinyl ether	100.000	132.990	-33.0#	113	0.00
56 M	Bromoform	20.000	19.359	3.2	103	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	101	0.00
58 M	4-Methyl-2-Pentanone	100.000	101.329	-1.3	104	0.00
59 M	2-Hexanone	100.000	101.451	-1.5	105	0.00
60 S	4-Bromofluorobenzene	30.000	29.482	1.7	100	0.00
61 M	Tetrachloroethene	20.000	20.169	-0.8	107	0.00
62 M	Toluene	20.000	20.568	-2.8	108	0.00
63 S	Toluene-d8	30.000	29.890	0.4	99	0.00
64 M	Chlorobenzene	20.000	20.424	-2.1	108	0.00
65	1,1,1,2-Tetrachloroethane	20.000	20.546	-2.7	108	0.00
66 M	Ethyl Benzene	20.000	20.336	-1.7	107	0.00
67 M	m/p-Xylenes	40.000	40.633	-1.6	108	0.00
68 M	o-Xylene	20.000	20.528	-2.6	109	0.00
69 M	Styrene	20.000	20.281	-1.4	109	0.00
70	Isopropylbenzene	20.000	20.275	-1.4	108	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	20.516	-2.6	107	0.00
72	1,2,3-Trichloropropane	20.000	19.534	2.3	104	0.00
73	Bromobenzene	20.000	19.870	0.6	105	0.00
74	n-propylbenzene	20.000	20.227	-1.1	109	0.00
75	2-Chlorotoluene	20.000	19.943	0.3	107	0.00
76	1,3,5-Trimethylbenzene	20.000	20.354	-1.8	108	0.00
77	t-1,4-Dichloro-2-butene	20.000	19.590	2.1	104	0.00
78	4-Chlorotoluene	20.000	19.528	2.4	106	0.00
79	tert-butylbenzene	20.000	20.021	-0.1	107	0.00
80	1,2,4-Trimethylbenzene	20.000	19.981	0.1	106	0.00
81	sec-Butylbenzene	20.000	20.145	-0.7	106	0.00
82	p-Isopropyltoluene	20.000	19.959	0.2	106	0.00
83 M	1,3-Dichlorobenzene	20.000	19.047	4.8	103	0.00
84 M	1,4-Dichlorobenzene	20.000	18.923	5.4	102	0.00
85	n-Butylbenzene	20.000	19.828	0.9	106	0.00
86 T	Hexachloroethane	20.000	19.245	3.8	103	0.00
87 M	1,2-Dichlorobenzene	20.000	18.727	6.4	100	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	18.109	9.5	93	0.00
89	1,2,4-Trichlorobenzene	20.000	18.826	5.9	94	0.00
90	Hexachlorobutadiene	20.000	17.262	13.7	90	0.00
91 M	Naphthalene	20.000	18.155	9.2	93	0.00
92	1,2,3-Trichlorobenzene	20.000	18.826	5.9	94	0.00

(#) = Out of Range

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TULL01

Lab Code: CHEM Case No.: Q1804 SAS No.: Q1804 SDG No.: Q1804

Instrument ID: MSVOA_N Calibration Date/Time: 04/14/2025 09:48

Lab File ID: VN086257.D Init. Calib. Date(s): 04/11/2025 04/11/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:04 12:40

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Benzene	1.710	1.605	0.5	-6.14	
Toluene	2.012	1.915	0.4	-4.82	
Ethyl Benzene	2.232	2.098	0.1	-6	
m/p-Xylenes	0.830	0.780	0.3	-6.02	
o-Xylene	0.816	0.787	0.3	-3.55	
1,2-Dichloroethane-d4	2.926	2.921	0.01	-0.17	
Toluene-d8	1.694	1.689	0.01	-0.29	
4-Bromofluorobenzene	0.597	0.586	0.2	-1.84	

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\VN041425\
 Data File : VN086257.D
 Acq On : 14 Apr 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

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

Quant Time: Apr 15 03:03:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	32024	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	197357	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	173474	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	93528	29.943	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.800%	
60) 4-Bromofluorobenzene	12.847	95	101678	29.439	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	98.133%	
63) Toluene-d8	10.565	98	292978	29.915	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.733%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	51705	20.151	ug/l	100
3) Chloromethane	2.359	50	67862	19.136	ug/l	99
4) Vinyl Chloride	2.518	62	64550	19.110	ug/l	98
5) Bromomethane	2.965	94	30779	18.267	ug/l	95
6) Chloroethane	3.124	64	41142	19.288	ug/l	100
7) Trichlorofluoromethane	3.506	101	70115	19.135	ug/l	99
8) Diethyl Ether	3.959	74	32172	19.039	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	43514	19.258	ug/l	98
10) 1,1-Dichloroethene	4.342	96	45539	18.675	ug/l	96
11) Methyl Iodide	4.589	142	52123	18.598	ug/l	97
12) Methyl Acetate	5.024	43	63492	18.438	ug/l	97
13) Acrolein	4.177	56	43778	111.843	ug/l	100
14) Acrylonitrile	5.712	53	131269	90.298	ug/l	99
15) Acetone	4.424	58	31209	84.669	ug/l	81
16) Carbon Disulfide	4.712	76	132270	18.916	ug/l	100
17) Allyl chloride	5.018	41	78898	18.564	ug/l	97
18) Methylene Chloride	5.271	84	52153	18.758	ug/l	95
19) trans-1,2-Dichloroethene	5.789	96	47367	18.441	ug/l	95
20) Diisopropyl ether	6.665	45	173261	18.962	ug/l	98
21) 1,1-Dichloroethane	6.565	63	94571	19.400	ug/l	97
22) cis-1,2-Dichloroethene	7.482	96	58597	19.151	ug/l	98
23) tert-Butyl Alcohol	5.506	59	52600	87.324	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	167022	18.980	ug/l	99
25) Chloroform	7.965	83	88484	19.034	ug/l	97
26) Cyclohexane	8.253	56	86005	18.858	ug/l #	100
29) 1,1-Dichloropropene	8.371	75	66713	18.870	ug/l	99
30) 2-Butanone	7.477	43	171707	87.649	ug/l	99
31) 2,2-Dichloropropane	7.482	77	84554	19.429	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	75829	18.645	ug/l	99
33) Carbon Tetrachloride	8.353	117	61318	18.867	ug/l	97
34) Benzene	8.600	78	211172	18.775	ug/l	99
35) Methacrylonitrile	7.777	41	39350	17.817	ug/l	94
36) 1,2-Dichloroethane	8.665	62	67422	19.155	ug/l	99
37) Trichloroethene	9.347	130	52165	19.222	ug/l	99
38) Methylcyclohexane	9.600	83	81444	18.783	ug/l	99
39) 1,2-Dichloropropane	9.618	63	52917	18.907	ug/l	98
40) Dibromomethane	9.706	93	33301	18.422	ug/l	99
41) Bromodichloromethane	9.882	83	71754	18.478	ug/l	99
42) Vinyl Acetate	6.600	43	620604	93.065	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086257.D
 Acq On : 14 Apr 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025

Quant Time: Apr 15 03:03:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M

Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Sat Apr 12 01:21:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	70547m	17.853	ug/l	
44) Isopropyl Acetate	8.682	43	126923	17.314	ug/l	97
45) 1,4-Dioxane	9.688	88	21249	364.534	ug/l #	92
46) Methyl methacrylate	9.676	41	58920	18.242	ug/l	95
47) n-amyl Acetate	12.488	43	99949	17.197	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	81596	18.586	ug/l	98
49) cis-1,3-Dichloropropene	10.306	75	87501	18.832	ug/l	95
50) 1,1,2-Trichloroethane	11.012	97	46793	18.457	ug/l	97
51) Ethyl methacrylate	10.871	69	84381	17.910	ug/l	98
52) 1,3-Dichloropropane	11.159	76	84556	18.712	ug/l	99
53) Dibromochloromethane	11.359	129	51833	18.691	ug/l	99
54) 1,2-Dibromoethane	11.465	107	47300	18.482	ug/l	99
55) 2-Chloroethyl vinyl ether	10.153	63	197031	110.673	ug/l	100
56) Bromoform	12.576	173	33228	18.314	ug/l	97
58) 4-Methyl-2-Pentanone	10.441	43	358624	91.099	ug/l	100
59) 2-Hexanone	11.188	43	264746	90.316	ug/l	99
61) Tetrachloroethene	11.100	164	49659	19.384	ug/l	98
62) Toluene	10.623	91	221443	19.032	ug/l	100
64) Chlorobenzene	11.888	112	135157	19.013	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	44831	19.109	ug/l	99
66) Ethyl Benzene	11.959	91	242647	18.804	ug/l	100
67) m/p-Xylenes	12.065	106	180457	37.610	ug/l	100
68) o-Xylene	12.394	106	91065	19.296	ug/l	97
69) Styrene	12.406	104	148905	18.708	ug/l	100
70) Isopropylbenzene	12.694	105	221830	19.063	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	60935	18.397	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	63106m	18.304	ug/l	
73) Bromobenzene	12.976	156	49010	19.012	ug/l	98
74) n-propylbenzene	13.029	91	261891	19.060	ug/l	100
75) 2-Chlorotoluene	13.123	91	162087	18.767	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	180756	18.910	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	29299	18.430	ug/l	96
78) 4-Chlorotoluene	13.217	91	160361	18.592	ug/l	100
79) tert-butylbenzene	13.435	119	154513	18.681	ug/l	97
80) 1,2,4-Trimethylbenzene	13.476	105	183217	18.902	ug/l	99
81) sec-Butylbenzene	13.612	105	220196	19.085	ug/l	99
82) p-Isopropyltoluene	13.723	119	185966	19.321	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	90204	18.827	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	89476	18.615	ug/l	99
85) n-Butylbenzene	14.053	91	164579	18.955	ug/l	99
86) Hexachloroethane	14.329	117	30879	19.019	ug/l	99
87) 1,2-Dichlorobenzene	14.106	146	88400	18.686	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12505	16.576	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	41499	18.029	ug/l	98
90) Hexachlorobutadiene	15.500	225	17114	17.220	ug/l	98
91) Naphthalene	15.635	128	150034	16.532	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	41499	18.029	ug/l	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086257.D
 Acq On : 14 Apr 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

Client SampleId :

VSTDCCC020

Manual Integrations

APPROVED

Reviewed By : John Carlone 04/16/2025

Supervised By : Semsettin Yesilyurt 04/16/2025

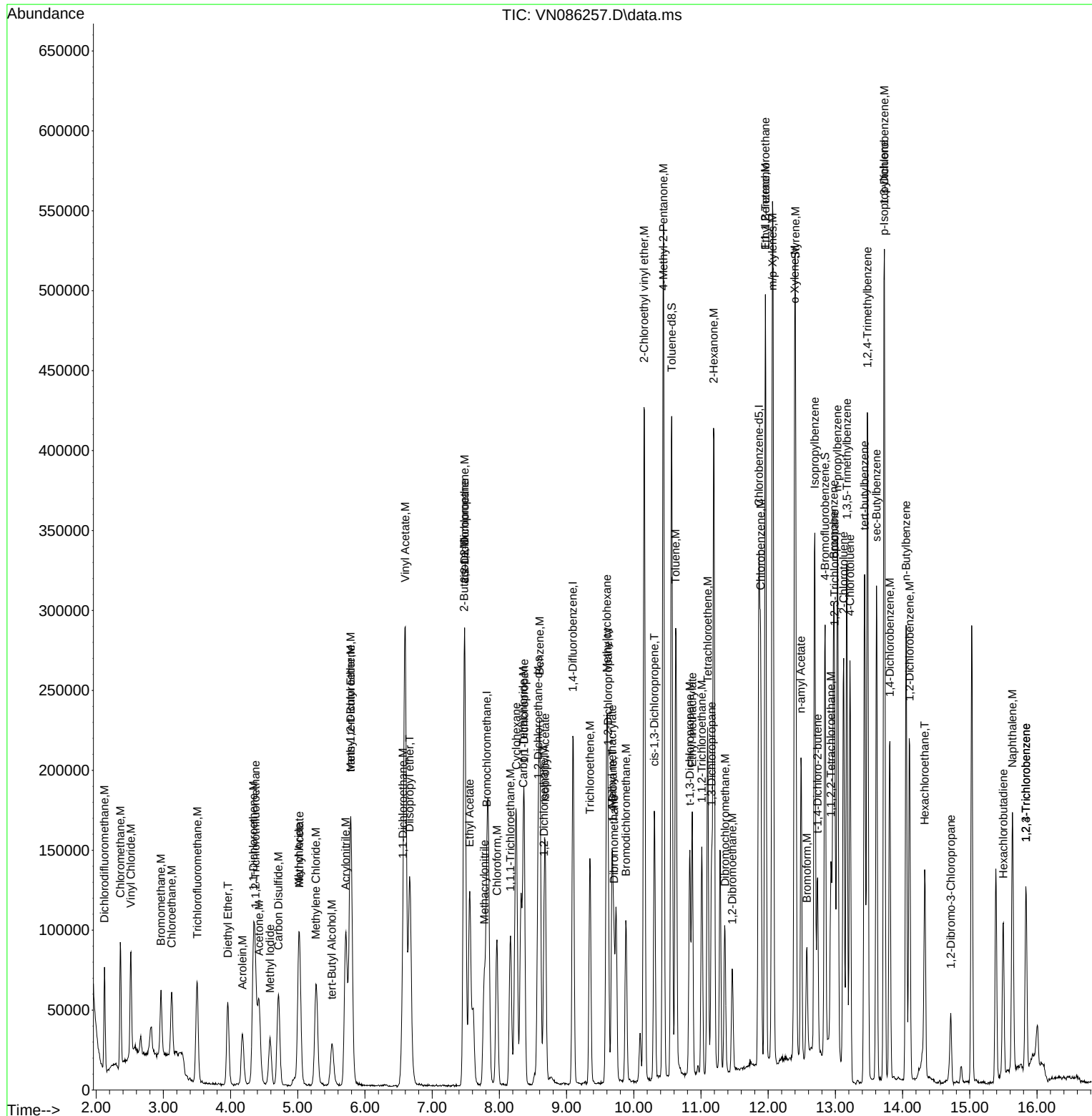
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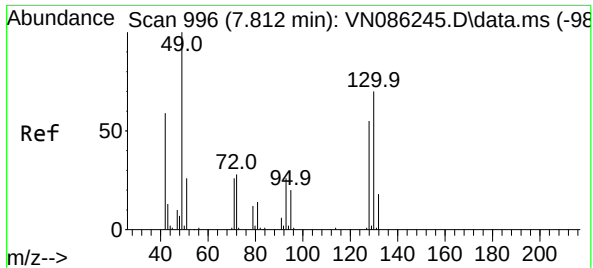
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

QLast Update : Sat Apr 12 01:21:52 2025

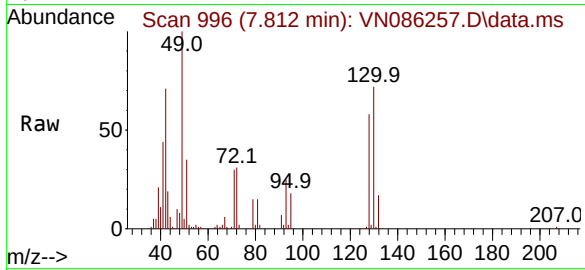
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

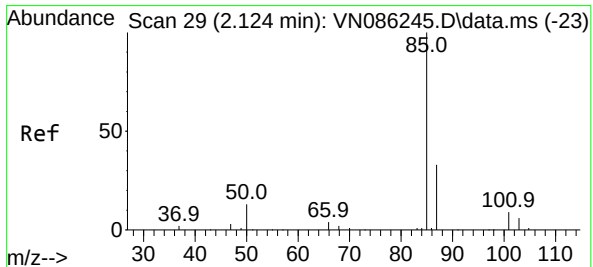
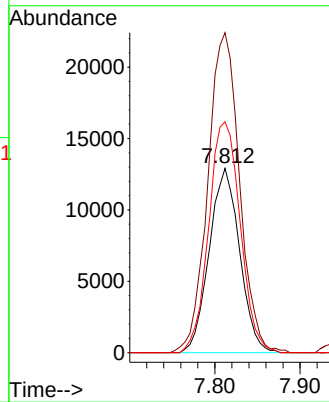
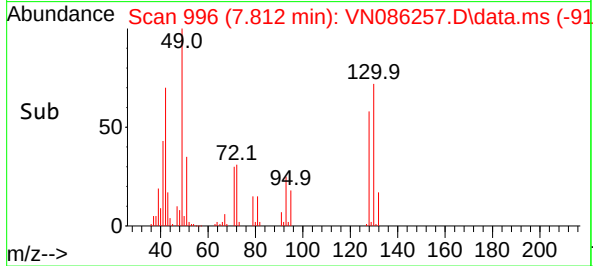
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:128 Resp: 32024
Ion Ratio Lower Upper
128 100
49 180.9 0.0 452.5
130 130.1 0.0 315.0

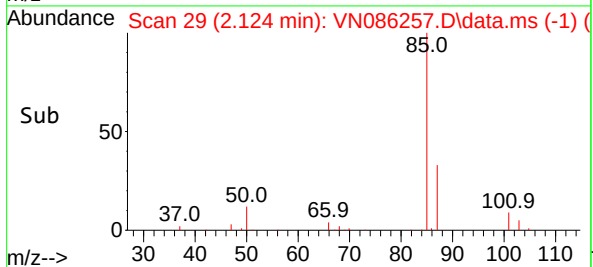
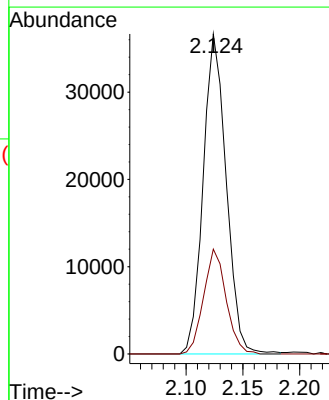
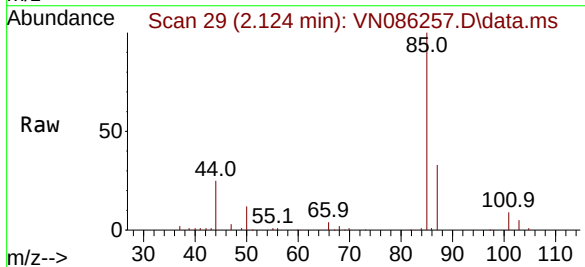
Manual Integrations
APPROVED

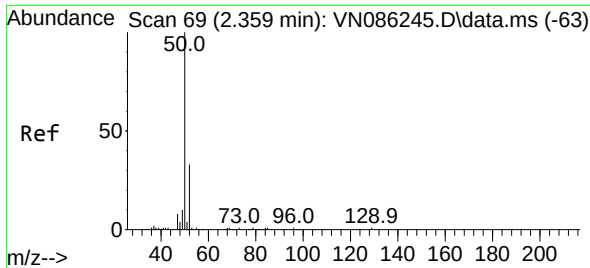
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#2
Dichlorodifluoromethane
Concen: 20.151 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Tgt Ion: 85 Resp: 51705
Ion Ratio Lower Upper
85 100
87 32.7 16.3 48.9





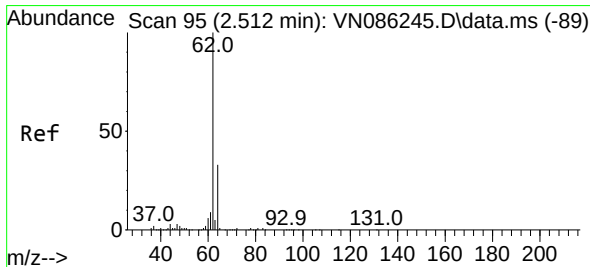
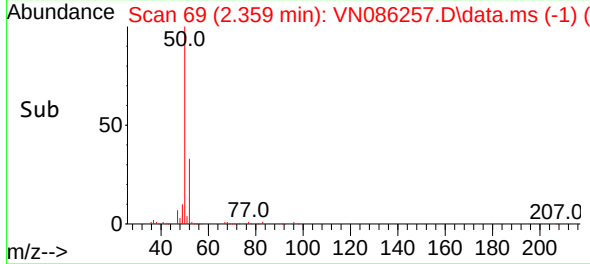
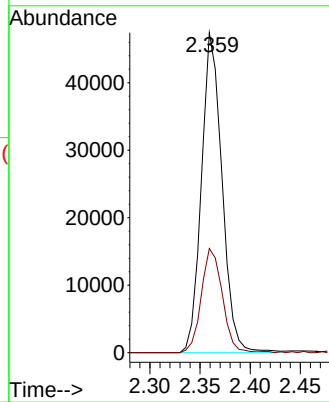
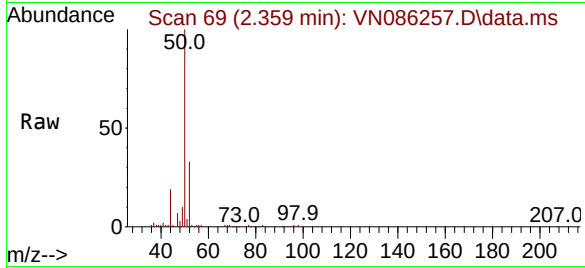
#3
Chloromethane
Concen: 19.136 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 50 Resp: 67862
Ion Ratio Lower Upper
50 100
52 32.5 26.4 39.6

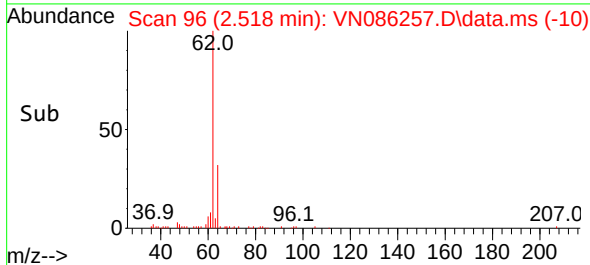
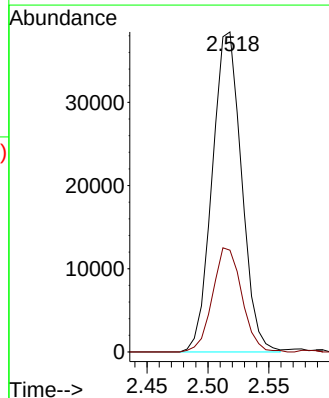
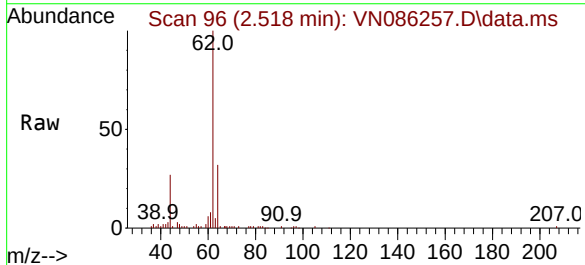
Manual Integrations
APPROVED

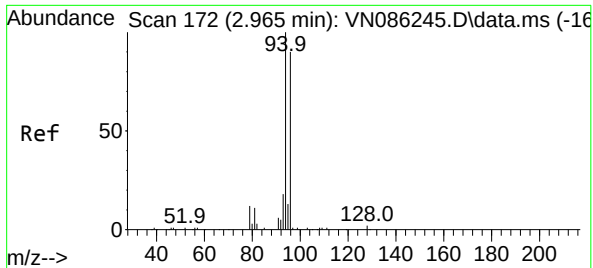
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#4
Vinyl Chloride
Concen: 19.110 ug/l
RT: 2.518 min Scan# 96
Delta R.T. 0.006 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

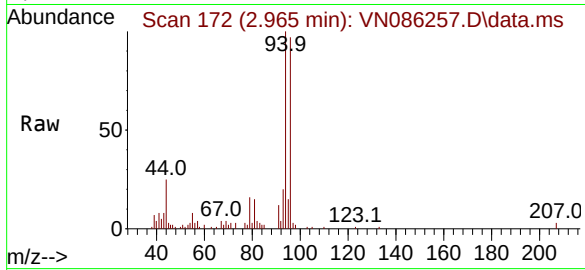
Tgt Ion: 62 Resp: 64550
Ion Ratio Lower Upper
62 100
64 31.8 26.3 39.5





#5
Bromomethane
Concen: 18.267 ug/l
RT: 2.965 min Scan# 172
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

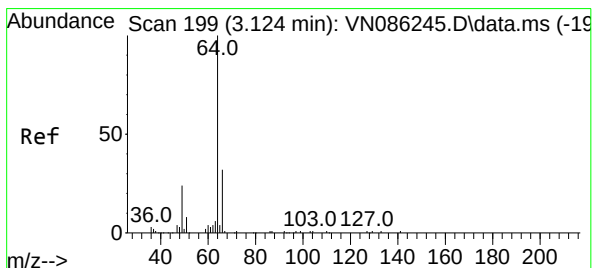
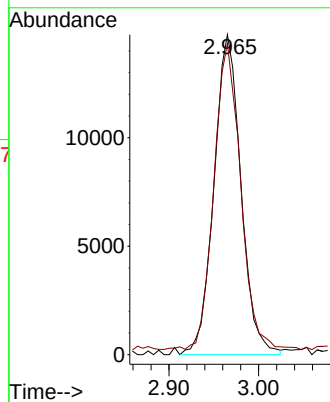
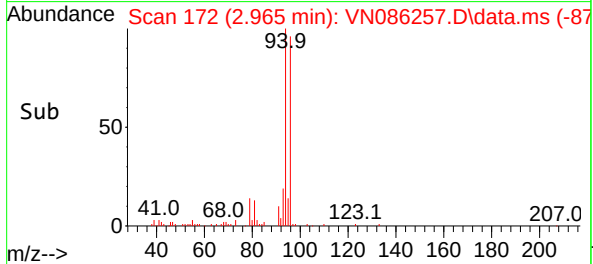
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 94 Resp: 30779
Ion Ratio Lower Upper
94 100
96 94.8 72.2 108.2

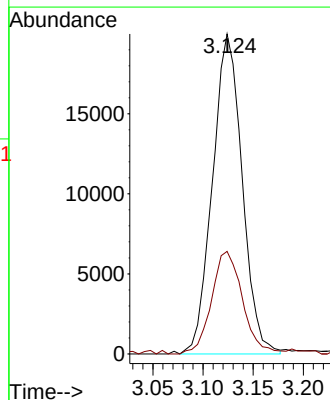
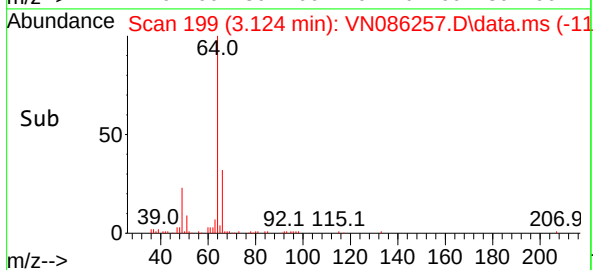
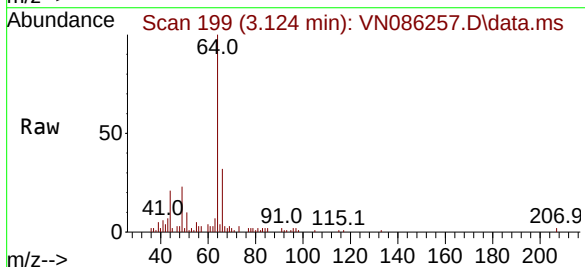
Manual Integrations
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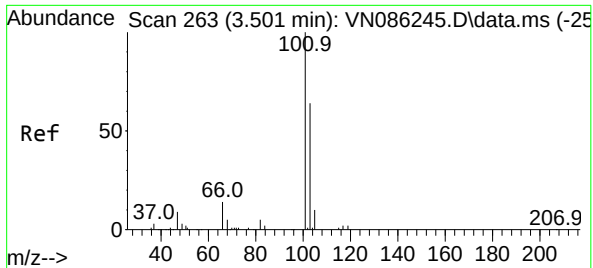
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#6
Chloroethane
Concen: 19.288 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

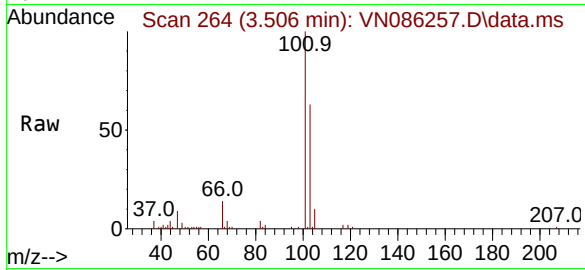
Tgt Ion: 64 Resp: 41142
Ion Ratio Lower Upper
64 100
66 32.0 25.7 38.5





#7
Trichlorofluoromethane
Concen: 19.135 ug/l
RT: 3.506 min Scan# 263
Delta R.T. 0.006 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

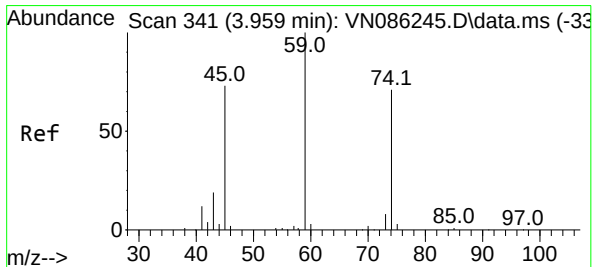
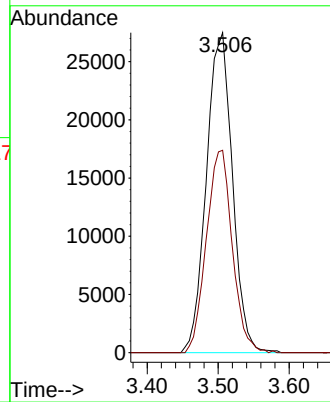
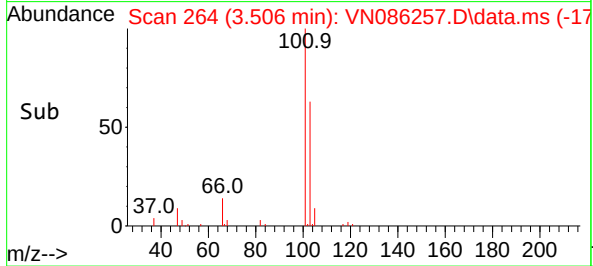
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 101 Resp: 70115
Ion Ratio Lower Upper
101 100
103 63.2 51.2 76.8

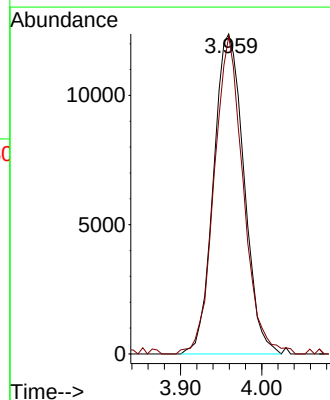
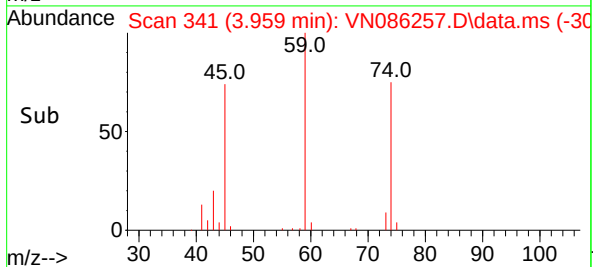
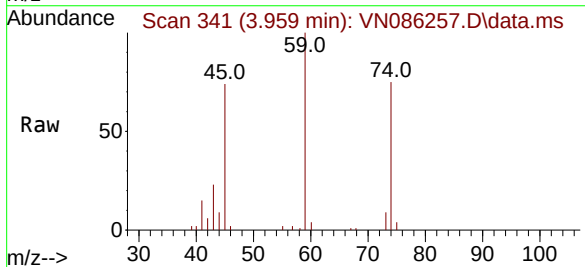
Manual Integrations
APPROVED

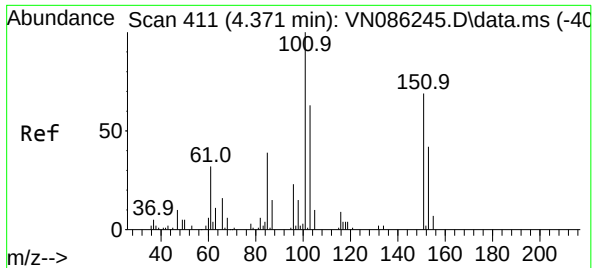
Reviewed By : John Carlone 04/16/2025
Supervised By : Semsettin Yesilyurt 04/16/2025



#8
Diethyl Ether
Concen: 19.039 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Tgt Ion: 74 Resp: 32172
Ion Ratio Lower Upper
74 100
45 94.3 19.2 173.2





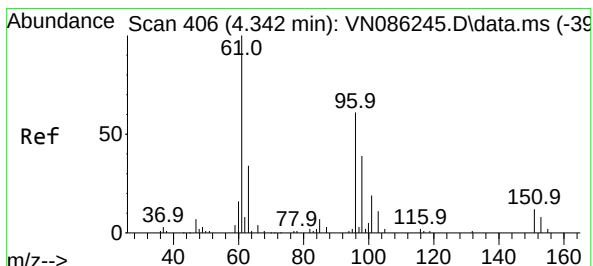
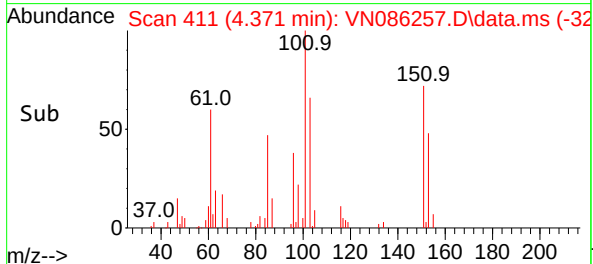
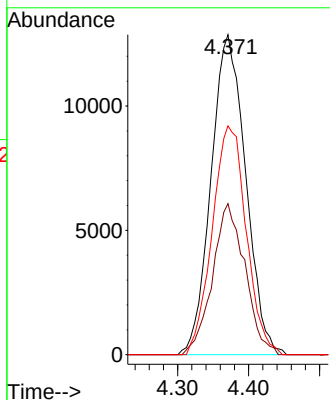
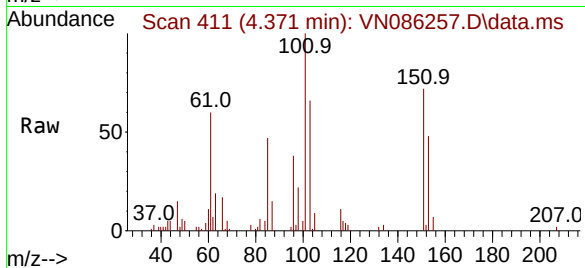
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.258 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:101 Resp: 43514
Ion Ratio Lower Upper
101 100
85 44.4 0.0 93.0
151 70.4 0.0 138.6

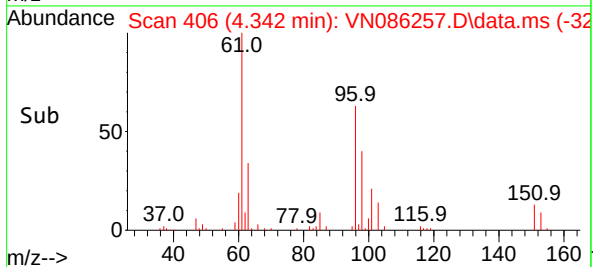
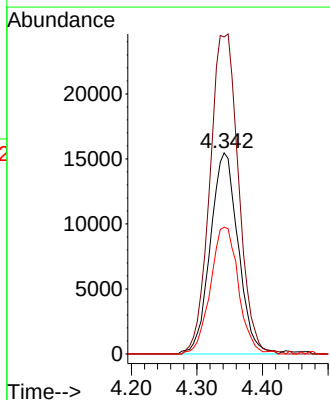
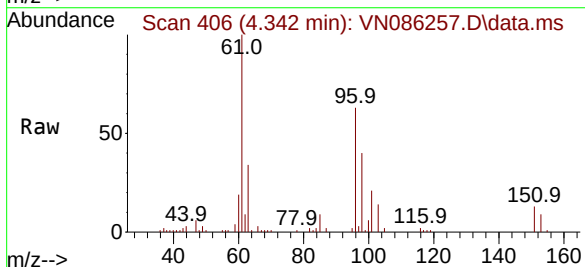
Manual Integrations
APPROVED

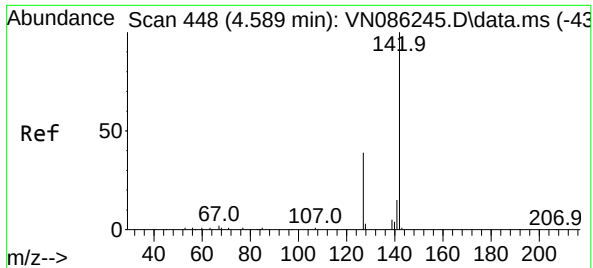
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#10
1,1-Dichloroethene
Concen: 18.675 ug/l
RT: 4.342 min Scan# 406
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Tgt Ion: 96 Resp: 45539
Ion Ratio Lower Upper
96 100
61 157.6 131.1 196.7
98 63.0 51.6 77.4





#11

Methyl Iodide

Concen: 18.598 ug/l

RT: 4.589 min Scan# 448

Delta R.T. -0.000 min

Lab File: VN086257.D

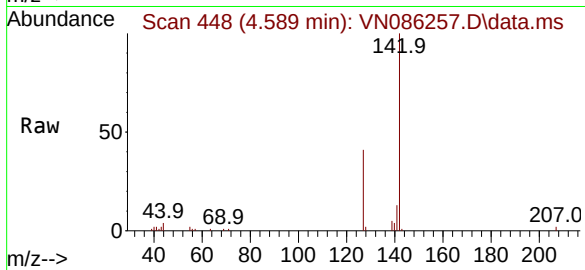
Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020



Tgt Ion:142 Resp: 5212

Ion Ratio Lower Upper

142 100

127 40.8 19.6 58.8

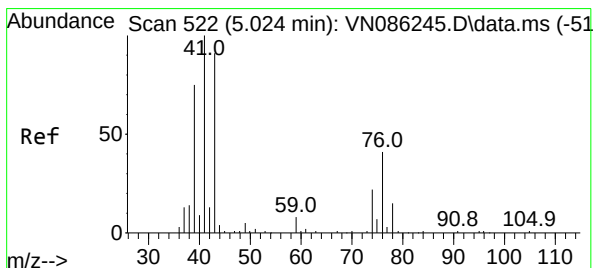
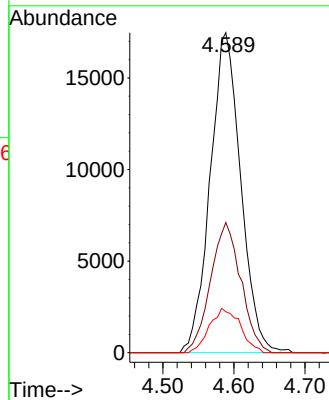
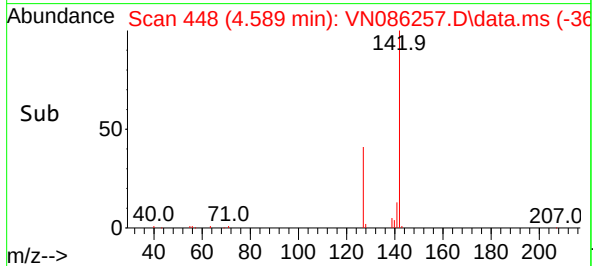
141 12.9 7.3 21.9

Manual Integrations

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Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#12

Methyl Acetate

Concen: 18.438 ug/l

RT: 5.024 min Scan# 522

Delta R.T. -0.000 min

Lab File: VN086257.D

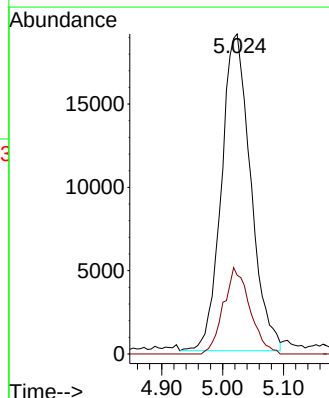
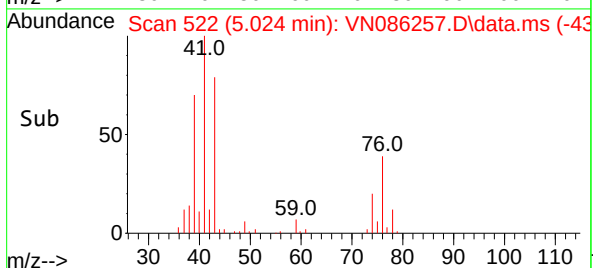
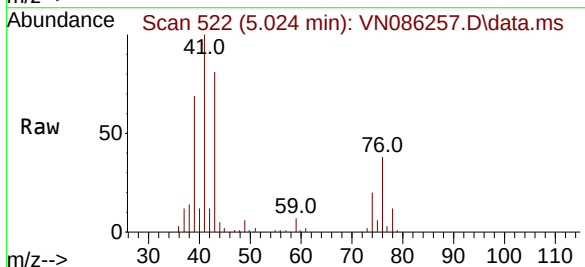
Acq: 14 Apr 2025 09:48

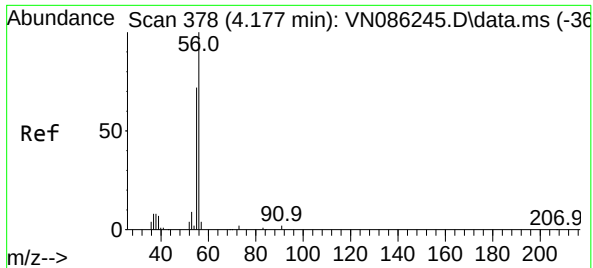
Tgt Ion: 43 Resp: 63492

Ion Ratio Lower Upper

43 100

74 25.2 19.1 28.7





#13

Acrolein

Concen: 111.843 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 56 Resp: 43778

Ion Ratio Lower Upper

56 100

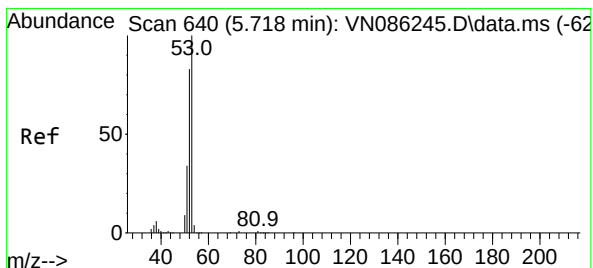
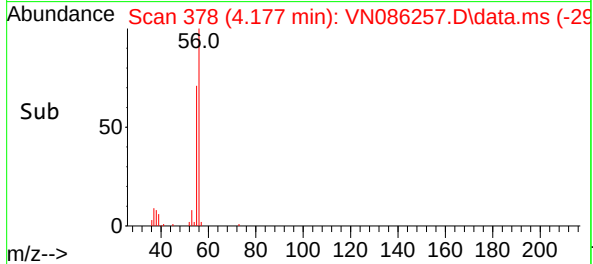
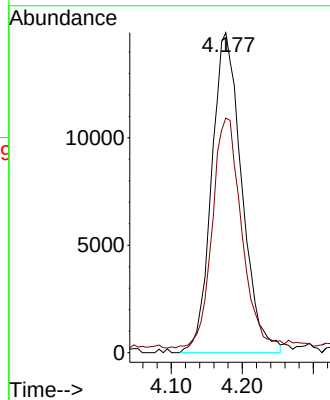
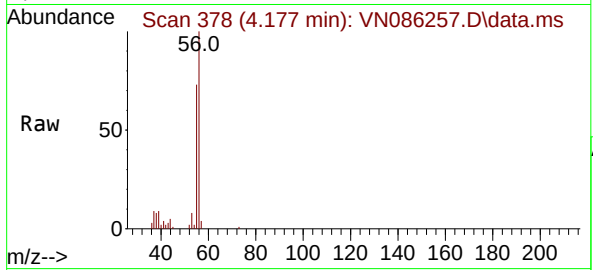
55 70.2 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#14

Acrylonitrile

Concen: 90.298 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

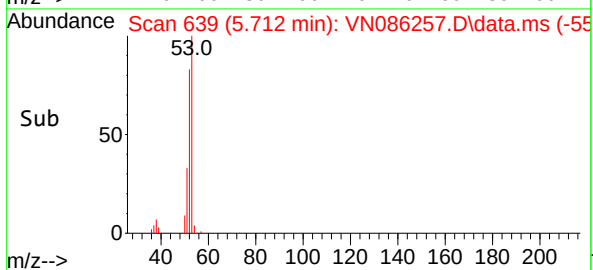
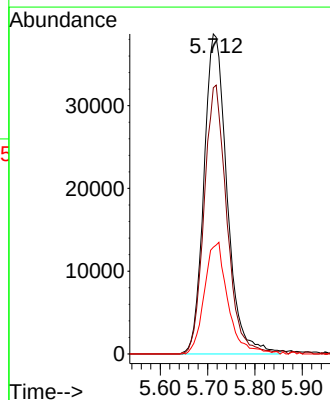
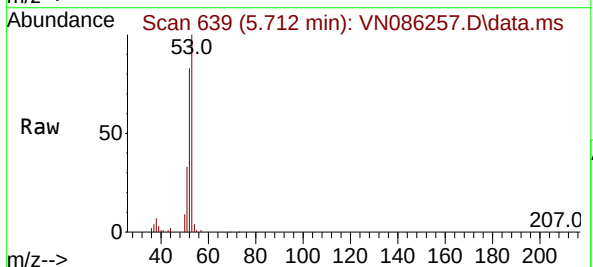
Tgt Ion: 53 Resp: 131269

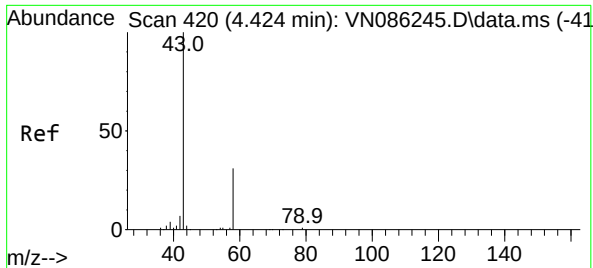
Ion Ratio Lower Upper

53 100

52 82.2 40.2 120.6

51 35.2 17.5 52.6





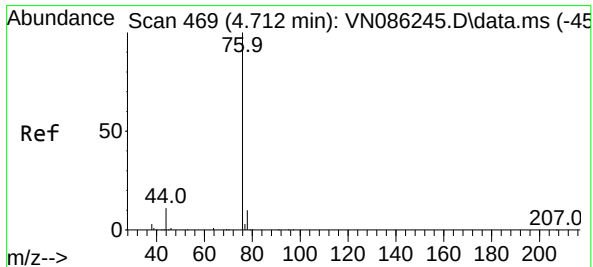
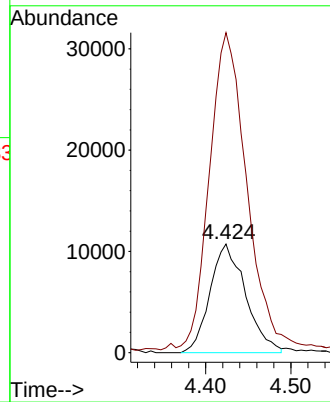
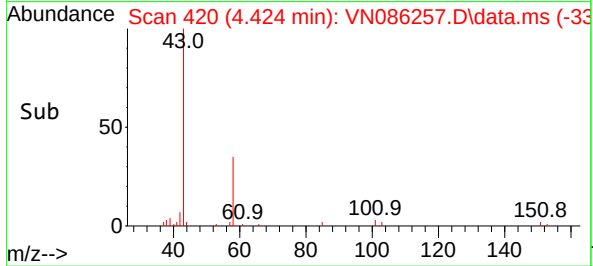
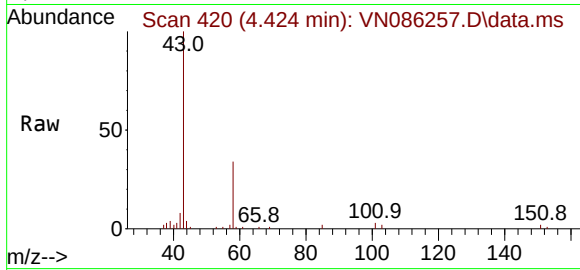
#15
Acetone
Concen: 84.669 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 58 Resp: 31209
Ion Ratio Lower Upper
58 100
43 288.1 261.8 392.8

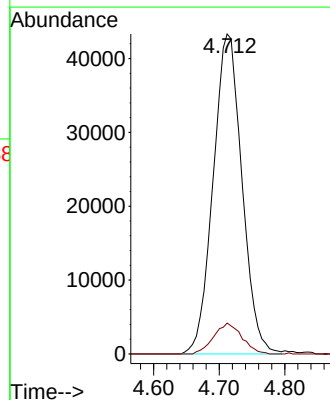
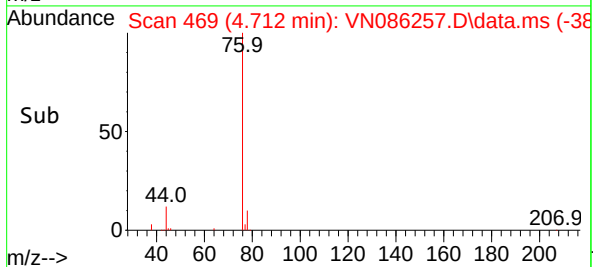
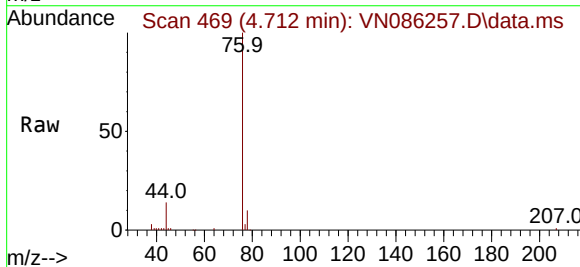
Manual Integrations
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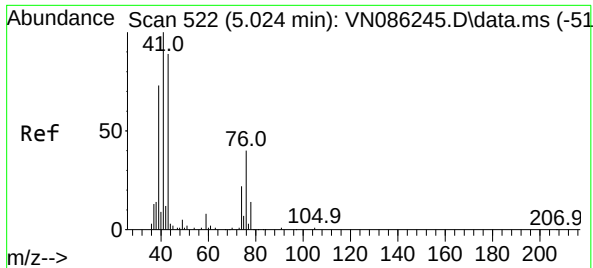
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#16
Carbon Disulfide
Concen: 18.916 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Tgt Ion: 76 Resp: 132270
Ion Ratio Lower Upper
76 100
78 9.7 7.7 11.5





#17

Allyl chloride

Concen: 18.564 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 41 Resp: 7889

Ion Ratio Lower Upper

41 100

39 67.4 34.4 103.2

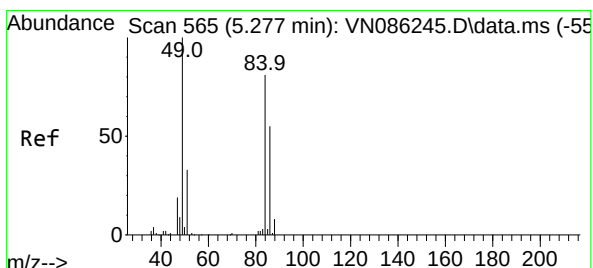
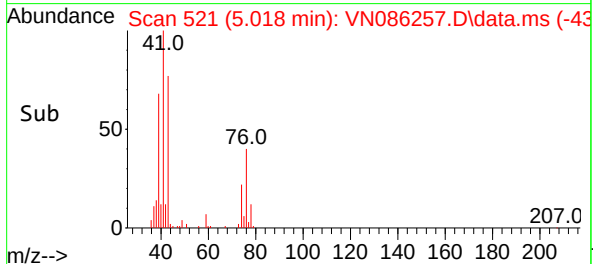
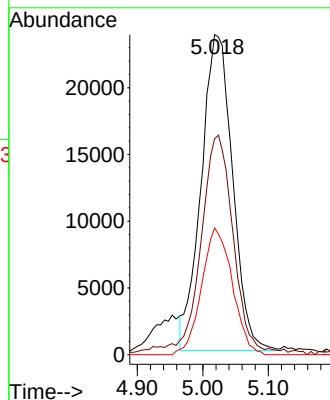
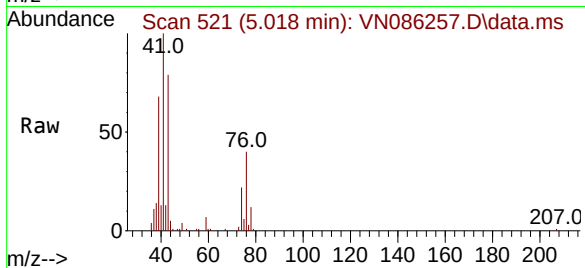
76 40.3 18.8 56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#18

Methylene Chloride

Concen: 18.758 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Tgt Ion: 84 Resp: 52153

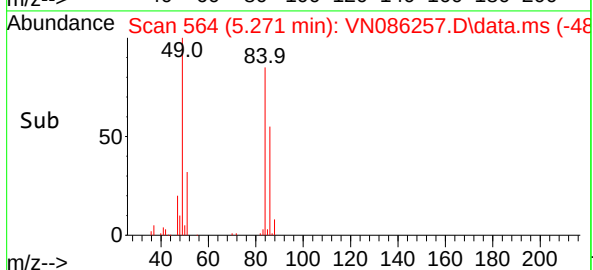
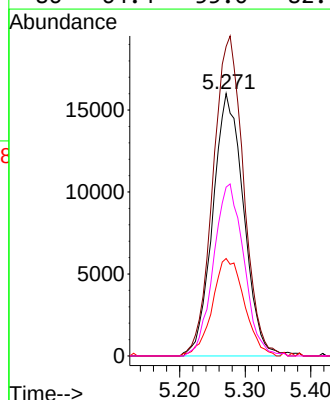
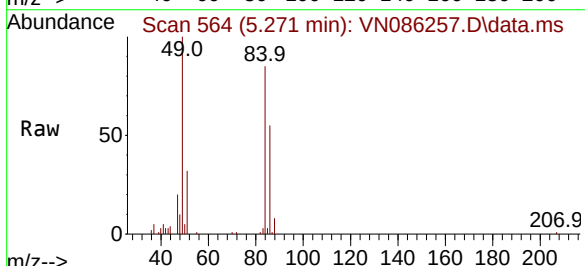
Ion Ratio Lower Upper

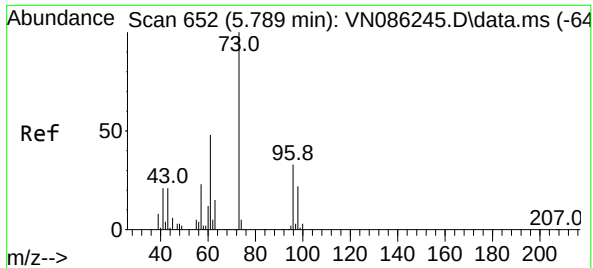
84 100

49 117.9 99.1 148.7

51 37.2 32.3 48.5

86 64.4 55.0 82.4





#19

trans-1,2-Dichloroethene

Concen: 18.441 ug/l

RT: 5.789 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 96 Resp: 4736

Ion Ratio Lower Upper

96 100

61 137.3 115.9 173.9

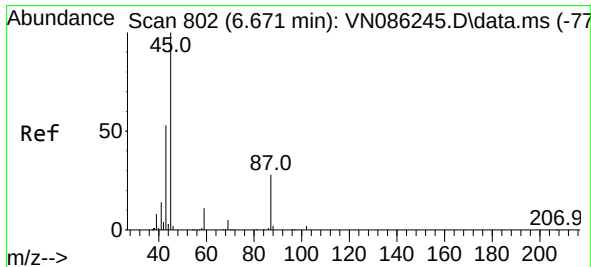
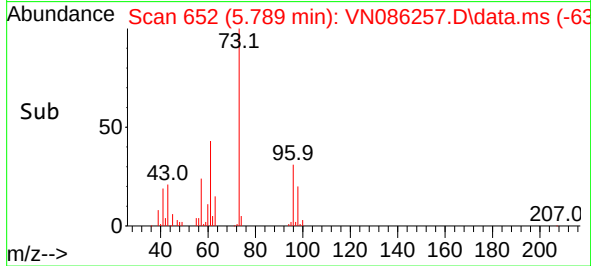
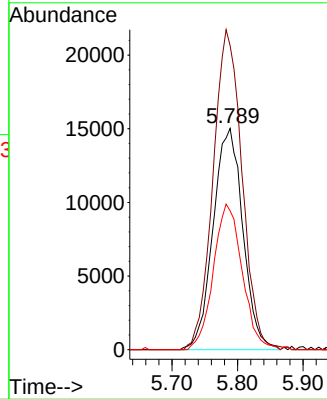
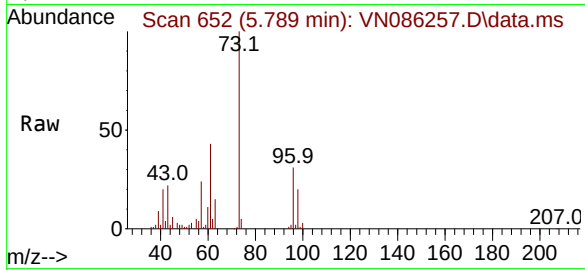
98 62.8 52.1 78.1

Manual Integrations

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Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#20

Diisopropyl ether

Concen: 18.962 ug/l

RT: 6.665 min Scan# 801

Delta R.T. -0.006 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Tgt Ion: 45 Resp: 173261

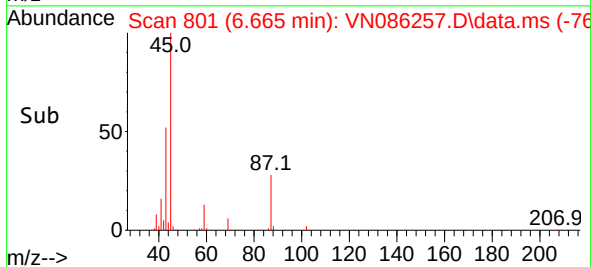
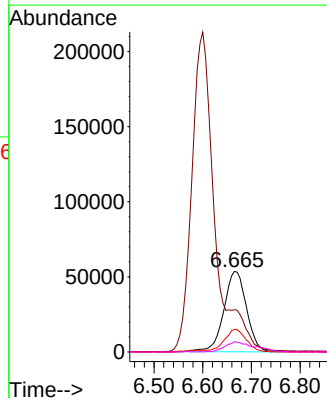
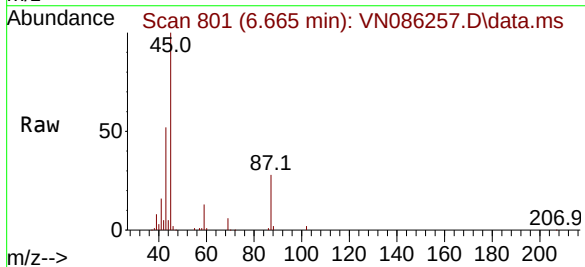
Ion Ratio Lower Upper

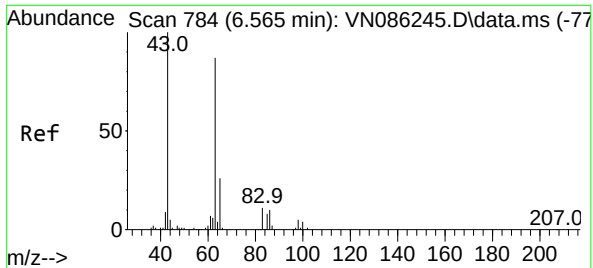
45 100

43 50.8 42.3 63.5

87 28.0 22.2 33.4

59 12.7 9.1 13.7





#21

1,1-Dichloroethane

Concen: 19.400 ug/l

RT: 6.565 min Scan# 71

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

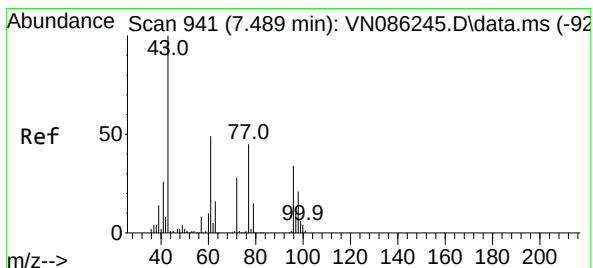
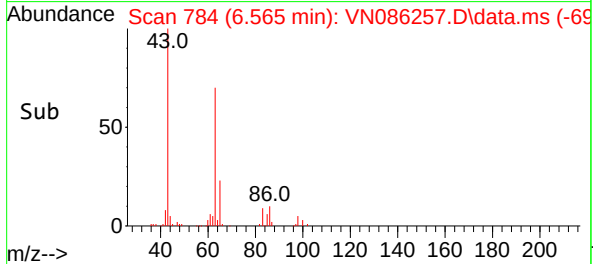
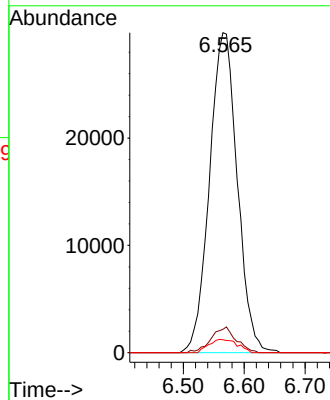
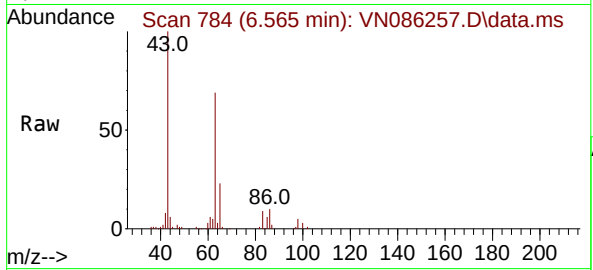
Tgt Ion:	63	Resp:	9457
Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.1	9.3
100	4.0	2.3	6.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#22

cis-1,2-Dichloroethene

Concen: 19.151 ug/l

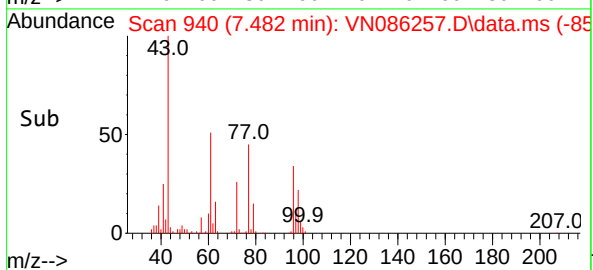
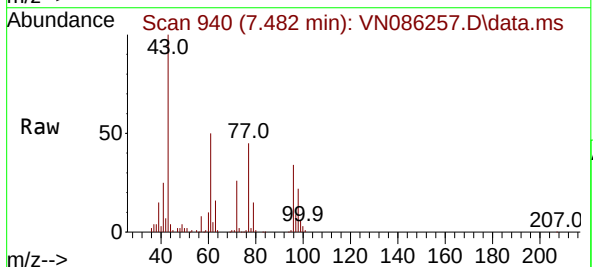
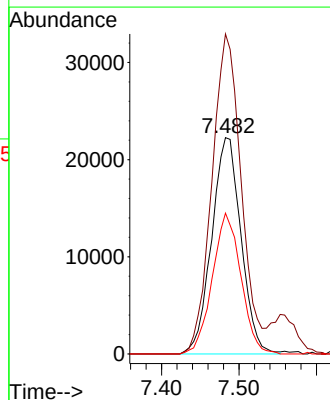
RT: 7.482 min Scan# 940

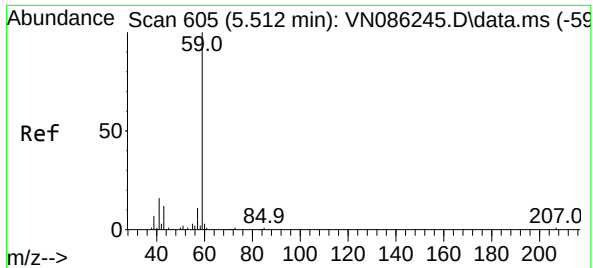
Delta R.T. -0.006 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

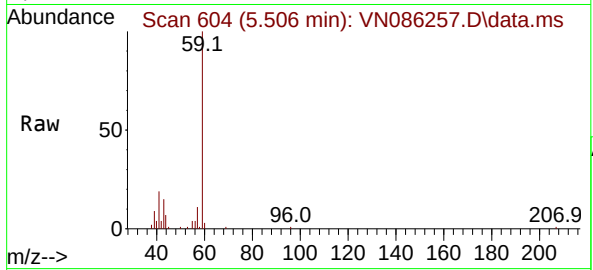
Tgt Ion:	96	Resp:	58597
Ion	Ratio	Lower	Upper
96	100		
61	146.7	119.5	179.3
98	63.4	51.0	76.6





#23
tert-Butyl Alcohol
Concen: 87.324 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.006 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

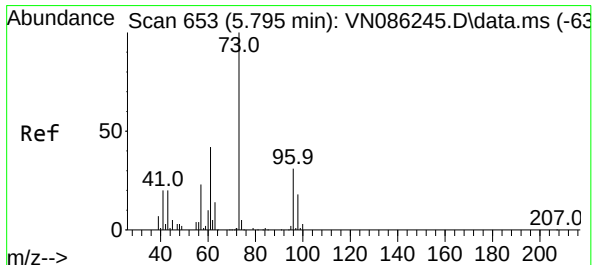
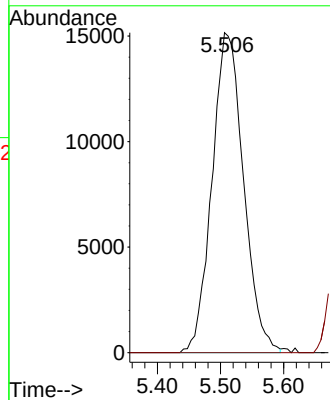
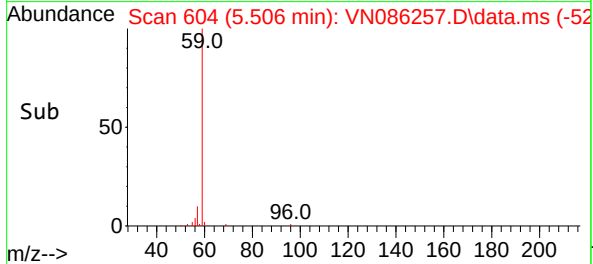
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 59 Resp: 52600
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

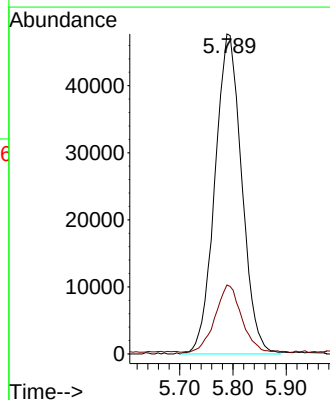
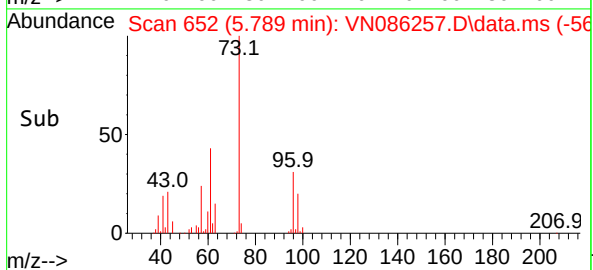
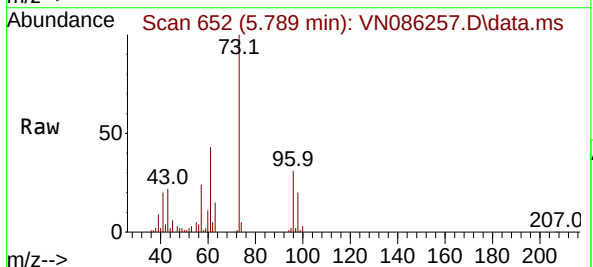
Manual Integrations
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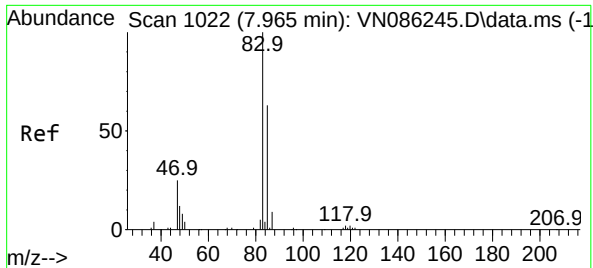
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#24
Methyl tert-Butyl Ether
Concen: 18.980 ug/l
RT: 5.789 min Scan# 652
Delta R.T. -0.006 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Tgt Ion: 73 Resp: 167022
Ion Ratio Lower Upper
73 100
43 20.5 16.8 25.2





#25

Chloroform

Concen: 19.034 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 83 Resp: 88484

Ion Ratio Lower Upper

83 100

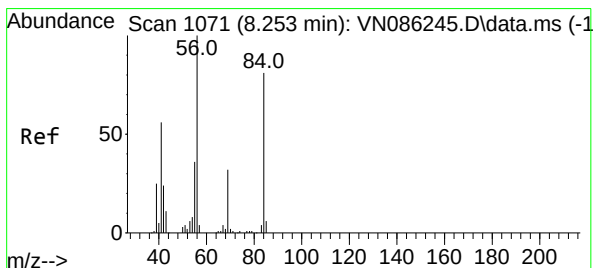
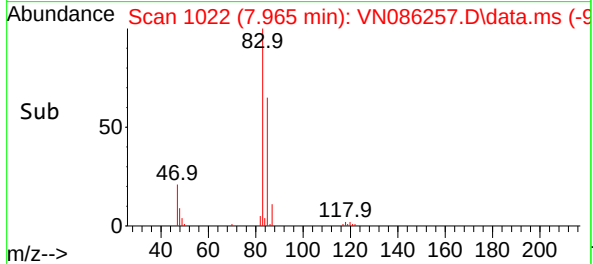
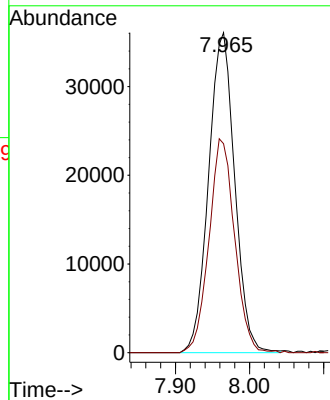
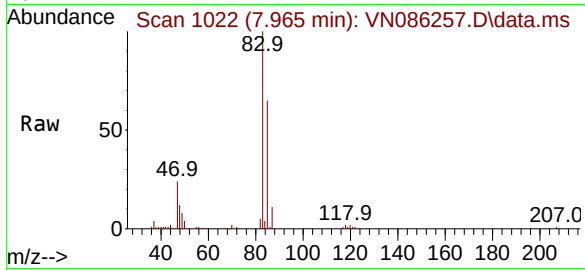
85 65.3 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#26

Cyclohexane

Concen: 18.858 ug/l

RT: 8.253 min Scan# 1071

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

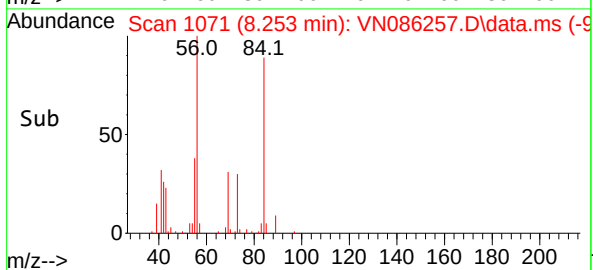
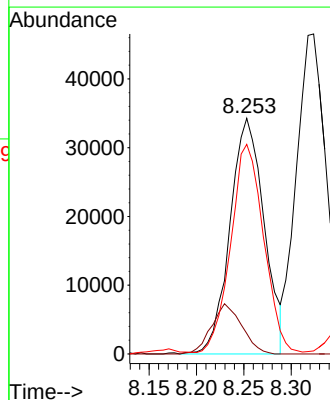
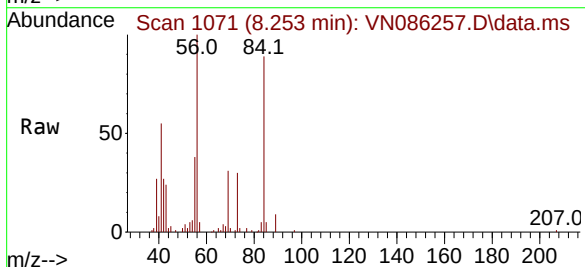
Tgt Ion: 56 Resp: 86005

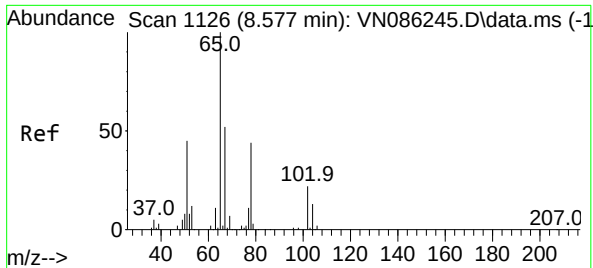
Ion Ratio Lower Upper

56 100

89 18.9 0.0 0.0#

84 86.5 69.0 103.4





#27

1,2-Dichloroethane-d4

Concen: 29.943 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 65 Resp: 93528

Ion Ratio Lower Upper

65 100

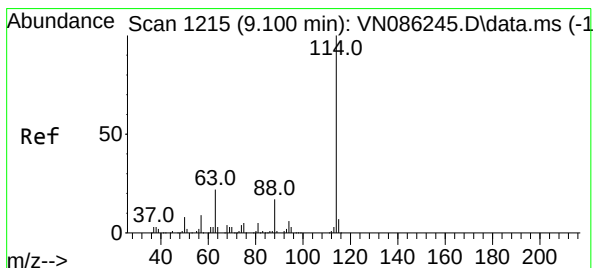
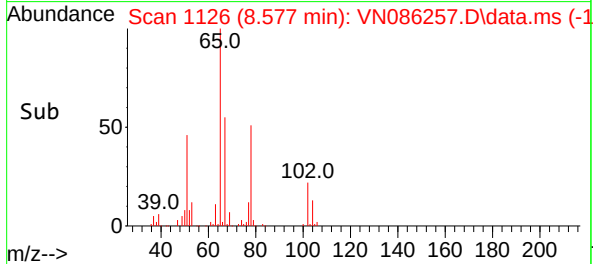
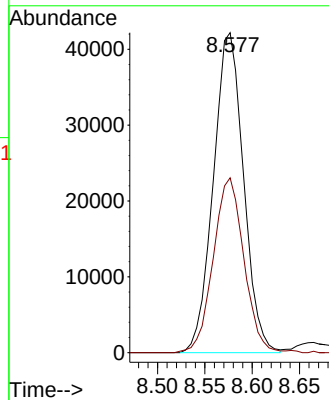
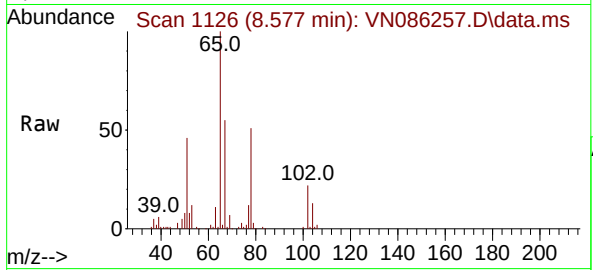
67 55.3 43.4 65.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.006 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

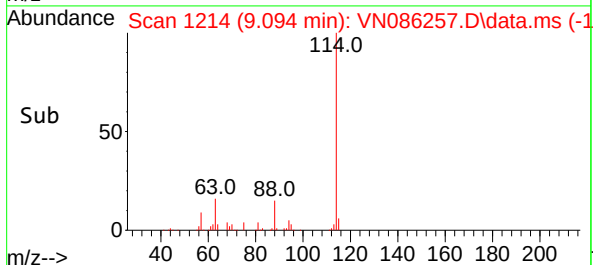
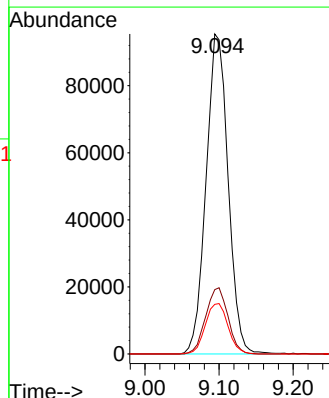
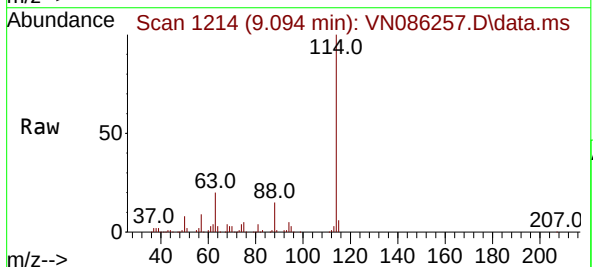
Tgt Ion:114 Resp: 197357

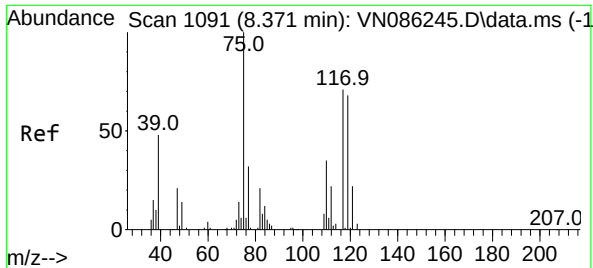
Ion Ratio Lower Upper

114 100

63 20.9 17.8 26.6

88 16.2 13.4 20.2





#29

1,1-Dichloropropene

Concen: 18.870 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

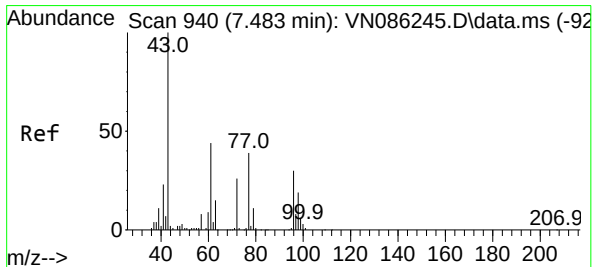
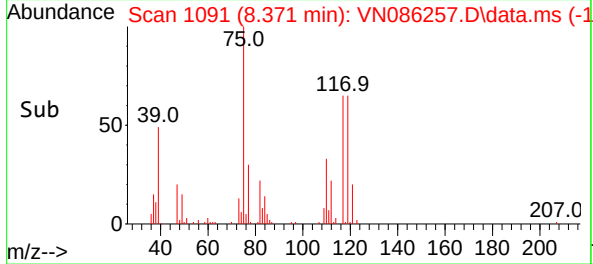
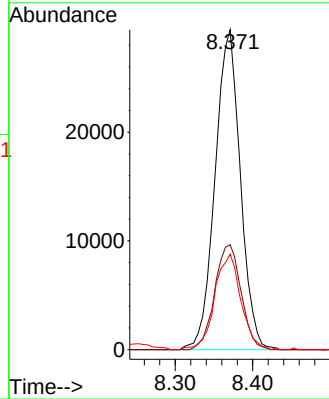
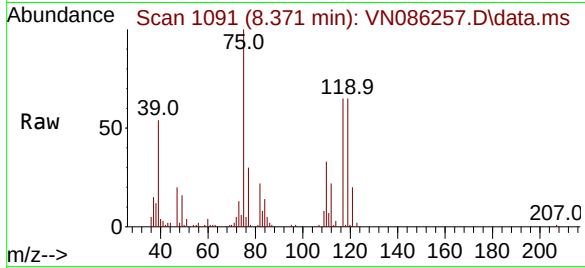
Tgt Ion:	75	Resp:	6671
Ion	Ratio	Lower	Upper
75	100		
110	34.1	0.0	68.6
77	30.9	0.0	63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#30

2-Butanone

Concen: 87.649 ug/l

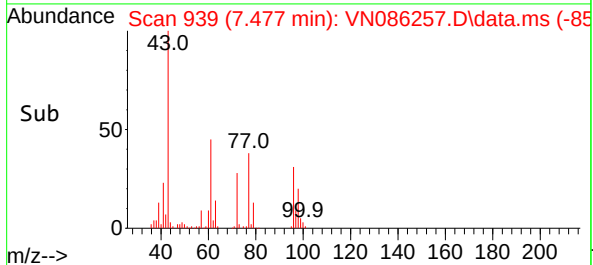
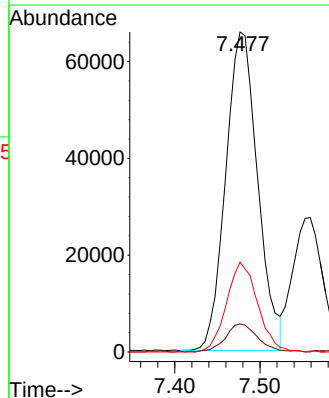
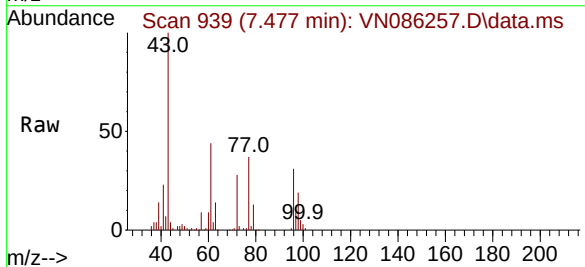
RT: 7.477 min Scan# 939

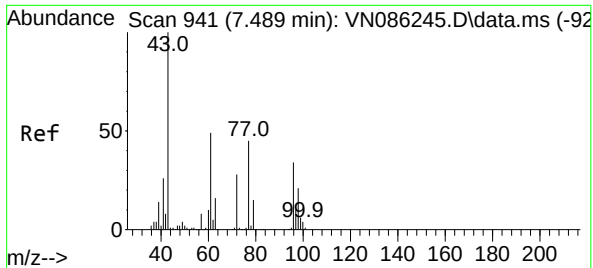
Delta R.T. -0.006 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

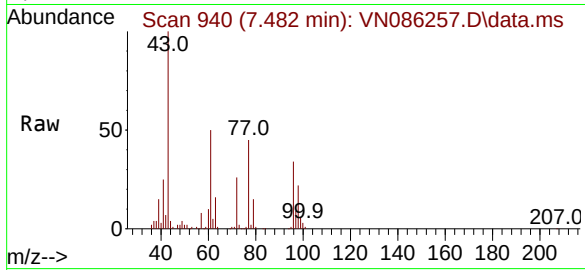
Tgt Ion:	43	Resp:	171707
Ion	Ratio	Lower	Upper
43	100		
57	8.8	6.4	9.6
72	27.3	21.5	32.3





#31
2,2-Dichloropropane
Concen: 19.429 ug/l
RT: 7.482 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

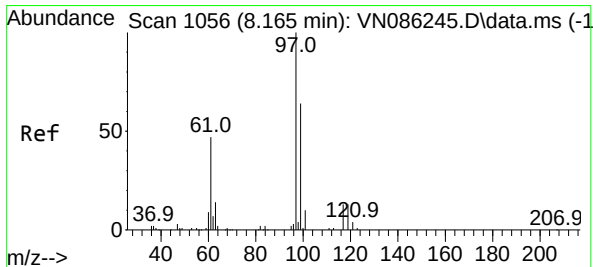
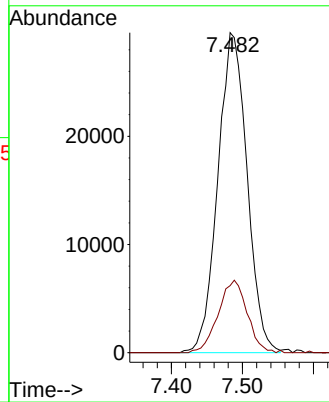
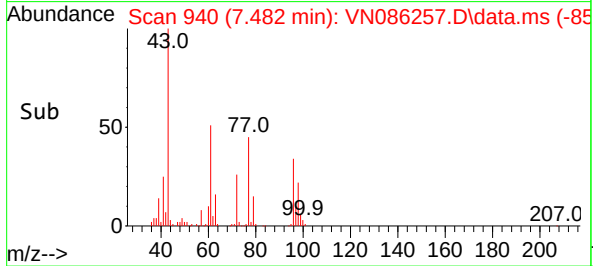
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



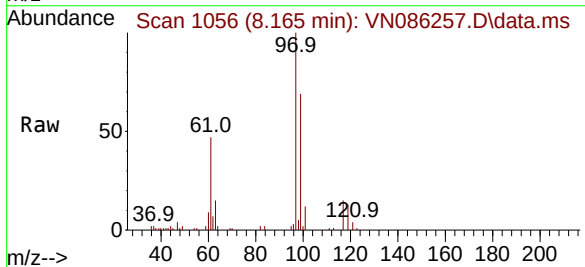
Tgt Ion: 77 Resp: 84554
Ion Ratio Lower Upper
77 100
97 22.4 18.8 28.2

Manual Integrations
APPROVED

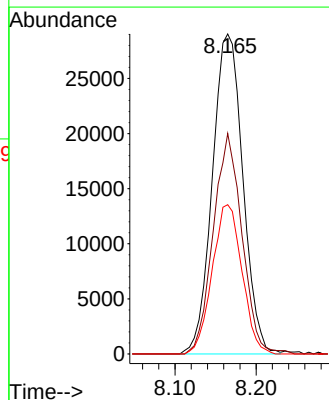
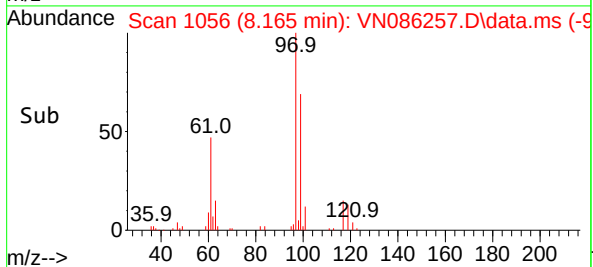
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

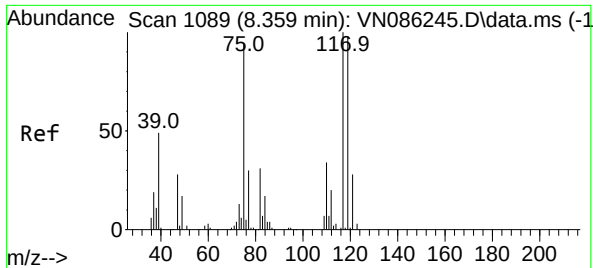


#32
1,1,1-Trichloroethane
Concen: 18.645 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48



Tgt Ion: 97 Resp: 75829
Ion Ratio Lower Upper
97 100
99 64.7 51.4 77.2
61 45.5 37.0 55.6





#33

Carbon Tetrachloride

Concen: 18.867 ug/l

RT: 8.353 min Scan# 1088

Delta R.T. -0.006 min

Lab File: VN086257.D

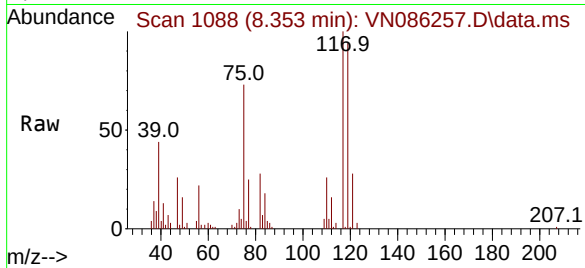
Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020



Tgt Ion:117 Resp: 61318

Ion Ratio Lower Upper

117 100

119 94.2 78.3 117.5

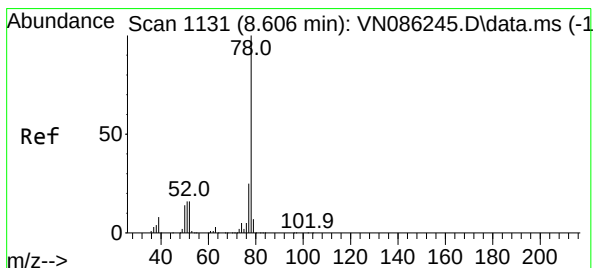
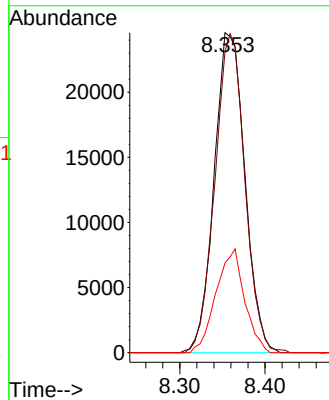
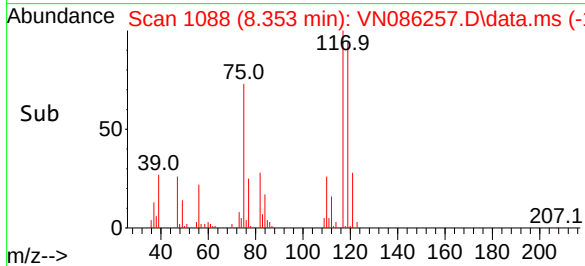
121 28.0 22.5 33.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#34

Benzene

Concen: 18.775 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

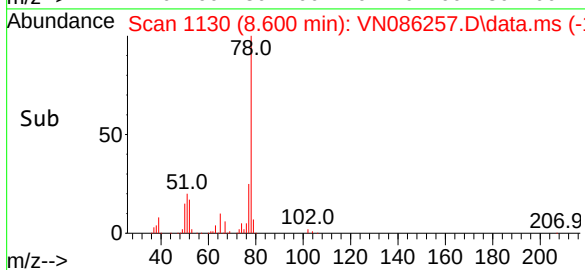
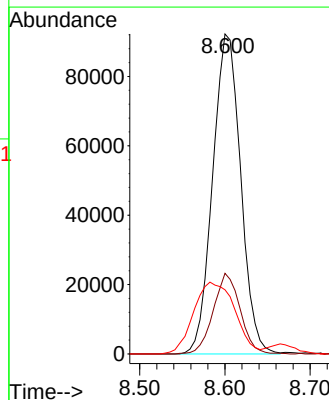
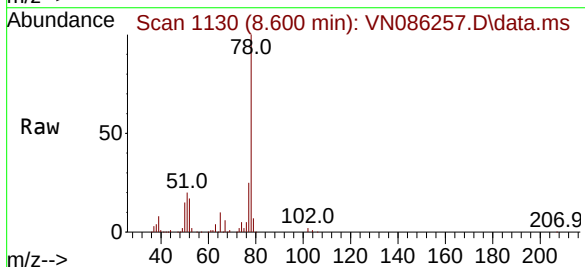
Tgt Ion: 78 Resp: 211172

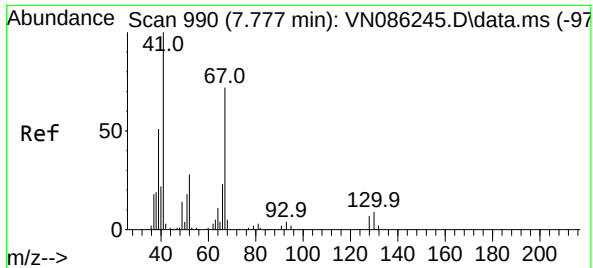
Ion Ratio Lower Upper

78 100

77 25.0 20.0 30.0

51 16.9 12.9 19.3





#35

Methacrylonitrile

Concen: 17.817 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 41 Resp: 39350

Ion Ratio Lower Upper

41 100

39 58.0 25.8 77.3

67 75.8 36.0 108.0

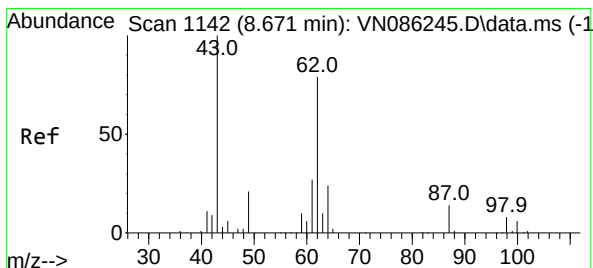
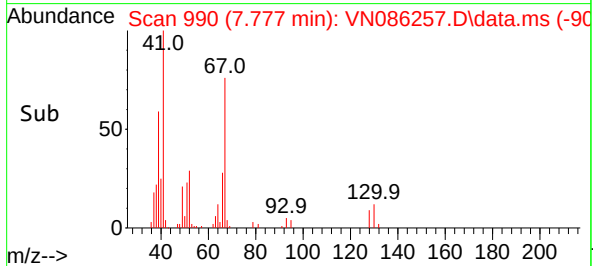
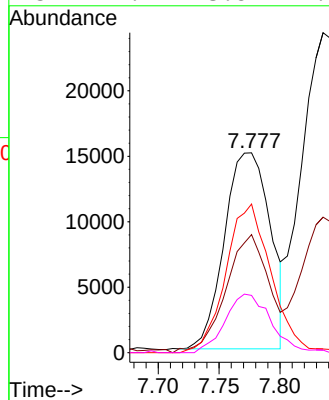
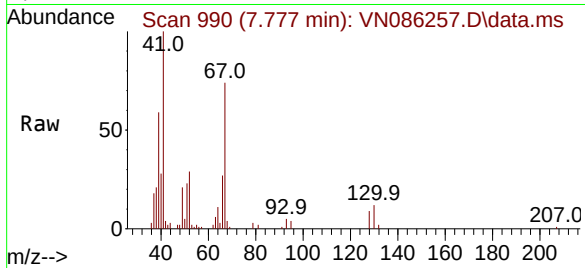
52 29.2 13.8 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#36

1,2-Dichloroethane

Concen: 19.155 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN086257.D

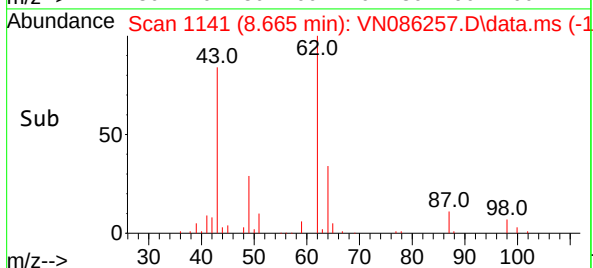
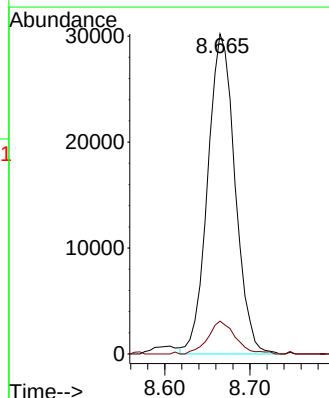
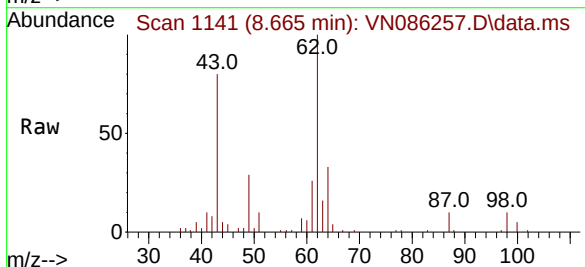
Acq: 14 Apr 2025 09:48

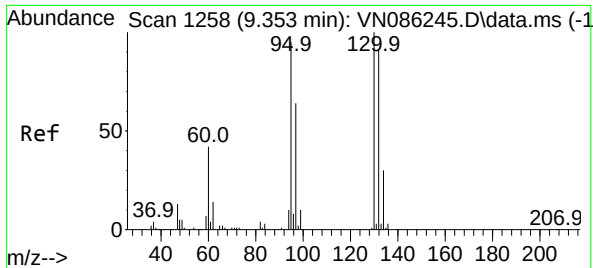
Tgt Ion: 62 Resp: 67422

Ion Ratio Lower Upper

62 100

98 10.2 8.6 12.8





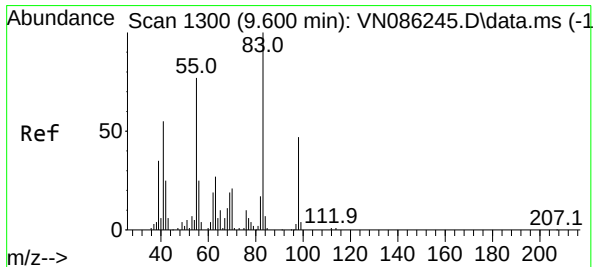
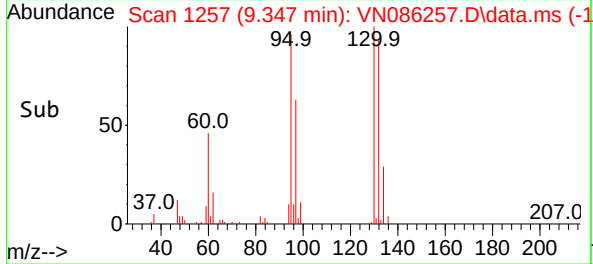
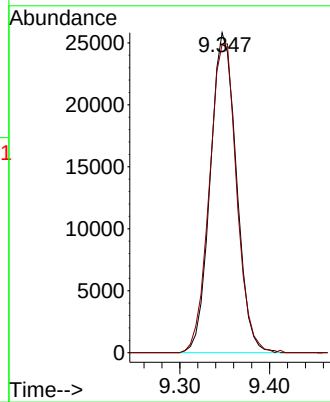
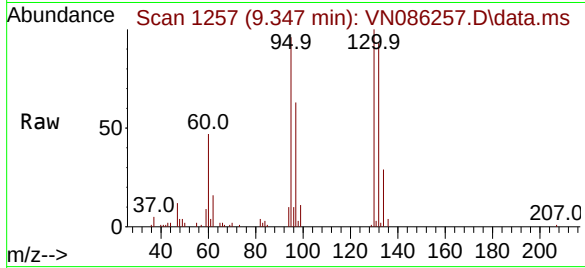
#37
Trichloroethene
Concen: 19.222 ug/l
RT: 9.347 min Scan# 1257
Delta R.T. -0.006 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 130 Resp: 5216
Ion Ratio Lower Upper
130 100
95 96.3 76.4 114.6

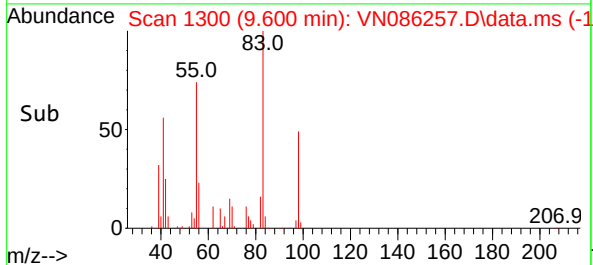
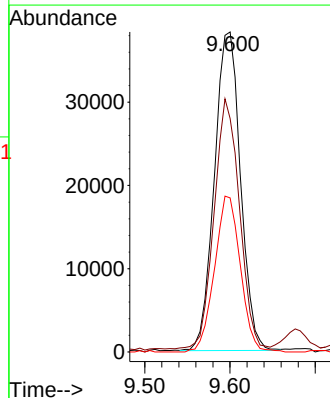
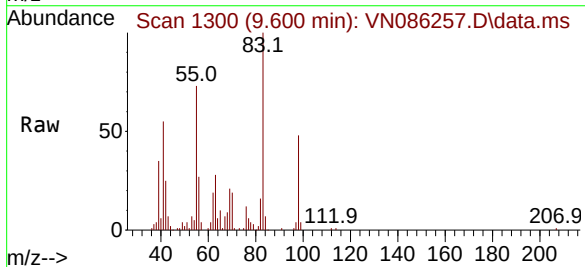
Manual Integrations
APPROVED

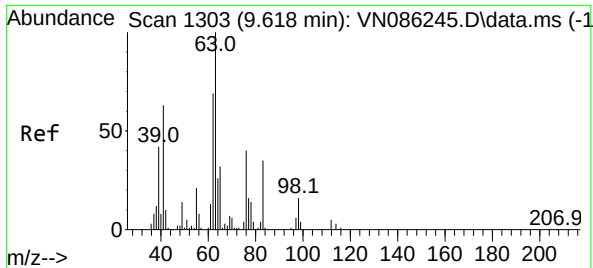
Reviewed By : John Carlone 04/16/2025
Supervised By : Semsettin Yesilyurt 04/16/2025



#38
Methylcyclohexane
Concen: 18.783 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Tgt Ion: 83 Resp: 81444
Ion Ratio Lower Upper
83 100
55 76.4 38.5 115.5
98 48.4 24.4 73.2





#39

1,2-Dichloropropane

Concen: 18.907 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 63 Resp: 5291

Ion Ratio Lower Upper

63 100

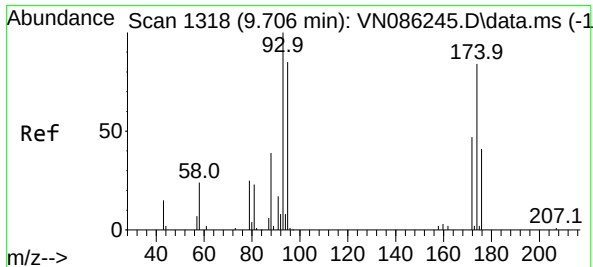
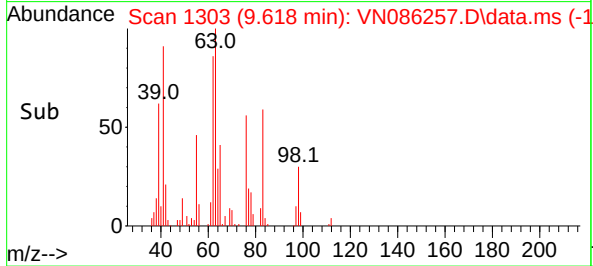
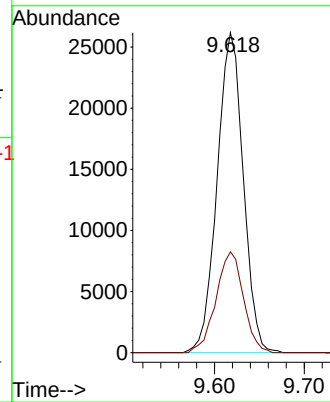
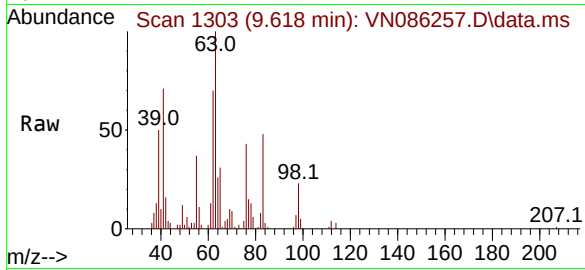
65 31.5 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Dibromomethane

Concen: 18.422 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

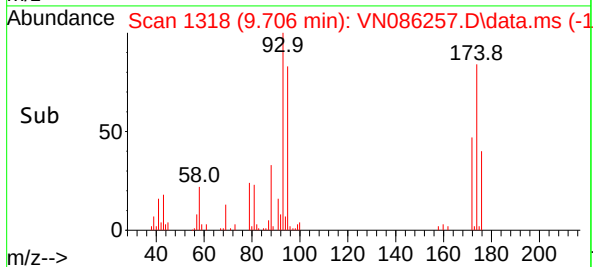
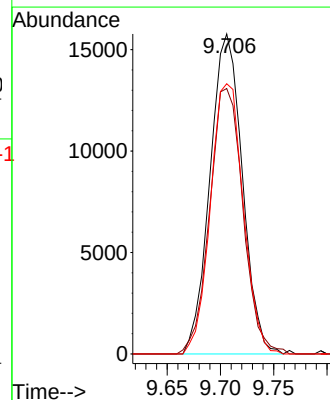
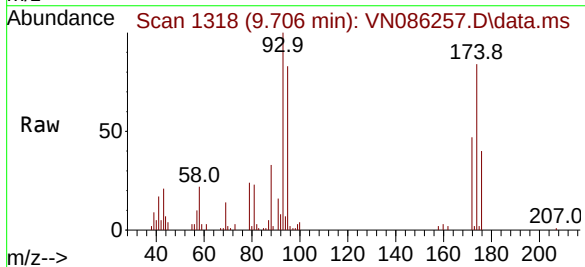
Tgt Ion: 93 Resp: 33301

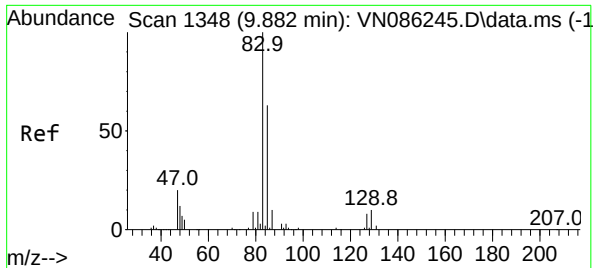
Ion Ratio Lower Upper

93 100

95 85.4 0.0 169.0

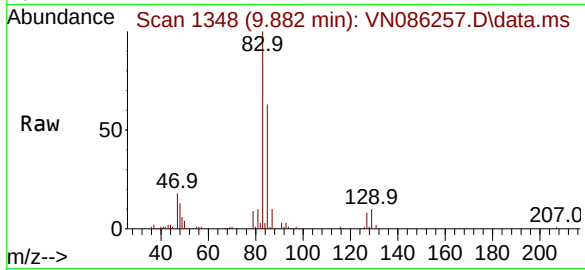
174 85.6 0.0 168.0





#41
Bromodichloromethane
Concen: 18.478 ug/l
RT: 9.882 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

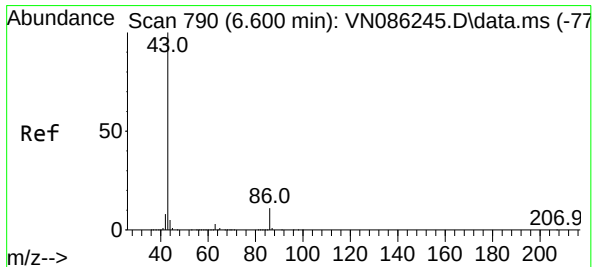
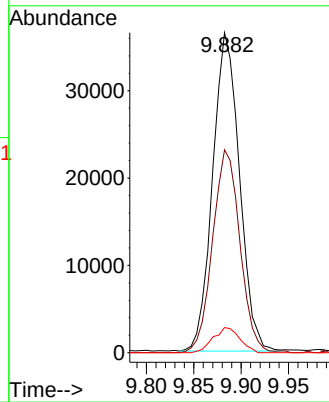
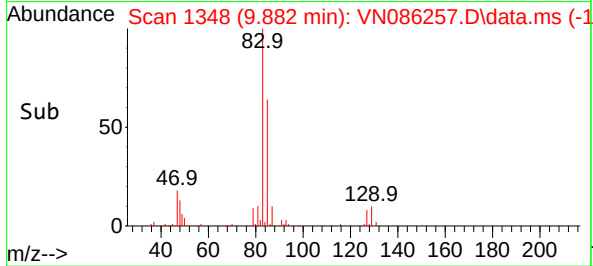
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 83 Resp: 71754
Ion Ratio Lower Upper
83 100
85 63.7 50.2 75.2
127 7.9 6.2 9.4

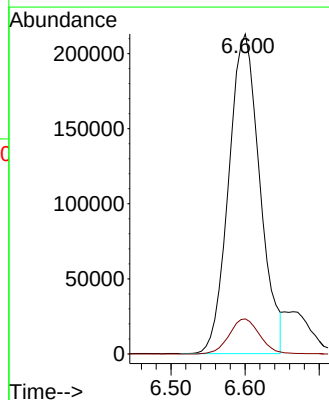
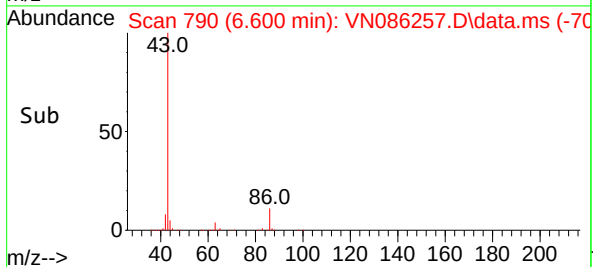
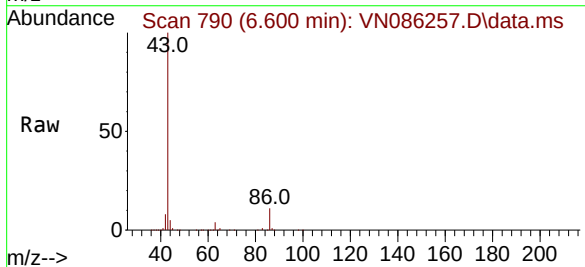
Manual Integrations
APPROVED

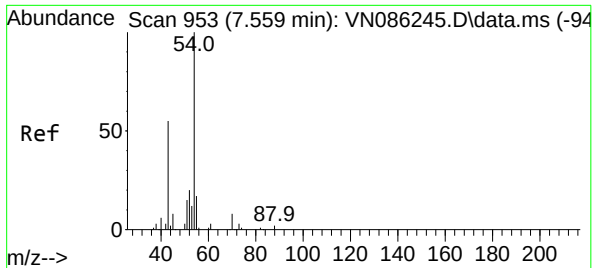
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#42
Vinyl Acetate
Concen: 93.065 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

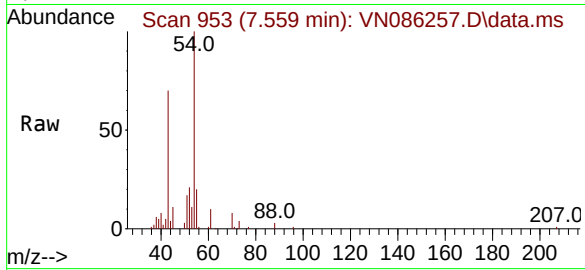
Tgt Ion: 43 Resp: 620604
Ion Ratio Lower Upper
43 100
86 10.8 8.4 12.6





#43
Ethyl Acetate
Concen: 17.853 ug/l m
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

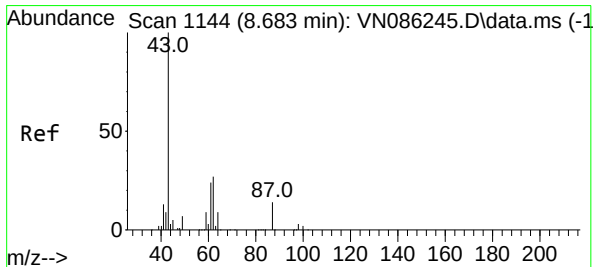
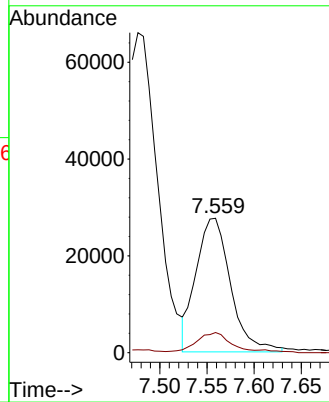
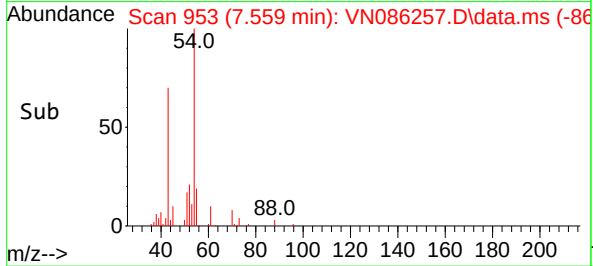
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 43 Resp: 7054
Ion Ratio Lower Upper
43 100
45 14.8 11.2 16.8

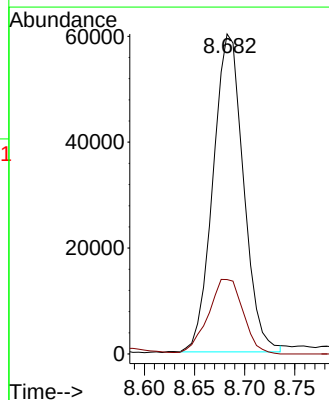
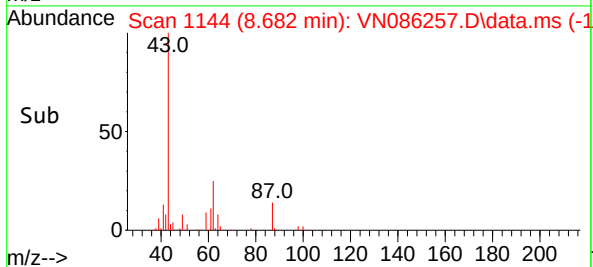
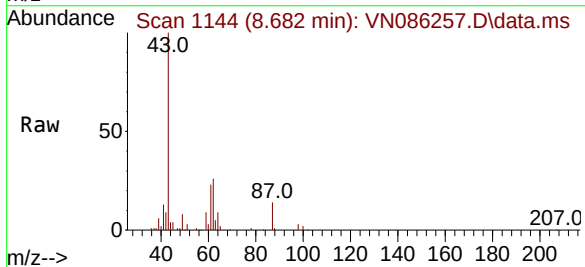
Manual Integrations
APPROVED

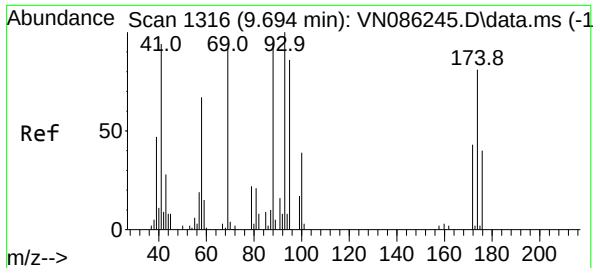
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#44
Isopropyl Acetate
Concen: 17.314 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Tgt Ion: 43 Resp: 126923
Ion Ratio Lower Upper
43 100
61 27.0 20.5 30.7





#45

1,4-Dioxane

Concen: 364.534 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 88 Resp: 21249

Ion Ratio Lower Upper

88 100

43 28.8 14.4 21.6

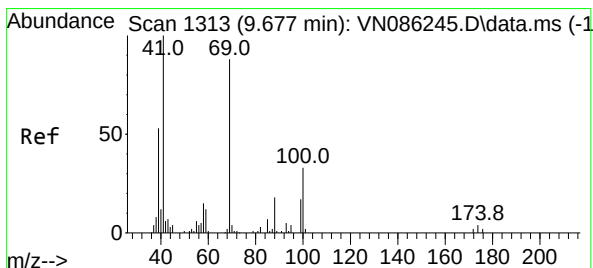
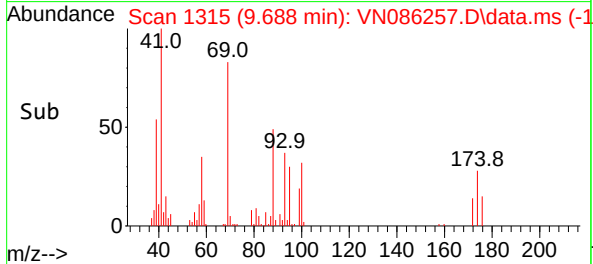
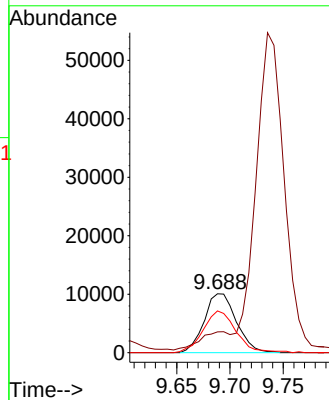
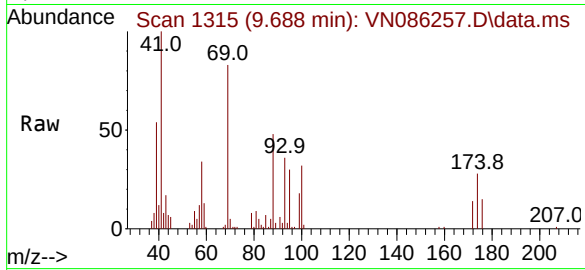
58 71.8 59.8 89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#46

Methyl methacrylate

Concen: 18.242 ug/l

RT: 9.676 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

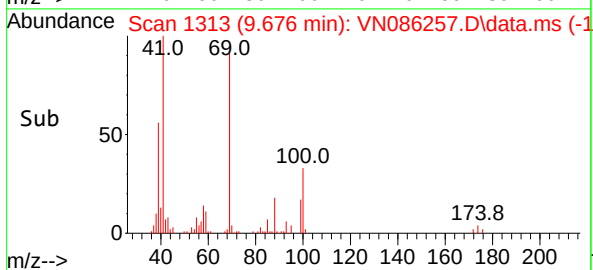
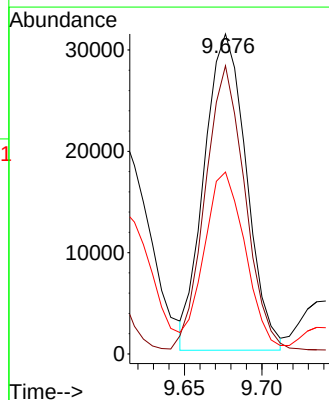
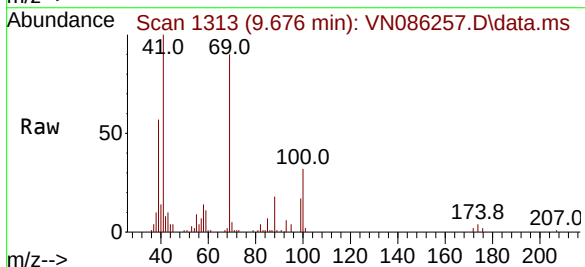
Tgt Ion: 41 Resp: 58920

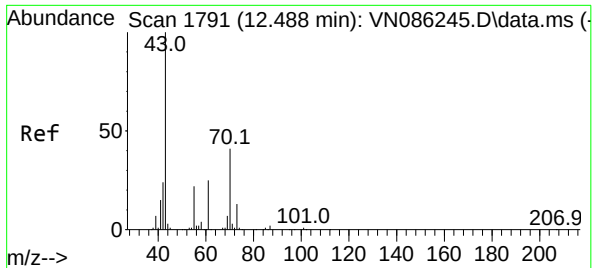
Ion Ratio Lower Upper

41 100

69 91.1 43.2 129.6

39 57.0 26.4 79.0





#47

n-amy1 Acetate

Concen: 17.197 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VN086257.D

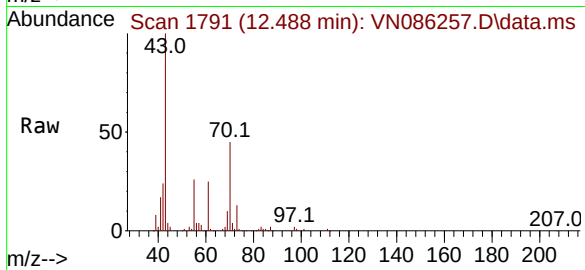
Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020



Tgt Ion: 43 Resp: 99949

Ion Ratio Lower Upper

43 100

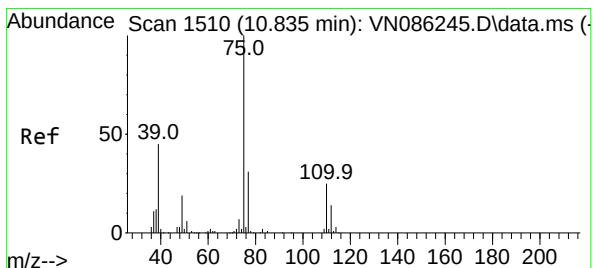
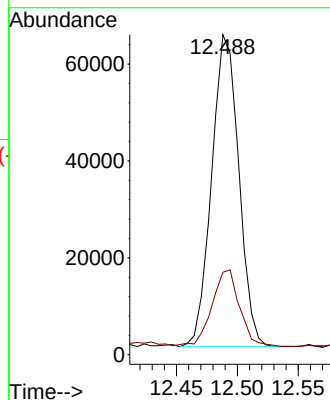
55 24.4 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#48

t-1,3-Dichloropropene

Concen: 18.586 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. -0.000 min

Lab File: VN086257.D

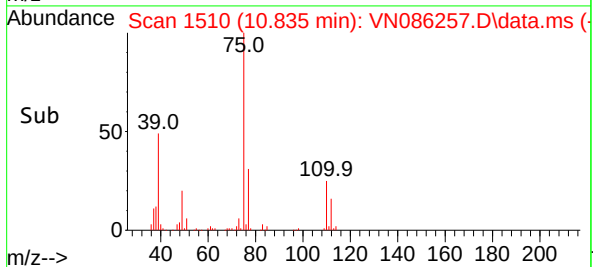
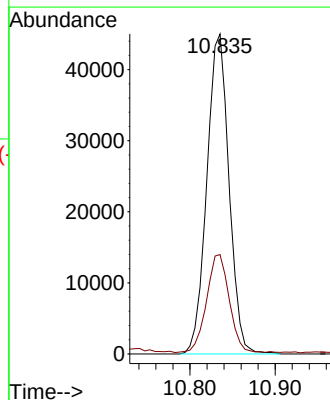
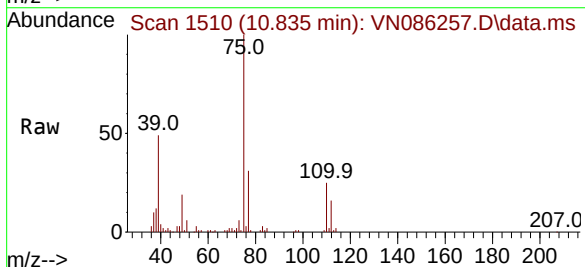
Acq: 14 Apr 2025 09:48

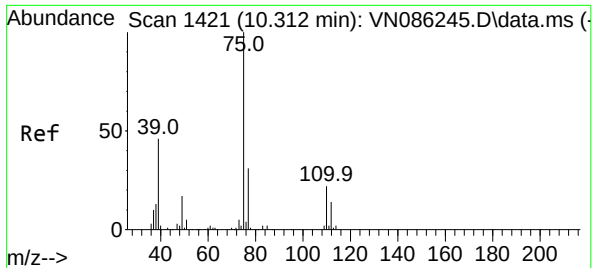
Tgt Ion: 75 Resp: 81596

Ion Ratio Lower Upper

75 100

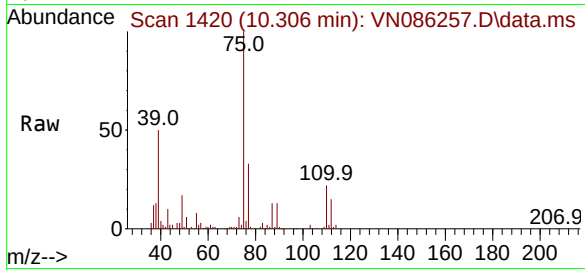
77 30.5 25.1 37.7





#49
 cis-1,3-Dichloropropene
 Concen: 18.832 ug/l
 RT: 10.306 min Scan# 1421
 Delta R.T. -0.006 min
 Lab File: VN086257.D
 Acq: 14 Apr 2025 09:48

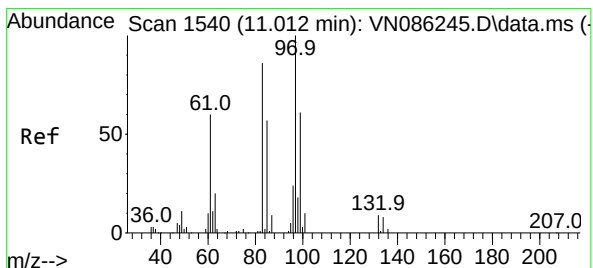
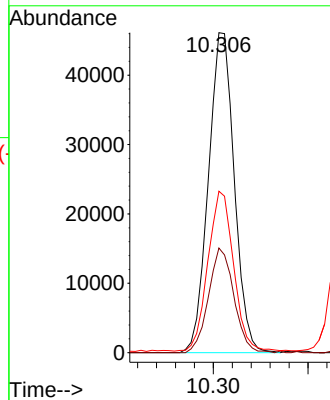
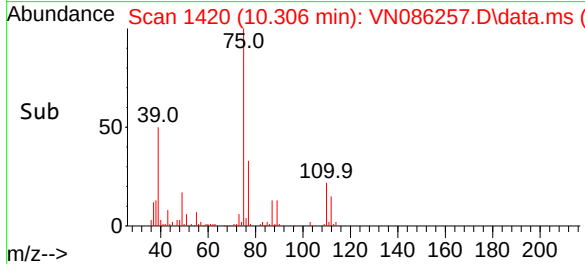
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020



Tgt Ion: 75 Resp: 8750
 Ion Ratio Lower Upper
 75 100
 77 32.7 25.0 37.4
 39 49.8 36.7 55.1

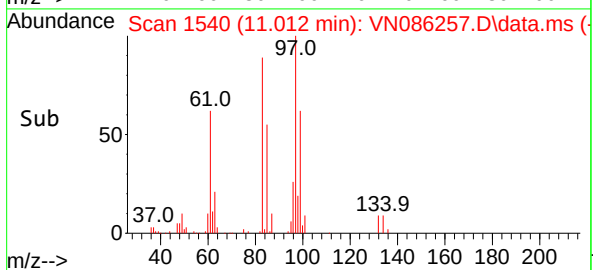
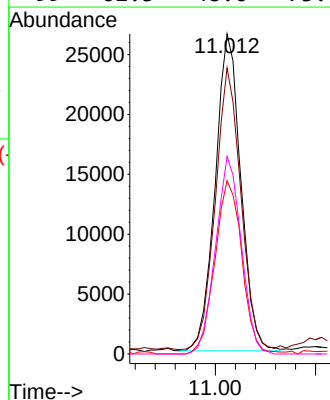
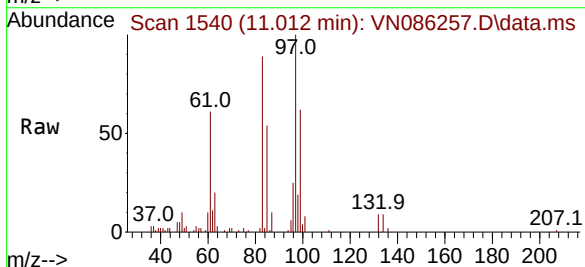
Manual Integrations
 APPROVED

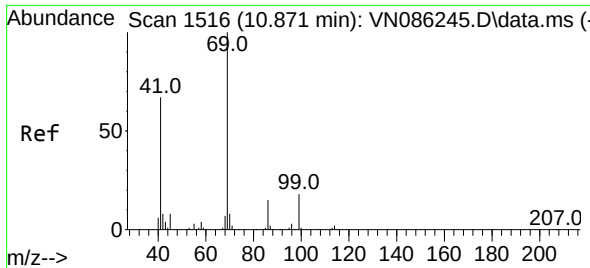
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025



#50
 1,1,2-Trichloroethane
 Concen: 18.457 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. -0.000 min
 Lab File: VN086257.D
 Acq: 14 Apr 2025 09:48

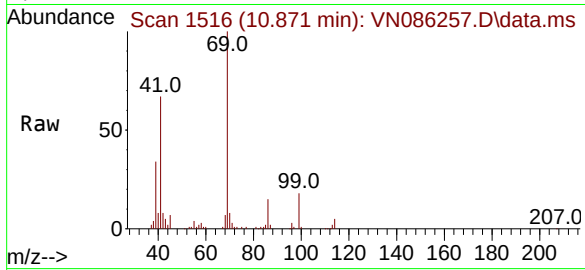
Tgt Ion: 97 Resp: 46793
 Ion Ratio Lower Upper
 97 100
 83 89.0 68.6 103.0
 85 54.7 45.9 68.9
 99 62.3 48.6 73.0





#51
Ethyl methacrylate
Concen: 17.910 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

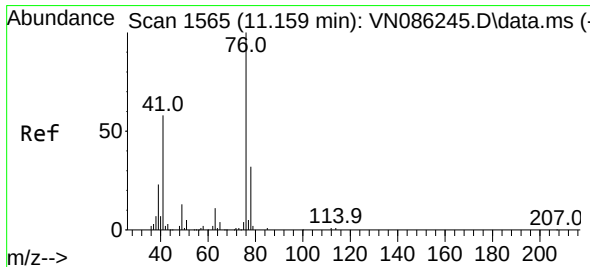
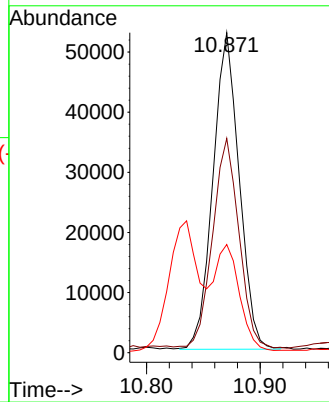
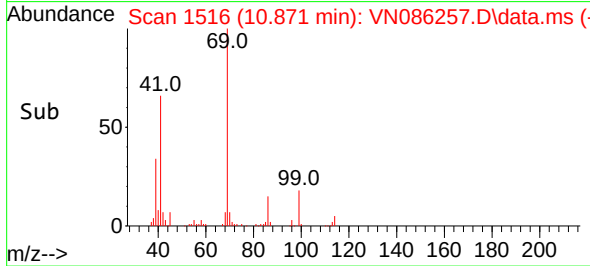
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 69 Resp: 8438
Ion Ratio Lower Upper
69 100
41 66.2 33.6 100.6
39 33.5 17.8 53.4

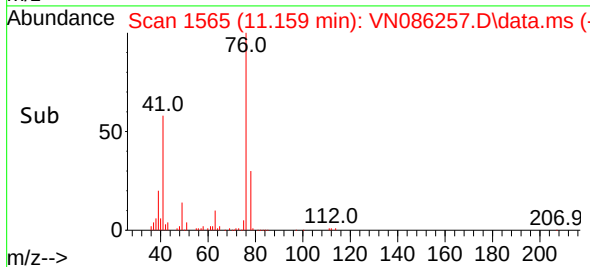
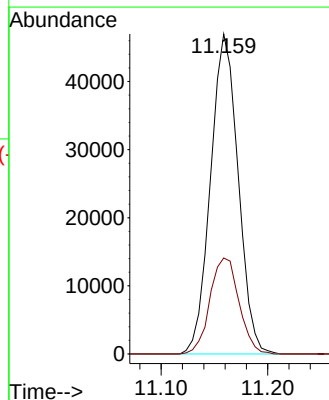
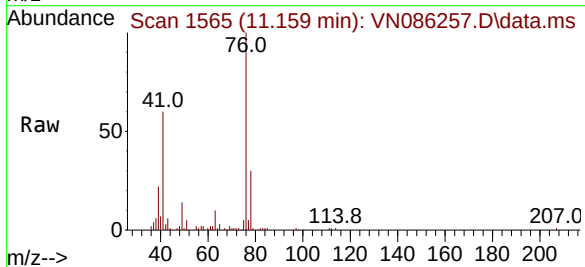
Manual Integrations
APPROVED

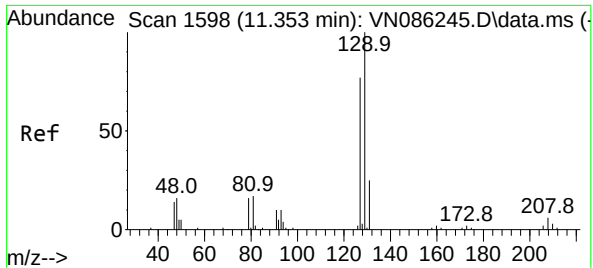
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#52
1,3-Dichloropropane
Concen: 18.712 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

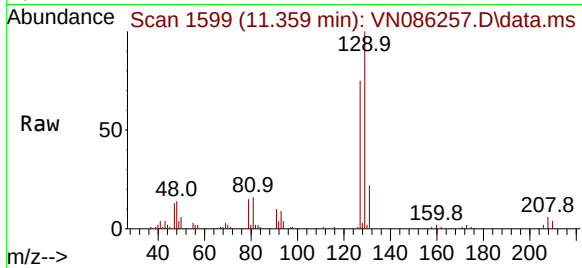
Tgt Ion: 76 Resp: 84556
Ion Ratio Lower Upper
76 100
78 31.5 0.0 64.6





#53
Dibromochloromethane
Concen: 18.691 ug/l
RT: 11.359 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

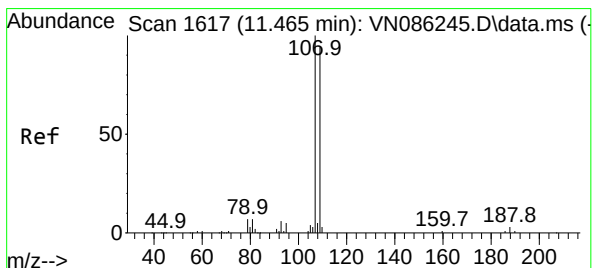
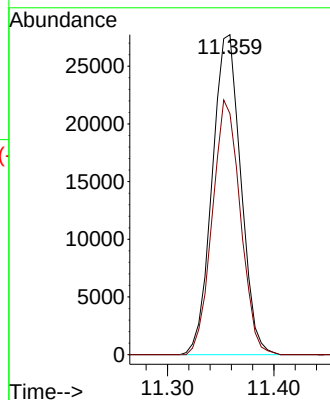
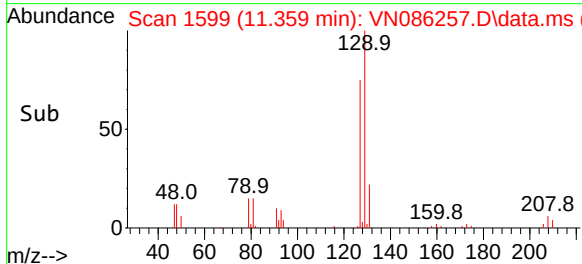
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:129 Resp: 5183
Ion Ratio Lower Upper
129 100
127 77.8 38.5 115.5

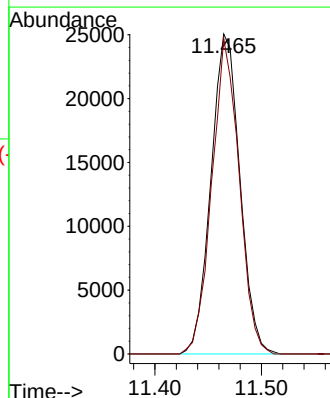
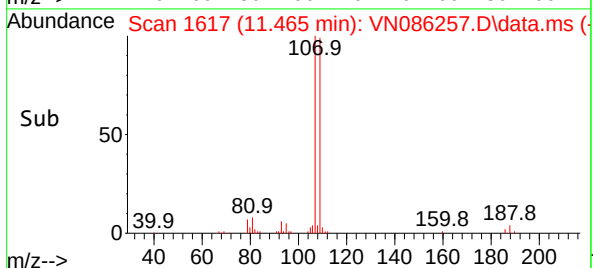
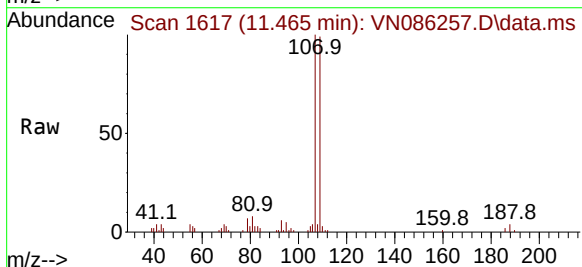
Manual Integrations
APPROVED

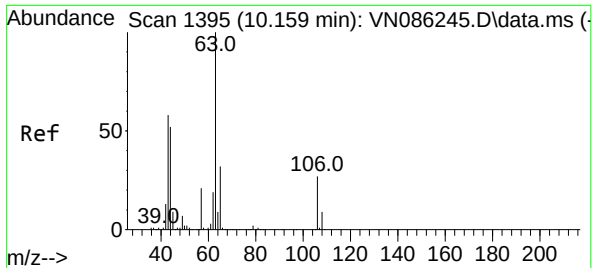
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#54
1,2-Dibromoethane
Concen: 18.482 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

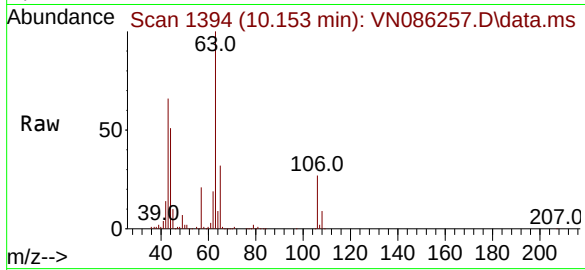
Tgt Ion:107 Resp: 47300
Ion Ratio Lower Upper
107 100
109 92.9 75.2 112.8





#55
2-Chloroethyl vinyl ether
Concen: 110.673 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

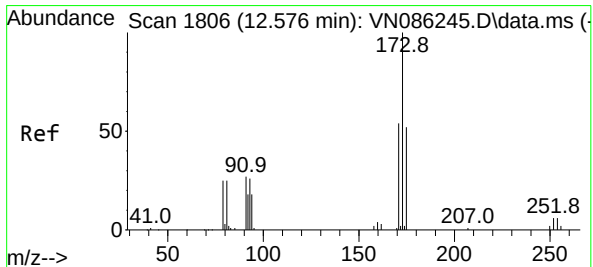
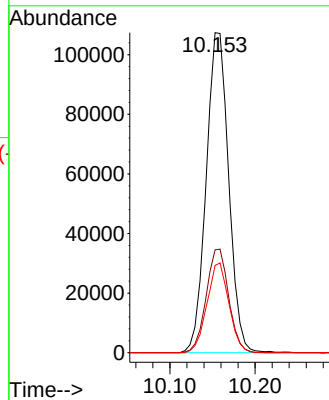
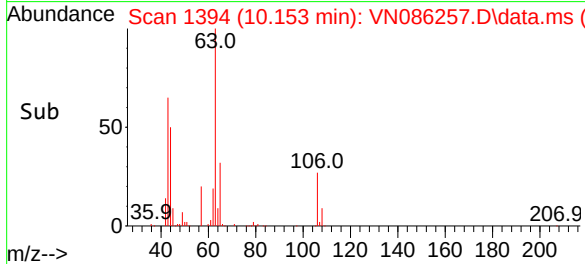
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 63 Resp: 19703
Ion Ratio Lower Upper
63 100
65 32.2 25.8 38.8
106 27.3 21.8 32.8

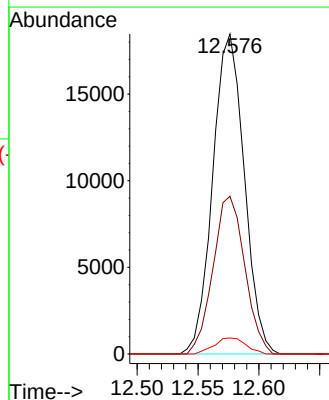
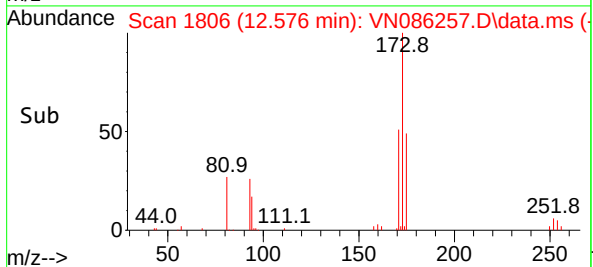
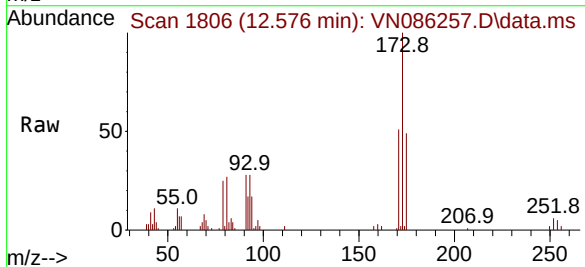
Manual Integrations
APPROVED

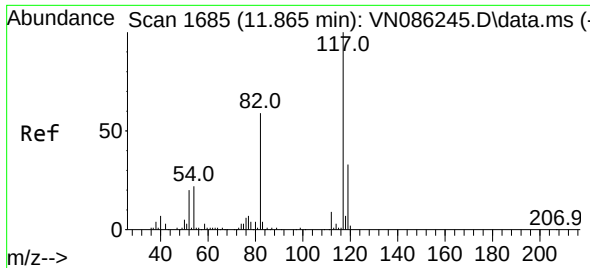
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#56
Bromoform
Concen: 18.314 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

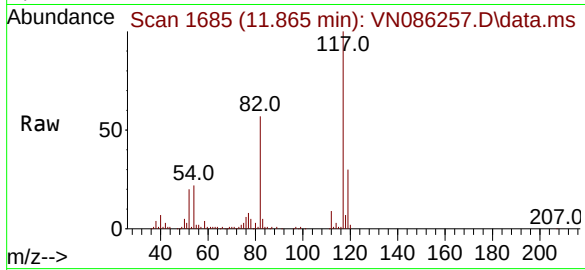
Tgt Ion:173 Resp: 33228
Ion Ratio Lower Upper
173 100
175 49.7 38.2 57.4
254 5.1 4.5 6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

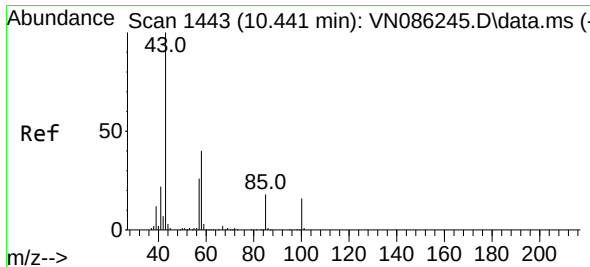
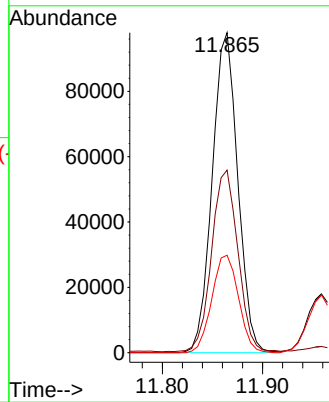
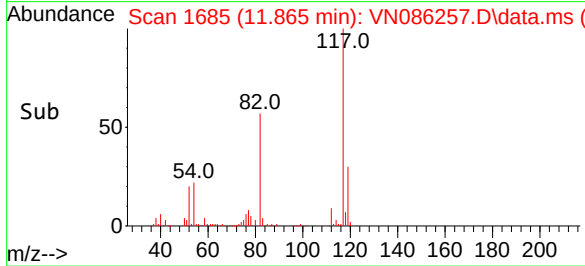
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 117 Resp: 173474
Ion Ratio Lower Upper
117 100
82 58.2 47.3 70.9
119 31.8 25.9 38.9

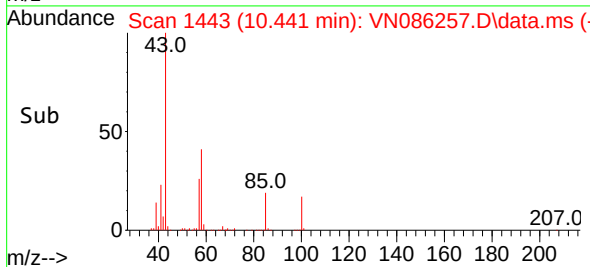
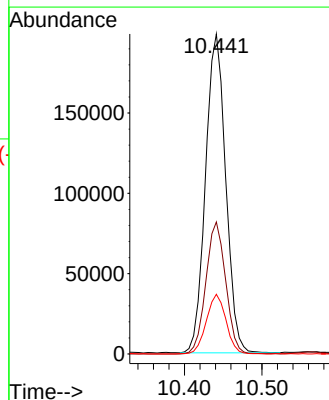
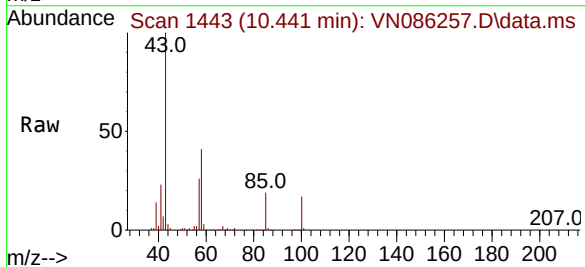
Manual Integrations
APPROVED

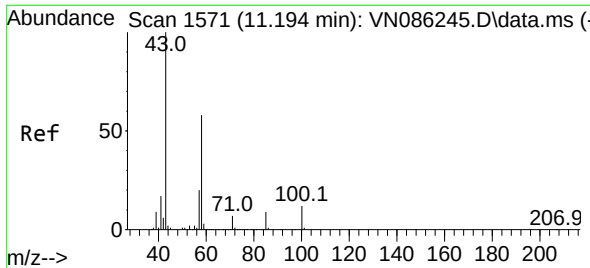
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#58
4-Methyl-2-Pentanone
Concen: 91.099 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

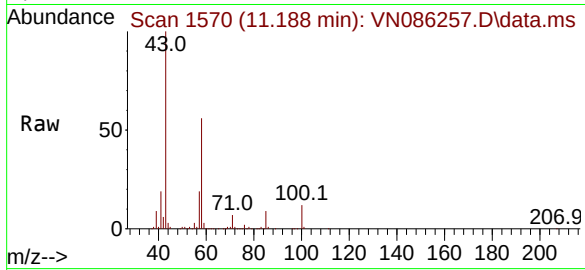
Tgt Ion: 43 Resp: 358624
Ion Ratio Lower Upper
43 100
58 40.6 32.5 48.7
85 18.3 14.4 21.6





#59
2-Hexanone
Concen: 90.316 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.006 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

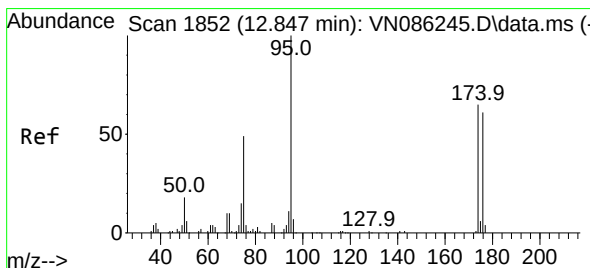
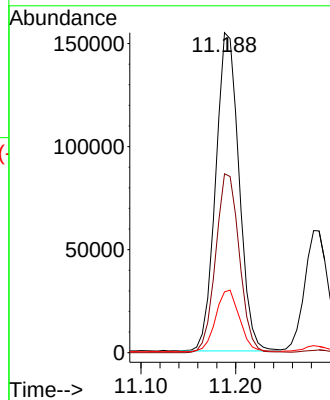
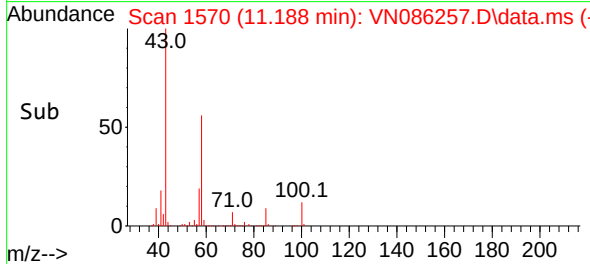
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 43 Resp: 264740
Ion Ratio Lower Upper
43 100
58 57.1 45.3 67.9
57 19.6 15.8 23.6

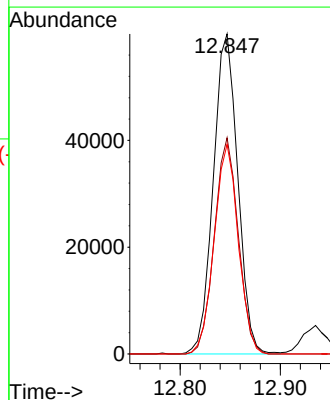
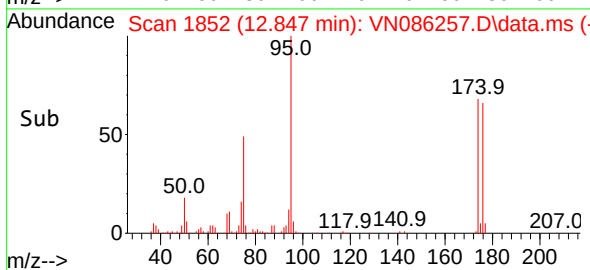
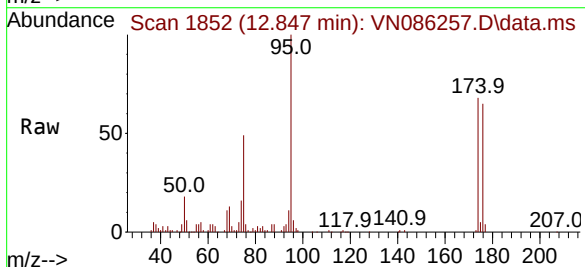
Manual Integrations
APPROVED

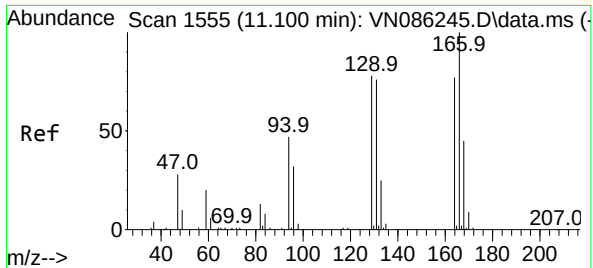
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#60
4-Bromofluorobenzene
Concen: 29.439 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

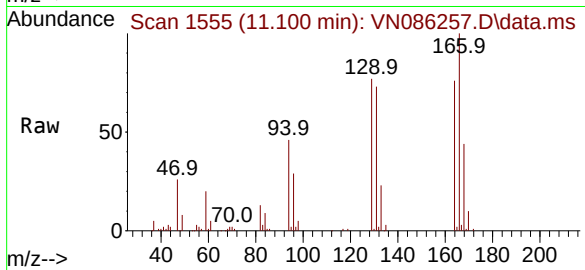
Tgt Ion: 95 Resp: 101678
Ion Ratio Lower Upper
95 100
174 66.0 52.7 79.1
176 64.3 49.8 74.8





#61
Tetrachloroethene
Concen: 19.384 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

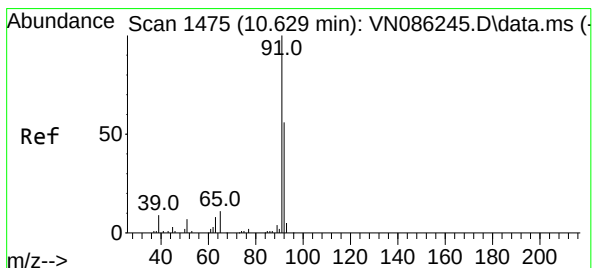
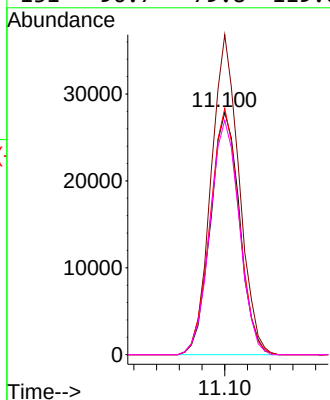
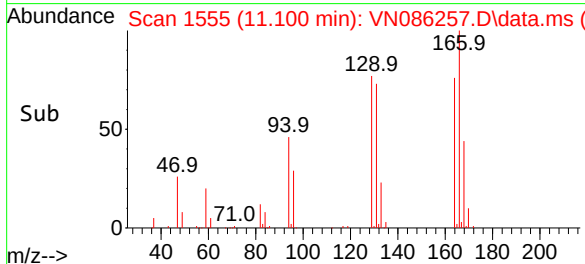
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:164 Resp: 49659
Ion Ratio Lower Upper
164 100
166 132.1 104.5 156.7
129 101.6 81.7 122.5
131 96.7 79.8 119.6

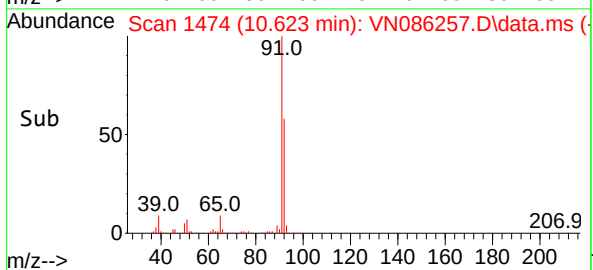
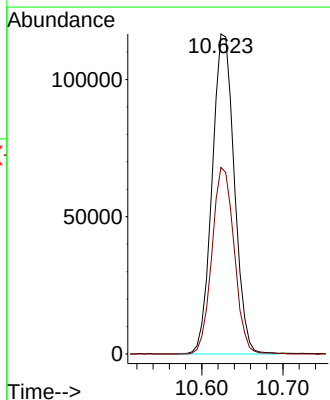
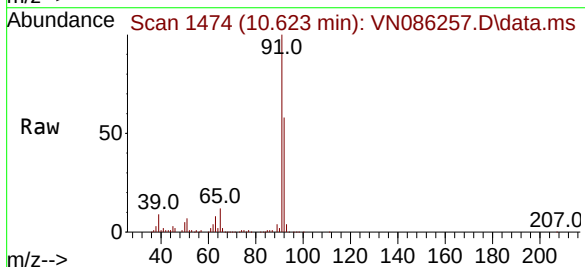
Manual Integrations
APPROVED

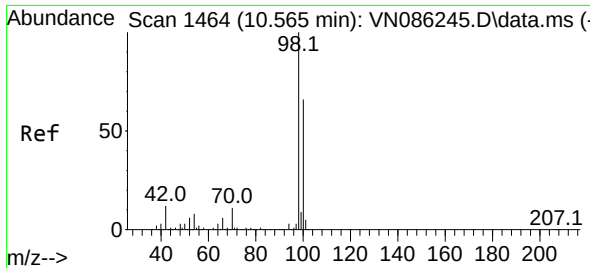
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#62
Toluene
Concen: 19.032 ug/l
RT: 10.623 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

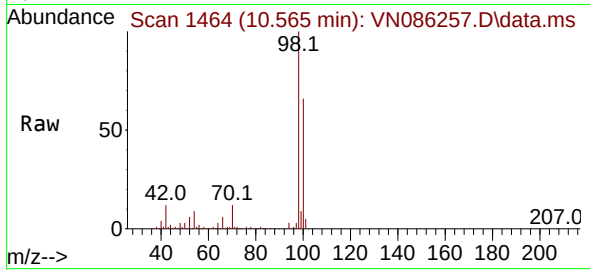
Tgt Ion: 91 Resp: 221443
Ion Ratio Lower Upper
91 100
92 58.3 46.8 70.2





#63
Toluene-d8
Concen: 29.915 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

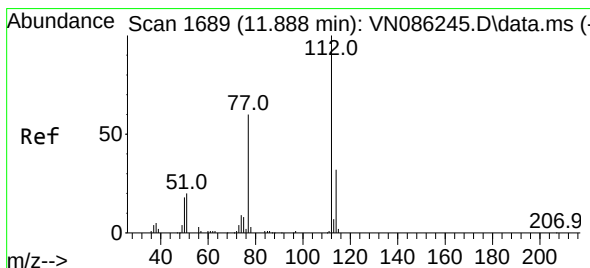
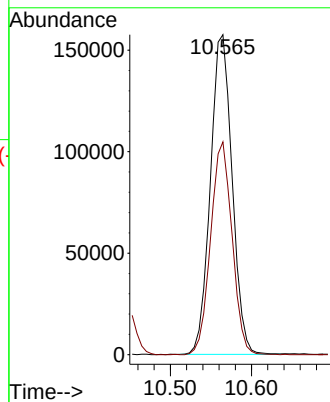
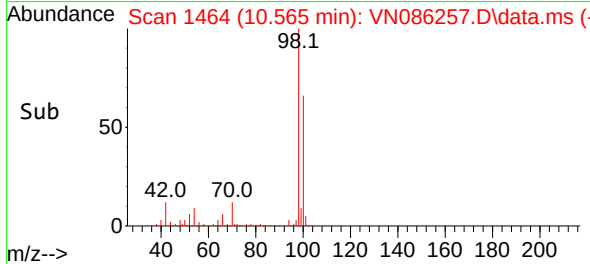
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 98 Resp: 292978
Ion Ratio Lower Upper
98 100
100 65.6 52.3 78.5

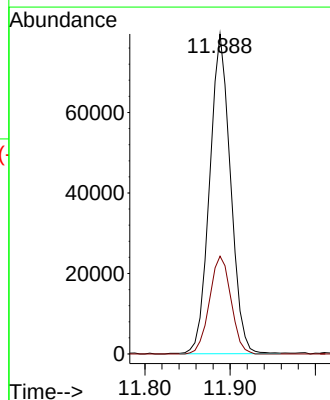
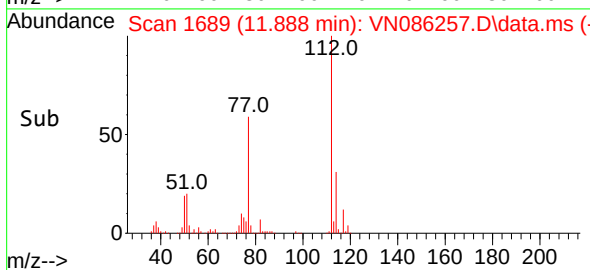
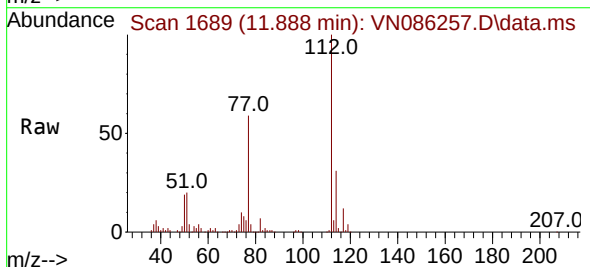
Manual Integrations
APPROVED

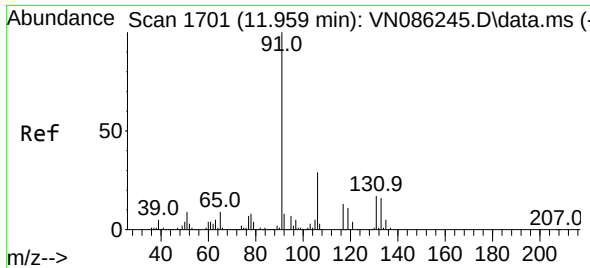
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#64
Chlorobenzene
Concen: 19.013 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

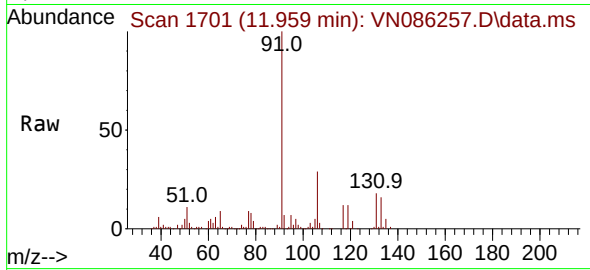
Tgt Ion:112 Resp: 135157
Ion Ratio Lower Upper
112 100
114 30.6 25.8 38.6





#65
1,1,1,2-Tetrachloroethane
Concen: 19.109 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

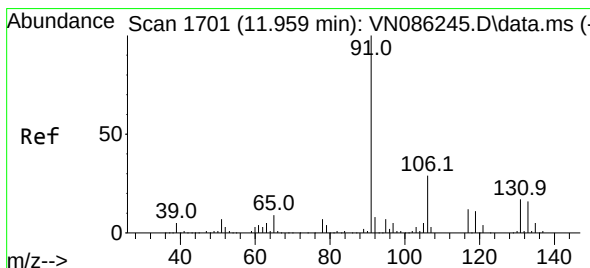
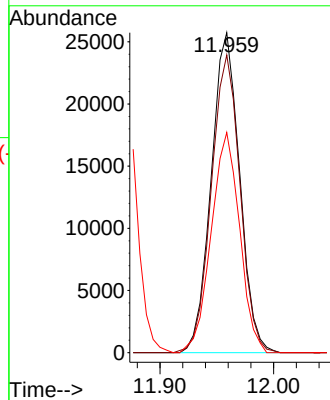
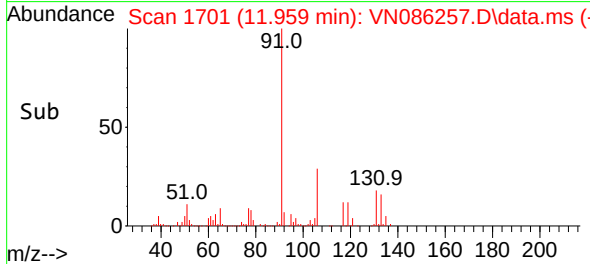
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:131 Resp: 4483
Ion Ratio Lower Upper
131 100
133 93.7 0.0 190.4
119 68.6 0.0 135.6

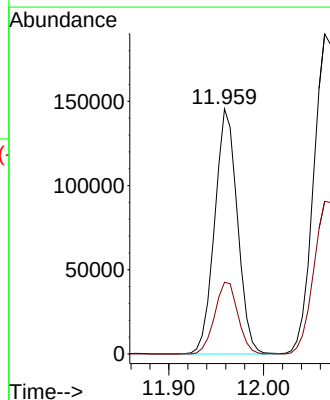
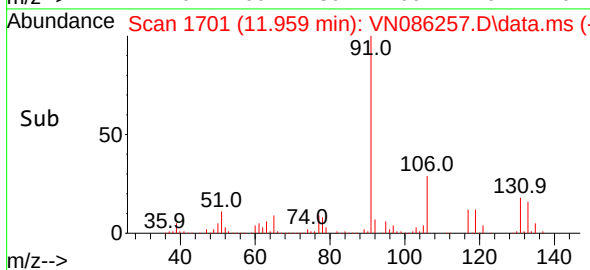
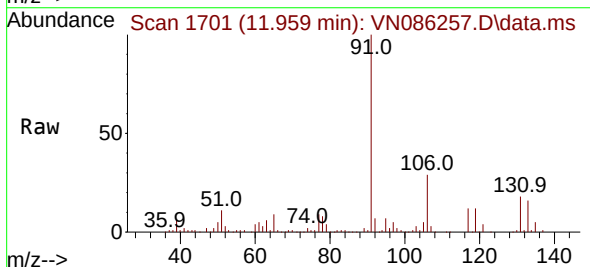
Manual Integrations
APPROVED

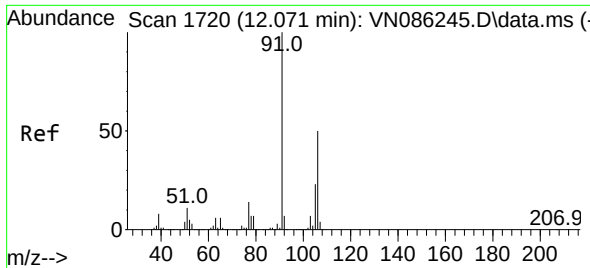
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#66
Ethyl Benzene
Concen: 18.804 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

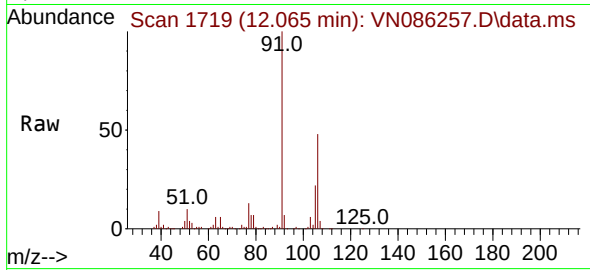
Tgt Ion: 91 Resp: 242647
Ion Ratio Lower Upper
91 100
106 29.3 23.4 35.0





#67
m/p-Xylenes
Concen: 37.610 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

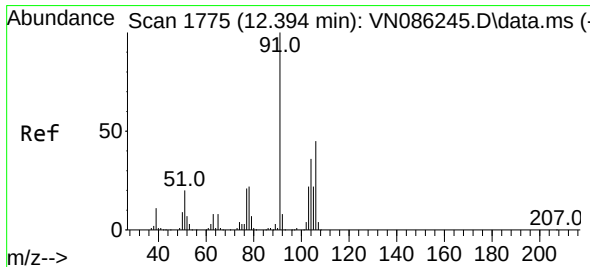
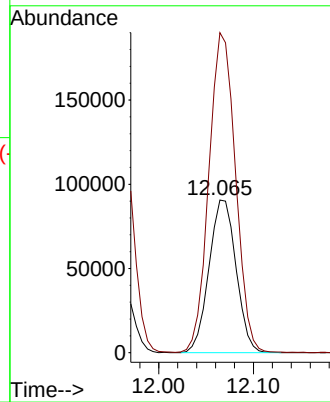
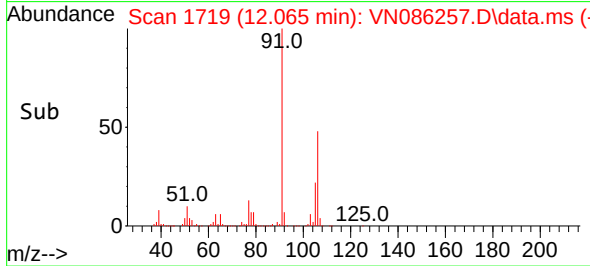
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:106 Resp: 18045
Ion Ratio Lower Upper
106 100
91 205.9 164.5 246.7

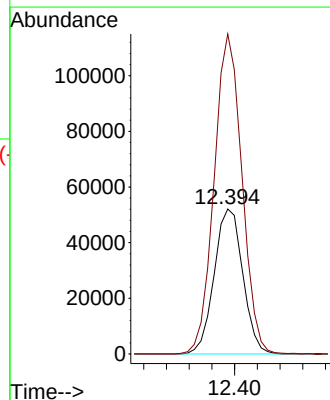
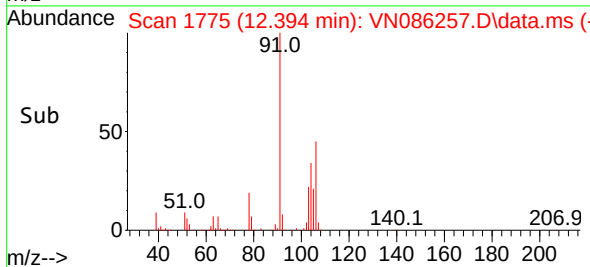
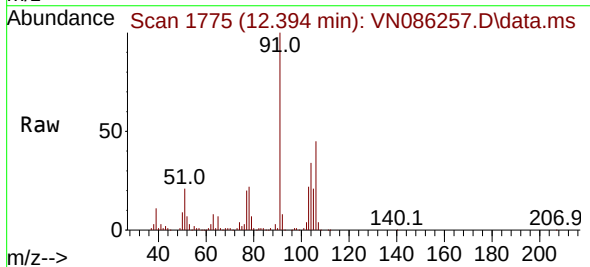
Manual Integrations
APPROVED

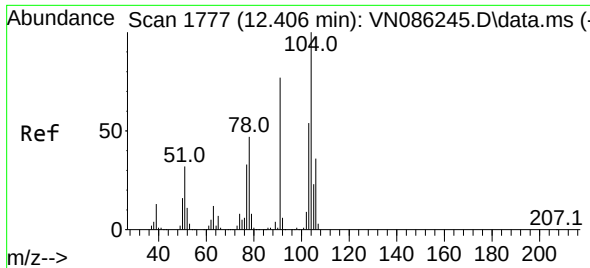
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#68
o-Xylene
Concen: 19.296 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

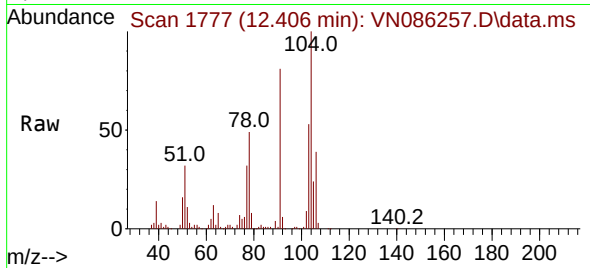
Tgt Ion:106 Resp: 91065
Ion Ratio Lower Upper
106 100
91 214.7 109.8 329.4





#69
Styrene
Concen: 18.708 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

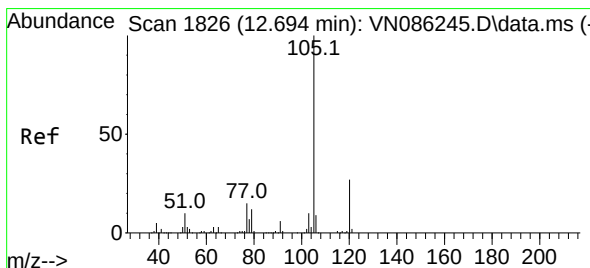
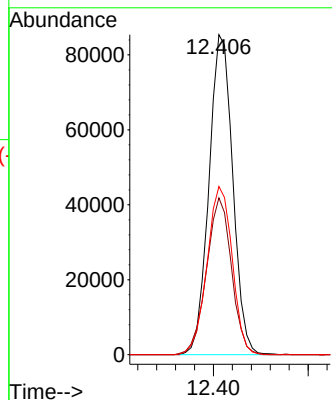
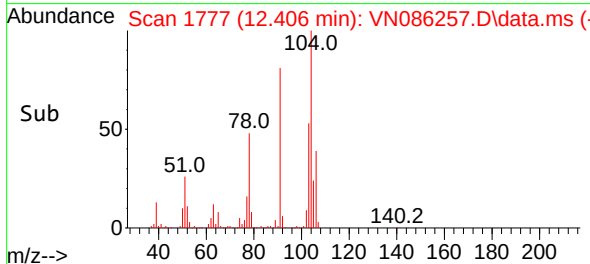
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:104 Resp: 14890
Ion Ratio Lower Upper
104 100
78 51.4 41.4 62.0
103 55.6 44.2 66.4

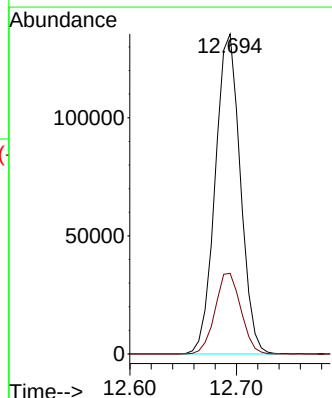
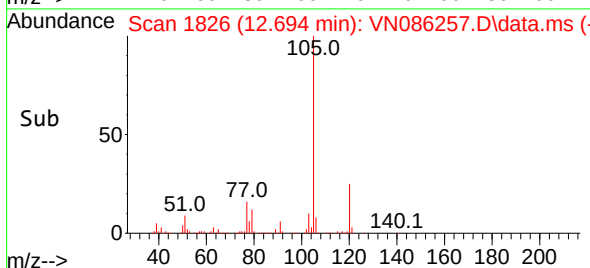
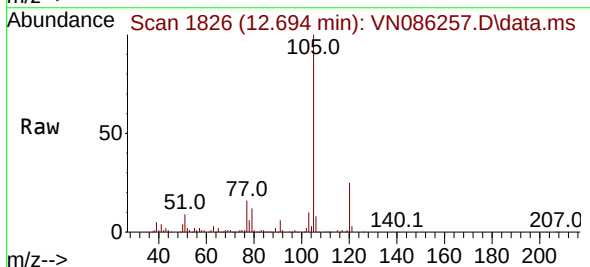
Manual Integrations
APPROVED

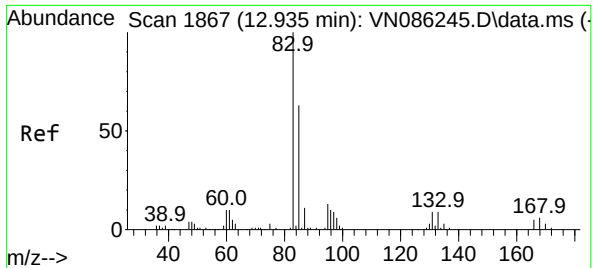
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#70
Isopropylbenzene
Concen: 19.063 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

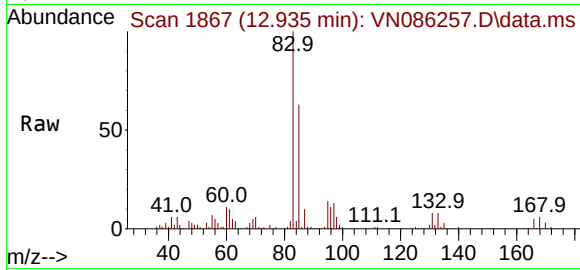
Tgt Ion:105 Resp: 221830
Ion Ratio Lower Upper
105 100
120 25.8 18.3 34.1





#71
1,1,2,2-Tetrachloroethane
Concen: 18.397 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

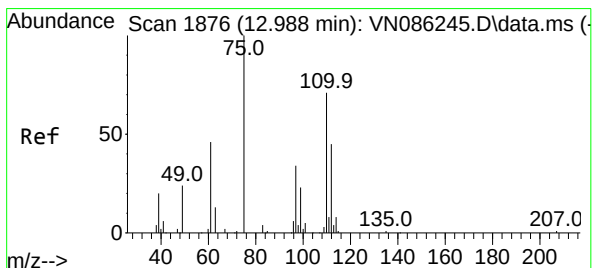
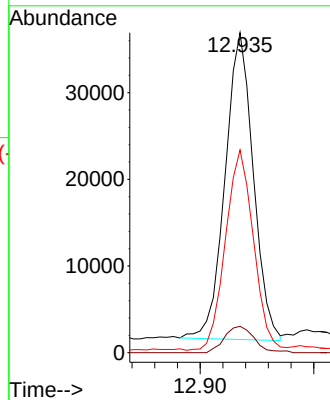
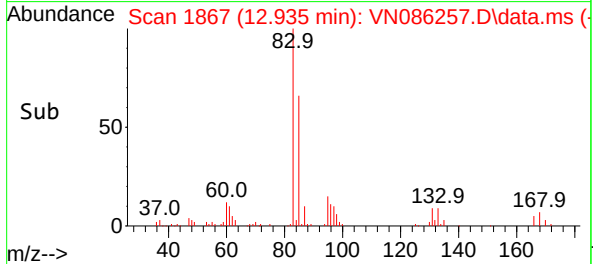
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 83 Resp: 60935
Ion Ratio Lower Upper
83 100
131 9.0 4.8 14.3
85 64.9 32.3 96.8

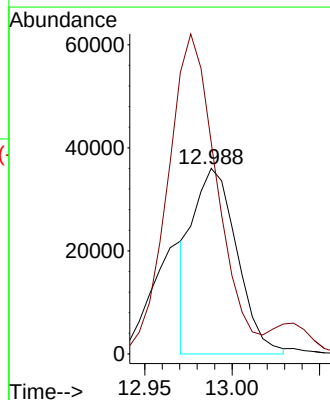
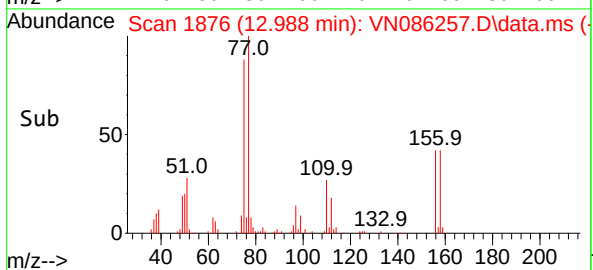
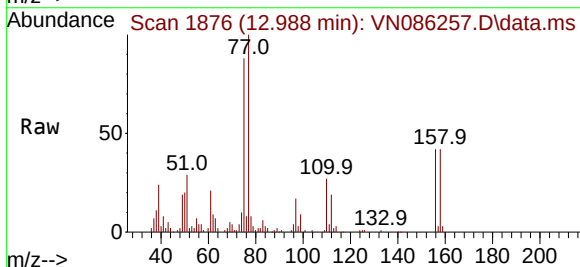
Manual Integrations
APPROVED

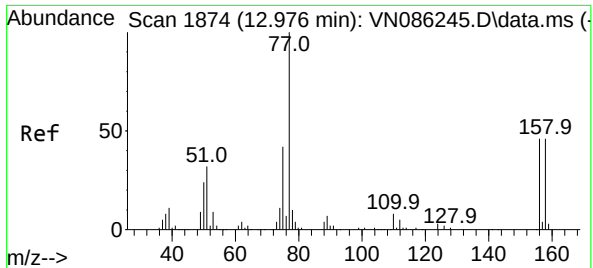
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#72
1,2,3-Trichloropropane
Concen: 18.304 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

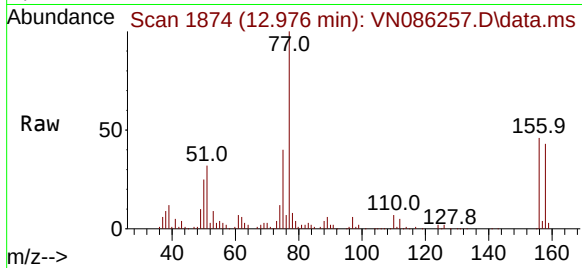
Tgt Ion: 75 Resp: 63106
Ion Ratio Lower Upper
75 100
77 193.6 0.0 380.0





#73
Bromobenzene
Concen: 19.012 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

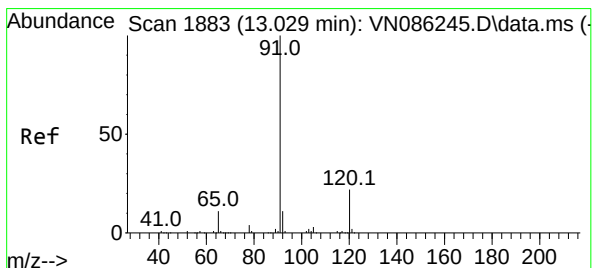
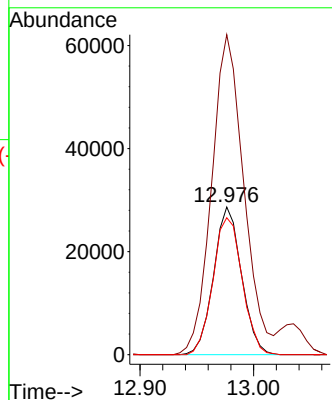
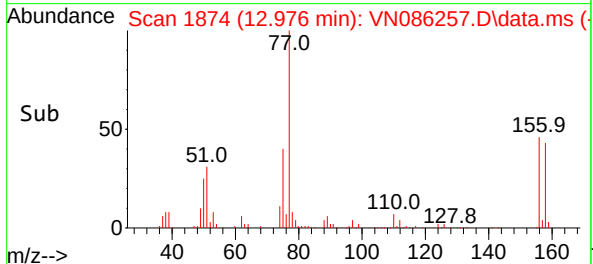
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:156 Resp: 49010
Ion Ratio Lower Upper
156 100
77 249.3 0.0 505.2
158 97.0 0.0 195.0

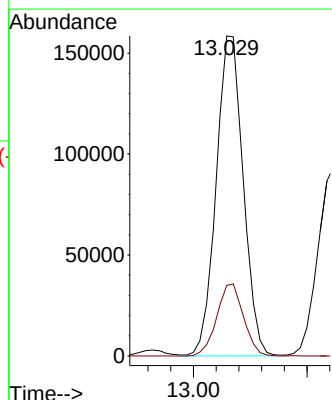
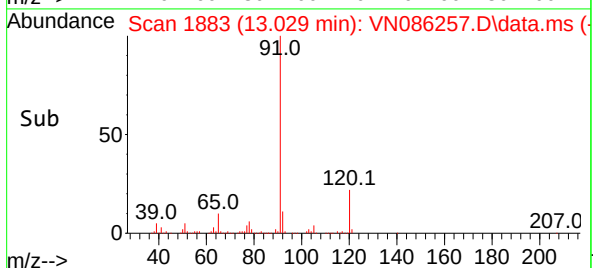
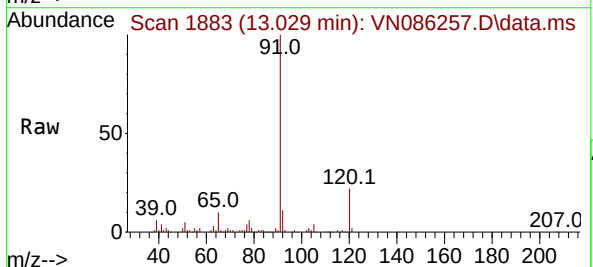
Manual Integrations
APPROVED

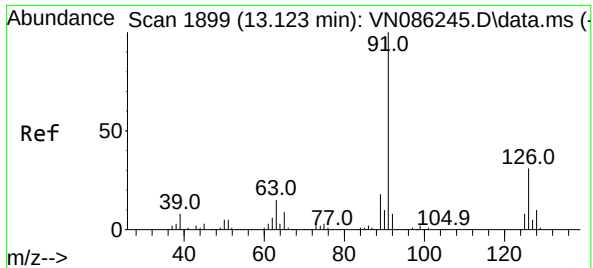
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#74
n-propylbenzene
Concen: 19.060 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Tgt Ion: 91 Resp: 261891
Ion Ratio Lower Upper
91 100
120 22.2 0.0 44.0





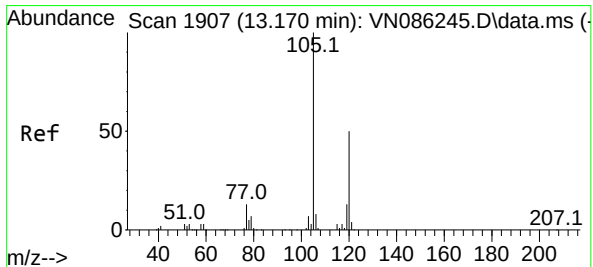
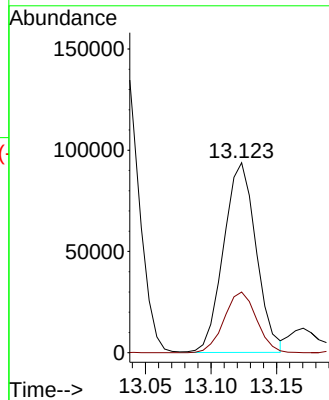
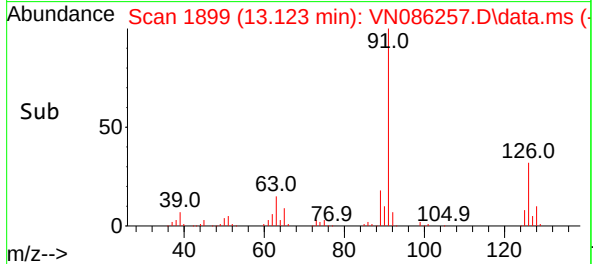
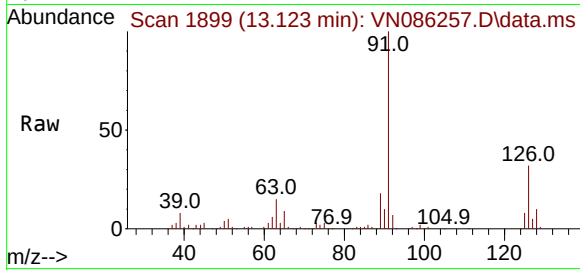
#75
2-Chlorotoluene
Concen: 18.767 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion: 91 Resp: 16208
Ion Ratio Lower Upper
91 100
126 31.7 0.0 63.4

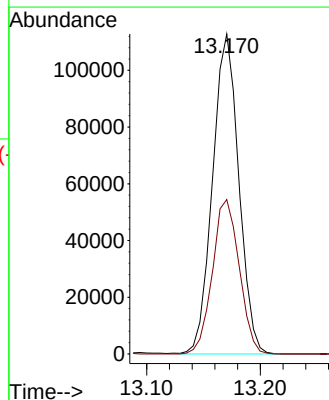
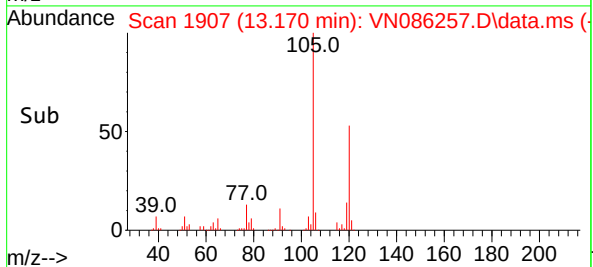
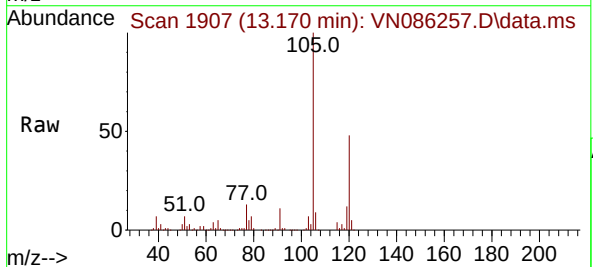
Manual Integrations
APPROVED

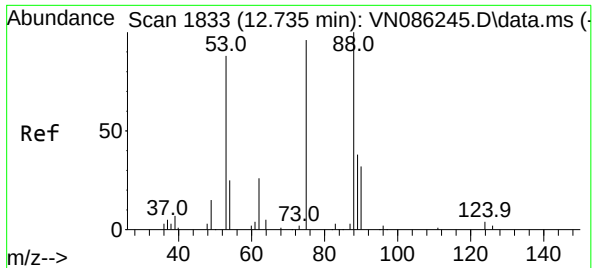
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#76
1,3,5-Trimethylbenzene
Concen: 18.910 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

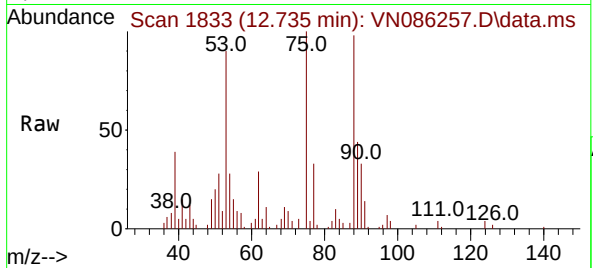
Tgt Ion:105 Resp: 180756
Ion Ratio Lower Upper
105 100
120 49.2 0.0 98.0





#77
t-1,4-Dichloro-2-butene
Concen: 18.430 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

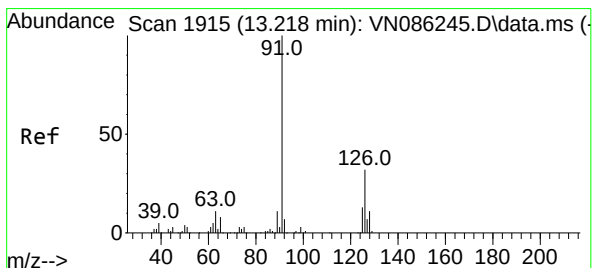
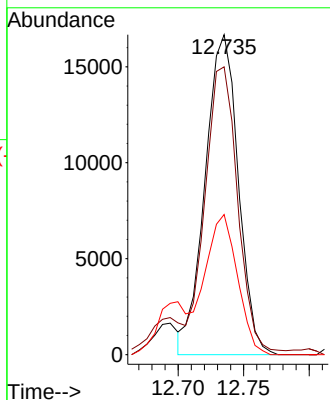
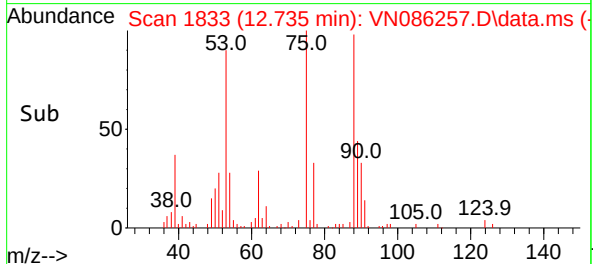
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion: 75 Resp: 29299
Ion Ratio Lower Upper
75 100
53 88.5 46.4 139.2
89 43.8 22.5 67.5

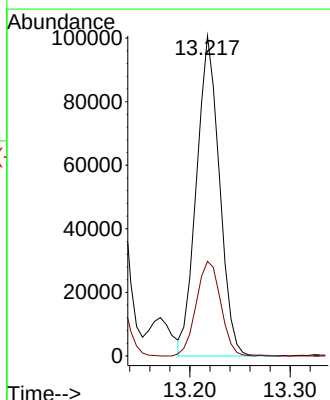
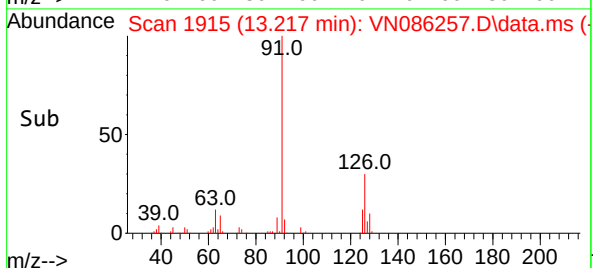
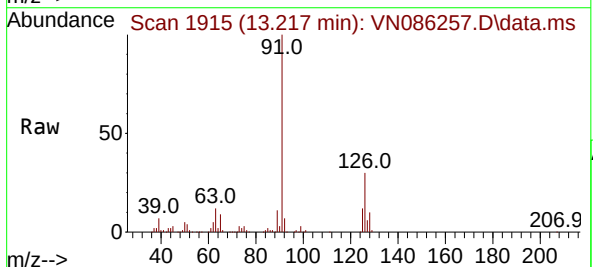
Manual Integrations
APPROVED

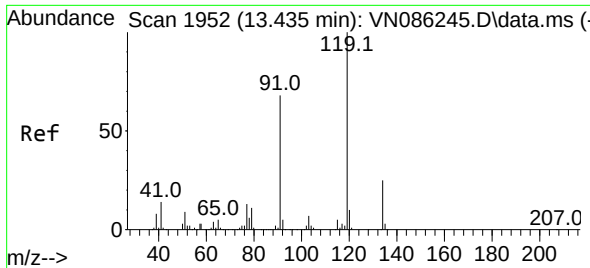
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#78
4-Chlorotoluene
Concen: 18.592 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

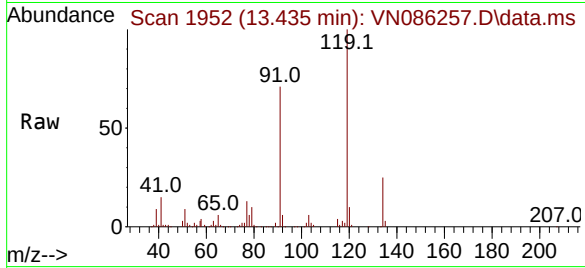
Tgt Ion: 91 Resp: 160361
Ion Ratio Lower Upper
91 100
126 31.5 0.0 63.2





#79
tert-butylbenzene
Concen: 18.681 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

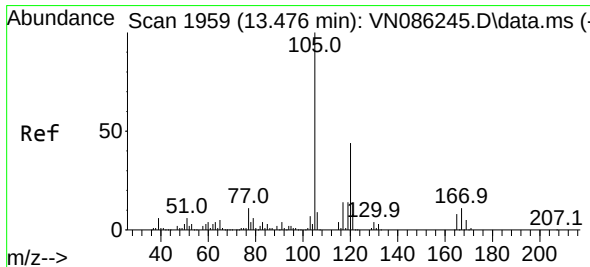
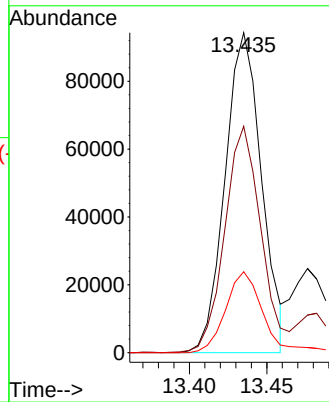
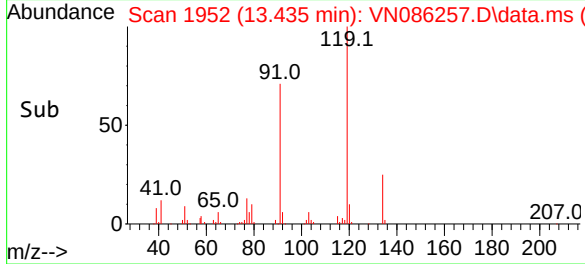
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



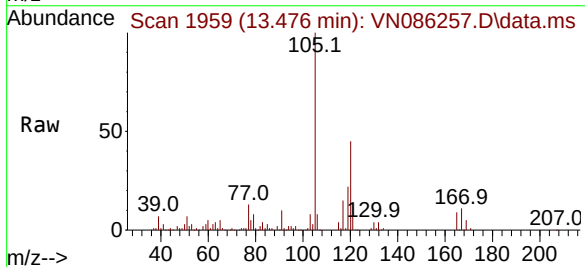
Tgt Ion:119 Resp: 15451
Ion Ratio Lower Upper
119 100
91 70.6 0.0 136.6
134 26.0 0.0 49.4

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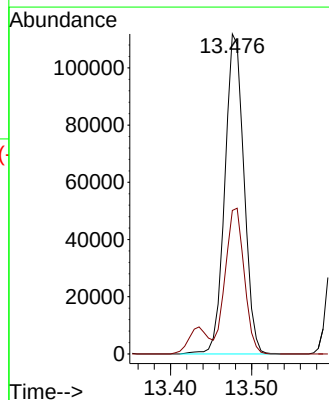
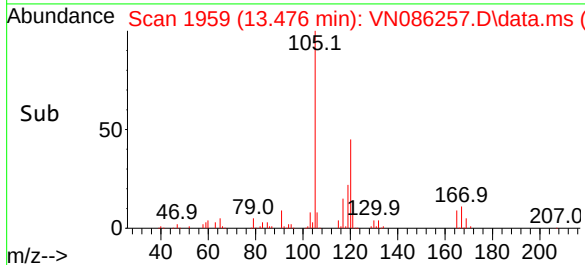
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

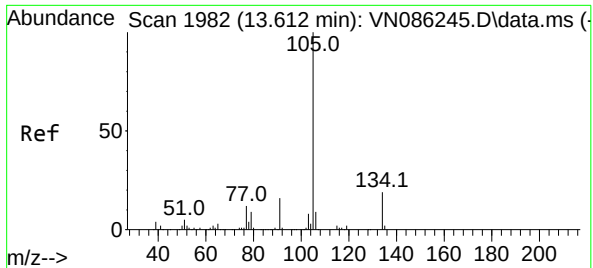


#80
1,2,4-Trimethylbenzene
Concen: 18.902 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48



Tgt Ion:105 Resp: 183217
Ion Ratio Lower Upper
105 100
120 45.0 0.0 91.0





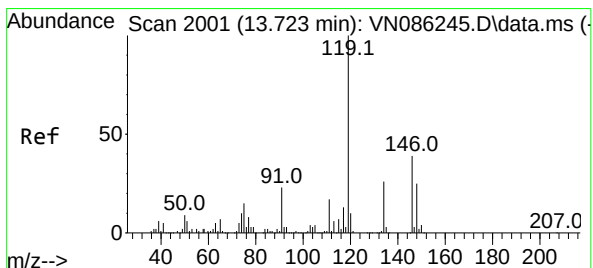
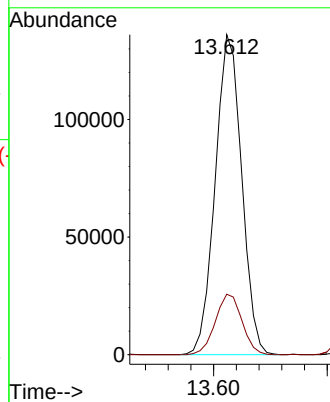
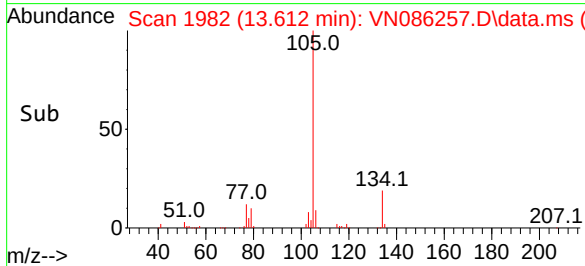
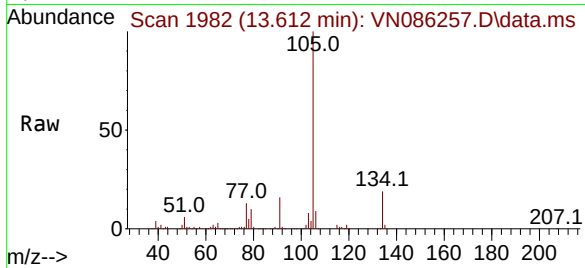
#81
sec-Butylbenzene
Concen: 19.085 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tgt Ion:105 Resp: 220190
Ion Ratio Lower Upper
105 100
134 19.0 0.0 38.6

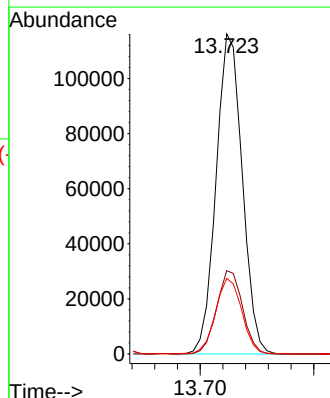
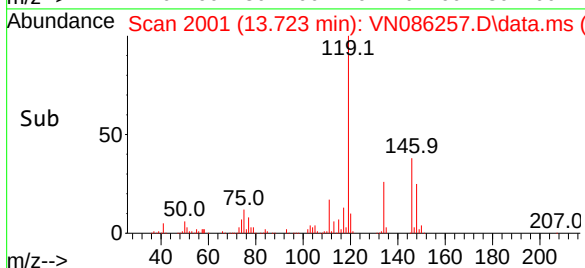
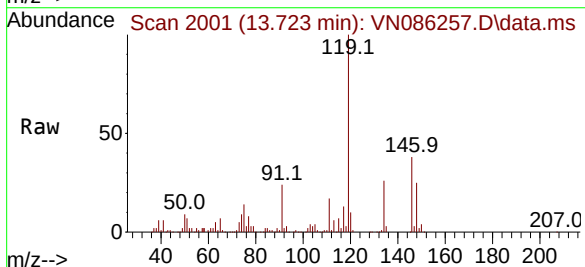
Manual Integrations
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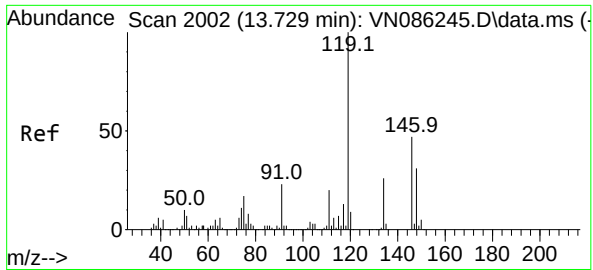
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#82
p-Isopropyltoluene
Concen: 19.321 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

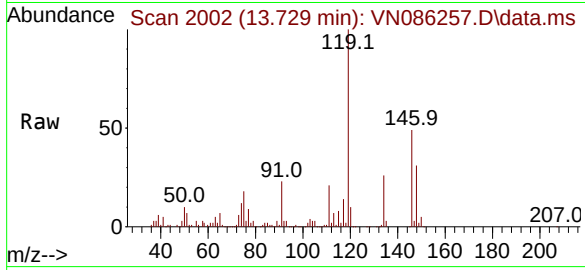
Tgt Ion:119 Resp: 185966
Ion Ratio Lower Upper
119 100
134 25.8 0.0 51.6
91 23.6 0.0 48.2





#83
1,3-Dichlorobenzene
Concen: 18.827 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

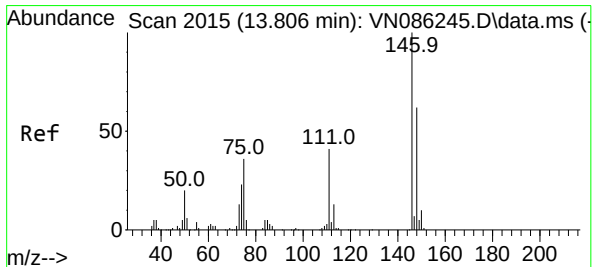
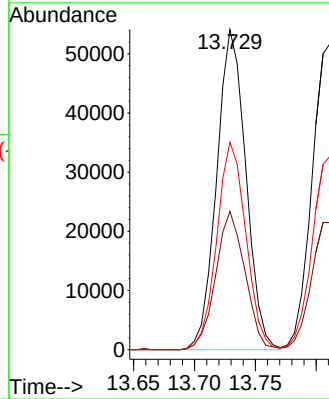
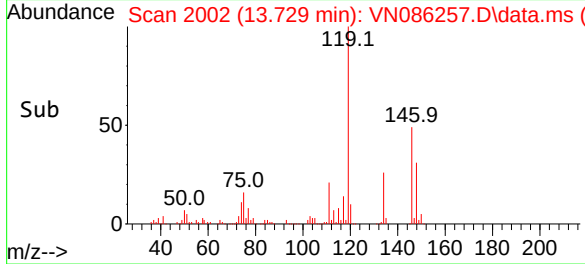
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:146 Resp: 90204
Ion Ratio Lower Upper
146 100
111 43.4 21.7 65.1
148 64.6 32.3 96.8

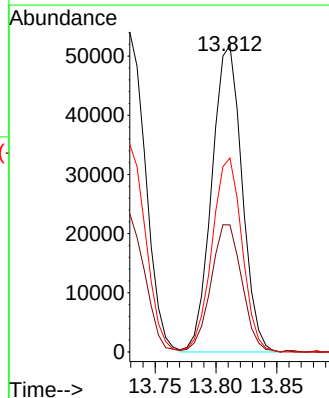
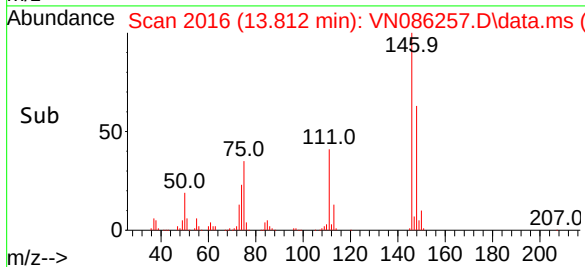
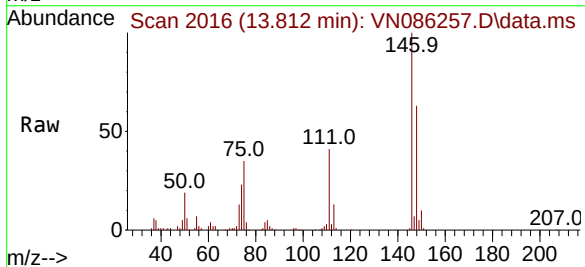
Manual Integrations
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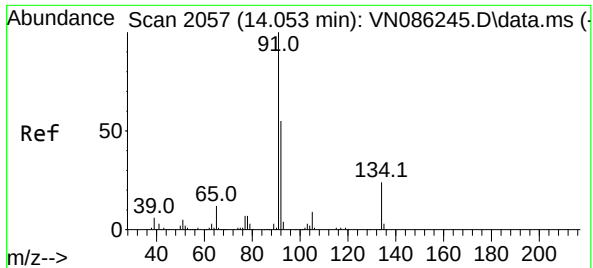
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#84
1,4-Dichlorobenzene
Concen: 18.615 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.006 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Tgt Ion:146 Resp: 89476
Ion Ratio Lower Upper
146 100
111 42.5 20.8 62.4
148 63.0 31.9 95.5





#85

n-Butylbenzene

Concen: 18.955 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tgt Ion: 91 Resp: 164579

Ion Ratio Lower Upper

91 100

92 54.2 0.0 109.4

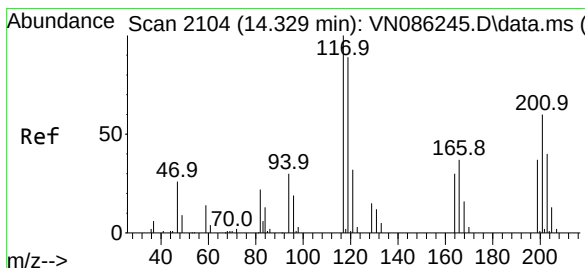
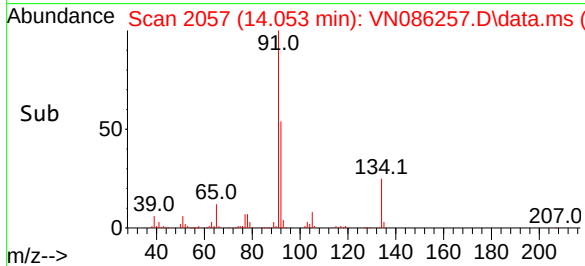
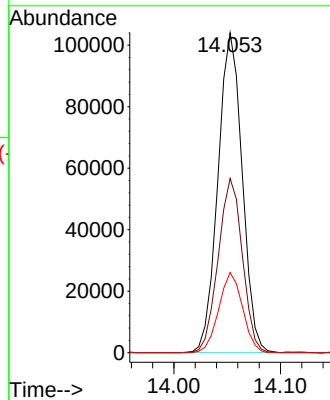
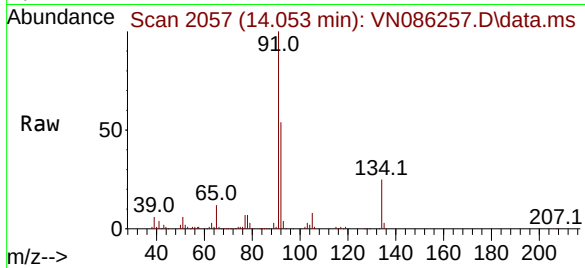
134 24.5 0.0 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#86

Hexachloroethane

Concen: 19.019 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.000 min

Lab File: VN086257.D

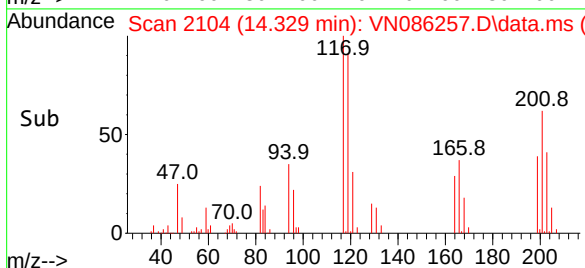
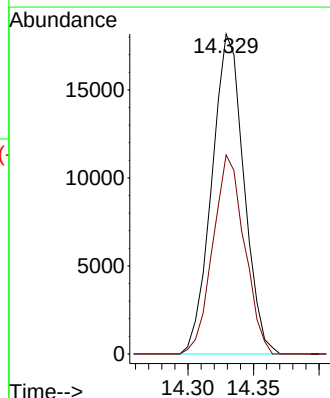
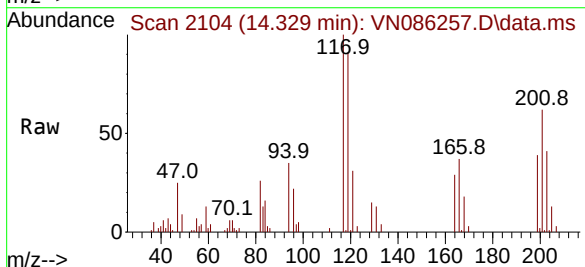
Acq: 14 Apr 2025 09:48

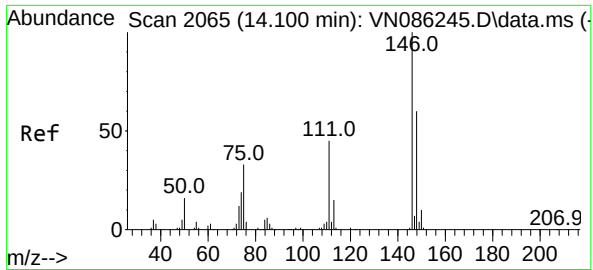
Tgt Ion:117 Resp: 30879

Ion Ratio Lower Upper

117 100

201 61.3 30.9 92.8





#87

1,2-Dichlorobenzene

Concen: 18.686 ug/l

RT: 14.106 min Scan# 2065

Delta R.T. 0.006 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

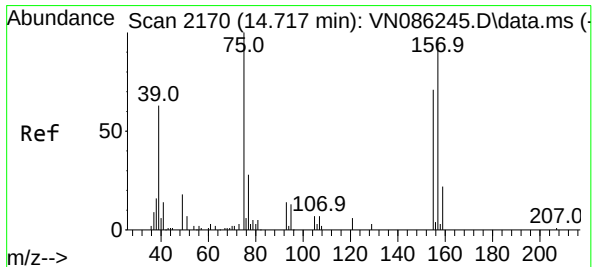
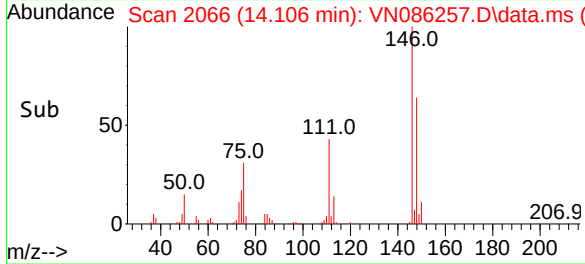
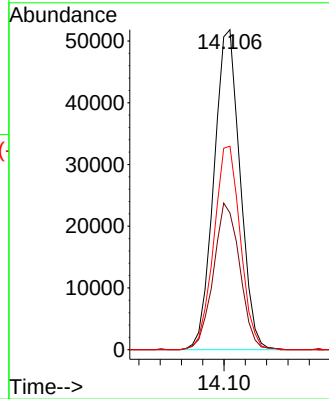
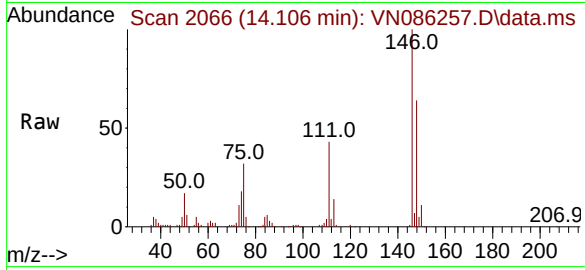
Tgt Ion:	146	Resp:	88400
Ion Ratio	Lower	Upper	
146	100		
111	46.3	22.7	68.0
148	64.5	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 16.576 ug/l

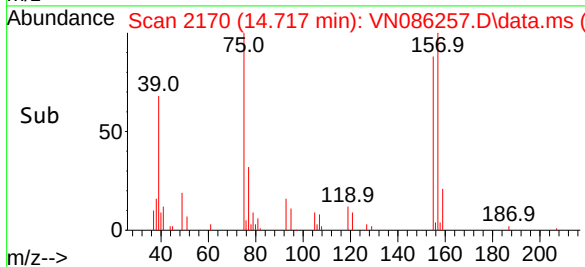
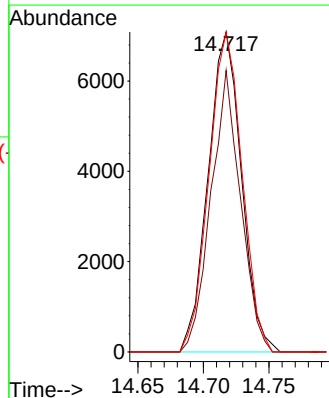
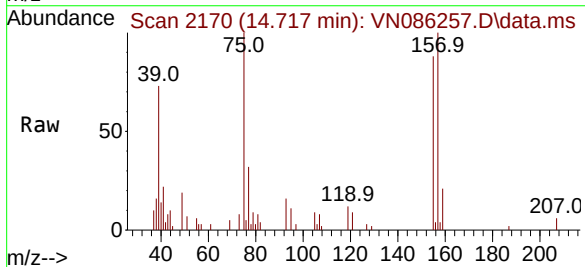
RT: 14.717 min Scan# 2170

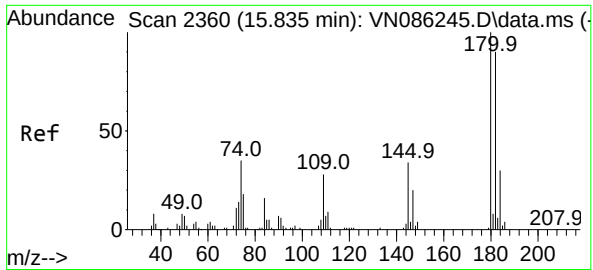
Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Tgt Ion:	75	Resp:	12505
Ion Ratio	Lower	Upper	
75	100		
155	78.4	60.3	90.5
157	99.4	79.0	118.4





#89

1,2,4-Trichlorobenzene

Concen: 18.029 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

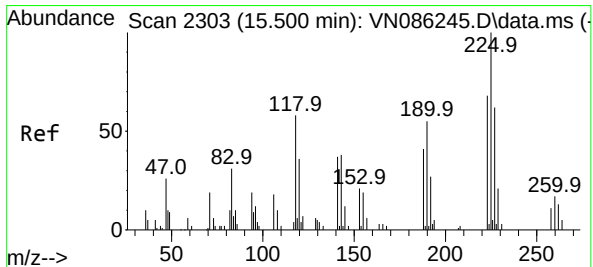
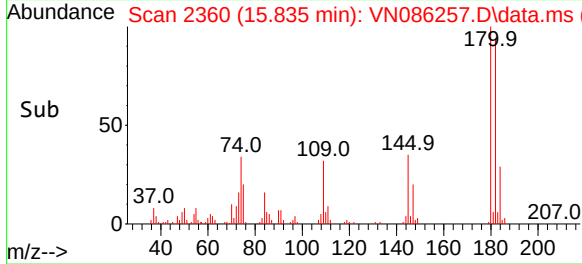
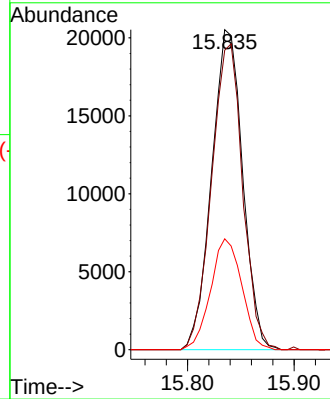
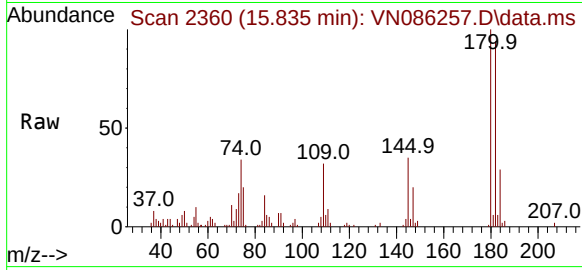
Tgt Ion:	180	Resp:	4149
Ion Ratio	Lower	Upper	
180	100		
182	95.6	75.1	112.7
145	34.9	27.1	40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#90

Hexachlorobutadiene

Concen: 17.220 ug/l

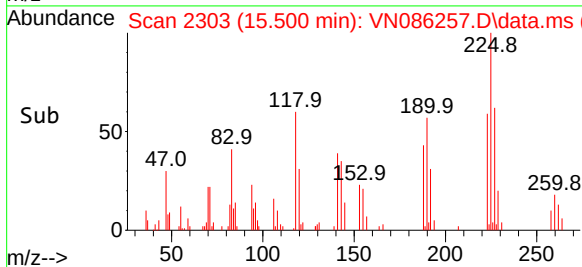
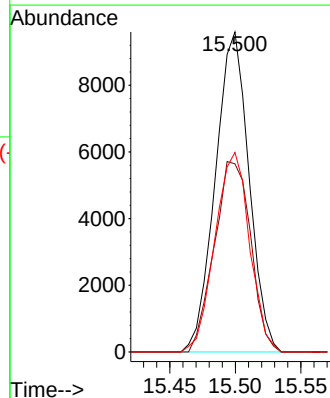
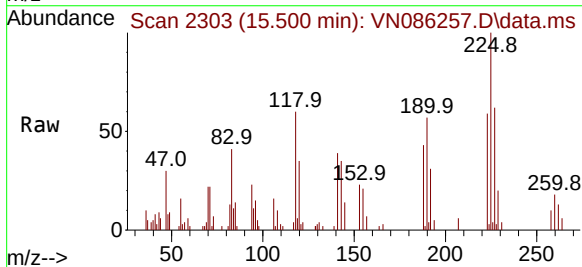
RT: 15.500 min Scan# 2303

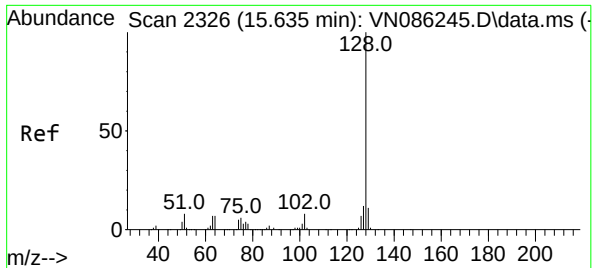
Delta R.T. -0.000 min

Lab File: VN086257.D

Acq: 14 Apr 2025 09:48

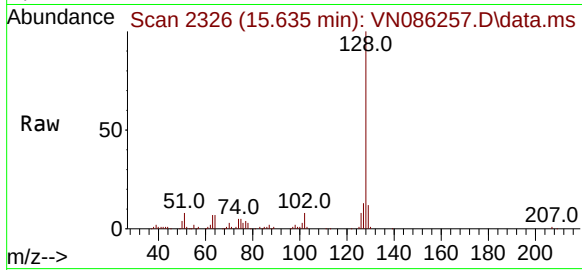
Tgt Ion:	225	Resp:	17114
Ion Ratio	Lower	Upper	
225	100		
223	64.3	0.0	130.0
227	64.2	0.0	123.2





#91
Naphthalene
Concen: 16.532 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

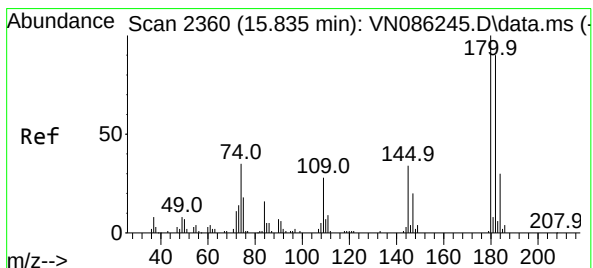
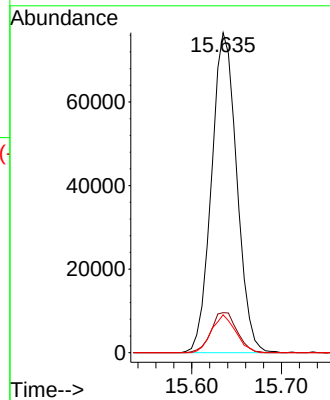
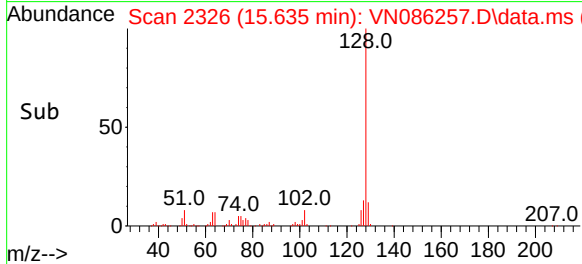
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020



Tgt Ion:128 Resp: 150034
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.2
129 11.3 8.8 13.2

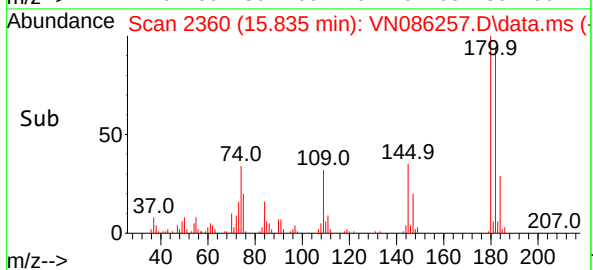
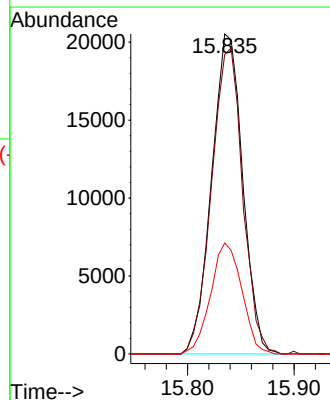
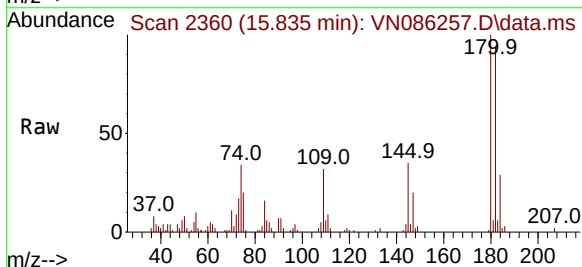
Manual Integrations
APPROVED

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



#92
1,2,3-Trichlorobenzene
Concen: 18.029 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086257.D
Acq: 14 Apr 2025 09:48

Tgt Ion:180 Resp: 41499
Ion Ratio Lower Upper
180 100
182 95.6 0.0 187.8
145 34.9 0.0 67.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086257.D
 Acq On : 14 Apr 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Apr 15 03:03:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	103	0.00
2 M	Dichlorodifluoromethane	2.404	2.422	-0.7	108	0.00
3 M	Chloromethane	3.322	3.179	4.3	106	0.00
4 M	Vinyl Chloride	3.164	3.024	4.4	104	0.00
5 M	Bromomethane	1.578	1.442	8.6	101	0.00
6 M	Chloroethane	1.998	1.927	3.6	107	0.00
7 M	Trichlorofluoromethane	3.433	3.284	4.3	106	0.00
8 T	Diethyl Ether	1.583	1.507	4.8	106	0.00
9	1,1,2-Trichlorotrifluoroeth	2.117	2.038	3.7	105	0.00
10 M	1,1-Dichloroethene	2.284	2.133	6.6	103	0.00
11	Methyl Iodide	2.626	2.441	7.0	102	0.00
12	Methyl Acetate	3.226	2.974	7.8	104	0.00
13 M	Acrolein	0.367	0.410	-11.7	157#	0.00
14 M	Acrylonitrile	1.362	1.230	9.7	99	0.00
15 M	Acetone	0.345	0.292	15.4	92	0.00
16 M	Carbon Disulfide	6.550	6.196	5.4	102	0.00
17	Allyl chloride	3.981	3.696	7.2	103	0.00
18 M	Methylene Chloride	2.605	2.443	6.2	106	0.00
19 M	trans-1,2-Dichloroethene	2.406	2.219	7.8	103	0.00
20 T	Diisopropyl ether	8.560	8.116	5.2	104	0.00
21 M	1,1-Dichloroethane	4.567	4.430	3.0	105	0.00
22 M	cis-1,2-Dichloroethene	2.866	2.745	4.2	106	0.00
23 M	tert-Butyl Alcohol	0.564	0.493	12.6	93	0.00
24 M	Methyl tert-Butyl Ether	8.244	7.823	5.1	105	0.00
25 M	Chloroform	4.355	4.145	4.8	105	0.00
26	Cyclohexane	4.273	4.028	5.7	106	0.00
27 s	1,2-Dichloroethane-d4	2.926	2.921	0.2	104	0.00
28 I	1,4-Difluorobenzene	1.000	1.000	0.0	107	0.00
29	1,1-Dichloropropene	0.537	0.507	5.6	105	0.00
30 M	2-Butanone	0.298	0.261	12.4	96	0.00
31	2,2-Dichloropropane	0.662	0.643	2.9	107	0.00
32 M	1,1,1-Trichloroethane	0.618	0.576	6.8	105	0.00
33 M	Carbon Tetrachloride	0.494	0.466	5.7	105	0.00
34 M	Benzene	1.710	1.605	6.1	105	0.00
35	Methacrylonitrile	0.336	0.299	11.0	100	0.00
36 M	1,2-Dichloroethane	0.535	0.512	4.3	107	0.00
37 M	Trichloroethene	0.413	0.396	4.1	107	0.00
38	Methylcyclohexane	0.659	0.619	6.1	107	0.00
39 M	1,2-Dichloropropane	0.425	0.402	5.4	106	0.00
40	Dibromomethane	0.275	0.253	8.0	104	0.00
41 M	Bromodichloromethane	0.590	0.545	7.6	103	0.00
42 M	Vinyl Acetate	1.014	0.943	7.0	101	0.00
43	Ethyl Acetate	0.601	0.536	10.8	97	0.00
44	Isopropyl Acetate	1.114	0.965	13.4	98	0.00
45 T	1,4-Dioxane	0.009	0.008	11.1	101	0.00
46	Methyl methacrylate	0.491	0.448	8.8	101	0.00
47	n-amyl Acetate	0.883	0.760	13.9	98	0.00
48 M	t-1,3-Dichloropropene	0.667	0.620	7.0	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086257.D
 Acq On : 14 Apr 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Apr 15 03:03:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	0.706	0.665	5.8	105	0.00
50 M	1,1,2-Trichloroethane	0.385	0.356	7.5	102	0.00
51	Ethyl methacrylate	0.716	0.641	10.5	100	0.00
52	1,3-Dichloropropane	0.687	0.643	6.4	106	0.00
53 M	Dibromochloromethane	0.422	0.394	6.6	104	0.00
54 M	1,2-Dibromoethane	0.389	0.360	7.5	104	0.00
55 M	2-Chloroethyl vinyl ether	0.271	0.300	-10.7	99	0.00
56 M	Bromoform	0.276	0.253	8.3	102	0.00
57 I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
58 M	4-Methyl-2-Pentanone	0.681	0.620	9.0	98	0.00
59 M	2-Hexanone	0.507	0.458	9.7	98	0.00
60 S	4-Bromofluorobenzene	0.597	0.586	1.8	104	0.00
61 M	Tetrachloroethene	0.443	0.429	3.2	107	0.00
62 M	Toluene	2.012	1.915	4.8	104	0.00
63 S	Toluene-d8	1.694	1.689	0.3	104	0.00
64 M	Chlorobenzene	1.229	1.169	4.9	105	0.00
65	1,1,1,2-Tetrachloroethane	0.406	0.388	4.4	105	0.00
66 M	Ethyl Benzene	2.232	2.098	6.0	104	0.00
67 M	m/p-Xylenes	0.830	0.780	6.0	105	0.00
68 M	o-Xylene	0.816	0.787	3.6	107	0.00
69 M	Styrene	1.376	1.288	6.4	105	0.00
70	Isopropylbenzene	2.012	1.918	4.7	106	0.00
71 M	1,1,2,2-Tetrachloroethane	0.573	0.527	8.0	100	0.00
72	1,2,3-Trichloropropane	0.596	0.546	8.4	102	0.00
73	Bromobenzene	0.446	0.424	4.9	105	0.00
74	n-propylbenzene	2.376	2.265	4.7	108	0.00
75	2-Chlorotoluene	1.494	1.402	6.2	105	0.00
76	1,3,5-Trimethylbenzene	1.653	1.563	5.4	105	0.00
77	t-1,4-Dichloro-2-butene	0.275	0.253	8.0	103	0.00
78	4-Chlorotoluene	1.492	1.387	7.0	106	0.00
79	tert-butylbenzene	1.430	1.336	6.6	105	0.00
80	1,2,4-Trimethylbenzene	1.676	1.584	5.5	105	0.00
81	sec-Butylbenzene	1.995	1.904	4.6	106	0.00
82	p-Isopropyltoluene	1.664	1.608	3.4	107	0.00
83 M	1,3-Dichlorobenzene	0.829	0.780	5.9	107	0.00
84 M	1,4-Dichlorobenzene	0.831	0.774	6.9	105	0.00
85	n-Butylbenzene	1.502	1.423	5.3	106	0.00
86 T	Hexachloroethane	0.281	0.267	5.0	106	0.00
87 M	1,2-Dichlorobenzene	0.818	0.764	6.6	104	0.00
88	1,2-Dibromo-3-Chloropropane	0.130	0.108	16.9	89	0.00
89	1,2,4-Trichlorobenzene	0.398	0.359	9.8	95	0.00
90	Hexachlorobutadiene	0.172	0.148	14.0	94	0.00
91 M	Naphthalene	1.569	1.297	17.3	89	0.00
92	1,2,3-Trichlorobenzene	0.398	0.359	9.8	95	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086257.D
 Acq On : 14 Apr 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Apr 15 03:03:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	30.000	30.000	0.0	103	0.00
2 M	Dichlorodifluoromethane	20.000	20.151	-0.8	108	0.00
3 M	Chloromethane	20.000	19.136	4.3	106	0.00
4 M	Vinyl Chloride	20.000	19.110	4.5	104	0.00
5 M	Bromomethane	20.000	18.267	8.7	101	0.00
6 M	Chloroethane	20.000	19.288	3.6	107	0.00
7 M	Trichlorofluoromethane	20.000	19.135	4.3	106	0.00
8 T	Diethyl Ether	20.000	19.039	4.8	106	0.00
9	1,1,2-Trichlorotrifluoroeth	20.000	19.258	3.7	105	0.00
10 M	1,1-Dichloroethene	20.000	18.675	6.6	103	0.00
11	Methyl Iodide	20.000	18.598	7.0	102	0.00
12	Methyl Acetate	20.000	18.438	7.8	104	0.00
13 M	Acrolein	100.000	111.843	-11.8	157	0.00
14 M	Acrylonitrile	100.000	90.298	9.7	99	0.00
15 M	Acetone	100.000	84.669	15.3	92	0.00
16 M	Carbon Disulfide	20.000	18.916	5.4	102	0.00
17	Allyl chloride	20.000	18.564	7.2	103	0.00
18 M	Methylene Chloride	20.000	18.758	6.2	106	0.00
19 M	trans-1,2-Dichloroethene	20.000	18.441	7.8	103	0.00
20 T	Diisopropyl ether	20.000	18.962	5.2	104	0.00
21 M	1,1-Dichloroethane	20.000	19.400	3.0	105	0.00
22 M	cis-1,2-Dichloroethene	20.000	19.151	4.2	106	0.00
23 M	tert-Butyl Alcohol	100.000	87.324	12.7	93	0.00
24 M	Methyl tert-Butyl Ether	20.000	18.980	5.1	105	0.00
25 M	Chloroform	20.000	19.034	4.8	105	0.00
26	Cyclohexane	20.000	18.858	5.7	106	0.00
27 s	1,2-Dichloroethane-d4	30.000	29.943	0.2	104	0.00
28 I	1,4-Difluorobenzene	30.000	30.000	0.0	107	0.00
29	1,1-Dichloropropene	20.000	18.870	5.6	105	0.00
30 M	2-Butanone	100.000	87.649	12.4	96	0.00
31	2,2-Dichloropropane	20.000	19.429	2.9	107	0.00
32 M	1,1,1-Trichloroethane	20.000	18.645	6.8	105	0.00
33 M	Carbon Tetrachloride	20.000	18.867	5.7	105	0.00
34 M	Benzene	20.000	18.775	6.1	105	0.00
35	Methacrylonitrile	20.000	17.817	10.9	100	0.00
36 M	1,2-Dichloroethane	20.000	19.155	4.2	107	0.00
37 M	Trichloroethene	20.000	19.222	3.9	107	0.00
38	Methylcyclohexane	20.000	18.783	6.1	107	0.00
39 M	1,2-Dichloropropane	20.000	18.907	5.5	106	0.00
40	Dibromomethane	20.000	18.422	7.9	104	0.00
41 M	Bromodichloromethane	20.000	18.478	7.6	103	0.00
42 M	Vinyl Acetate	100.000	93.065	6.9	101	0.00
43	Ethyl Acetate	20.000	17.853	10.7	97	0.00
44	Isopropyl Acetate	20.000	17.314	13.4	98	0.00
45 T	1,4-Dioxane	400.000	364.534	8.9	101	0.00
46	Methyl methacrylate	20.000	18.242	8.8	101	0.00
47	n-amyl Acetate	20.000	17.197	14.0	98	0.00
48 M	t-1,3-Dichloropropene	20.000	18.586	7.1	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086257.D
 Acq On : 14 Apr 2025 09:48
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC020

Quant Time: Apr 15 03:03:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	cis-1,3-Dichloropropene	20.000	18.832	5.8	105	0.00
50 M	1,1,2-Trichloroethane	20.000	18.457	7.7	102	0.00
51	Ethyl methacrylate	20.000	17.910	10.4	100	0.00
52	1,3-Dichloropropane	20.000	18.712	6.4	106	0.00
53 M	Dibromochloromethane	20.000	18.691	6.5	104	0.00
54 M	1,2-Dibromoethane	20.000	18.482	7.6	104	0.00
55 M	2-Chloroethyl vinyl ether	100.000	110.673	-10.7	99	0.00
56 M	Bromoform	20.000	18.314	8.4	102	0.00
57 I	Chlorobenzene-d5	30.000	30.000	0.0	106	0.00
58 M	4-Methyl-2-Pentanone	100.000	91.099	8.9	98	0.00
59 M	2-Hexanone	100.000	90.316	9.7	98	0.00
60 S	4-Bromofluorobenzene	30.000	29.439	1.9	104	0.00
61 M	Tetrachloroethene	20.000	19.384	3.1	107	0.00
62 M	Toluene	20.000	19.032	4.8	104	0.00
63 S	Toluene-d8	30.000	29.915	0.3	104	0.00
64 M	Chlorobenzene	20.000	19.013	4.9	105	0.00
65	1,1,1,2-Tetrachloroethane	20.000	19.109	4.5	105	0.00
66 M	Ethyl Benzene	20.000	18.804	6.0	104	0.00
67 M	m/p-Xylenes	40.000	37.610	6.0	105	0.00
68 M	o-Xylene	20.000	19.296	3.5	107	0.00
69 M	Styrene	20.000	18.708	6.5	105	0.00
70	Isopropylbenzene	20.000	19.063	4.7	106	0.00
71 M	1,1,2,2-Tetrachloroethane	20.000	18.397	8.0	100	0.00
72	1,2,3-Trichloropropane	20.000	18.304	8.5	102	0.00
73	Bromobenzene	20.000	19.012	4.9	105	0.00
74	n-propylbenzene	20.000	19.060	4.7	108	0.00
75	2-Chlorotoluene	20.000	18.767	6.2	105	0.00
76	1,3,5-Trimethylbenzene	20.000	18.910	5.4	105	0.00
77	t-1,4-Dichloro-2-butene	20.000	18.430	7.9	103	0.00
78	4-Chlorotoluene	20.000	18.592	7.0	106	0.00
79	tert-butylbenzene	20.000	18.681	6.6	105	0.00
80	1,2,4-Trimethylbenzene	20.000	18.902	5.5	105	0.00
81	sec-Butylbenzene	20.000	19.085	4.6	106	0.00
82	p-Isopropyltoluene	20.000	19.321	3.4	107	0.00
83 M	1,3-Dichlorobenzene	20.000	18.827	5.9	107	0.00
84 M	1,4-Dichlorobenzene	20.000	18.615	6.9	105	0.00
85	n-Butylbenzene	20.000	18.955	5.2	106	0.00
86 T	Hexachloroethane	20.000	19.019	4.9	106	0.00
87 M	1,2-Dichlorobenzene	20.000	18.686	6.6	104	0.00
88	1,2-Dibromo-3-Chloropropane	20.000	16.576	17.1	89	0.00
89	1,2,4-Trichlorobenzene	20.000	18.029	9.9	95	0.00
90	Hexachlorobutadiene	20.000	17.220	13.9	94	0.00
91 M	Naphthalene	20.000	16.532	17.3	89	0.00
92	1,2,3-Trichlorobenzene	20.000	18.029	9.9	95	0.00

(#) = Out of Range

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



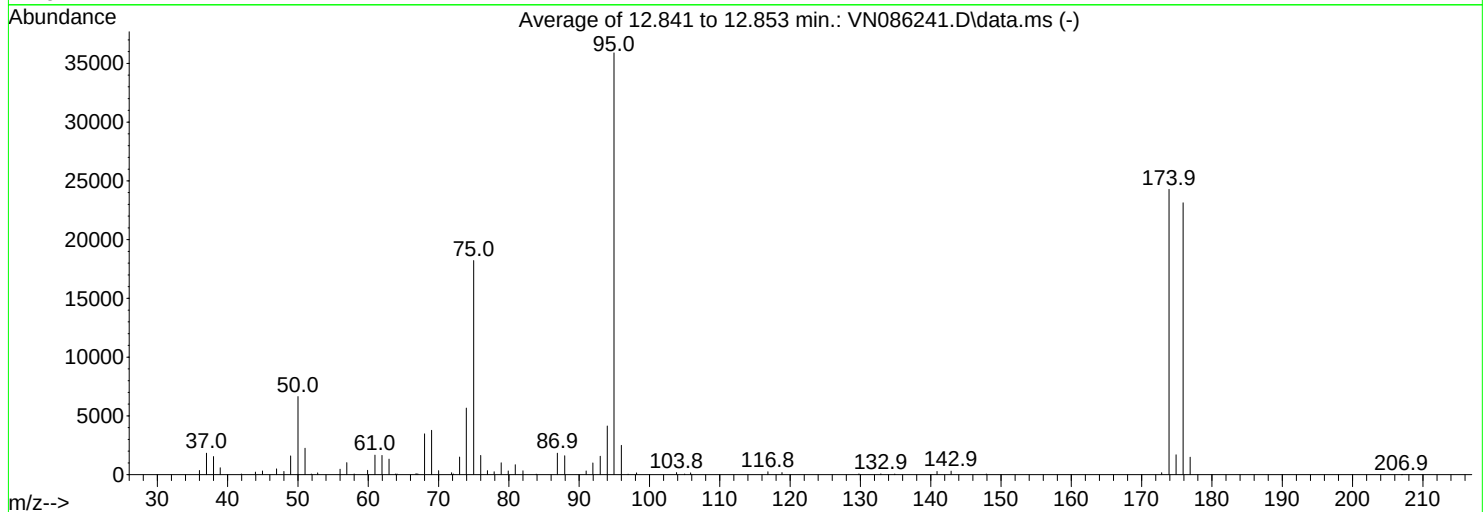
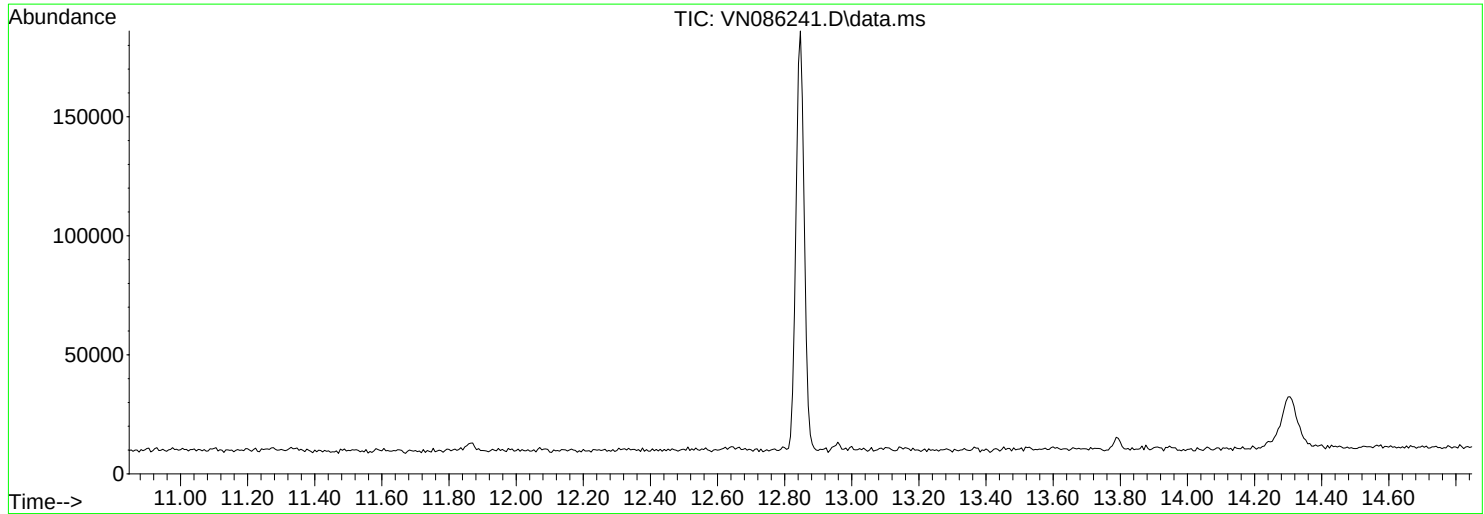
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
Data File : VN086241.D
Acq On : 11 Apr 2025 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\82N031825W.M
Title : SW846 8260
Last Update : Tue Apr 08 14:20:04 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1842

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	18.5	6647	PASS
75	95	30	60	50.8	18224	PASS
95	95	100	100	100.0	35896	PASS
96	95	5	9	6.9	2487	PASS
173	174	0.00	2	0.7	164	PASS
174	95	50	100	67.6	24277	PASS
175	174	5	9	7.0	1691	PASS
176	174	95	101	95.3	23128	PASS
177	176	5	9	6.4	1490	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	358	51.00	2252	64.10	58	76.00	1631
37.00	1820	51.90	51	66.80	90	76.95	341
38.00	1545	52.80	146	67.05	73	77.90	241
38.95	586	56.00	465	68.00	3478	78.90	1011
41.95	50	56.95	1020	69.00	3774	79.90	320
43.95	213	58.00	57	70.00	338	80.90	841
44.95	311	59.90	369	71.85	163	82.00	327
46.95	494	60.95	1668	72.10	61	83.90	41
48.00	270	61.95	1638	73.00	1497	86.90	1825
48.95	1601	62.95	1322	73.95	5669	87.95	1606
50.00	6647	63.90	55	75.00	18224	91.00	312

Average of 12.841 to 12.853 min.: VN086241.D\data.ms

BFB

Modified:subtracted

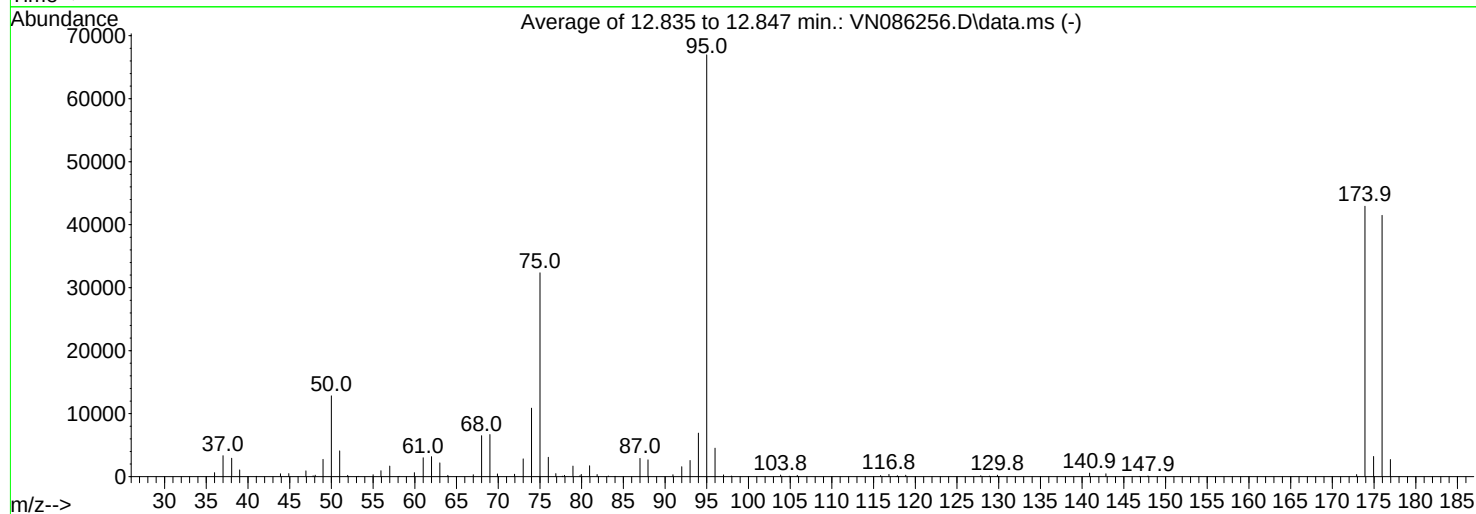
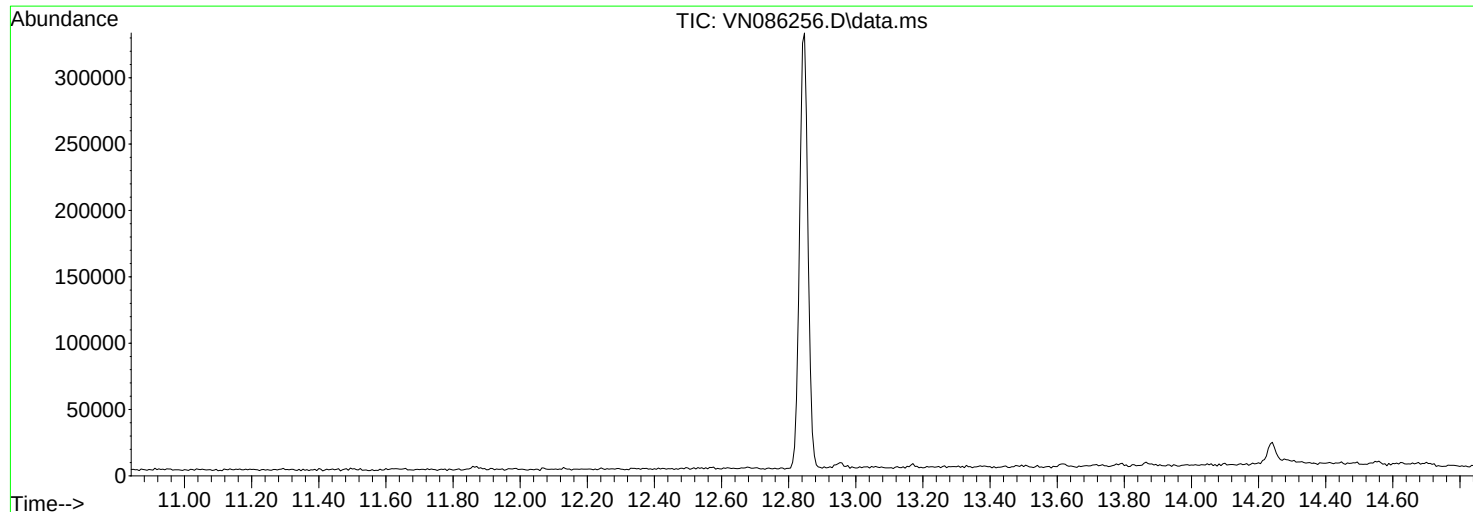
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.95	998	118.85	184	176.90	1490		
93.00	1567	129.80	62	206.95	1		
94.00	4145	132.90	71				
94.95	35896	134.90	51				
96.00	2487	140.90	269				
96.95	37	142.90	300				
98.15	155	147.90	55				
103.85	178	172.85	164				
105.00	51	173.90	24277				
105.85	149	174.90	1691				
116.85	250	175.90	23128				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
Data File : VN086256.D
Acq On : 14 Apr 2025 08:59
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Sat Apr 12 01:21:52 2025



AutoFind: Scans 1850, 1851, 1852; 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	19.2	12839	PASS
75	95	30	60	48.3	32352	PASS
95	95	100	100	100.0	66968	PASS
96	95	5	9	6.8	4521	PASS
173	174	0.00	2	0.8	342	PASS
174	95	50	100	64.1	42933	PASS
175	174	5	9	7.5	3209	PASS
176	174	95	101	96.7	41499	PASS
177	176	5	9	6.6	2730	PASS

Report of Analysis

Client:	Tully Environmental, Inc			Date Collected:	
Project:	Transfer Station-SPDES			Date Received:	
Client Sample ID:	VN0414WBL01			SDG No.:	Q1804
Lab Sample ID:	VN0414WBL01			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-BTEX
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086260.D	1		04/14/25 11:27	VN041425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.2		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	29.8		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	27.6		63 - 112	92%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	34100	7.812			
540-36-3	1,4-Difluorobenzene	209000	9.1			
3114-55-4	Chlorobenzene-d5	183000	11.865			

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\VN041425\
 Data File : VN086260.D
 Acq On : 14 Apr 2025 11:27
 Operator : JC\MD
 Sample : VN0414WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBL01

Quant Time: Apr 15 03:06:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	34059	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	208636	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	183354	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	100164	30.152	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.500%
60) 4-Bromofluorobenzene	12.847	95	100864	27.630	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.100%
63) Toluene-d8	10.565	98	308243	29.778	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.267%

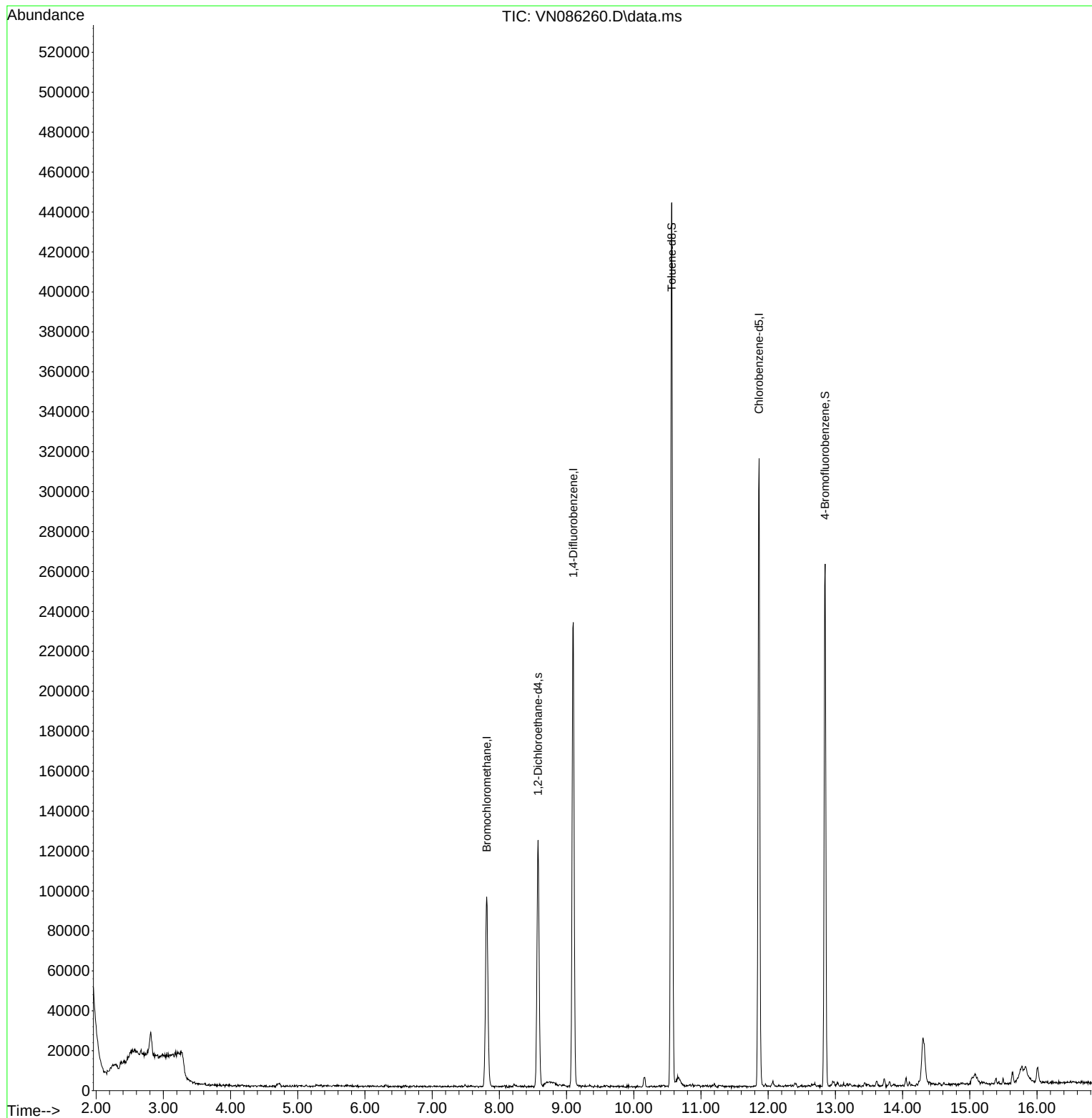
Target Compounds	Qvalue

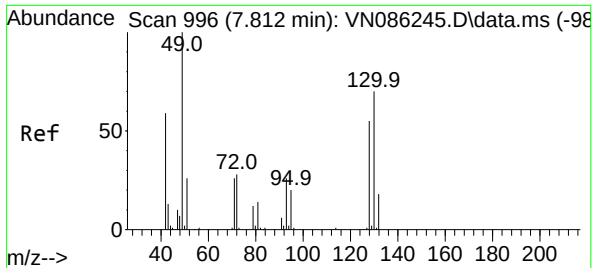
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
Data File : VN086260.D
Acq On : 14 Apr 2025 11:27
Operator : JC\MD
Sample : VN0414WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

Quant Time: Apr 15 03:06:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration

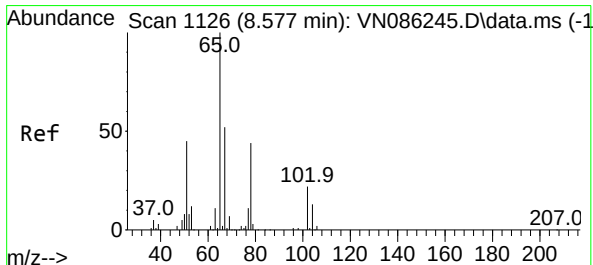
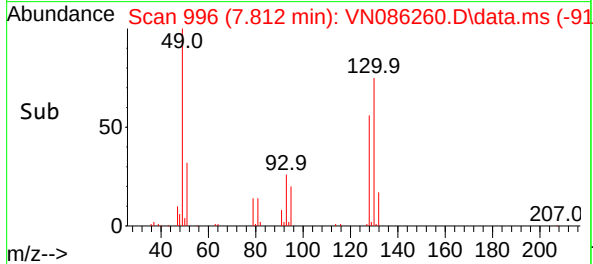
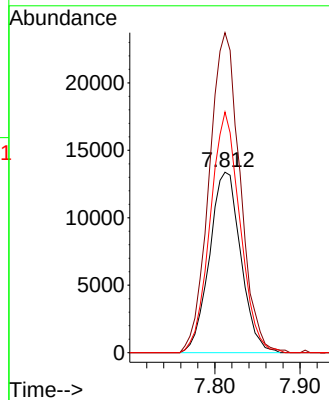
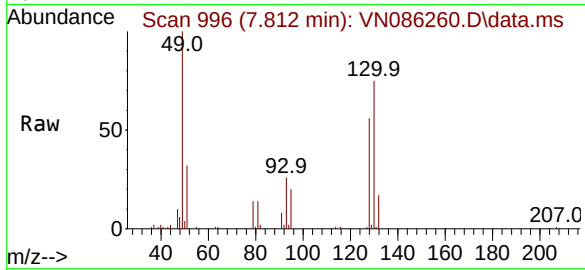




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086260.D
Acq: 14 Apr 2025 11:27

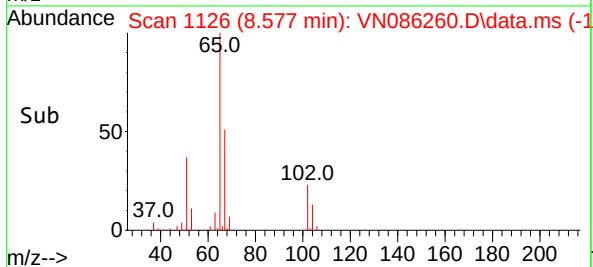
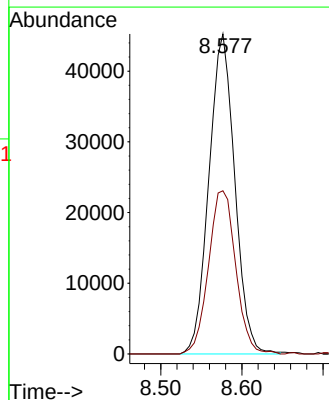
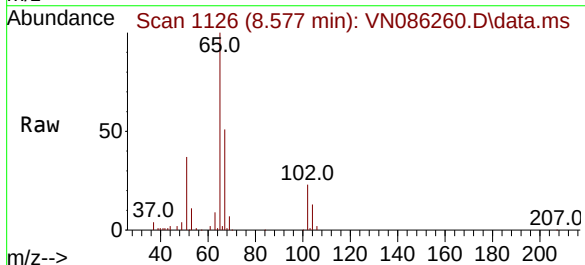
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

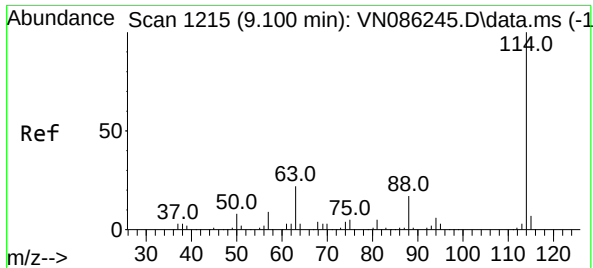
Tgt Ion	Ratio	Lower	Upper
128	100		
49	175.4	0.0	452.5
130	127.5	0.0	315.0



#27
1,2-Dichloroethane-d4
Concen: 30.152 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086260.D
Acq: 14 Apr 2025 11:27

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.7	43.4	65.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086260.D

Acq: 14 Apr 2025 11:27

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBL01

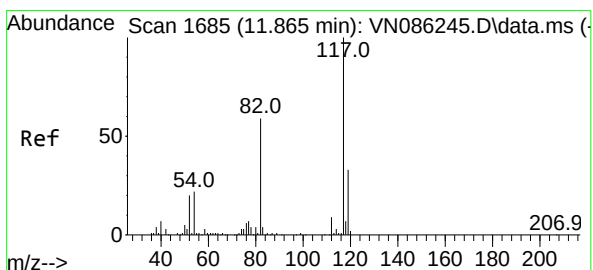
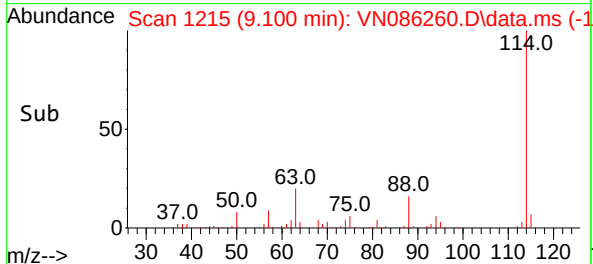
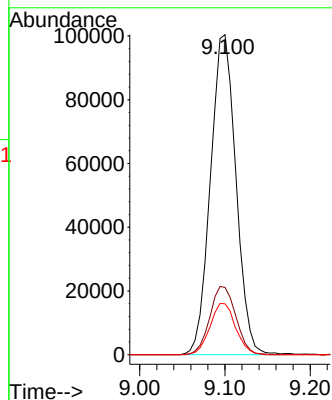
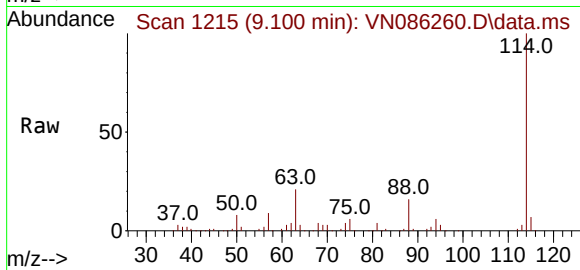
Tgt Ion:114 Resp: 208636

Ion Ratio Lower Upper

114 100

63 21.7 17.8 26.6

88 16.1 13.4 20.2



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN086260.D

Acq: 14 Apr 2025 11:27

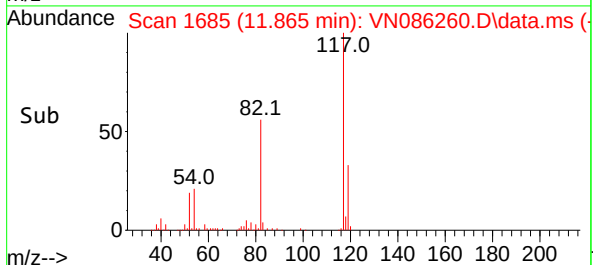
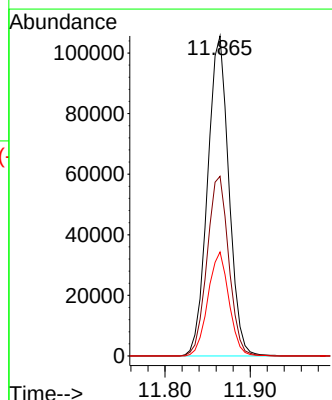
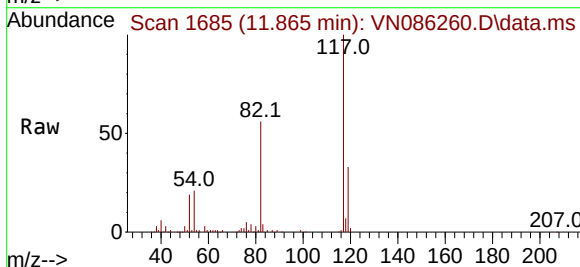
Tgt Ion:117 Resp: 183354

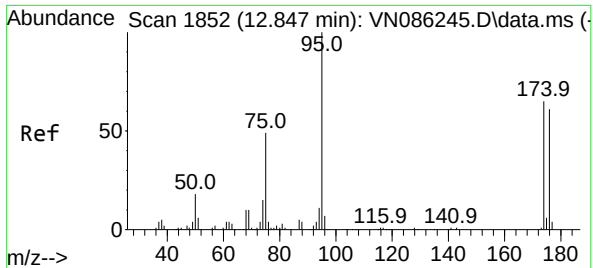
Ion Ratio Lower Upper

117 100

82 57.3 47.3 70.9

119 32.1 25.9 38.9

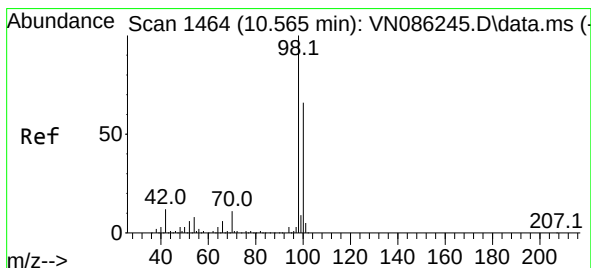
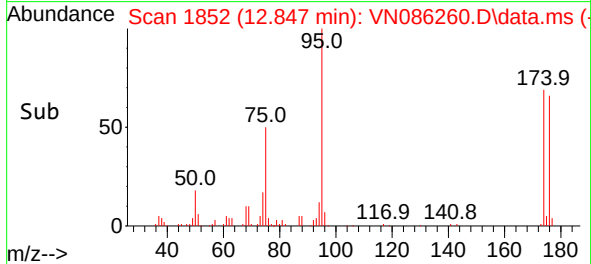
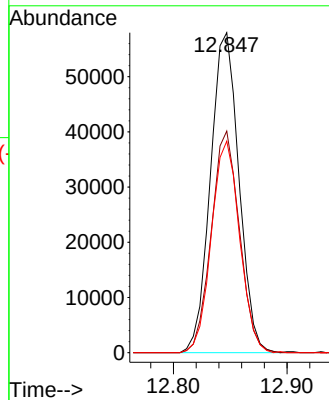
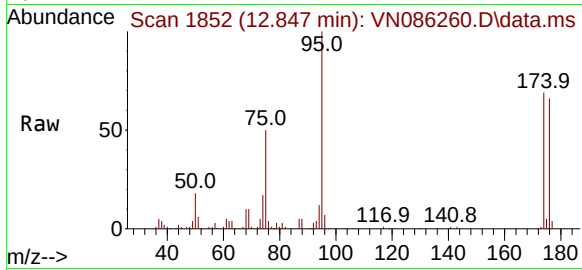




#60
4-Bromofluorobenzene
Concen: 27.630 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086260.D
Acq: 14 Apr 2025 11:27

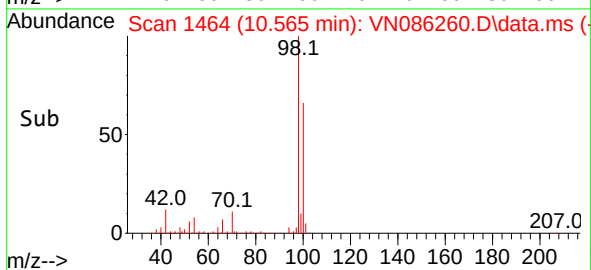
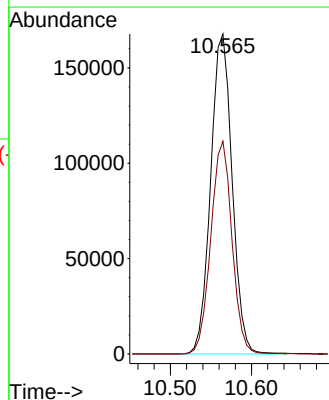
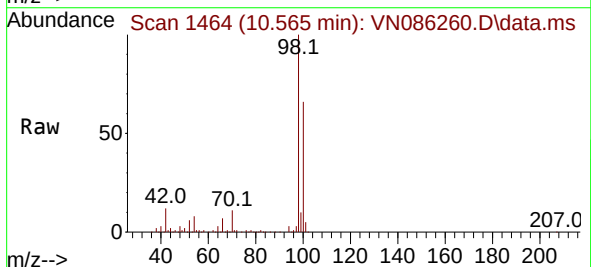
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBL01

Tgt Ion: 95 Resp: 100864
Ion Ratio Lower Upper
95 100
174 68.4 52.7 79.1
176 65.5 49.8 74.8



#63
Toluene-d8
Concen: 29.778 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086260.D
Acq: 14 Apr 2025 11:27

Tgt Ion: 98 Resp: 308243
Ion Ratio Lower Upper
98 100
100 65.6 52.3 78.5



Report of Analysis

Client:	Tully Environmental, Inc			Date Collected:	
Project:	Transfer Station-SPDES			Date Received:	
Client Sample ID:	VN0414WBS01			SDG No.:	Q1804
Lab Sample ID:	VN0414WBS01			Matrix:	Water
Analytical Method:	E624.1			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOC-BTEX
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086258.D	1		04/14/25 10:30	VN041425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	20.0		0.45	5.00	ug/L
108-88-3	Toluene	20.4		0.46	5.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	40.9		1.30	10.0	ug/L
95-47-6	o-Xylene	20.5		0.67	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.0		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	29.9		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.4		63 - 112	98%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	36900	7.812			
540-36-3	1,4-Difluorobenzene	225000	9.1			
3114-55-4	Chlorobenzene-d5	200000	11.865			

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\VN041425\
 Data File : VN086258.D
 Acq On : 14 Apr 2025 10:30
 Operator : JC\MD
 Sample : VN0414WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBS01

Manual Integrations
 APPROVED

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

Quant Time: Apr 15 03:04:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	36879	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	225158	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	200399	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	107914	30.001	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.000%			
60) 4-Bromofluorobenzene	12.847	95	117162	29.365	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.867%			
63) Toluene-d8	10.565	98	338635	29.932	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.767%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	61251	20.729	ug/l	99
3) Chloromethane	2.359	50	80659	19.750	ug/l	99
4) Vinyl Chloride	2.512	62	77149	19.833	ug/l	99
5) Bromomethane	2.965	94	37720	19.440	ug/l	100
6) Chloroethane	3.124	64	48664	19.811	ug/l	98
7) Trichlorofluoromethane	3.500	101	84176	19.948	ug/l	99
8) Diethyl Ether	3.959	74	37186	19.109	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	52729	20.264	ug/l	98
10) 1,1-Dichloroethene	4.336	96	53563	19.074	ug/l	90
11) Methyl Iodide	4.583	142	63260	19.600	ug/l	97
12) Methyl Acetate	5.024	43	80685	20.346	ug/l	96
13) Acrolein	4.177	56	51921	115.184	ug/l	98
14) Acrylonitrile	5.712	53	161554	96.501	ug/l	99
15) Acetone	4.424	58	39995	94.221	ug/l	86
16) Carbon Disulfide	4.712	76	155915	19.362	ug/l	99
17) Allyl chloride	5.018	41	95949	19.604	ug/l	100
18) Methylene Chloride	5.277	84	62289	19.455	ug/l	95
19) trans-1,2-Dichloroethene	5.783	96	56991	19.267	ug/l	98
20) Diisopropyl ether	6.671	45	205517	19.531	ug/l	96
21) 1,1-Dichloroethane	6.565	63	112578	20.053	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	70370	19.971	ug/l	99
23) tert-Butyl Alcohol	5.512	59	68299	98.460	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	201333	19.867	ug/l	99
25) Chloroform	7.965	83	108985	20.358	ug/l	100
26) Cyclohexane	8.259	56	104294	19.857	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	79196	19.635	ug/l	99
30) 2-Butanone	7.477	43	218235	97.644	ug/l	99
31) 2,2-Dichloropropane	7.488	77	102531	20.651	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	93805	20.218	ug/l	98
33) Carbon Tetrachloride	8.359	117	76431	20.613	ug/l	98
34) Benzene	8.606	78	256807	20.013	ug/l	97
35) Methacrylonitrile	7.777	41	48109	19.094	ug/l	95
36) 1,2-Dichloroethane	8.671	62	79447	19.785	ug/l	98
37) Trichloroethene	9.347	130	61173	19.758	ug/l	95
38) Methylcyclohexane	9.600	83	98435	19.899	ug/l	98
39) 1,2-Dichloropropane	9.618	63	64370	20.160	ug/l	96
40) Dibromomethane	9.706	93	39821	19.309	ug/l	97
41) Bromodichloromethane	9.882	83	87893	19.839	ug/l	99
42) Vinyl Acetate	6.600	43	754169	99.130	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086258.D
 Acq On : 14 Apr 2025 10:30
 Operator : JC\MD
 Sample : VN0414WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBS01

Manual Integrations
 APPROVED

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

Quant Time: Apr 15 03:04:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	84824	18.816	ug/l	99
44) Isopropyl Acetate	8.682	43	156967	18.769	ug/l	100
45) 1,4-Dioxane	9.694	88	27132	407.987	ug/l #	93
46) Methyl methacrylate	9.677	41	70397	19.104	ug/l	96
47) n-amyl Acetate	12.488	43	125064	18.861	ug/l	100
48) t-1,3-Dichloropropene	10.829	75	100398	20.045	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	106442	20.080	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	57405	19.847	ug/l	96
51) Ethyl methacrylate	10.871	69	107320	19.966	ug/l	97
52) 1,3-Dichloropropane	11.159	76	102866	19.953	ug/l	99
53) Dibromochloromethane	11.353	129	63672	20.125	ug/l	99
54) 1,2-Dibromoethane	11.465	107	57989	19.861	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	277515	136.634	ug/l	99
56) Bromoform	12.576	173	42602	20.582	ug/l	100
58) 4-Methyl-2-Pentanone	10.441	43	453475	99.716	ug/l	100
59) 2-Hexanone	11.194	43	331992	98.039	ug/l	99
61) Tetrachloroethene	11.100	164	60657	20.496	ug/l	96
62) Toluene	10.629	91	274337	20.410	ug/l	99
64) Chlorobenzene	11.888	112	166315	20.253	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	56093	20.697	ug/l	99
66) Ethyl Benzene	11.959	91	300996	20.192	ug/l	98
67) m/p-Xylenes	12.065	106	226476	40.859	ug/l	100
68) o-Xylene	12.394	106	111656	20.480	ug/l	99
69) Styrene	12.406	104	187151	20.354	ug/l	98
70) Isopropylbenzene	12.694	105	276457	20.566	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	77255	20.191	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	68150m	17.111	ug/l	
73) Bromobenzene	12.976	156	61503	20.653	ug/l	97
74) n-propylbenzene	13.035	91	327436	20.629	ug/l	100
75) 2-Chlorotoluene	13.123	91	203289	20.376	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	225441	20.416	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	35902	19.550	ug/l	93
78) 4-Chlorotoluene	13.217	91	200138	20.086	ug/l	99
79) tert-butylbenzene	13.435	119	200516	20.985	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	226948	20.268	ug/l	99
81) sec-Butylbenzene	13.612	105	275746	20.689	ug/l	100
82) p-Isopropyltoluene	13.729	119	228119	20.517	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	113608	20.526	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	111516	20.084	ug/l	99
85) n-Butylbenzene	14.053	91	204037	20.342	ug/l	99
86) Hexachloroethane	14.329	117	37827	20.168	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	110247	20.173	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	16866	19.353	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	52993	19.929	ug/l	99
90) Hexachlorobutadiene	15.500	225	20919	18.221	ug/l	97
91) Naphthalene	15.635	128	195107	18.610	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	52993	19.929	ug/l	99

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

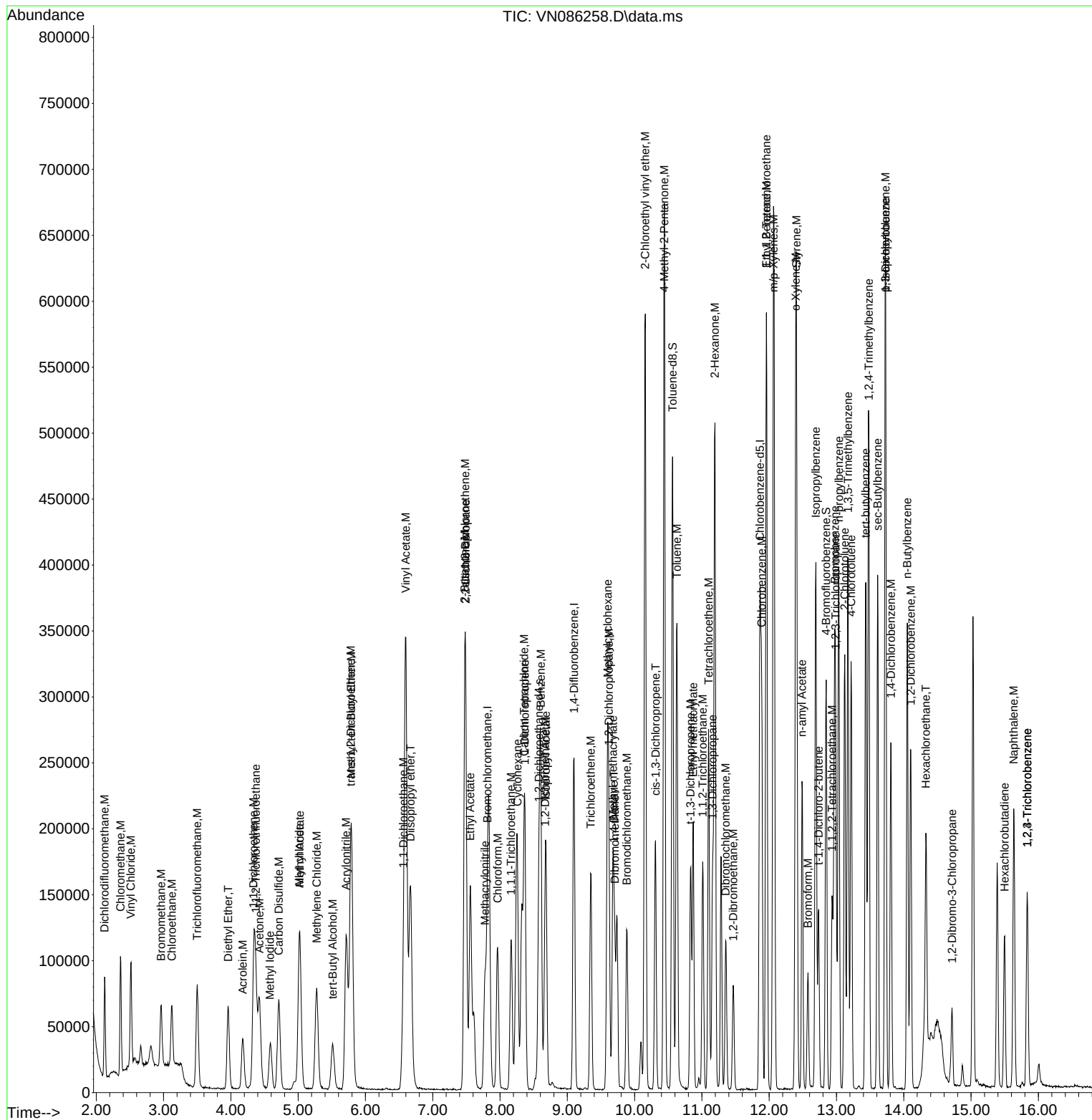
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 Data File : VN086258.D
 Acq On : 14 Apr 2025 10:30
 Operator : JC\MD
 Sample : VN0414WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

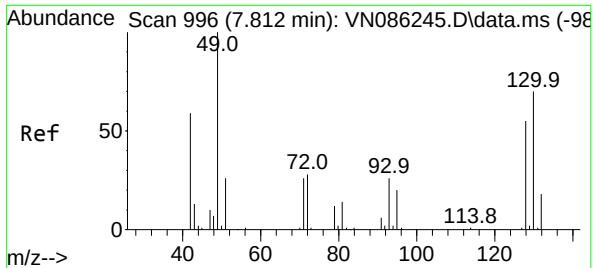
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBS01

Manual Integrations APPROVED

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

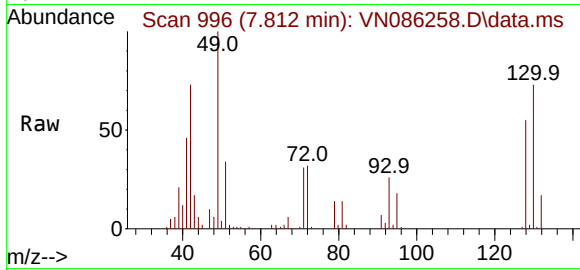
Quant Time: Apr 15 03:04:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

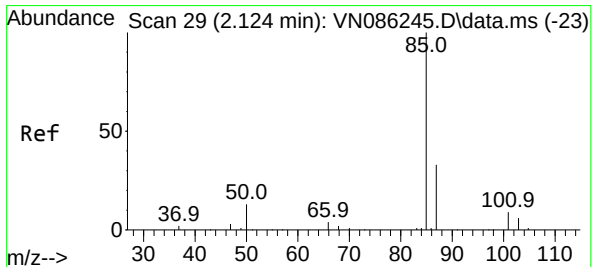
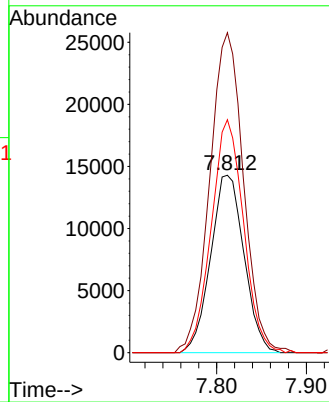
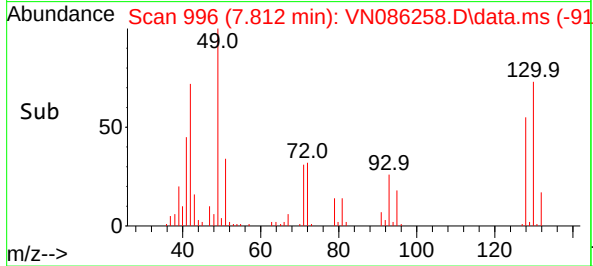
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion:128 Resp: 36879
Ion Ratio Lower Upper
128 100
49 182.1 0.0 452.5
130 127.0 0.0 315.0

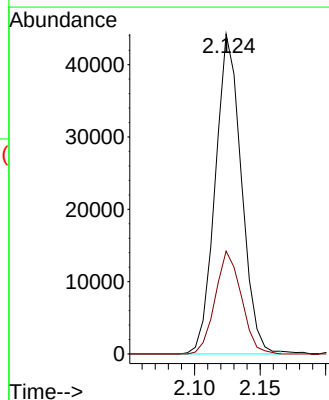
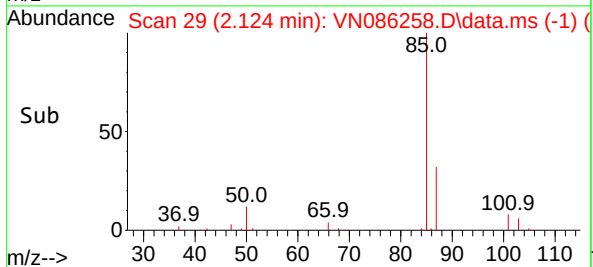
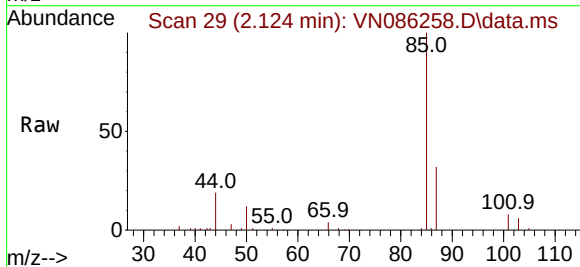
Manual Integrations
APPROVED

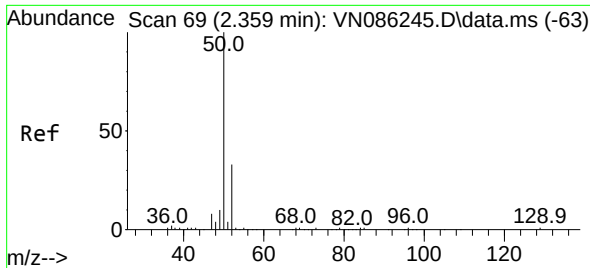
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#2
Dichlorodifluoromethane
Concen: 20.729 ug/l
RT: 2.124 min Scan# 29
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

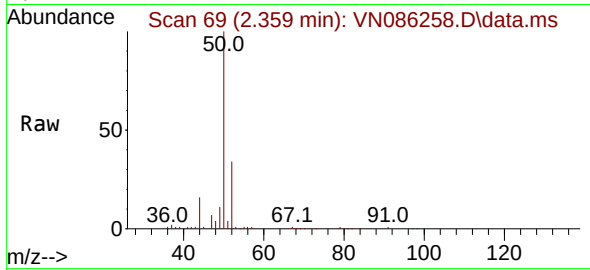
Tgt Ion: 85 Resp: 61251
Ion Ratio Lower Upper
85 100
87 32.2 16.3 48.9





#3
Chloromethane
Concen: 19.750 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

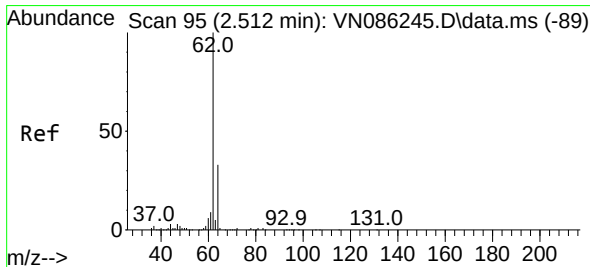
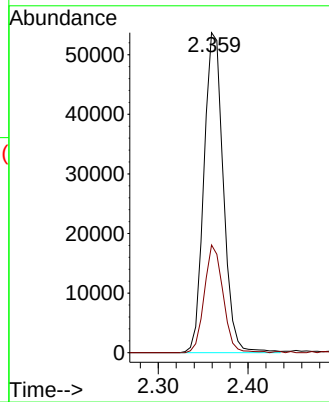
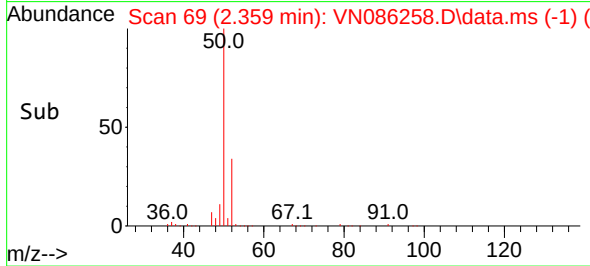
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 50 Resp: 80659
Ion Ratio Lower Upper
50 100
52 33.6 26.4 39.6

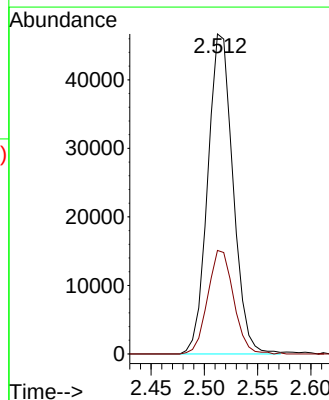
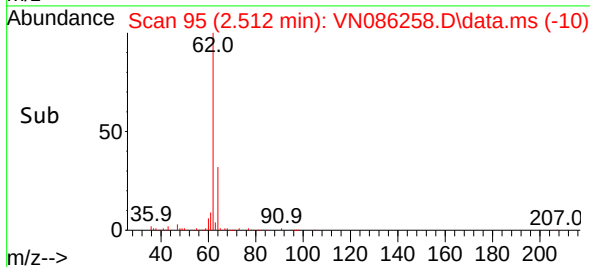
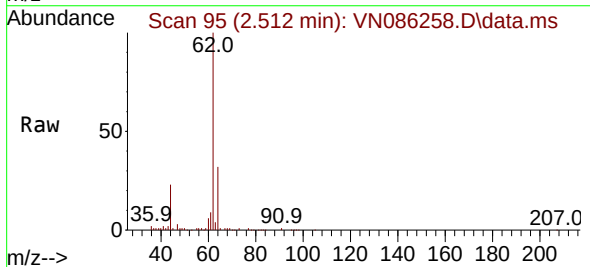
Manual Integrations
APPROVED

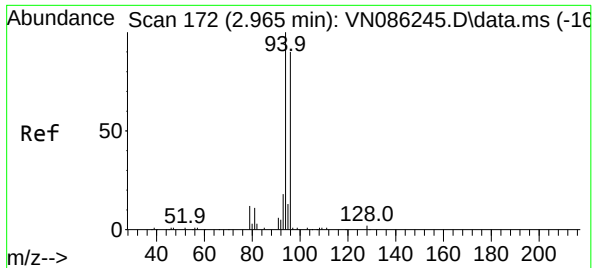
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#4
Vinyl Chloride
Concen: 19.833 ug/l
RT: 2.512 min Scan# 95
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

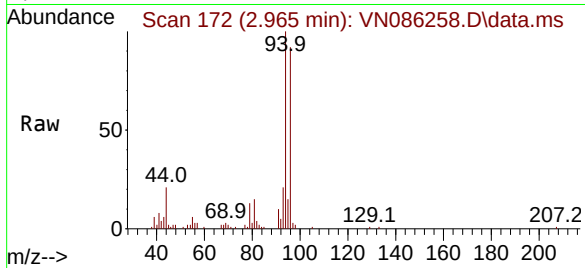
Tgt Ion: 62 Resp: 77149
Ion Ratio Lower Upper
62 100
64 32.4 26.3 39.5





#5
Bromomethane
Concen: 19.440 ug/l
RT: 2.965 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

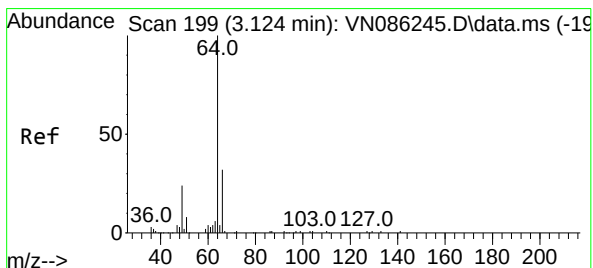
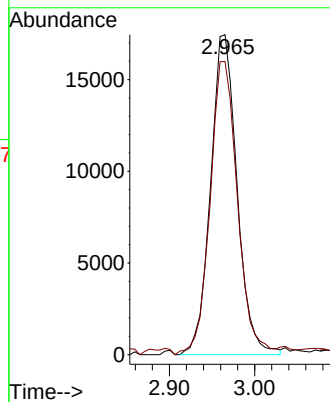
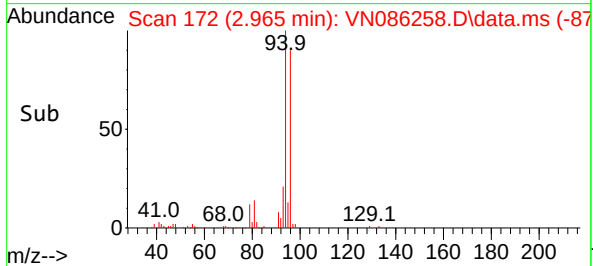
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 94 Resp: 37720
Ion Ratio Lower Upper
94 100
96 90.5 72.2 108.2

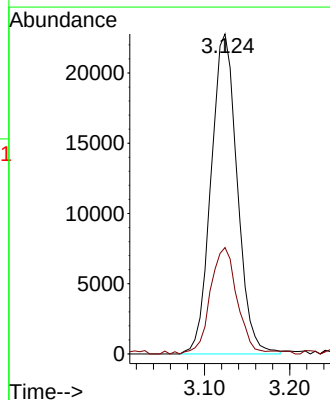
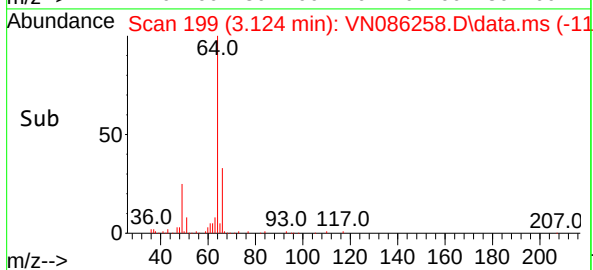
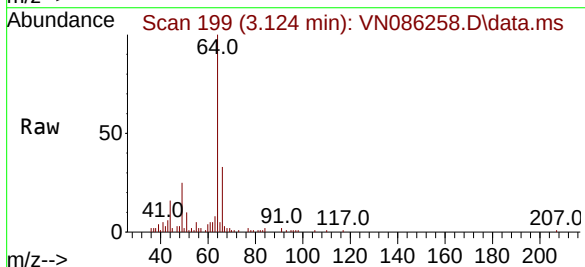
Manual Integrations
APPROVED

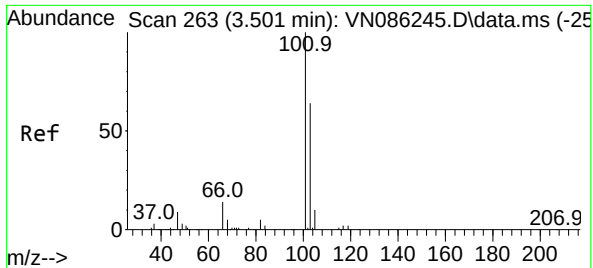
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#6
Chloroethane
Concen: 19.811 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

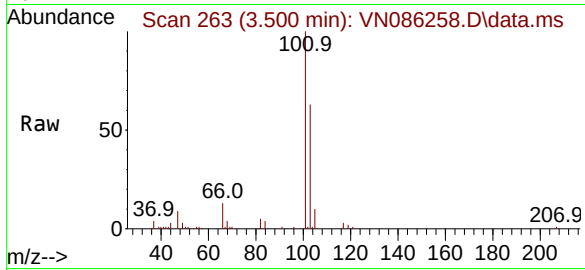
Tgt Ion: 64 Resp: 48664
Ion Ratio Lower Upper
64 100
66 33.3 25.7 38.5





#7
Trichlorofluoromethane
Concen: 19.948 ug/l
RT: 3.500 min Scan# 263
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

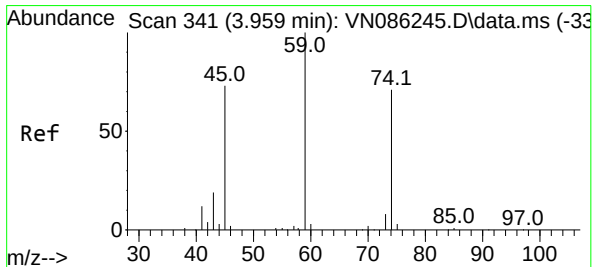
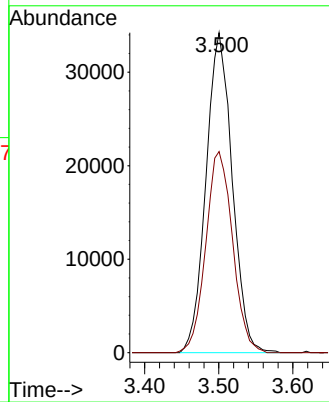
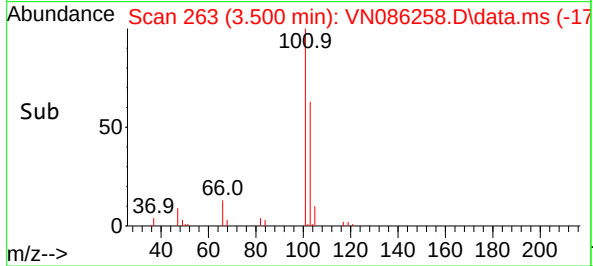
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



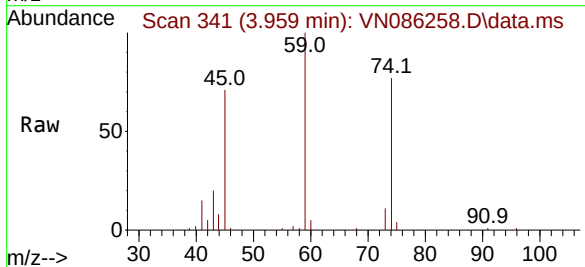
Tgt Ion: 101 Resp: 84170
Ion Ratio Lower Upper
101 100
103 62.9 51.2 76.8

Manual Integrations
APPROVED

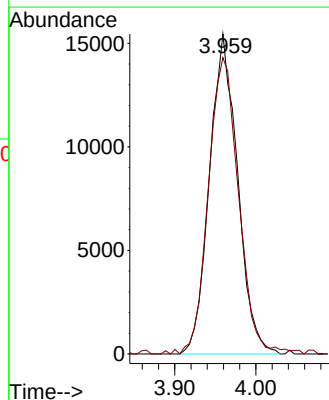
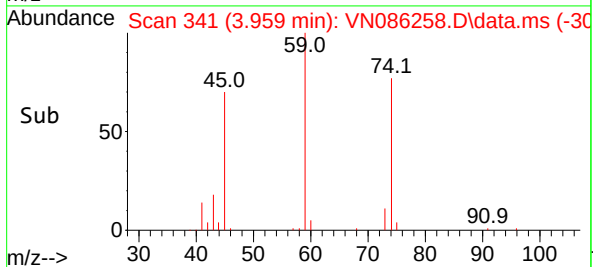
Reviewed By : John Carlone 04/16/2025
Supervised By : Semsettin Yesilyurt 04/16/2025

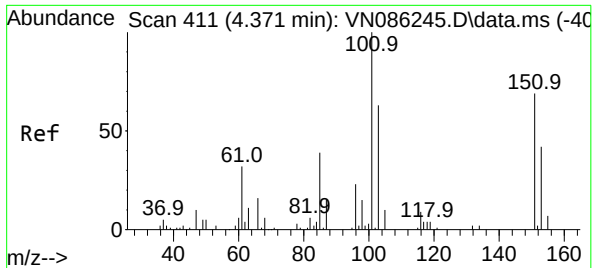


#8
Diethyl Ether
Concen: 19.109 ug/l
RT: 3.959 min Scan# 341
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30



Tgt Ion: 74 Resp: 37186
Ion Ratio Lower Upper
74 100
45 98.2 19.2 173.2





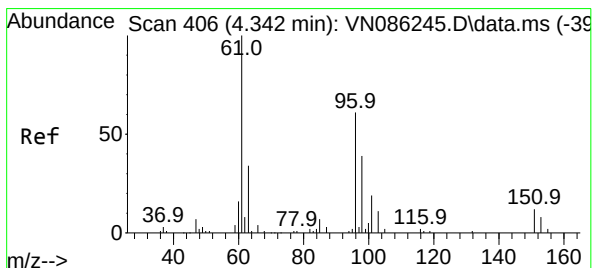
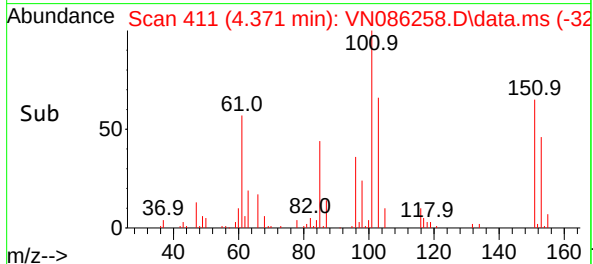
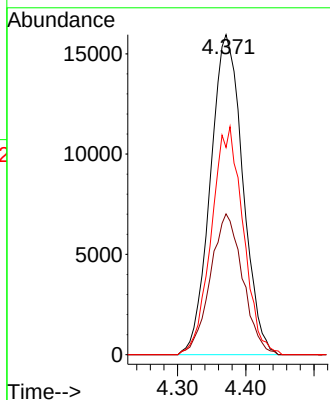
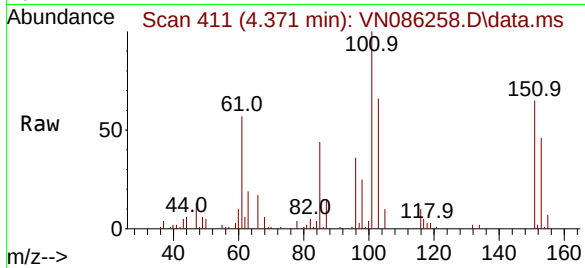
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.264 ug/l
RT: 4.371 min Scan# 411
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01

Tgt Ion:101 Resp: 52729
Ion Ratio Lower Upper
101 100
85 44.2 0.0 93.0
151 69.9 0.0 138.6

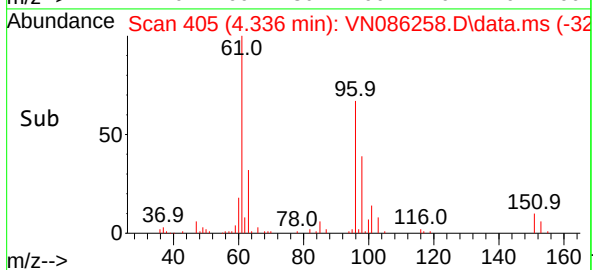
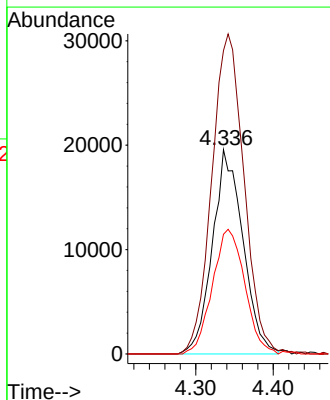
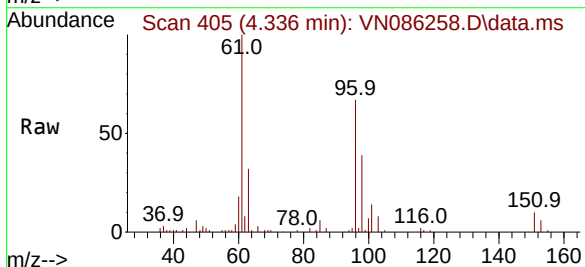
Manual Integrations
APPROVED

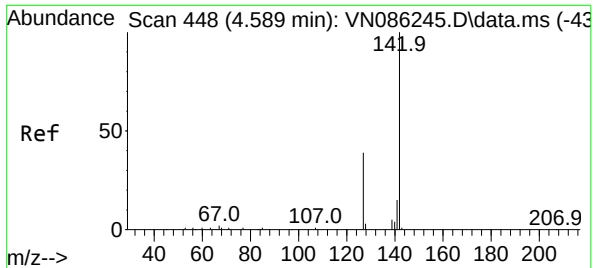
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#10
1,1-Dichloroethene
Concen: 19.074 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.006 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

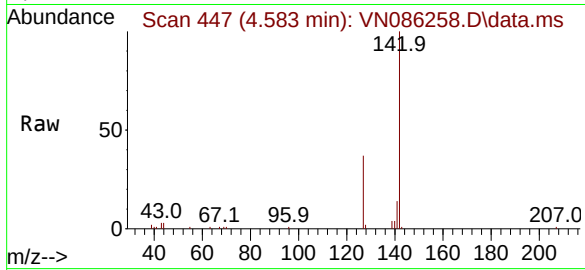
Tgt Ion: 96 Resp: 53563
Ion Ratio Lower Upper
96 100
61 148.5 131.1 196.7
98 58.6 51.6 77.4





#11
Methyl Iodide
Concen: 19.600 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

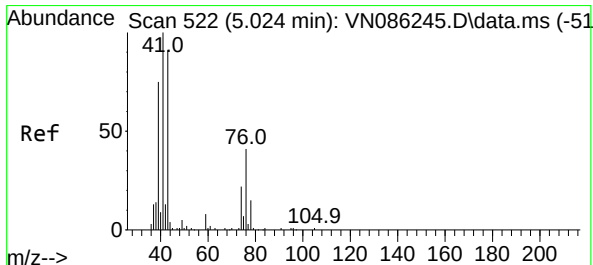
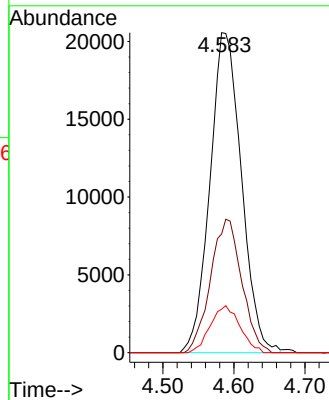
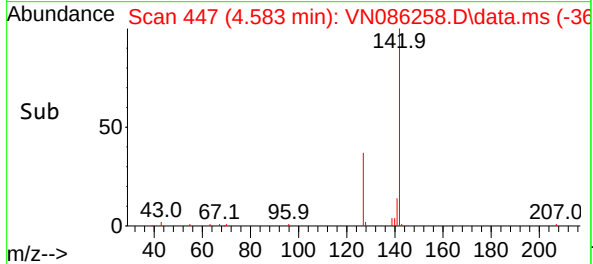
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion:142 Resp: 63260
Ion Ratio Lower Upper
142 100
127 37.2 19.6 58.8
141 13.6 7.3 21.9

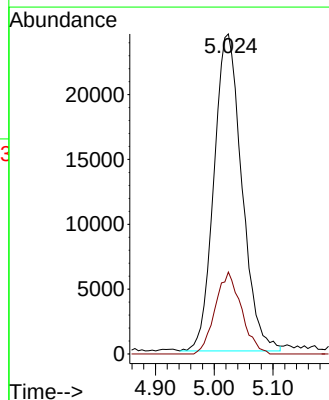
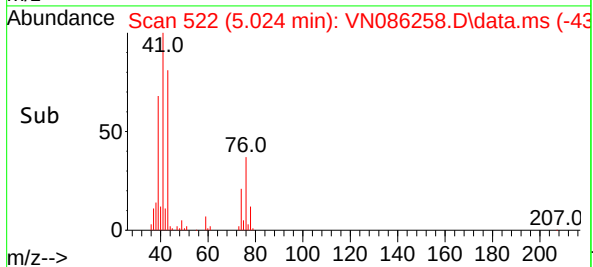
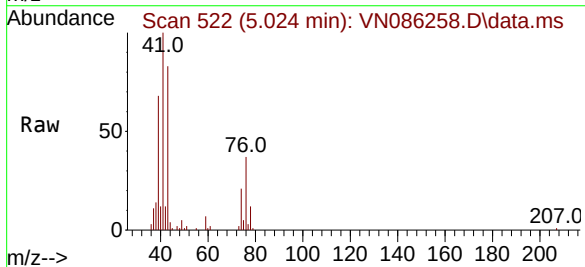
Manual Integrations
APPROVED

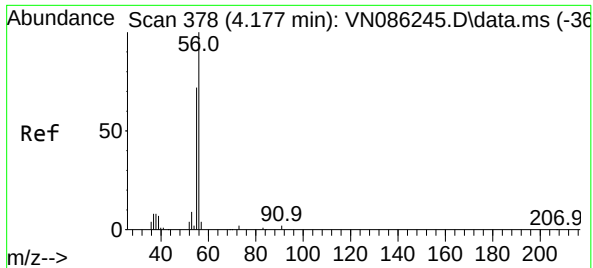
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#12
Methyl Acetate
Concen: 20.346 ug/l
RT: 5.024 min Scan# 522
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion: 43 Resp: 80685
Ion Ratio Lower Upper
43 100
74 26.0 19.1 28.7





#13

Acrolein

Concen: 115.184 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBS01

Tgt Ion: 56 Resp: 5192

Ion Ratio Lower Upper

56 100

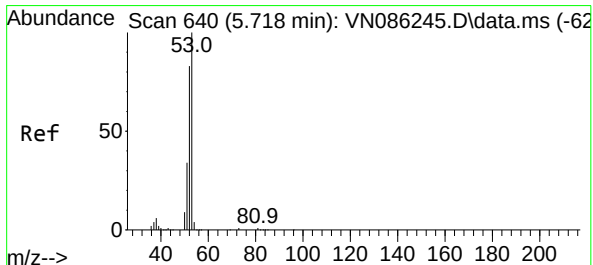
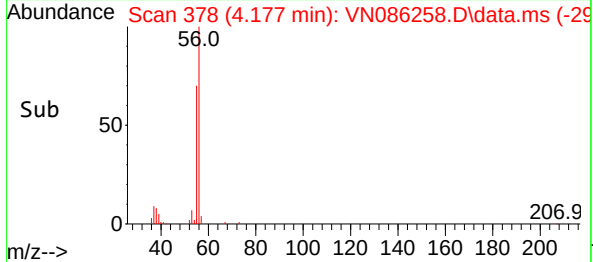
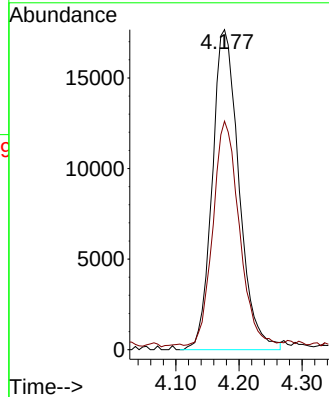
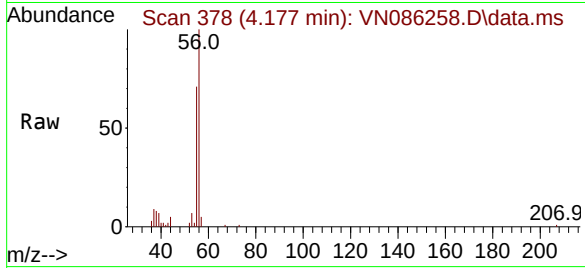
55 68.7 56.5 84.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#14

Acrylonitrile

Concen: 96.501 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

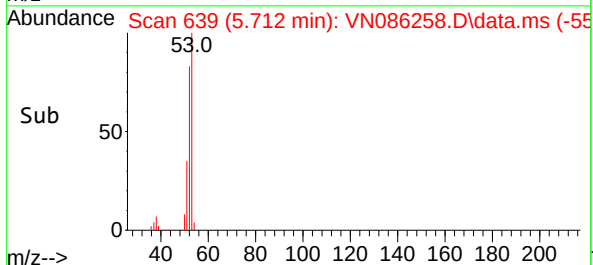
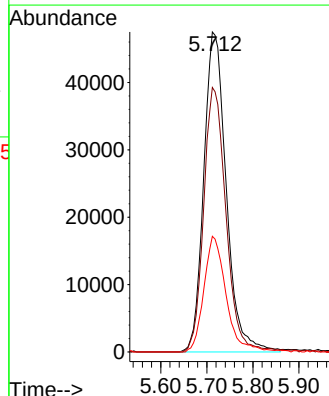
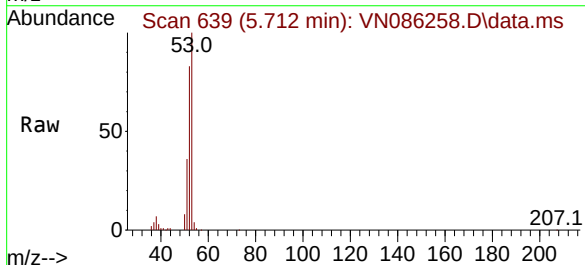
Tgt Ion: 53 Resp: 161554

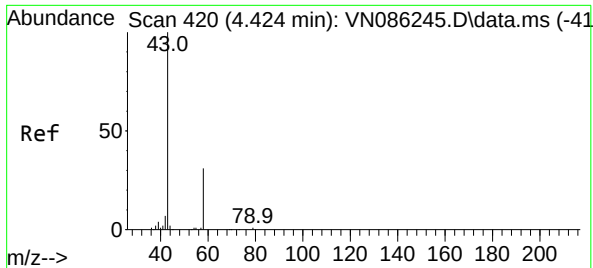
Ion Ratio Lower Upper

53 100

52 81.5 40.2 120.6

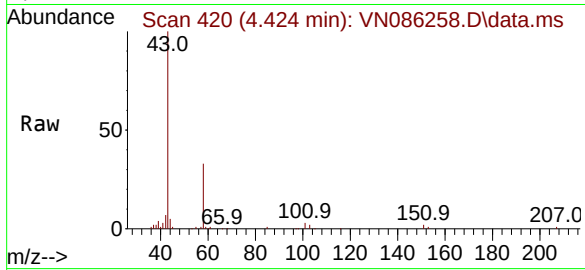
51 35.4 17.5 52.6





#15
Acetone
Concen: 94.221 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

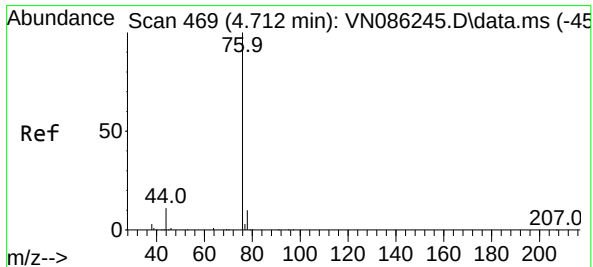
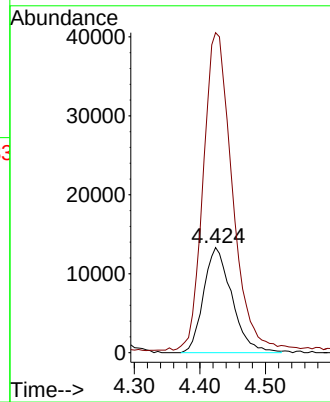
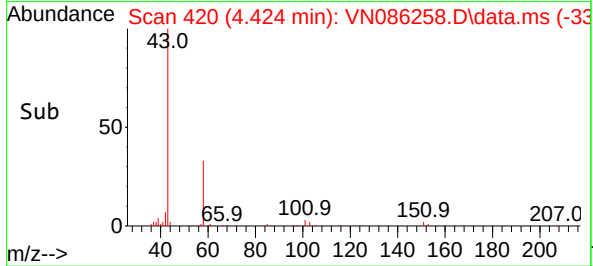
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 58 Resp: 3999
Ion Ratio Lower Upper
58 100
43 298.0 261.8 392.8

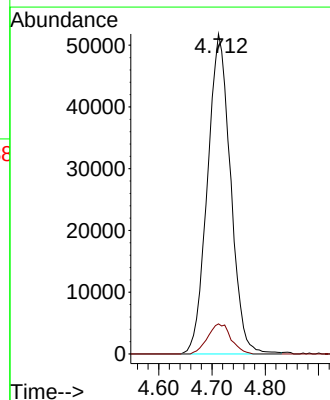
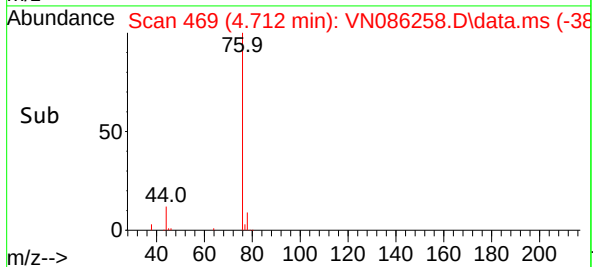
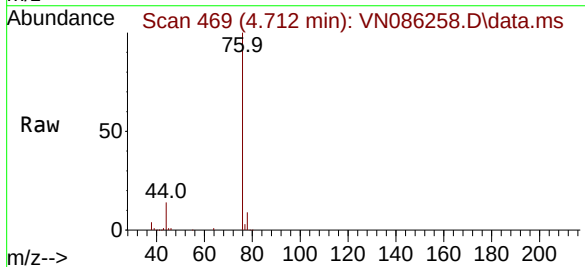
Manual Integrations
APPROVED

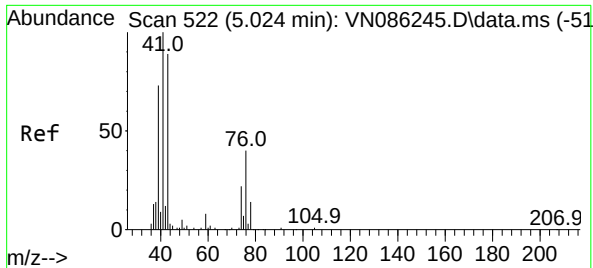
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#16
Carbon Disulfide
Concen: 19.362 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion: 76 Resp: 155915
Ion Ratio Lower Upper
76 100
78 9.4 7.7 11.5





#17

Allyl chloride

Concen: 19.604 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBS01

Tgt Ion: 41 Resp: 95949

Ion Ratio Lower Upper

41 100

39 68.9 34.4 103.2

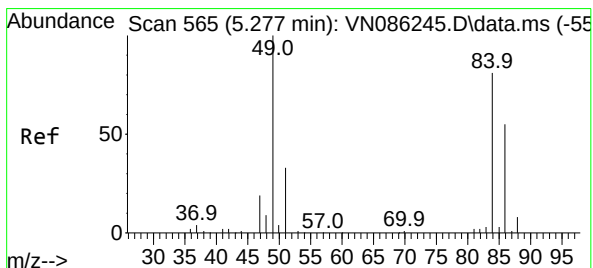
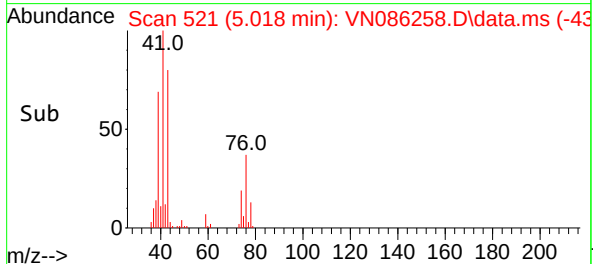
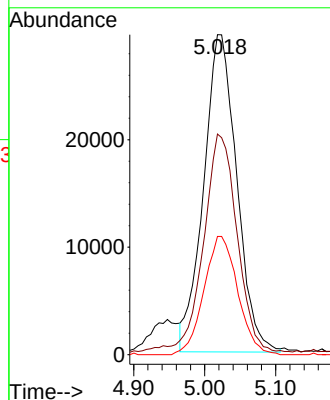
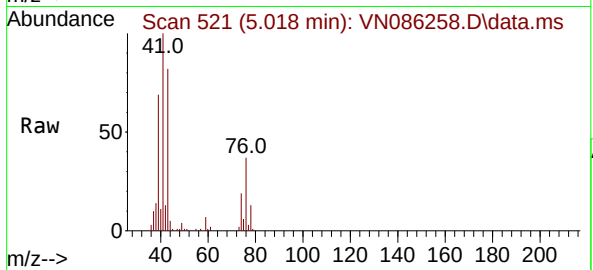
76 37.7 18.8 56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#18

Methylene Chloride

Concen: 19.455 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.000 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

Tgt Ion: 84 Resp: 62289

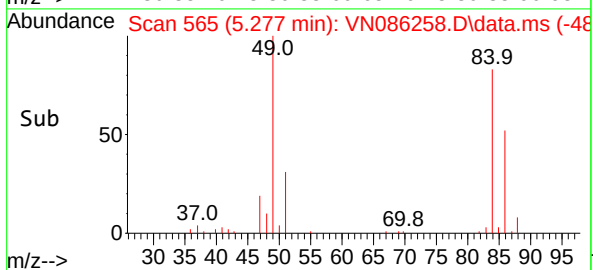
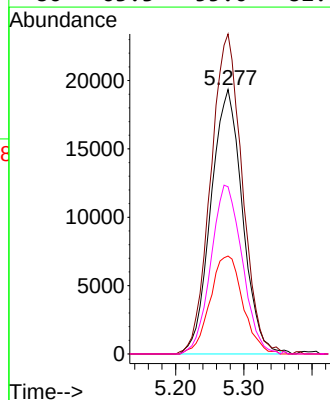
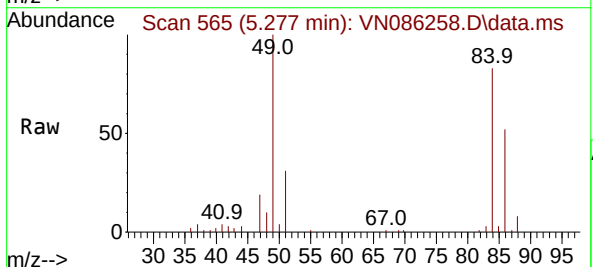
Ion Ratio Lower Upper

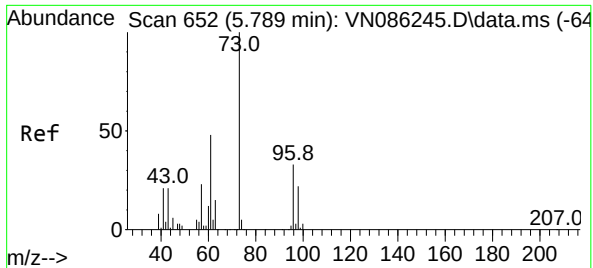
84 100

49 120.1 99.1 148.7

51 37.0 32.3 48.5

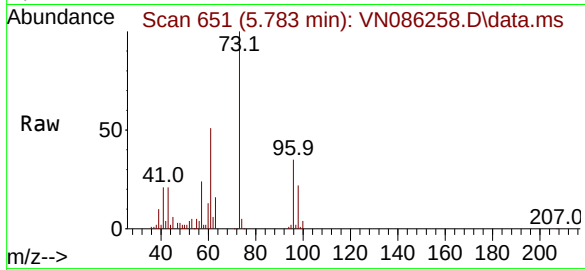
86 63.3 55.0 82.4





#19
trans-1,2-Dichloroethene
Concen: 19.267 ug/l
RT: 5.783 min Scan# 651
Delta R.T. -0.006 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

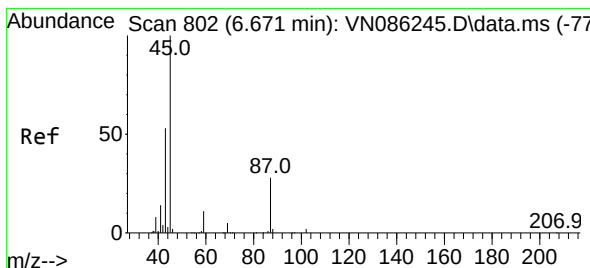
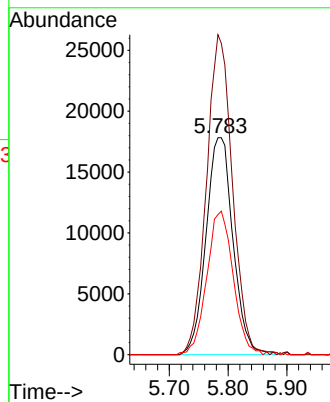
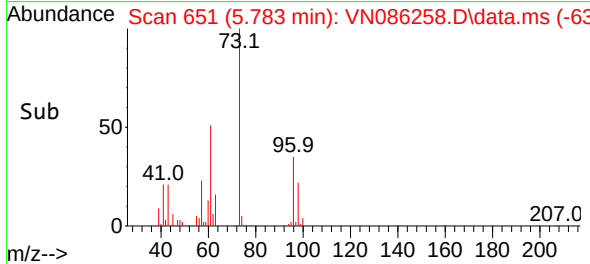
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 96 Resp: 5699
Ion Ratio Lower Upper
96 100
61 147.5 115.9 173.9
98 64.6 52.1 78.1

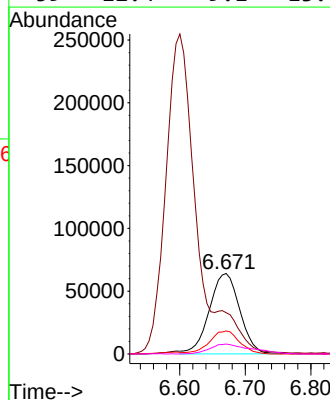
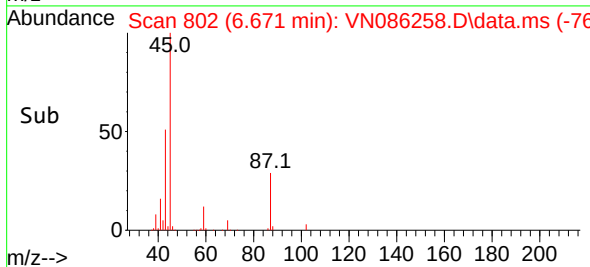
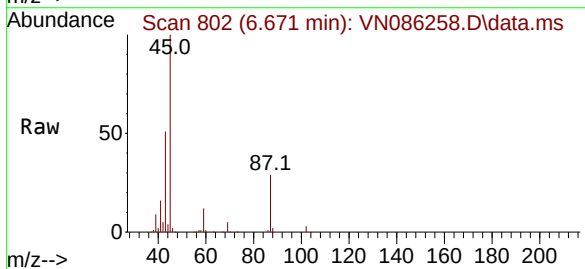
Manual Integrations
APPROVED

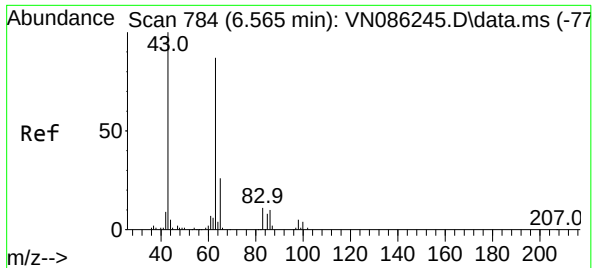
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#20
Diisopropyl ether
Concen: 19.531 ug/l
RT: 6.671 min Scan# 802
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

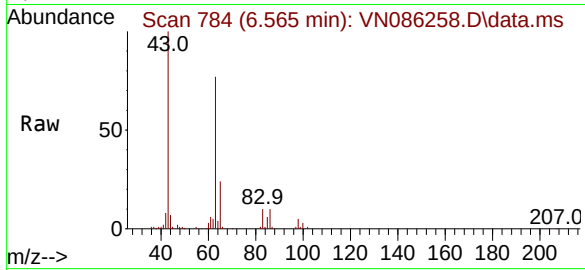
Tgt Ion: 45 Resp: 205517
Ion Ratio Lower Upper
45 100
43 49.5 42.3 63.5
87 28.6 22.2 33.4
59 12.4 9.1 13.7





#21
1,1-Dichloroethane
Concen: 20.053 ug/l
RT: 6.565 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

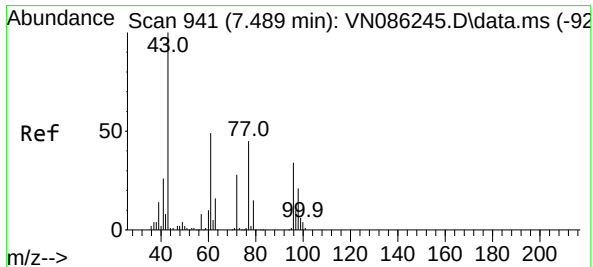
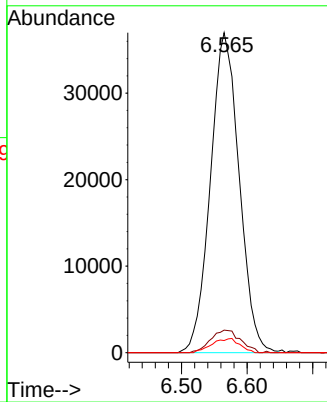
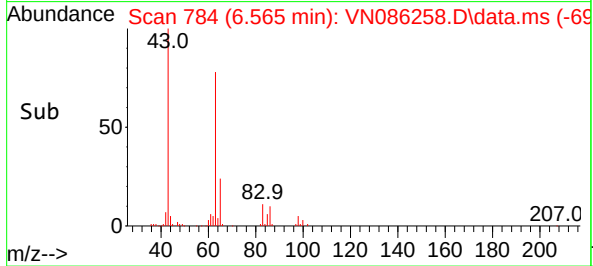
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 63 Resp: 112578
Ion Ratio Lower Upper
63 100
98 7.0 3.1 9.3
100 3.8 2.3 6.9

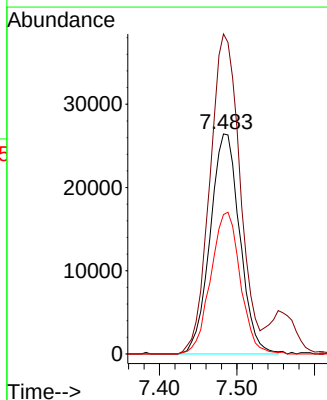
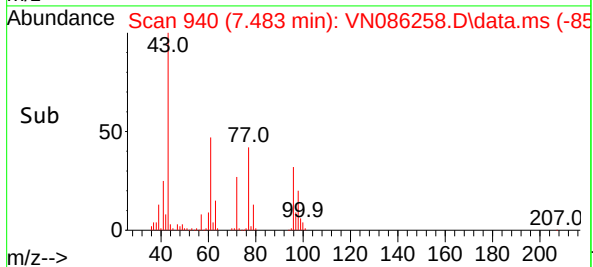
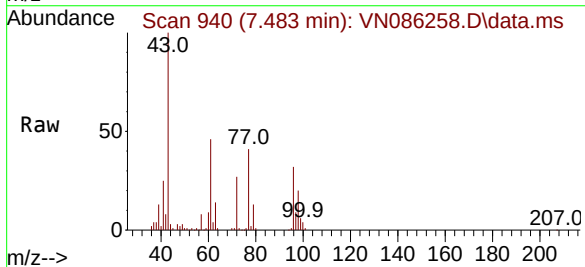
Manual Integrations
APPROVED

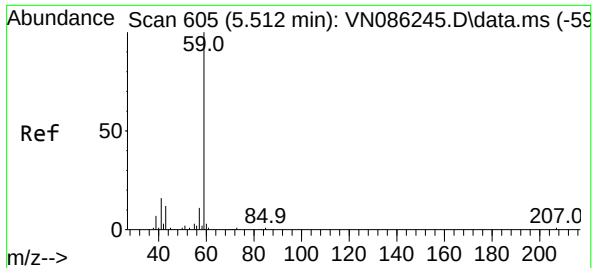
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#22
cis-1,2-Dichloroethene
Concen: 19.971 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

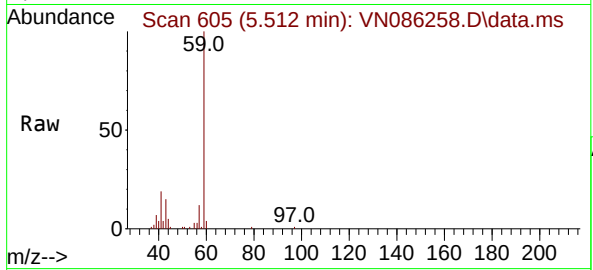
Tgt Ion: 96 Resp: 70370
Ion Ratio Lower Upper
96 100
61 147.2 119.5 179.3
98 64.0 51.0 76.6





#23
tert-Butyl Alcohol
Concen: 98.460 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

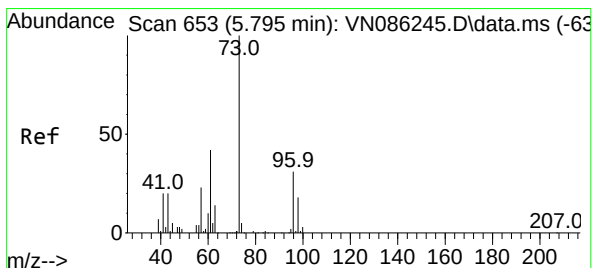
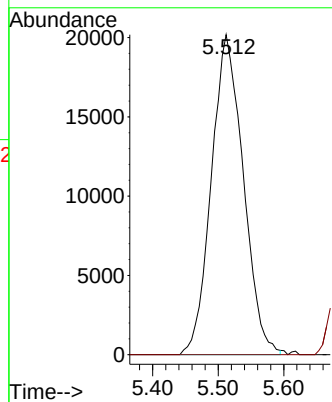
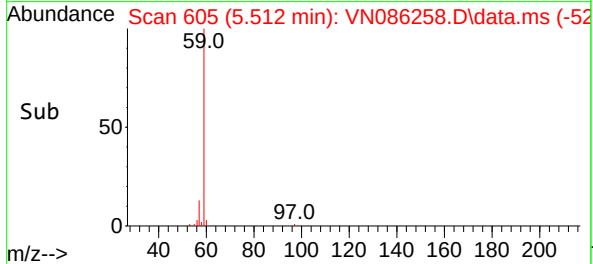
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 59 Resp: 68299
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

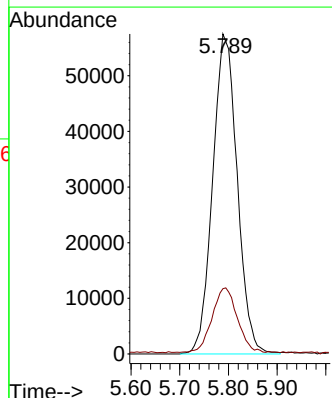
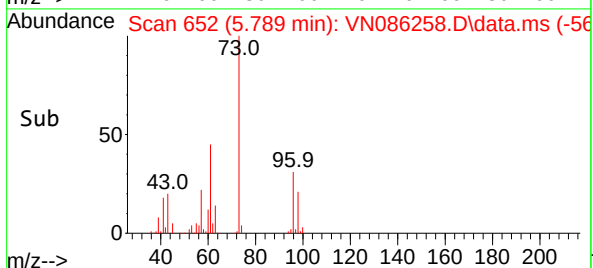
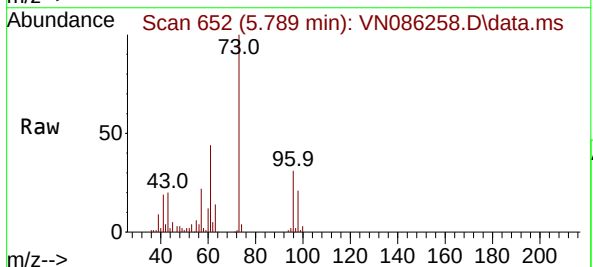
Manual Integrations
APPROVED

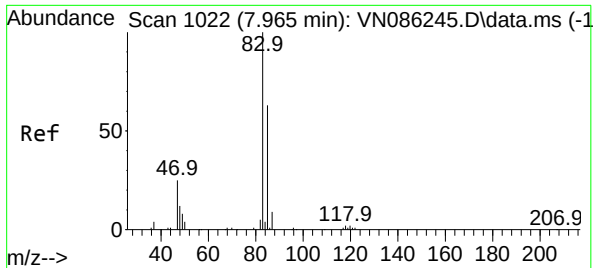
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#24
Methyl tert-Butyl Ether
Concen: 19.867 ug/l
RT: 5.789 min Scan# 652
Delta R.T. -0.006 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion: 73 Resp: 201333
Ion Ratio Lower Upper
73 100
43 20.4 16.8 25.2





#25

Chloroform

Concen: 20.358 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. -0.000 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBS01

Tgt Ion: 83 Resp: 10898

Ion Ratio Lower Upper

83 100

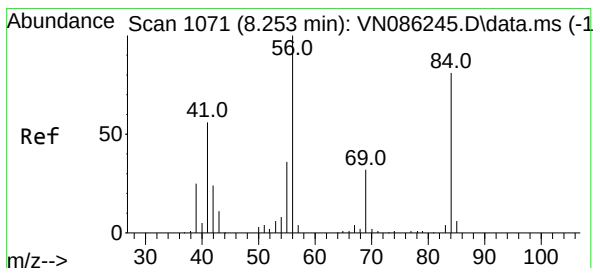
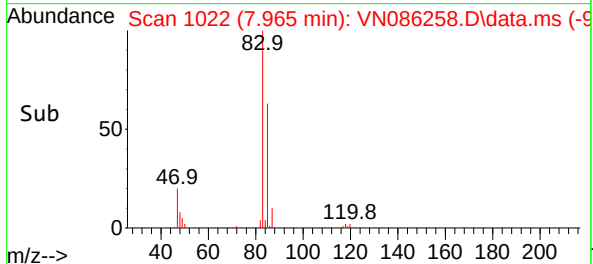
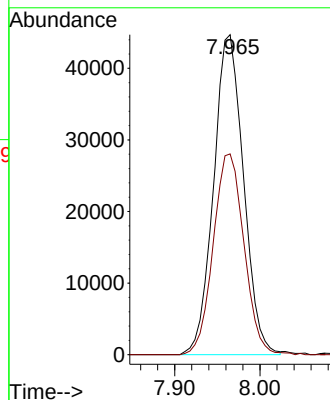
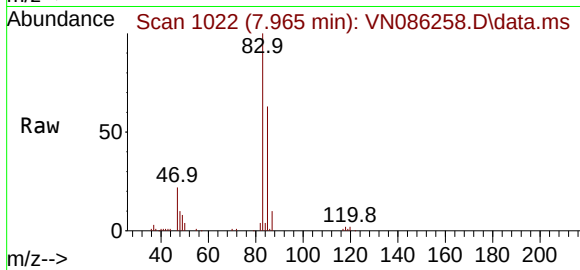
85 62.7 50.5 75.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#26

Cyclohexane

Concen: 19.857 ug/l

RT: 8.259 min Scan# 1072

Delta R.T. 0.006 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

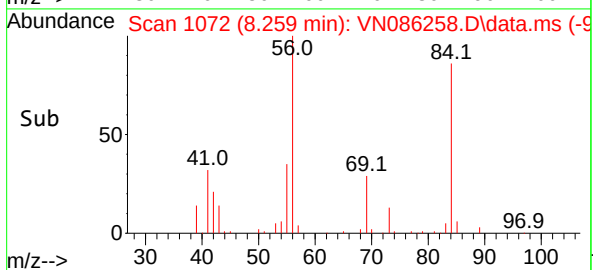
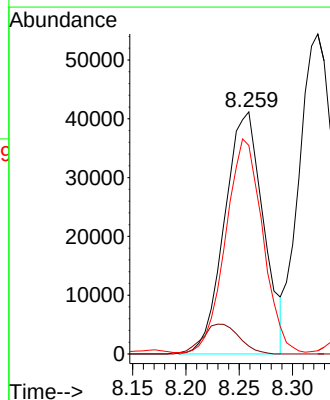
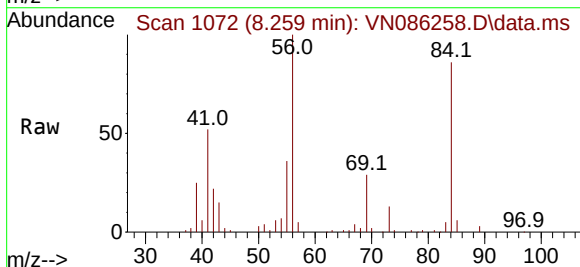
Tgt Ion: 56 Resp: 104294

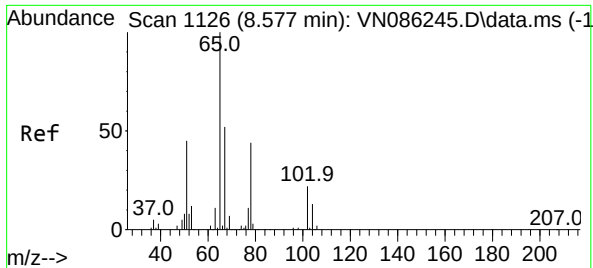
Ion Ratio Lower Upper

56 100

89 11.8 0.0 0.0#

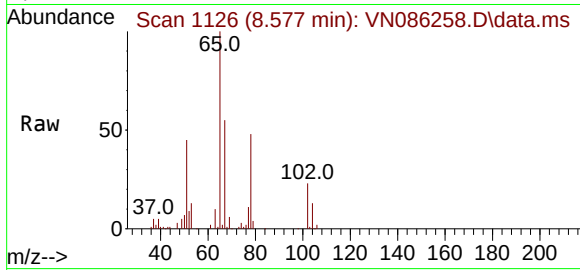
84 85.5 69.0 103.4





#27
1,2-Dichloroethane-d4
Concen: 30.001 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

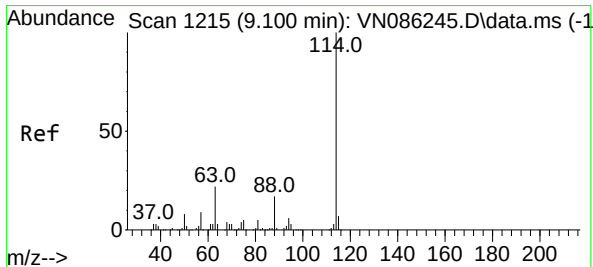
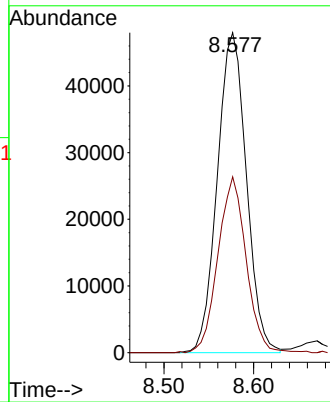
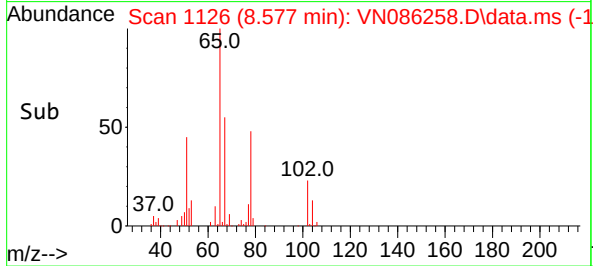
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 65 Resp: 107914
Ion Ratio Lower Upper
65 100
67 53.2 43.4 65.2

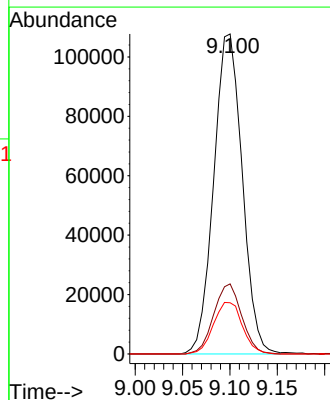
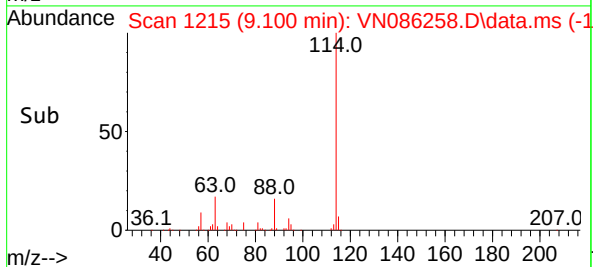
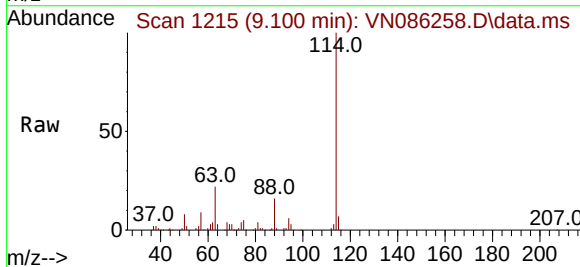
Manual Integrations
APPROVED

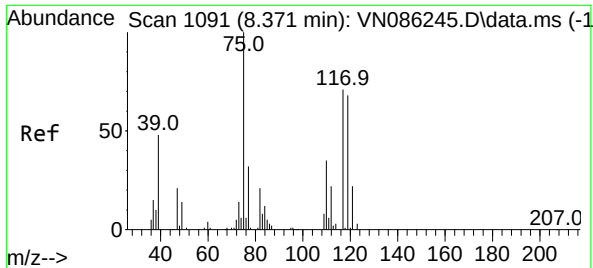
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion:114 Resp: 225158
Ion Ratio Lower Upper
114 100
63 21.4 17.8 26.6
88 16.4 13.4 20.2





#29

1,1-Dichloropropene

Concen: 19.635 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBS01

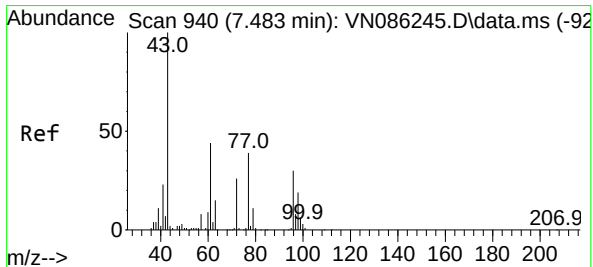
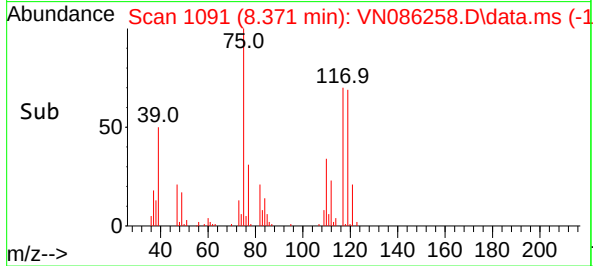
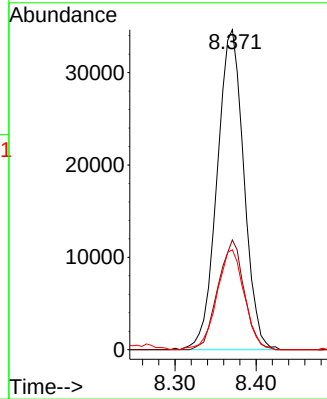
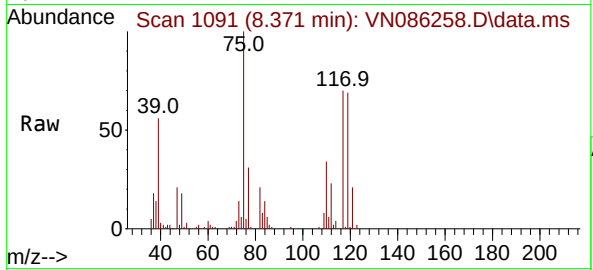
Tgt Ion: 75	Resp: 79190
Ion Ratio	Lower Upper
75 100	
110 33.7	0.0 68.6
77 32.1	0.0 63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#30

2-Butanone

Concen: 97.644 ug/l

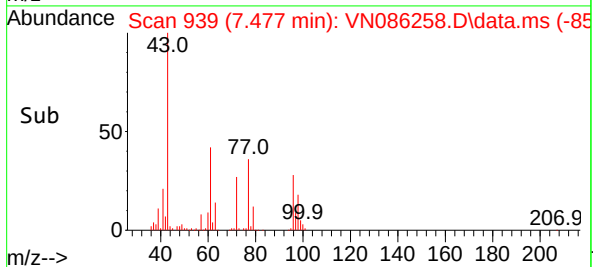
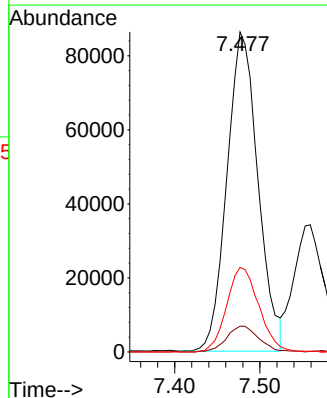
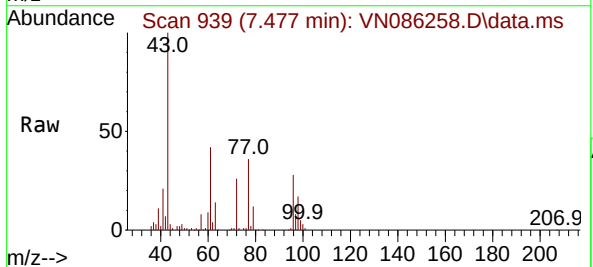
RT: 7.477 min Scan# 939

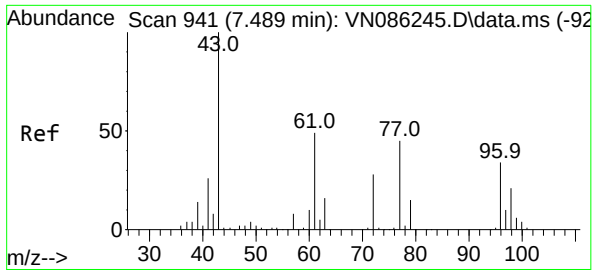
Delta R.T. -0.006 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

Tgt Ion: 43	Resp: 218235
Ion Ratio	Lower Upper
43 100	
57 8.5	6.4 9.6
72 27.5	21.5 32.3





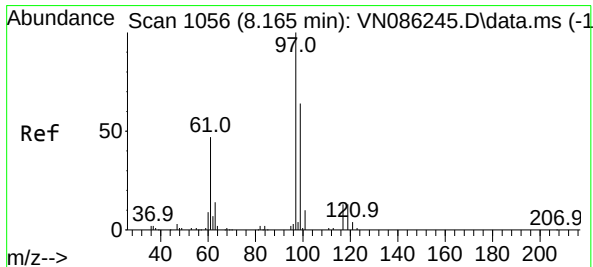
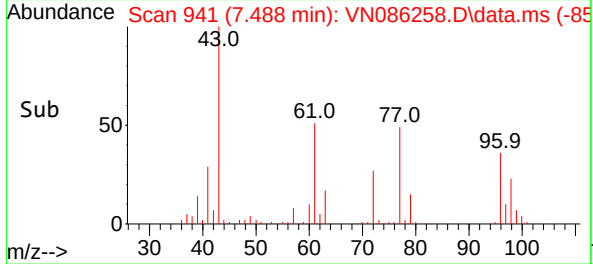
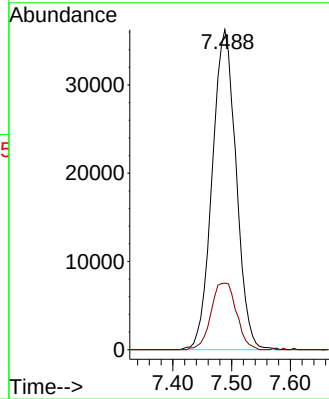
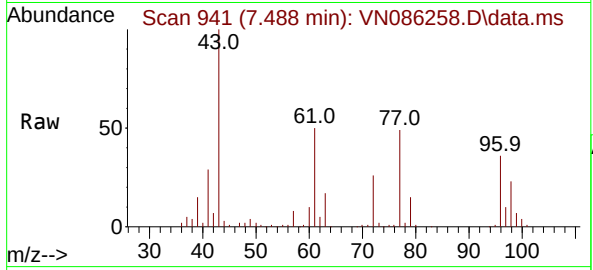
#31
2,2-Dichloropropane
Concen: 20.651 ug/l
RT: 7.488 min Scan# 941
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01

Tgt Ion: 77 Resp: 10253
Ion Ratio Lower Upper
77 100
97 22.1 18.8 28.2

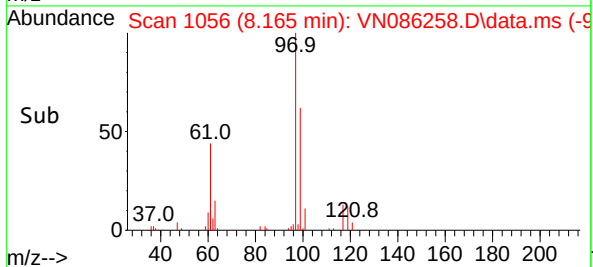
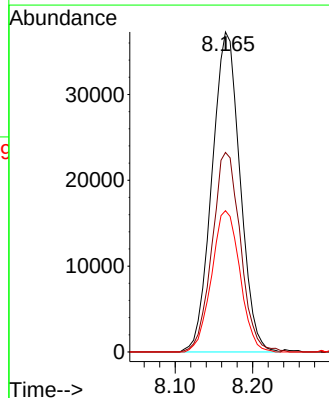
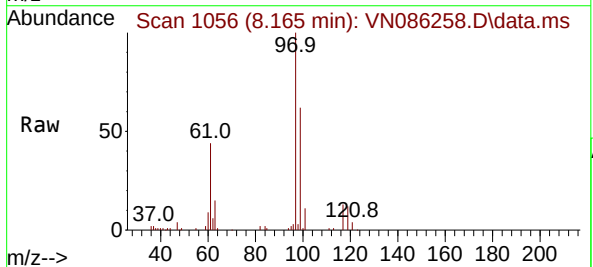
Manual Integrations
APPROVED

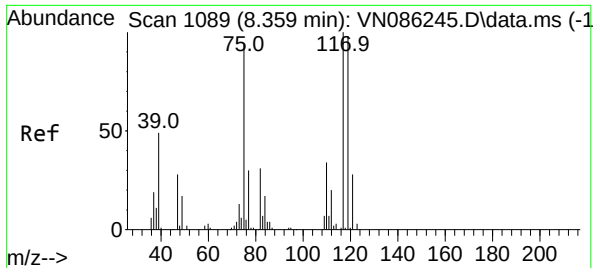
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#32
1,1,1-Trichloroethane
Concen: 20.218 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

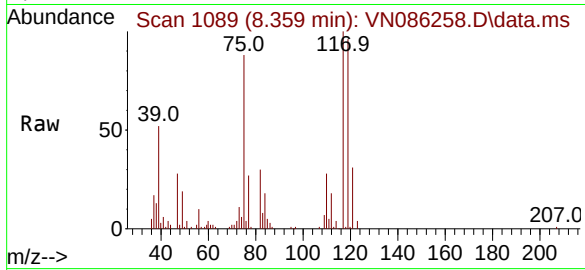
Tgt Ion: 97 Resp: 93805
Ion Ratio Lower Upper
97 100
99 63.0 51.4 77.2
61 44.7 37.0 55.6





#33
Carbon Tetrachloride
Concen: 20.613 ug/l
RT: 8.359 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

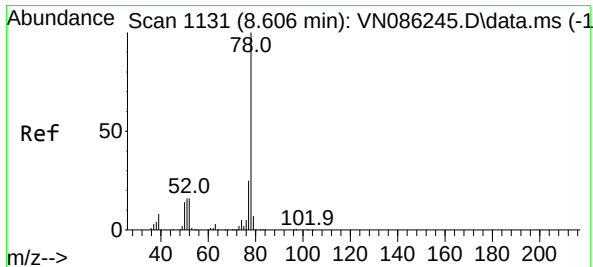
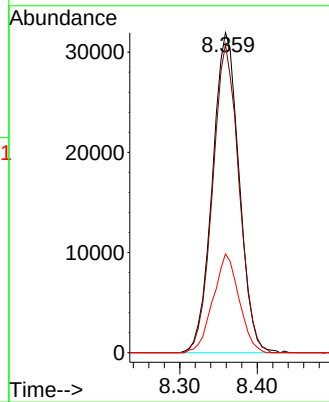
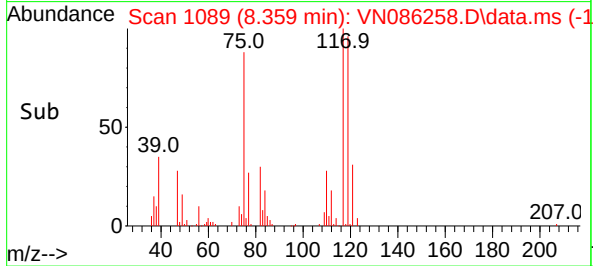
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion:117 Resp: 7643
Ion Ratio Lower Upper
117 100
119 96.3 78.3 117.5
121 30.9 22.5 33.7

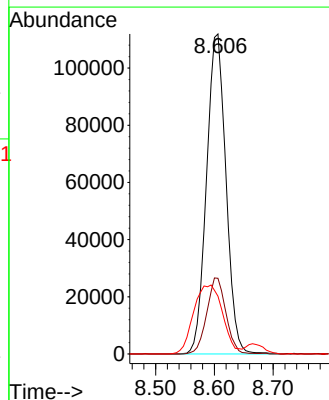
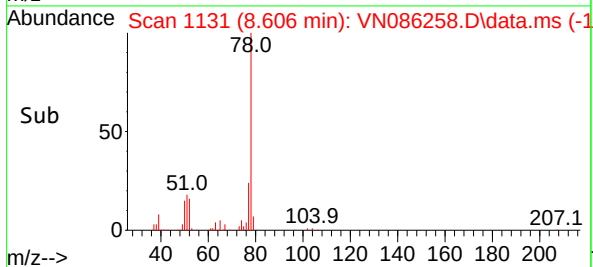
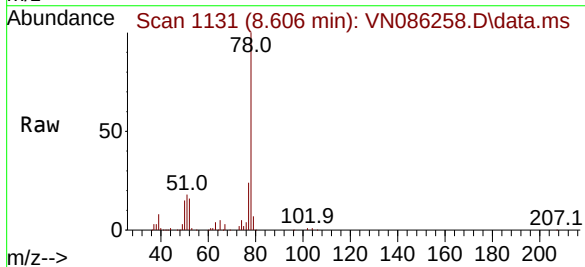
Manual Integrations
APPROVED

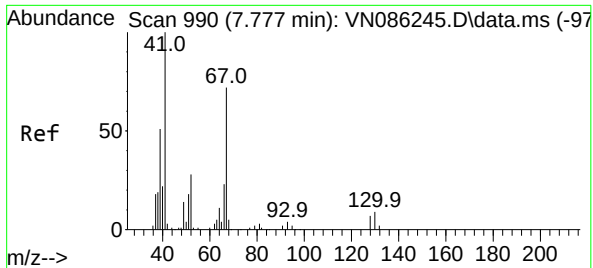
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#34
Benzene
Concen: 20.013 ug/l
RT: 8.606 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion: 78 Resp: 256807
Ion Ratio Lower Upper
78 100
77 23.7 20.0 30.0
51 18.0 12.9 19.3





#35

Methacrylonitrile

Concen: 19.094 ug/l

RT: 7.777 min Scan# 990

Delta R.T. -0.000 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBS01

Tgt Ion: 41 Resp: 48109

Ion Ratio Lower Upper

41 100

39 59.4 25.8 77.3

67 73.0 36.0 108.0

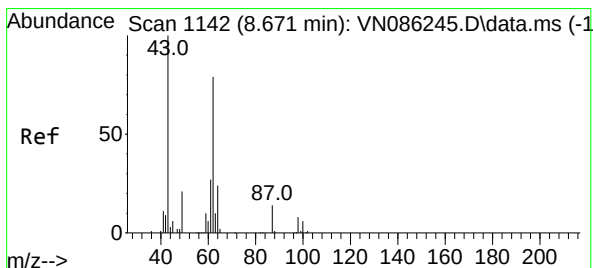
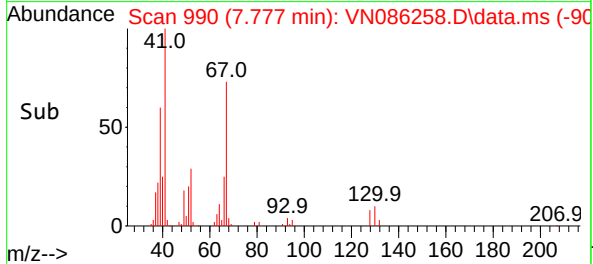
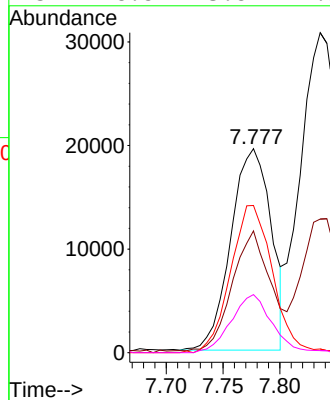
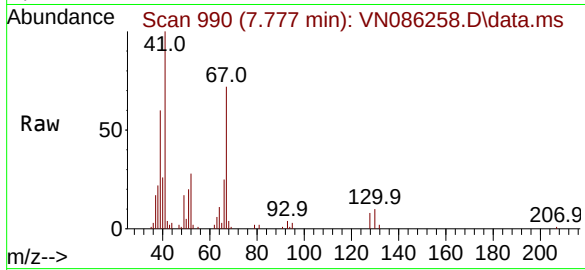
52 28.8 13.8 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#36

1,2-Dichloroethane

Concen: 19.785 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VN086258.D

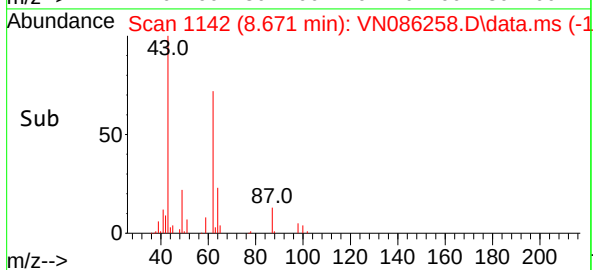
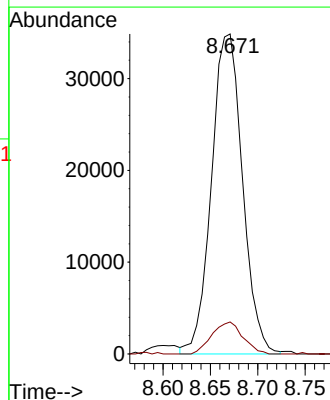
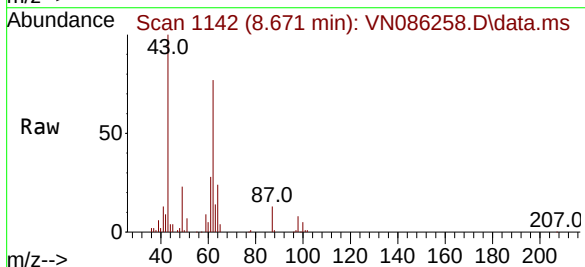
Acq: 14 Apr 2025 10:30

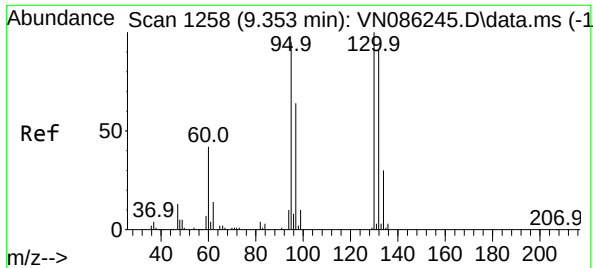
Tgt Ion: 62 Resp: 79447

Ion Ratio Lower Upper

62 100

98 10.0 8.6 12.8





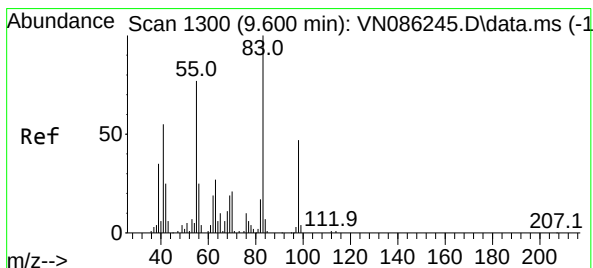
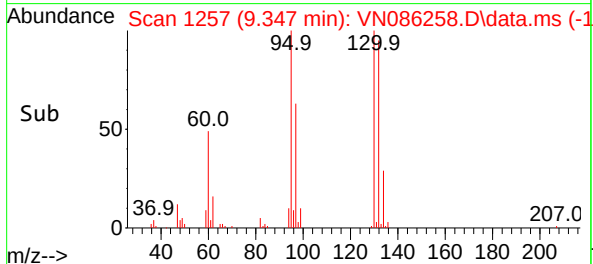
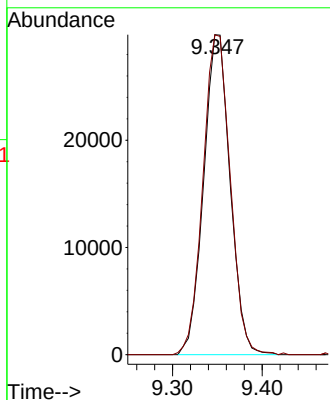
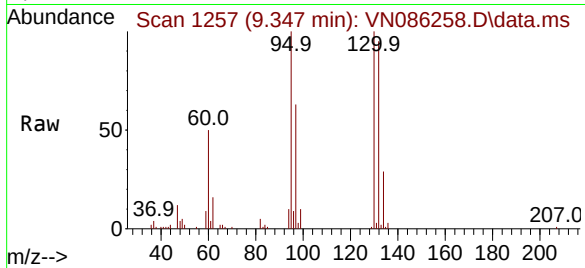
#37
Trichloroethene
Concen: 19.758 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01

Tgt Ion:130 Resp: 6117
Ion Ratio Lower Upper
130 100
95 100.0 76.4 114.6

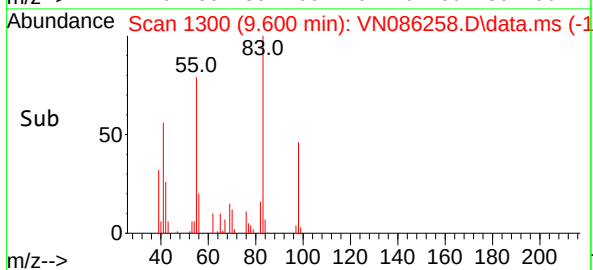
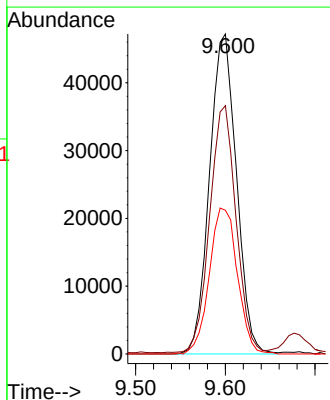
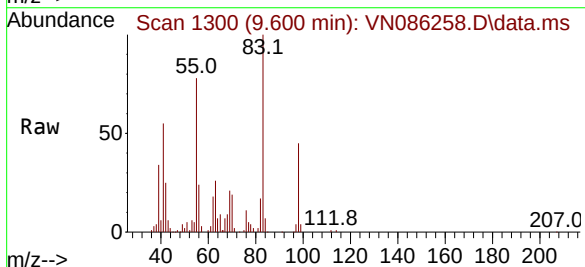
Manual Integrations
APPROVED

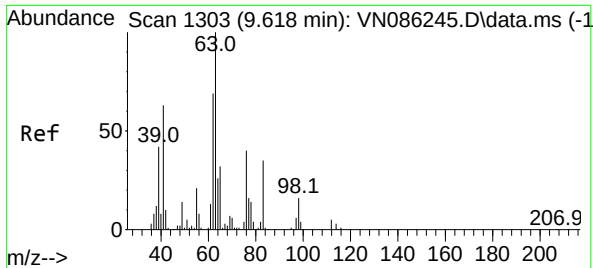
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#38
Methylcyclohexane
Concen: 19.899 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion: 83 Resp: 98435
Ion Ratio Lower Upper
83 100
55 75.3 38.5 115.5
98 47.5 24.4 73.2





#39

1,2-Dichloropropane

Concen: 20.160 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. -0.000 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBS01

Tgt Ion: 63 Resp: 64370

Ion Ratio Lower Upper

63 100

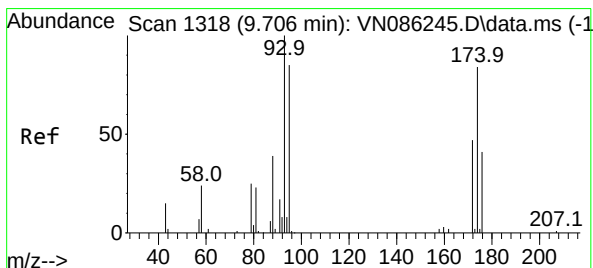
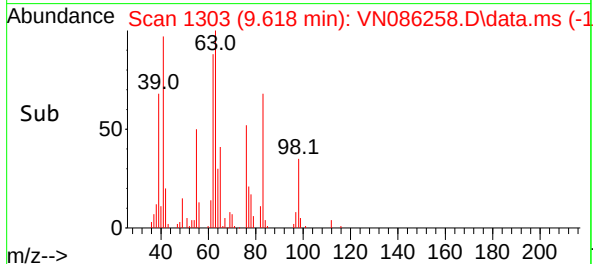
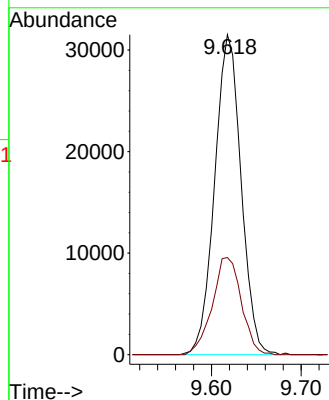
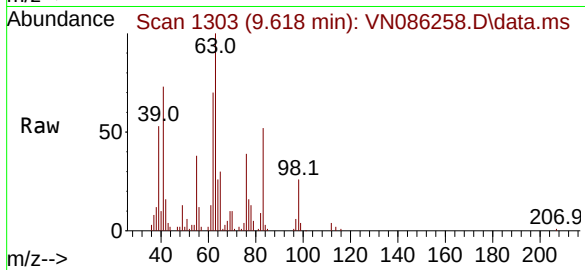
65 30.4 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Dibromomethane

Concen: 19.309 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. -0.000 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

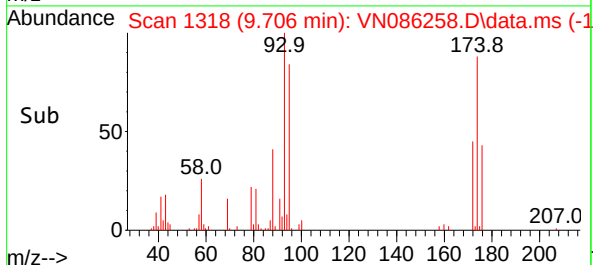
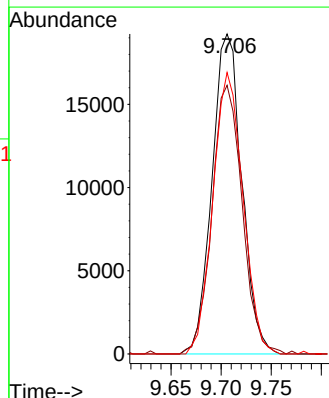
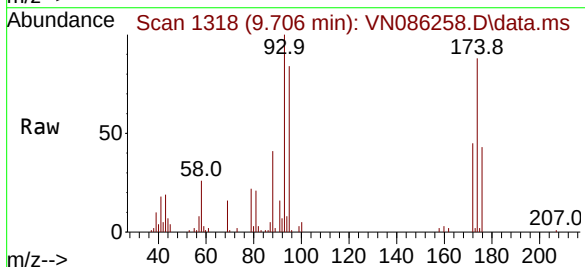
Tgt Ion: 93 Resp: 39821

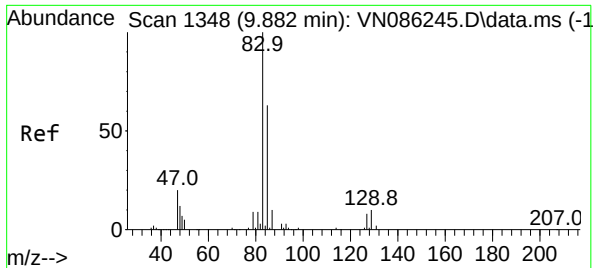
Ion Ratio Lower Upper

93 100

95 85.0 0.0 169.0

174 88.5 0.0 168.0





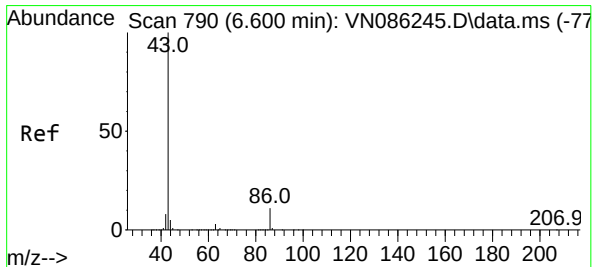
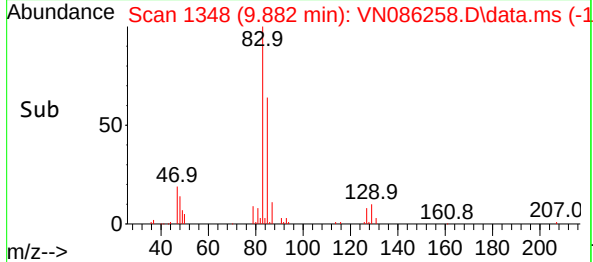
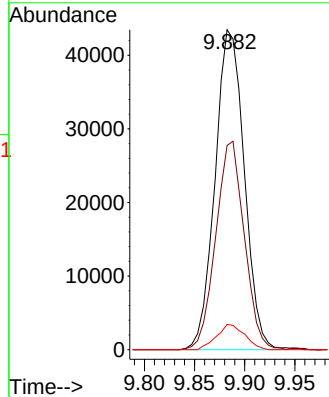
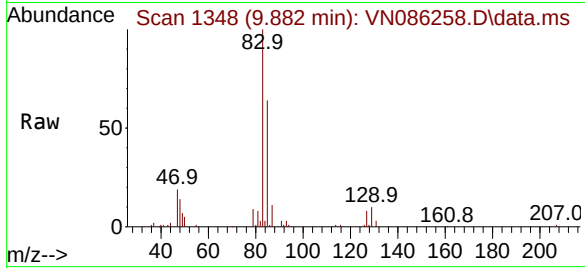
#41
Bromodichloromethane
Concen: 19.839 ug/l
RT: 9.882 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01

Tgt Ion: 83 Resp: 8789
Ion Ratio Lower Upper
83 100
85 63.8 50.2 75.2
127 7.9 6.2 9.4

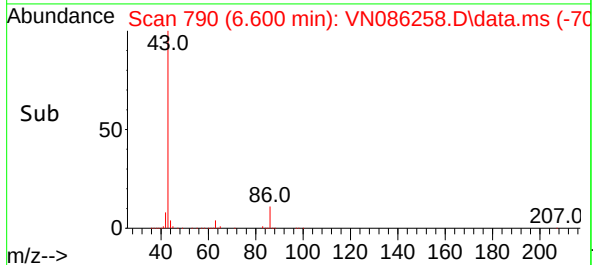
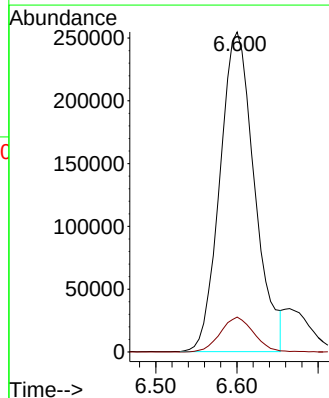
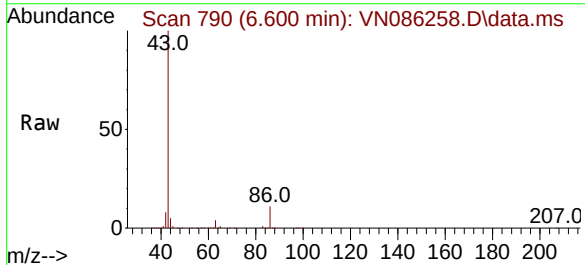
Manual Integrations
APPROVED

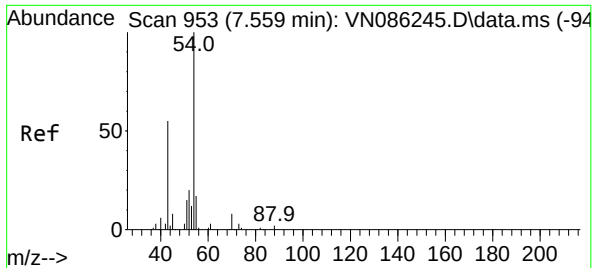
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#42
Vinyl Acetate
Concen: 99.130 ug/l
RT: 6.600 min Scan# 790
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

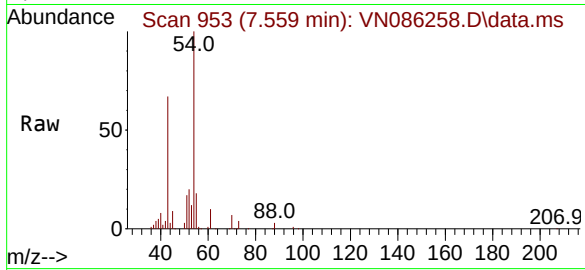
Tgt Ion: 43 Resp: 754169
Ion Ratio Lower Upper
43 100
86 10.5 8.4 12.6





#43
Ethyl Acetate
Concen: 18.816 ug/l
RT: 7.559 min Scan# 911
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

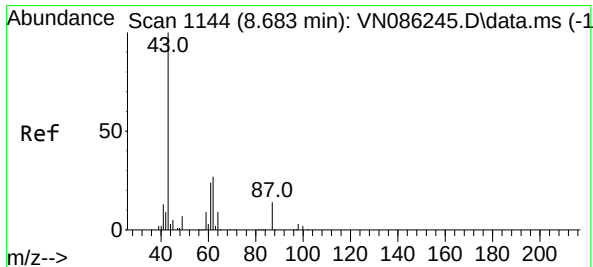
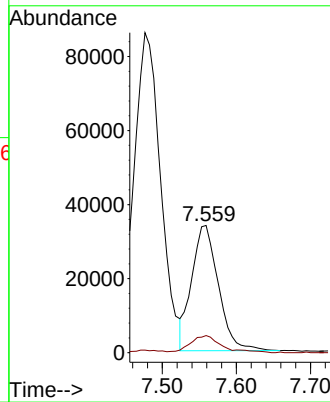
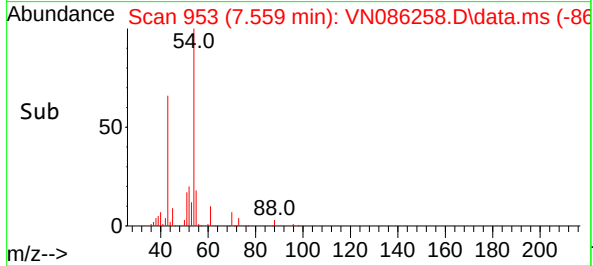
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 43 Resp: 84824
Ion Ratio Lower Upper
43 100
45 14.3 11.2 16.8

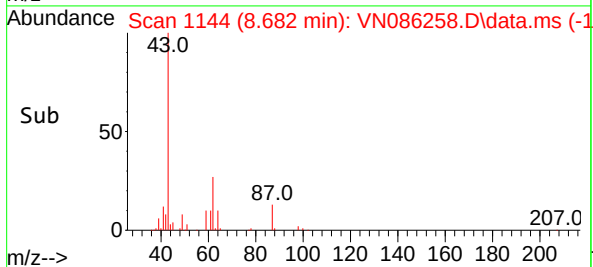
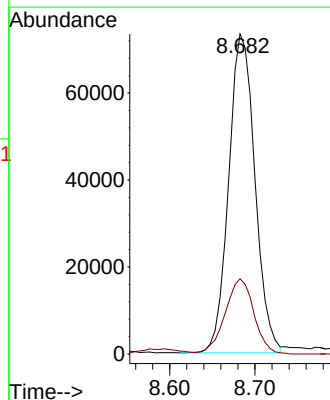
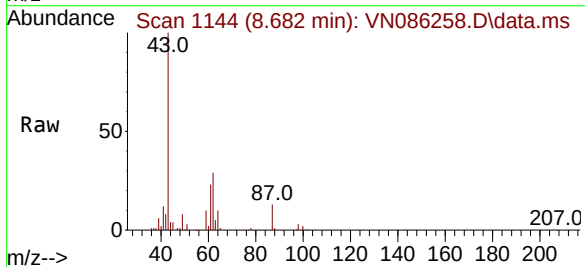
Manual Integrations
APPROVED

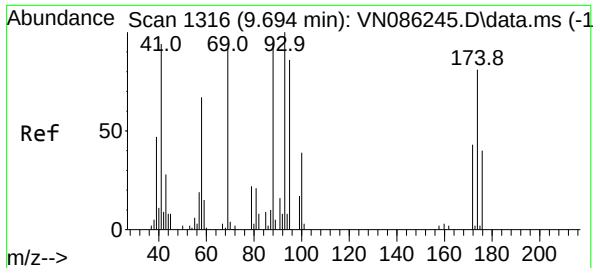
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#44
Isopropyl Acetate
Concen: 18.769 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion: 43 Resp: 156967
Ion Ratio Lower Upper
43 100
61 25.8 20.5 30.7





#45

1,4-Dioxane

Concen: 407.987 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. -0.000 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBS01

Tgt Ion: 88 Resp: 27132

Ion Ratio Lower Upper

88 100

43 30.0 14.4 21.6

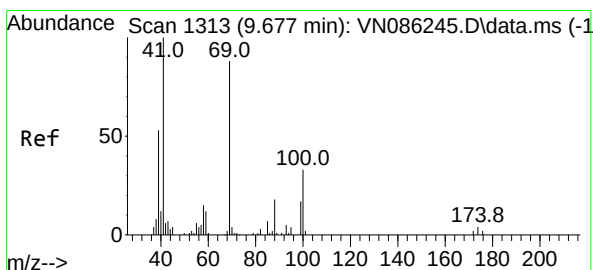
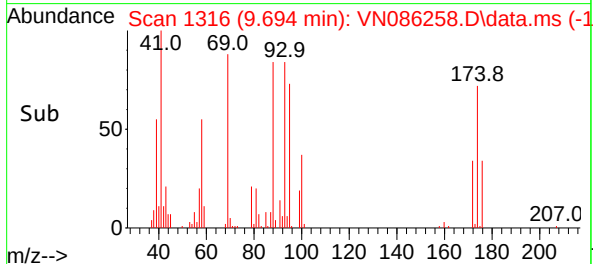
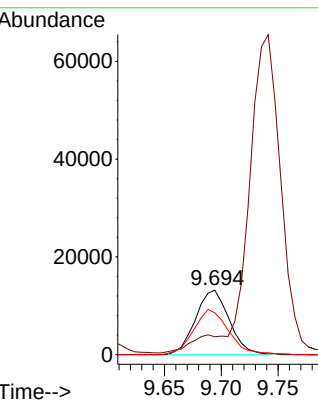
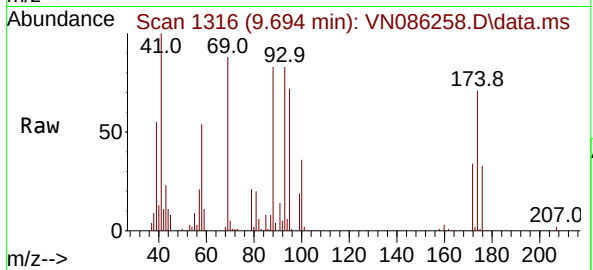
58 73.3 59.8 89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#46

Methyl methacrylate

Concen: 19.104 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. -0.000 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

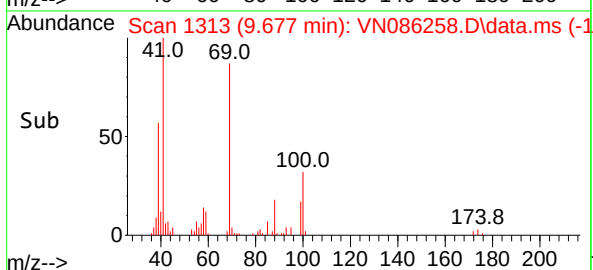
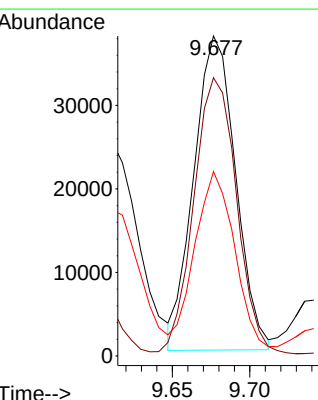
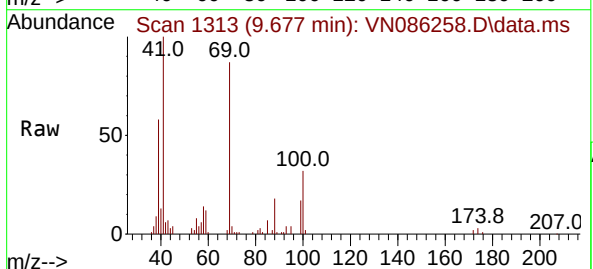
Tgt Ion: 41 Resp: 70397

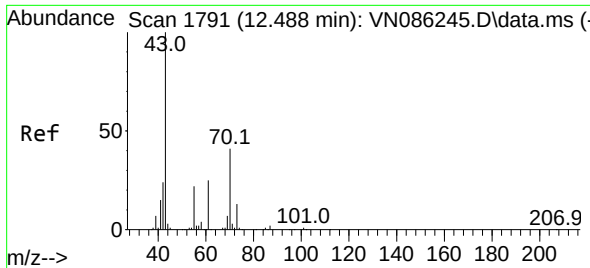
Ion Ratio Lower Upper

41 100

69 88.5 43.2 129.6

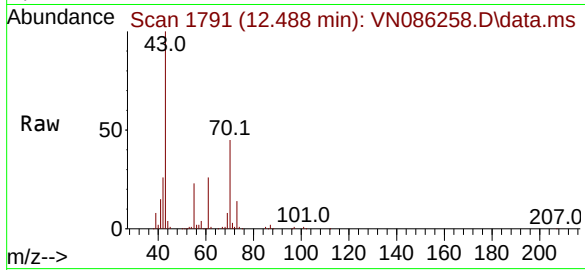
39 57.5 26.4 79.0





#47
n-amy1 Acetate
Concen: 18.861 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

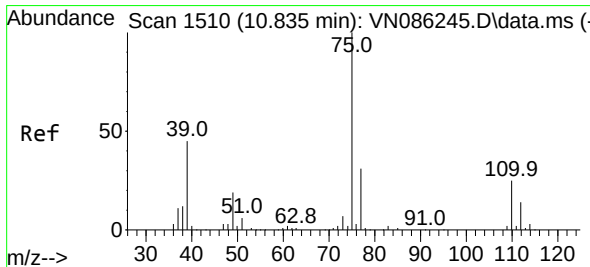
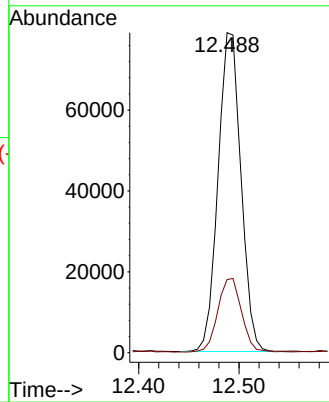
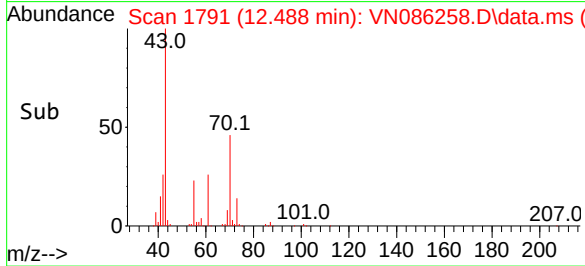
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 43 Resp: 125064
Ion Ratio Lower Upper
43 100
55 23.7 19.0 28.4

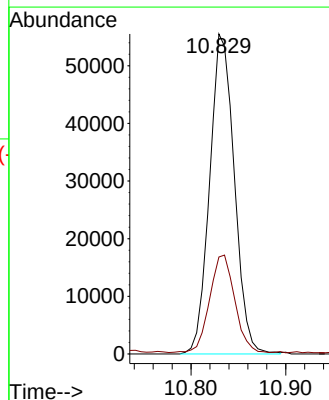
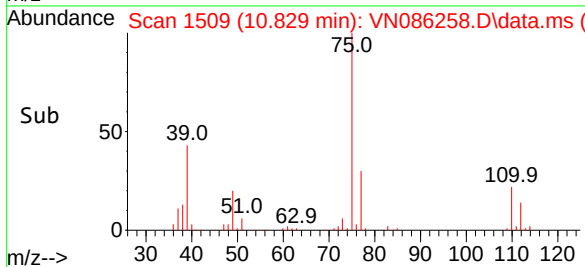
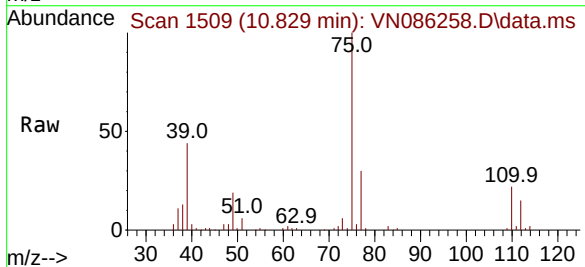
Manual Integrations
APPROVED

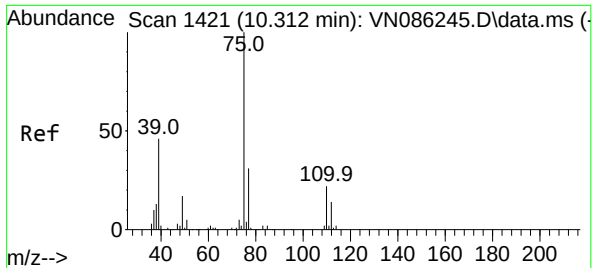
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#48
t-1,3-Dichloropropene
Concen: 20.045 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. -0.006 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

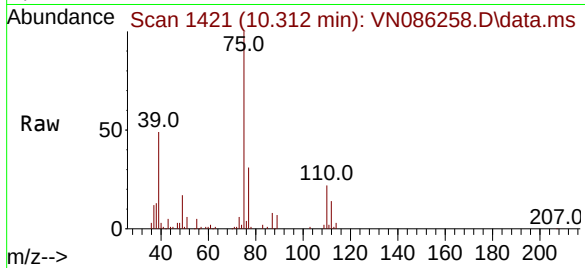
Tgt Ion: 75 Resp: 100398
Ion Ratio Lower Upper
75 100
77 29.6 25.1 37.7





#49
cis-1,3-Dichloropropene
Concen: 20.080 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

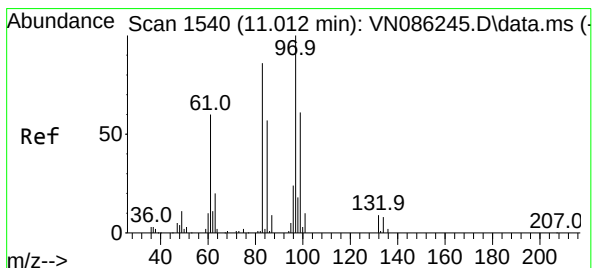
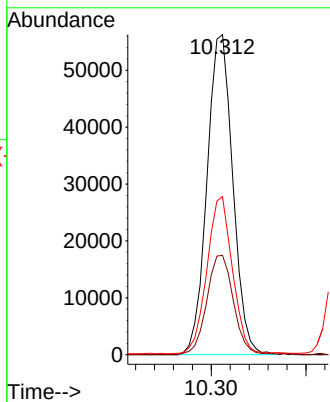
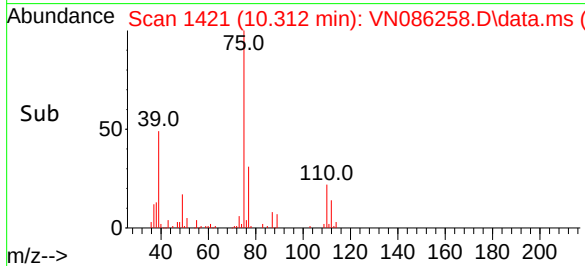
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 75 Resp: 10644
Ion Ratio Lower Upper
75 100
77 31.0 25.0 37.4
39 49.0 36.7 55.1

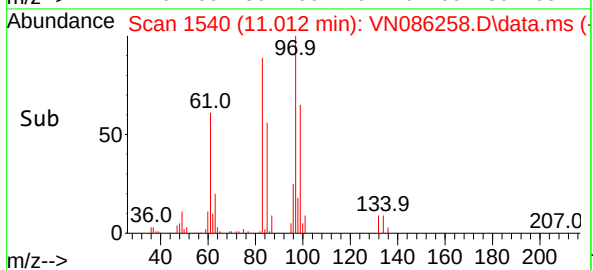
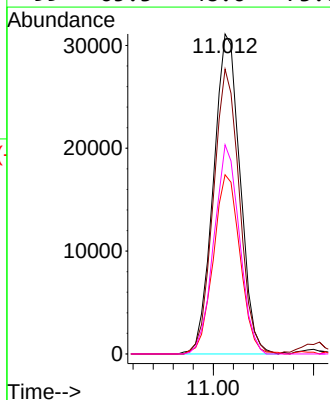
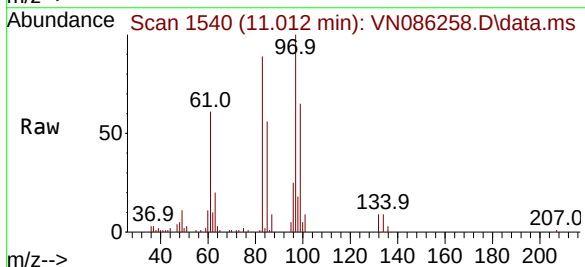
Manual Integrations
APPROVED

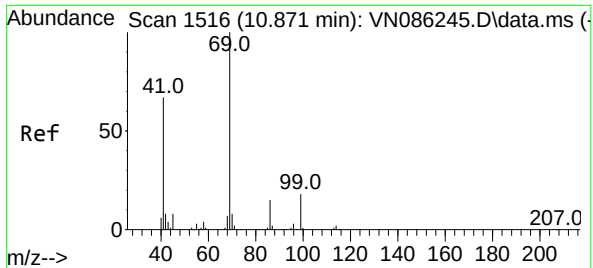
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#50
1,1,2-Trichloroethane
Concen: 19.847 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

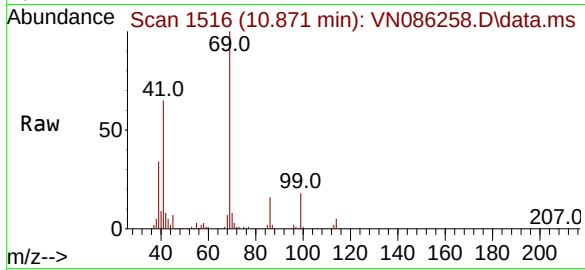
Tgt Ion: 97 Resp: 57405
Ion Ratio Lower Upper
97 100
83 89.0 68.6 103.0
85 56.0 45.9 68.9
99 65.3 48.6 73.0





#51
Ethyl methacrylate
Concen: 19.966 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

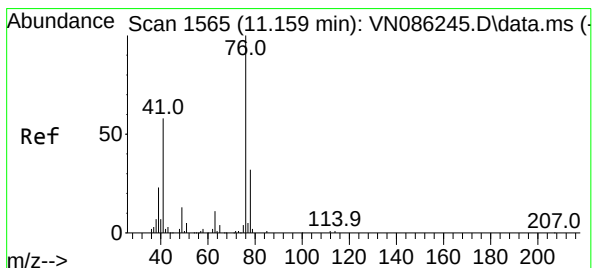
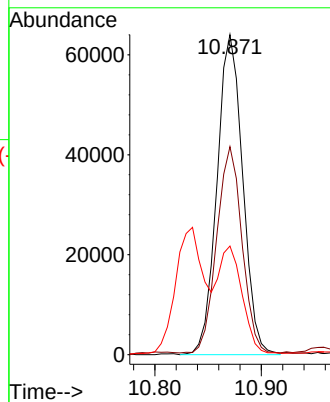
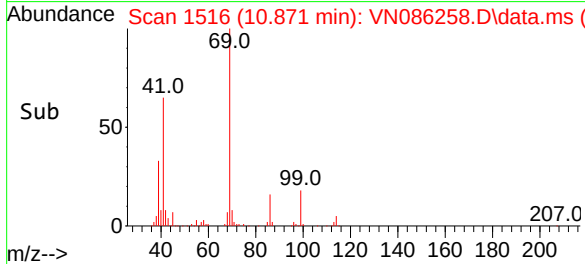
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 69 Resp: 107320
Ion Ratio Lower Upper
69 100
41 64.4 33.6 100.6
39 33.5 17.8 53.4

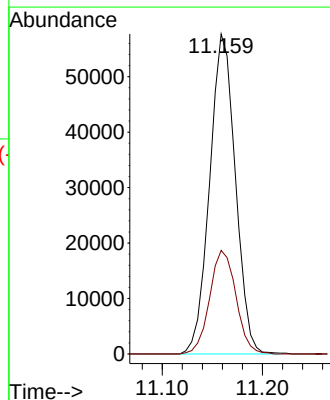
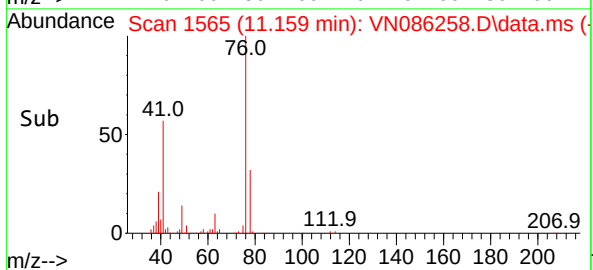
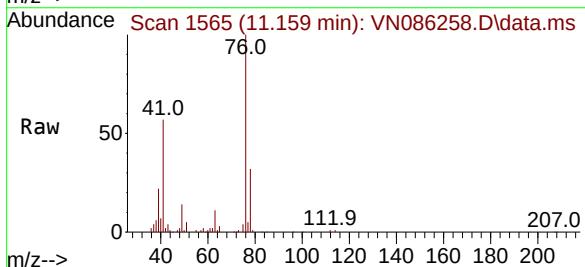
Manual Integrations
APPROVED

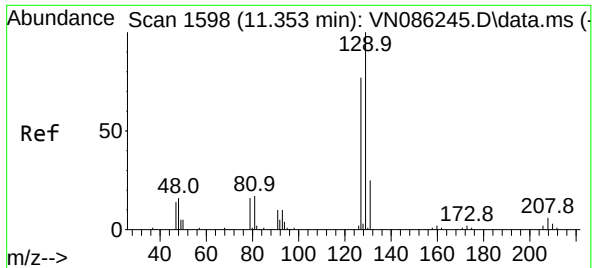
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#52
1,3-Dichloropropane
Concen: 19.953 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

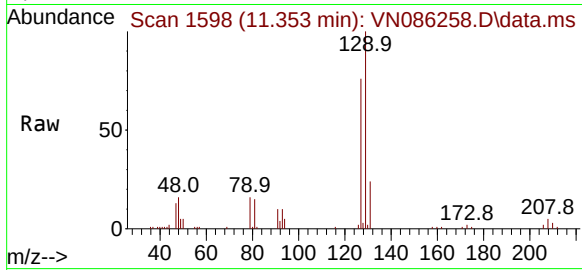
Tgt Ion: 76 Resp: 102866
Ion Ratio Lower Upper
76 100
78 33.1 0.0 64.6





#53
Dibromochloromethane
Concen: 20.125 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

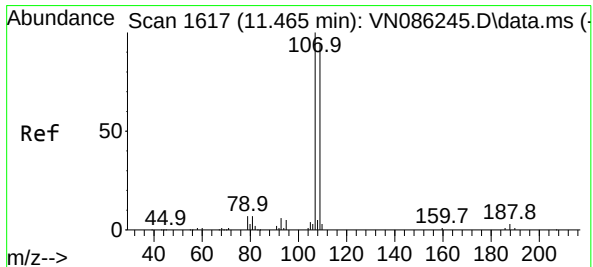
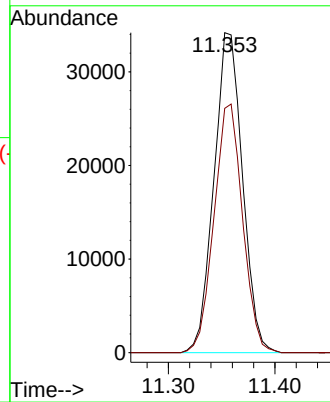
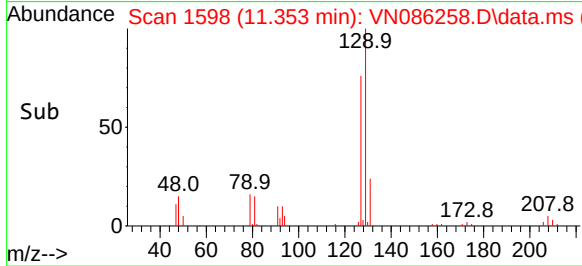
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



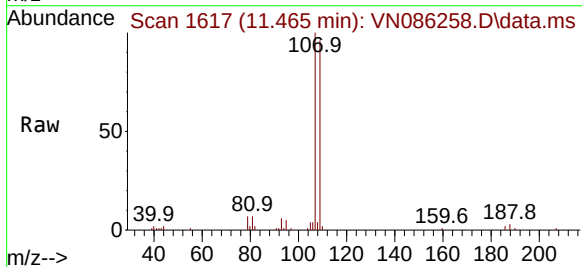
Tgt Ion:129 Resp: 63672
Ion Ratio Lower Upper
129 100
127 77.7 38.5 115.5

Manual Integrations
APPROVED

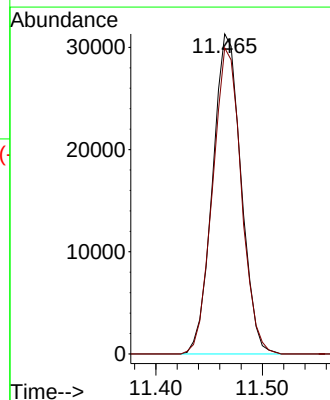
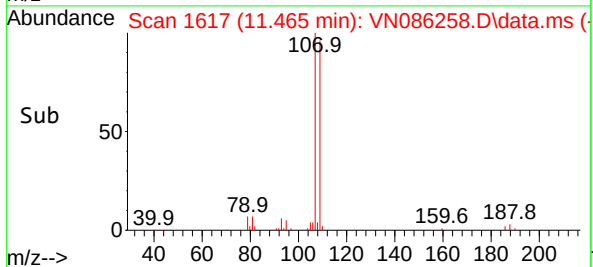
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

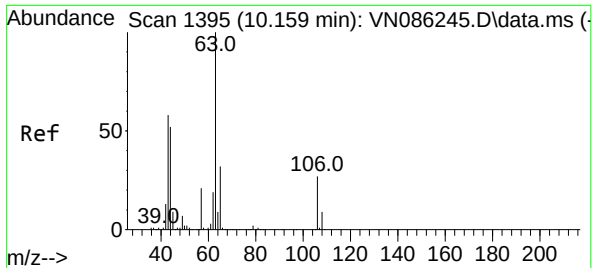


#54
1,2-Dibromoethane
Concen: 19.861 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30



Tgt Ion:107 Resp: 57989
Ion Ratio Lower Upper
107 100
109 96.3 75.2 112.8





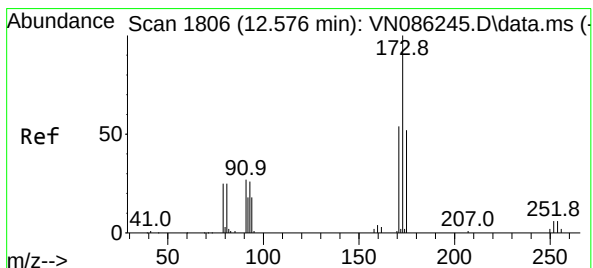
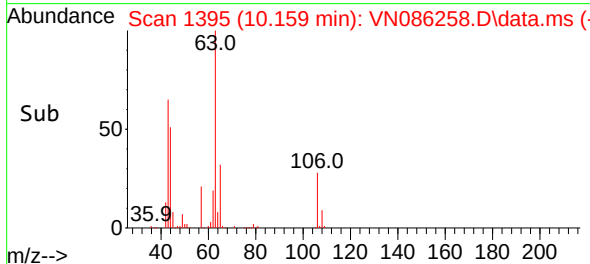
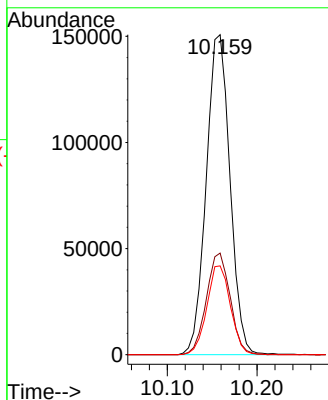
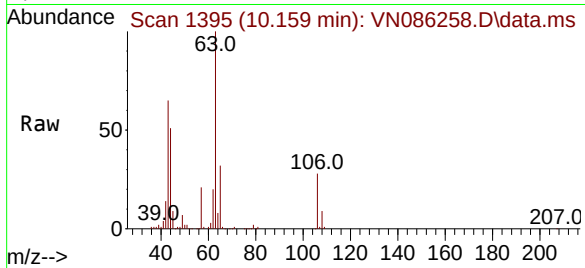
#55
2-Chloroethyl vinyl ether
Concen: 136.634 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01

Tgt Ion: 63 Resp: 27751
Ion Ratio Lower Upper
63 100
65 31.8 25.8 38.8
106 27.6 21.8 32.8

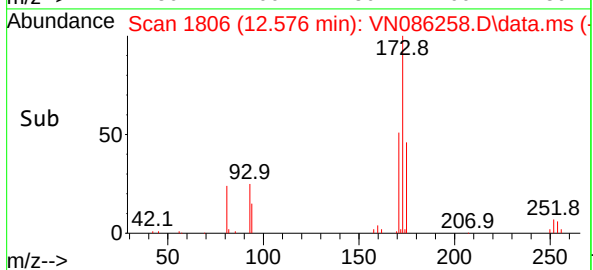
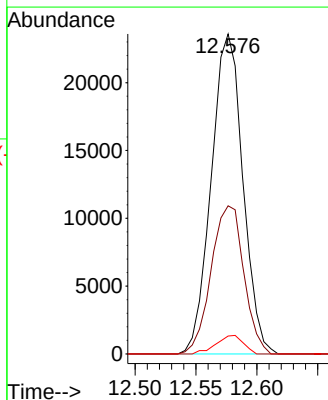
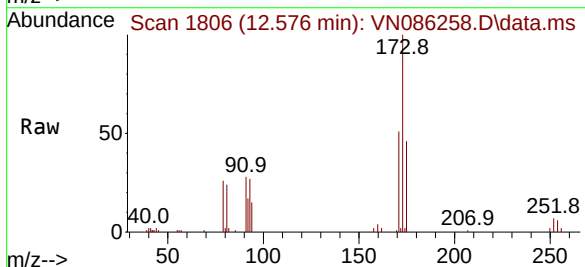
Manual Integrations
APPROVED

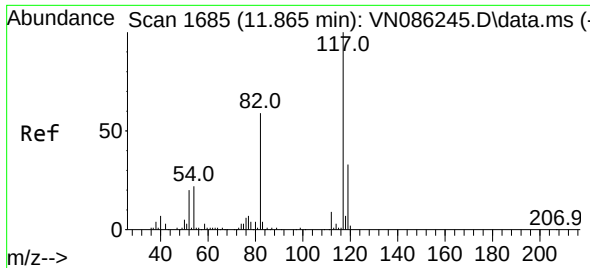
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#56
Bromoform
Concen: 20.582 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

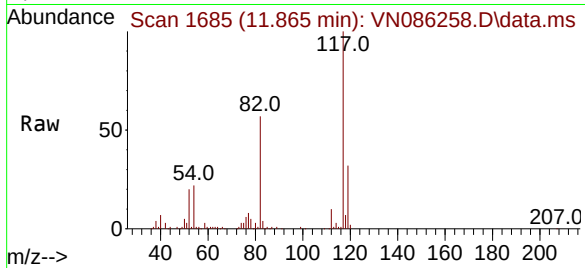
Tgt Ion:173 Resp: 42602
Ion Ratio Lower Upper
173 100
175 47.9 38.2 57.4
254 5.0 4.5 6.7





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

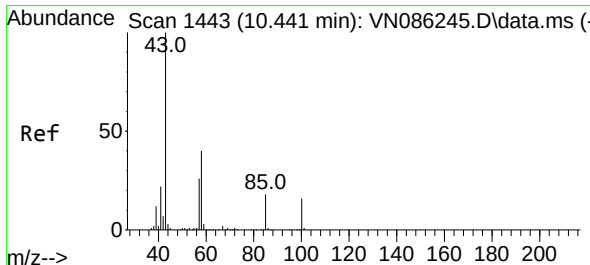
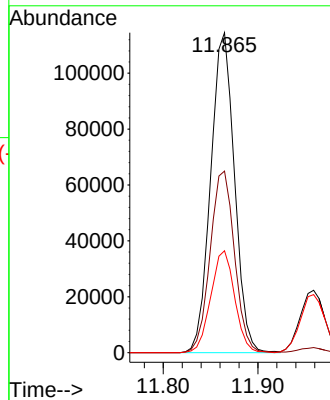
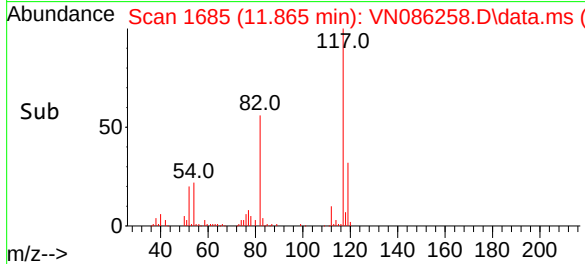
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 117 Resp: 200395
Ion Ratio Lower Upper
117 100
82 58.2 47.3 70.9
119 32.0 25.9 38.9

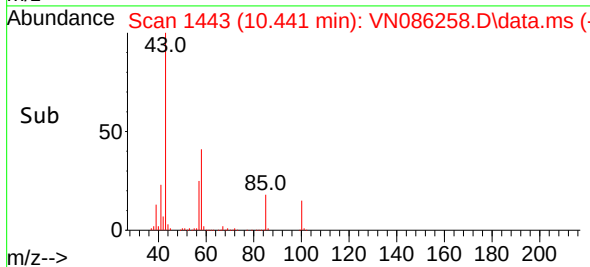
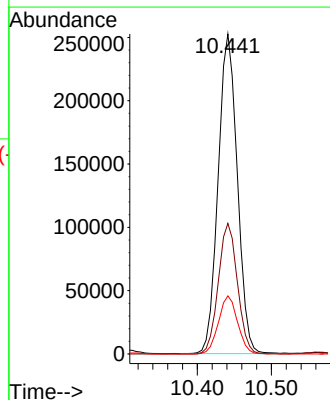
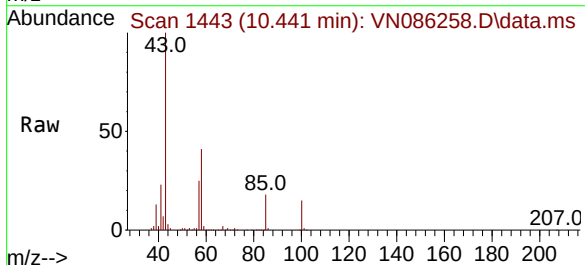
Manual Integrations
APPROVED

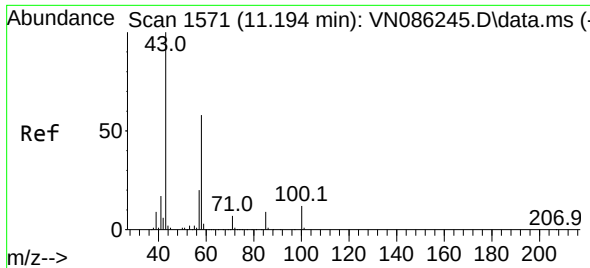
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#58
4-Methyl-2-Pentanone
Concen: 99.716 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

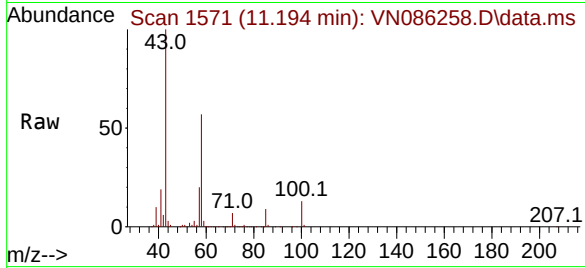
Tgt Ion: 43 Resp: 453475
Ion Ratio Lower Upper
43 100
58 40.8 32.5 48.7
85 18.1 14.4 21.6





#59
2-Hexanone
Concen: 98.039 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

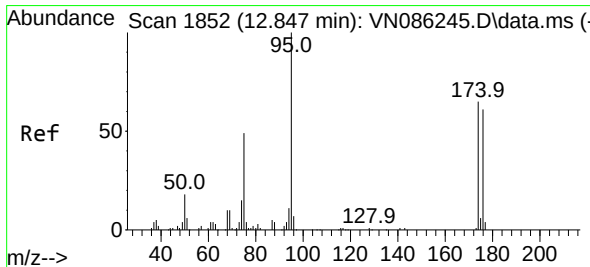
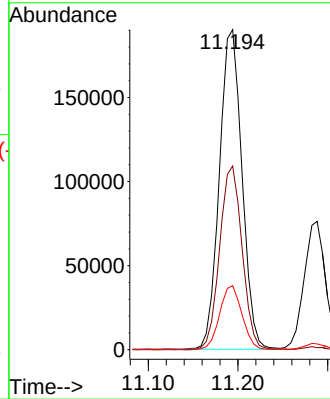
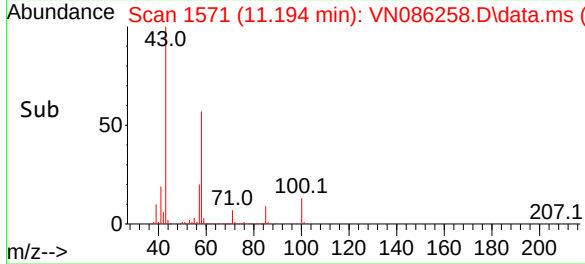
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 43 Resp: 331992
Ion Ratio Lower Upper
43 100
58 57.1 45.3 67.9
57 19.9 15.8 23.6

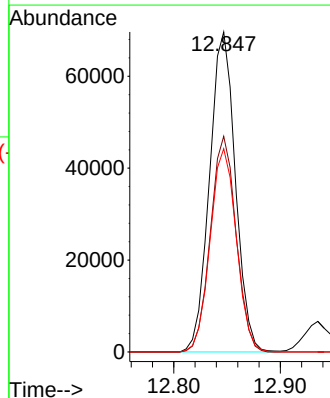
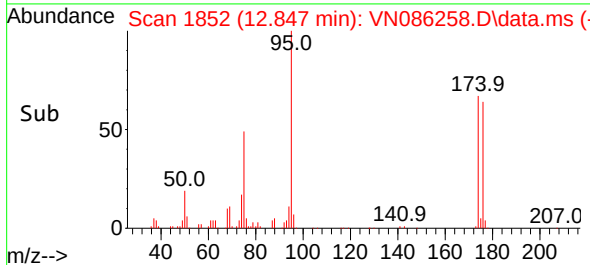
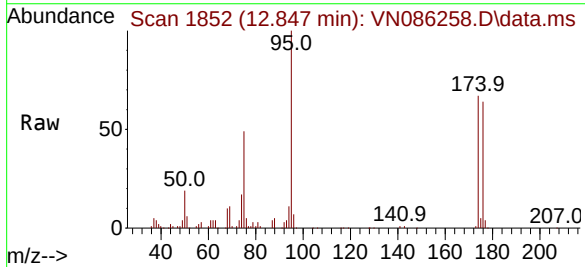
Manual Integrations
APPROVED

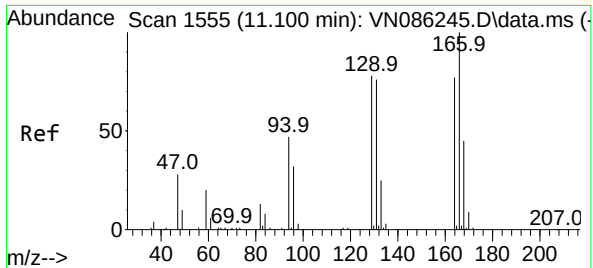
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#60
4-Bromofluorobenzene
Concen: 29.365 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

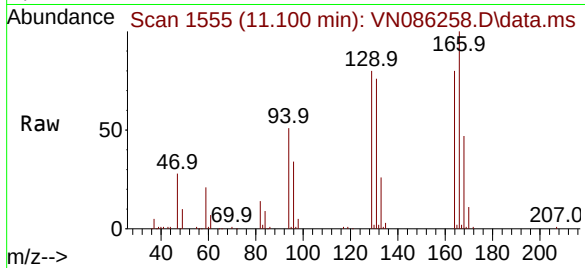
Tgt Ion: 95 Resp: 117162
Ion Ratio Lower Upper
95 100
174 66.9 52.7 79.1
176 64.4 49.8 74.8





#61
Tetrachloroethene
Concen: 20.496 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

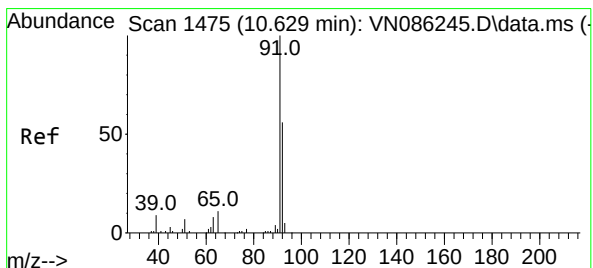
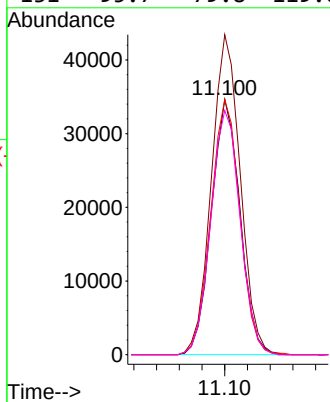
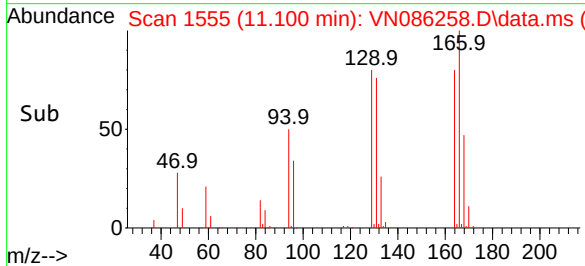
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion:164 Resp: 6065
Ion Ratio Lower Upper
164 100
166 125.4 104.5 156.7
129 99.9 81.7 122.5
131 95.7 79.8 119.6

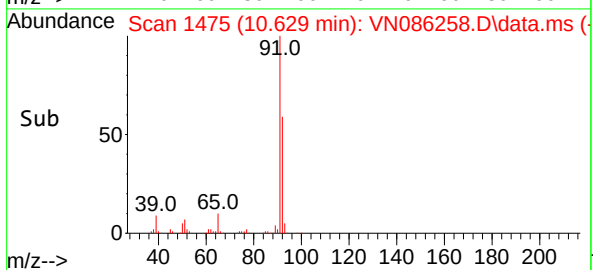
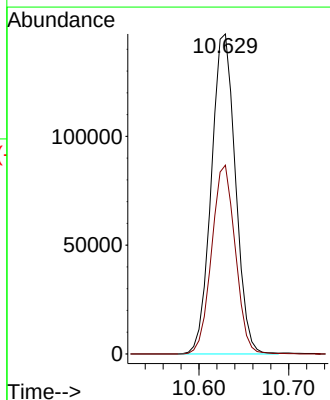
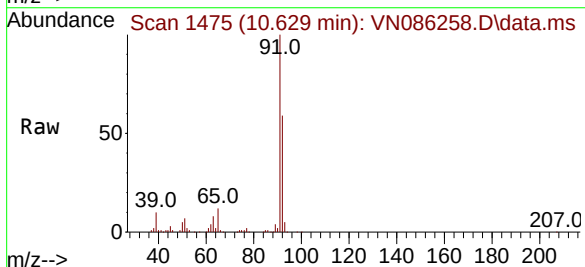
Manual Integrations
APPROVED

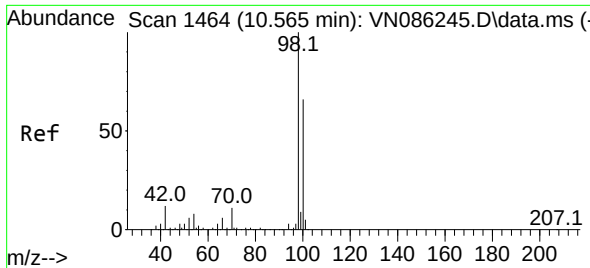
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#62
Toluene
Concen: 20.410 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

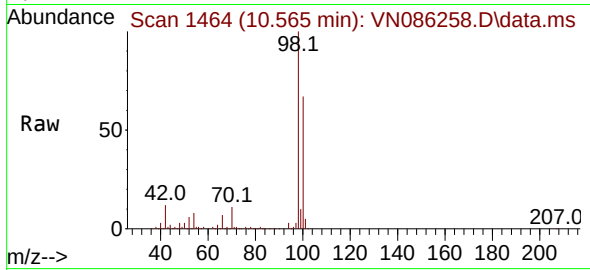
Tgt Ion: 91 Resp: 274337
Ion Ratio Lower Upper
91 100
92 57.9 46.8 70.2





#63
Toluene-d8
Concen: 29.932 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

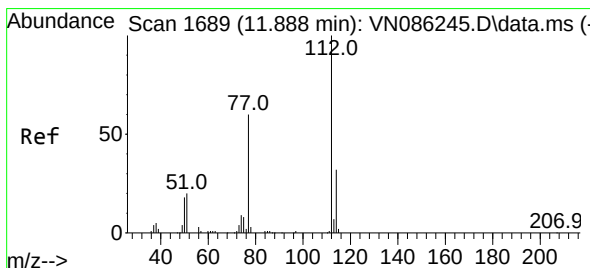
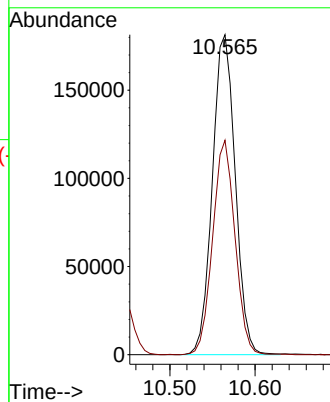
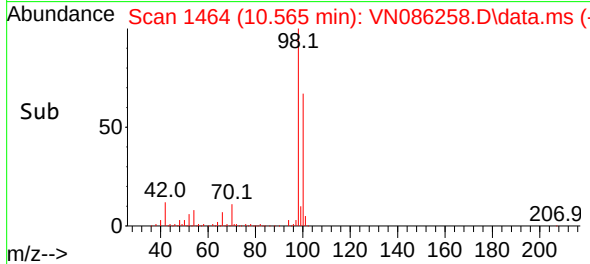
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 98 Resp: 33863
Ion Ratio Lower Upper
98 100
100 65.4 52.3 78.5

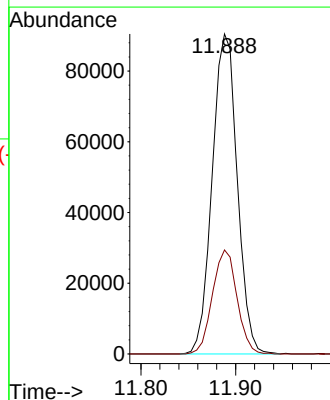
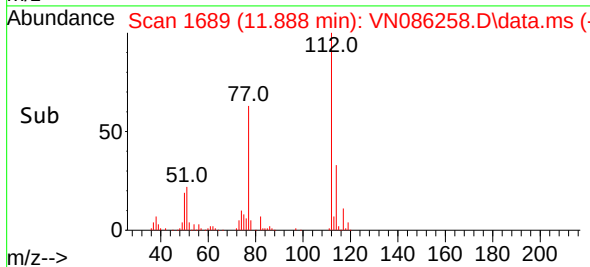
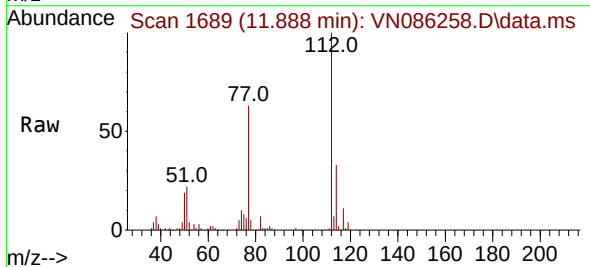
Manual Integrations
APPROVED

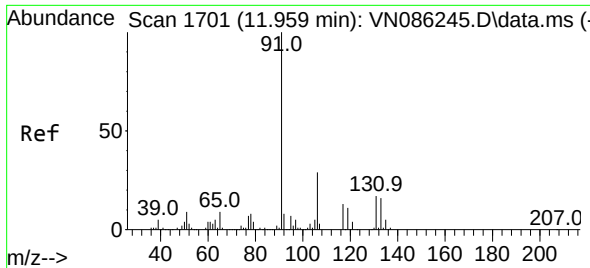
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#64
Chlorobenzene
Concen: 20.253 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion:112 Resp: 166315
Ion Ratio Lower Upper
112 100
114 32.5 25.8 38.6





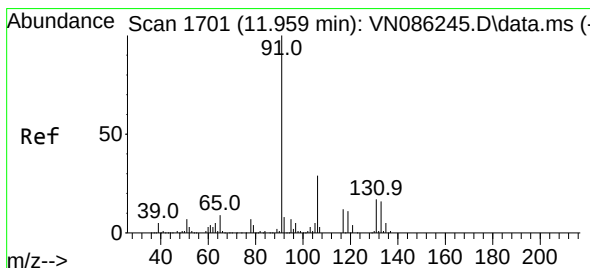
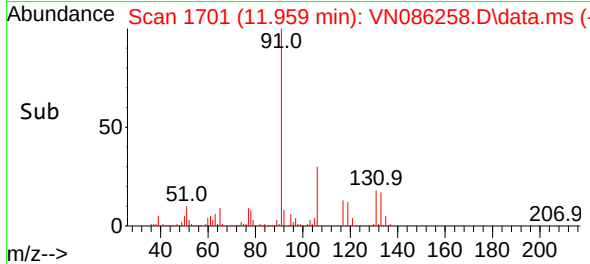
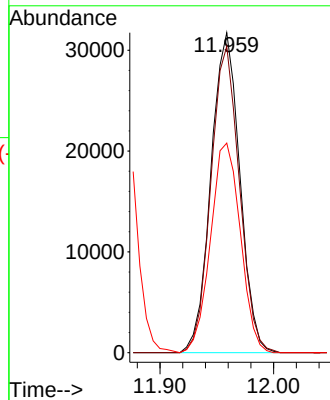
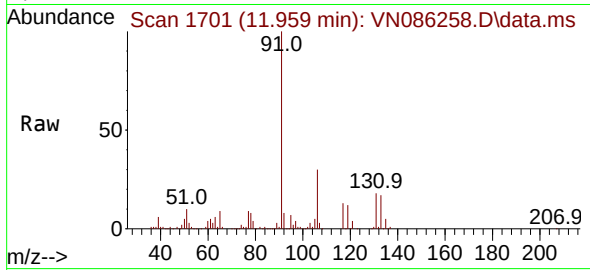
#65
1,1,1,2-Tetrachloroethane
Concen: 20.697 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01

Tgt Ion:131 Resp: 5609
Ion Ratio Lower Upper
131 100
133 94.4 0.0 190.4
119 67.7 0.0 135.6

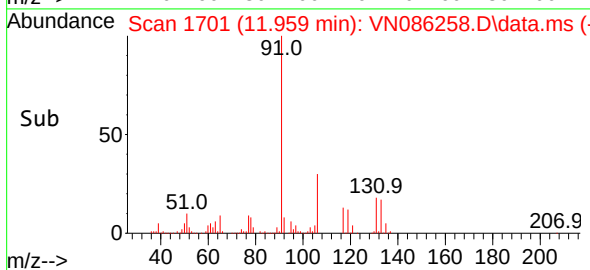
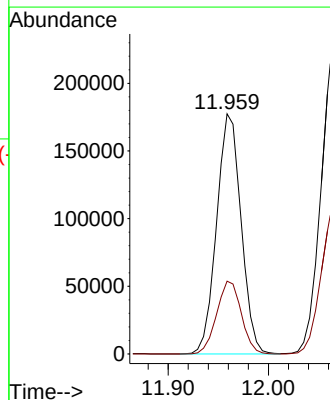
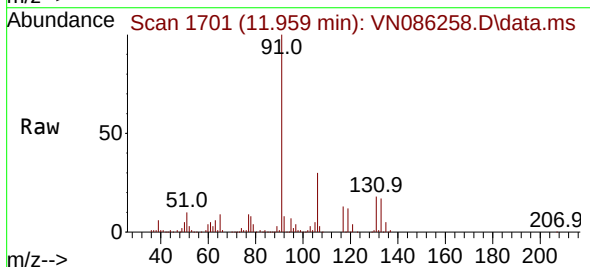
Manual Integrations
APPROVED

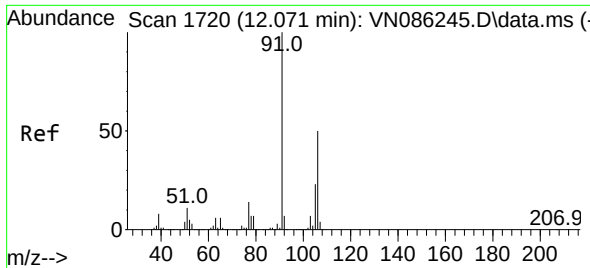
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#66
Ethyl Benzene
Concen: 20.192 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

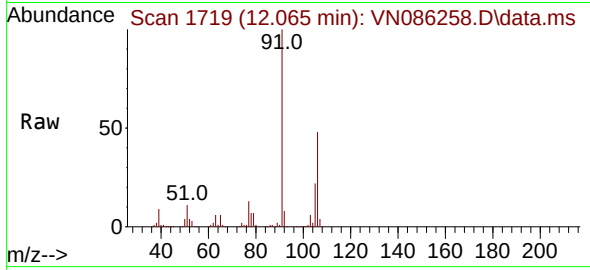
Tgt Ion: 91 Resp: 300996
Ion Ratio Lower Upper
91 100
106 30.3 23.4 35.0





#67
m/p-Xylenes
Concen: 40.859 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

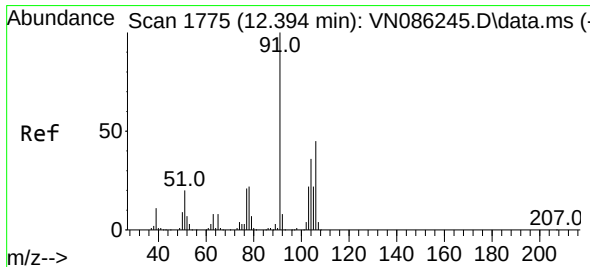
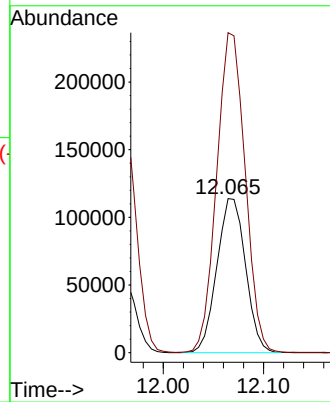
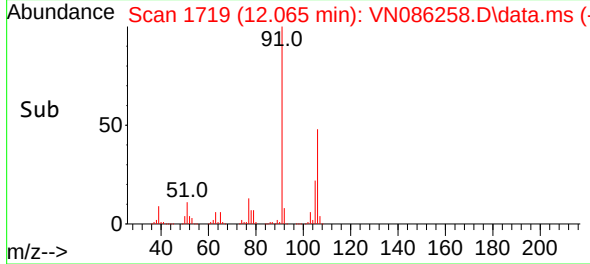
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion:106 Resp: 226470
Ion Ratio Lower Upper
106 100
91 206.0 164.5 246.7

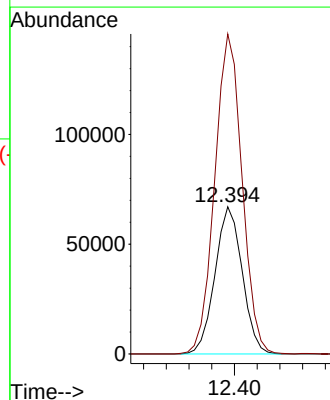
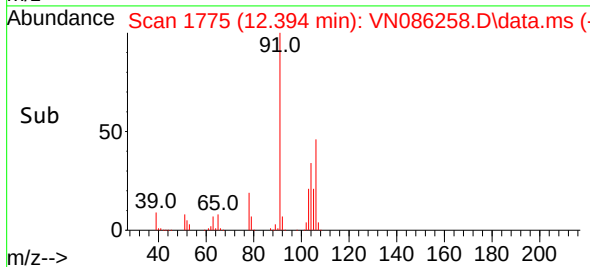
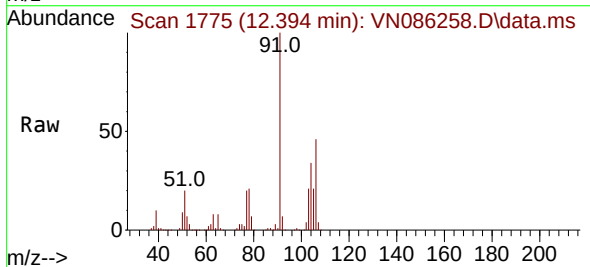
Manual Integrations
APPROVED

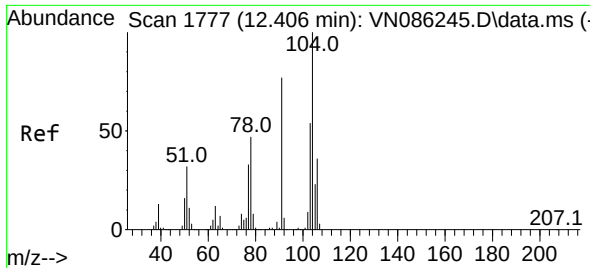
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#68
o-Xylene
Concen: 20.480 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

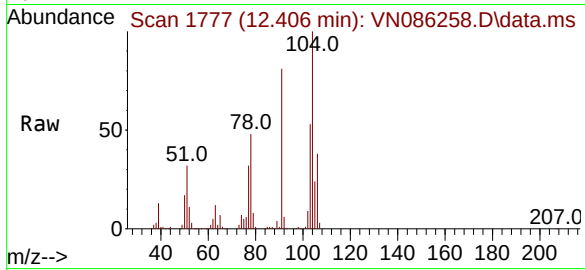
Tgt Ion:106 Resp: 111656
Ion Ratio Lower Upper
106 100
91 218.0 109.8 329.4





#69
Styrene
Concen: 20.354 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

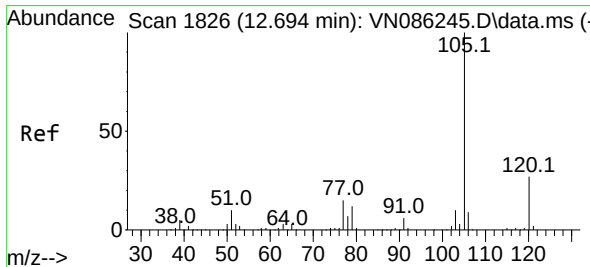
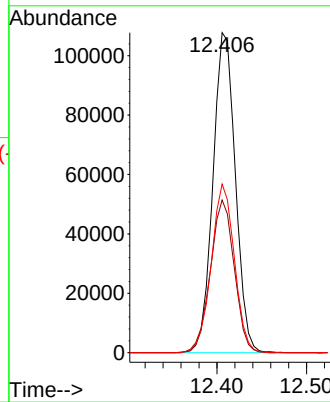
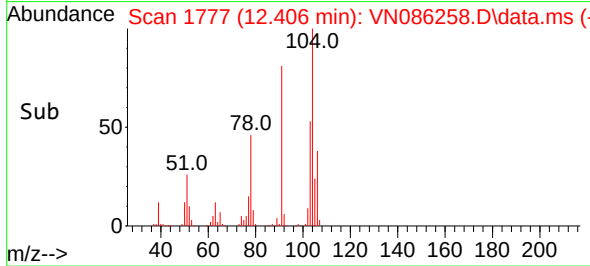
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion:104 Resp: 18715
Ion Ratio Lower Upper
104 100
78 50.7 41.4 62.0
103 54.1 44.2 66.4

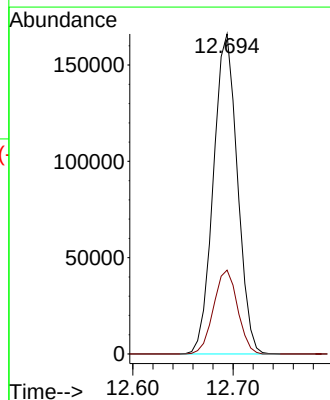
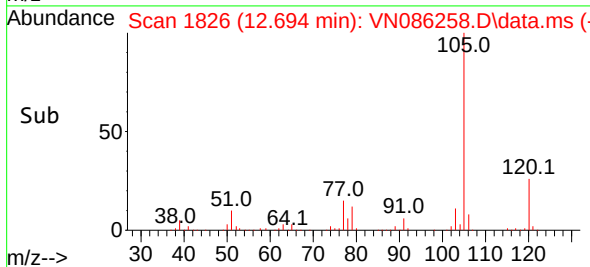
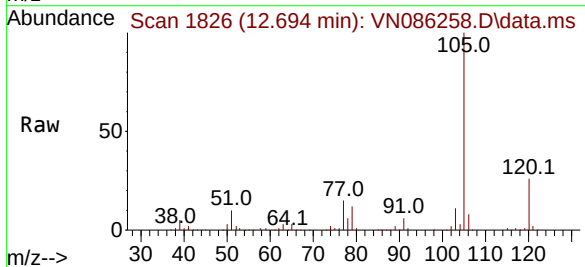
Manual Integrations
APPROVED

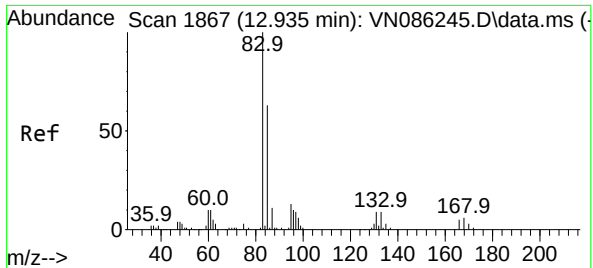
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#70
Isopropylbenzene
Concen: 20.566 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion:105 Resp: 276457
Ion Ratio Lower Upper
105 100
120 26.1 18.3 34.1





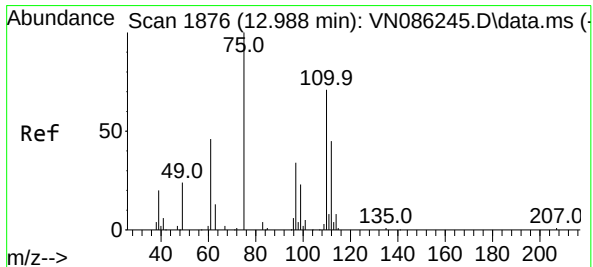
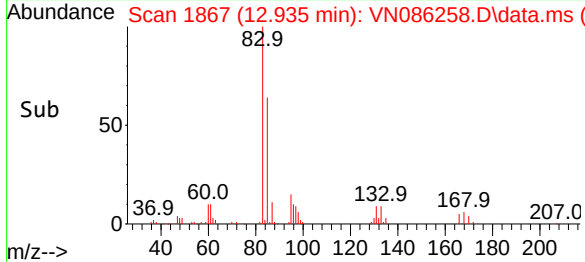
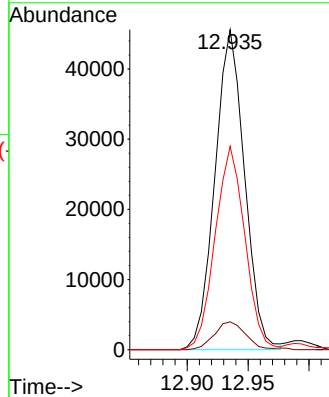
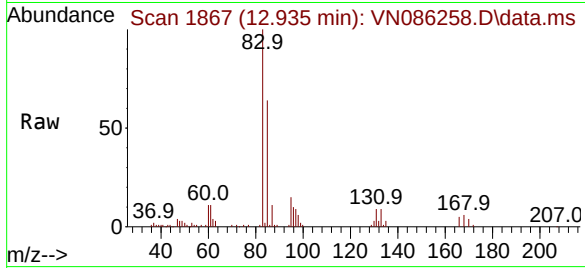
#71
1,1,2,2-Tetrachloroethane
Concen: 20.191 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01

Tgt Ion: 83 Resp: 7725
Ion Ratio Lower Upper
83 100
131 9.2 4.8 14.3
85 63.7 32.3 96.8

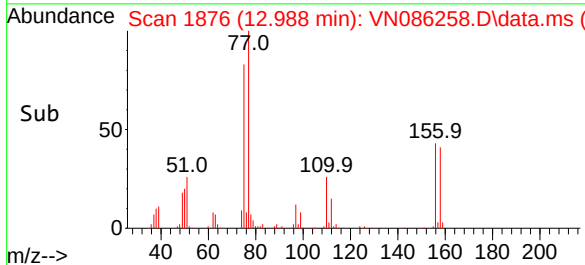
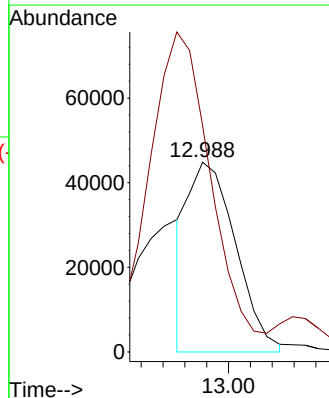
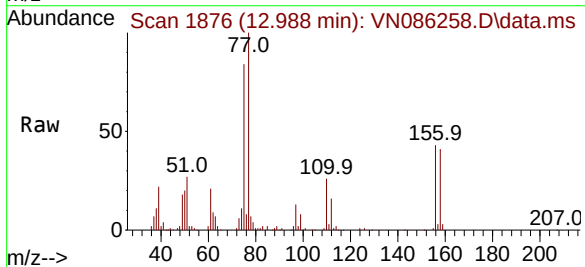
Manual Integrations
APPROVED

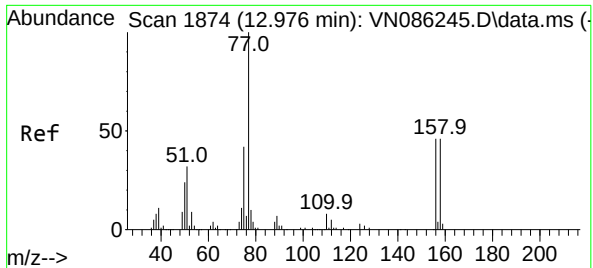
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#72
1,2,3-Trichloropropane
Concen: 17.111 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion: 75 Resp: 68150
Ion Ratio Lower Upper
75 100
77 222.4 0.0 380.0





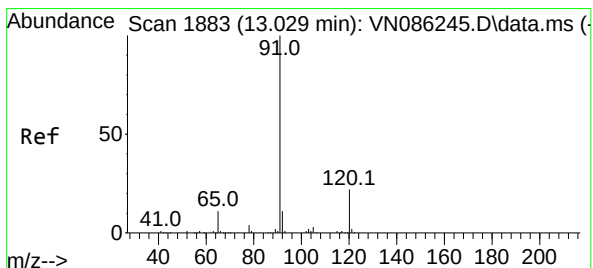
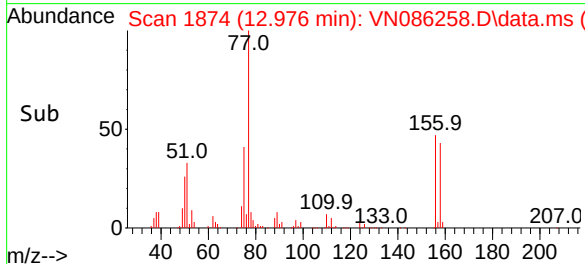
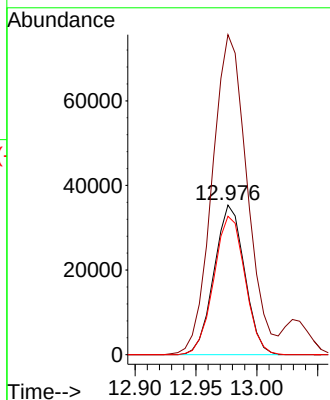
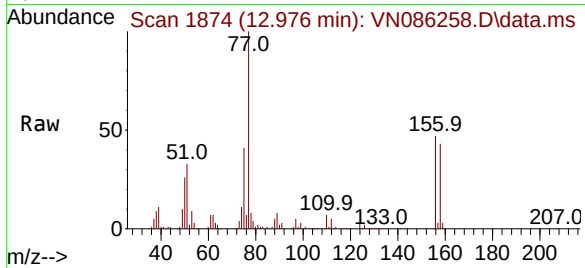
#73
Bromobenzene
Concen: 20.653 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01

Tgt Ion:156 Resp: 61500
Ion Ratio Lower Upper
156 100
77 246.4 0.0 505.2
158 94.7 0.0 195.0

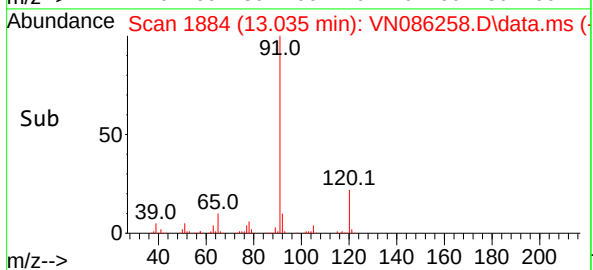
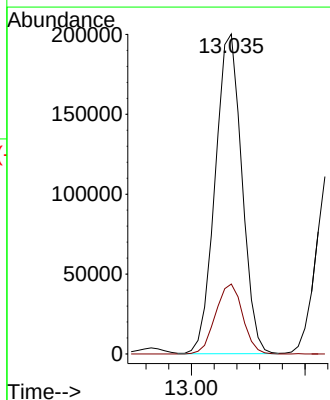
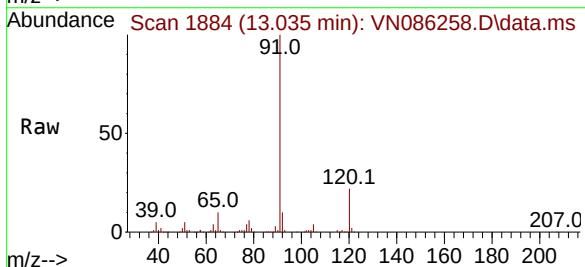
Manual Integrations
APPROVED

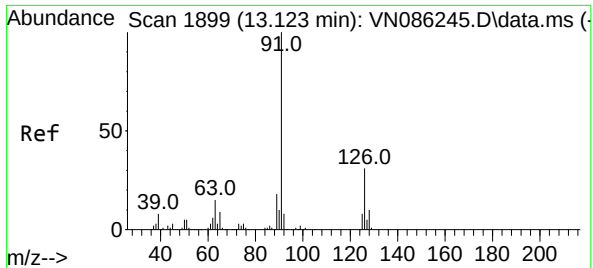
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#74
n-propylbenzene
Concen: 20.629 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion: 91 Resp: 327436
Ion Ratio Lower Upper
91 100
120 22.1 0.0 44.0





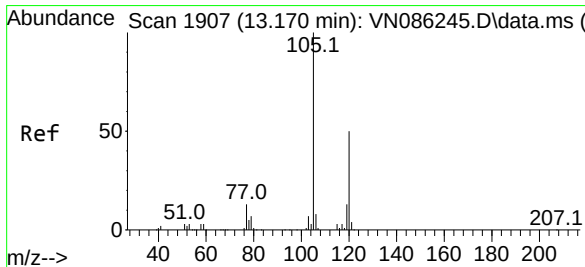
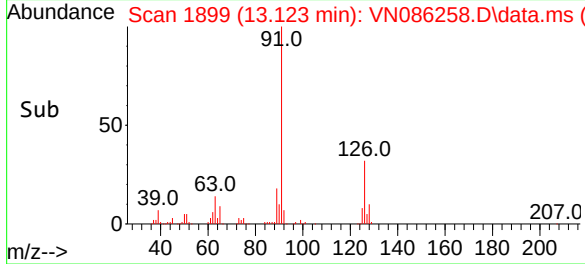
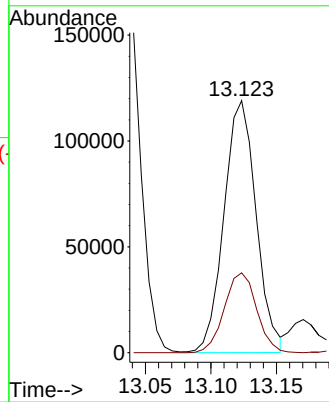
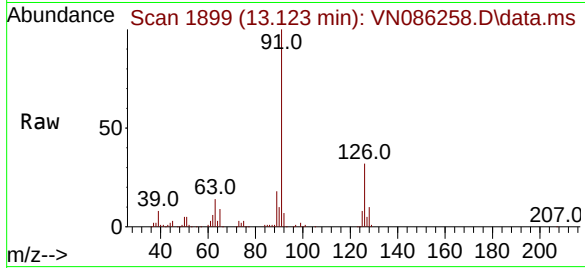
#75
2-Chlorotoluene
Concen: 20.376 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01

Tgt Ion: 91 Resp: 203289
Ion Ratio Lower Upper
91 100
126 31.7 0.0 63.4

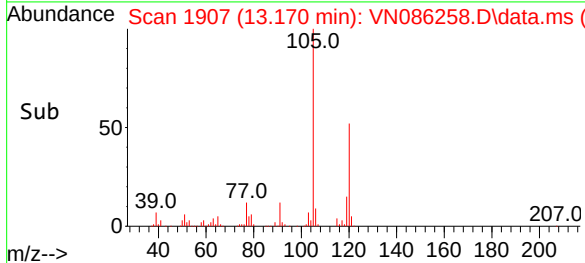
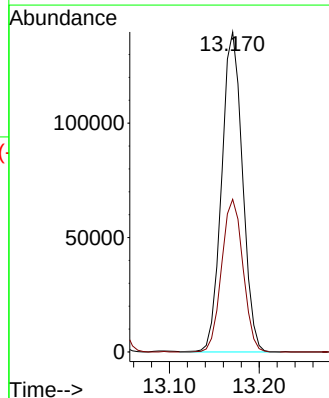
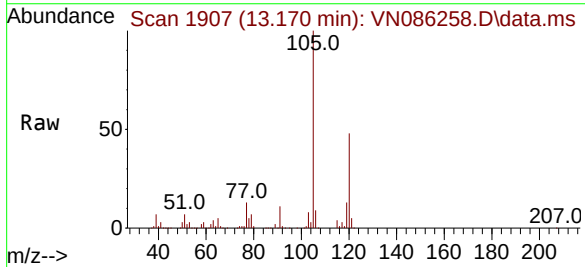
Manual Integrations
APPROVED

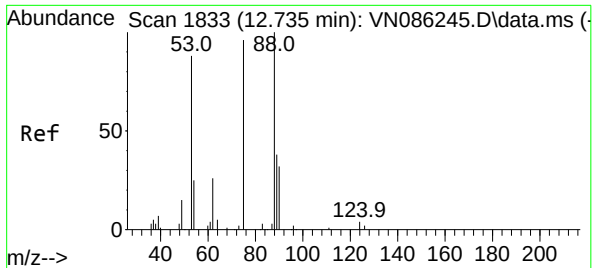
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#76
1,3,5-Trimethylbenzene
Concen: 20.416 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

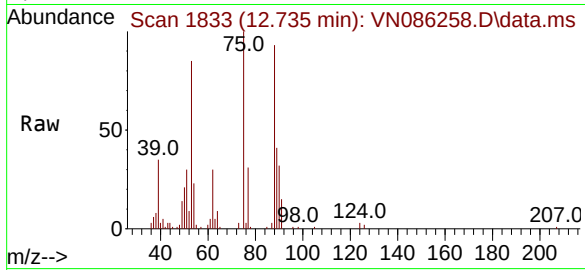
Tgt Ion:105 Resp: 225441
Ion Ratio Lower Upper
105 100
120 48.8 0.0 98.0





#77
t-1,4-Dichloro-2-butene
Concen: 19.550 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

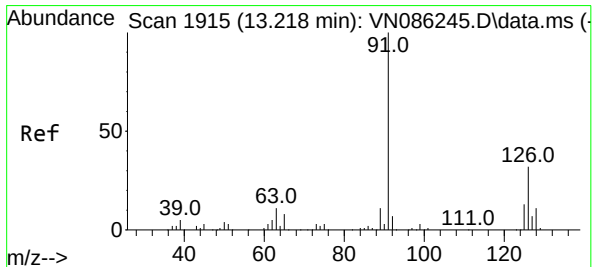
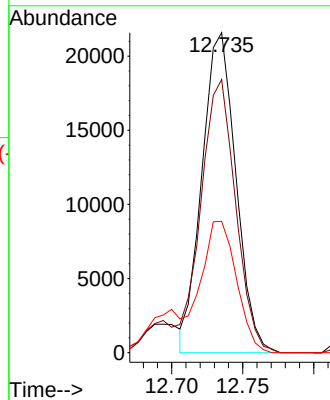
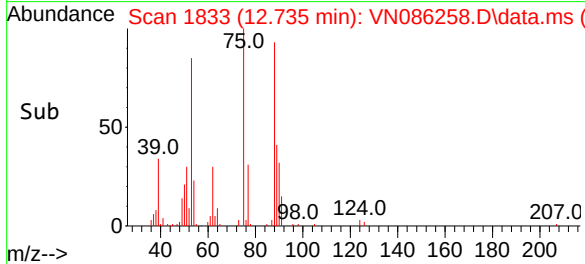
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion: 75 Resp: 35902
Ion Ratio Lower Upper
75 100
53 85.4 46.4 139.2
89 41.0 22.5 67.5

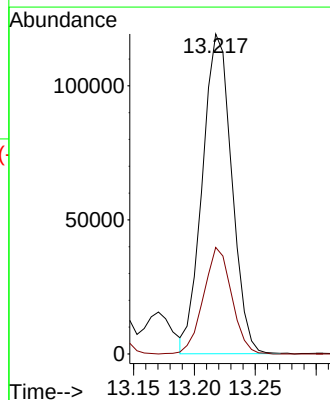
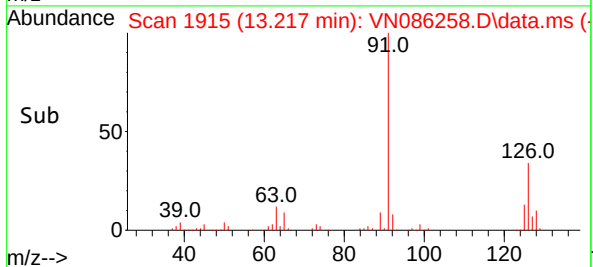
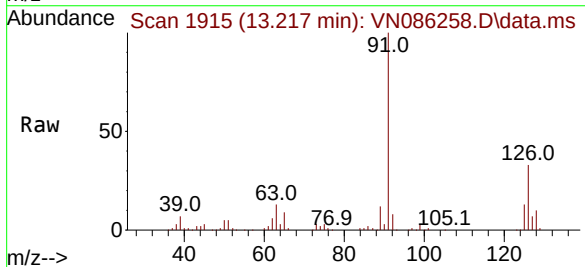
Manual Integrations
APPROVED

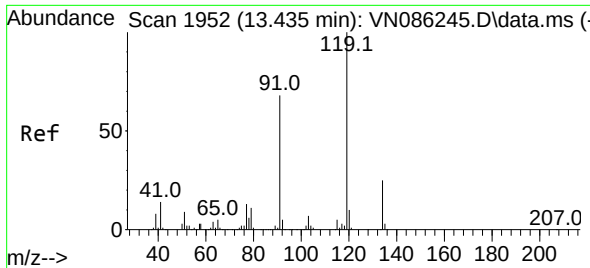
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#78
4-Chlorotoluene
Concen: 20.086 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

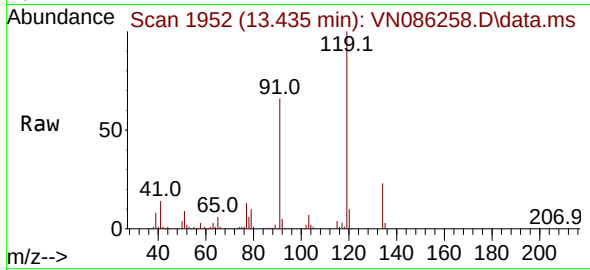
Tgt Ion: 91 Resp: 200138
Ion Ratio Lower Upper
91 100
126 32.0 0.0 63.2





#79
tert-butylbenzene
Concen: 20.985 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

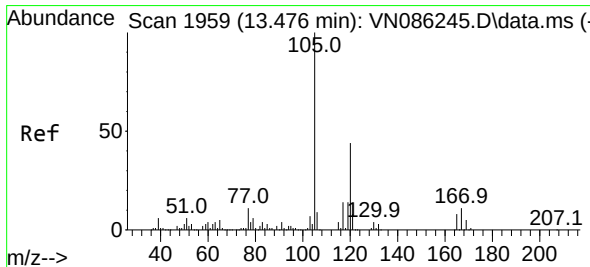
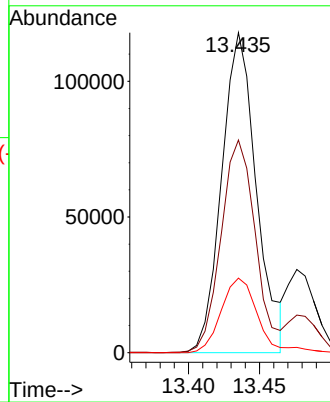
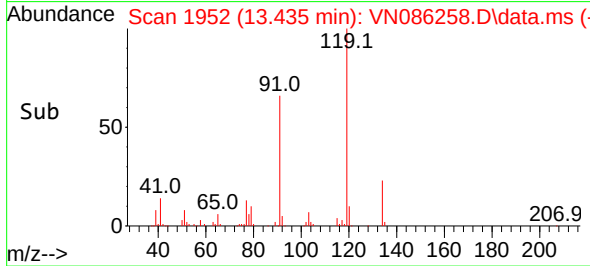
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



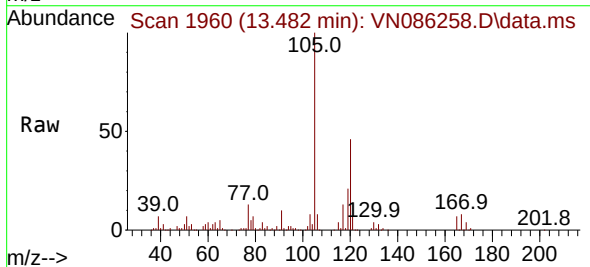
Tgt Ion:119 Resp: 200510
Ion Ratio Lower Upper
119 100
91 66.3 0.0 136.6
134 23.8 0.0 49.4

Manual Integrations
APPROVED

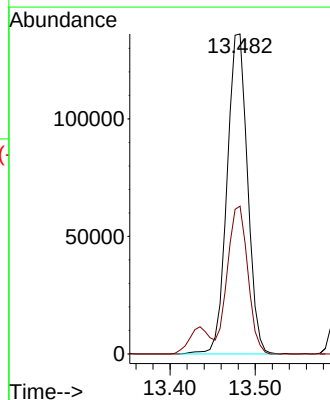
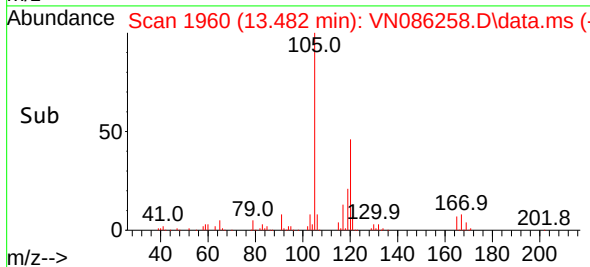
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

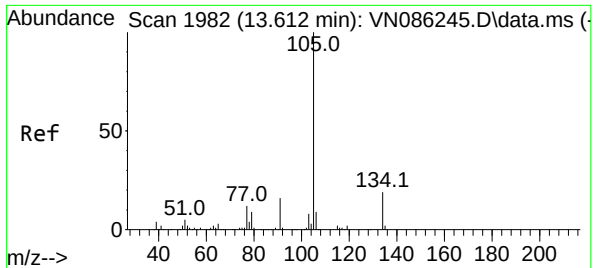


#80
1,2,4-Trimethylbenzene
Concen: 20.268 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30



Tgt Ion:105 Resp: 226948
Ion Ratio Lower Upper
105 100
120 45.9 0.0 91.0





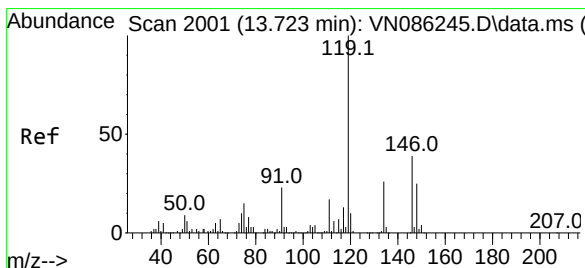
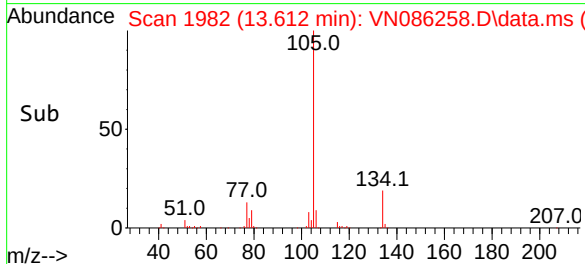
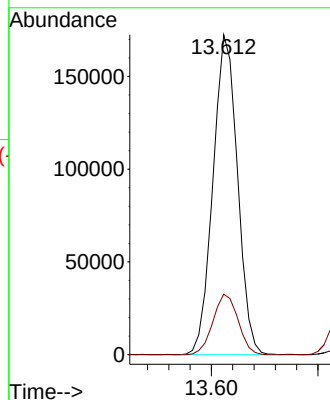
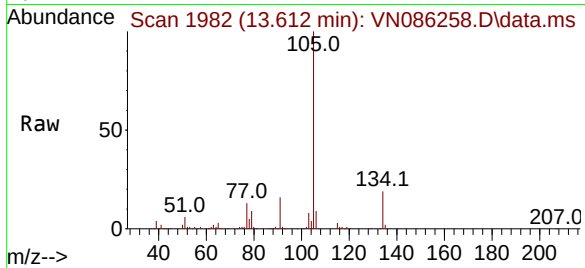
#81
 sec-Butylbenzene
 Concen: 20.689 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. -0.000 min
 Lab File: VN086258.D
 Acq: 14 Apr 2025 10:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBS01

Tgt Ion:105 Resp: 275740
 Ion Ratio Lower Upper
 105 100
 134 19.3 0.0 38.6

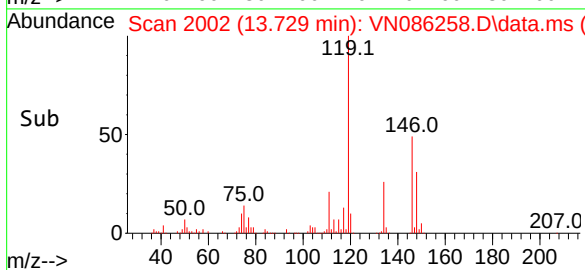
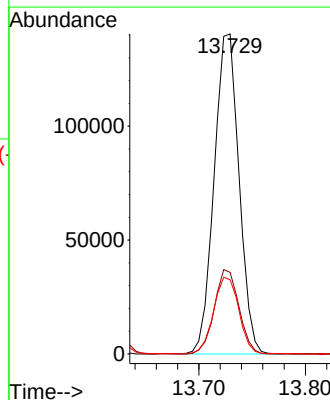
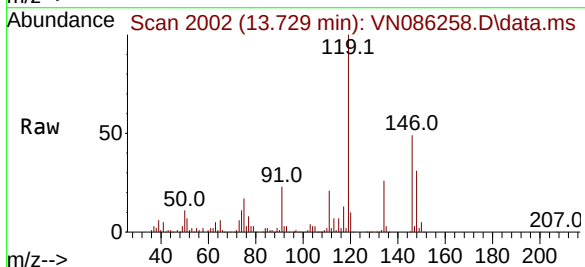
Manual Integrations
 APPROVED

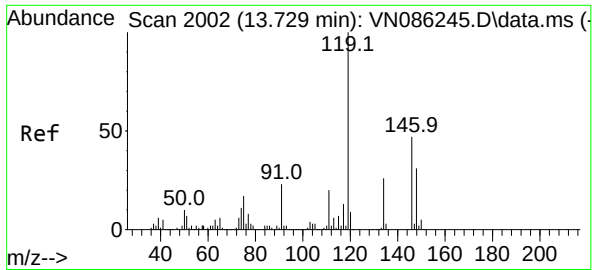
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025



#82
 p-Isopropyltoluene
 Concen: 20.517 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN086258.D
 Acq: 14 Apr 2025 10:30

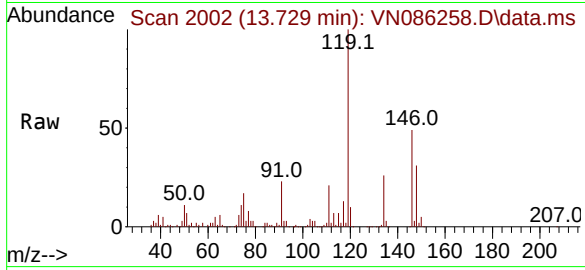
Tgt Ion:119 Resp: 228119
 Ion Ratio Lower Upper
 119 100
 134 26.0 0.0 51.6
 91 24.3 0.0 48.2





#83
1,3-Dichlorobenzene
Concen: 20.526 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

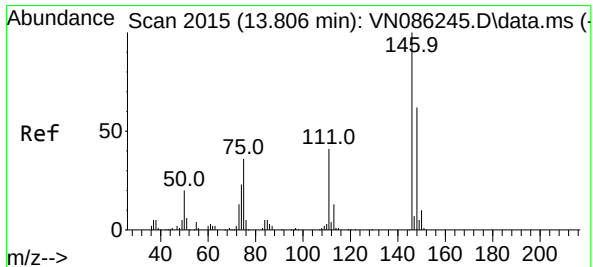
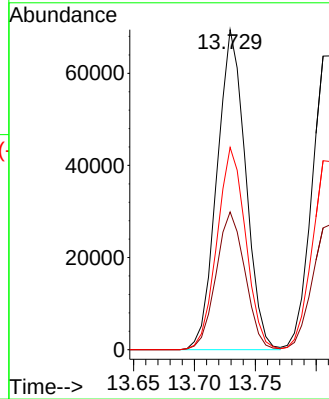
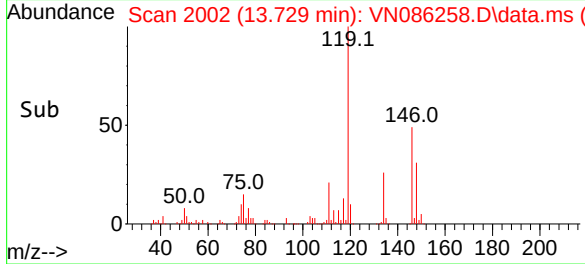
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion:146 Resp: 113608
Ion Ratio Lower Upper
146 100
111 43.7 21.7 65.1
148 63.3 32.3 96.8

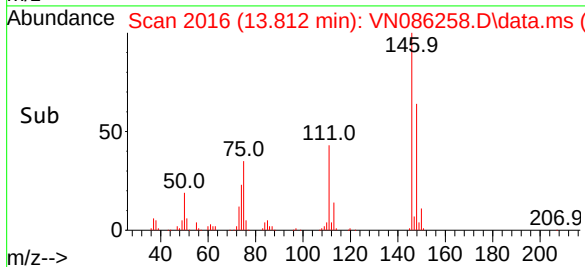
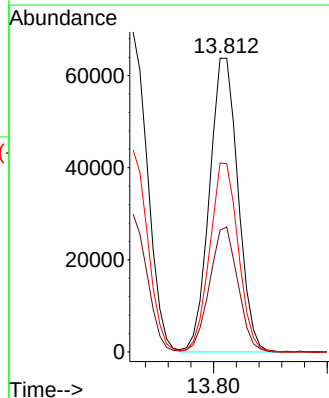
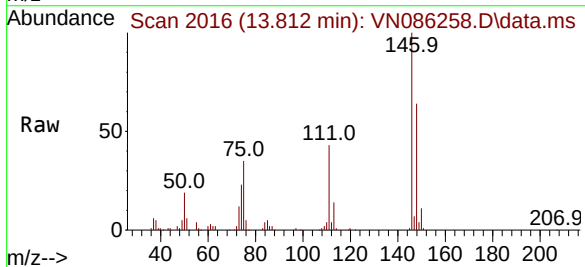
Manual Integrations
APPROVED

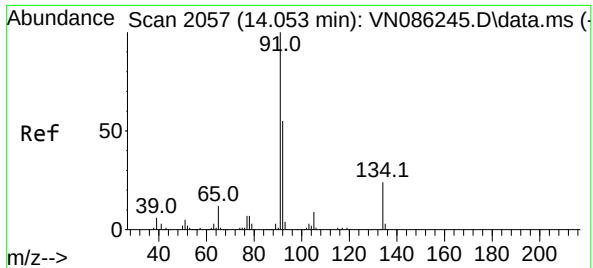
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#84
1,4-Dichlorobenzene
Concen: 20.084 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.006 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion:146 Resp: 111516
Ion Ratio Lower Upper
146 100
111 42.0 20.8 62.4
148 64.1 31.9 95.5





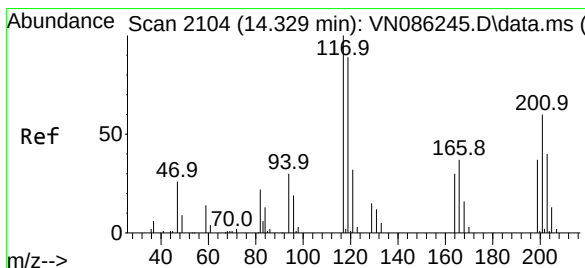
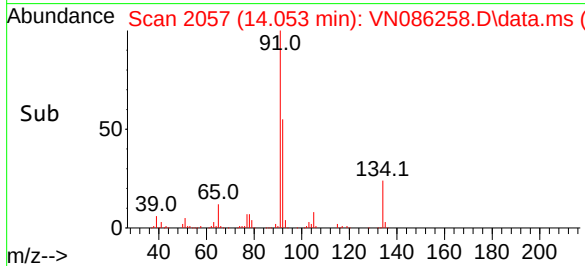
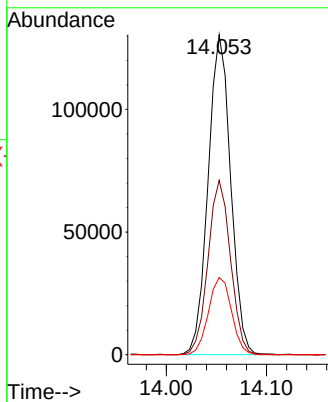
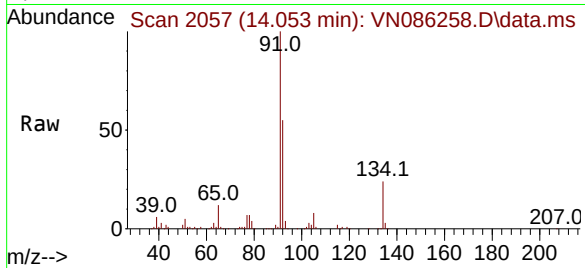
#85
n-Butylbenzene
Concen: 20.342 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01

Tgt Ion: 91 Resp: 20403
Ion Ratio Lower Upper
91 100
92 54.4 0.0 109.4
134 24.7 0.0 48.2

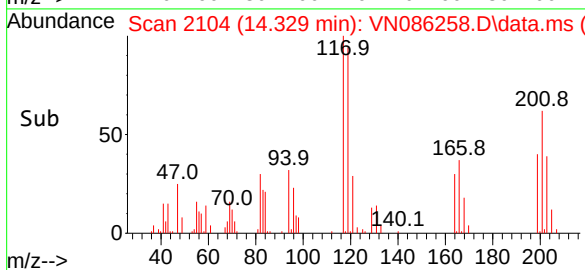
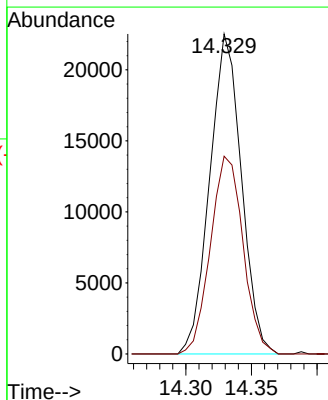
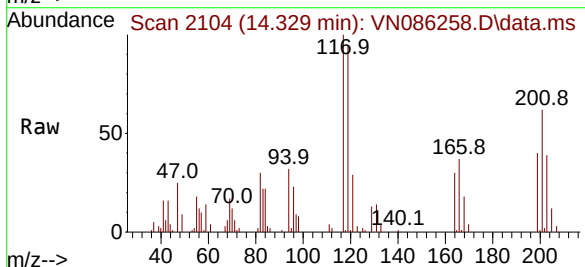
Manual Integrations
APPROVED

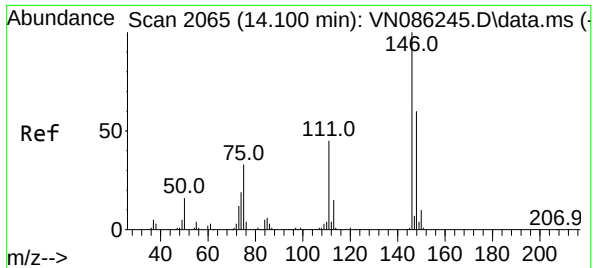
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#86
Hexachloroethane
Concen: 20.168 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion:117 Resp: 37827
Ion Ratio Lower Upper
117 100
201 63.6 30.9 92.8





#87

1,2-Dichlorobenzene

Concen: 20.173 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.006 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBS01

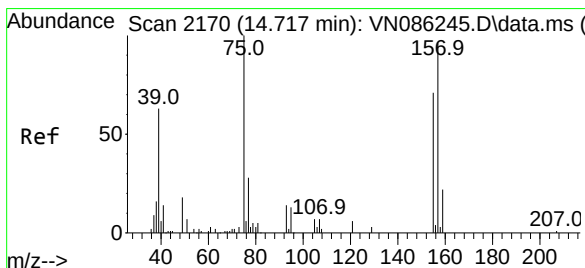
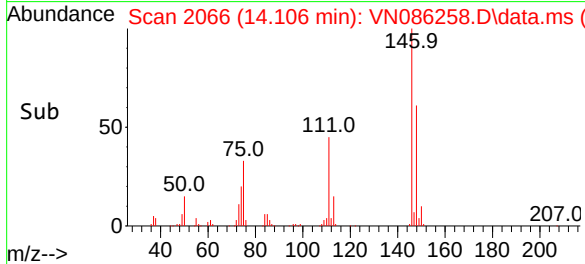
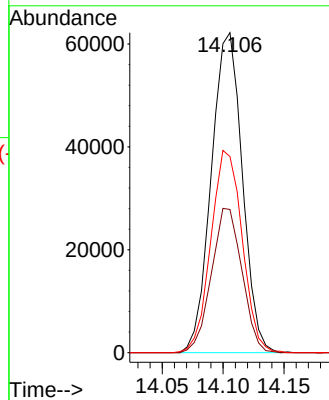
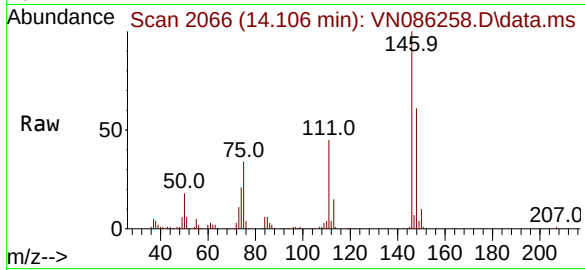
Tgt Ion:	146	Resp:	11024
Ion Ratio	Lower	Upper	
146	100		
111	44.5	22.7	68.0
148	64.0	31.8	95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 19.353 ug/l

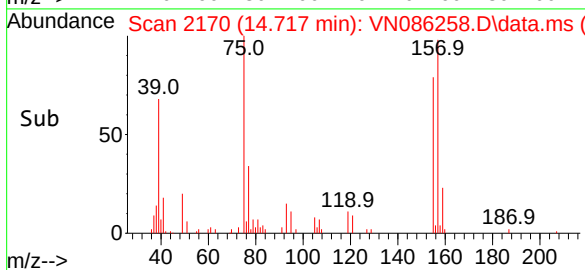
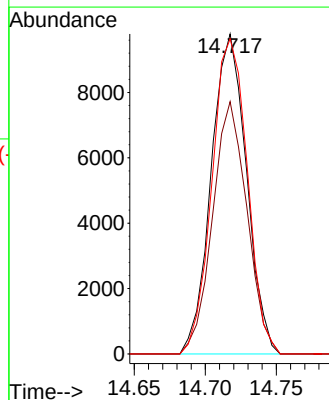
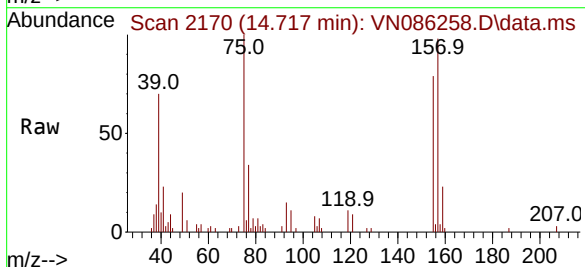
RT: 14.717 min Scan# 2170

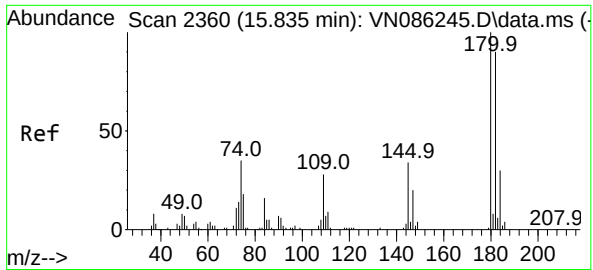
Delta R.T. -0.000 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

Tgt Ion:	75	Resp:	16866
Ion Ratio	Lower	Upper	
75	100		
155	77.1	60.3	90.5
157	98.8	79.0	118.4





#89

1,2,4-Trichlorobenzene

Concen: 19.929 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.000 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBS01

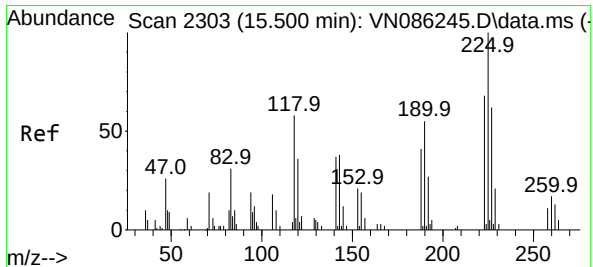
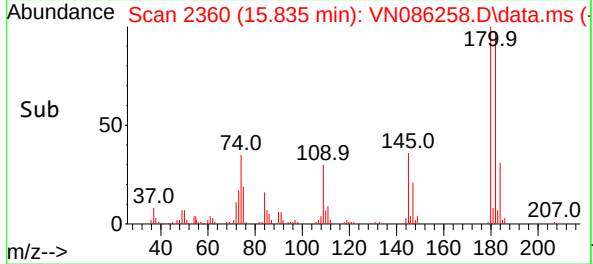
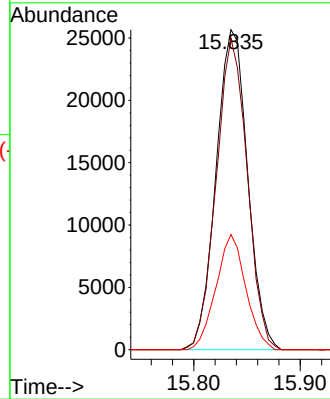
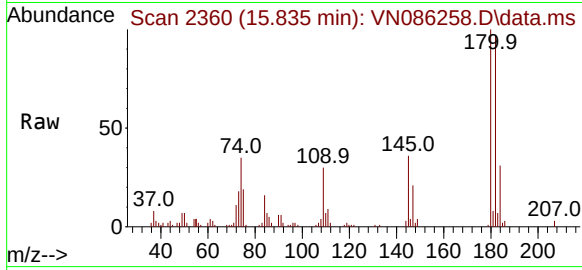
Tgt Ion:	180	Resp:	5299
Ion Ratio	Lower	Upper	
180	100		
182	94.9	75.1	112.7
145	33.9	27.1	40.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#90

Hexachlorobutadiene

Concen: 18.221 ug/l

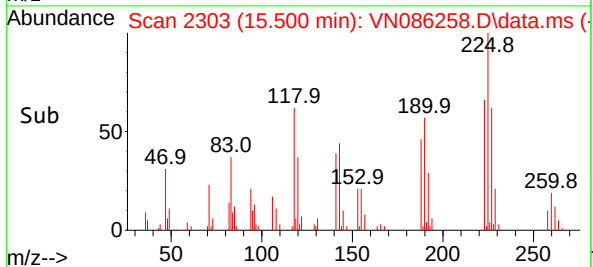
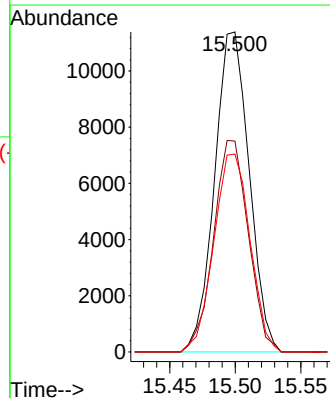
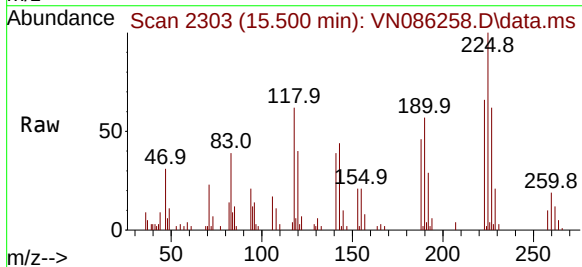
RT: 15.500 min Scan# 2303

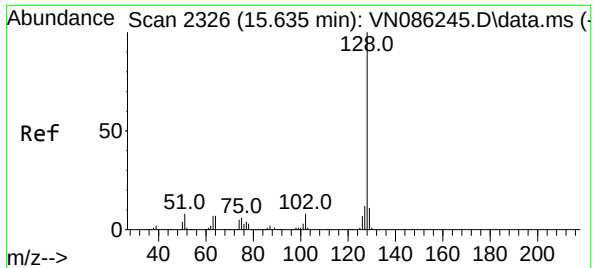
Delta R.T. -0.000 min

Lab File: VN086258.D

Acq: 14 Apr 2025 10:30

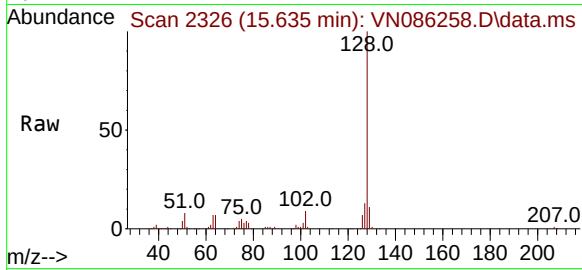
Tgt Ion:	225	Resp:	20919
Ion Ratio	Lower	Upper	
225	100		
223	66.2	0.0	130.0
227	64.6	0.0	123.2





#91
Naphthalene
Concen: 18.610 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

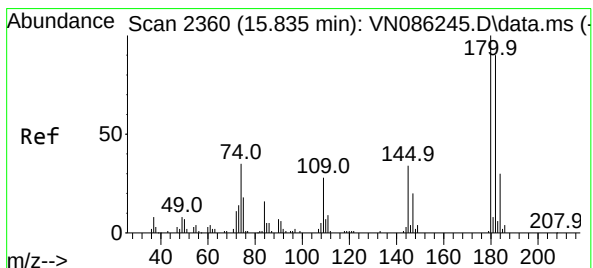
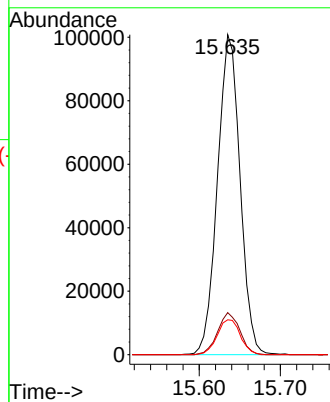
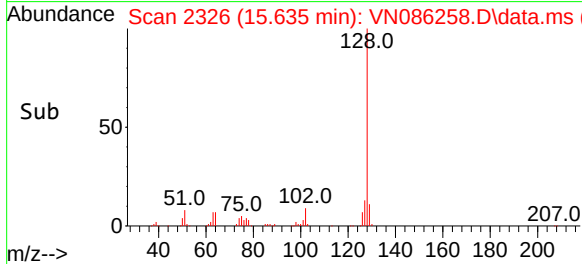
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBS01



Tgt Ion:128 Resp: 19510
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.2
129 11.2 8.8 13.2

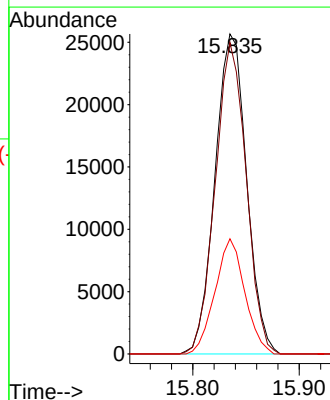
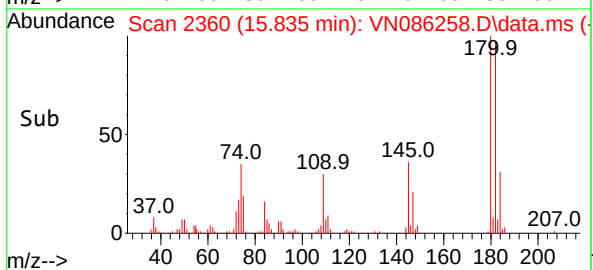
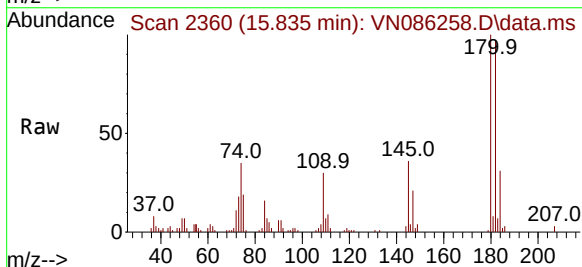
Manual Integrations
APPROVED

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



#92
1,2,3-Trichlorobenzene
Concen: 19.929 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086258.D
Acq: 14 Apr 2025 10:30

Tgt Ion:180 Resp: 52993
Ion Ratio Lower Upper
180 100
182 94.9 0.0 187.8
145 33.9 0.0 67.8



Report of Analysis

Client:	Tully Environmental, Inc	Date Collected:	
Project:	Transfer Station-SPDES	Date Received:	
Client Sample ID:	VN0414WBSD01	SDG No.:	Q1804
Lab Sample ID:	VN0414WBSD01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086259.D	1		04/14/25 11:03	VN041425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	20.0		0.45	5.00	ug/L
108-88-3	Toluene	20.1		0.46	5.00	ug/L
100-41-4	Ethyl Benzene	20.0		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	40.7		1.30	10.0	ug/L
95-47-6	o-Xylene	20.7		0.67	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.5		91 - 110	98%	SPK: 30
2037-26-5	Toluene-d8	29.9		91 - 112	100%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.6		63 - 112	99%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	36100	7.818			
540-36-3	1,4-Difluorobenzene	212000	9.1			
3114-55-4	Chlorobenzene-d5	189000	11.865			

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\VN041425\
 Data File : VN086259.D
 Acq On : 14 Apr 2025 11:03
 Operator : JC\MD
 Sample : VN0414WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Apr 15 03:05:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	36062	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	212146	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	188770	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	103894	29.537	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.467%		
60) 4-Bromofluorobenzene	12.847	95	111425	29.647	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.833%		
63) Toluene-d8	10.565	98	318483	29.884	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.600%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	54070	18.713	ug/l	98
3) Chloromethane	2.359	50	71999	18.029	ug/l	100
4) Vinyl Chloride	2.512	62	69656	18.312	ug/l	95
5) Bromomethane	2.959	94	34406	18.133	ug/l	96
6) Chloroethane	3.124	64	44882	18.685	ug/l	98
7) Trichlorofluoromethane	3.501	101	78678	19.068	ug/l	100
8) Diethyl Ether	3.959	74	38193	20.071	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	48840	19.195	ug/l	98
10) 1,1-Dichloroethene	4.342	96	49445	18.006	ug/l	99
11) Methyl Iodide	4.589	142	59902	18.980	ug/l	98
12) Methyl Acetate	5.024	43	80774	20.830	ug/l	97
13) Acrolein	4.177	56	48066	109.048	ug/l	96
14) Acrylonitrile	5.712	53	161179	98.458	ug/l	99
15) Acetone	4.424	58	40894	98.522	ug/l	94
16) Carbon Disulfide	4.712	76	142937	18.153	ug/l	99
17) Allyl chloride	5.018	41	86865	18.150	ug/l	98
18) Methylene Chloride	5.271	84	58725	18.757	ug/l	96
19) trans-1,2-Dichloroethene	5.789	96	53567	18.520	ug/l	97
20) Diisopropyl ether	6.671	45	206398	20.060	ug/l	96
21) 1,1-Dichloroethane	6.565	63	105602	19.237	ug/l	100
22) cis-1,2-Dichloroethene	7.483	96	65882	19.121	ug/l	99
23) tert-Butyl Alcohol	5.512	59	69667	102.708	ug/l #	100
24) Methyl tert-Butyl Ether	5.795	73	201225	20.306	ug/l	99
25) Chloroform	7.965	83	103843	19.837	ug/l	98
26) Cyclohexane	8.253	56	95417	18.579	ug/l #	100
29) 1,1-Dichloropropene	8.365	75	75526	19.873	ug/l	97
30) 2-Butanone	7.477	43	220855	104.878	ug/l	99
31) 2,2-Dichloropropane	7.489	77	93559	20.000	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	85744	19.614	ug/l	99
33) Carbon Tetrachloride	8.359	117	69889	20.005	ug/l	97
34) Benzene	8.600	78	242368	20.046	ug/l #	95
35) Methacrylonitrile	7.771	41	50804	21.400	ug/l	97
36) 1,2-Dichloroethane	8.665	62	79625	21.045	ug/l	97
37) Trichloroethene	9.347	130	59060	20.246	ug/l	95
38) Methylcyclohexane	9.600	83	87606	18.796	ug/l	99
39) 1,2-Dichloropropane	9.618	63	61825	20.550	ug/l	98
40) Dibromomethane	9.706	93	40620	20.905	ug/l	96
41) Bromodichloromethane	9.882	83	85287	20.431	ug/l	98
42) Vinyl Acetate	6.600	43	738325	103.000	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
 Data File : VN086259.D
 Acq On : 14 Apr 2025 11:03
 Operator : JC\MD
 Sample : VN0414WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Apr 15 03:05:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	86606	20.390	ug/l	97
44) Isopropyl Acetate	8.683	43	156559	19.868	ug/l	100
45) 1,4-Dioxane	9.694	88	26556	423.818	ug/l #	94
46) Methyl methacrylate	9.677	41	70947	20.434	ug/l	96
47) n-amyl Acetate	12.488	43	123569	19.779	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	96008	20.344	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	104035	20.829	ug/l	98
50) 1,1,2-Trichloroethane	11.012	97	56786	20.837	ug/l	98
51) Ethyl methacrylate	10.871	69	105789	20.888	ug/l	96
52) 1,3-Dichloropropane	11.159	76	100971	20.787	ug/l	99
53) Dibromochloromethane	11.353	129	62263	20.887	ug/l	98
54) 1,2-Dibromoethane	11.465	107	57757	20.995	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	271407	141.822	ug/l	99
56) Bromoform	12.576	173	41780	21.423	ug/l #	99
58) 4-Methyl-2-Pentanone	10.441	43	450944	105.268	ug/l	99
59) 2-Hexanone	11.194	43	331870	104.040	ug/l	99
61) Tetrachloroethene	11.100	164	57897	20.769	ug/l	97
62) Toluene	10.630	91	254946	20.136	ug/l	100
64) Chlorobenzene	11.888	112	157296	20.334	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.959	131	53903	21.115	ug/l	99
66) Ethyl Benzene	11.959	91	281296	20.033	ug/l	99
67) m/p-Xylenes	12.071	106	212715	40.741	ug/l	98
68) o-Xylene	12.394	106	106466	20.731	ug/l	97
69) Styrene	12.406	104	178420	20.600	ug/l	98
70) Isopropylbenzene	12.694	105	255832	20.204	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	76539	21.236	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	77799m	20.737	ug/l	
73) Bromobenzene	12.976	156	58234	20.760	ug/l	99
74) n-propylbenzene	13.029	91	302453	20.228	ug/l	100
75) 2-Chlorotoluene	13.123	91	190051	20.222	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	211804	20.362	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	35624	20.593	ug/l	93
78) 4-Chlorotoluene	13.218	91	187622	19.990	ug/l	99
79) tert-butylbenzene	13.435	119	177378	19.708	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	214794	20.364	ug/l	98
81) sec-Butylbenzene	13.612	105	248141	19.764	ug/l	100
82) p-Isopropyltoluene	13.723	119	207375	19.800	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	106668	20.459	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	107111	20.479	ug/l	100
85) n-Butylbenzene	14.053	91	184228	19.498	ug/l	99
86) Hexachloroethane	14.329	117	34967	19.792	ug/l	100
87) 1,2-Dichlorobenzene	14.100	146	106853	20.757	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	16765	20.422	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	51313	20.486	ug/l	100
90) Hexachlorobutadiene	15.494	225	20003	18.496	ug/l	98
91) Naphthalene	15.635	128	202577	20.513	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	51313	20.486	ug/l	100

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

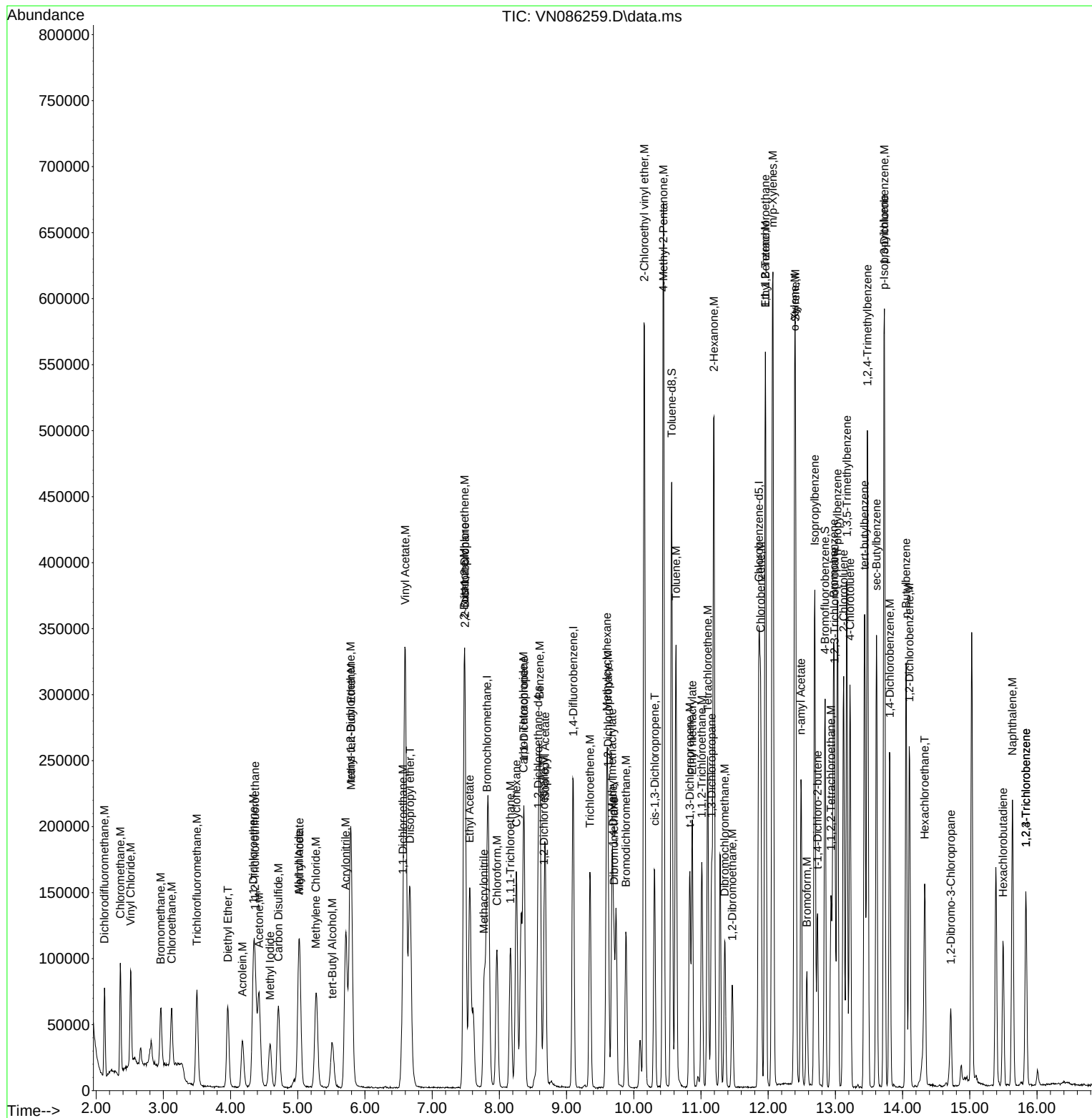
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041425\
Data File : VN086259.D
Acq On : 14 Apr 2025 11:03
Operator : JC\MD
Sample : VN0414WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

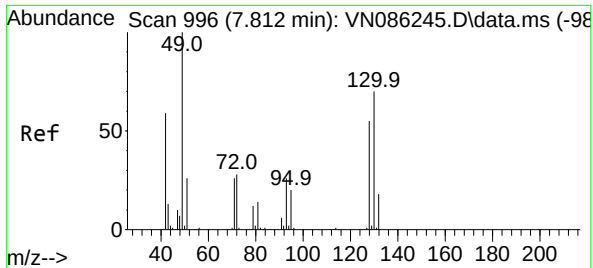
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Manual Integrations
APPROVED

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

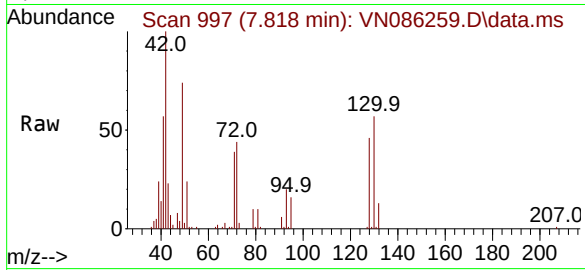
Quant Time: Apr 15 03:05:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 01:21:52 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

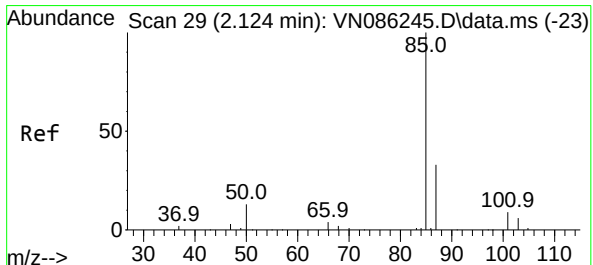
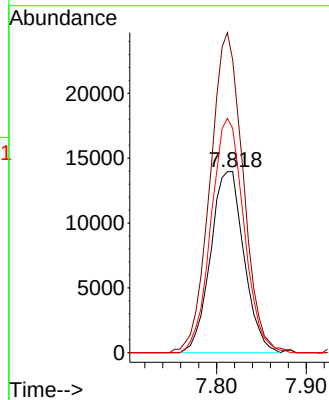
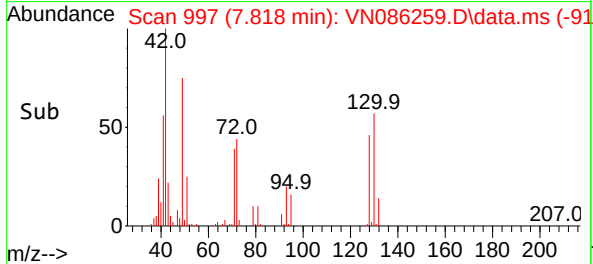
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion:128 Resp: 3606
Ion Ratio Lower Upper
128 100
49 174.9 0.0 452.5
130 127.6 0.0 315.0

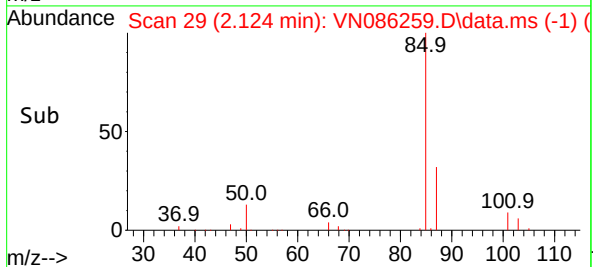
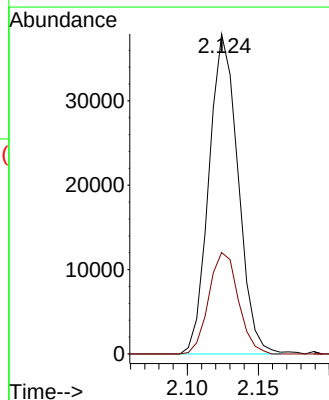
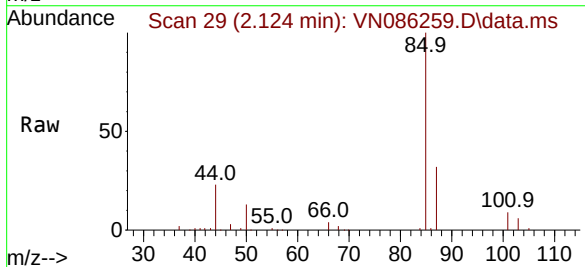
Manual Integrations
APPROVED

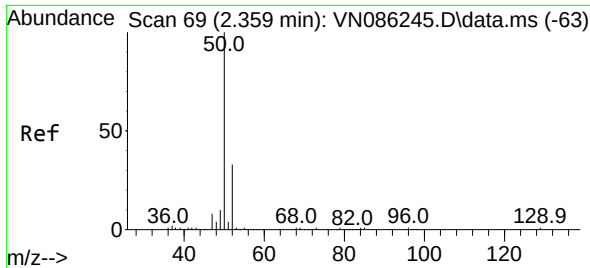
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#2
Dichlorodifluoromethane
Concen: 18.713 ug/l
RT: 2.124 min Scan# 29
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion: 85 Resp: 54070
Ion Ratio Lower Upper
85 100
87 31.7 16.3 48.9





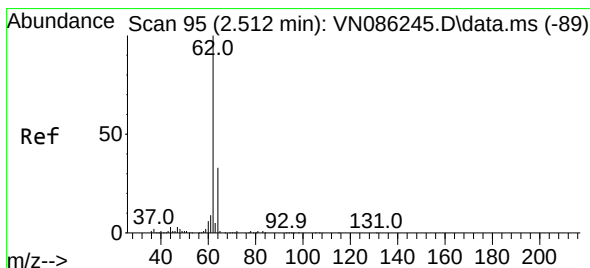
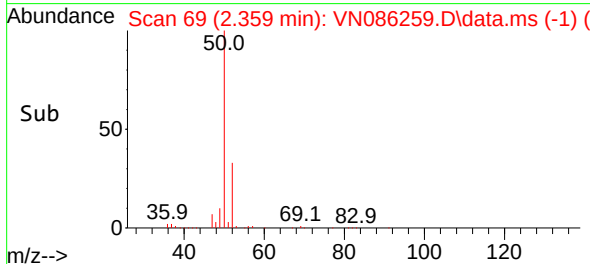
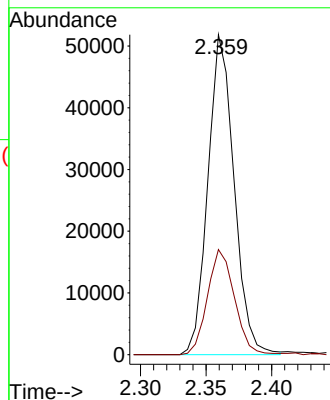
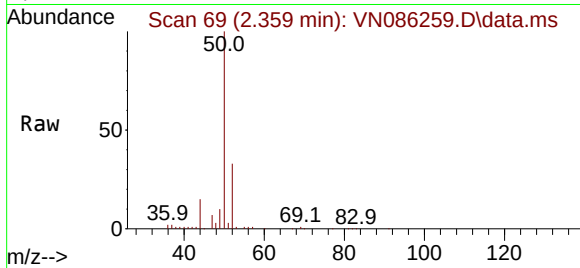
#3
Chloromethane
Concen: 18.029 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Tgt Ion: 50 Resp: 71999
Ion Ratio Lower Upper
50 100
52 32.9 26.4 39.6

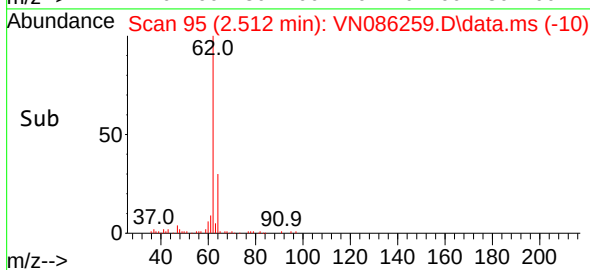
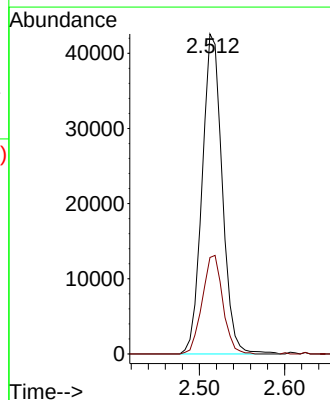
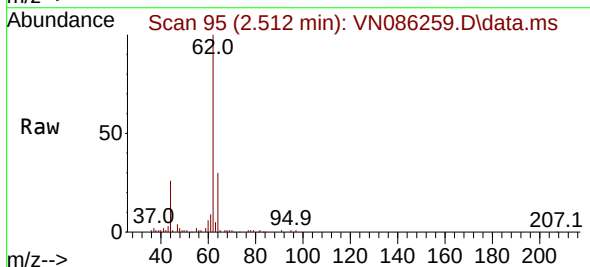
Manual Integrations
APPROVED

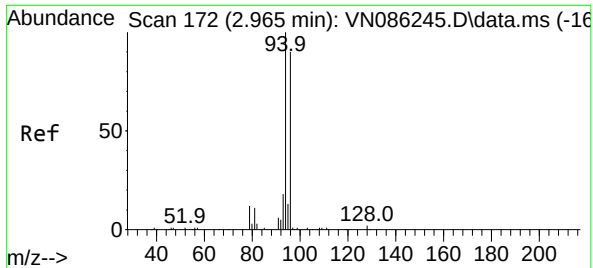
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#4
Vinyl Chloride
Concen: 18.312 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion: 62 Resp: 69656
Ion Ratio Lower Upper
62 100
64 30.2 26.3 39.5





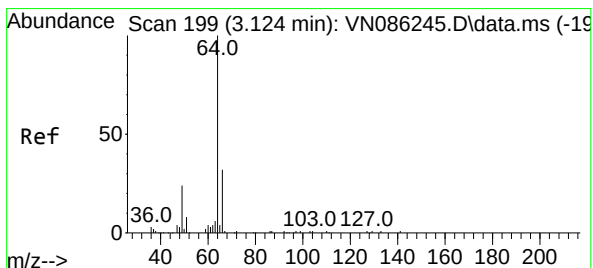
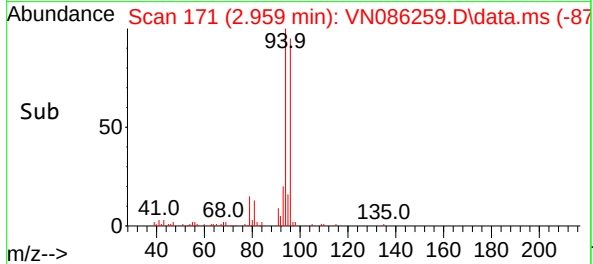
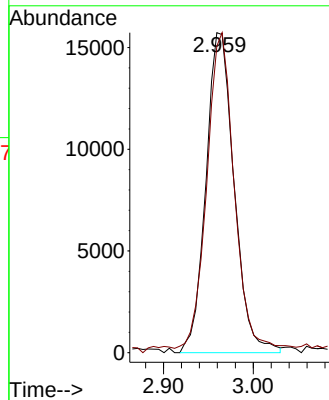
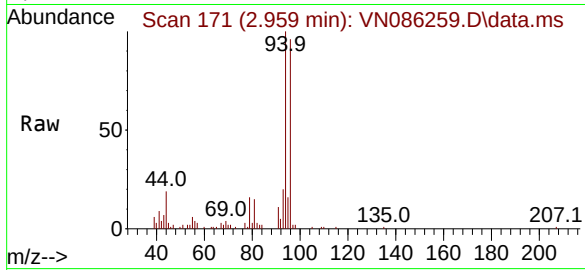
#5
Bromomethane
Concen: 18.133 ug/l
RT: 2.959 min Scan# 172
Delta R.T. -0.006 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Tgt Ion: 94 Resp: 34400
Ion Ratio Lower Upper
94 100
96 93.8 72.2 108.2

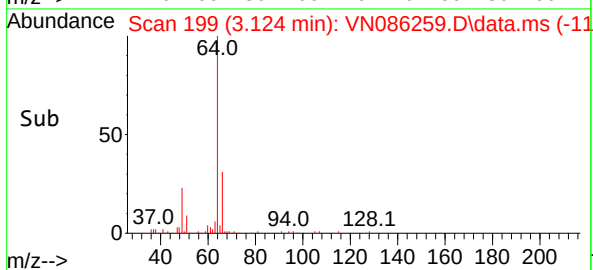
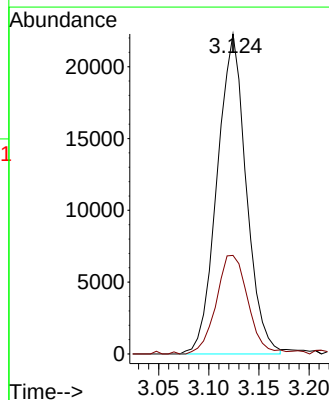
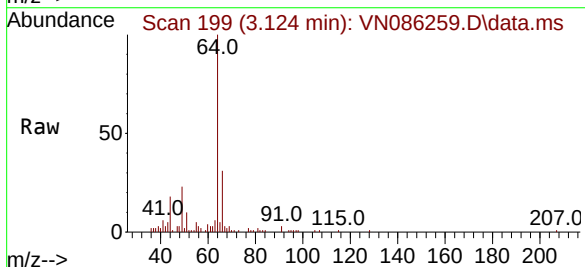
Manual Integrations
APPROVED

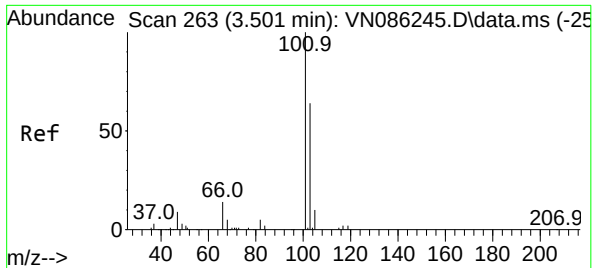
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#6
Chloroethane
Concen: 18.685 ug/l
RT: 3.124 min Scan# 199
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion: 64 Resp: 44882
Ion Ratio Lower Upper
64 100
66 30.8 25.7 38.5





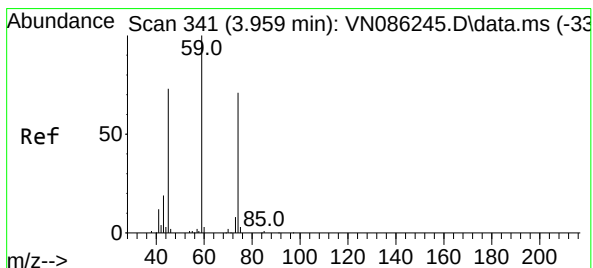
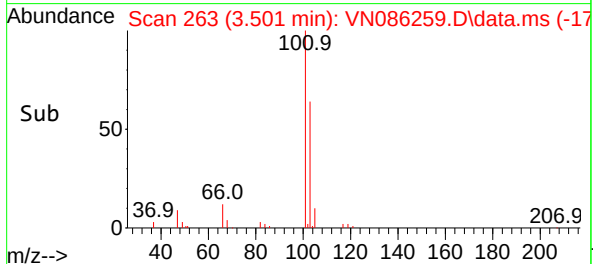
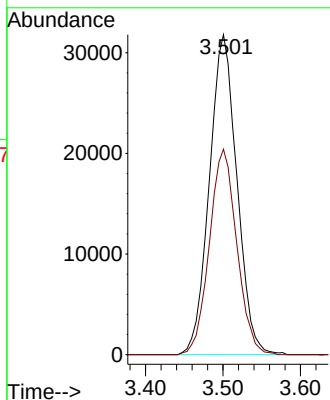
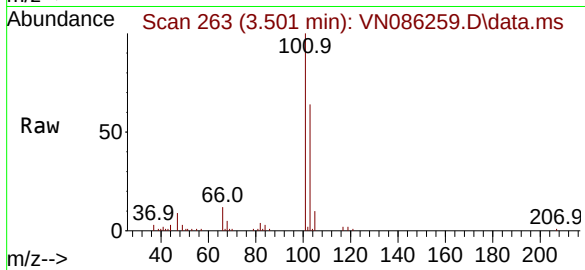
#7
Trichlorofluoromethane
Concen: 19.068 ug/l
RT: 3.501 min Scan# 263
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Tgt Ion:101 Resp: 78678
Ion Ratio Lower Upper
101 100
103 64.2 51.2 76.8

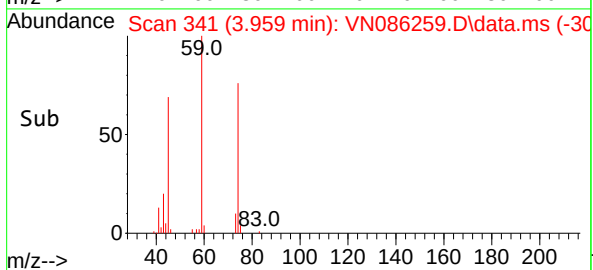
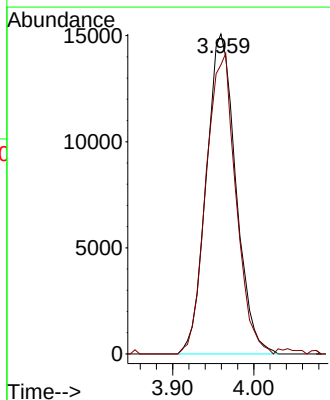
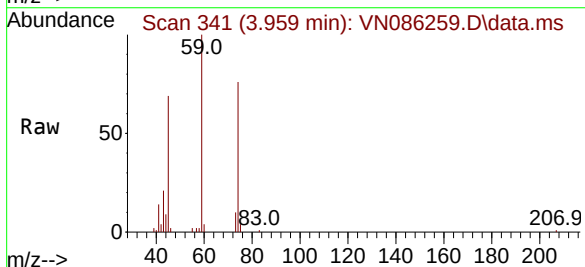
Manual Integrations
APPROVED

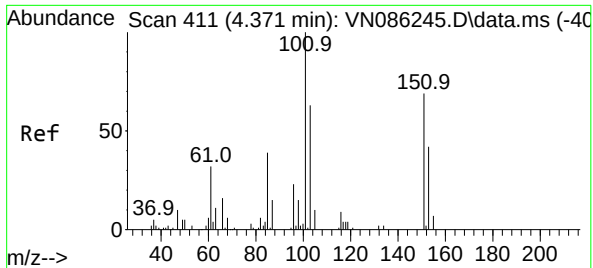
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#8
Diethyl Ether
Concen: 20.071 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion: 74 Resp: 38193
Ion Ratio Lower Upper
74 100
45 94.4 19.2 173.2





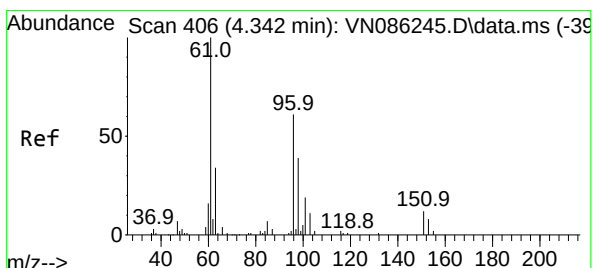
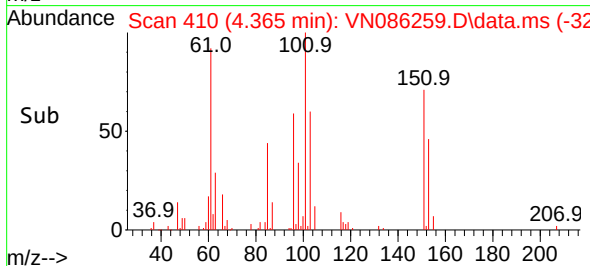
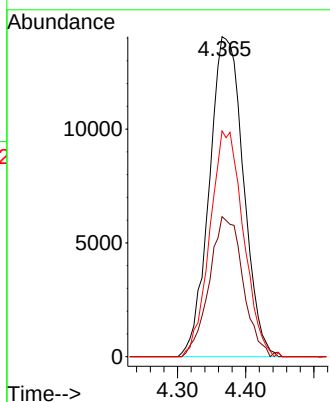
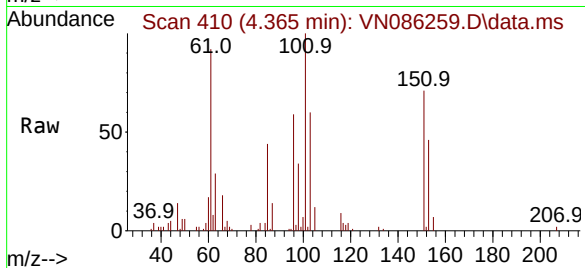
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.195 ug/l
RT: 4.365 min Scan# 411
Delta R.T. -0.006 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Tgt Ion:101 Resp: 48840
Ion Ratio Lower Upper
101 100
85 43.0 0.0 93.0
151 69.3 0.0 138.6

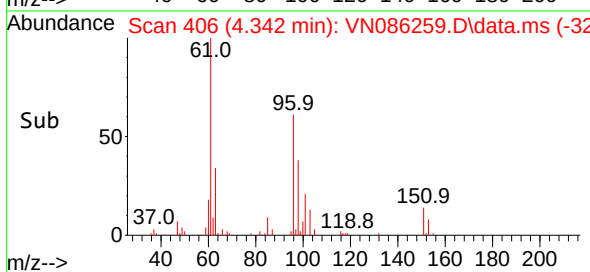
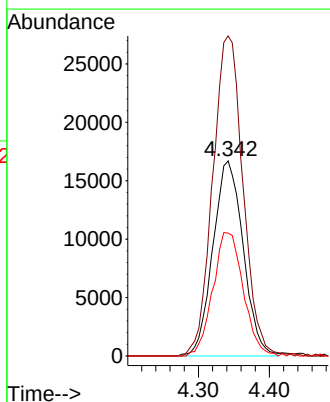
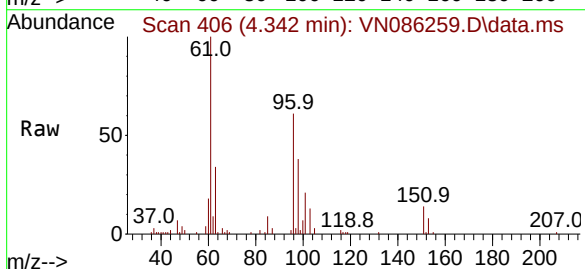
Manual Integrations
APPROVED

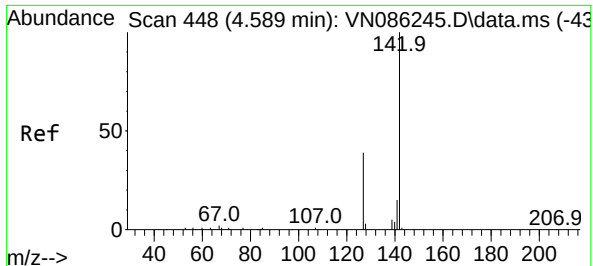
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#10
1,1-Dichloroethene
Concen: 18.006 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion: 96 Resp: 49445
Ion Ratio Lower Upper
96 100
61 164.0 131.1 196.7
98 63.0 51.6 77.4





#11

Methyl Iodide

Concen: 18.980 ug/l

RT: 4.589 min Scan# 448

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

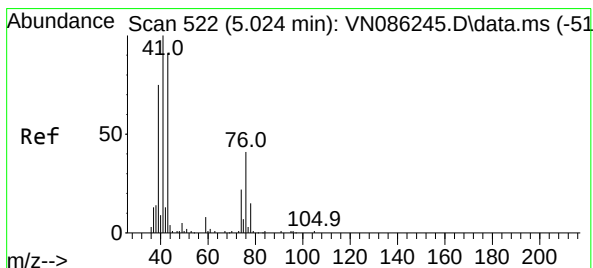
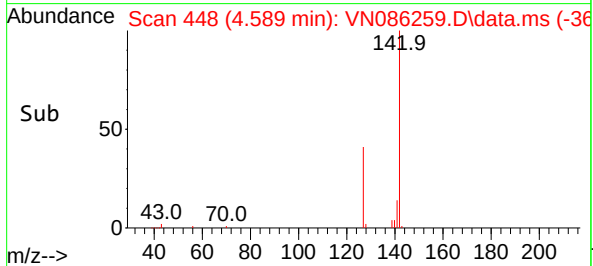
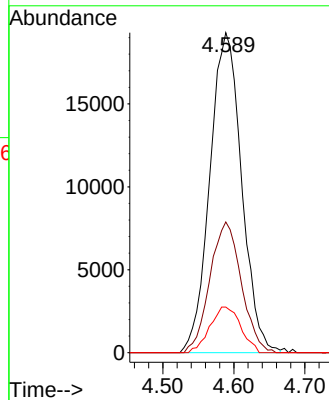
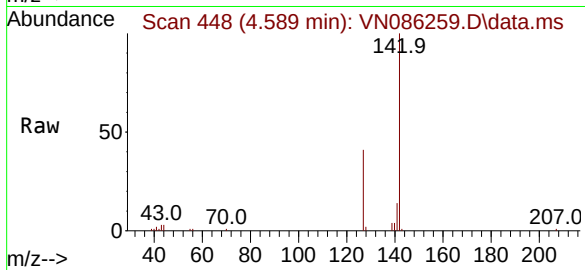
Tgt Ion:	142	Resp:	5990
Ion Ratio	Lower	Upper	
142	100		
127	41.0	19.6	58.8
141	14.3	7.3	21.9

Manual Integrations

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Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#12

Methyl Acetate

Concen: 20.830 ug/l

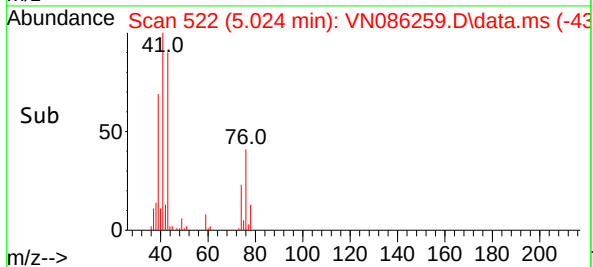
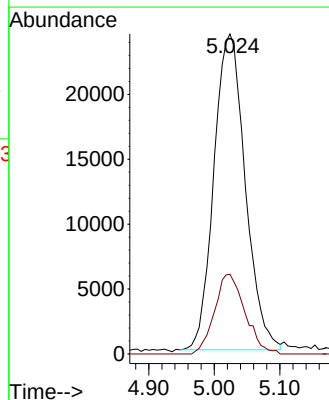
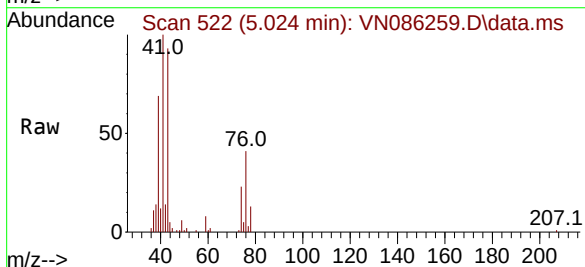
RT: 5.024 min Scan# 522

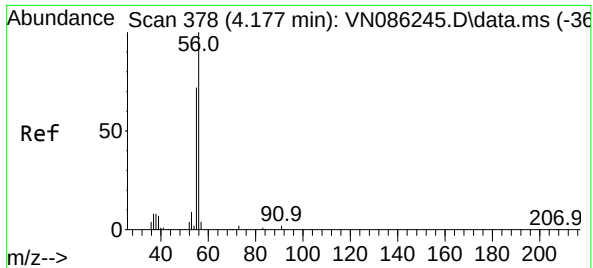
Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

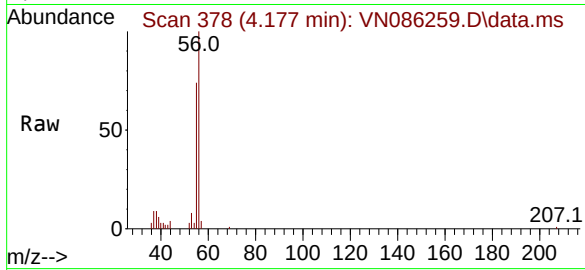
Tgt Ion:	43	Resp:	80774
Ion Ratio	Lower	Upper	
43	100		
74	25.5	19.1	28.7





#13
Acrolein
Concen: 109.048 ug/l
RT: 4.177 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

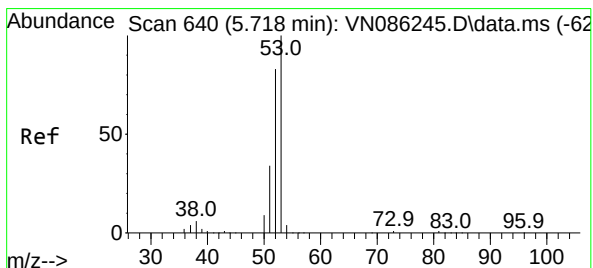
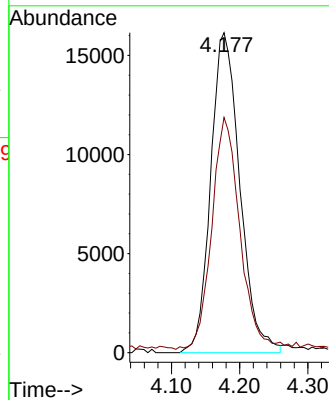
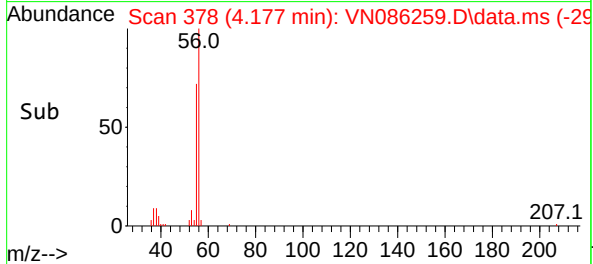
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



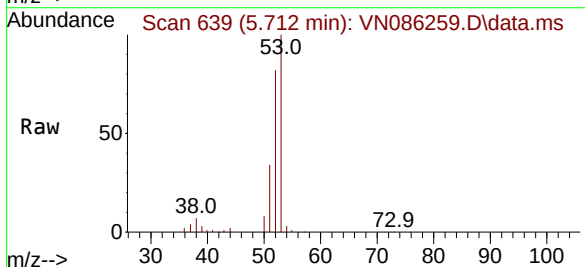
Tgt Ion: 56 Resp: 4806
Ion Ratio Lower Upper
56 100
55 67.7 56.5 84.7

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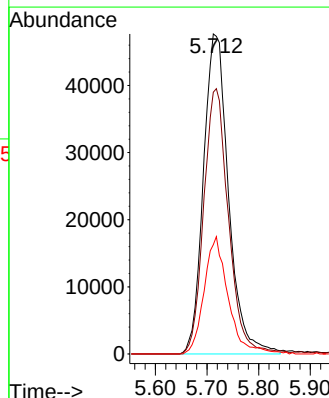
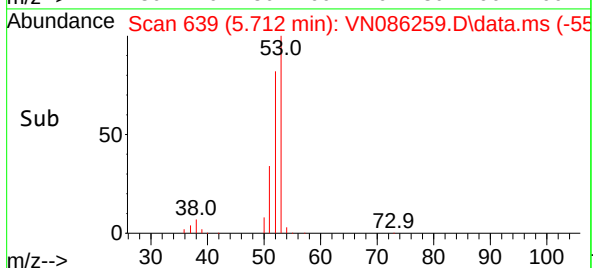
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

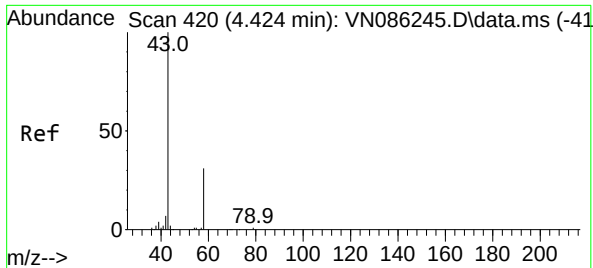


#14
Acrylonitrile
Concen: 98.458 ug/l
RT: 5.712 min Scan# 639
Delta R.T. -0.006 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03



Tgt Ion: 53 Resp: 161179
Ion Ratio Lower Upper
53 100
52 80.3 40.2 120.6
51 34.1 17.5 52.6





#15

Acetone

Concen: 98.522 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

Tgt Ion: 58 Resp: 40894

Ion Ratio Lower Upper

58 100

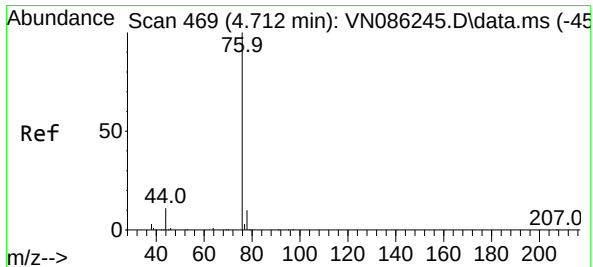
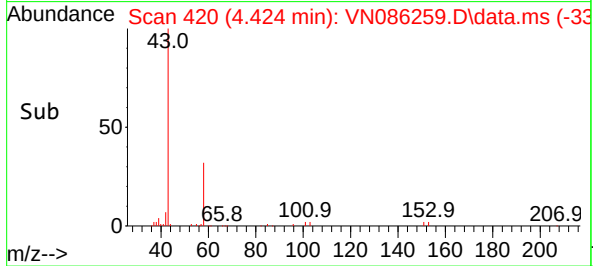
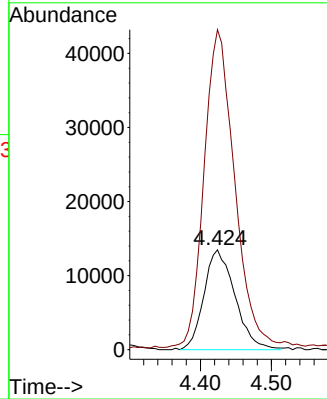
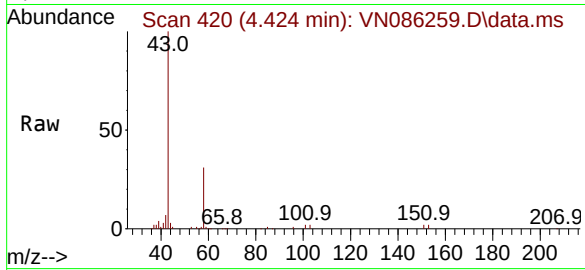
43 314.5 261.8 392.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#16

Carbon Disulfide

Concen: 18.153 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN086259.D

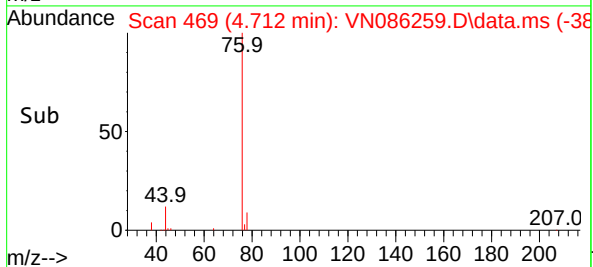
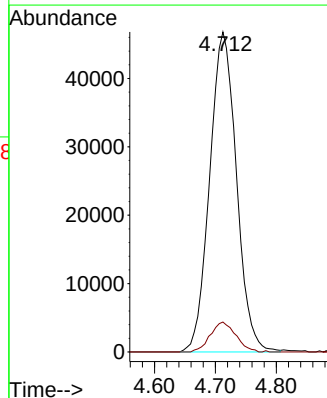
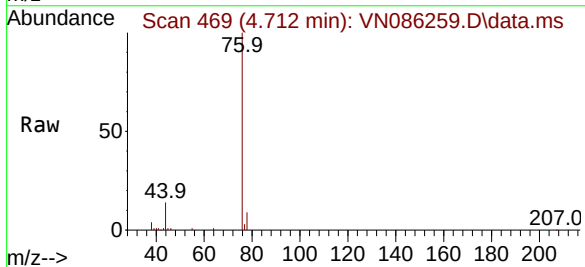
Acq: 14 Apr 2025 11:03

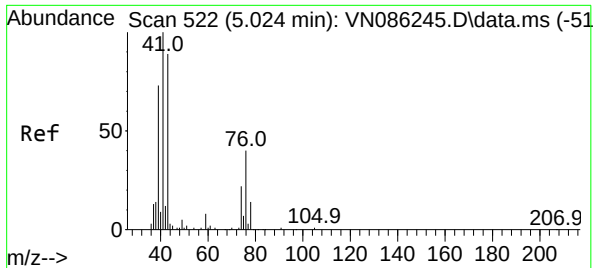
Tgt Ion: 76 Resp: 142937

Ion Ratio Lower Upper

76 100

78 9.4 7.7 11.5





#17

Allyl chloride

Concen: 18.150 ug/l

RT: 5.018 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

Tgt Ion: 41 Resp: 8686

Ion Ratio Lower Upper

41 100

39 71.2 34.4 103.2

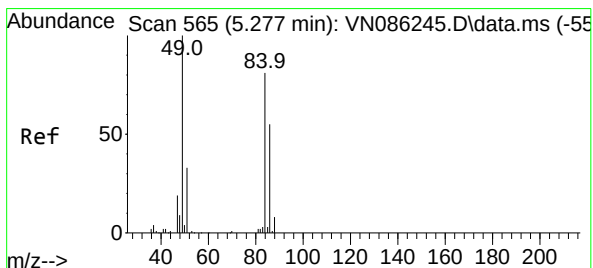
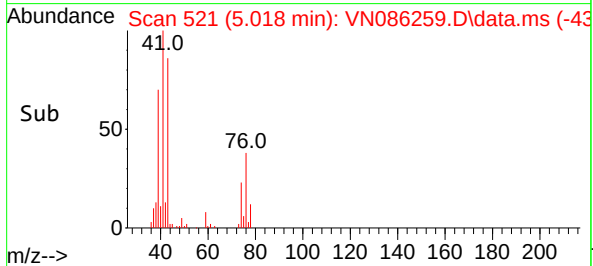
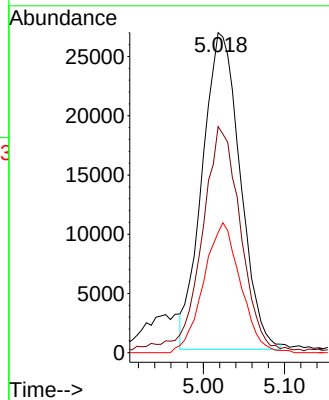
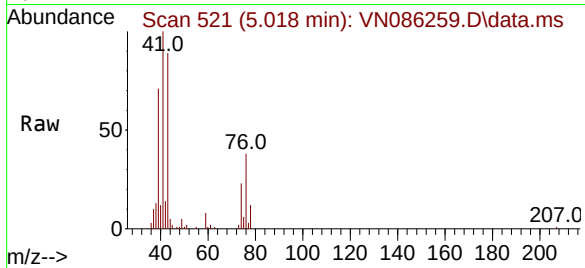
76 37.8 18.8 56.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#18

Methylene Chloride

Concen: 18.757 ug/l

RT: 5.271 min Scan# 564

Delta R.T. -0.006 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Tgt Ion: 84 Resp: 58725

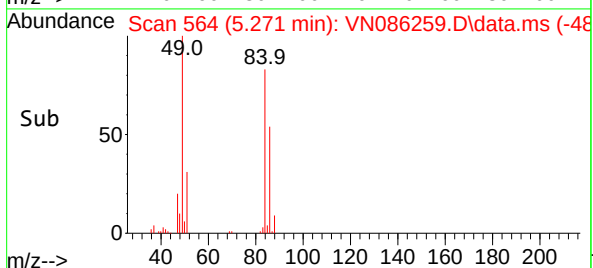
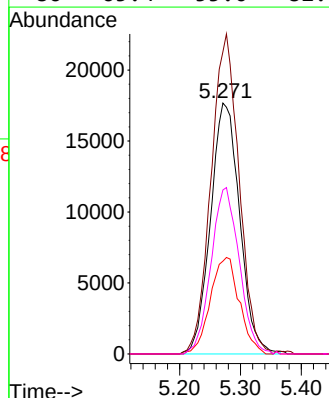
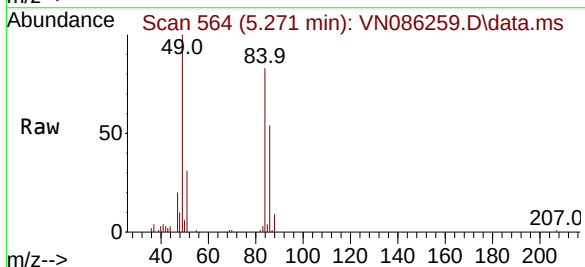
Ion Ratio Lower Upper

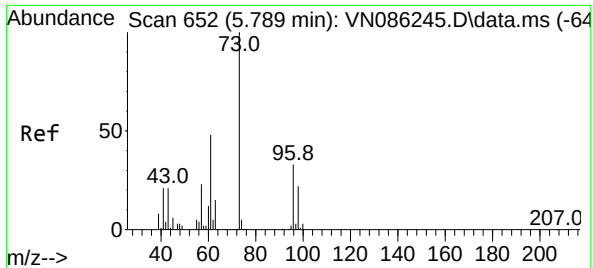
84 100

49 120.5 99.1 148.7

51 37.0 32.3 48.5

86 65.4 55.0 82.4





#19

trans-1,2-Dichloroethene

Concen: 18.520 ug/l

RT: 5.789 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

Tgt Ion: 96 Resp: 5356

Ion Ratio Lower Upper

96 100

61 140.0 115.9 173.9

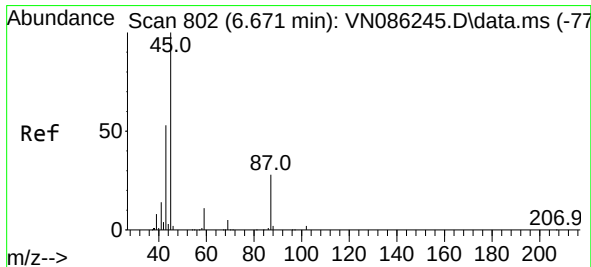
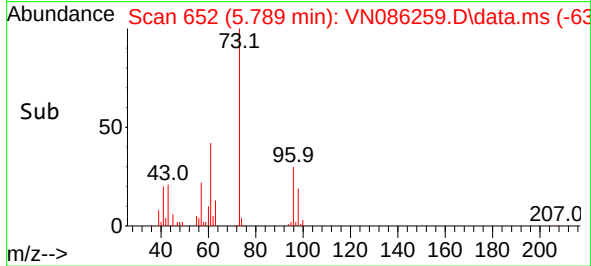
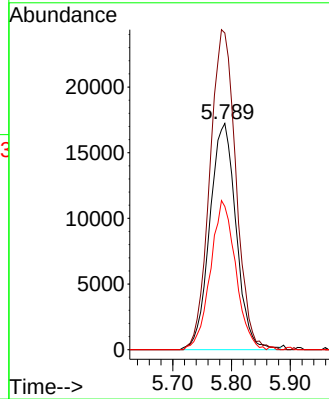
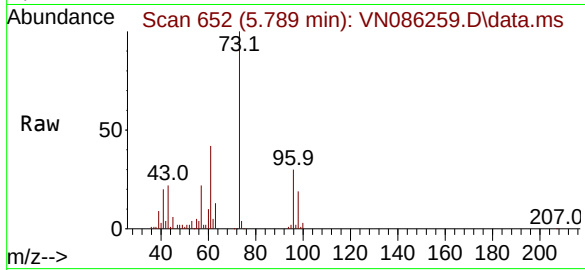
98 63.3 52.1 78.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#20

Diisopropyl ether

Concen: 20.060 ug/l

RT: 6.671 min Scan# 802

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Tgt Ion: 45 Resp: 206398

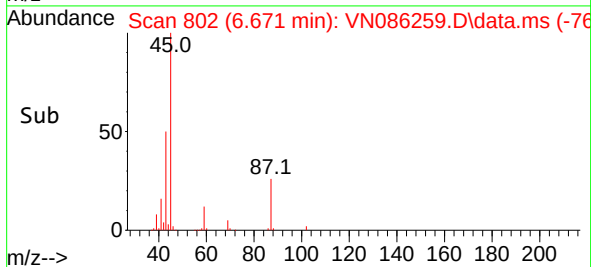
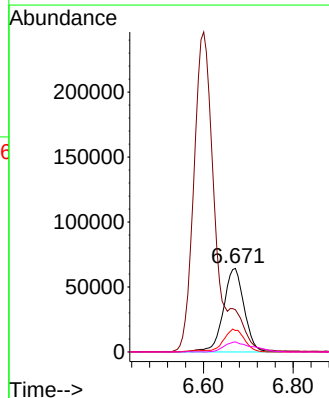
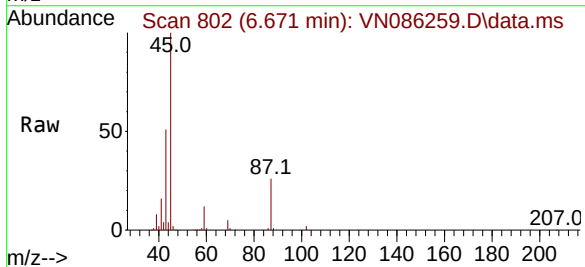
Ion Ratio Lower Upper

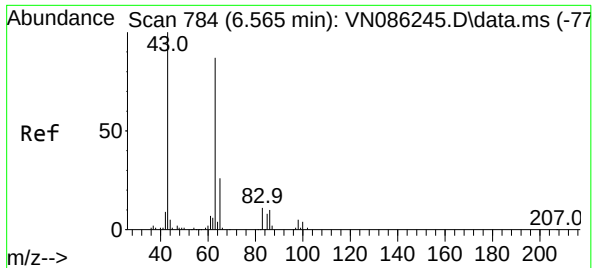
45 100

43 49.2 42.3 63.5

87 25.6 22.2 33.4

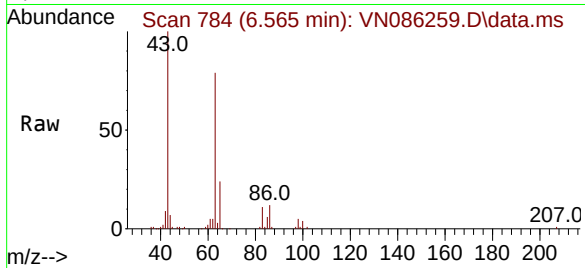
59 12.2 9.1 13.7





#21
1,1-Dichloroethane
Concen: 19.237 ug/l
RT: 6.565 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

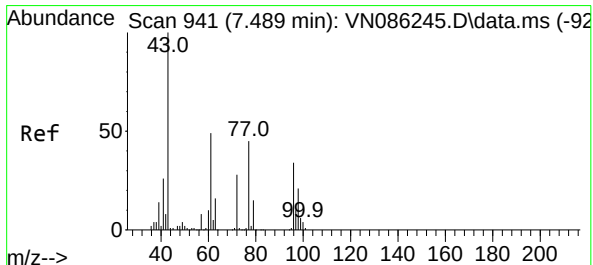
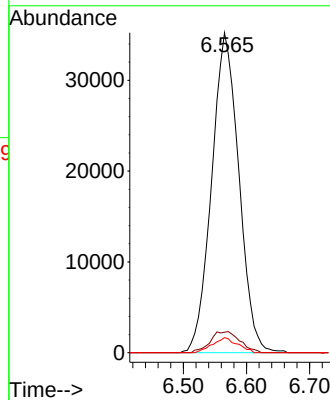
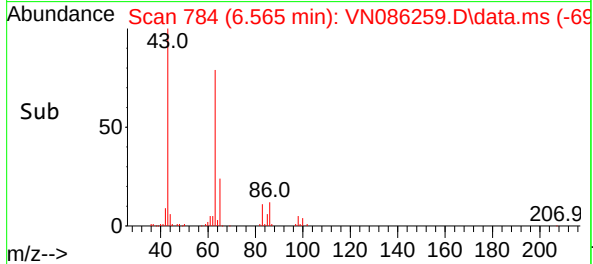
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion: 63 Resp: 10560
Ion Ratio Lower Upper
63 100
98 6.4 3.1 9.3
100 4.7 2.3 6.9

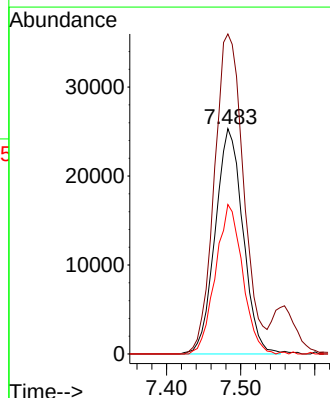
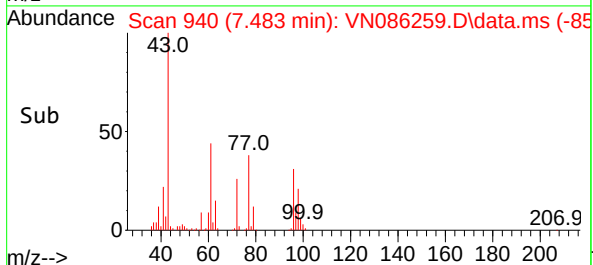
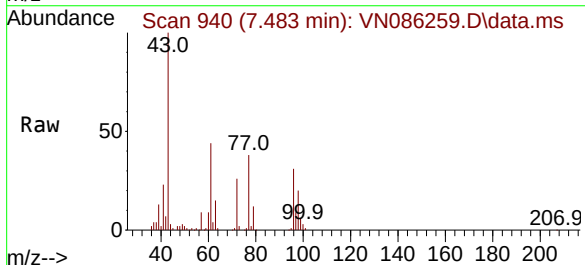
Manual Integrations
APPROVED

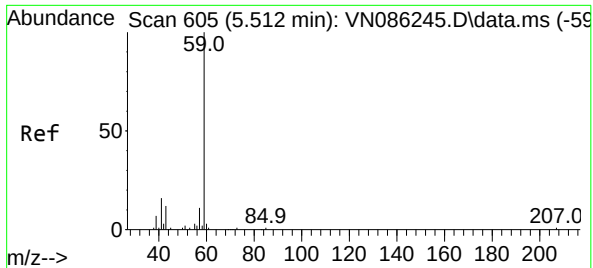
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#22
cis-1,2-Dichloroethene
Concen: 19.121 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.006 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

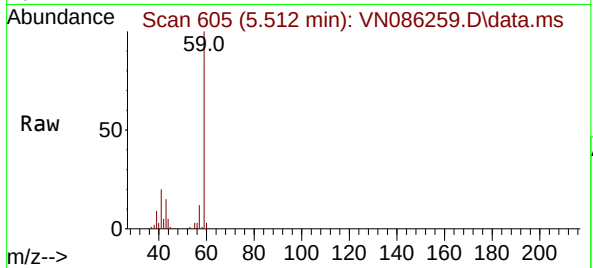
Tgt Ion: 96 Resp: 65882
Ion Ratio Lower Upper
96 100
61 149.9 119.5 179.3
98 64.7 51.0 76.6





#23
tert-Butyl Alcohol
Concen: 102.708 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

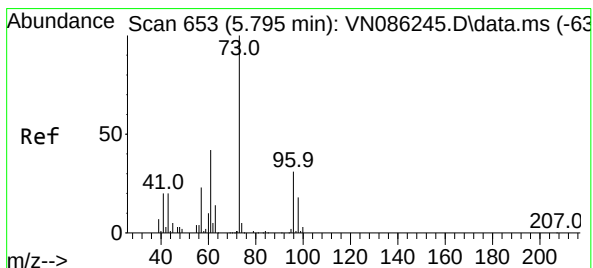
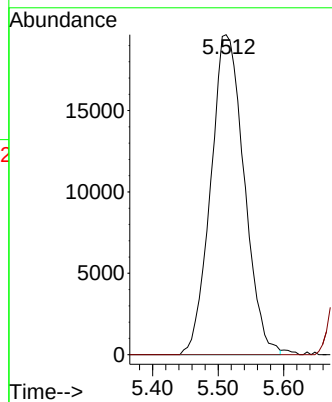
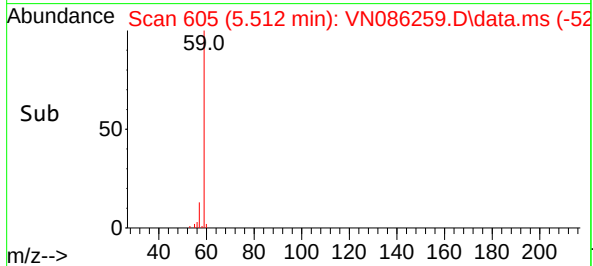
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion: 59 Resp: 6966
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

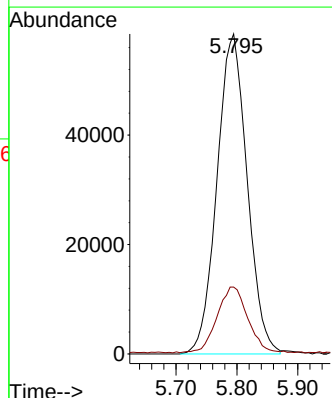
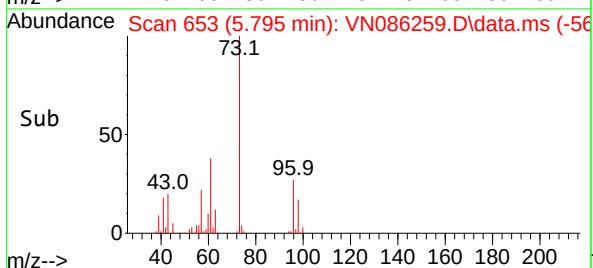
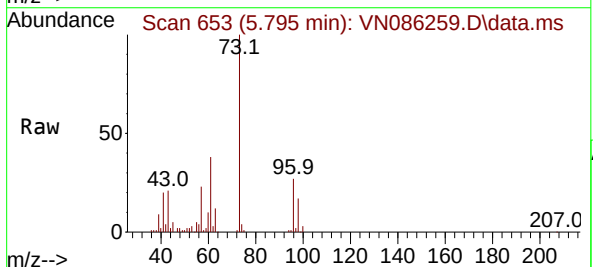
Manual Integrations
APPROVED

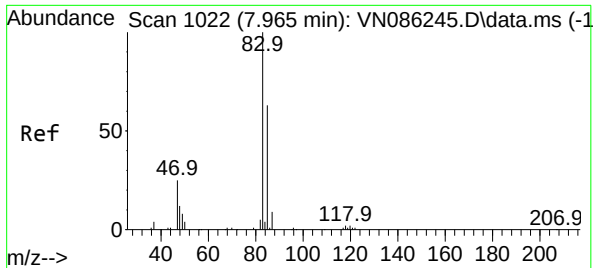
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#24
Methyl tert-Butyl Ether
Concen: 20.306 ug/l
RT: 5.795 min Scan# 653
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

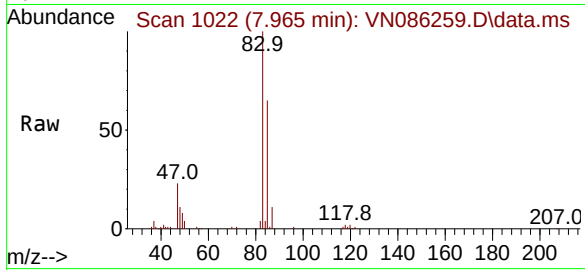
Tgt Ion: 73 Resp: 201225
Ion Ratio Lower Upper
73 100
43 20.7 16.8 25.2





#25
Chloroform
Concen: 19.837 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

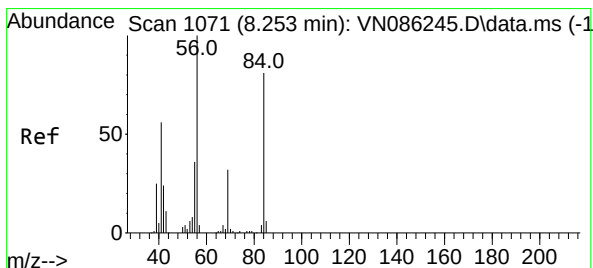
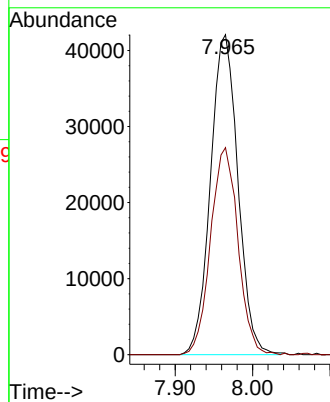
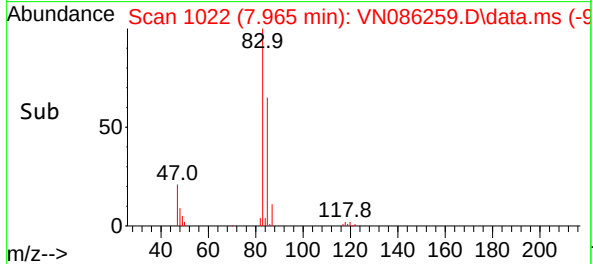
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion: 83 Resp: 10384
Ion Ratio Lower Upper
83 100
85 64.7 50.5 75.7

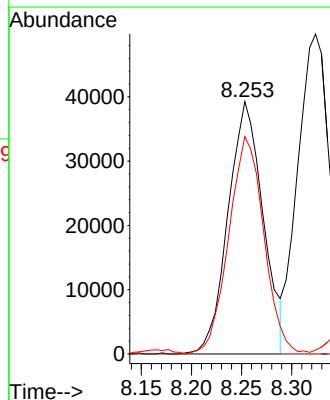
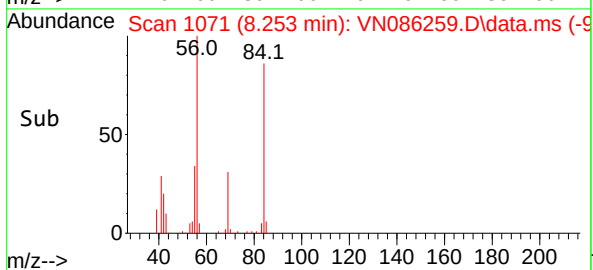
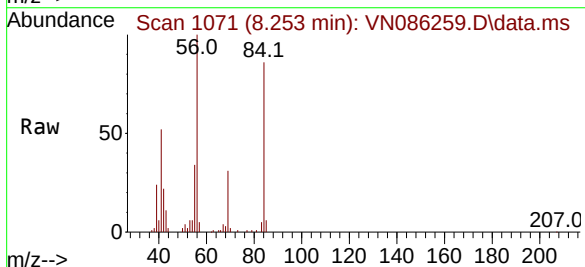
Manual Integrations
APPROVED

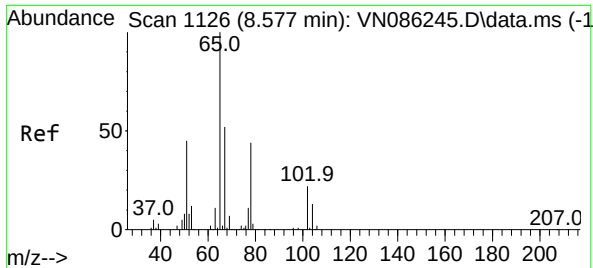
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#26
Cyclohexane
Concen: 18.579 ug/l
RT: 8.253 min Scan# 1071
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

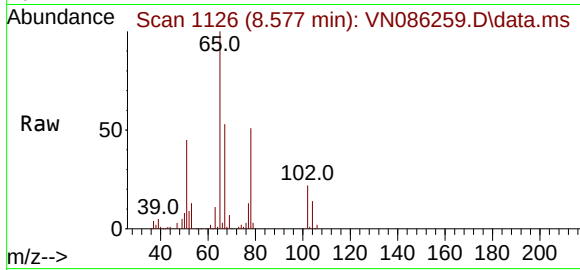
Tgt Ion: 56 Resp: 95417
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 86.4 69.0 103.4





#27
1,2-Dichloroethane-d4
Concen: 29.537 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

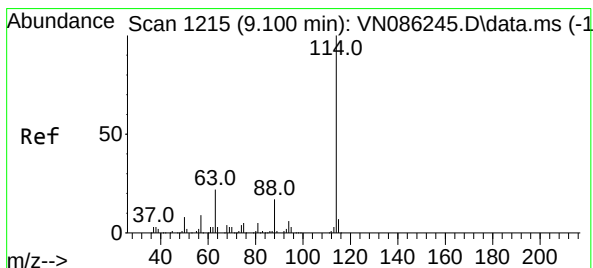
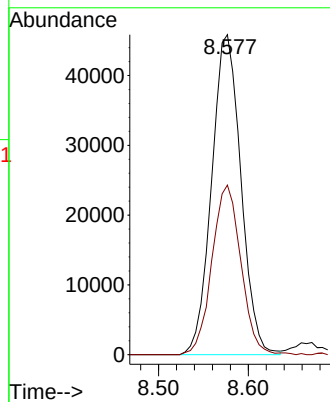
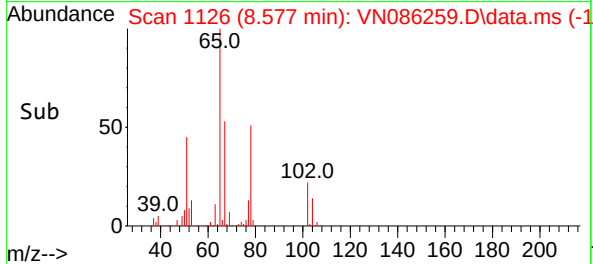
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion: 65 Resp: 103894
Ion Ratio Lower Upper
65 100
67 52.2 43.4 65.2

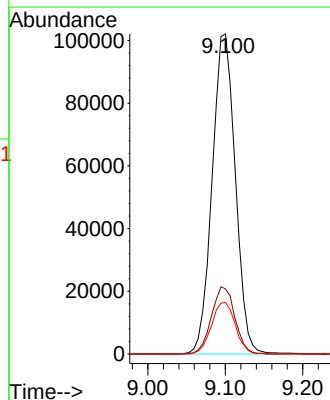
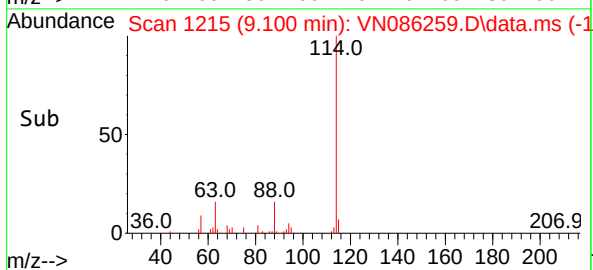
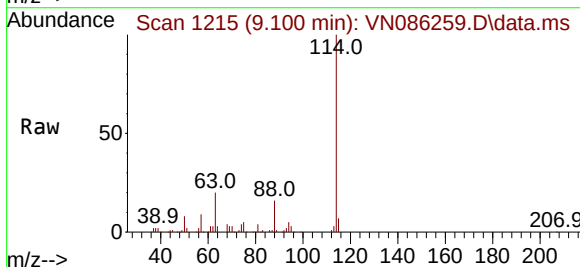
Manual Integrations
APPROVED

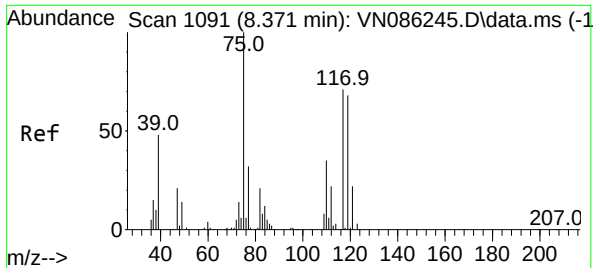
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion:114 Resp: 212146
Ion Ratio Lower Upper
114 100
63 21.1 17.8 26.6
88 16.5 13.4 20.2





#29

1,1-Dichloropropene

Concen: 19.873 ug/l

RT: 8.365 min Scan# 1090

Delta R.T. -0.006 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

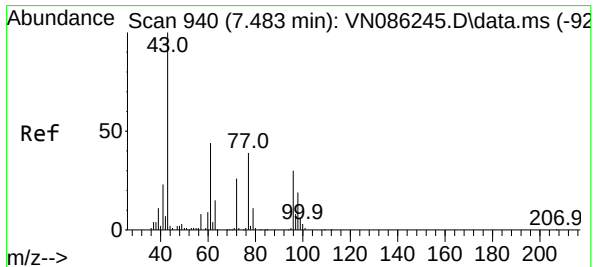
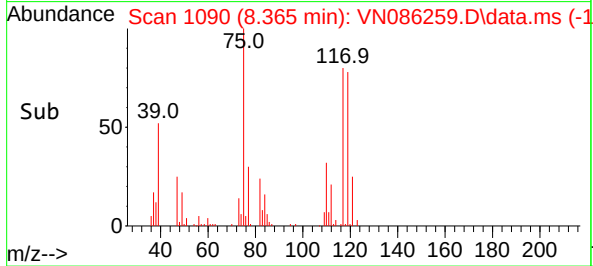
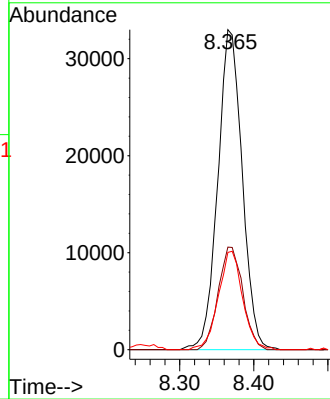
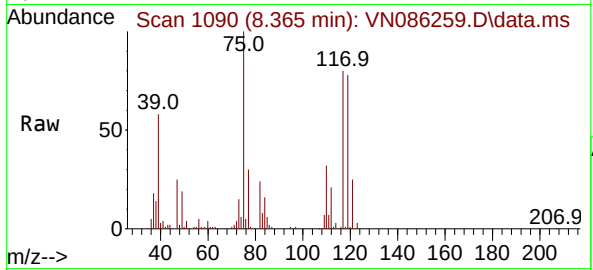
Tgt Ion: 75	Resp: 75520
Ion Ratio	Lower Upper
75 100	
110 32.2	0.0 68.6
77 30.7	0.0 63.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#30

2-Butanone

Concen: 104.878 ug/l

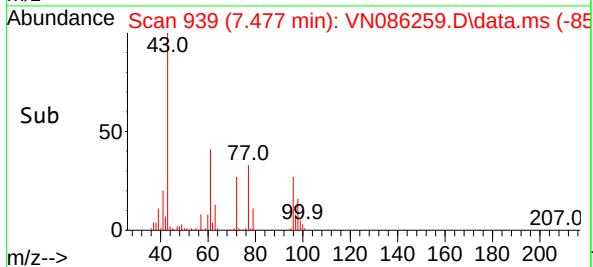
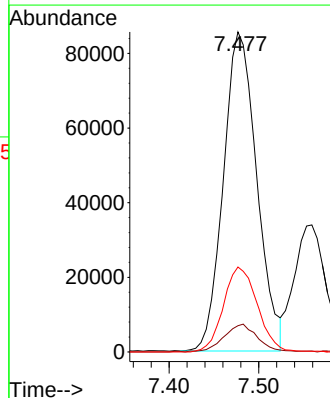
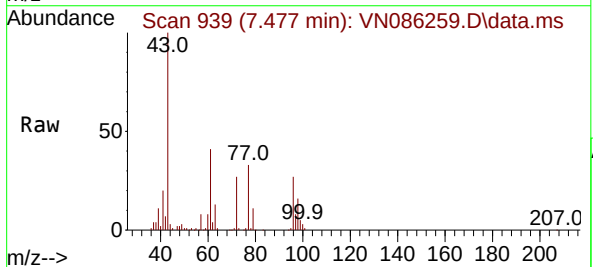
RT: 7.477 min Scan# 939

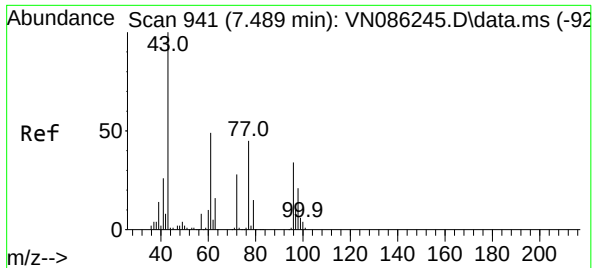
Delta R.T. -0.006 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Tgt Ion: 43	Resp: 220855
Ion Ratio	Lower Upper
43 100	
57 8.7	6.4 9.6
72 27.1	21.5 32.3





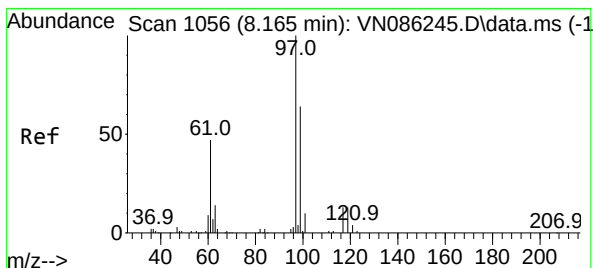
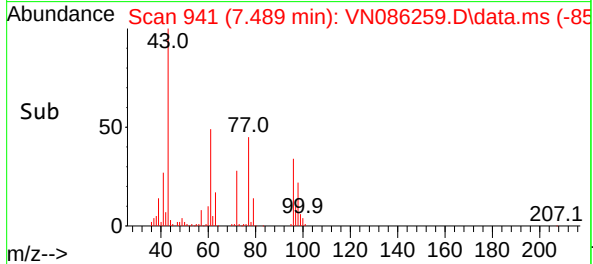
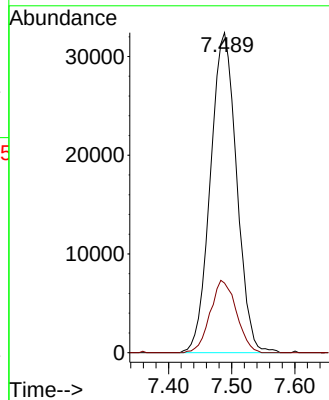
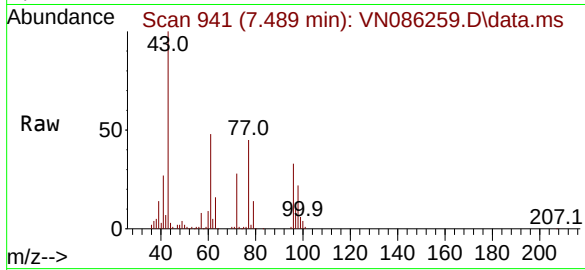
#31
2,2-Dichloropropane
Concen: 20.000 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Tgt Ion: 77 Resp: 93559
Ion Ratio Lower Upper
77 100
97 22.5 18.8 28.2

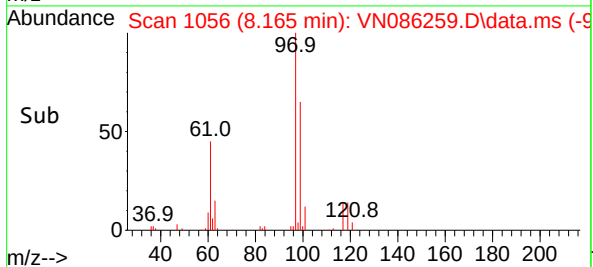
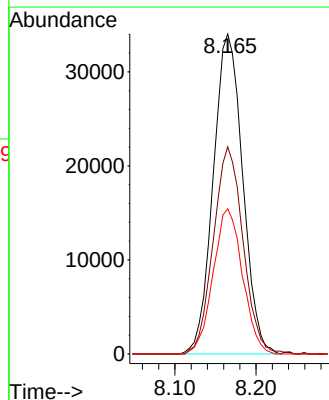
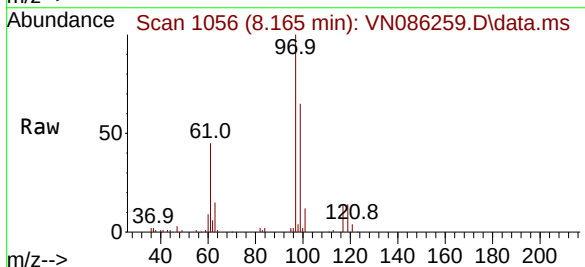
Manual Integrations
APPROVED

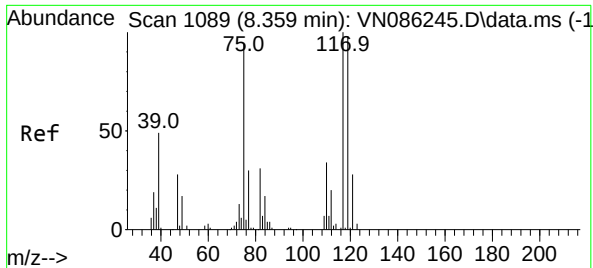
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#32
1,1,1-Trichloroethane
Concen: 19.614 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion: 97 Resp: 85744
Ion Ratio Lower Upper
97 100
99 65.4 51.4 77.2
61 45.3 37.0 55.6





#33

Carbon Tetrachloride

Concen: 20.005 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

Tgt Ion:117 Resp: 69889

Ion Ratio Lower Upper

117 100

119 95.0 78.3 117.5

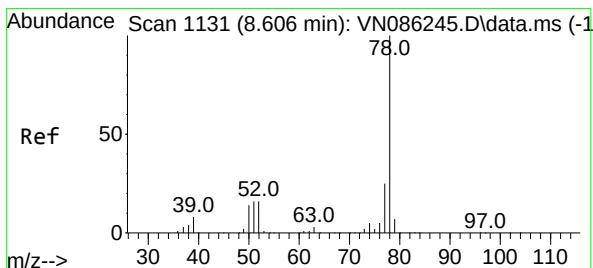
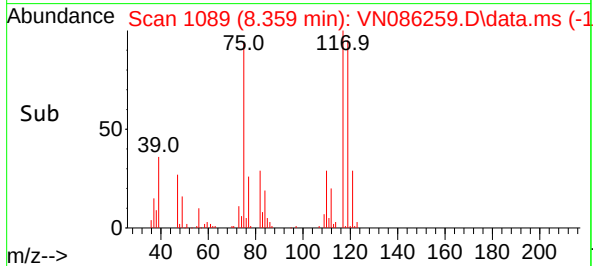
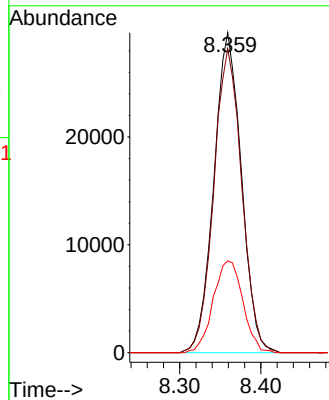
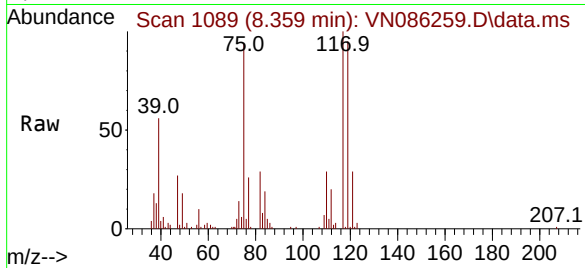
121 28.7 22.5 33.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#34

Benzene

Concen: 20.046 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

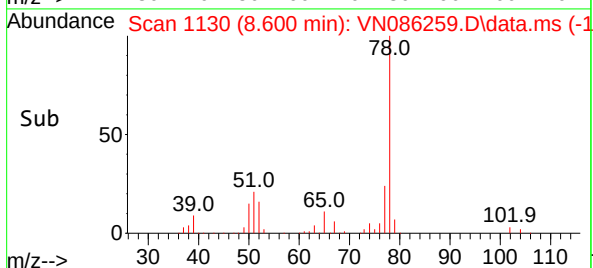
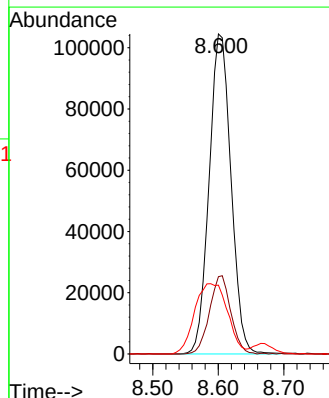
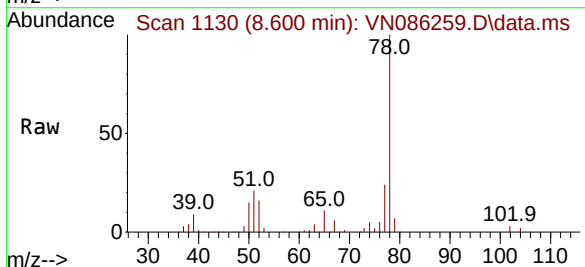
Tgt Ion: 78 Resp: 242368

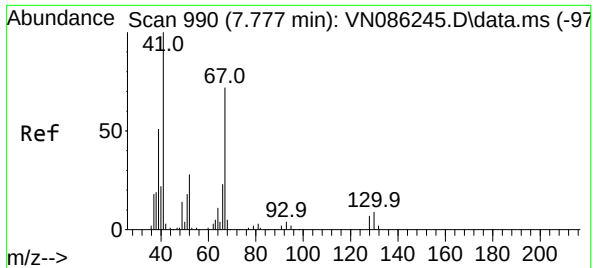
Ion Ratio Lower Upper

78 100

77 24.2 20.0 30.0

51 20.7 12.9 19.3#





#35

Methacrylonitrile

Concen: 21.400 ug/l

RT: 7.771 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

Tgt Ion: 41 Resp: 50804

Ion Ratio Lower Upper

41 100

39 54.0 25.8 77.3

67 74.8 36.0 108.0

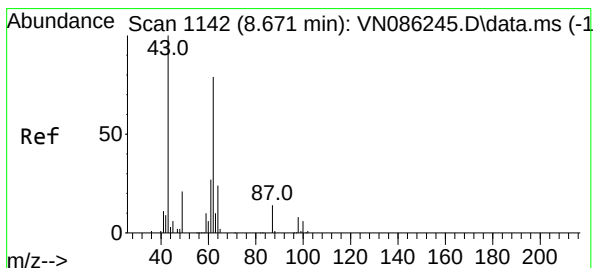
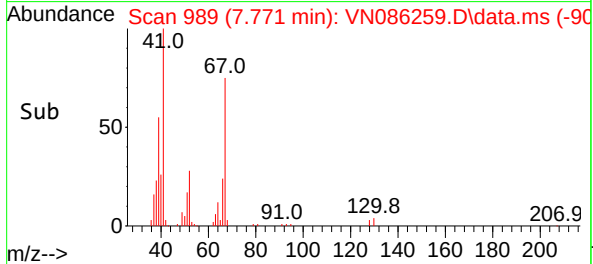
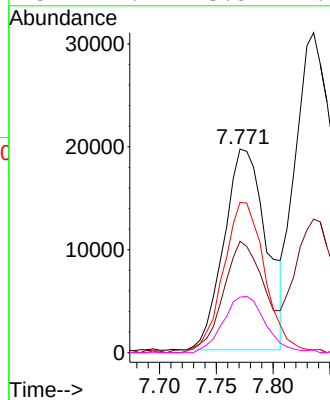
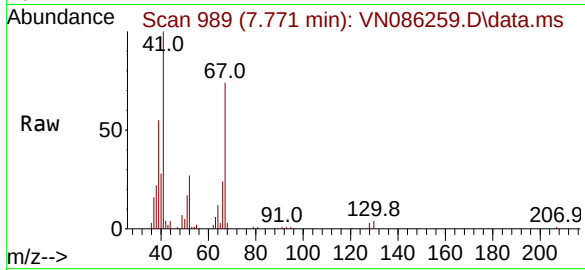
52 27.7 13.8 41.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#36

1,2-Dichloroethane

Concen: 21.045 ug/l

RT: 8.665 min Scan# 1141

Delta R.T. -0.006 min

Lab File: VN086259.D

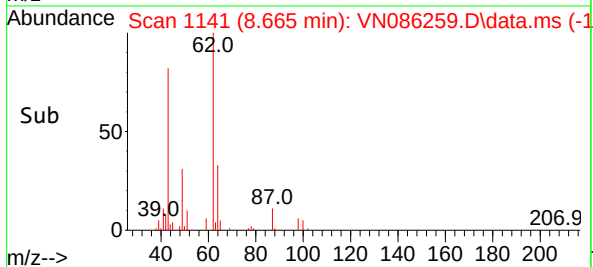
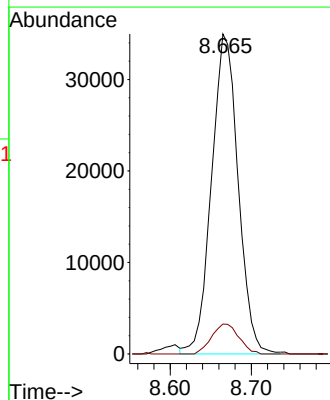
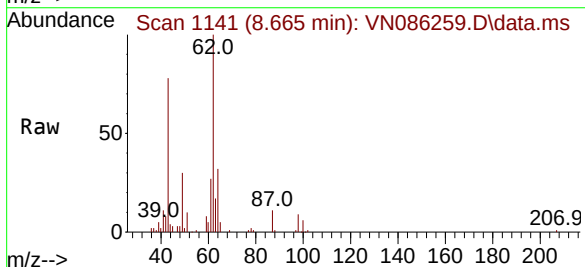
Acq: 14 Apr 2025 11:03

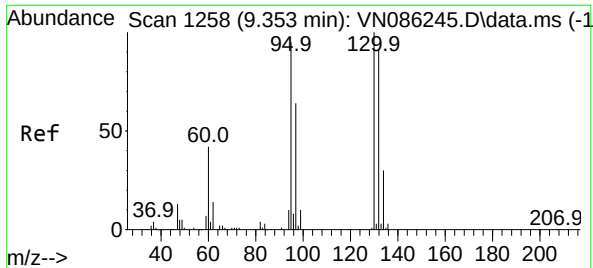
Tgt Ion: 62 Resp: 79625

Ion Ratio Lower Upper

62 100

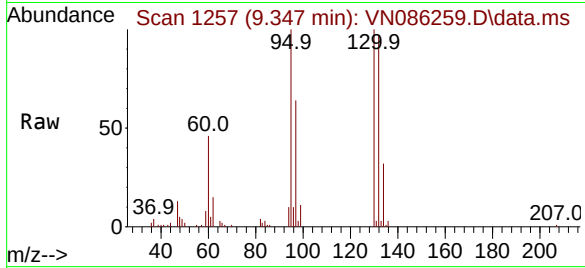
98 9.6 8.6 12.8





#37
Trichloroethene
Concen: 20.246 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

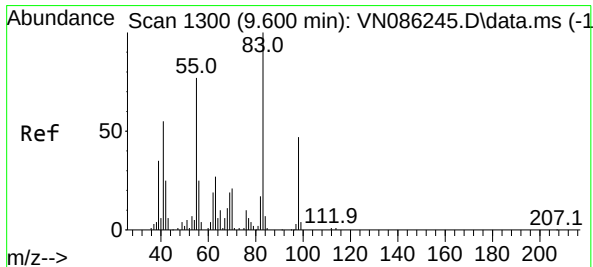
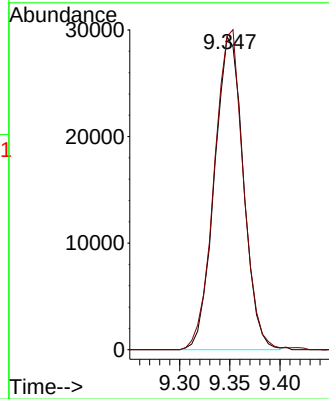
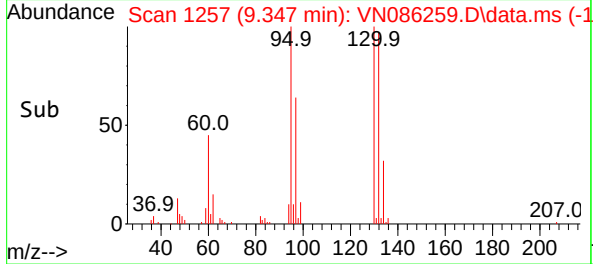
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion:130 Resp: 5906
Ion Ratio Lower Upper
130 100
95 100.2 76.4 114.6

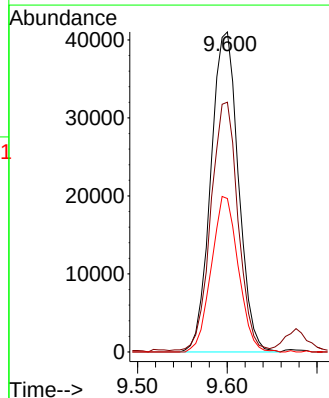
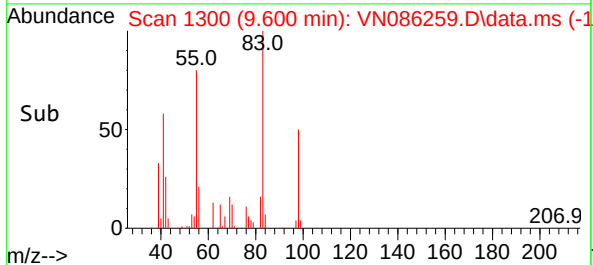
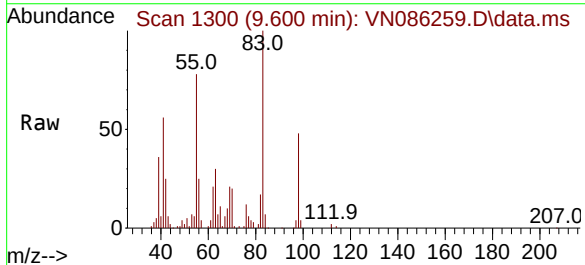
Manual Integrations
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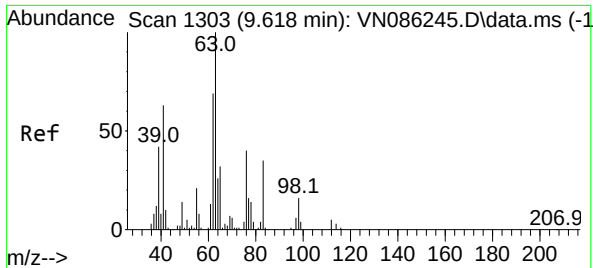
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#38
Methylcyclohexane
Concen: 18.796 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion: 83 Resp: 87606
Ion Ratio Lower Upper
83 100
55 76.3 38.5 115.5
98 47.5 24.4 73.2





#39

1,2-Dichloropropane

Concen: 20.550 ug/l

RT: 9.618 min Scan# 1303

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

Tgt Ion: 63 Resp: 6182

Ion Ratio Lower Upper

63 100

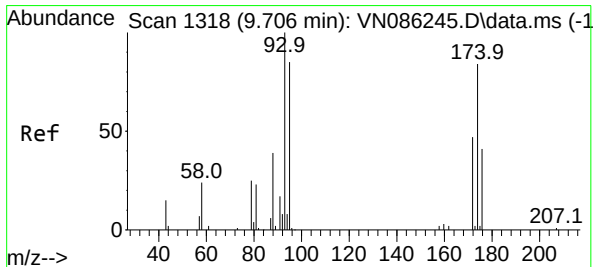
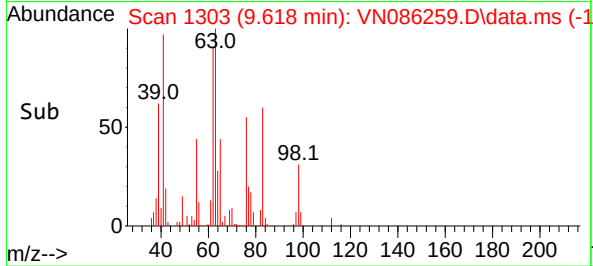
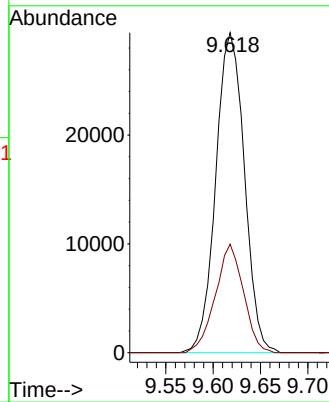
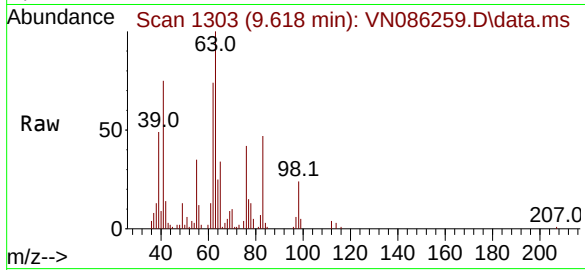
65 33.9 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#40

Dibromomethane

Concen: 20.905 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

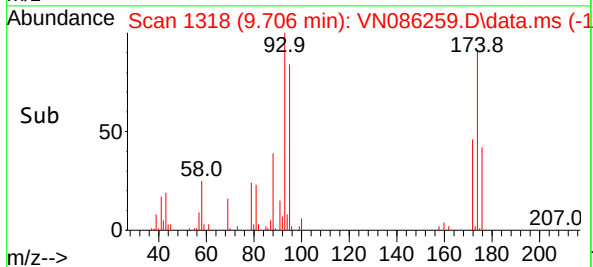
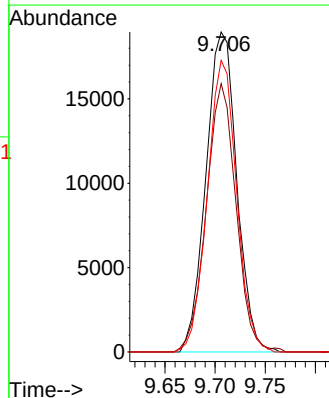
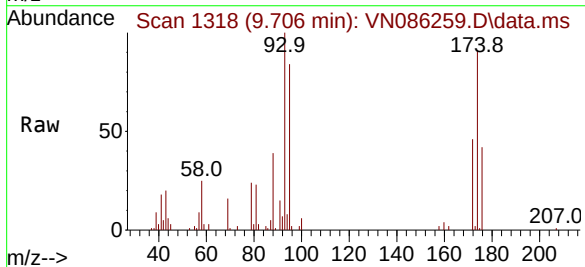
Tgt Ion: 93 Resp: 40620

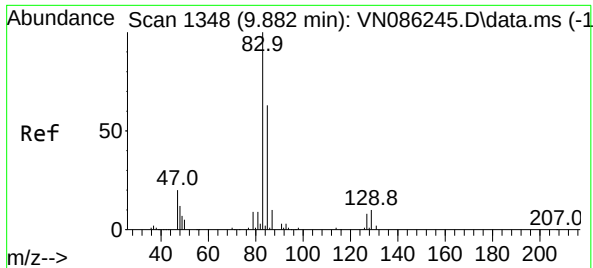
Ion Ratio Lower Upper

93 100

95 80.4 0.0 169.0

174 86.6 0.0 168.0





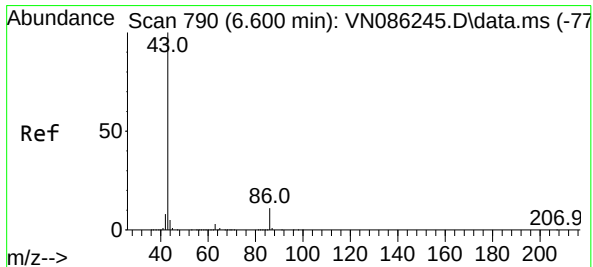
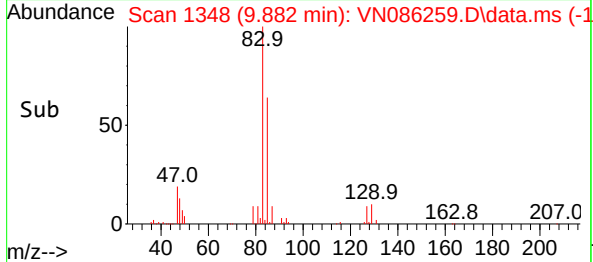
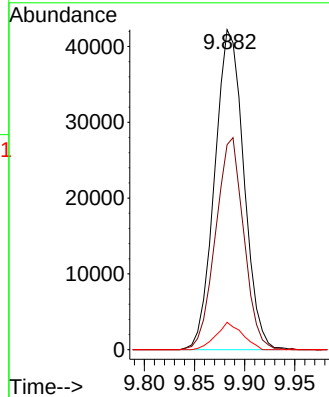
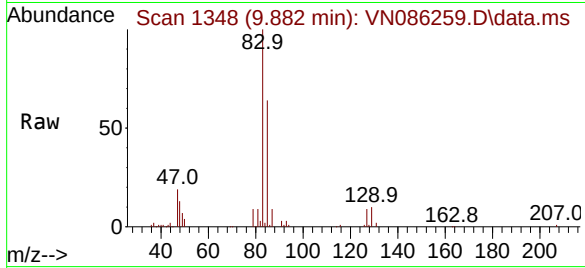
#41
Bromodichloromethane
Concen: 20.431 ug/l
RT: 9.882 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Tgt Ion: 83 Resp: 8528
Ion Ratio Lower Upper
83 100
85 64.1 50.2 75.2
127 8.6 6.2 9.4

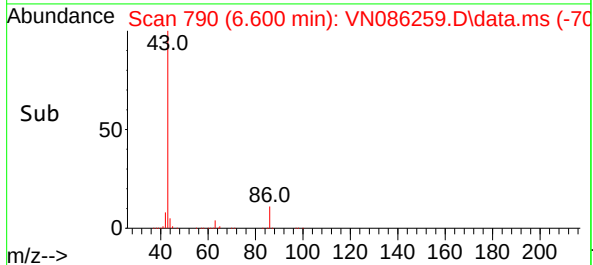
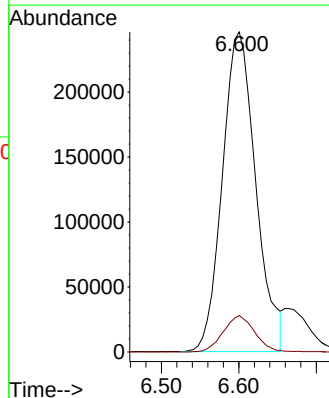
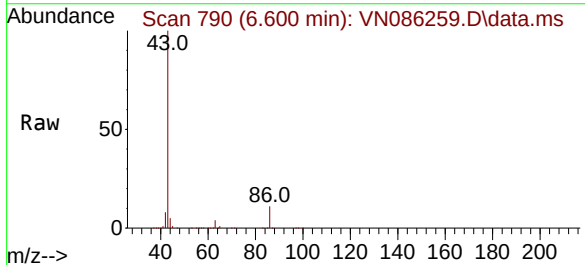
Manual Integrations
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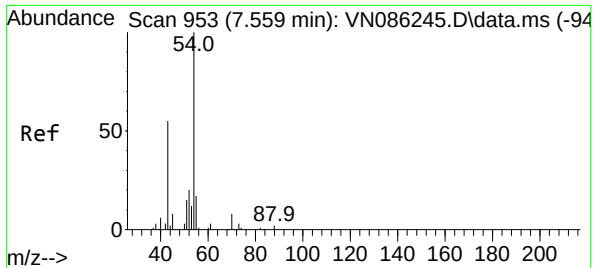
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#42
Vinyl Acetate
Concen: 103.000 ug/l
RT: 6.600 min Scan# 790
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion: 43 Resp: 738325
Ion Ratio Lower Upper
43 100
86 10.7 8.4 12.6





#43

Ethyl Acetate

Concen: 20.390 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

Tgt Ion: 43 Resp: 86600

Ion Ratio Lower Upper

43 100

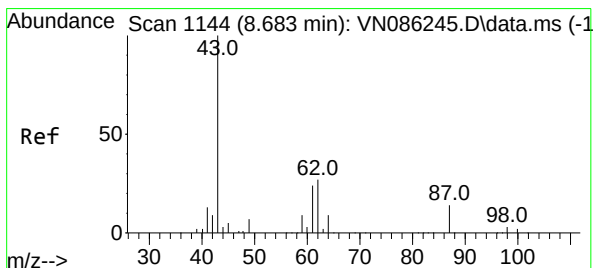
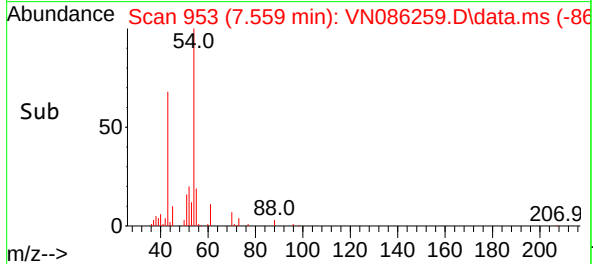
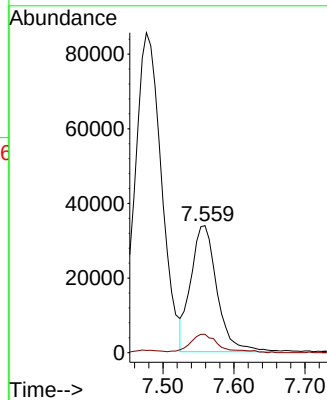
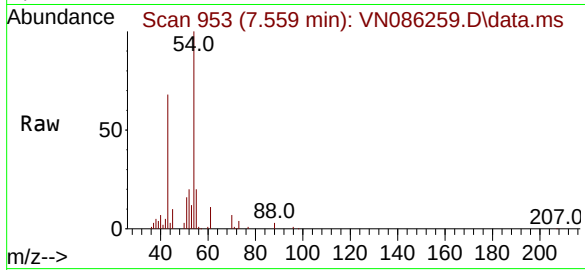
45 15.2 11.2 16.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#44

Isopropyl Acetate

Concen: 19.868 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.000 min

Lab File: VN086259.D

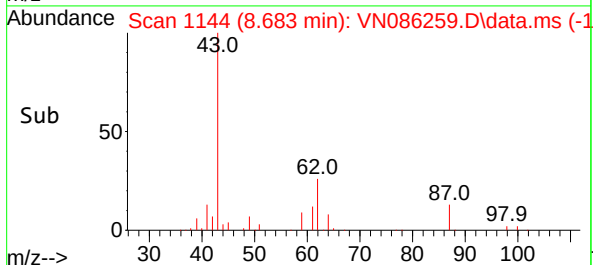
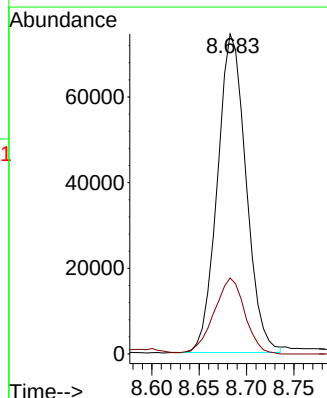
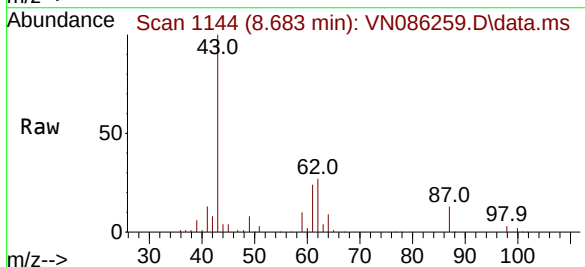
Acq: 14 Apr 2025 11:03

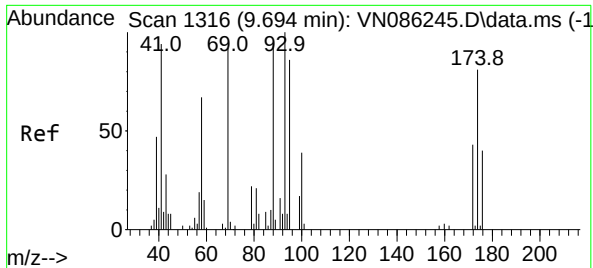
Tgt Ion: 43 Resp: 156559

Ion Ratio Lower Upper

43 100

61 25.8 20.5 30.7





#45

1,4-Dioxane

Concen: 423.818 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

Tgt Ion: 88 Resp: 26550

Ion Ratio Lower Upper

88 100

43 27.2 14.4 21.6

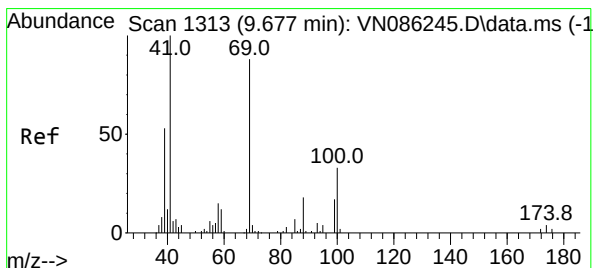
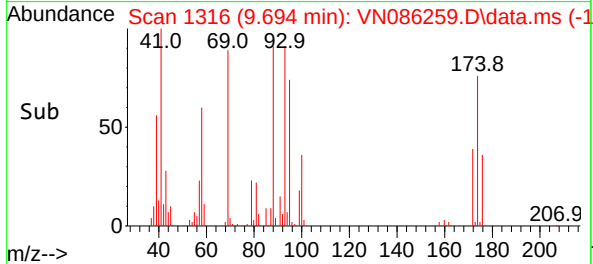
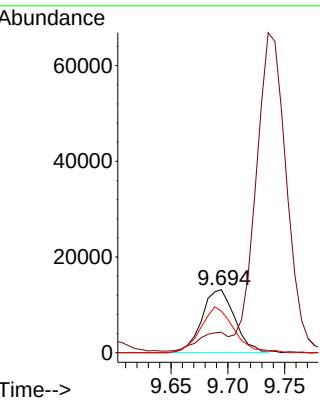
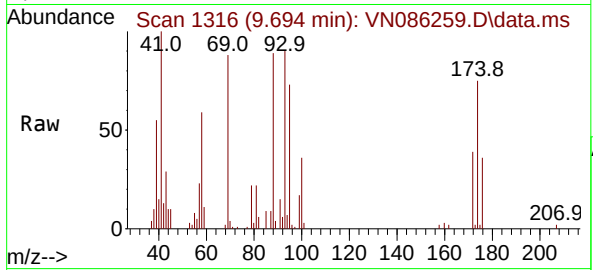
58 73.3 59.8 89.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#46

Methyl methacrylate

Concen: 20.434 ug/l

RT: 9.677 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

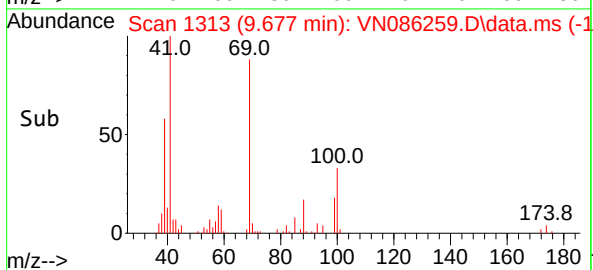
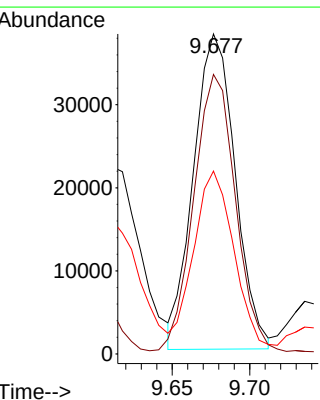
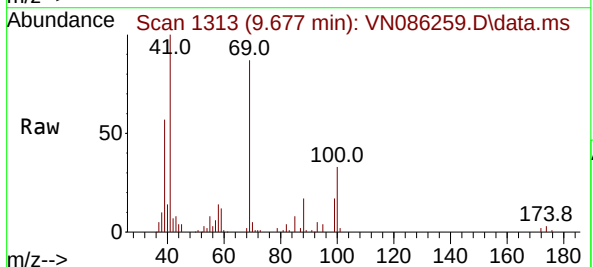
Tgt Ion: 41 Resp: 70947

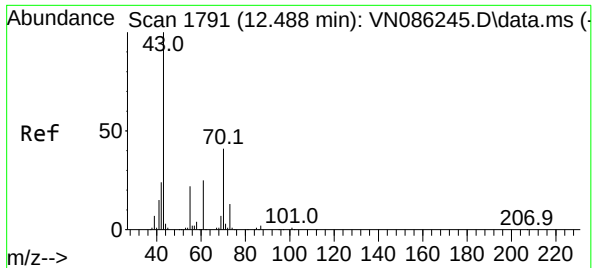
Ion Ratio Lower Upper

41 100

69 88.9 43.2 129.6

39 57.0 26.4 79.0





#47

n-amy1 Acetate

Concen: 19.779 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

Tgt Ion: 43 Resp: 123569

Ion Ratio Lower Upper

43 100

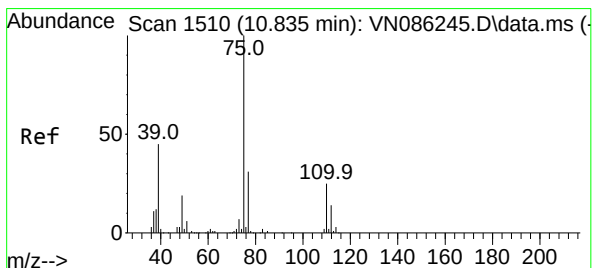
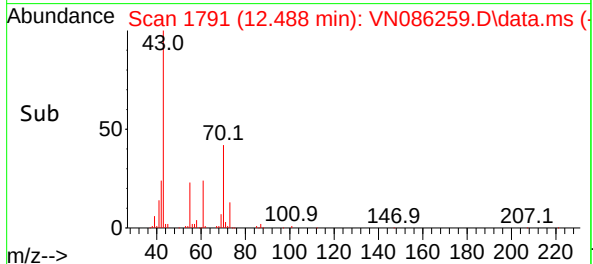
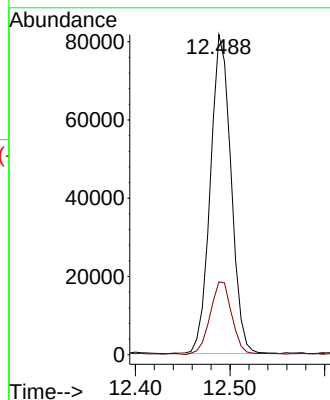
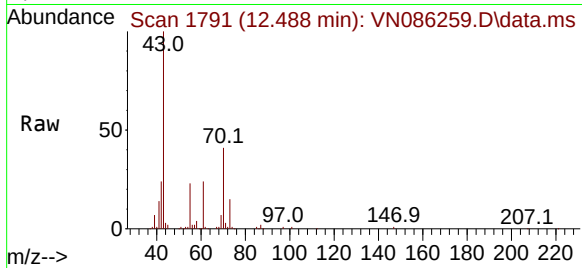
55 24.4 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#48

t-1,3-Dichloropropene

Concen: 20.344 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN086259.D

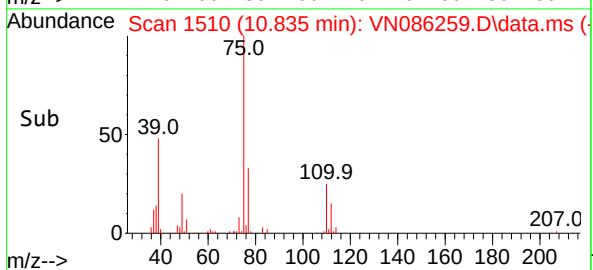
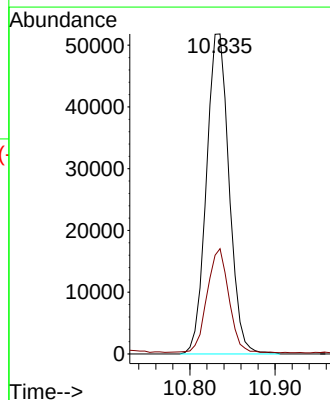
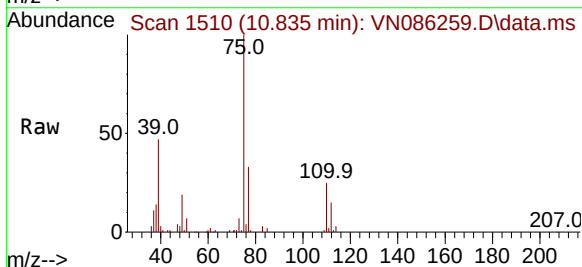
Acq: 14 Apr 2025 11:03

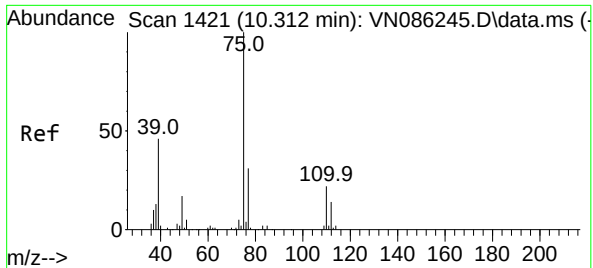
Tgt Ion: 75 Resp: 96008

Ion Ratio Lower Upper

75 100

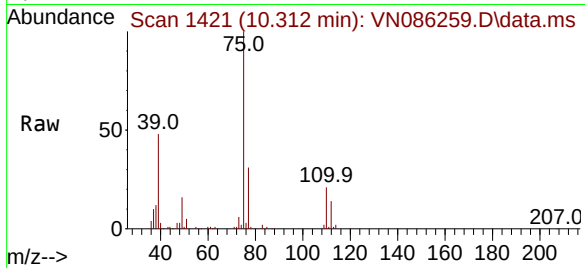
77 32.5 25.1 37.7





#49
cis-1,3-Dichloropropene
Concen: 20.829 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

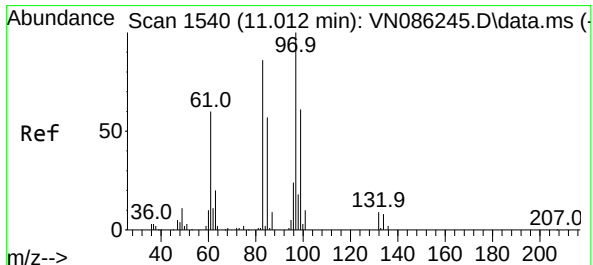
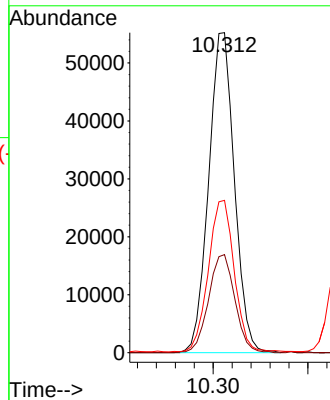
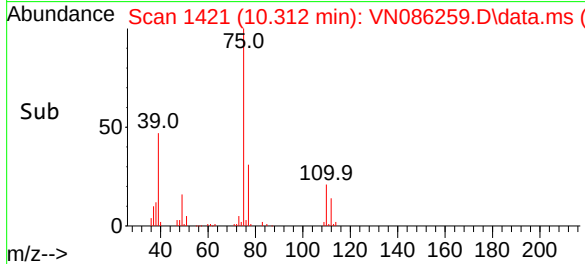
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion: 75 Resp: 104035
Ion Ratio Lower Upper
75 100
77 30.7 25.0 37.4
39 47.3 36.7 55.1

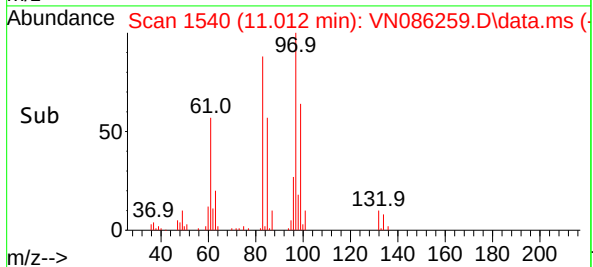
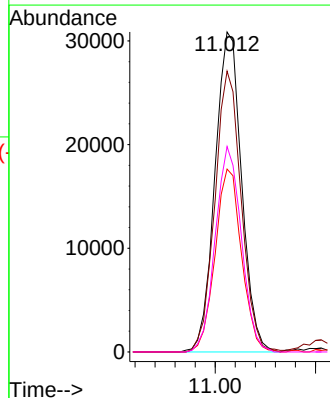
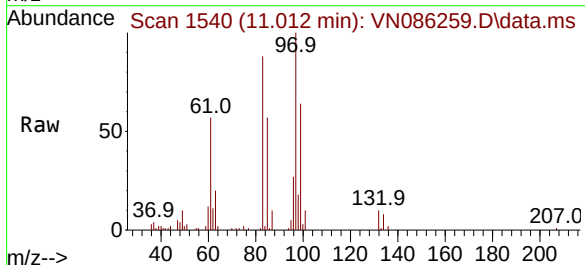
Manual Integrations
APPROVED

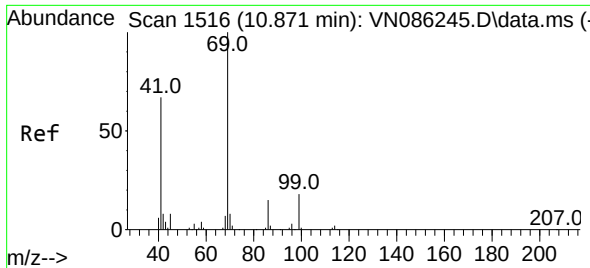
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#50
1,1,2-Trichloroethane
Concen: 20.837 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

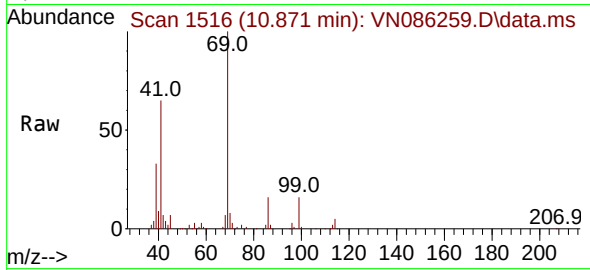
Tgt Ion: 97 Resp: 56786
Ion Ratio Lower Upper
97 100
83 87.8 68.6 103.0
85 57.2 45.9 68.9
99 64.2 48.6 73.0





#51
Ethyl methacrylate
Concen: 20.888 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

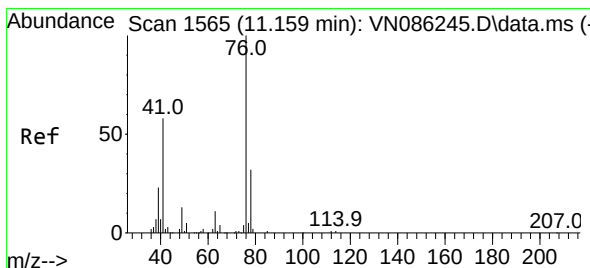
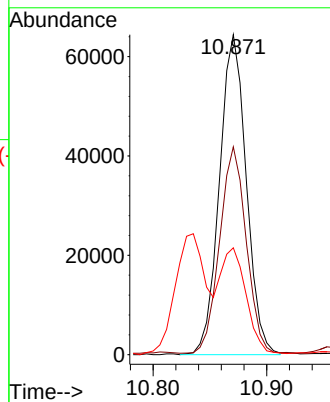
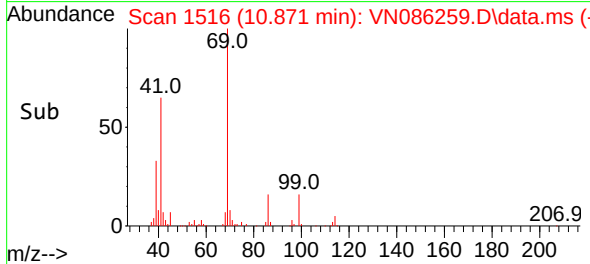
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion: 69 Resp: 105789
Ion Ratio Lower Upper
69 100
41 64.5 33.6 100.6
39 32.9 17.8 53.4

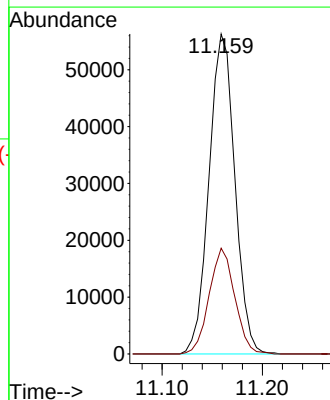
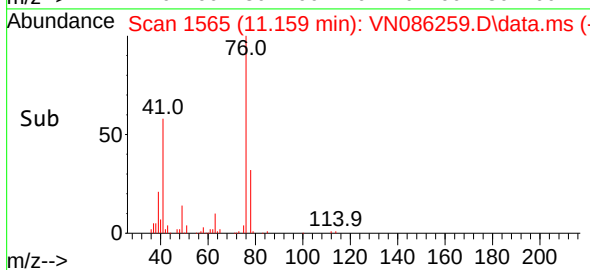
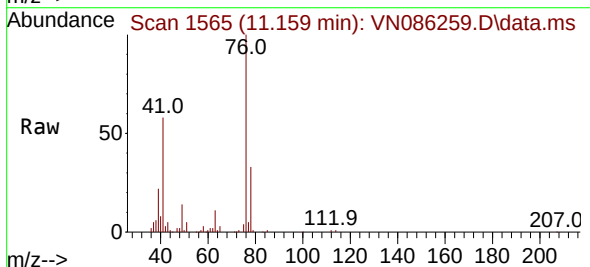
Manual Integrations
APPROVED

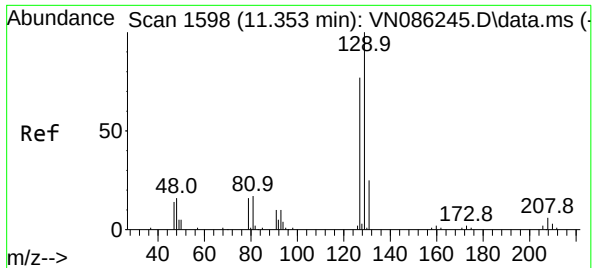
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#52
1,3-Dichloropropane
Concen: 20.787 ug/l
RT: 11.159 min Scan# 1565
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

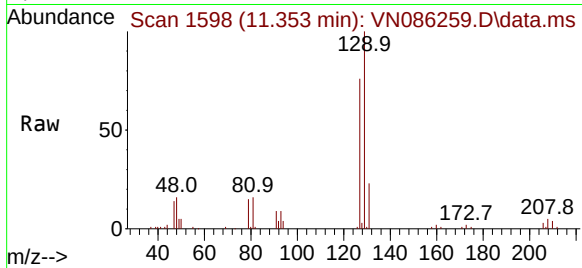
Tgt Ion: 76 Resp: 100971
Ion Ratio Lower Upper
76 100
78 32.6 0.0 64.6





#53
Dibromochloromethane
Concen: 20.887 ug/l
RT: 11.353 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

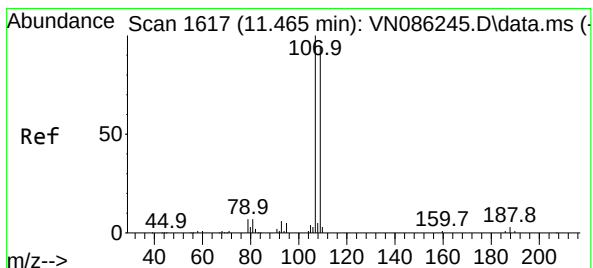
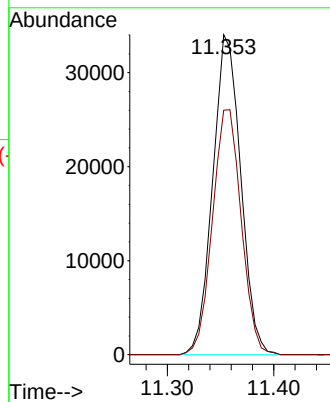
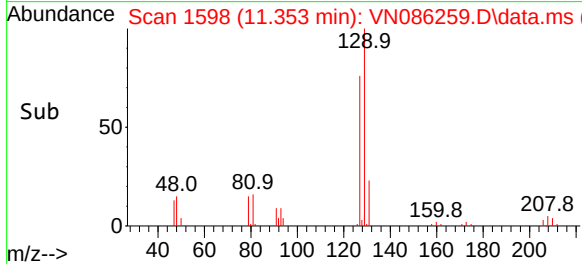
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



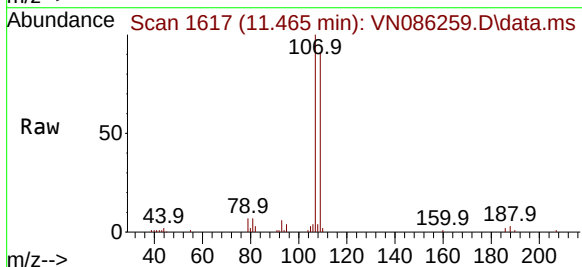
Tgt Ion:129 Resp: 6226
Ion Ratio Lower Upper
129 100
127 78.5 38.5 115.5

Manual Integrations
APPROVED

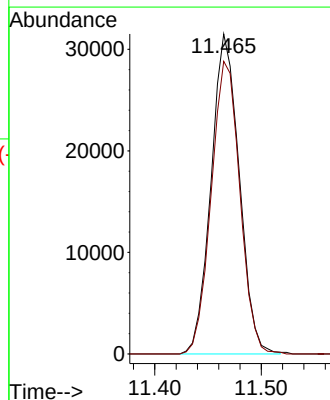
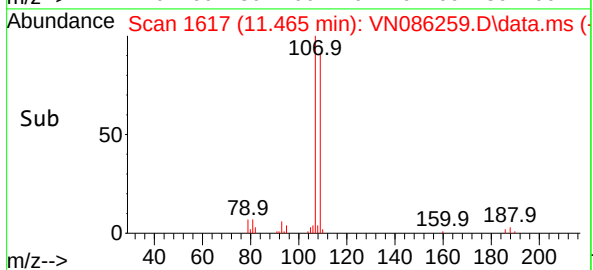
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

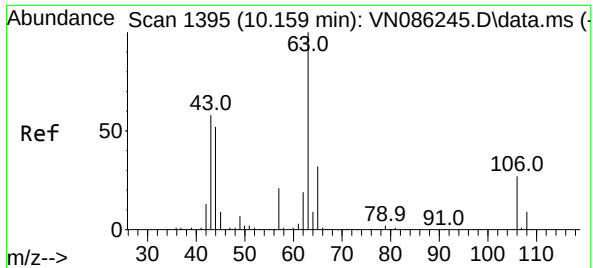


#54
1,2-Dibromoethane
Concen: 20.995 ug/l
RT: 11.465 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03



Tgt Ion:107 Resp: 57757
Ion Ratio Lower Upper
107 100
109 93.1 75.2 112.8





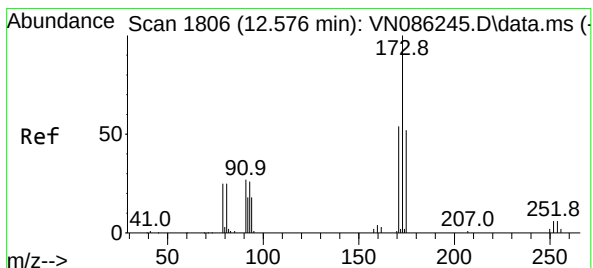
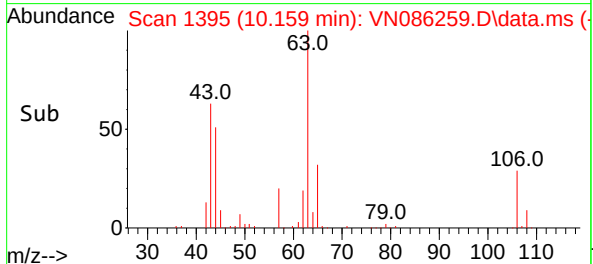
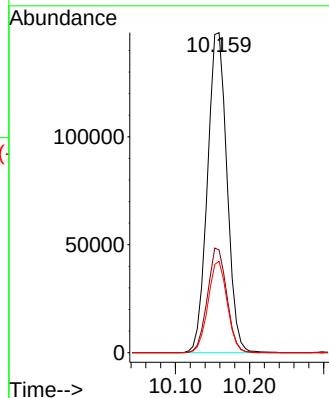
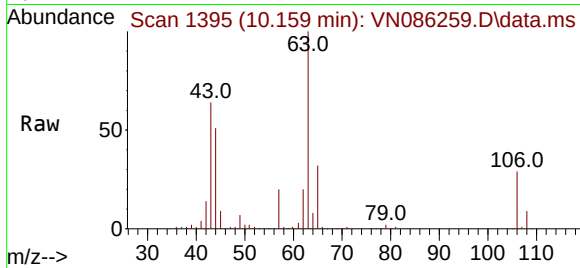
#55
2-Chloroethyl vinyl ether
Concen: 141.822 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Tgt Ion: 63 Resp: 27140
Ion Ratio Lower Upper
63 100
65 32.3 25.8 38.8
106 28.0 21.8 32.8

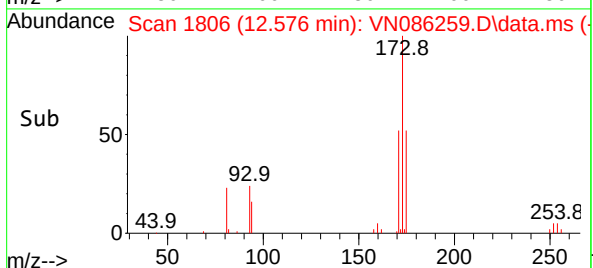
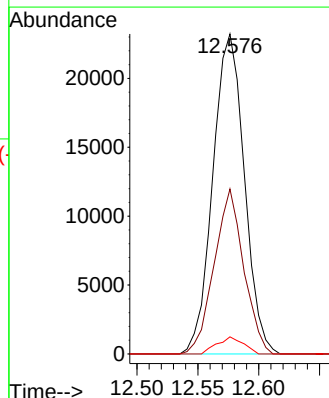
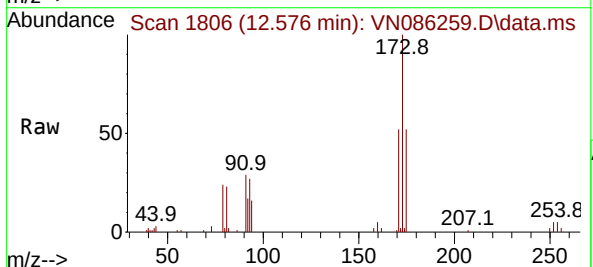
Manual Integrations
APPROVED

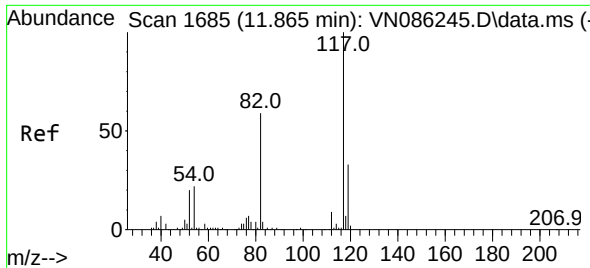
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#56
Bromoform
Concen: 21.423 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

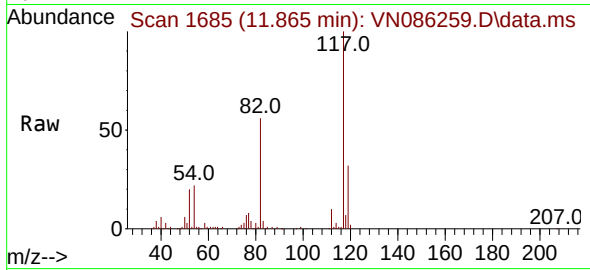
Tgt Ion:173 Resp: 41780
Ion Ratio Lower Upper
173 100
175 48.3 38.2 57.4
254 4.5 4.5 6.7#





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

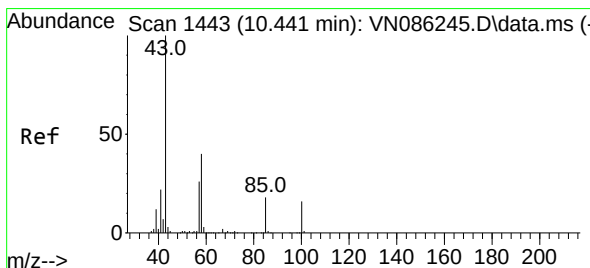
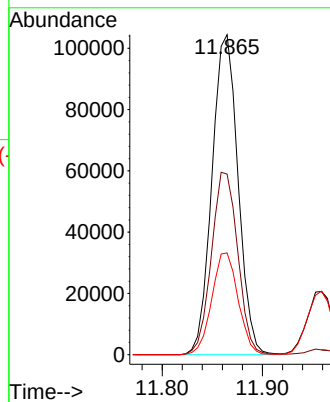
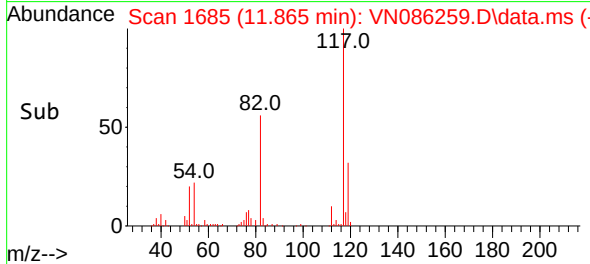
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion: 117 Resp: 188770
Ion Ratio Lower Upper
117 100
82 57.7 47.3 70.9
119 32.1 25.9 38.9

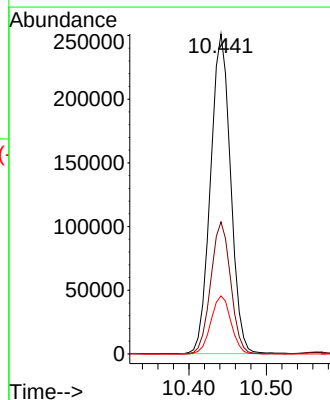
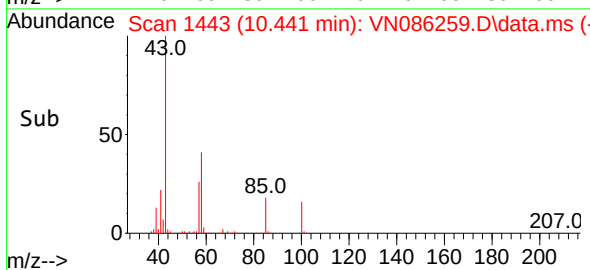
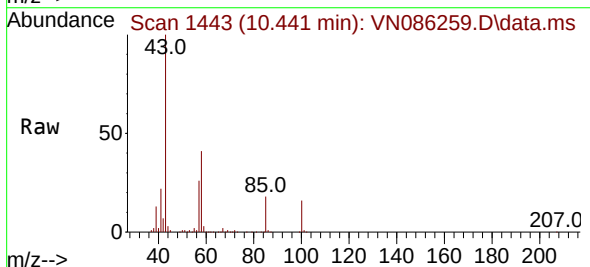
Manual Integrations
APPROVED

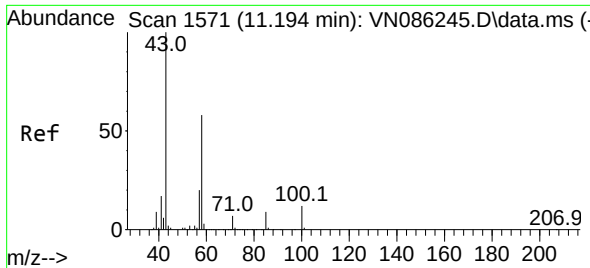
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#58
4-Methyl-2-Pentanone
Concen: 105.268 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

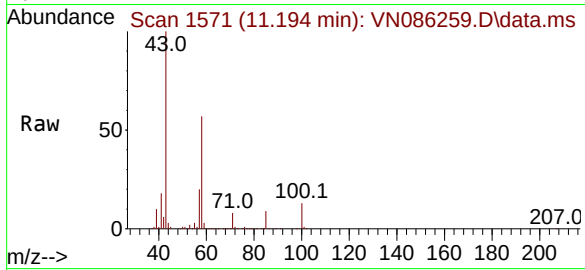
Tgt Ion: 43 Resp: 450944
Ion Ratio Lower Upper
43 100
58 41.0 32.5 48.7
85 18.2 14.4 21.6





#59
2-Hexanone
Concen: 104.040 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

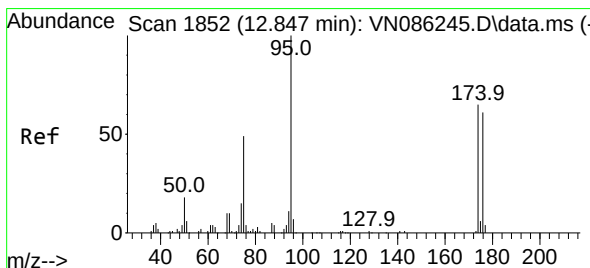
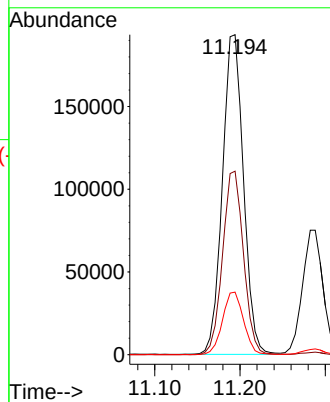
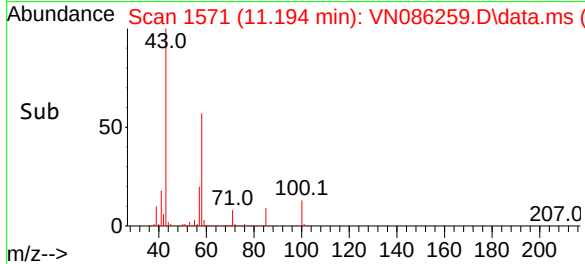
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion: 43 Resp: 331870
Ion Ratio Lower Upper
43 100
58 57.1 45.3 67.9
57 19.7 15.8 23.6

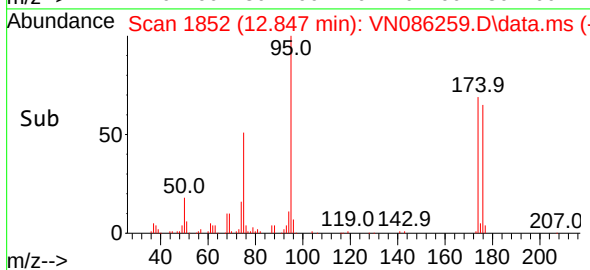
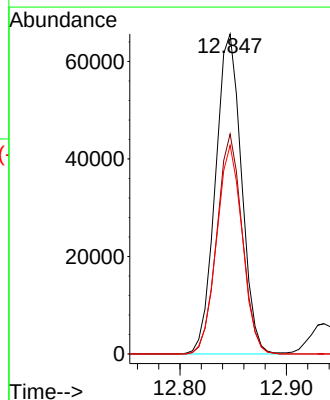
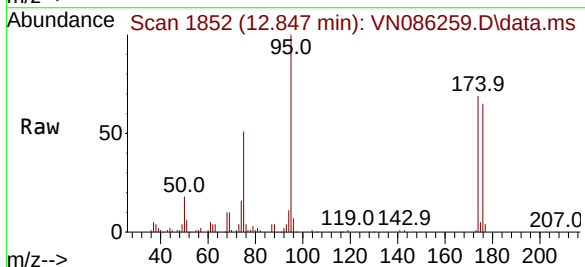
Manual Integrations
APPROVED

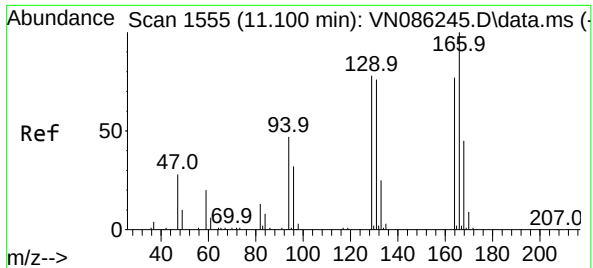
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#60
4-Bromofluorobenzene
Concen: 29.647 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

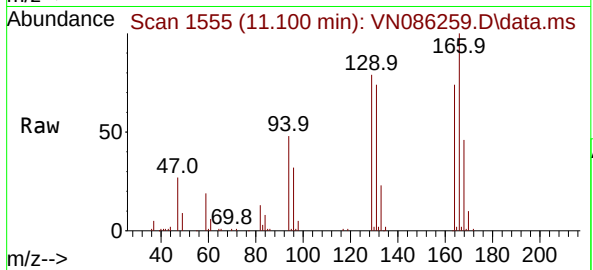
Tgt Ion: 95 Resp: 111425
Ion Ratio Lower Upper
95 100
174 66.7 52.7 79.1
176 64.4 49.8 74.8





#61
Tetrachloroethene
Concen: 20.769 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

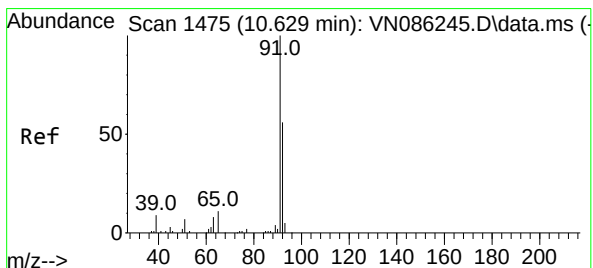
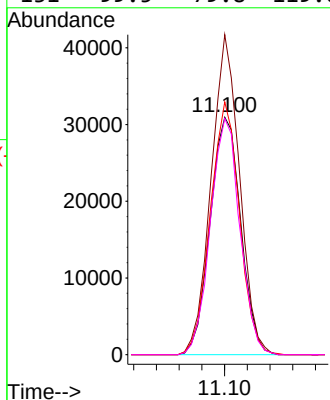
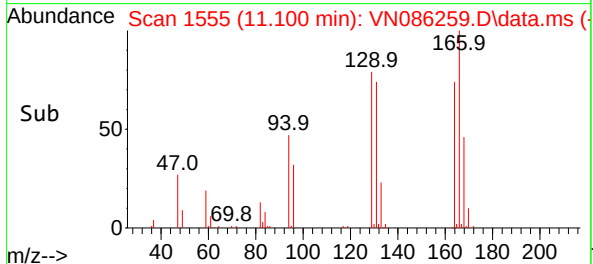
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion:164 Resp: 5789
Ion Ratio Lower Upper
164 100
166 134.8 104.5 156.7
129 106.5 81.7 122.5
131 99.5 79.8 119.6

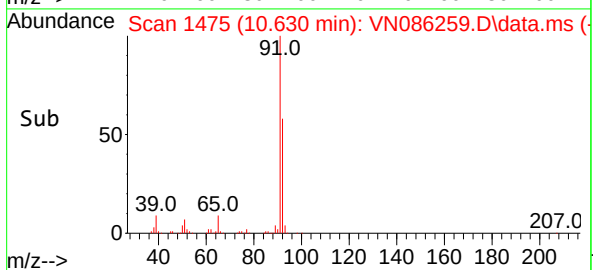
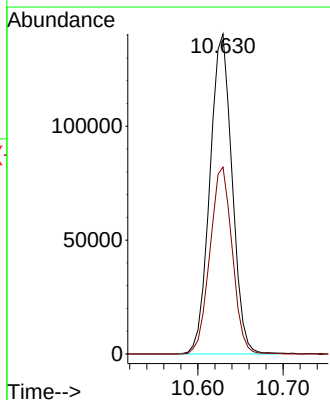
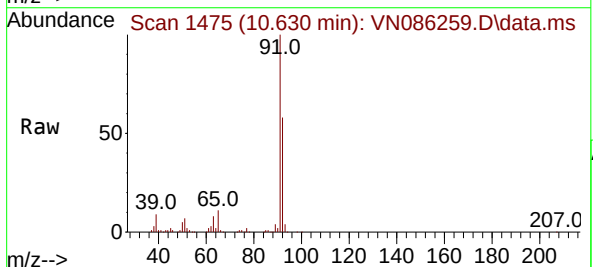
Manual Integrations
APPROVED

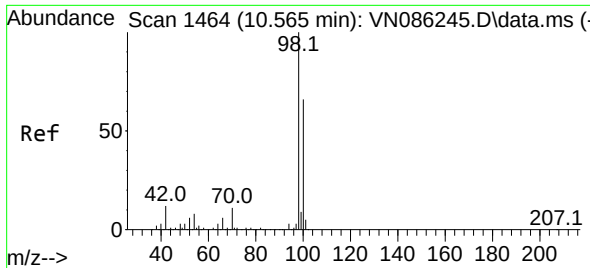
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#62
Toluene
Concen: 20.136 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

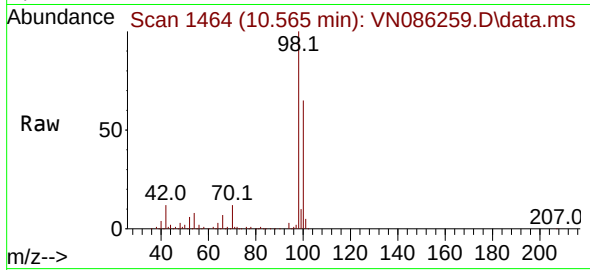
Tgt Ion: 91 Resp: 254946
Ion Ratio Lower Upper
91 100
92 58.7 46.8 70.2





#63
Toluene-d8
Concen: 29.884 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

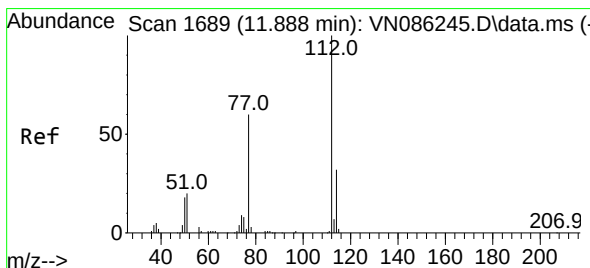
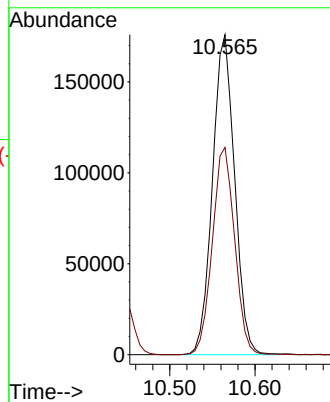
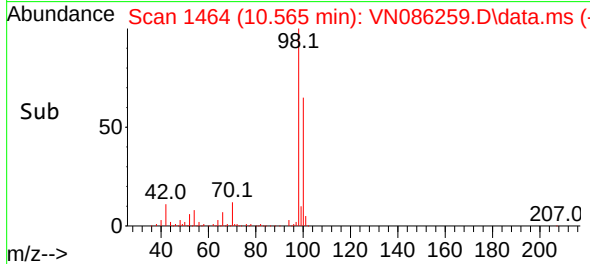
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion: 98 Resp: 31848
Ion Ratio Lower Upper
98 100
100 65.2 52.3 78.5

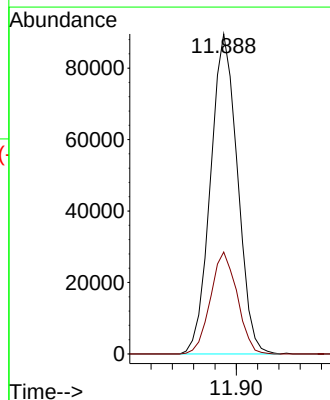
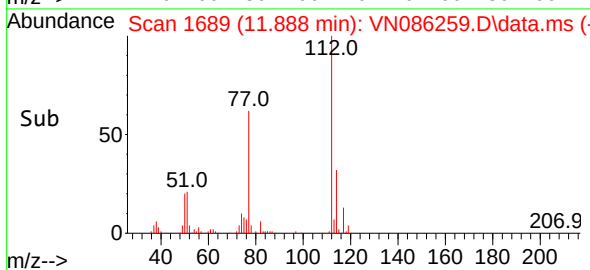
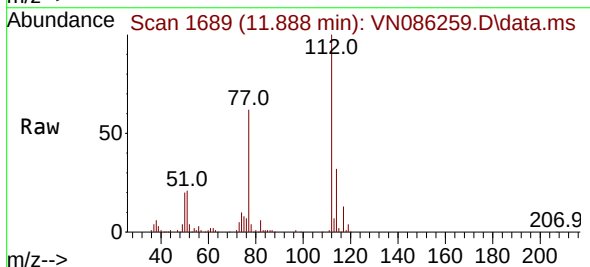
Manual Integrations
APPROVED

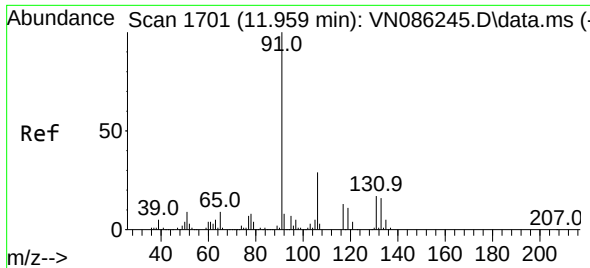
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#64
Chlorobenzene
Concen: 20.334 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

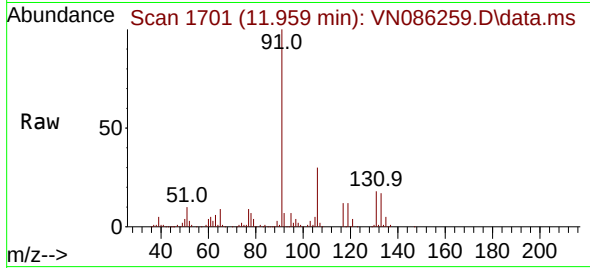
Tgt Ion:112 Resp: 157296
Ion Ratio Lower Upper
112 100
114 31.9 25.8 38.6





#65
1,1,1,2-Tetrachloroethane
Concen: 21.115 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

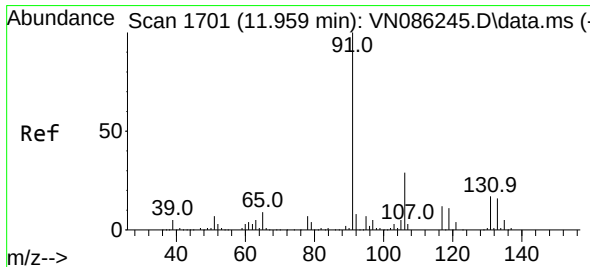
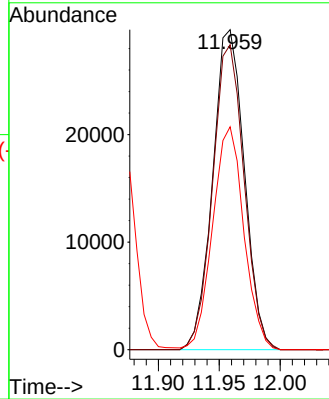
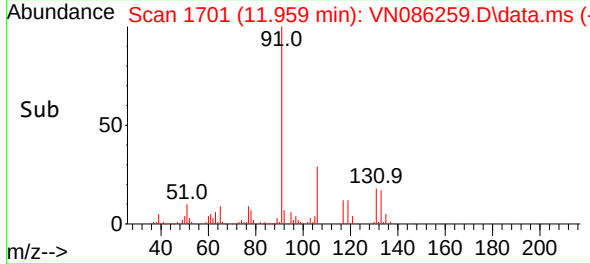
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.6	0.0	190.4
119	68.5	0.0	135.6

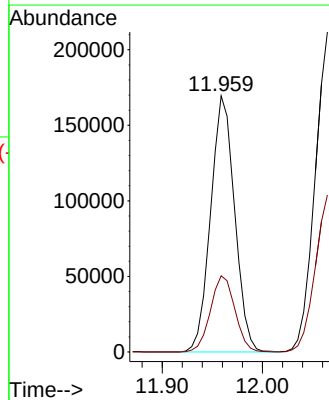
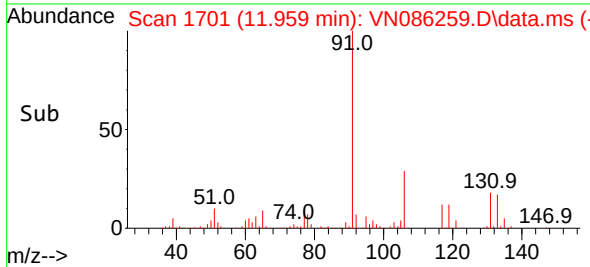
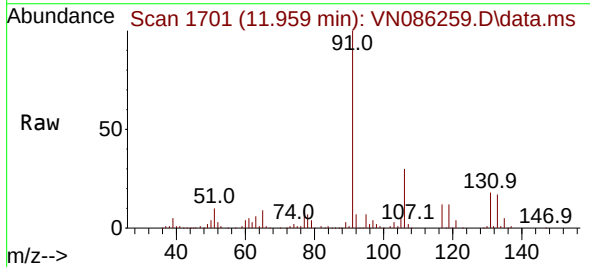
Manual Integrations
APPROVED

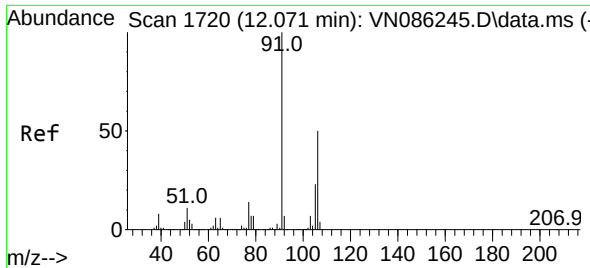
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#66
Ethyl Benzene
Concen: 20.033 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.4	35.0





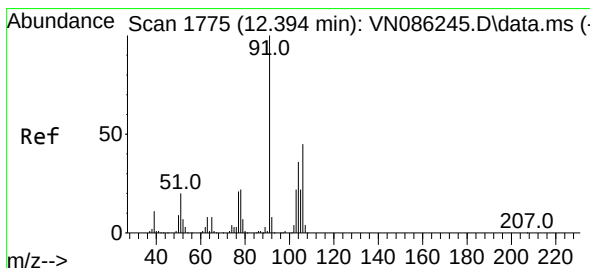
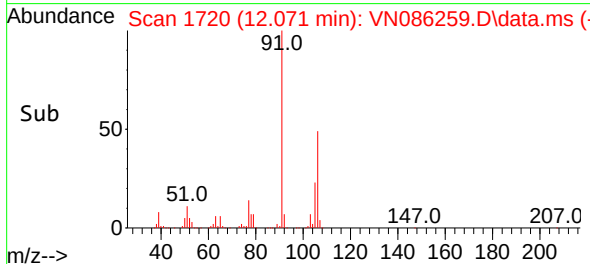
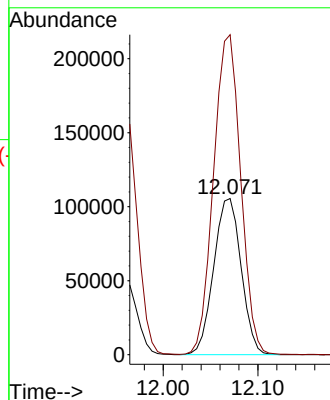
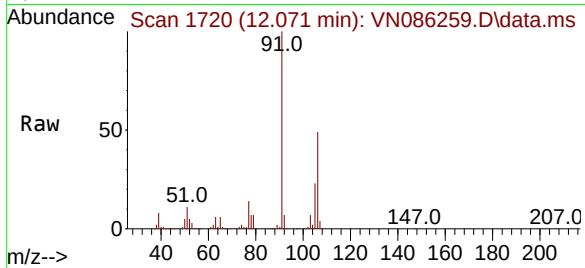
#67
m/p-Xylenes
Concen: 40.741 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Tgt Ion:106 Resp: 212715
Ion Ratio Lower Upper
106 100
91 202.8 164.5 246.7

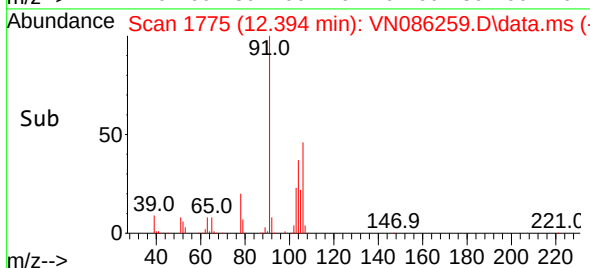
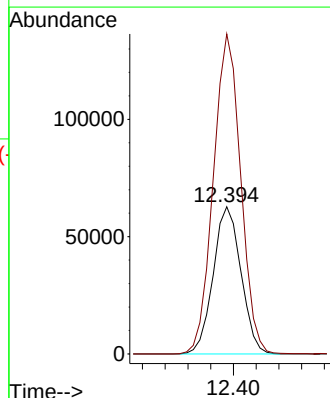
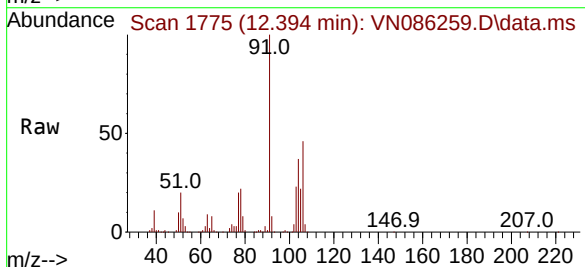
Manual Integrations
APPROVED

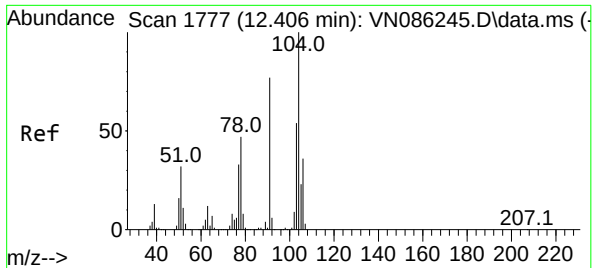
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#68
o-Xylene
Concen: 20.731 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion:106 Resp: 106466
Ion Ratio Lower Upper
106 100
91 214.3 109.8 329.4





#69

Styrene

Concen: 20.600 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

Tgt Ion:104 Resp: 178420

Ion Ratio Lower Upper

104 100

78 49.9 41.4 62.0

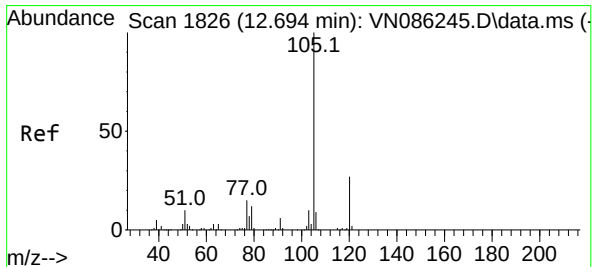
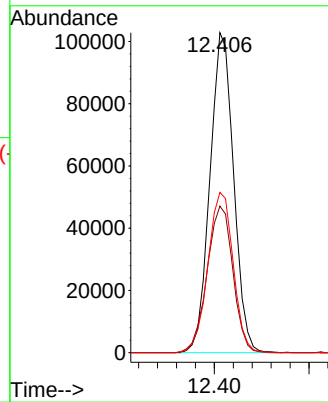
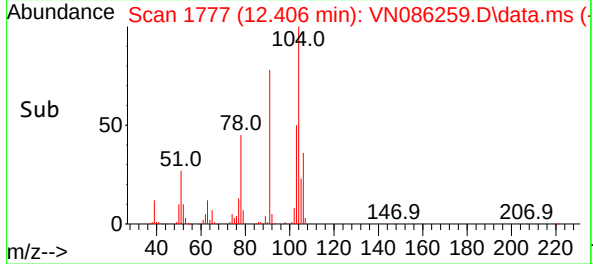
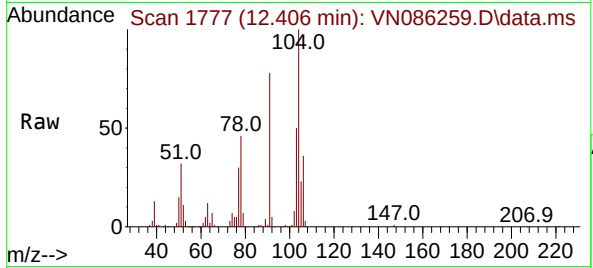
103 53.6 44.2 66.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#70

Isopropylbenzene

Concen: 20.204 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN086259.D

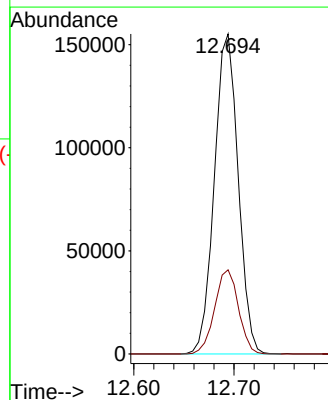
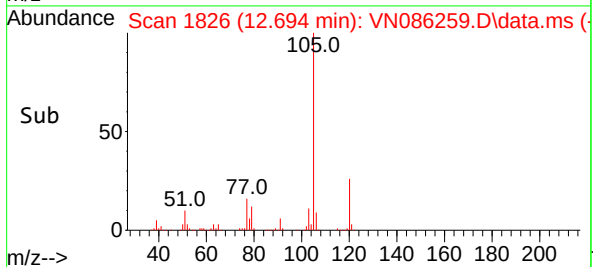
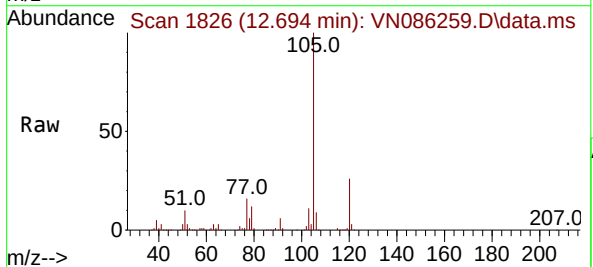
Acq: 14 Apr 2025 11:03

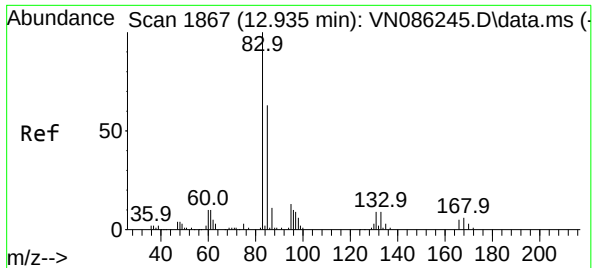
Tgt Ion:105 Resp: 255832

Ion Ratio Lower Upper

105 100

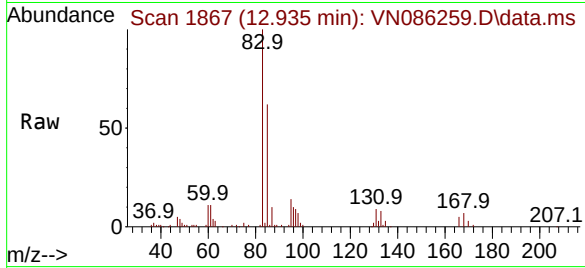
120 26.2 18.3 34.1





#71
1,1,2,2-Tetrachloroethane
Concen: 21.236 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

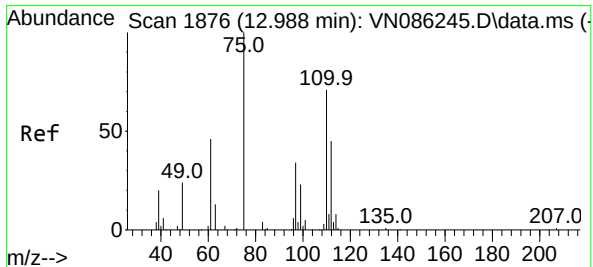
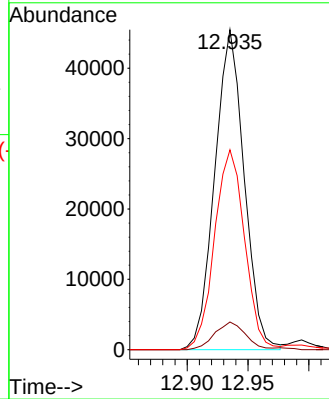
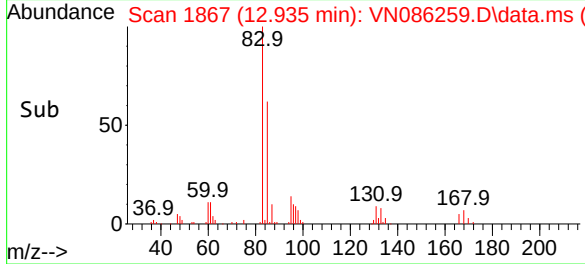
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion: 83 Resp: 76539
Ion Ratio Lower Upper
83 100
131 9.1 4.8 14.3
85 63.9 32.3 96.8

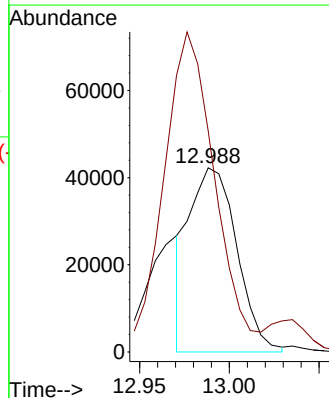
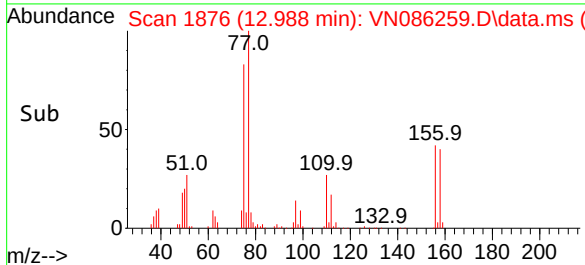
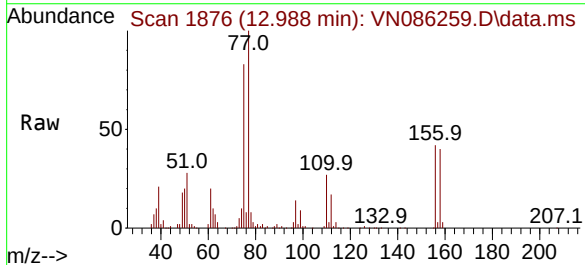
Manual Integrations
APPROVED

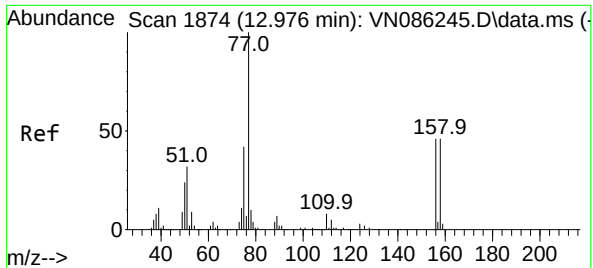
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#72
1,2,3-Trichloropropane
Concen: 20.737 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion: 75 Resp: 77799
Ion Ratio Lower Upper
75 100
77 187.1 0.0 380.0





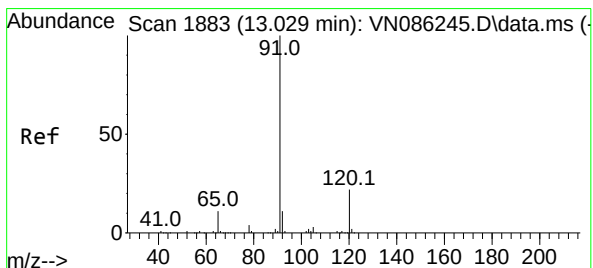
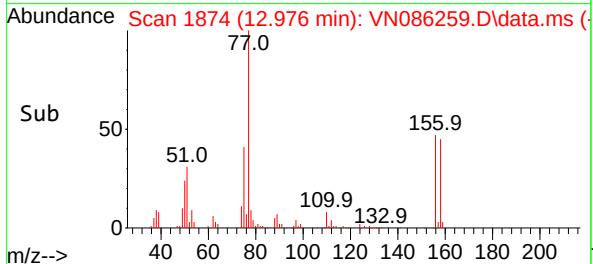
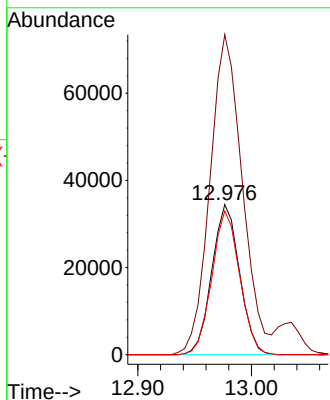
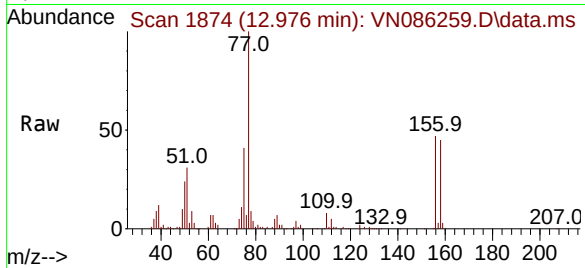
#73
Bromobenzene
Concen: 20.760 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Tgt Ion:156 Resp: 58234
Ion Ratio Lower Upper
156 100
77 250.0 0.0 505.2
158 96.3 0.0 195.0

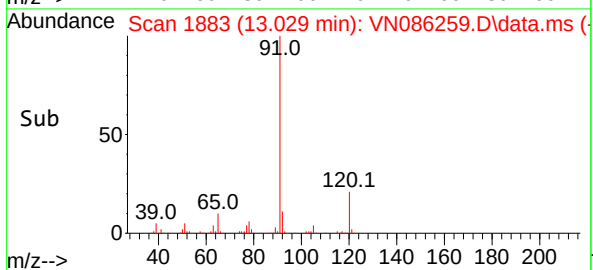
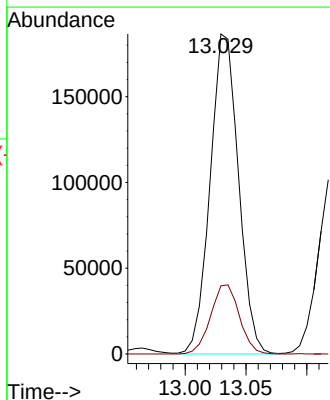
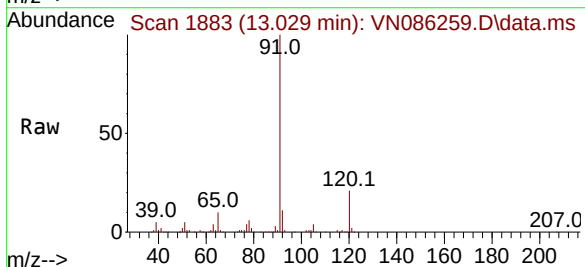
Manual Integrations
APPROVED

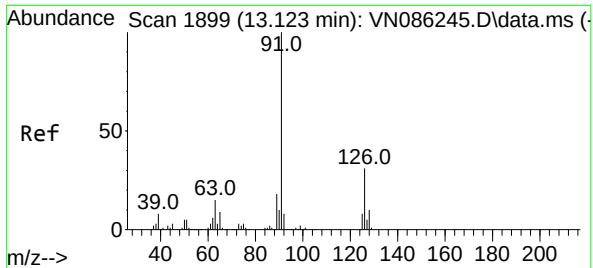
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#74
n-propylbenzene
Concen: 20.228 ug/l
RT: 13.029 min Scan# 1883
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion: 91 Resp: 302453
Ion Ratio Lower Upper
91 100
120 21.8 0.0 44.0





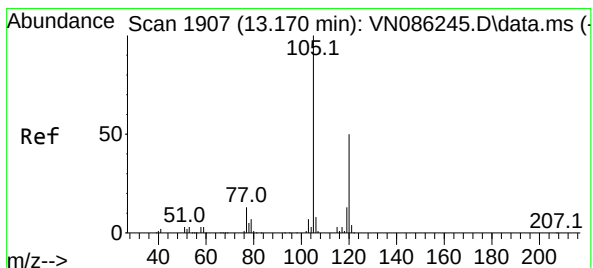
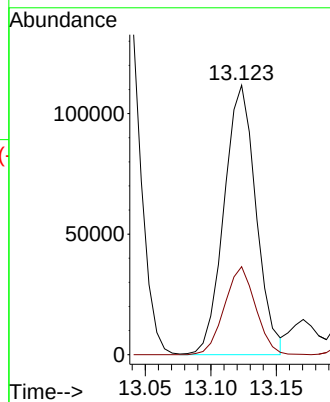
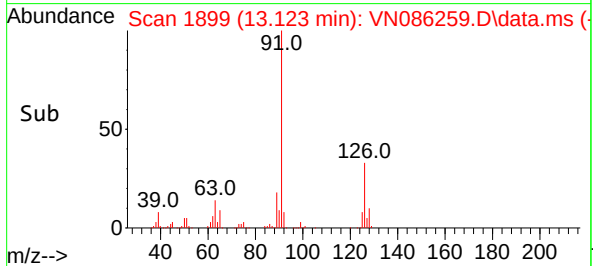
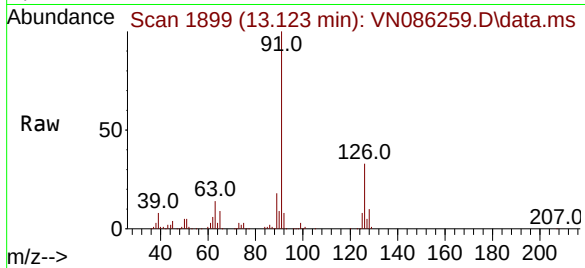
#75
2-Chlorotoluene
Concen: 20.222 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Tgt Ion: 91 Resp: 19005
Ion Ratio Lower Upper
91 100
126 31.7 0.0 63.4

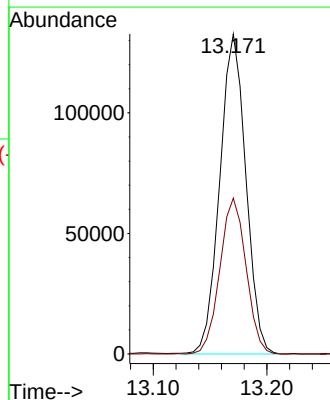
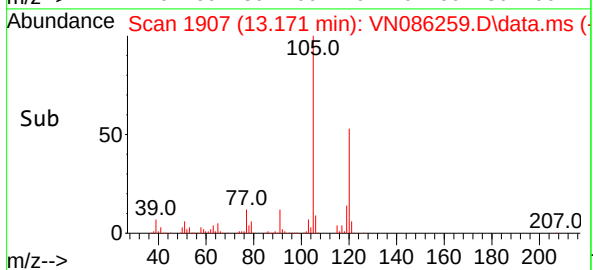
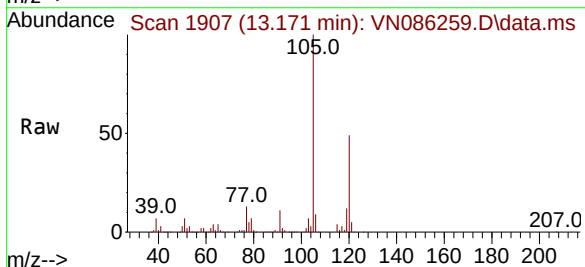
Manual Integrations
APPROVED

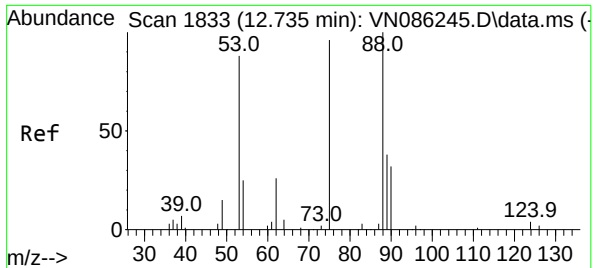
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#76
1,3,5-Trimethylbenzene
Concen: 20.362 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

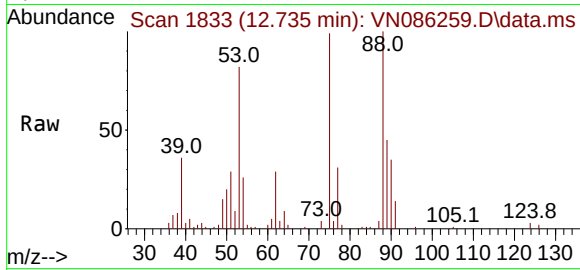
Tgt Ion:105 Resp: 211804
Ion Ratio Lower Upper
105 100
120 48.8 0.0 98.0





#77
t-1,4-Dichloro-2-butene
Concen: 20.593 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

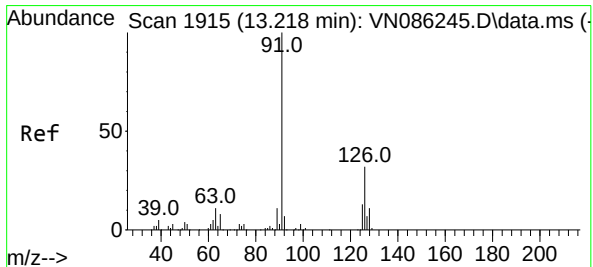
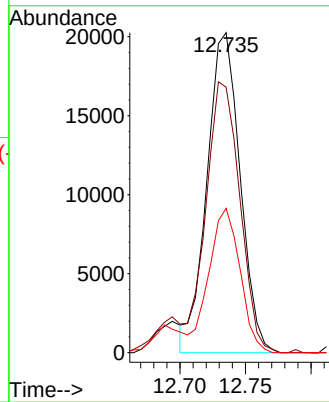
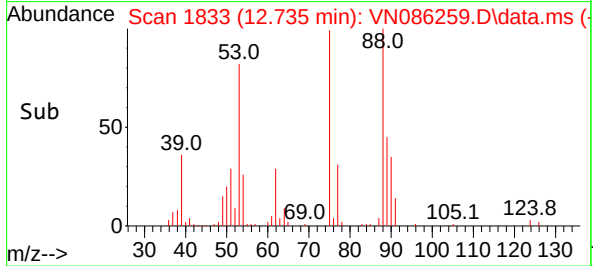
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion: 75 Resp: 35624
Ion Ratio Lower Upper
75 100
53 82.9 46.4 139.2
89 45.1 22.5 67.5

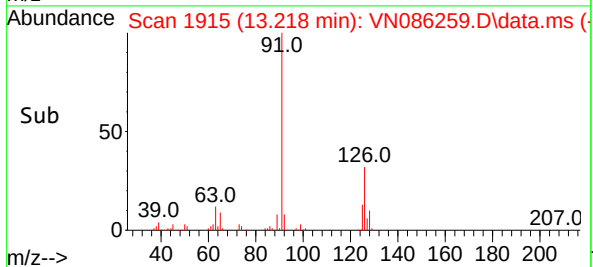
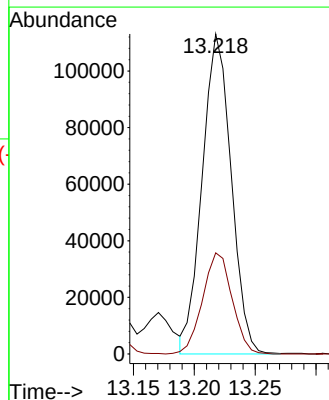
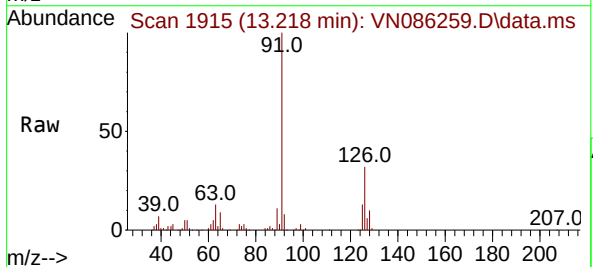
Manual Integrations
APPROVED

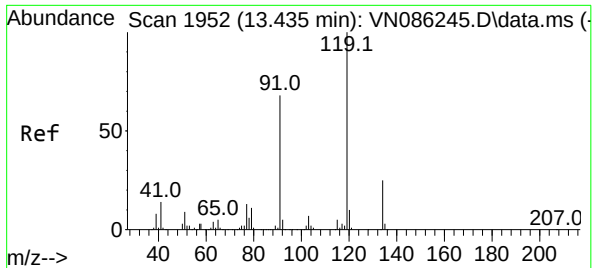
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#78
4-Chlorotoluene
Concen: 19.990 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion: 91 Resp: 187622
Ion Ratio Lower Upper
91 100
126 32.1 0.0 63.2





#79

tert-butylbenzene

Concen: 19.708 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

Tgt Ion:119 Resp: 177378

Ion Ratio Lower Upper

119 100

91 69.5 0.0 136.6

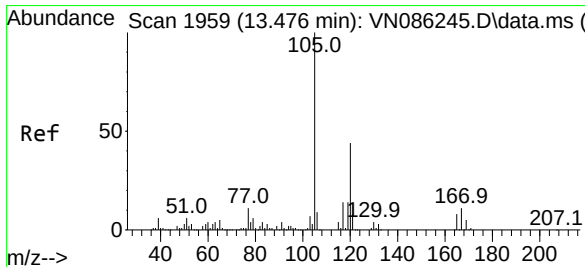
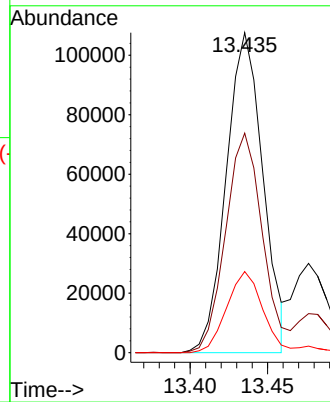
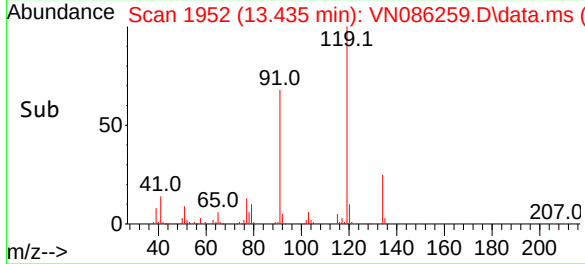
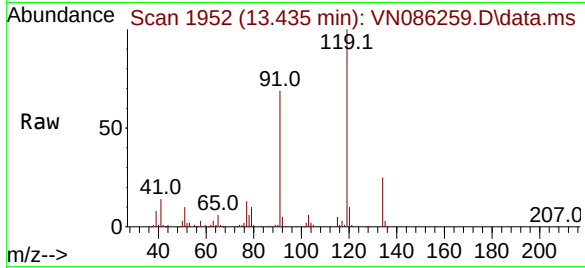
134 24.7 0.0 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#80

1,2,4-Trimethylbenzene

Concen: 20.364 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.000 min

Lab File: VN086259.D

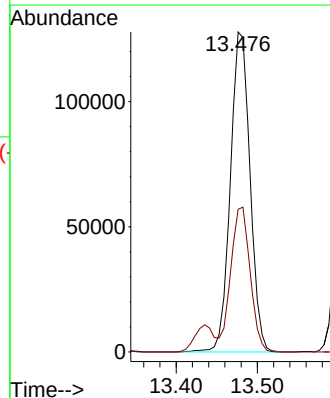
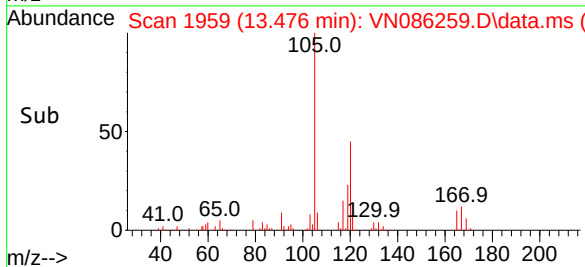
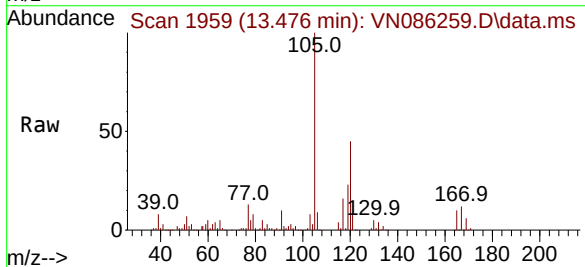
Acq: 14 Apr 2025 11:03

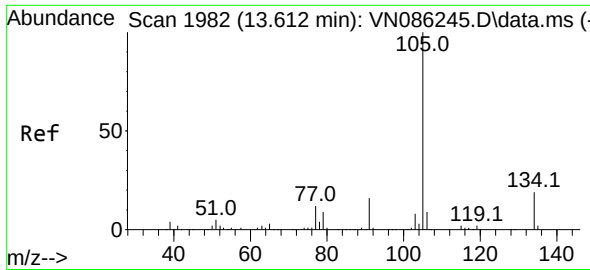
Tgt Ion:105 Resp: 214794

Ion Ratio Lower Upper

105 100

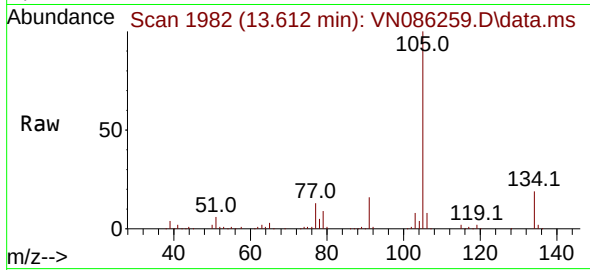
120 44.3 0.0 91.0





#81
 sec-Butylbenzene
 Concen: 19.764 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. 0.000 min
 Lab File: VN086259.D
 Acq: 14 Apr 2025 11:03

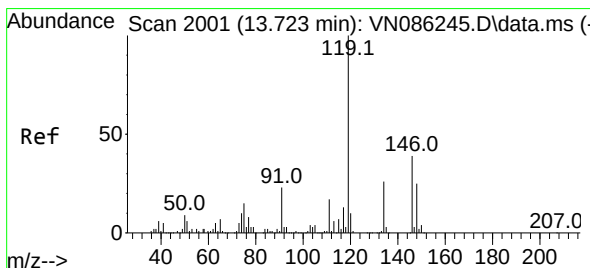
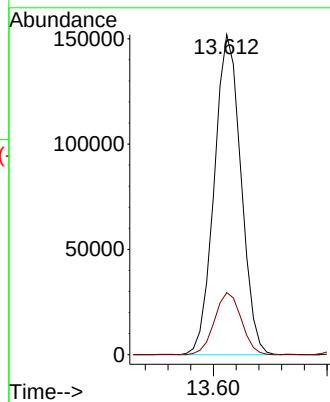
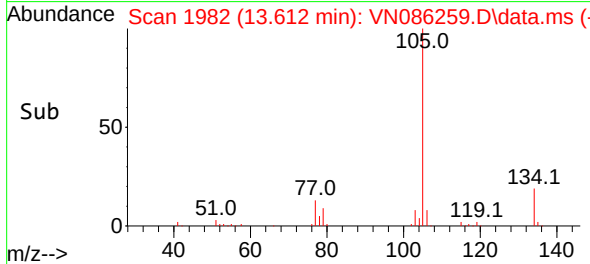
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0414WBSD01



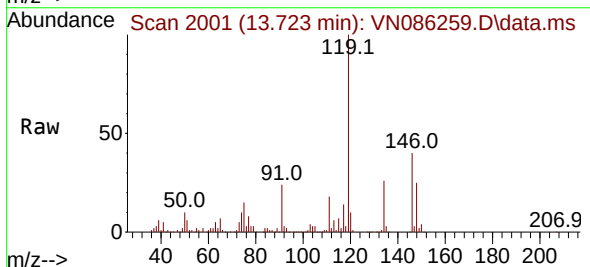
Tgt Ion:105 Resp: 24814
 Ion Ratio Lower Upper
 105 100
 134 19.5 0.0 38.6

Manual Integrations
 APPROVED

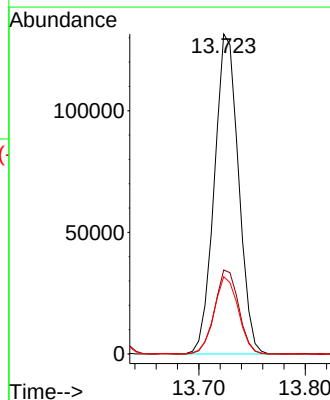
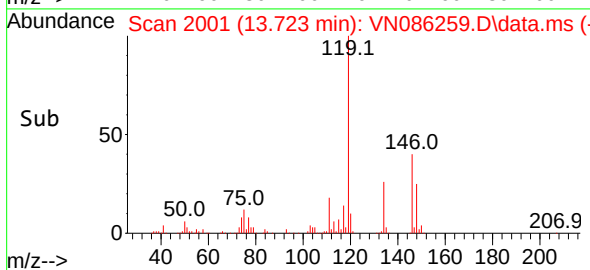
Reviewed By :John Carlone 04/16/2025
 Supervised By :Semsettin Yesilyurt 04/16/2025

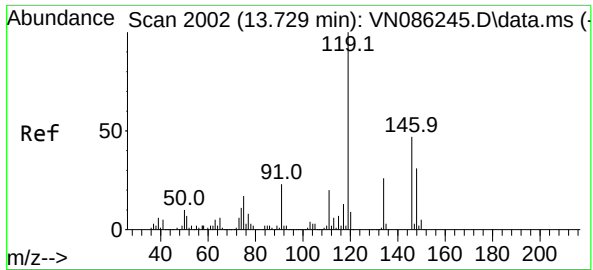


#82
 p-Isopropyltoluene
 Concen: 19.800 ug/l
 RT: 13.723 min Scan# 2001
 Delta R.T. 0.000 min
 Lab File: VN086259.D
 Acq: 14 Apr 2025 11:03



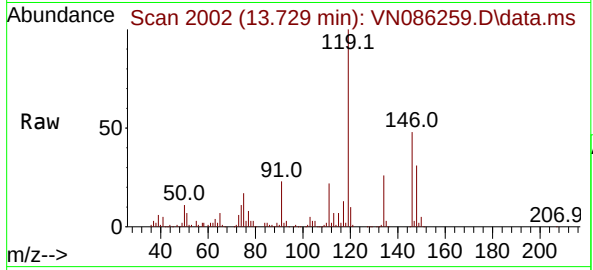
Tgt Ion:119 Resp: 207375
 Ion Ratio Lower Upper
 119 100
 134 26.0 0.0 51.6
 91 24.2 0.0 48.2





#83
1,3-Dichlorobenzene
Concen: 20.459 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

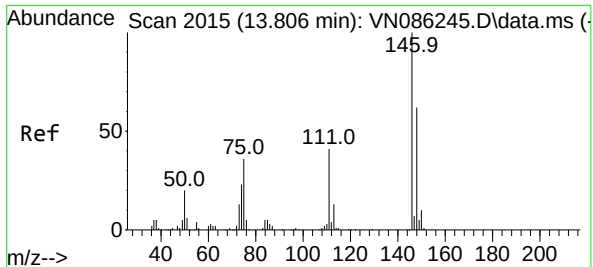
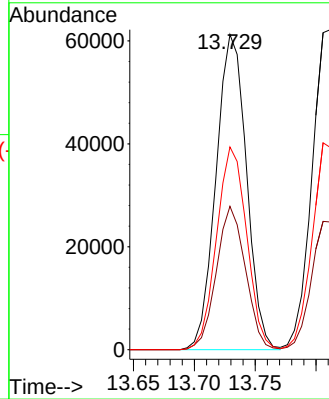
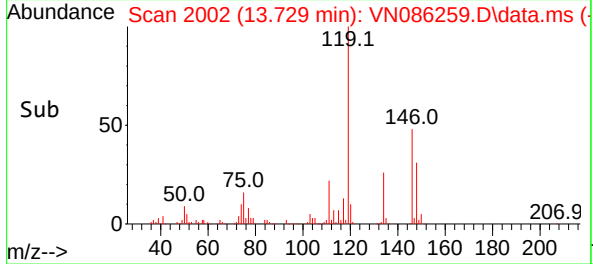
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



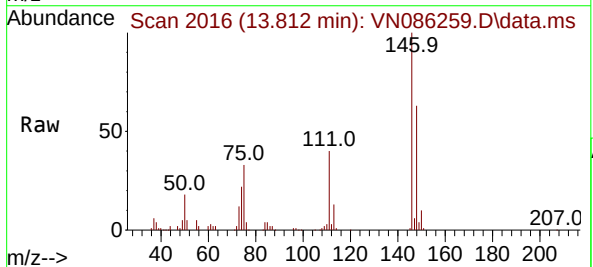
Tgt Ion:146 Resp: 106668
Ion Ratio Lower Upper
146 100
111 43.5 21.7 65.1
148 63.6 32.3 96.8

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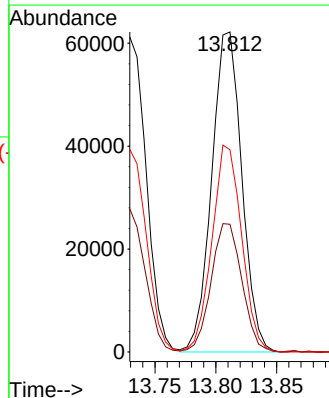
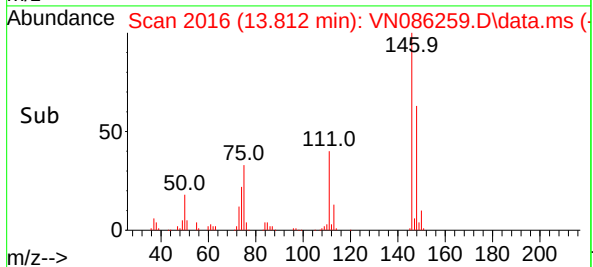
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025

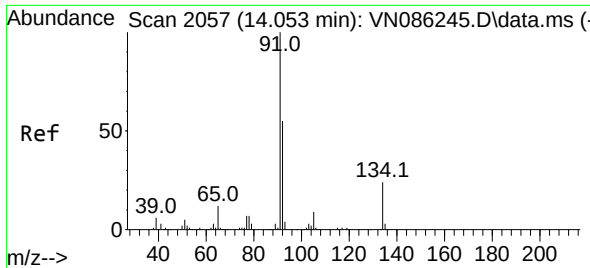


#84
1,4-Dichlorobenzene
Concen: 20.479 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.006 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03



Tgt Ion:146 Resp: 107111
Ion Ratio Lower Upper
146 100
111 40.9 20.8 62.4
148 63.8 31.9 95.5





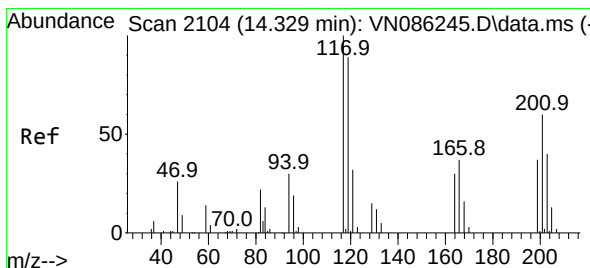
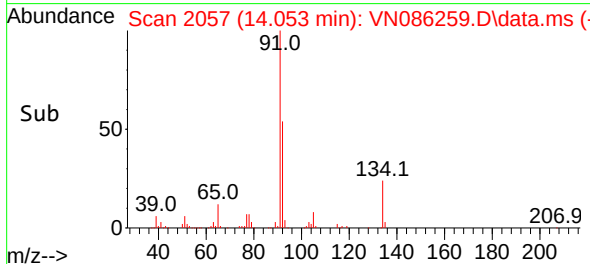
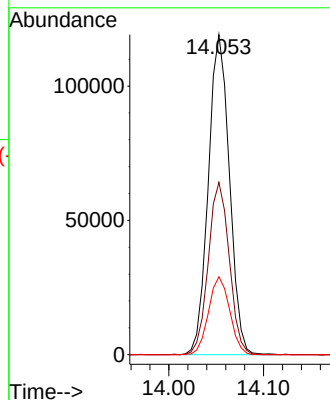
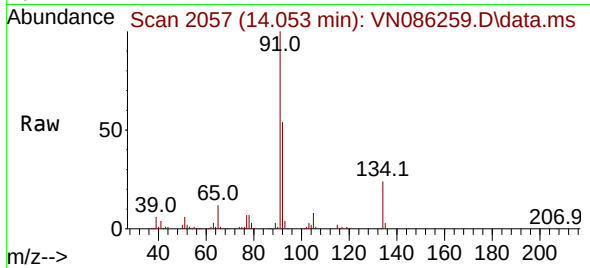
#85
n-Butylbenzene
Concen: 19.498 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Tgt Ion: 91 Resp: 184228
Ion Ratio Lower Upper
91 100
92 53.5 0.0 109.4
134 24.4 0.0 48.2

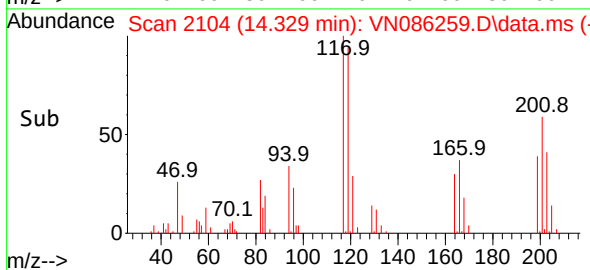
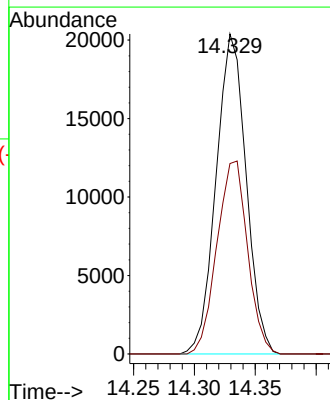
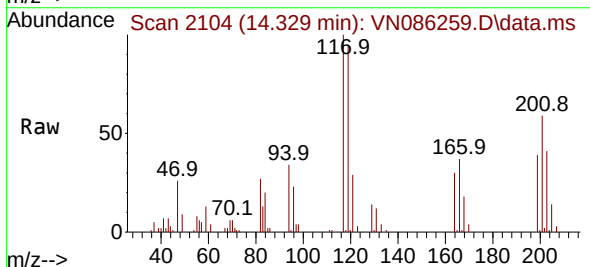
Manual Integrations
APPROVED

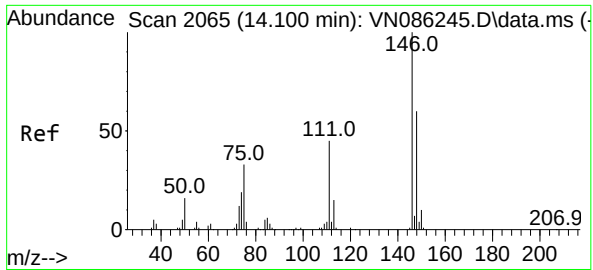
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#86
Hexachloroethane
Concen: 19.792 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion:117 Resp: 34967
Ion Ratio Lower Upper
117 100
201 61.6 30.9 92.8





#87

1,2-Dichlorobenzene

Concen: 20.757 ug/l

RT: 14.100 min Scan# 2065

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN0414WBSD01

Tgt Ion:146 Resp: 10685

Ion Ratio Lower Upper

146 100

111 44.8 22.7 68.0

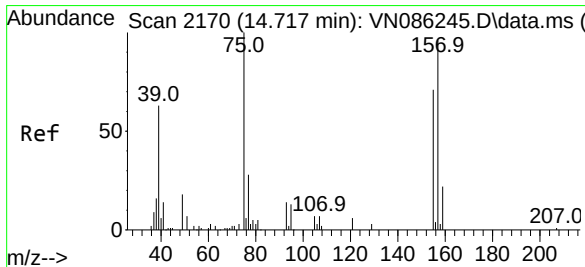
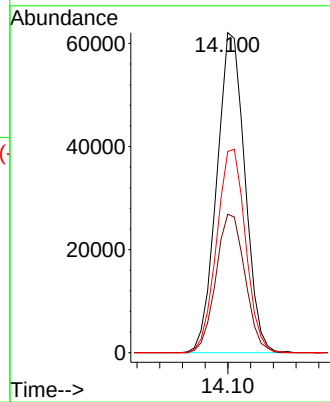
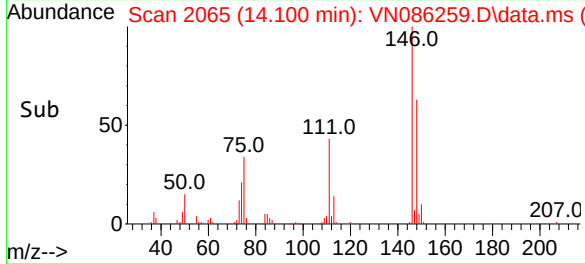
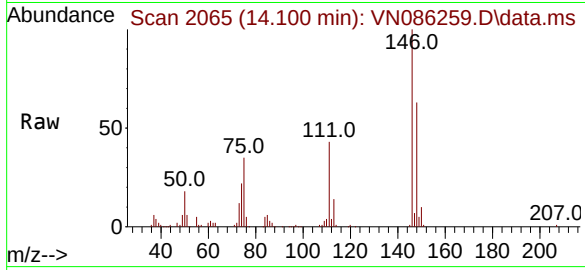
148 65.3 31.8 95.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/16/2025

Supervised By :Semsettin Yesilyurt 04/16/2025



#88

1,2-Dibromo-3-Chloropropane

Concen: 20.422 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. 0.000 min

Lab File: VN086259.D

Acq: 14 Apr 2025 11:03

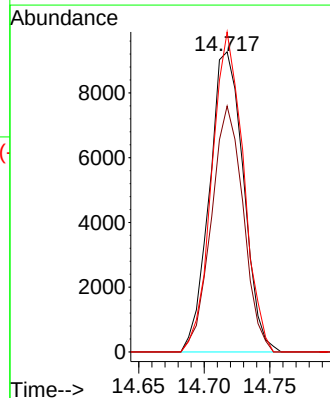
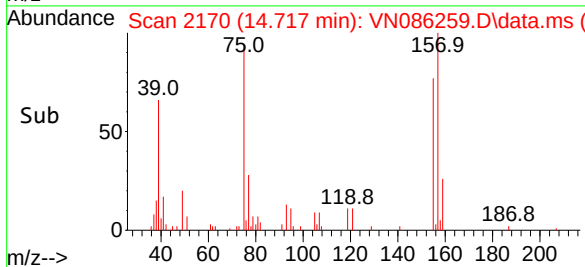
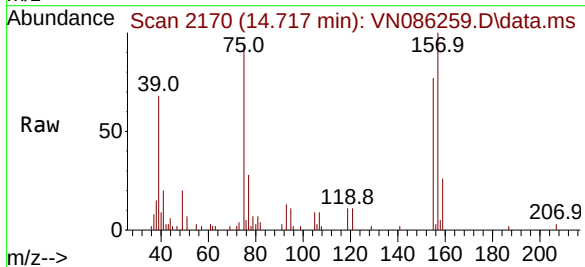
Tgt Ion: 75 Resp: 16765

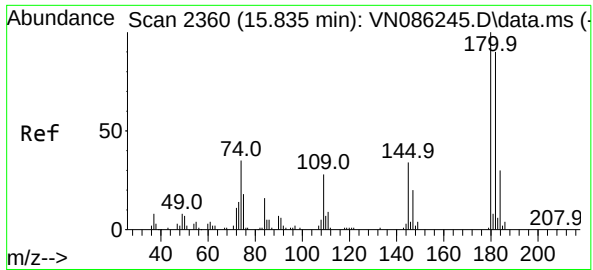
Ion Ratio Lower Upper

75 100

155 76.7 60.3 90.5

157 98.8 79.0 118.4





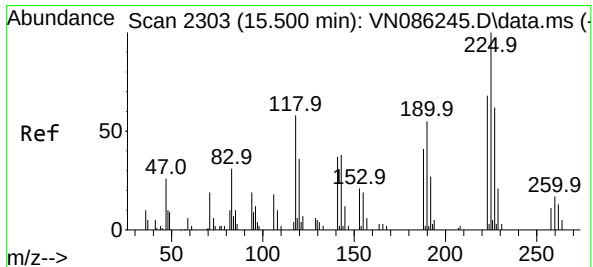
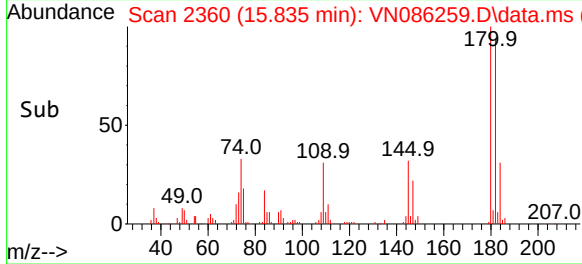
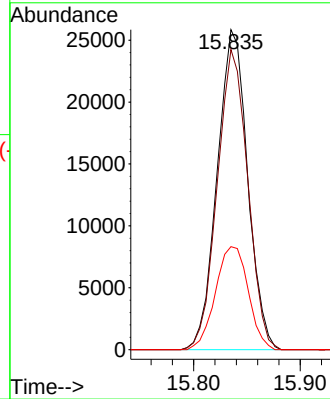
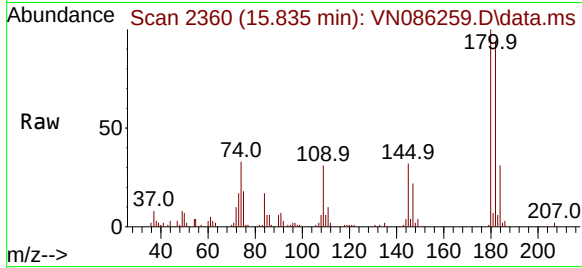
#89
1,2,4-Trichlorobenzene
Concen: 20.486 ug/l
RT: 15.835 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01

Tgt Ion:180 Resp: 5131
Ion Ratio Lower Upper
180 100
182 93.8 75.1 112.7
145 34.7 27.1 40.7

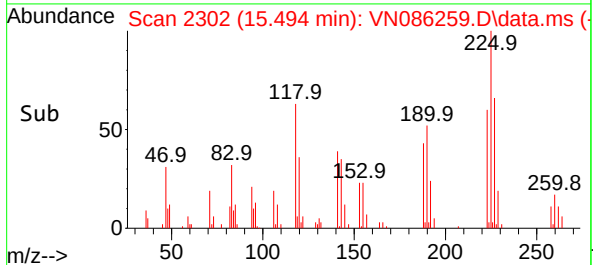
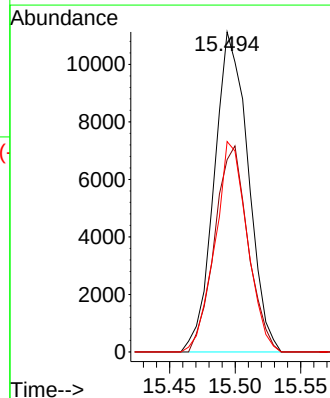
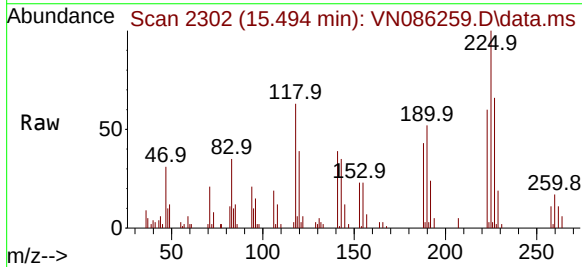
Manual Integrations
APPROVED

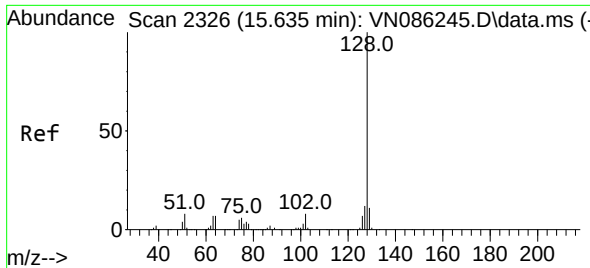
Reviewed By :John Carlone 04/16/2025
Supervised By :Semsettin Yesilyurt 04/16/2025



#90
Hexachlorobutadiene
Concen: 18.496 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

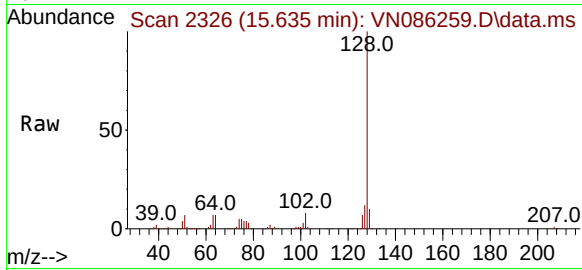
Tgt Ion:225 Resp: 20003
Ion Ratio Lower Upper
225 100
223 63.4 0.0 130.0
227 62.5 0.0 123.2





#91
Naphthalene
Concen: 20.513 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

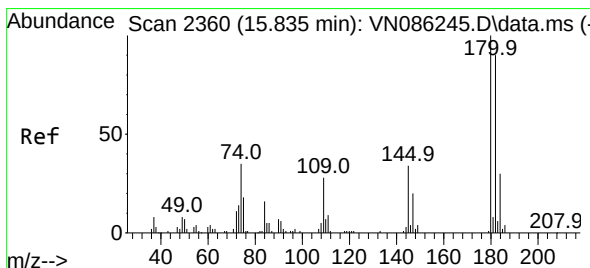
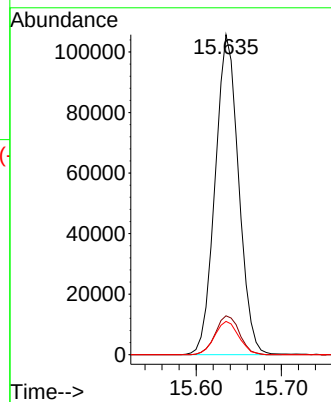
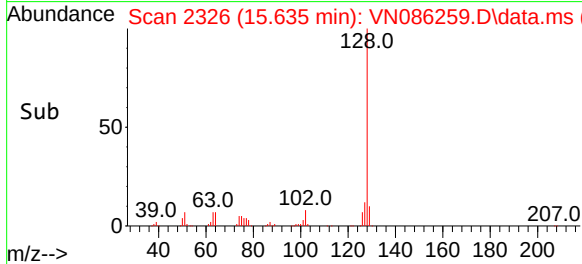
Instrument :
MSVOA_N
ClientSampleId :
VN0414WBSD01



Tgt Ion:128 Resp: 20257
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.2
129 10.7 8.8 13.2

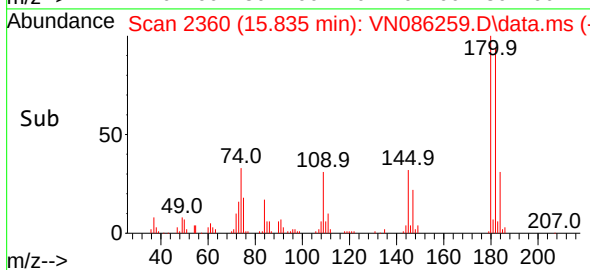
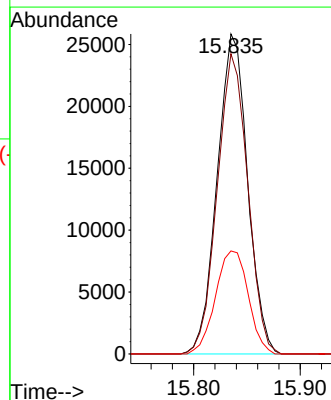
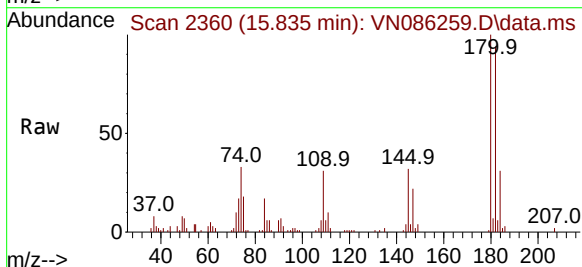
Manual Integrations
APPROVED

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



#92
1,2,3-Trichlorobenzene
Concen: 20.486 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086259.D
Acq: 14 Apr 2025 11:03

Tgt Ion:180 Resp: 51313
Ion Ratio Lower Upper
180 100
182 93.8 0.0 187.8
145 34.7 0.0 67.8



Manual Integration Report

Sequence:	VN041125	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN086242.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:11:12 AM	MMDadoda	4/14/2025 3:43:46 PM	Peak Integrated by Software
VSTDICC050	VN086244.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:11:21 AM	MMDadoda	4/14/2025 3:43:50 PM	Peak Integrated by Software
VSTDICCC020	VN086245.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:11:25 AM	MMDadoda	4/14/2025 3:43:52 PM	Peak Integrated by Software
VSTDICC005	VN086246.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:11:30 AM	MMDadoda	4/14/2025 3:43:53 PM	Peak Integrated by Software
VSTDICC005	VN086246.D	Methyl Iodide	JOHN	4/14/2025 9:11:30 AM	MMDadoda	4/14/2025 3:43:53 PM	Peak Integrated by Software
VSTDICC005	VN086246.D	Methyl tert-Butyl Ether	JOHN	4/14/2025 9:11:30 AM	MMDadoda	4/14/2025 3:43:53 PM	Peak Integrated by Software
VSTDICC005	VN086246.D	trans-1,2-Dichloroethene	JOHN	4/14/2025 9:11:30 AM	MMDadoda	4/14/2025 3:43:53 PM	Peak Integrated by Software
VSTDICV020	VN086248.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:11:35 AM	MMDadoda	4/14/2025 3:43:56 PM	Peak Integrated by Software
VSTDCCC020	VN086255.D	1,2,3-Trichloropropane	JOHN	4/14/2025 9:13:15 AM	MMDadoda	4/14/2025 3:44:07 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN041425

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN086257.D	1,2,3-Trichloropropane	JOHN	4/16/2025 9:09:39 AM	SAM	4/16/2025 3:45:15 PM	Peak Integrated by Software
VSTDCCC020	VN086257.D	Ethyl Acetate	JOHN	4/16/2025 9:09:39 AM	SAM	4/16/2025 3:45:15 PM	Peak Integrated by Software
VN0414WBS01	VN086258.D	1,2,3-Trichloropropane	JOHN	4/16/2025 9:09:43 AM	SAM	4/16/2025 3:45:43 PM	Peak Integrated by Software
VN0414WBSD01	VN086259.D	1,2,3-Trichloropropane	JOHN	4/16/2025 9:09:47 AM	SAM	4/16/2025 3:45:44 PM	Peak Integrated by Software
VSTDCCC020	VN086275.D	1,2,3-Trichloropropane	JOHN	4/16/2025 9:11:09 AM	SAM	4/16/2025 3:46:14 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN041125

Review By	John Carlone	Review On	4/14/2025 9:15:54 AM
Supervise By	Semsettin Yesilyurt	Supervise On	4/14/2025 3:45:12 PM
SubDirectory	VN041125	HP Acquire Method	HP Processing Method 624N041125W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133643		
Initial Calibration Stds	VP133645,VP133646,VP133647,VP133648,VP133649		
CCC	VP133644		
Internal Standard/PEM			
ICV/I.BLK	VP133650		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086241.D	11 Apr 2025 09:52	JC\MD	Ok
2	VSTDICC100	VN086242.D	11 Apr 2025 11:04	JC\MD	Ok,M
3	VSTDICC050	VN086243.D	11 Apr 2025 11:28	JC\MD	Not Ok
4	VSTDICC050	VN086244.D	11 Apr 2025 11:52	JC\MD	Ok,M
5	VSTDICCC020	VN086245.D	11 Apr 2025 12:16	JC\MD	Ok,M
6	VSTDICC005	VN086246.D	11 Apr 2025 12:40	JC\MD	Ok,M
7	IBLK	VN086247.D	11 Apr 2025 13:04	JC\MD	Ok
8	VSTDICV020	VN086248.D	11 Apr 2025 13:34	JC\MD	Ok,M
9	VN0411WBS01	VN086249.D	11 Apr 2025 14:38	JC\MD	Ok,M
10	VN0411WBSD01	VN086250.D	11 Apr 2025 15:16	JC\MD	Ok,M
11	VN0411WBL01	VN086251.D	11 Apr 2025 15:40	JC\MD	Ok
12	Q1774-02	VN086252.D	11 Apr 2025 16:15	JC\MD	Ok
13	Q1774-03	VN086253.D	11 Apr 2025 16:39	JC\MD	Ok,M
14	Q1774-04	VN086254.D	11 Apr 2025 17:03	JC\MD	Ok,M
15	VSTDCCC020	VN086255.D	11 Apr 2025 17:28	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN041425

Review By	John Carlone	Review On	4/16/2025 9:11:25 AM
Supervise By	Maresh Dadoda	Supervise On	4/16/2025 3:47:54 PM
SubDirectory	VN041425	HP Acquire Method	HP Processing Method 624N041125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133657		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133658,VP133659		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086256.D	14 Apr 2025 08:59	JC\MD	Ok
2	VSTDCCC020	VN086257.D	14 Apr 2025 09:48	JC\MD	Ok,M
3	VN0414WBS01	VN086258.D	14 Apr 2025 10:30	JC\MD	Ok,M
4	VN0414WBSD01	VN086259.D	14 Apr 2025 11:03	JC\MD	Ok,M
5	VN0414WBL01	VN086260.D	14 Apr 2025 11:27	JC\MD	Ok
6	PB167573ZHE#01	VN086261.D	14 Apr 2025 12:02	JC\MD	Ok,M
7	PB167573ZHE#02	VN086262.D	14 Apr 2025 12:26	JC\MD	Ok,M
8	PB167573ZHE#03	VN086263.D	14 Apr 2025 12:50	JC\MD	Ok,M
9	PB167573ZHE#04	VN086264.D	14 Apr 2025 13:14	JC\MD	Ok,M
10	Q1804-01	VN086265.D	14 Apr 2025 13:38	JC\MD	Ok
11	Q1804-02	VN086266.D	14 Apr 2025 14:02	JC\MD	Ok
12	PB167573ZHE#07	VN086267.D	14 Apr 2025 14:26	JC\MD	Ok,M
13	PB167573ZHE#08	VN086268.D	14 Apr 2025 14:50	JC\MD	Ok,M
14	PB167573ZHE#09	VN086269.D	14 Apr 2025 15:14	JC\MD	Ok,M
15	PB167573ZHE#10	VN086270.D	14 Apr 2025 15:38	JC\MD	Ok,M
16	PB167573ZHE#11	VN086271.D	14 Apr 2025 16:02	JC\MD	Ok,M
17	PB167573ZHE#12	VN086272.D	14 Apr 2025 16:26	JC\MD	Ok,M
18	PB167573ZHE#05	VN086273.D	14 Apr 2025 16:50	JC\MD	Ok,M
19	PB167573ZHE#06	VN086274.D	14 Apr 2025 17:14	JC\MD	Ok,M
20	VSTDCCC020	VN086275.D	14 Apr 2025 17:38	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN041125

Review By	John Carlone	Review On	4/14/2025 9:15:54 AM
Supervise By	Semsettin Yesilyurt	Supervise On	4/14/2025 3:45:12 PM
SubDirectory	VN041125	HP Acquire Method	HP Processing Method 624N041125W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133643		
Initial Calibration Stds	VP133645,VP133646,VP133647,VP133648,VP133649		
CCC	VP133644		
Internal Standard/PEM			
ICV/I.BLK	VP133650		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086241.D	11 Apr 2025 09:52		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN086242.D	11 Apr 2025 11:04	pH#Lot#V12668	JC\MD	Ok,M
3	VSTDICC050	VSTDICC050	VN086243.D	11 Apr 2025 11:28	Spike error	JC\MD	Not Ok
4	VSTDICC050	VSTDICC050	VN086244.D	11 Apr 2025 11:52		JC\MD	Ok,M
5	VSTDICCC020	VSTDICCC020	VN086245.D	11 Apr 2025 12:16	Method fail for comp.#55	JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN086246.D	11 Apr 2025 12:40		JC\MD	Ok,M
7	IBLK	IBLK	VN086247.D	11 Apr 2025 13:04		JC\MD	Ok
8	VSTDICV020	ICVVN041125	VN086248.D	11 Apr 2025 13:34		JC\MD	Ok,M
9	VN0411WBS01	VN0411WBS01	VN086249.D	11 Apr 2025 14:38		JC\MD	Ok,M
10	VN0411WBSD01	VN0411WBSD01	VN086250.D	11 Apr 2025 15:16		JC\MD	Ok,M
11	VN0411WBL01	VN0411WBL01	VN086251.D	11 Apr 2025 15:40		JC\MD	Ok
12	Q1774-02	TT-073-IDWGW-20250	VN086252.D	11 Apr 2025 16:15	vial A+B pH<2	JC\MD	Ok
13	Q1774-03	TT-074-IDWGW-20250	VN086253.D	11 Apr 2025 16:39	vial A+B pH<2	JC\MD	Ok,M
14	Q1774-04	TT-075-IDWGW-20250	VN086254.D	11 Apr 2025 17:03	vial A+B pH<2	JC\MD	Ok,M
15	VSTDCCC020	VSTDCCC020EC	VN086255.D	11 Apr 2025 17:28		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN041425

Review By	John Carlone	Review On	4/16/2025 9:11:25 AM
Supervise By	Mahesh Dadoda	Supervise On	4/16/2025 3:47:54 PM
SubDirectory	VN041425	HP Acquire Method	HP Processing Method 624N041125W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133657
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133658,VP133659

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086256.D	14 Apr 2025 08:59		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN086257.D	14 Apr 2025 09:48	pH#Lot#V12668	JC\MD	Ok,M
3	VN0414WBS01	VN0414WBS01	VN086258.D	14 Apr 2025 10:30		JC\MD	Ok,M
4	VN0414WBSD01	VN0414WBSD01	VN086259.D	14 Apr 2025 11:03		JC\MD	Ok,M
5	VN0414WBL01	VN0414WBL01	VN086260.D	14 Apr 2025 11:27		JC\MD	Ok
6	PB167573ZHE#01	PB167573ZHE#01	VN086261.D	14 Apr 2025 12:02		JC\MD	Ok,M
7	PB167573ZHE#02	PB167573ZHE#02	VN086262.D	14 Apr 2025 12:26		JC\MD	Ok,M
8	PB167573ZHE#03	PB167573ZHE#03	VN086263.D	14 Apr 2025 12:50		JC\MD	Ok,M
9	PB167573ZHE#04	PB167573ZHE#04	VN086264.D	14 Apr 2025 13:14		JC\MD	Ok,M
10	Q1804-01	001-WILLETS-PT-BLVD	VN086265.D	14 Apr 2025 13:38	vial A pH<2	JC\MD	Ok
11	Q1804-02	002-35TH-AVE(APR)	VN086266.D	14 Apr 2025 14:02	vial A pH<2	JC\MD	Ok
12	PB167573ZHE#07	PB167573ZHE#07	VN086267.D	14 Apr 2025 14:26		JC\MD	Ok,M
13	PB167573ZHE#08	PB167573ZHE#08	VN086268.D	14 Apr 2025 14:50		JC\MD	Ok,M
14	PB167573ZHE#09	PB167573ZHE#09	VN086269.D	14 Apr 2025 15:14		JC\MD	Ok,M
15	PB167573ZHE#10	PB167573ZHE#10	VN086270.D	14 Apr 2025 15:38		JC\MD	Ok,M
16	PB167573ZHE#11	PB167573ZHE#11	VN086271.D	14 Apr 2025 16:02		JC\MD	Ok,M
17	PB167573ZHE#12	PB167573ZHE#12	VN086272.D	14 Apr 2025 16:26		JC\MD	Ok,M
18	PB167573ZHE#05	PB167573ZHE#05	VN086273.D	14 Apr 2025 16:50		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN041425

Review By	John Carlone	Review On	4/16/2025 9:11:25 AM
Supervise By	Mahesh Dadoda	Supervise On	4/16/2025 3:47:54 PM
SubDirectory	VN041425	HP Acquire Method	HP Processing Method 624N041125W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP133657
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133658,VP133659

19	PB167573ZHE#06	PB167573ZHE#06	VN086274.D	14 Apr 2025 17:14		JC\MD	Ok,M
20	VSTDCCC020	VSTDCCC020EC	VN086275.D	14 Apr 2025 17:38		JC\MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q1804

Test : VOC-BTEX

Prepbatch ID :

Sequence ID/Qc Batch ID: VN041425,

Standard ID :

VP131767,VP132035,VP133251,VP133342,VP133544,VP133657,VP133658,VP133659,

Chemical ID :

V13391,V14154,V14431,V14435,V14501,V14502,V14523,V14524,V14580,V14614,V14615,V14624,V14630,V14631,V14632,V14633,V14719,V14720,V14726,V14744,V14753,V14804,V14805,V14842,V14883,V14885,V14896,V14897,V14898,V14899,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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>
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>
466	624 Internal Standard and Surrogate Mix, 150PPM	VP133251	03/12/2025	07/02/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/21/2025

FROM 0.15000ml of V14580 + 0.15000ml of V14885 + 24.75000ml of V14624 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133342	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/20/2025

FROM 1.00000ml of V14896 + 1.00000ml of V14897 + 1.00000ml of V14898 + 1.00000ml of V14899 + 21.00000ml of V14883 = Final Quantity: 25.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133544	04/01/2025	05/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/03/2025
<u>FROM</u>	0.40000ml of V14842 + 1.00000ml of V14431 + 1.00000ml of V14435 + 1.00000ml of V14501 + 1.00000ml of V14502 + 1.00000ml of V14523 + 1.00000ml of V14524 + 1.00000ml of V14726 + 1.00000ml of V14744 + 1.00000ml of V14753 + 1.00000ml of V14804 + 1.00000ml of V14805 + 1.50000ml of V14719 + 1.50000ml of V14720 + 10.60000ml of V14615 = Final Quantity: 25.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP133657	04/14/2025	04/15/2025	John Carlone	None	None	Mahesh Dadoda 04/17/2025
<u>FROM</u> 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml								

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
645	20 PPB CCC, 624	VP133659	04/14/2025	04/15/2025	John Carlone	None	None	Mahesh Dadoda 04/17/2025
<u>FROM</u>	39.97000ml of W3112 + 0.00500ml of VP132035 + 0.00500ml of VP133342 + 0.00500ml of VP133544 + 0.00800ml of VP133251 = Final Quantity: 40.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14431

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14435

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14501

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14502

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	09/20/2025	03/20/2025 / SAM	09/18/2024 / SAM	V14523

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	09/20/2025	03/20/2025 / SAM	09/18/2024 / SAM	V14524

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555584 / Custom Standard, CLP VOA SurrogateStd [CS 5179-4]	A0219012	01/02/2026	01/02/2025 / SAM	11/18/2024 / SAM	V14580

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	09/19/2025	03/19/2025 / SAM	11/26/2024 / SAM	V14615

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

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	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	09/20/2025	03/20/2025 / SAM	12/17/2024 / SAM	V14719

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	09/20/2025	03/20/2025 / SAM	12/17/2024 / SAM	V14720

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	A02110618	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14726

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	08/27/2025	02/27/2025 / SAM	12/17/2024 / SAM	V14744

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14753

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	09/20/2025	03/20/2025 / SAM	01/08/2025 / SAM	V14804

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	09/20/2025	03/20/2025 / SAM	01/08/2025 / SAM	V14805

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	08/27/2025	02/27/2025 / SAM	01/21/2025 / SAM	V14842

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	10/25/2025	02/19/2025 / Jaswal	04/22/2024 / Jaswal	V14883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555583 / Custom Standard, CLP VOA Internal Std [CS 5179-3]	A0223136	03/12/2026	03/12/2025 / SAM	03/12/2025 / SAM	V14885

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14896

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14897

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14898

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14899

CHEMICAL RECEIPT LOG BOOK

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.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

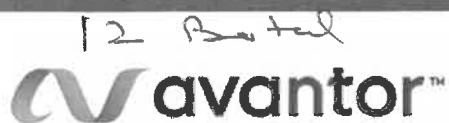
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



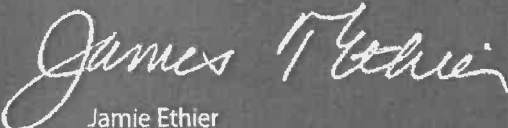
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

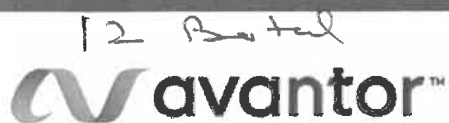
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



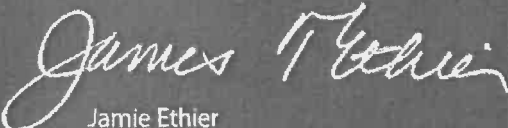
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
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



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty
Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(KME)	Lot	DIL	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
														(Solvent Safety Info. On Attached pg.)	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)	Uncertainty	CASE			
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2450mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-5	NA	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	NA	N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	NA	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	NA	or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 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 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(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)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	NA	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	NA	or-rat 915mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	NA	or-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	NA	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	156-60-5	NA	N/A
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 1235mg/kg
22. 1,1-Dichloroethane	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.5	78-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.3	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
25. Chloroform	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	100 ppm	or-rat 725mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	NA	N/A
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	NA	or-rat 3600mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	NA	N/A
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	NA	N/A
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	NA	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	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
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	NA	or-rat 670mg/kg
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-1	NA	or-rat 2699mg/kg
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-1	NA	N/A
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	NA	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	NA	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40008.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	NA	or-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	NA	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	NA	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	NA	or-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	NA	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	NA	N/A
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 2240mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 2290mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	NA	or-rat 3900mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 2100mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	NA	or-rat 500mg/kg
65. 1,4-Dichlorobenzene																

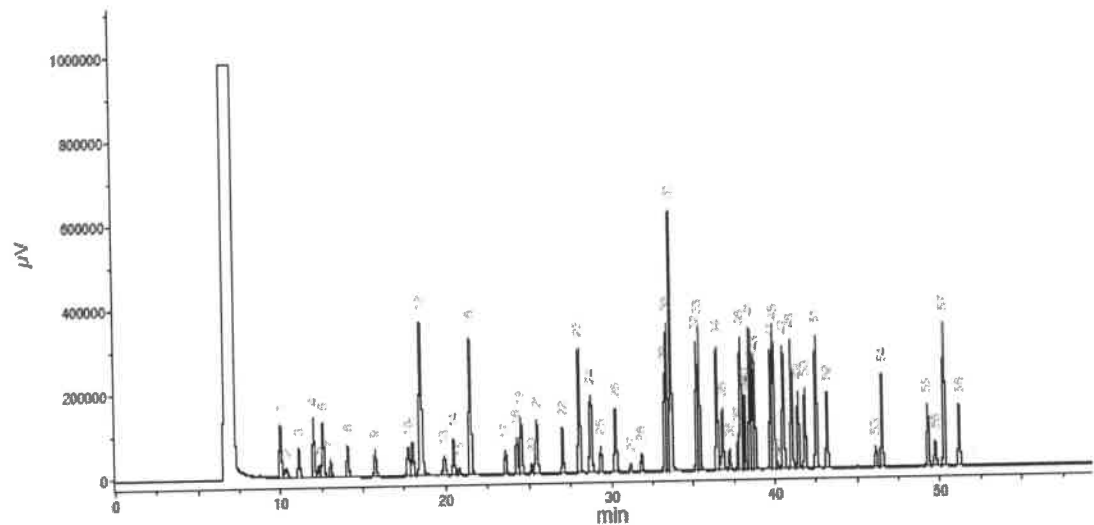


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.21
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methoxyvinylbenzene/Methyl acrylate/Chloroform	18.49
13	Isobutene/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2-Pentene	27.07
22	cis-1,2-Dichloroethene	28.03
23	Toluene	28.73
24	Ethyl methacrylate/Trans-1,2-Dichloroethene	29.34
25	1,1,2-Trichloroethane	30.34
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	31.84
28	1,2-Dibromomethane	33.05
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.53
32	o-Xylene	35.70
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	1,3,5-Trimethylbenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty
Flask Uncertainty

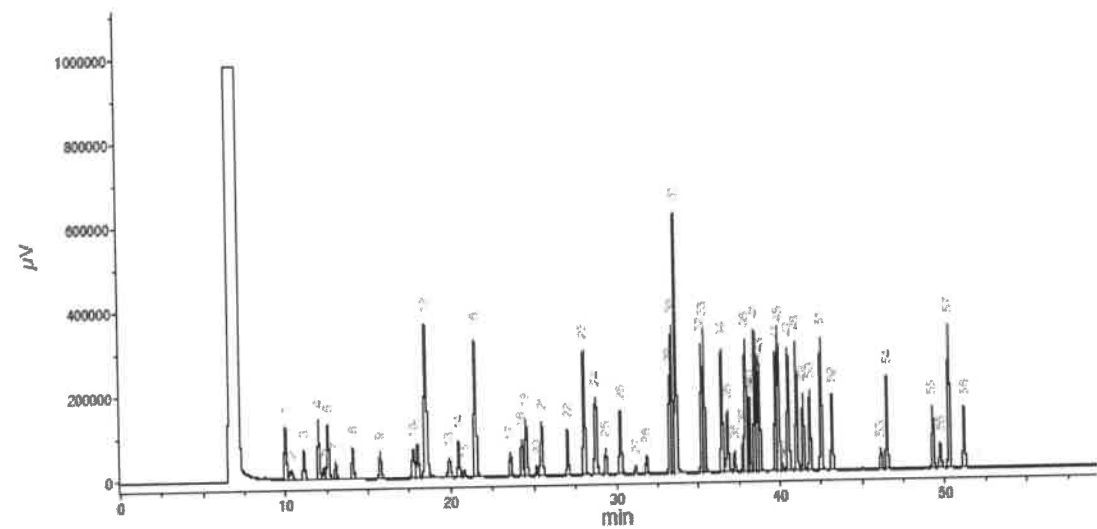
Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(KME)	Lot	DIL	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
														(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWL)	LD50
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty	CASE		
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2450mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-5	NA	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	NA	N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	NA	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	NA	or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	or-rat 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 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H)(skin)	or-rat 120mg/kg
11. Methyl acrylate	(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)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (30mg/m3/8H)	or-rat 720mg/kg
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	NA	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	NA	or-rat 915mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	NA	or-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	158-59-2	NA	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	158-60-5	NA	N/A
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 1235mg/kg
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	58-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	NA	N/A
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	NA	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	20.5	75-34-3	100 ppm	or-rat 725mg/kg
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	NA	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.8	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	40018.5	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-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	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	2000.7	22.9	108-83-4	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	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	NA	or-mus 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	NA	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10081-01-5	NA	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10081-02-6	NA	N/A
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	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
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	NA	or-rat 670mg/kg
42. 1,1,2-Trichloroethane	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
43. Trichloroethene	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	or-rat 936mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	98-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-1	NA	or-rat 2699mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	NA	N/A
49. p-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
50. Naphthalene	35162	050823	0.05	5.00	40005.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	NA	or-rat 4750mg/kg
51. Styrene	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
52. Toluene	35162	050823	0.05	5.00	40008.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 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	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	NA	or-mus 1390mg/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	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	NA	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	108-87-8	NA	or-rat 5000mg/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	NA	N/A
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	NA	or-rat 2240mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	NA	or-rat 2100mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
65. 1,4-Dich																

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	13.56
7	Carbon disulfide/Methylene chloride	13.94
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methoxyvinylbenzene/Methyl acrylate/Chloroform	18.49
13	Isobutene/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2-Pentopropane	27.07
22	cis-1,2-Dichloroethane	28.03
23	Toluene	28.73
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	29.34
25	1,1,2-Trichloroethane	30.34
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	32.84
28	1,2-Dibromomethane	33.26
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.33
32	o-Xylene	35.70
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	1,2,2-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.18
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		
Methanol	METHYL ALCOHOL	CAS#: 67-56-1
		% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

202 03/18/24



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

91980
031725
Acrolein

Solvent(s):
Water

Lot#
072324Q

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

041725
Refrigerate (4 °C)
5000
6UTB

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty

0.001 Peak Uncertainty

10.0

Formulated By:	Lawrence Barry	031725
Reviewed By:	Pedro L. Rentas	031725

Expanded
Uncertainty
(+/-) (µg/mL)

SDS Information
(Solvent Safety Info. On Attached pg.)

CAS# OSHA PEL (TWA) LDSO

1. Acrolein 5 103755V10F 5000 97 0.5 0.05166 0.05170 5004.1 52.5 107-02-8 0.1 ppm orl-rat 48mg/kg

Method: GC6MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions 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

Abundance

Abundance

27

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000



56

150000

100000

50000

37

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)
GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

P271	Use in ventilated area	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
P302,332	If on skin, wash with soap and water	H315
		P280
		P305,351,338
		If in eyes, remove contacts, rinse with water
	Signal Word: DANGER	

See Certified Weight Report For Other Analytes Present At Trace Quantities.
INTENDED USE: REFERENCE MATERIAL

Section IV, FIRST AID MEASURES

General advice
If inhaled Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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
Protective equipment for fire
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Wear self contained breathing apparatus for fire fighting if necessary.
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.
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)
Vapor Pressure (mm Hg)		Melting Point

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. Exposure to this product may have serious adverse health effects including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. 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.

Section XVI. Misc. INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XV. REGULATORY INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water
ATA
Not dangerous goods
Proper shipping name: Water

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 NA
EC50 NA

Section XII. ECOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Solubility in Water		Completely miscible	
Vapor Density (AIR = 1)		NA	(Butyl Acetate = 1)
0°C		NA	NA



202 03/18/24



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Expiration Date: 04/17/25
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Peak Uncertainty

Solvent(s): Water
Lot# 072324Q

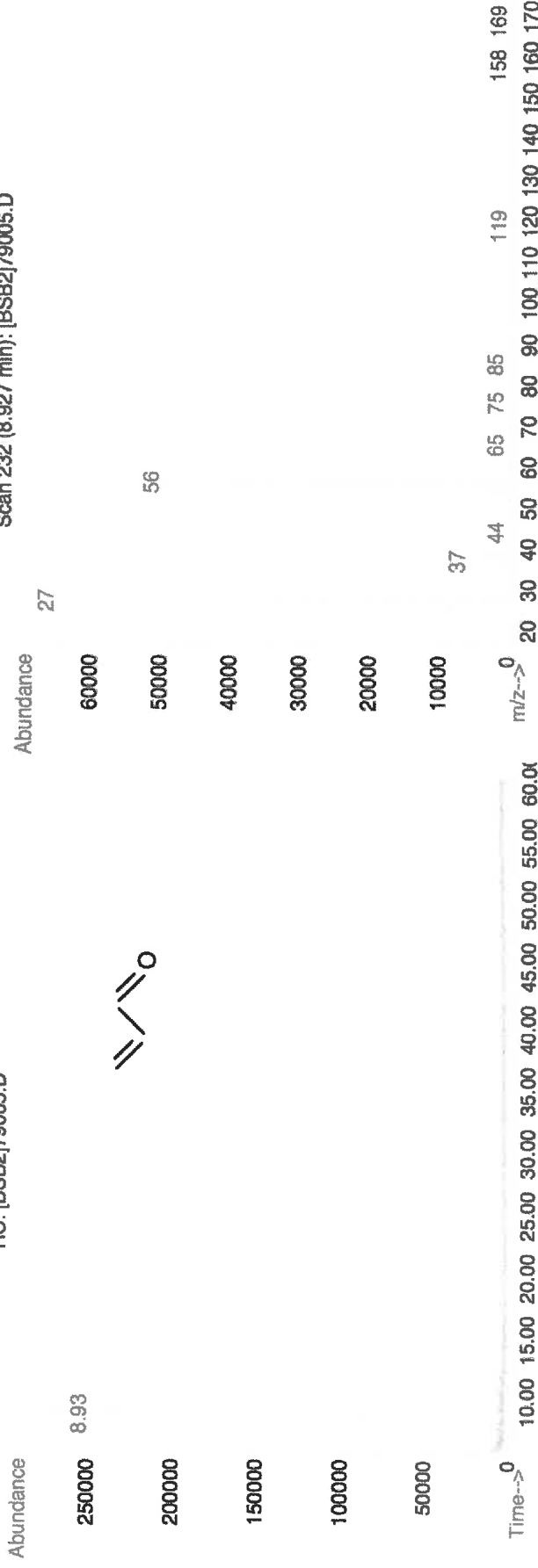
V14895 to
V14899

Formulated By: <i>Lawrence Barry</i>	031725
DATE	
Reviewed By: <i>Pedro L. Rentas</i>	031725
DATE	

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (Solvent Safety Info. On Attached pg.)		
									(+/-) (µg/mL)	CAS#	OSHA PEL (TWA) LDSO
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm orl-rat 48mg/kg

Method: GC6MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions 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



The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)
GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

P271	Use in ventilated area	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
P302,332	If on skin, wash with soap and water	H315
		P280
		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)
Vapor Pressure (mm Hg)		Melting Point

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. Exposure to this product may have serious adverse health effects including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. 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.

Section XVI. Misc. INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XV. REGULATORY INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water
ATA
Not dangerous goods
Proper shipping name: Water

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 NA
EC50 NA

Section XII. ECOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Solubility in Water		Completely miscible	
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA
		0°C	



Certified Reference Material CRM

202 03/18/24



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Expiration Date: 04/17/25
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water
Lot# 072324Q

V14895 to
V14899

5E-05 Balance Uncertainty
0.001 Peak Uncertainty

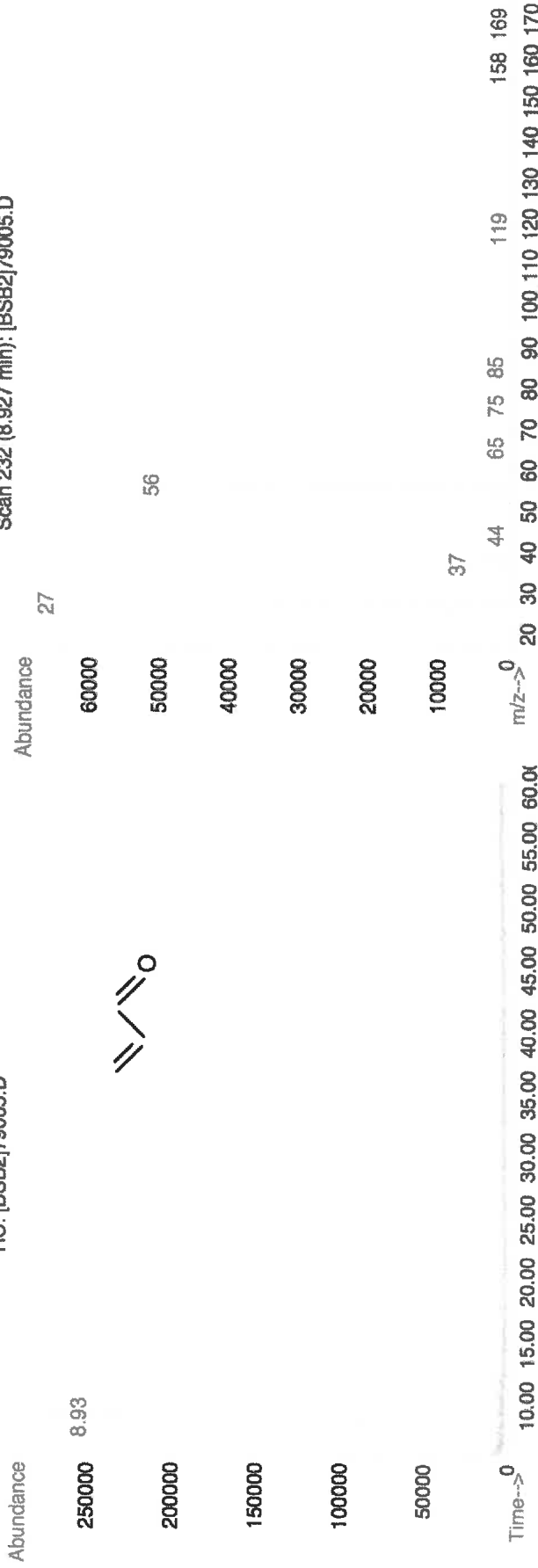
Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By: <i>Lawrence Barry</i>	031725
DATE	
Reviewed By: <i>Pedro L. Rentas</i>	031725
DATE	

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (Solvent Safety Info. On Attached pg.)		
									(+/-) (µg/mL)	CAS#	OSHA PEL (TWA) LDSO
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm orl-rat 48mg/kg

Method: GC6MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions 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



The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)
GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

P271	Use in ventilated area	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
P302,332	If on skin, wash with soap and water	H315
		P280
		P305,351,338
		If in eyes, remove contacts, rinse with water

Signal Word: DANGER

See Certified Weight Report For Other Analyses 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

Suitable extinguishing media
Protective equipment for fire
Hazardous Decomposition products
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Wear self contained breathing apparatus for fire fighting if necessary.
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.
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII, EXPOSURE CONTROLS/PERSONAL PROTECTION

Water
CAS#: 7732-18-5
TWA: 500 ppm
Personal protective equipment
Respiratory protection
Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)
Vapor Pressure (mm Hg)		Melting Point

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.

Section XVI. Misc. INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XV. REGULATORY INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water
ATA
Not dangerous goods
Proper shipping name: Water

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 NA
EC50 NA

Section XII. ECOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Solubility in Water		Completely miscible	
Vapor Density (AIR = 1)		NA	(Butyl Acetate = 1)
0°C		NA	NA



Certified Reference Material CRM

202 03/18/24



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Expiration Date: 04/17/25
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water
Lot# 072324Q

V14895 to
V14899

5E-05 Balance Uncertainty
0.001 Peak Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By:	Lawrence Barry	031725
Reviewed By:	Pedro L. Rentas	031725
		DATE
		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)	CAS#	OSHA PEL (TWA)	LDSO

1. Acrolein 5 103755V10F 5000 97 0.5 0.05166 0.05170 5004.1 52.5 107-02-8 0.1 ppm orl-rat 48mg/kg

Method: GC6MSD-1, Detector: Mass Selective Detector (Scan mode), Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C, Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions 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

Abundance

Abundance

Scan 232 (8.927 min): [BSB2]79005.D

27

250000 8.93

200000

50000 56

150000

40000

30000

100000

20000

50000

10000

37

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

119

158 169

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)
GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

P271	Use in ventilated area	GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
P302,332	If on skin, wash with soap and water	H315
		P280
		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 (H2O = 1)
Vapor Pressure (mm Hg)		Melting Point

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. Exposure to this product may have serious adverse health effects including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. 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.

Section XVI. Misc. INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XV. REGULATORY INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water
ATA
Not dangerous goods
Proper shipping name: Water

Section XIV. TRANSPORT INFORMATION

Dispose with normal Laboratory Solvent Waste.

Section XIII. DISPOSAL CONSIDERATIONS

LC50 NA
EC50 NA

Section XII. ECOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XI. TOXICOLOGICAL INFORMATION

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 X. STABILITY AND REACTIVITY

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Solubility in Water		Completely miscible	
Vapor Density (AIR = 1)		NA	(Butyl Acetate = 1)
0°C		NA	NA



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

10.0

Weight(s) shown below were combined and diluted to (mL):

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	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. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions 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

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00 65.00 70.00 75.00 80.00 85.00 90.00 100.00 110.00 120.00 130.00 140.00 150.00 160.00 170.00

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

10.0

Weight(s) shown below were combined and diluted to (mL):

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. Acrolein	5	103755V10F	5000	97	0.5	0.05186	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions 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

Abundance

250000 8.93

60000

200000

50000 56

150000

40000

30000

20000

10000

50000

10000

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

44 65 75 85 119 158 169

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



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

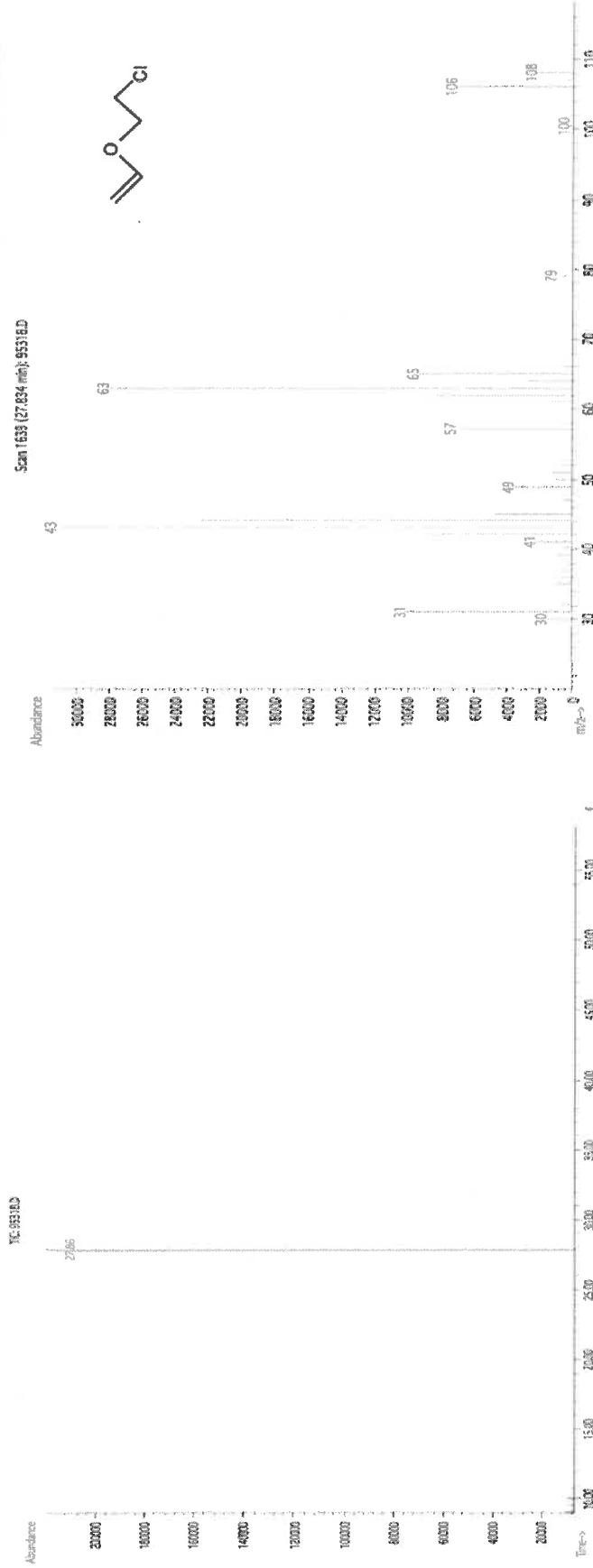
✓ 14630 to
✓ 14649

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)	SDS Information (Solvent Safety Info. On Attached pg.)
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.



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):

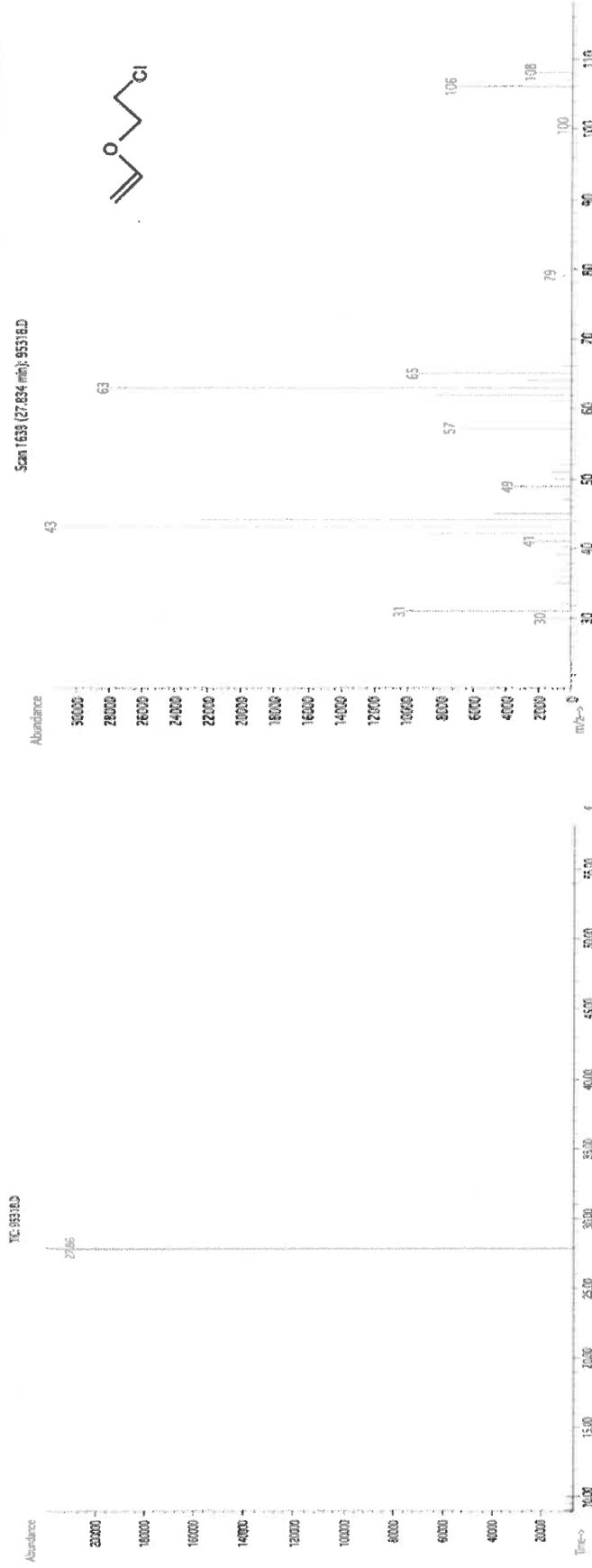
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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).

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):

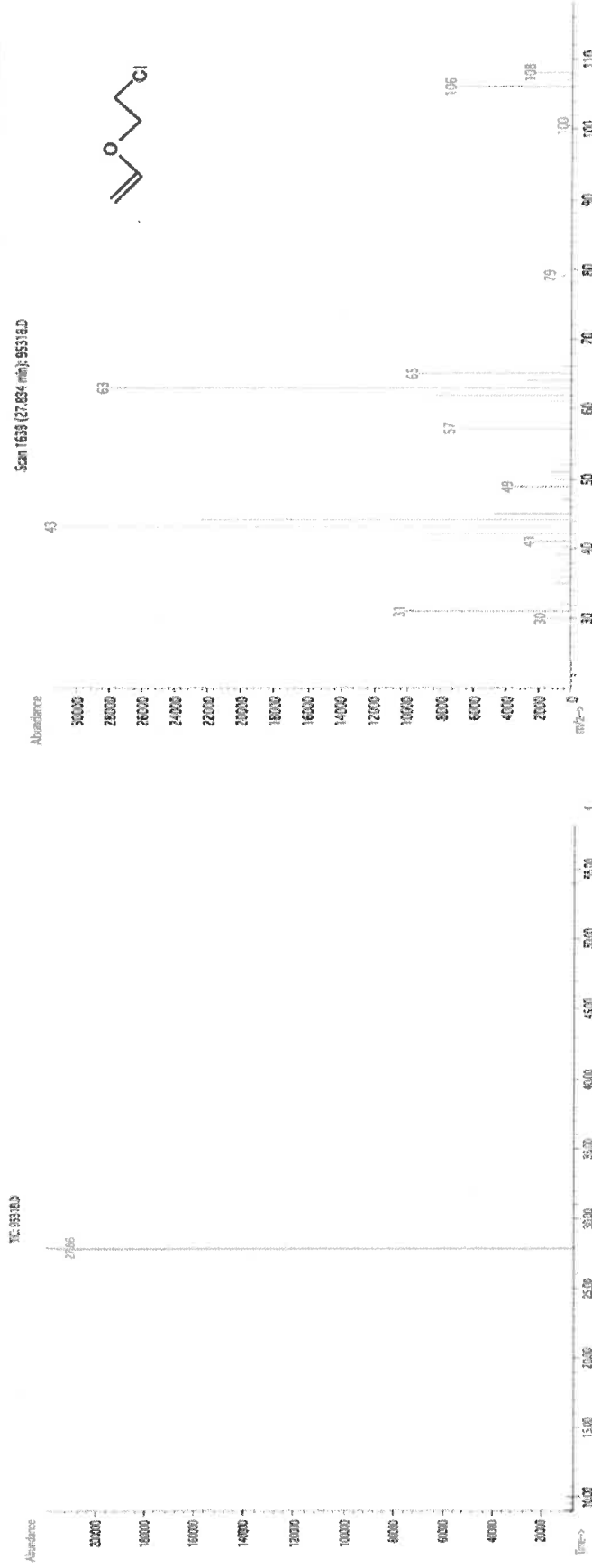
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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.



* 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.



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

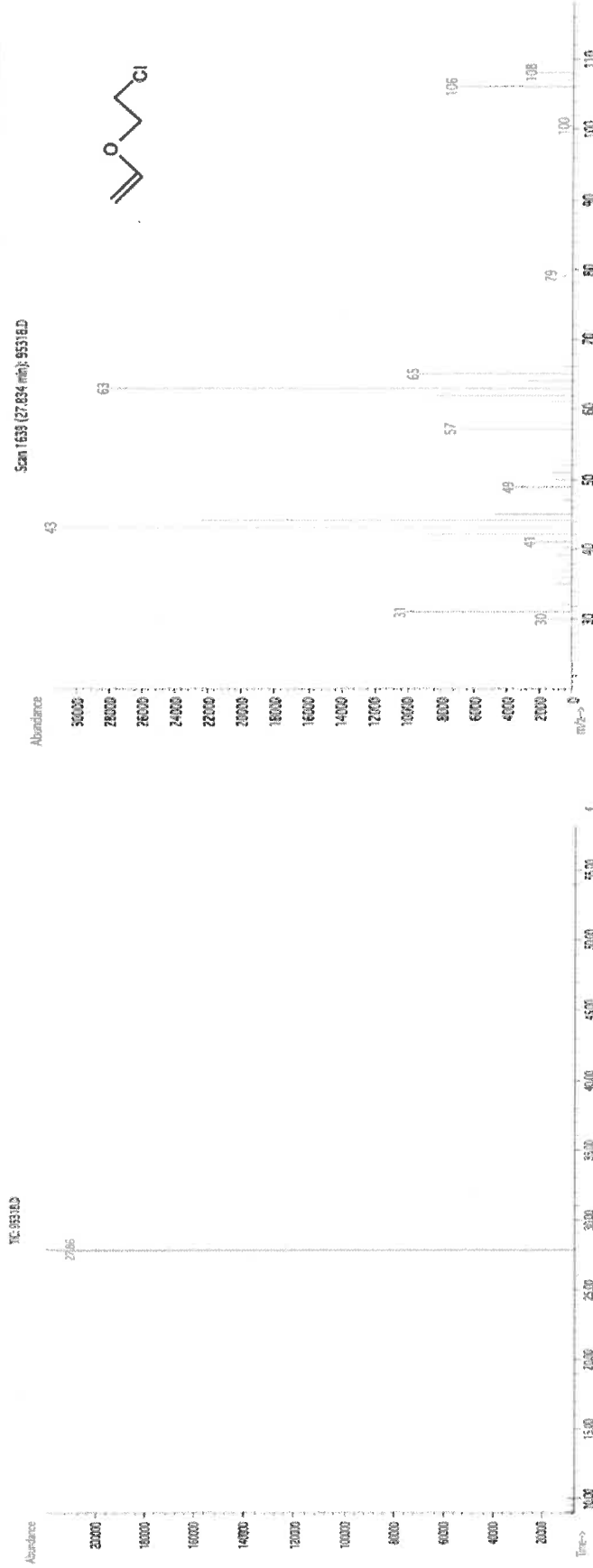
✓ 14630 to
✓ 14649

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)	SDS Information (Solvent Safety Info. On Attached pg.)
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.



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Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

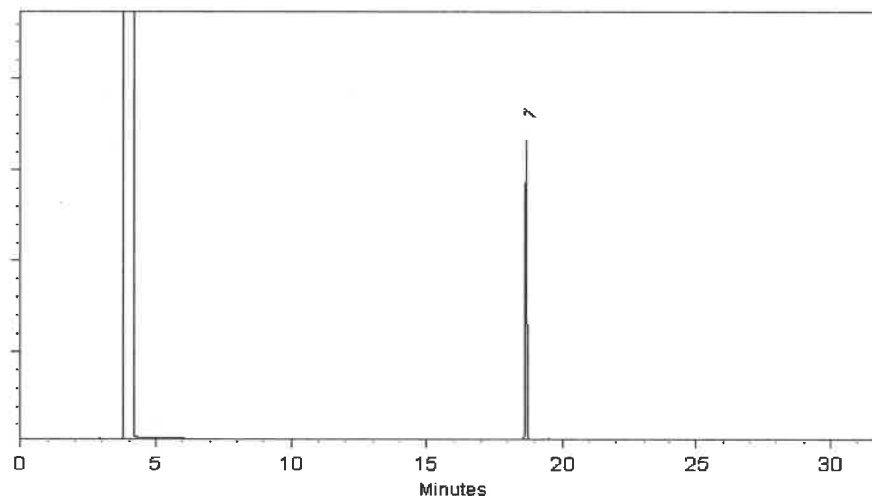
FID

Split Vent:

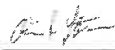
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

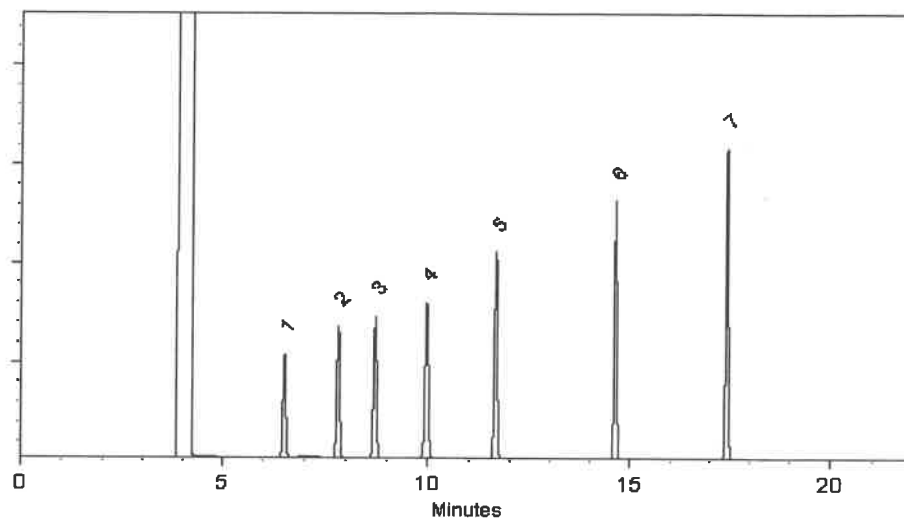
FID

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:

- 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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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:

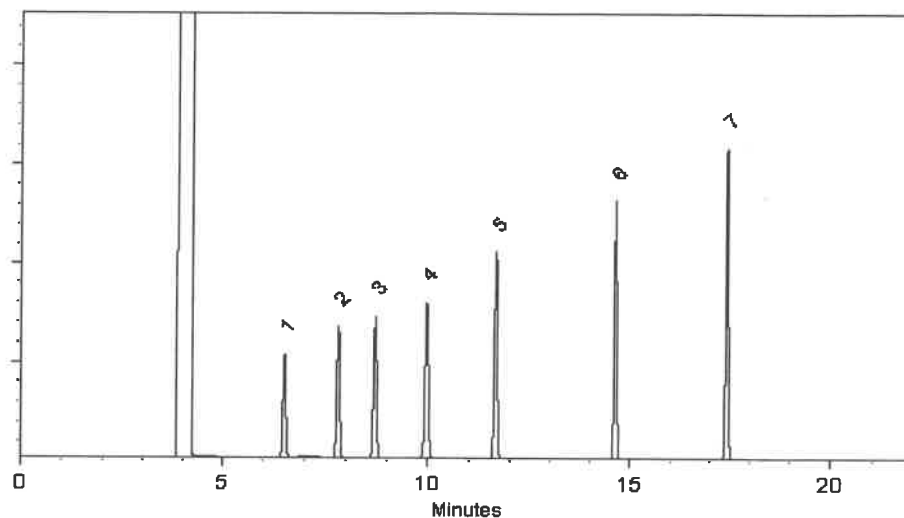
FID

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:

- 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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Dec 12/17/24
30 v. 4
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14697-to-14726



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

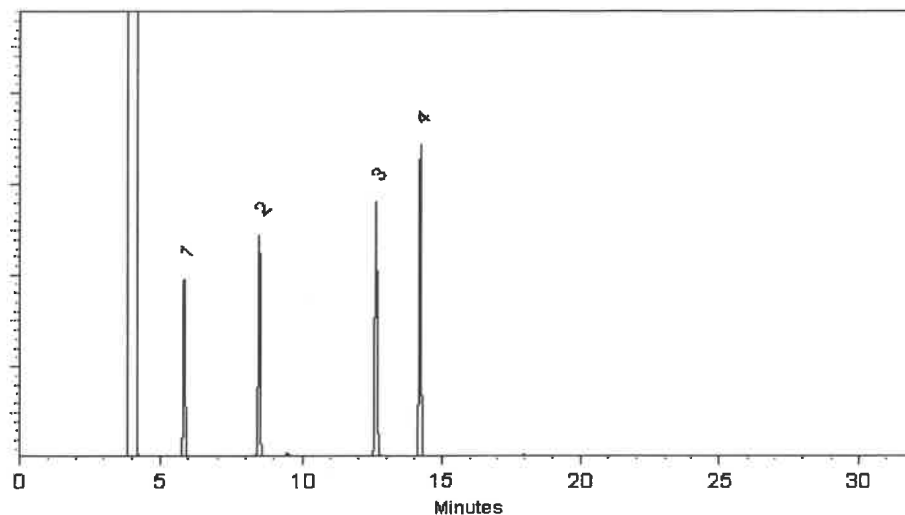
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

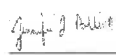


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
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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%.

- 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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V14697-to-14726



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

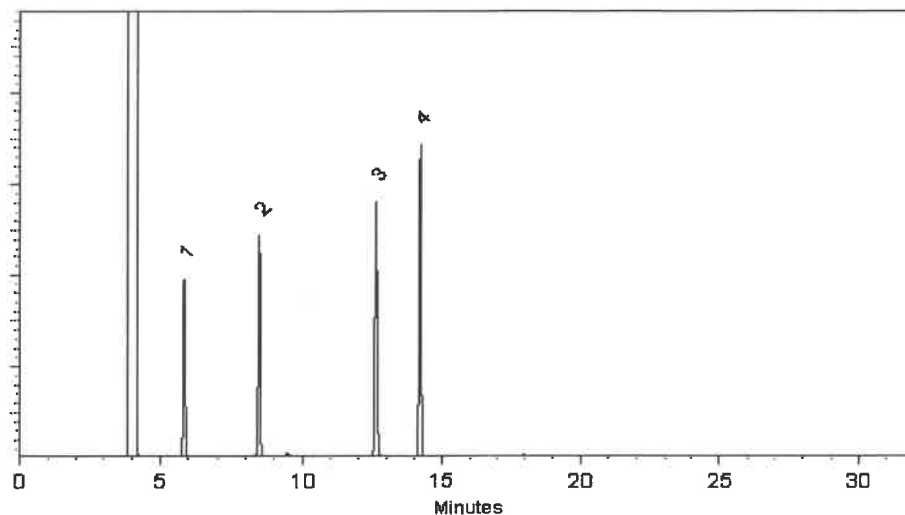
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

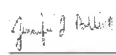


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

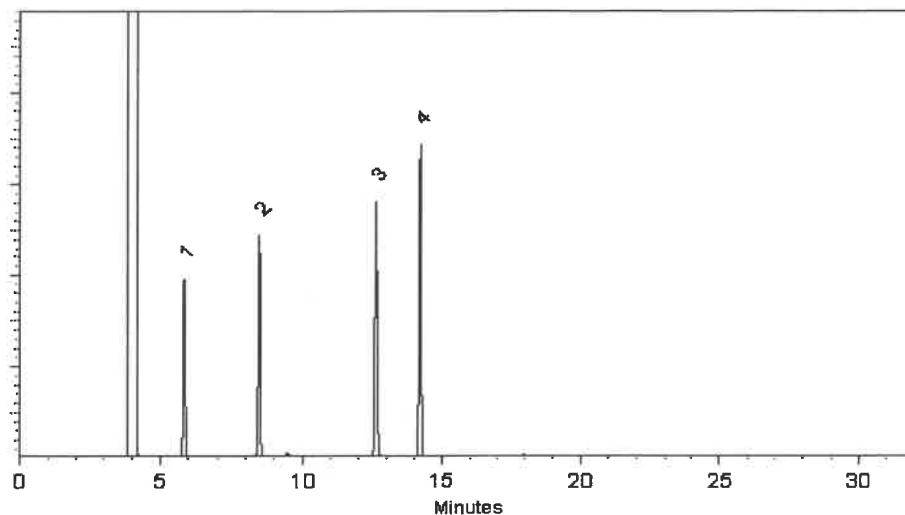
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

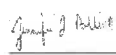


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

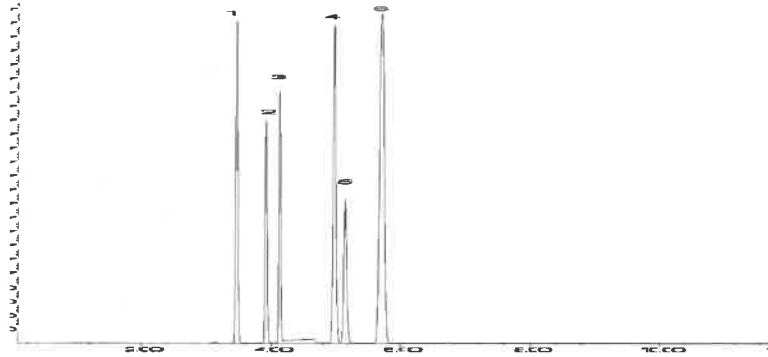
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

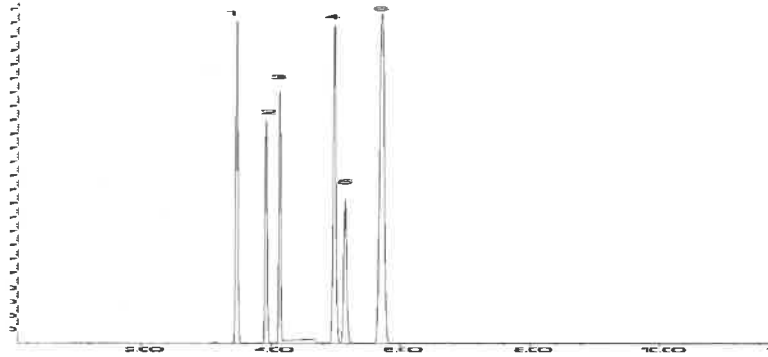
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

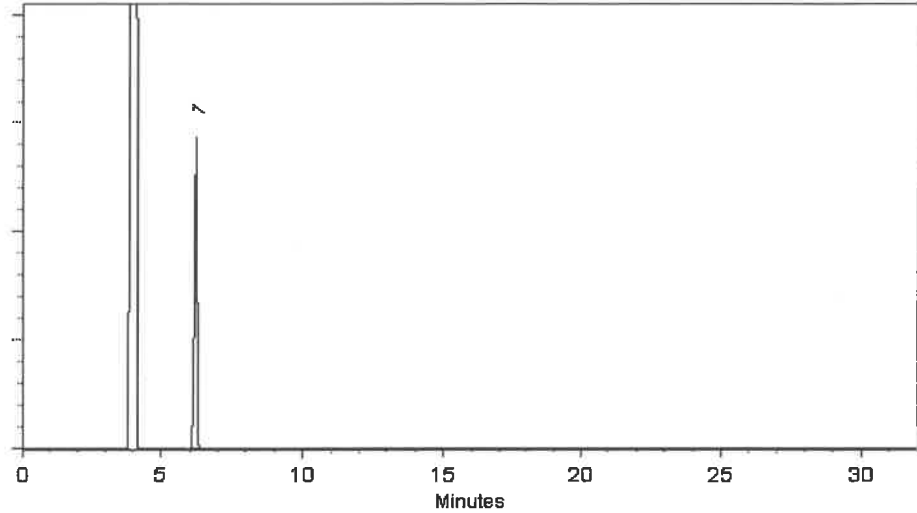
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A. O. E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555584 **Lot No.:** A0219012

Description : Custom CLP VOA Surrogate Standard Mix

Custom CLP VOA Surrogate Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,228.0 µg/mL	+/- 1,428.7919
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,196.0 µg/mL	+/- 1,426.9795
3	Toluene-d8	2037-26-5	PR-34141	99%	25,228.0 µg/mL	+/- 1,428.7919

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Jess Hoy - Operations Tech I

Date Mixed: 12-Nov-2024

Balance: 1127510105



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

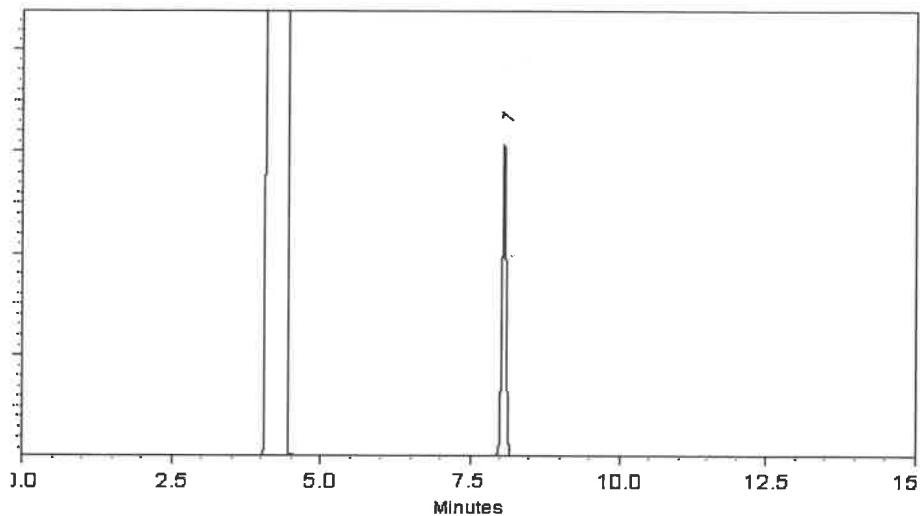
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity values are rounded to the nearest whole number.

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Fax: 1-814-353-1309

www.restek.com

2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

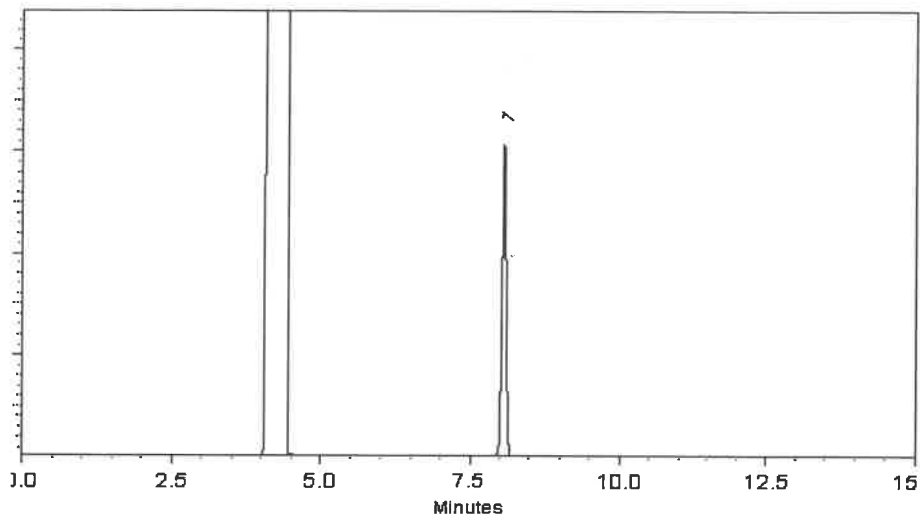
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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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:

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110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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REC 03/12/25
10 vials
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

V14885-to-V14894



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555583 **Lot No.:** A0223136

Description : Custom CLP VOA Internal Standard Mix

Custom CLP VOA Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,024.0 µg/mL	+/- 1,417.2383
2	Bromochloromethane	74-97-5	S241017RSR	99%	25,060.0 µg/mL	+/- 1,419.2772
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,048.4 µg/mL	+/- 1,418.6202

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Penelope Riglin - Operations Tech I

Date Mixed: 10-Mar-2025

Balance: 1128342314

REVIEWED
By: [Signature] Date: 10-Mar-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



V14883
V14884

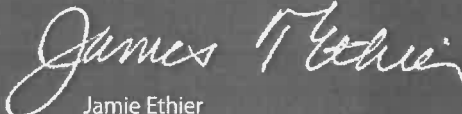
Material No.: 9077-02
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Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

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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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700
Page 1 of 1



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number:

Q1804/05

COC Number:

CLIENT INFORMATION			PROJECT INFORMATION				BILLING INFORMATION													
COMPANY: Tully Environmental Inc.			PROJECT NAME: Transfer Station SPDES				BILL TO: Same					PO#								
ADDRESS: 57 Seaview Blvd			PROJECT #: 252113 LOCATION:				ADDRESS:													
CITY: Pt Washington STATE: NY ZIP: 11050			PROJECT MANAGER:				CITY:					STATE: ZIP:								
ATTENTION: Dean Devoe			E-MAIL:				ATTENTION:					PHONE:								
PHONE: 718 446 7000 FAX:			PHONE: FAX:																	
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION				ANALYSIS													
FAX: _____ DAYS*			☒ RESULTS ONLY ☐ USEPA CLP																	
HARD COPY: _____ DAYS*			☐ RESULTS + QC ☐ New York State ASP "B"																	
EDD _____ DAYS*			☐ New Jersey REDUCED ☐ New York State ASP "A"																	
* TO BE APPROVED BY ALLIANCE			☐ New Jersey CLP ☐ Other _____																	
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS			☐ EDD Format																	
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									COMMENTS			
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9				
1.	001 Willets Pt Blvd (Apr)	W		X	4/10/25	145	9	X	X	X	X	X	X							
2.	002 35th Ave (Apr)	W		X	4/10/25	145	9	X	X	X	X	X	X							
3.																				
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY																				
RELINQUISHED BY SAMPLER		DATE/TIME	RECEIVED BY		Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp _____ MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: _____															
1. D Devoe		10, 2025	1.		Comments:															
RELINQUISHED BY		DATE/TIME	RECEIVED BY																	
2.			2.																	
RELINQUISHED BY		DATE/TIME	RECEIVED FOR LAB BY		SHIPPED VIA: CLIENT: ☐ H: ALLIANCE: ☐															
3.			3.		Page _____ of _____															
WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY																				

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1804	TULL01	Order Date : 4/14/2025 12:12:00 PM	Project Mgr :
Client Name : Tully Environmental, Inc		Project Name : Transfer Station-SPDES	Report Type : Results Only
Client Contact : Dean Devoe		Receive DateTime : 4/14/2025 11:15:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : Tully Environmental, Inc		Purchase Order :	Hard Copy Date :
Invoice Contact : Dean Devoe			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1804-01	001-WILLETS-PT-BLVD(APR)	Water	04/10/2025	13:45	VOC-BTEX		624.1	10 Bus. Days	
Q1804-02	002-35TH-AVE(APR)	Water	04/10/2025	13:45	VOC-BTEX		624.1	10 Bus. Days	

Relinquished By :

Date / Time : 4/14/25 1230

Received By :

Date / Time : 4/14/25 12:30

Storage Area : VOA Refridgerator Room