

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071923\
 Data File : VN078577.D
 Acq On : 19 Jul 2023 13:48
 Operator : JC\MD
 Sample : 03664-04 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1013

Quant Time: Jul 20 01:32:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

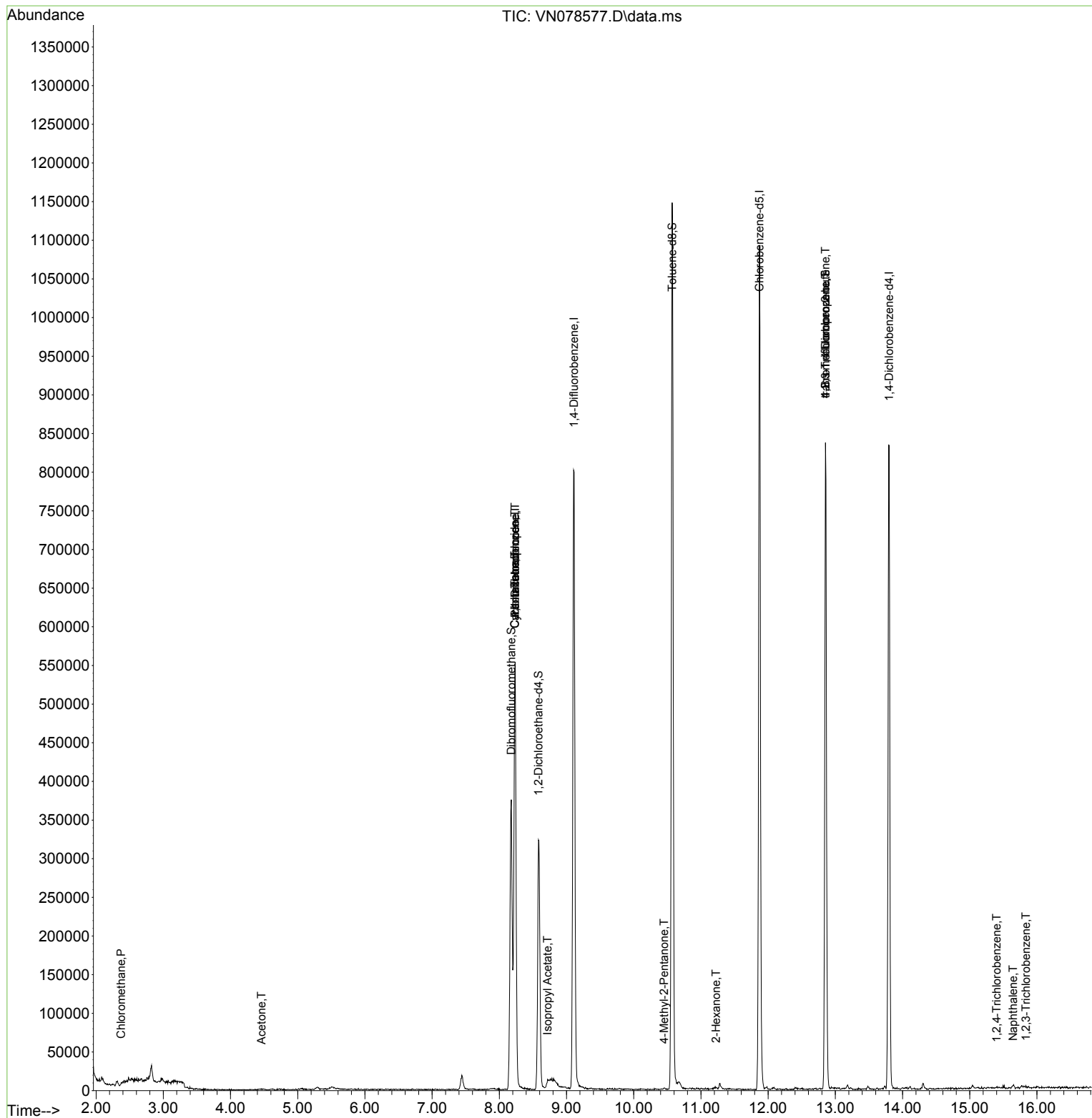
Internal Standards						
1) Pentafluorobenzene	8.236	168	407026	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	727610	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	663639	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	235425	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	268701	49.243	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.480%
35) Dibromofluoromethane	8.177	113	269796	54.623	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	109.240%
50) Toluene-d8	10.571	98	835595	44.782	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	89.560%
62) 4-Bromofluorobenzene	12.853	95	292464	50.887	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	101.780%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1782	0.329	ug/l #	79
5) Bromomethane	2.930	94	82	Below Cal	#	4
6) Chloroethane	3.142	64	396	Below Cal	#	86
16) Acetone	4.459	43	1334	0.785	ug/l #	83
20) Methylene Chloride	5.300	84	2022	Below Cal	#	70
31) Cyclohexane	8.230	56	9494	1.287	ug/l #	15
36) 1,1-Dichloropropene	8.236	75	32036	4.492	ug/l #	49
38) Carbon Tetrachloride	8.230	117	42178	5.442	ug/l #	17
43) Isopropyl Acetate	8.718	43	6558	0.670	ug/l #	49
51) 4-Methyl-2-Pentanone	10.453	43	1189	0.204	ug/l #	31
59) 2-Hexanone	11.224	43	2363	0.571	ug/l #	35
75) 1,1,2,2-Tetrachloroethane	12.941	83	380	Below Cal	#	61
76) 1,2,3-Trichloropropane	12.853	75	154285	27.113	ug/l #	1
77) Bromobenzene	12.982	156	284	Below Cal	#	26
81) trans-1,4-Dichloro-2-b...	12.853	75	154285	71.247	ug/l #	15
90) Hexachloroethane	14.341	117	175	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.994	75	59	Below Cal	#	4
93) 1,2,4-Trichlorobenzene	15.400	180	619	0.229	ug/l #	77
94) Hexachlorobutadiene	15.512	225	260	Below Cal	#	42
95) Naphthalene	15.647	128	4140	0.449	ug/l #	81
96) 1,2,3-Trichlorobenzene	15.835	180	965	0.311	ug/l #	42

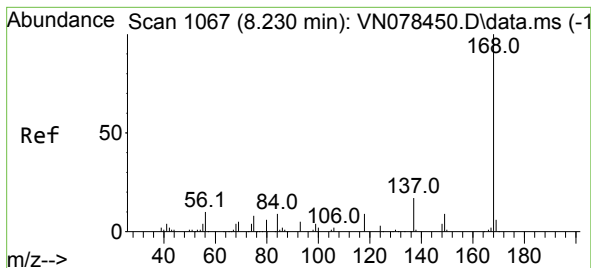
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN078577.D

Acq: 19 Jul 2023 13:48

Instrument :

MSVOA_N

ClientSampleId :

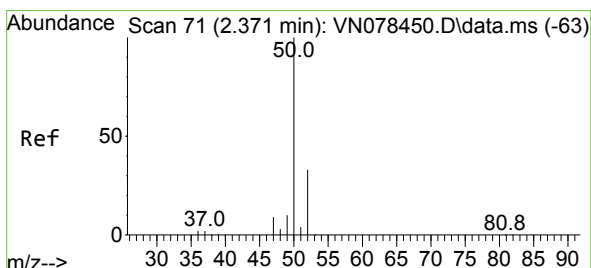
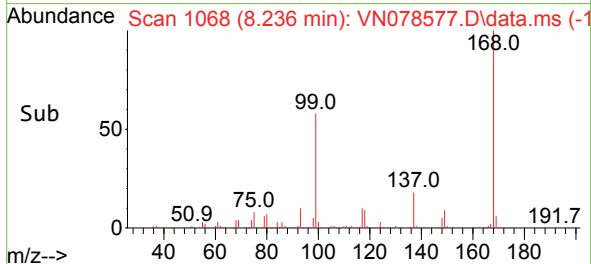
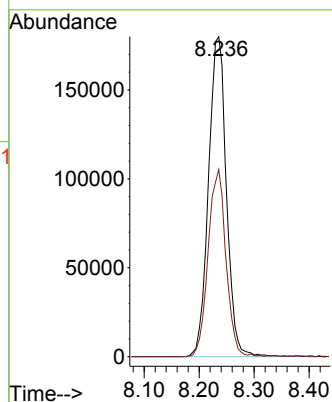
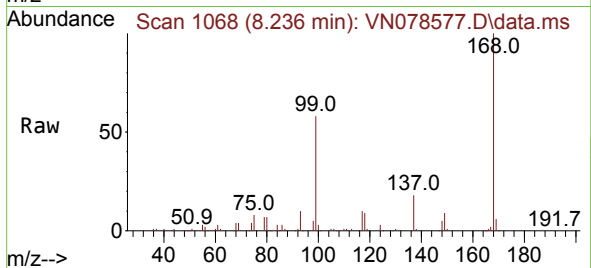
AUD-1013

Tgt Ion:168 Resp: 407026

Ion Ratio Lower Upper

168 100

99 58.4 53.0 79.6



#3

Chloromethane

Concen: 0.329 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078577.D

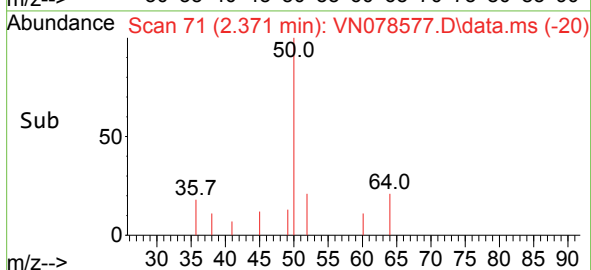
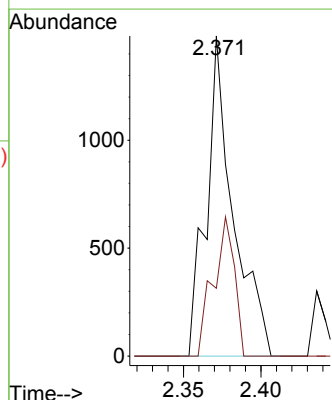
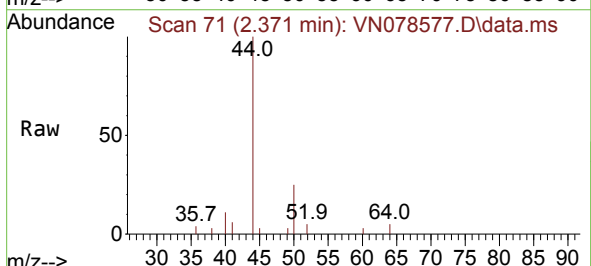
Acq: 19 Jul 2023 13:48

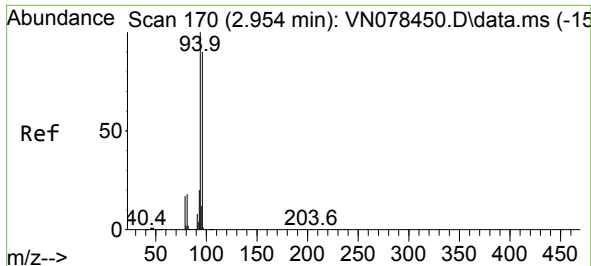
Tgt Ion: 50 Resp: 1782

Ion Ratio Lower Upper

50 100

52 21.2 26.5 39.7#

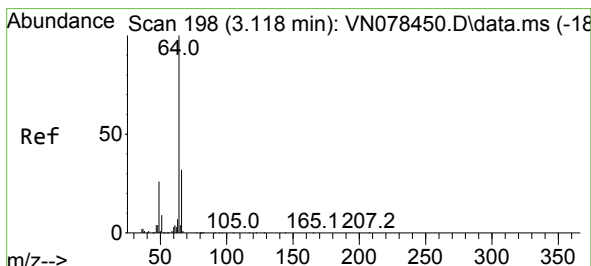
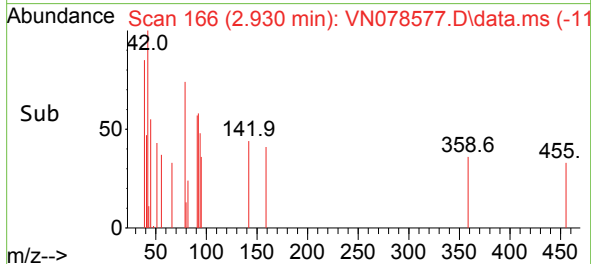
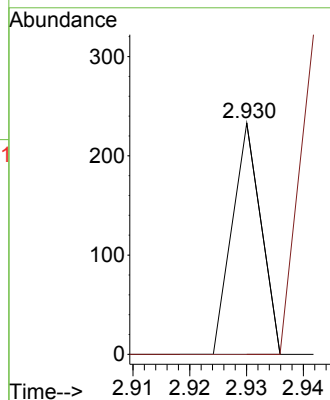
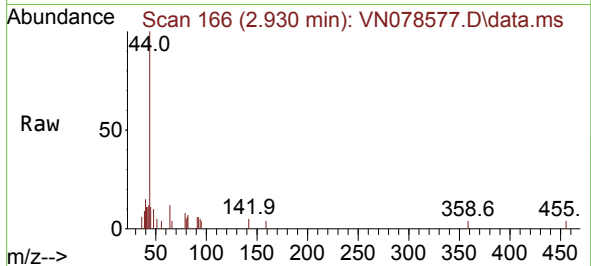




#5
Bromomethane
Concen: Below Cal
RT: 2.930 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

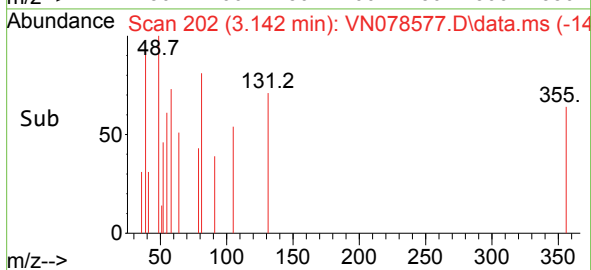
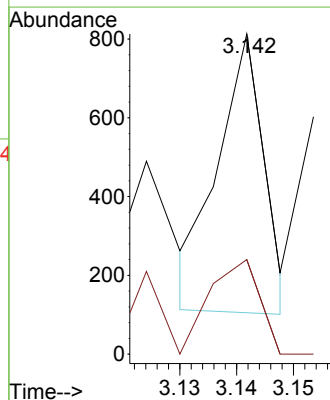
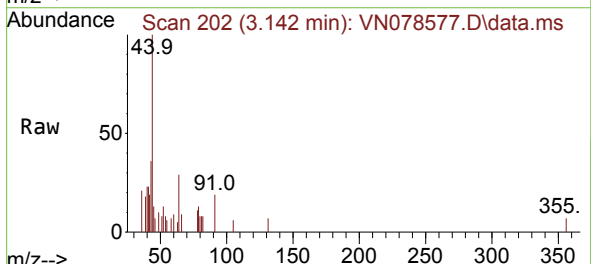
Instrument :
MSVOA_N
ClientSampleId :
AUD-1013

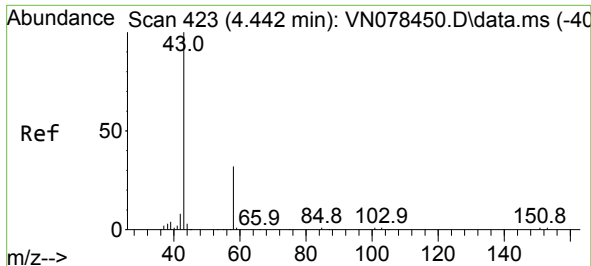
Tgt Ion: 94 Resp: 82
Ion Ratio Lower Upper
94 100
96 0.0 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.142 min Scan# 202
Delta R.T. 0.024 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

Tgt Ion: 64 Resp: 396
Ion Ratio Lower Upper
64 100
66 39.5 25.4 38.2#

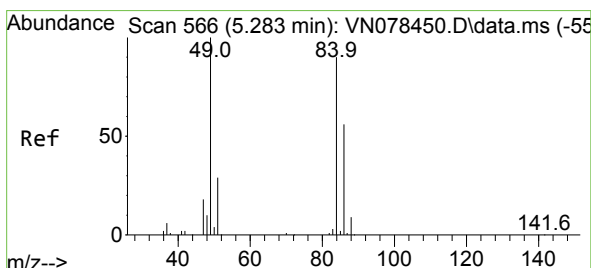
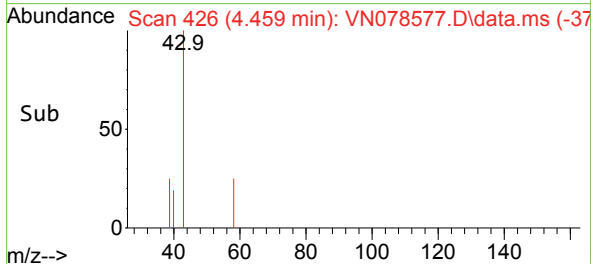
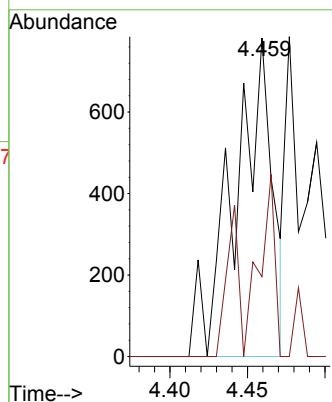
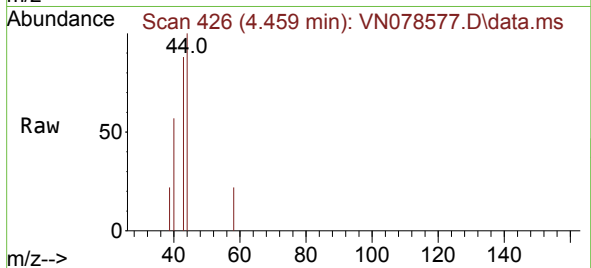




#16
Acetone
Concen: 0.785 ug/l
RT: 4.459 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

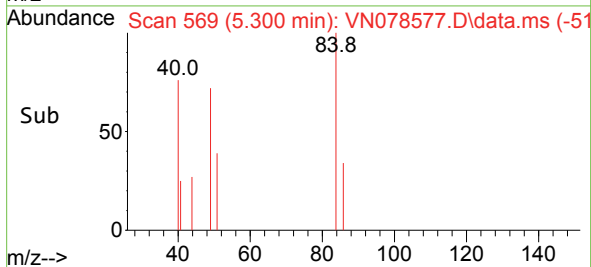
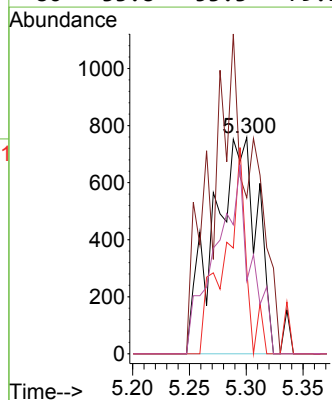
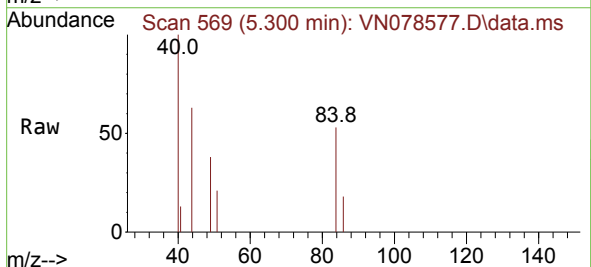
Instrument :
MSVOA_N
ClientSampleId :
AUD-1013

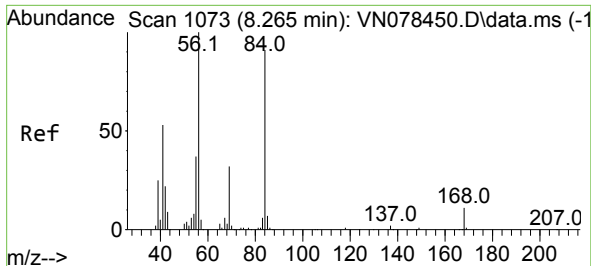
Tgt Ion: 43 Resp: 1334
Ion Ratio Lower Upper
43 100
58 25.1 28.0 42.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.300 min Scan# 569
Delta R.T. 0.017 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

Tgt Ion: 84 Resp: 2022
Ion Ratio Lower Upper
84 100
49 72.2 79.7 119.5#
51 38.9 25.2 37.8#
86 33.8 53.3 79.9#

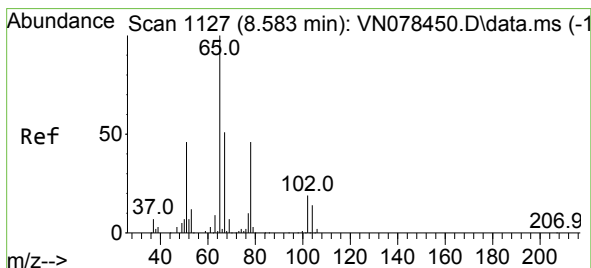
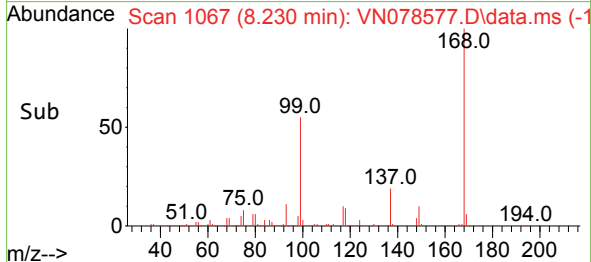
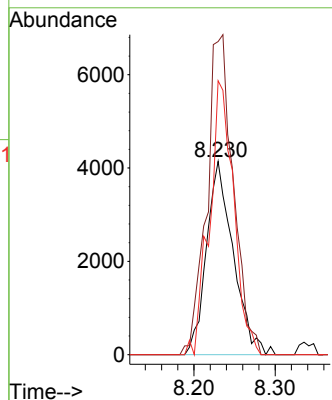
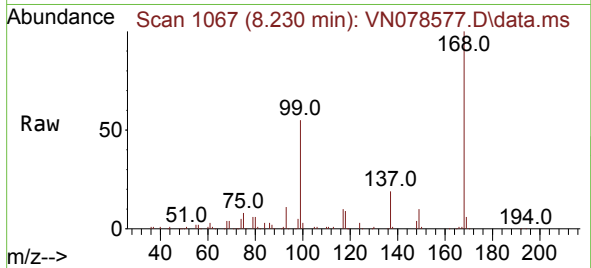




#31
Cyclohexane
Concen: 1.287 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

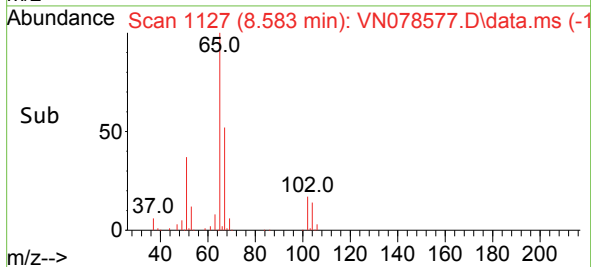
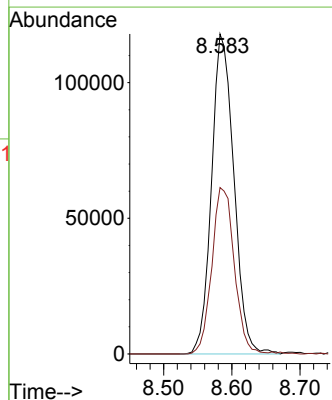
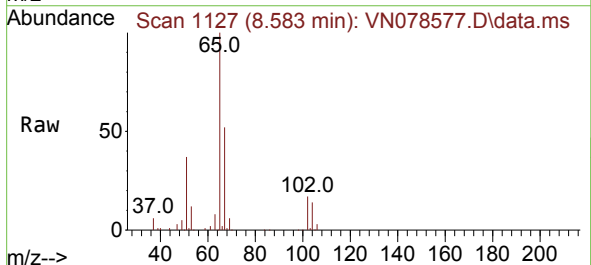
Instrument :
MSVOA_N
ClientSampleId :
AUD-1013

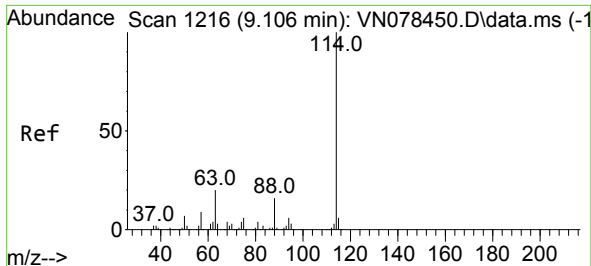
Tgt Ion: 56 Resp: 9494
Ion Ratio Lower Upper
56 100
69 162.0 26.8 40.2#
84 141.8 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 49.243 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

Tgt Ion: 65 Resp: 268701
Ion Ratio Lower Upper
65 100
67 52.3 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN078577.D

Acq: 19 Jul 2023 13:48

Instrument :

MSVOA_N

ClientSampleId :

AUD-1013

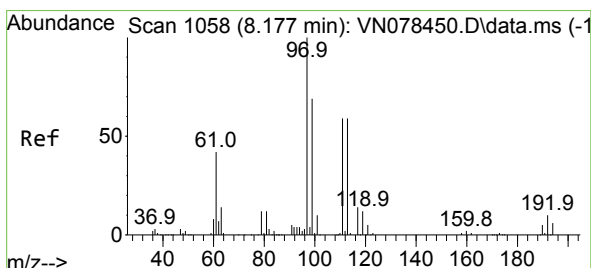
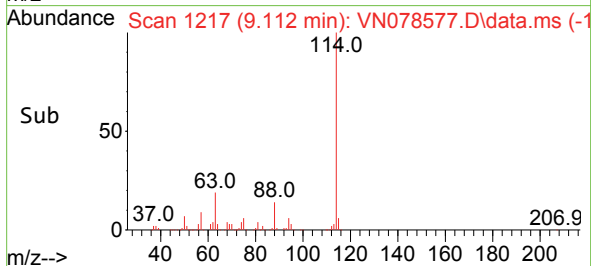
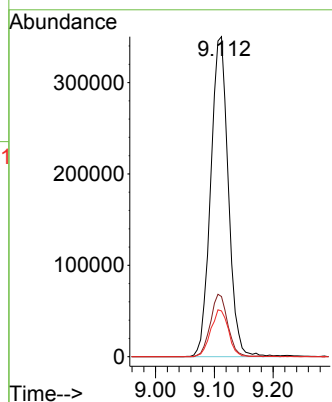
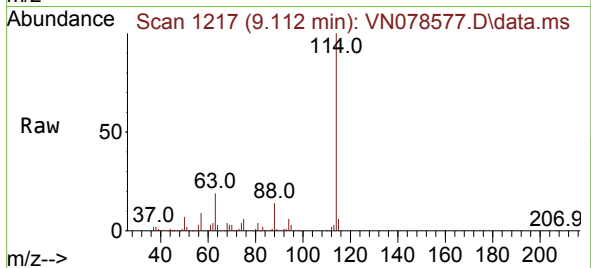
Tgt Ion:114 Resp: 727610

Ion Ratio Lower Upper

114 100

63 18.8 0.0 36.4

88 14.3 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.623 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078577.D

Acq: 19 Jul 2023 13:48

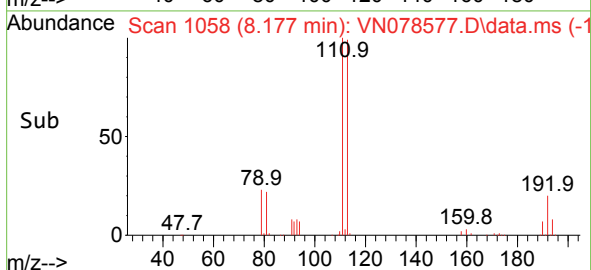
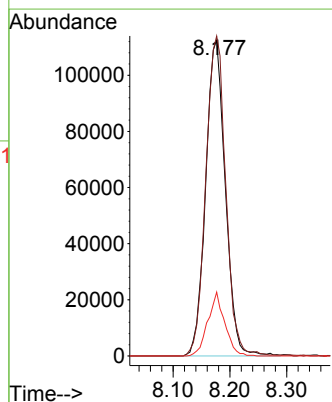
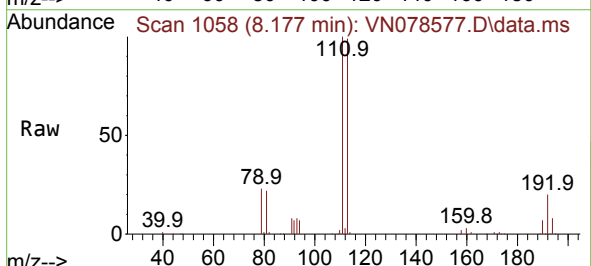
Tgt Ion:113 Resp: 269796

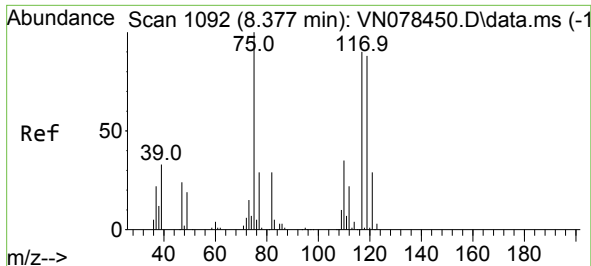
Ion Ratio Lower Upper

113 100

111 102.8 82.6 123.8

192 17.4 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.492 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN078577.D

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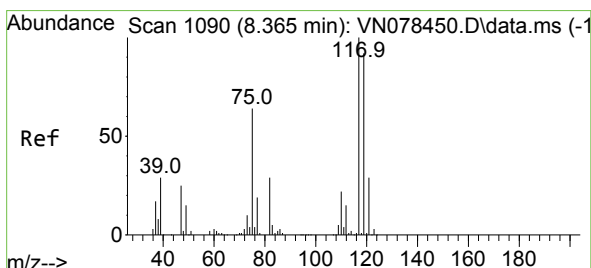
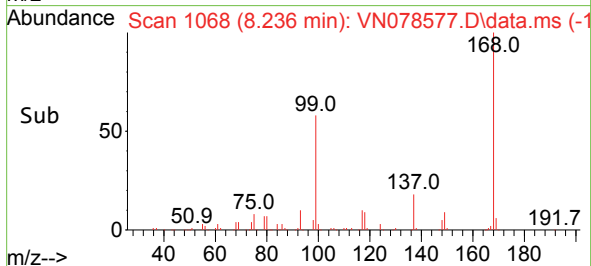
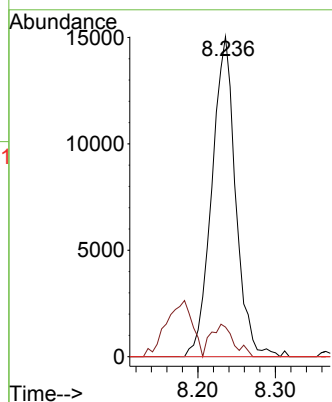
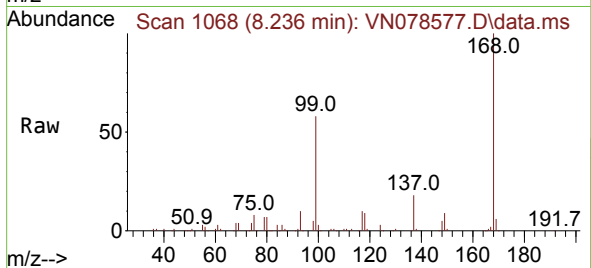
Tgt Ion: 75 Resp: 32036

Ion Ratio Lower Upper

75 100

110 9.7 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.442 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.135 min

Lab File: VN078577.D

Acq: 19 Jul 2023 13:48

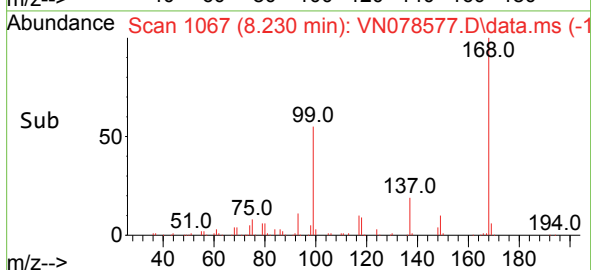
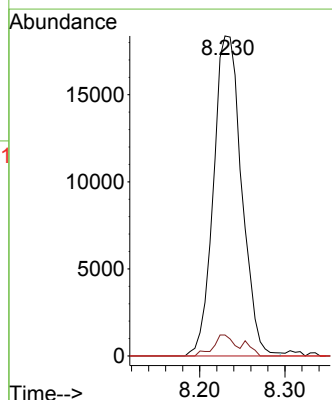
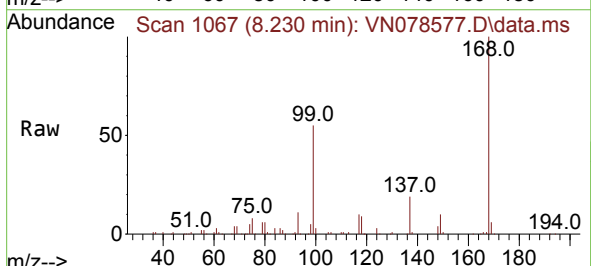
Tgt Ion: 117 Resp: 42178

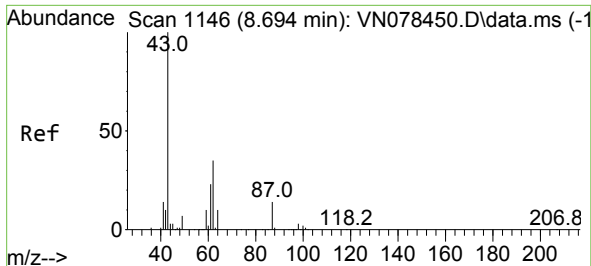
Ion Ratio Lower Upper

117 100

119 6.6 77.3 115.9#

121 0.0 23.3 34.9#

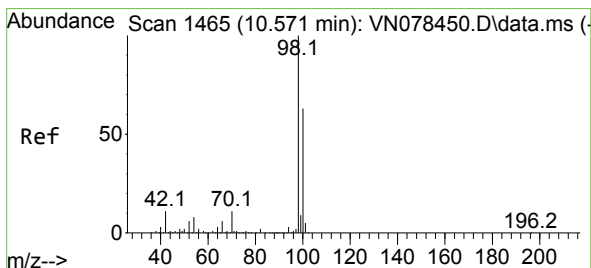
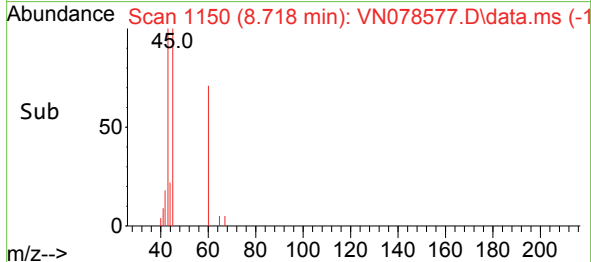
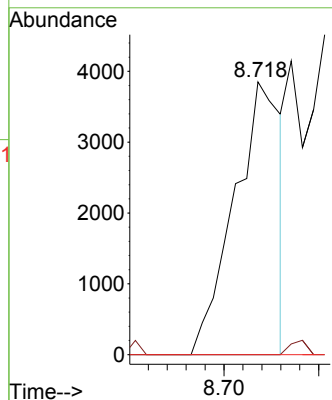
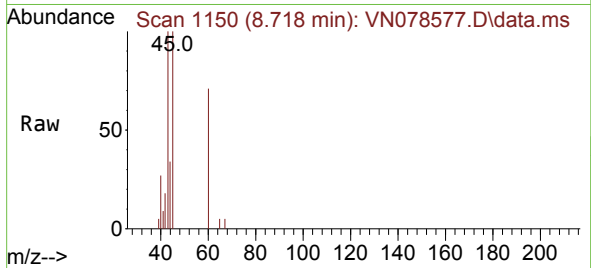




#43
Isopropyl Acetate
Concen: 0.670 ug/l
RT: 8.718 min Scan# 1150
Delta R.T. 0.024 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

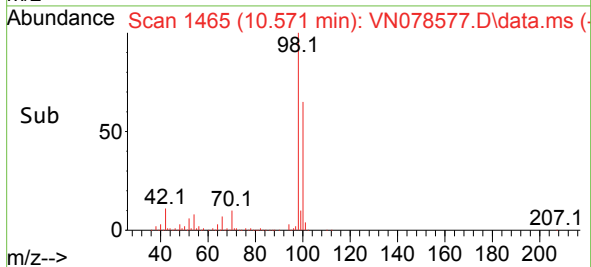
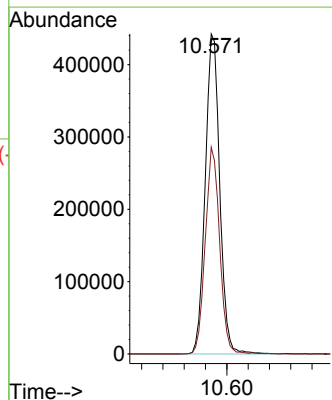
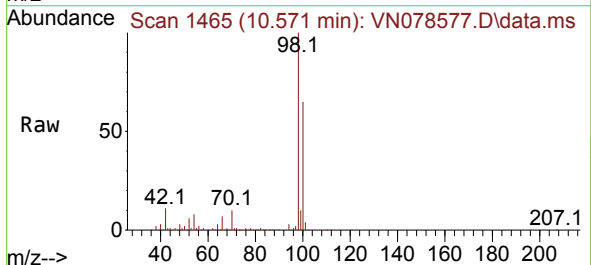
Instrument :
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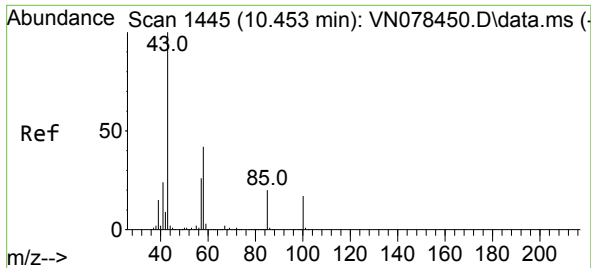
Tgt Ion: 43 Resp: 6558
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#50
Toluene-d8
Concen: 44.782 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

Tgt Ion: 98 Resp: 835595
Ion Ratio Lower Upper
98 100
100 64.1 52.0 78.0

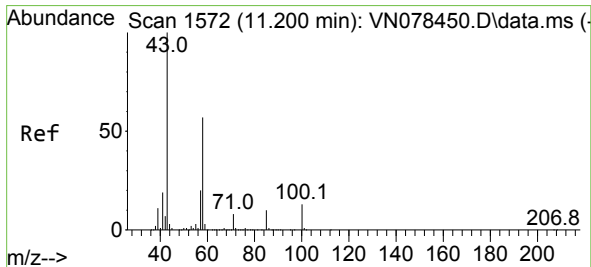
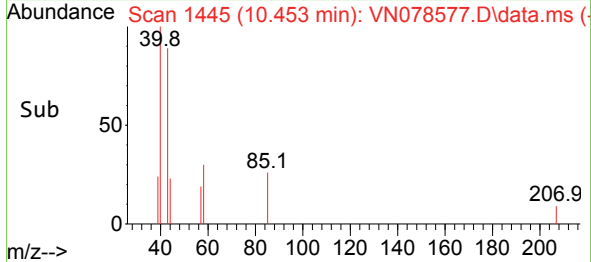
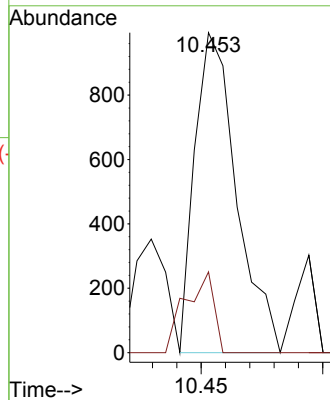
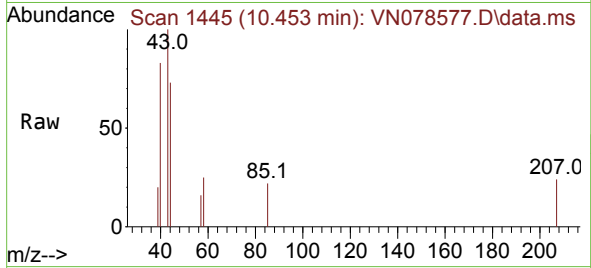




#51
4-Methyl-2-Pentanone
Concen: 0.204 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

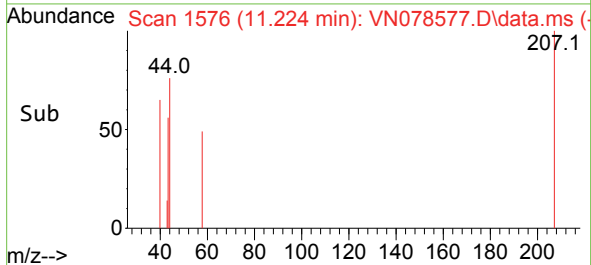
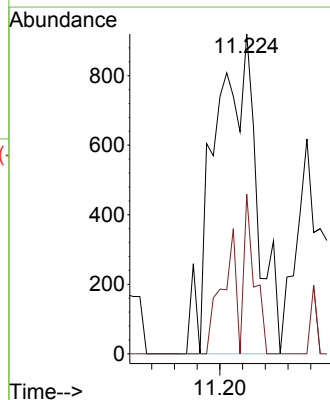
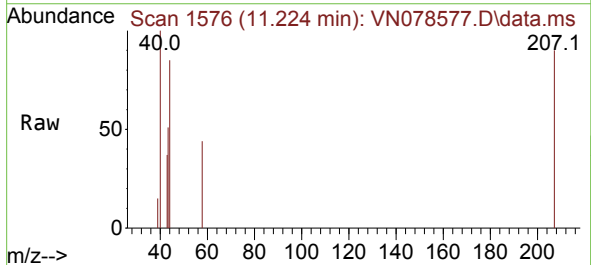
Instrument :
MSVOA_N
ClientSampleId :
AUD-1013

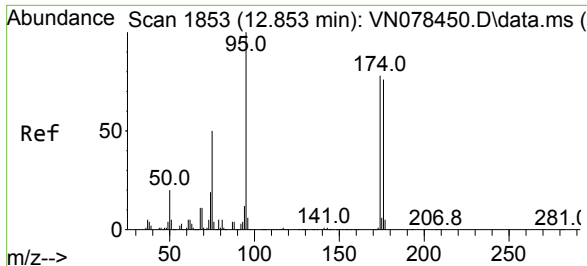
Tgt Ion: 43 Resp: 1189
Ion Ratio Lower Upper
43 100
58 0.0 36.6 54.8#



#59
2-Hexanone
Concen: 0.571 ug/l
RT: 11.224 min Scan# 1576
Delta R.T. 0.024 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

Tgt Ion: 43 Resp: 2363
Ion Ratio Lower Upper
43 100
58 12.7 31.7 95.1#

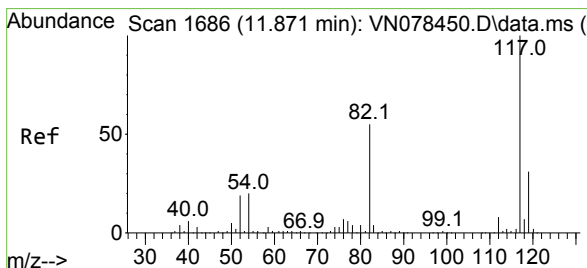
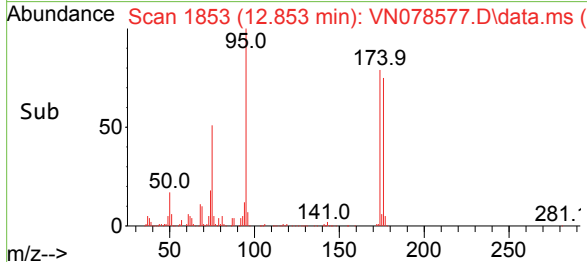
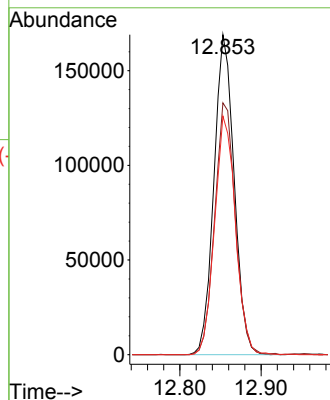
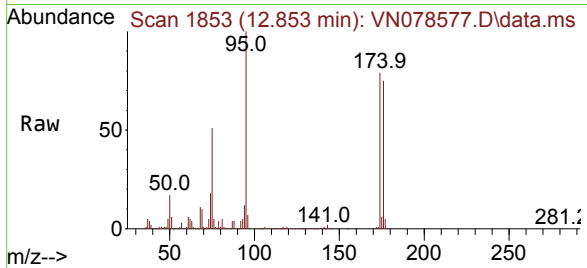




#62
4-Bromofluorobenzene
Concen: 50.887 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

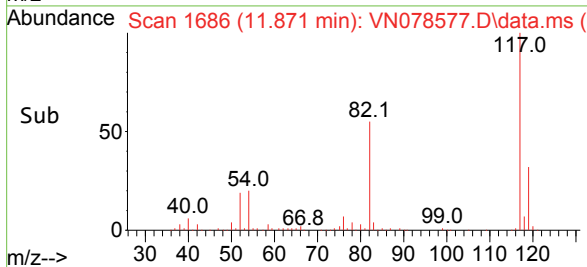
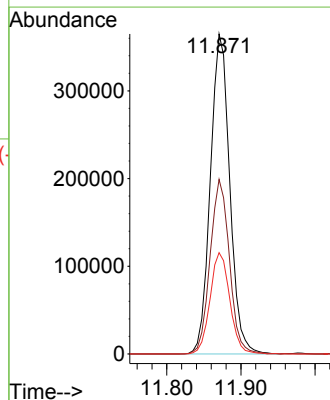
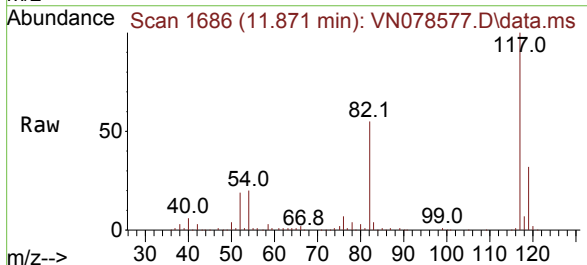
Instrument :
MSVOA_N
ClientSampleId :
AUD-1013

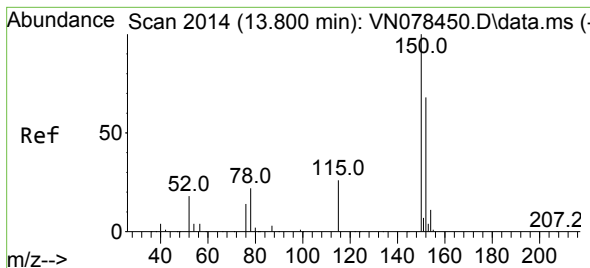
Tgt Ion: 95 Resp: 292464
Ion Ratio Lower Upper
95 100
174 80.6 0.0 143.8
176 77.0 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

Tgt Ion: 117 Resp: 663639
Ion Ratio Lower Upper
117 100
82 54.6 44.0 66.0
119 31.7 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN078577.D

Acq: 19 Jul 2023 13:48

Instrument :

MSVOA_N

ClientSampleId :

AUD-1013

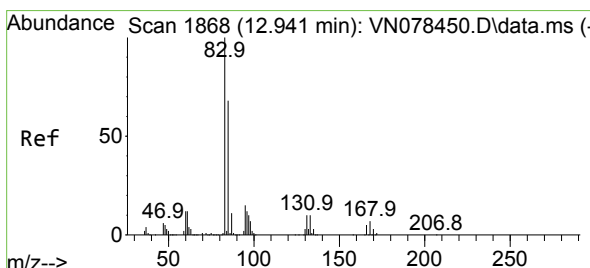
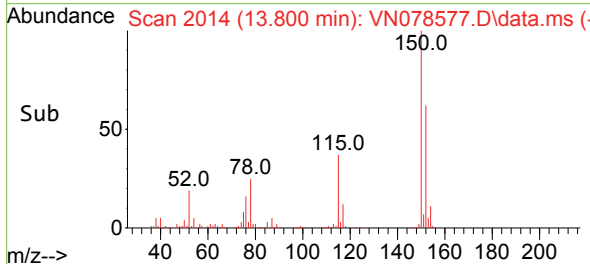
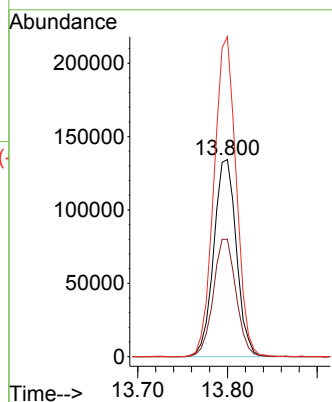
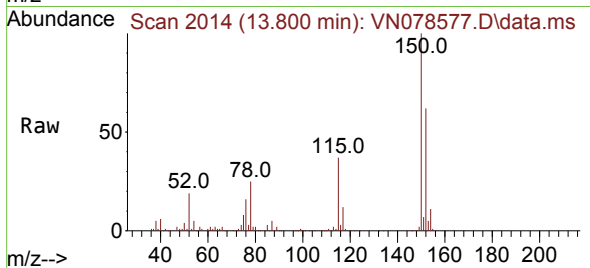
Tgt Ion:152 Resp: 235425

Ion Ratio Lower Upper

152 100

115 60.1 32.3 96.8

150 159.6 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.941 min Scan# 1868

Delta R.T. 0.000 min

Lab File: VN078577.D

Acq: 19 Jul 2023 13:48

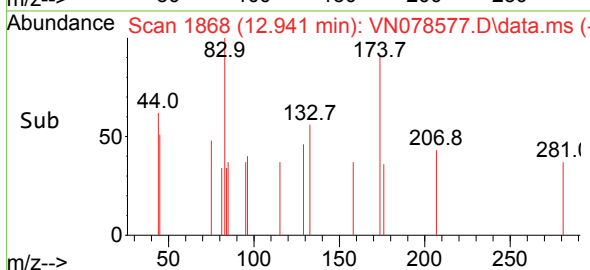
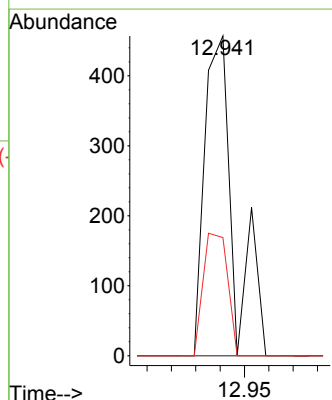
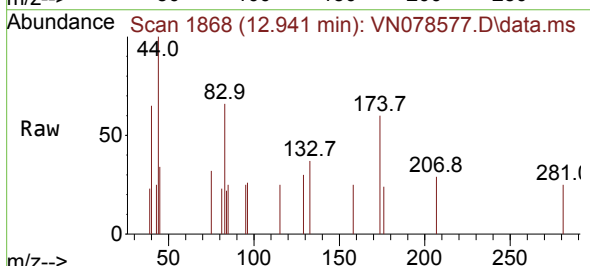
Tgt Ion: 83 Resp: 380

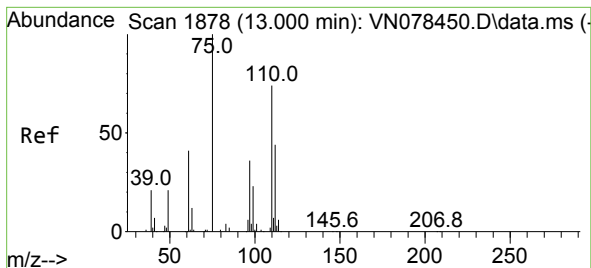
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 31.8 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 27.113 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078577.D

Acq: 19 Jul 2023 13:48

Instrument :

MSVOA_N

ClientSampleId :

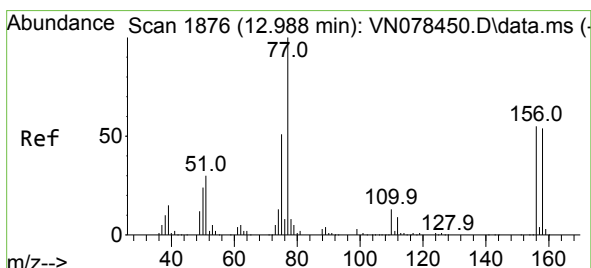
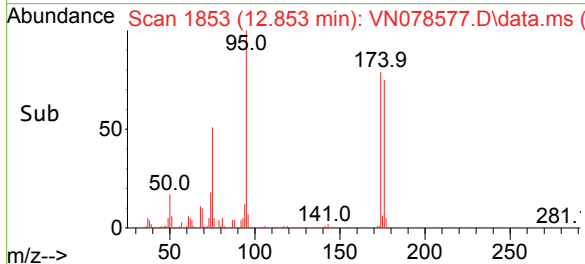
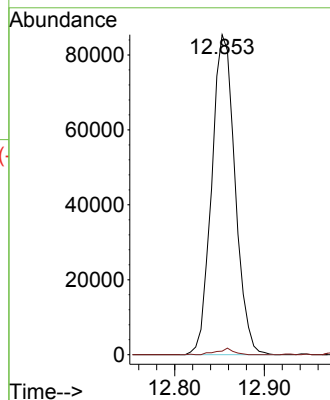
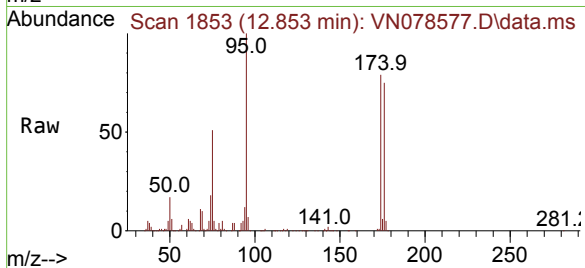
AUD-1013

Tgt Ion: 75 Resp: 154285

Ion Ratio Lower Upper

75 100

77 1.4 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.982 min Scan# 1875

Delta R.T. -0.006 min

Lab File: VN078577.D

Acq: 19 Jul 2023 13:48

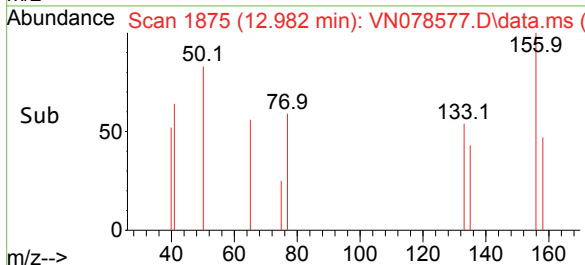
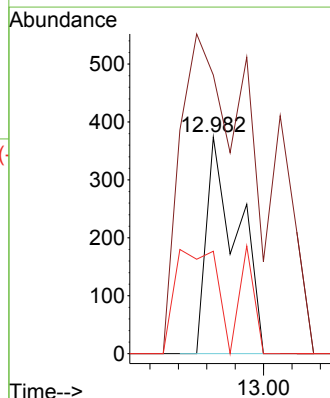
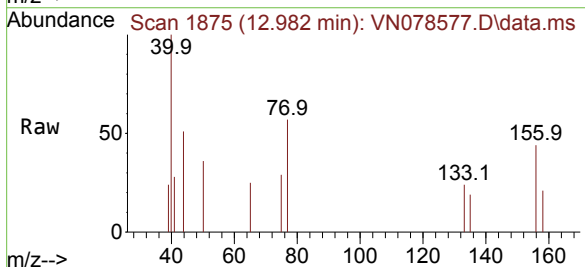
Tgt Ion:156 Resp: 284

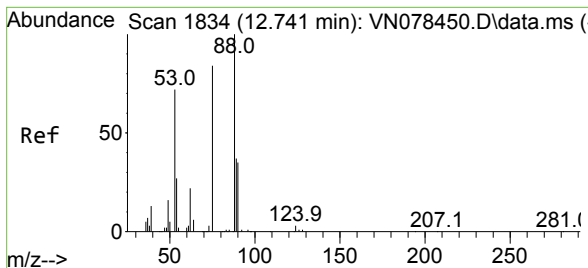
Ion Ratio Lower Upper

156 100

77 379.9 107.7 323.3#

158 87.7 48.4 145.3

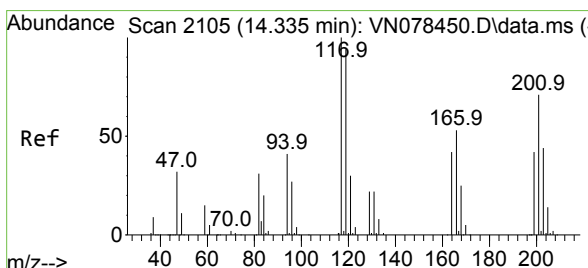
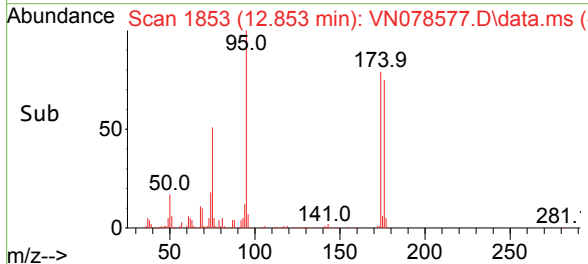
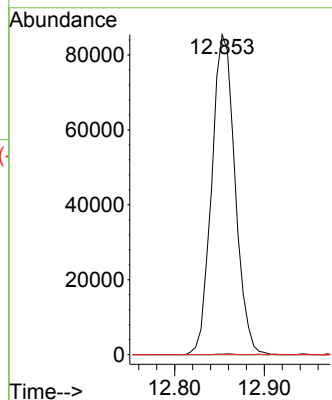
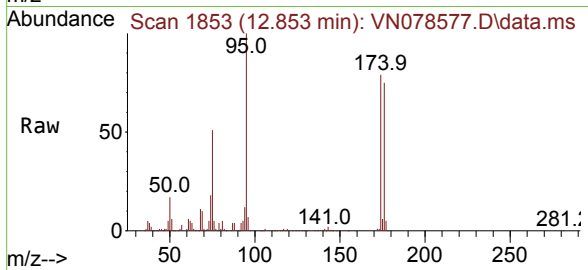




#81
trans-1,4-Dichloro-2-butene
Concen: 71.247 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

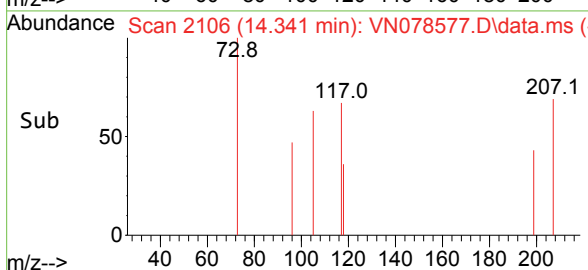
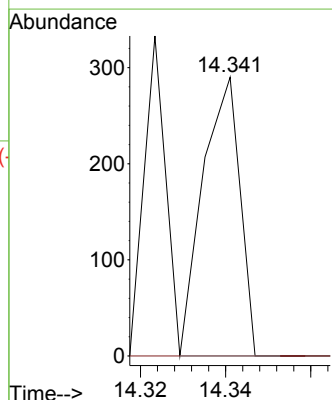
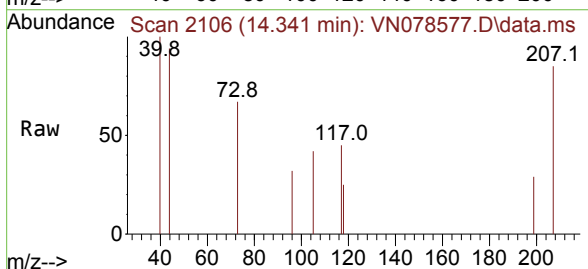
Instrument :
MSVOA_N
ClientSampleId :
AUD-1013

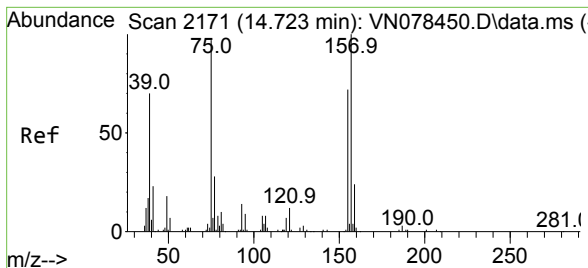
Tgt Ion: 75 Resp: 154285
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.0 38.8 58.2#



#90
Hexachloroethane
Concen: Below Cal
RT: 14.341 min Scan# 2106
Delta R.T. 0.006 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

Tgt Ion: 117 Resp: 175
Ion Ratio Lower Upper
117 100
201 0.0 29.3 88.0#

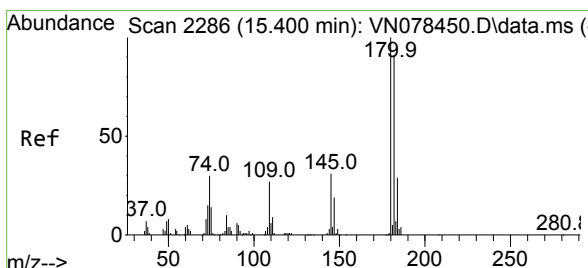
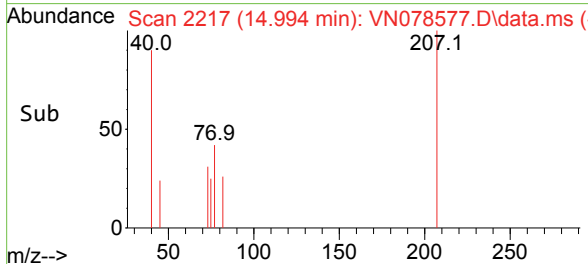
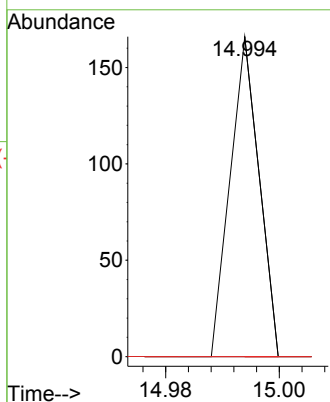
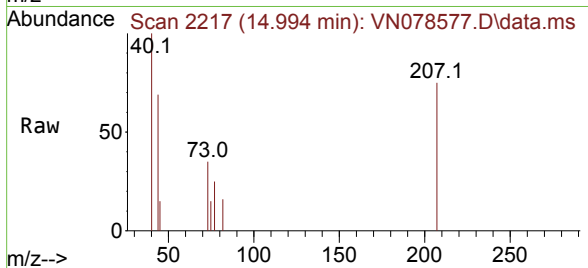




#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.994 min Scan# 2171
Delta R.T. 0.271 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

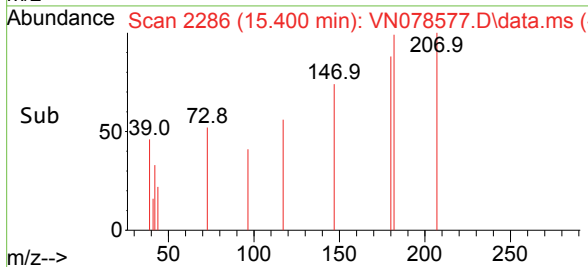
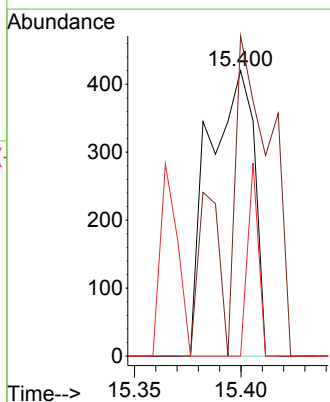
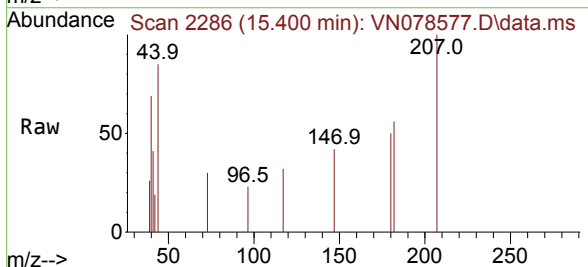
Instrument :
MSVOA_N
ClientSampleId :
AUD-1013

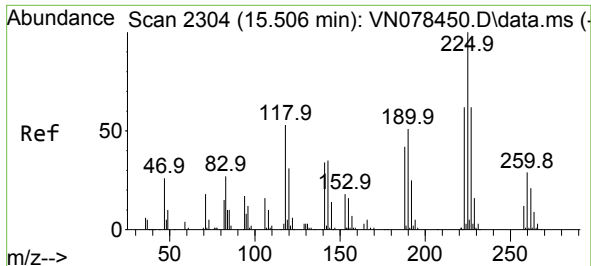
Tgt Ion: 75 Resp: 59
Ion Ratio Lower Upper
75 100
155 0.0 39.1 117.2#
157 0.0 50.3 150.9#



#93
1,2,4-Trichlorobenzene
Concen: 0.229 ug/l
RT: 15.400 min Scan# 2286
Delta R.T. -0.000 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

Tgt Ion: 180 Resp: 619
Ion Ratio Lower Upper
180 100
182 112.0 46.1 138.2
145 16.2 16.6 49.8#

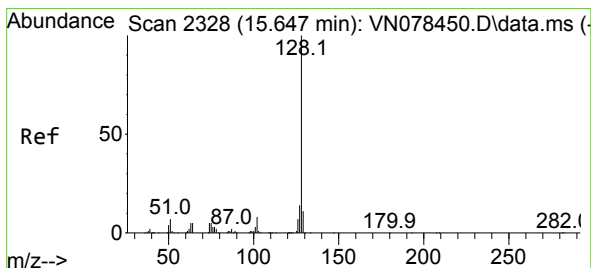
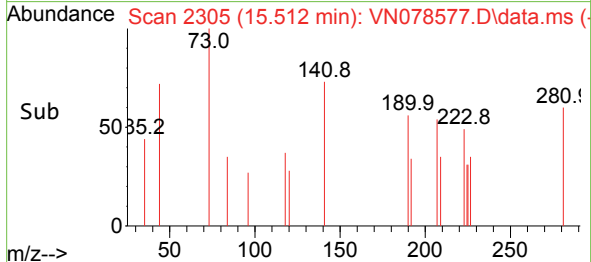
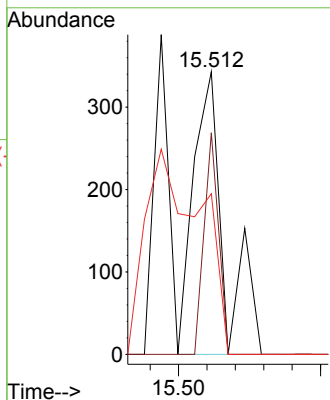
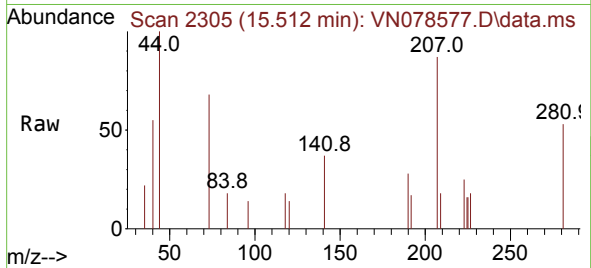




#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.512 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

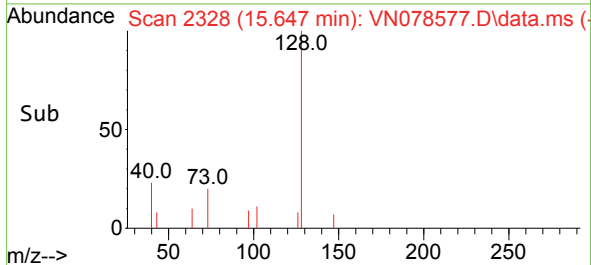
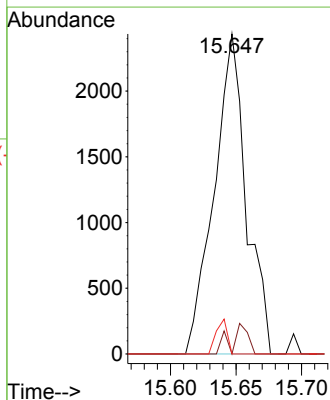
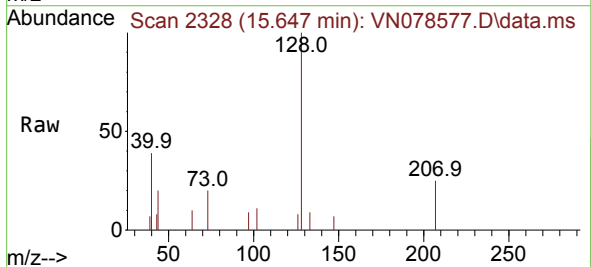
Instrument :
MSVOA_N
ClientSampleId :
AUD-1013

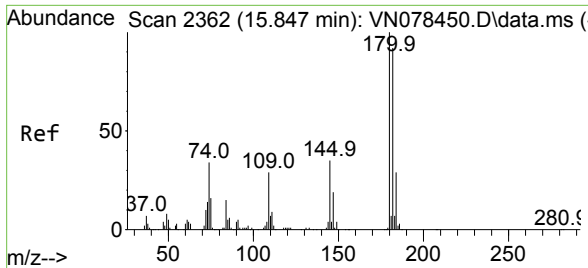
Tgt Ion:225 Resp: 260
Ion Ratio Lower Upper
225 100
223 36.5 31.3 93.8
227 0.0 31.9 95.9#



#95
Naphthalene
Concen: 0.449 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. -0.000 min
Lab File: VN078577.D
Acq: 19 Jul 2023 13:48

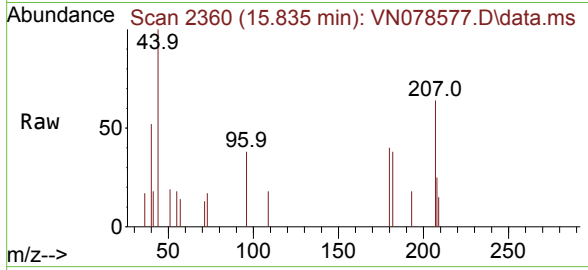
Tgt Ion:128 Resp: 4140
Ion Ratio Lower Upper
128 100
127 4.9 10.0 15.0#
129 3.8 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.311 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: VN078577.D
 Acq: 19 Jul 2023 13:48

Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1013



Tgt Ion:	180	Resp:	965
Ion Ratio	Lower	Upper	
180	100		
182	37.5	46.2	138.6#
145	0.0	17.5	52.6#

