

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071923\
 Data File : VN078579.D
 Acq On : 19 Jul 2023 14:36
 Operator : JC\MD
 Sample : 03664-06 200X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1022

Quant Time: Jul 20 01:33:40 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)

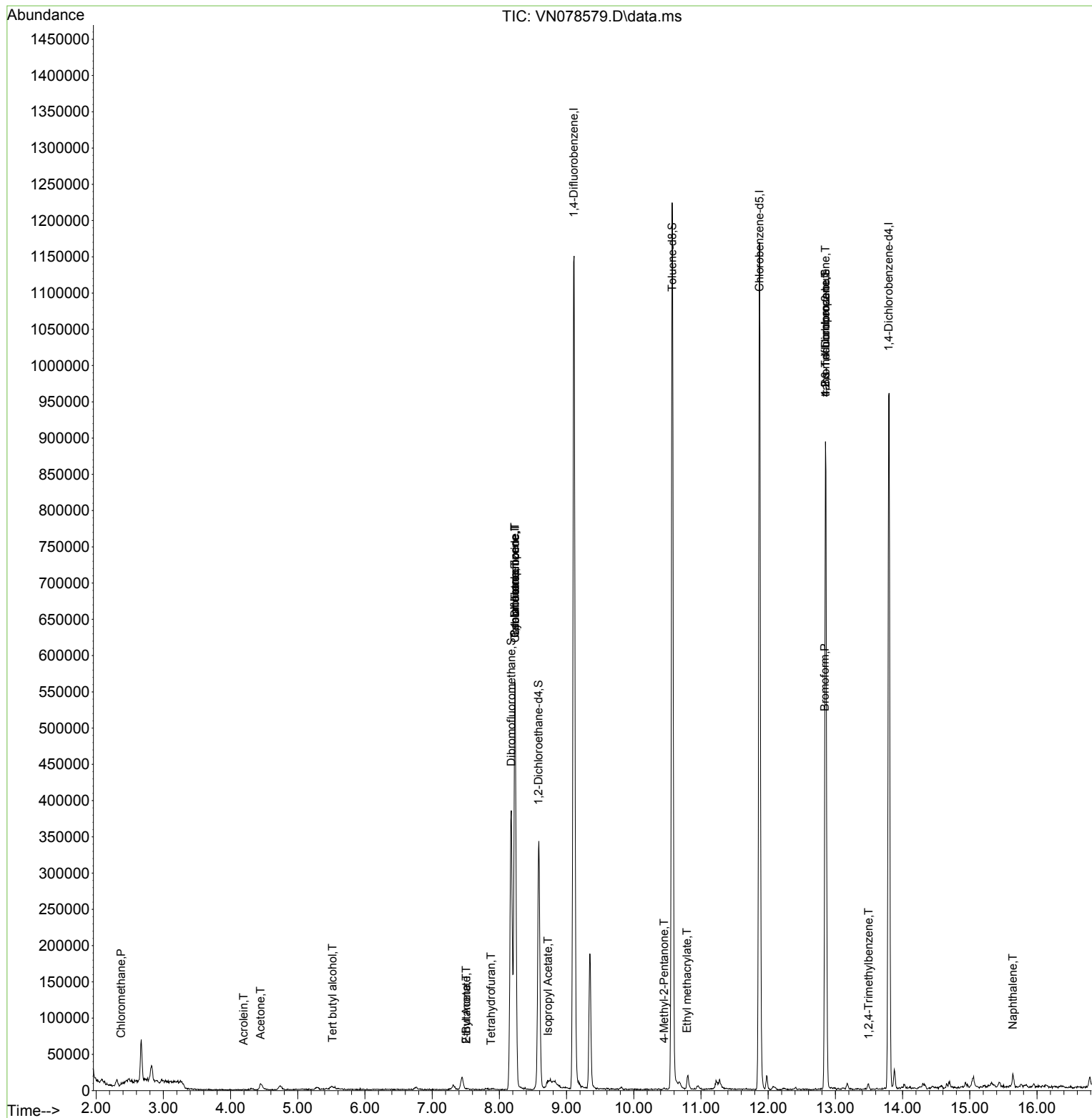
Internal Standards						
1) Pentafluorobenzene	8.230	168	406704	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	753129	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	701815	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	276687	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	274903	50.420	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.840%			
35) Dibromofluoromethane	8.177	113	278208	54.417	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.840%			
50) Toluene-d8	10.571	98	871714	45.135	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 90.280%			
62) 4-Bromofluorobenzene	12.853	95	319680	53.737	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.480%			
Target Compounds						Qvalue
3) Chloromethane	2.371	50	1497	0.276	ug/l #	58
5) Bromomethane	2.977	94	2428	Below Cal	#	54
6) Chloroethane	3.100	64	968	Below Cal	#	43
11) Tert butyl alcohol	5.518	59	3728	4.434	ug/l #	80
13) Acrolein	4.195	56	285	0.345	ug/l #	42
16) Acetone	4.447	43	15066	8.871	ug/l	97
20) Methylene Chloride	5.283	84	1898	Below Cal	#	81
25) 2-Butanone	7.506	43	2115	0.791	ug/l #	55
29) Tetrahydrofuran	7.877	42	664	0.379	ug/l #	20
31) Cyclohexane	8.230	56	9136	1.240	ug/l #	27
36) 1,1-Dichloropropene	8.230	75	32855	4.451	ug/l #	48
37) Ethyl Acetate	7.506	43	2115	0.344	ug/l #	63
38) Carbon Tetrachloride	8.235	117	43691	5.446	ug/l #	17
43) Isopropyl Acetate	8.724	43	9445	0.932	ug/l #	49
51) 4-Methyl-2-Pentanone	10.453	43	2114	0.351	ug/l #	56
56) Ethyl methacrylate	10.794	69	2527	0.339	ug/l #	1
71) Bromoform	12.841	173	1741	0.426	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.941	83	527	Below Cal	#	38
76) 1,2,3-Trichloropropane	12.853	75	172092	25.732	ug/l #	1
77) Bromobenzene	12.994	156	54	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	172092	67.619	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.494	105	5441	0.273	ug/l	94
90) Hexachloroethane	14.323	117	378	Below Cal	#	21
92) 1,2-Dibromo-3-Chloropr...	14.735	75	69	Below Cal	#	4
95) Naphthalene	15.641	128	14332	1.322	ug/l	96

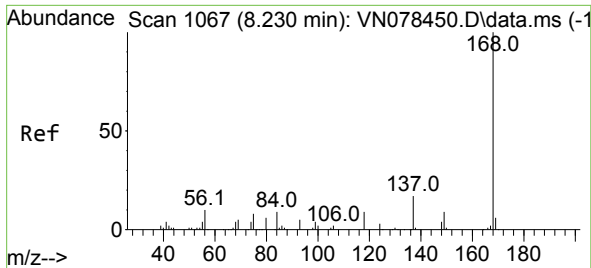
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071923\
Data File : VN078579.D
Acq On : 19 Jul 2023 14:36
Operator : JC\MD
Sample : 03664-06 200X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

Quant Time: Jul 20 01:33:40 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

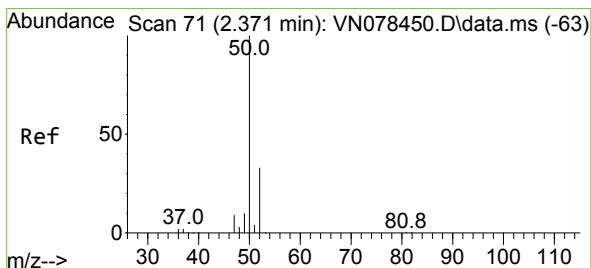
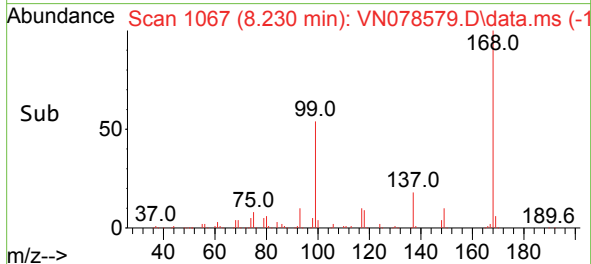
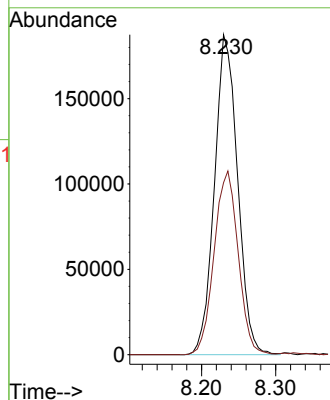
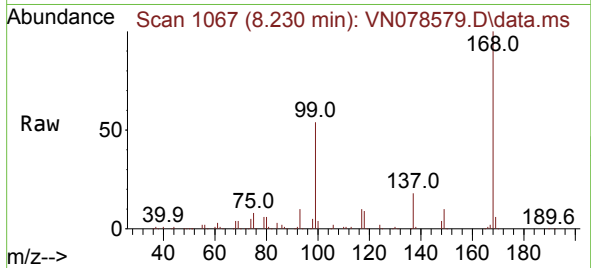




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

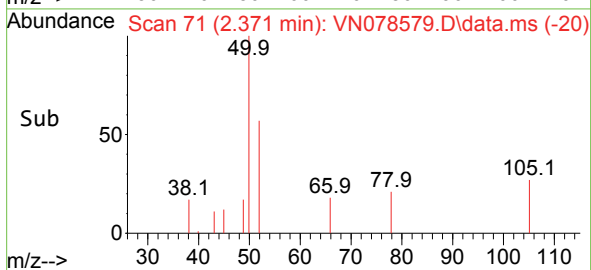
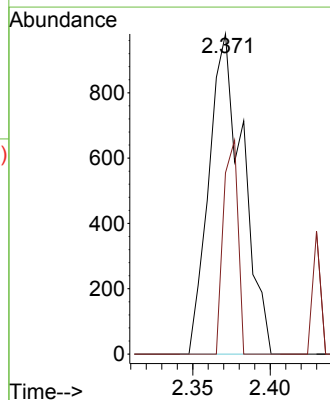
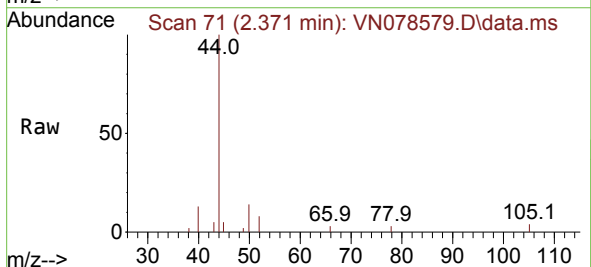
Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

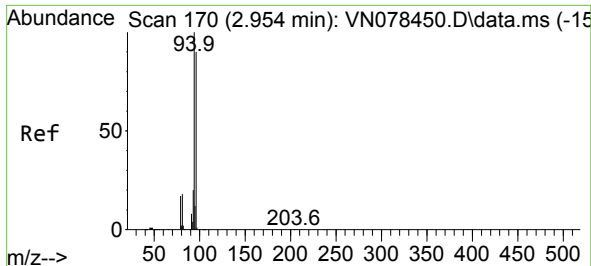
Tgt Ion:168 Resp: 406704
Ion Ratio Lower Upper
168 100
99 53.8 53.0 79.6



#3
Chloromethane
Concen: 0.276 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

Tgt Ion: 50 Resp: 1497
Ion Ratio Lower Upper
50 100
52 56.6 26.5 39.7#

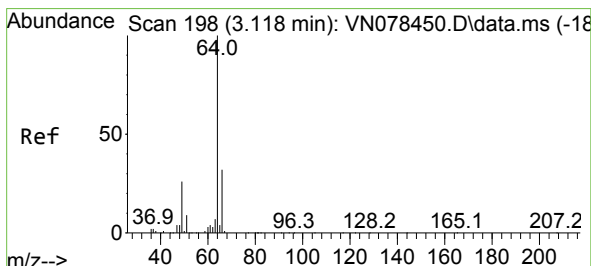
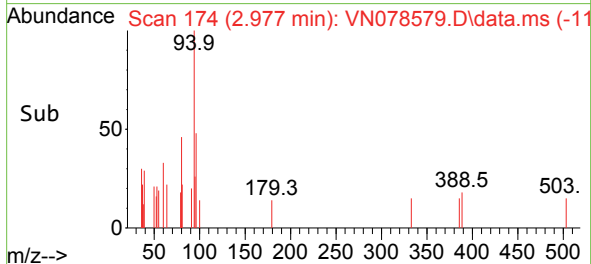
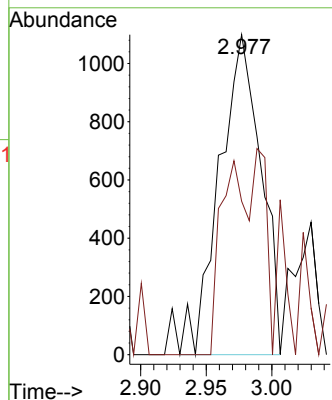
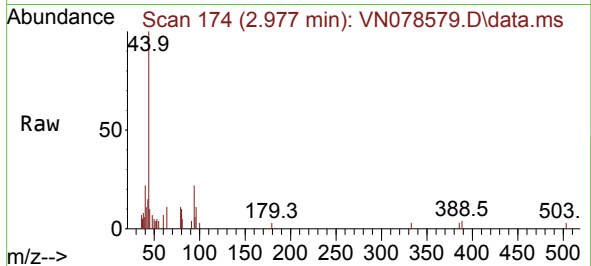




#5
Bromomethane
Concen: Below Cal
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

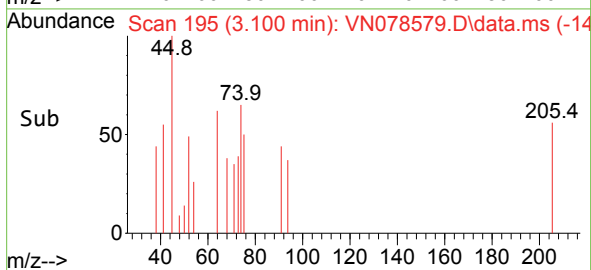
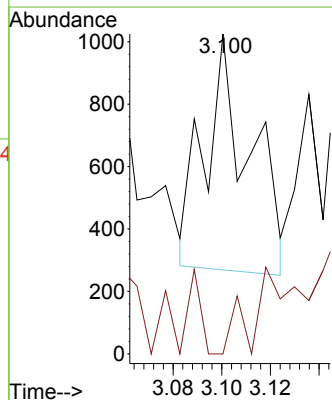
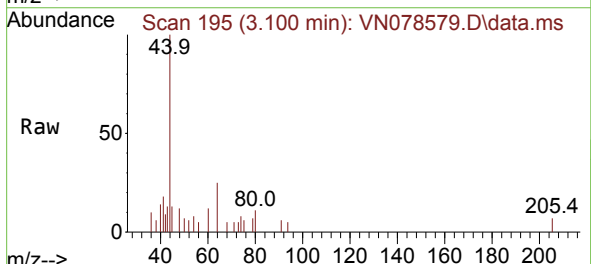
Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

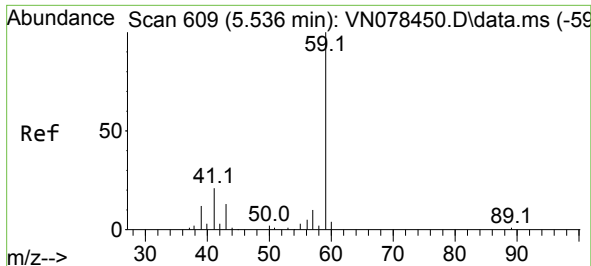
Tgt Ion: 94 Resp: 2428
Ion Ratio Lower Upper
94 100
96 48.0 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.100 min Scan# 195
Delta R.T. -0.018 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

Tgt Ion: 64 Resp: 968
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

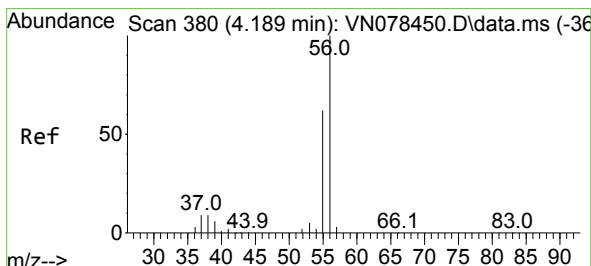
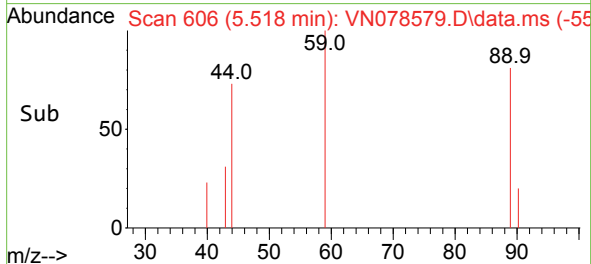
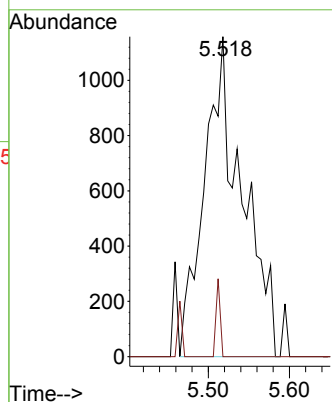
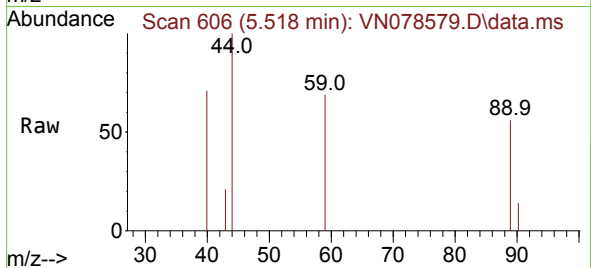




#11
Tert butyl alcohol
Concen: 4.434 ug/l
RT: 5.518 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

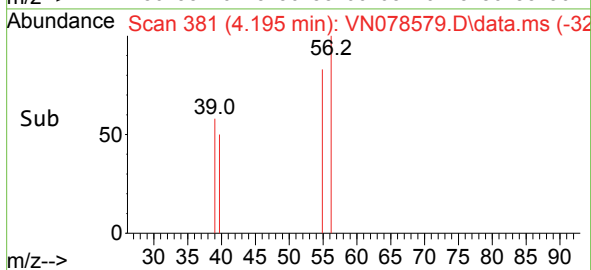
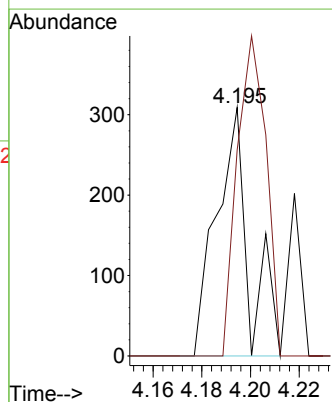
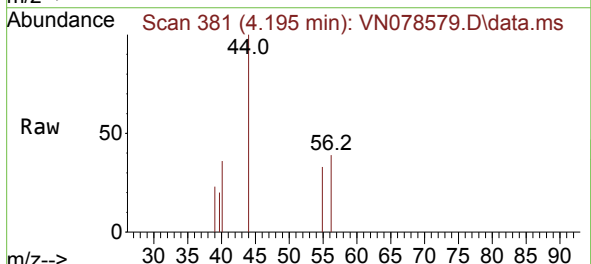
Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

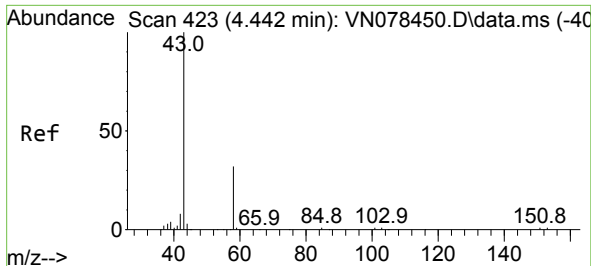
Tgt Ion: 59 Resp: 3728
Ion Ratio Lower Upper
59 100
57 2.7 8.2 12.4#



#13
Acrolein
Concen: 0.345 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.006 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

Tgt Ion: 56 Resp: 285
Ion Ratio Lower Upper
56 100
55 115.1 54.5 81.7#

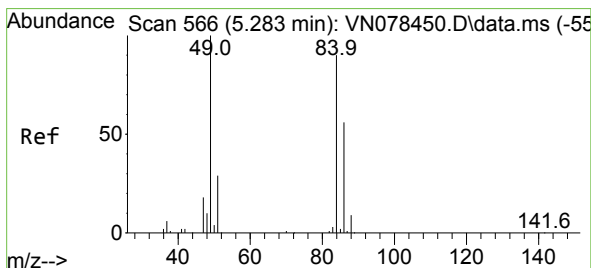
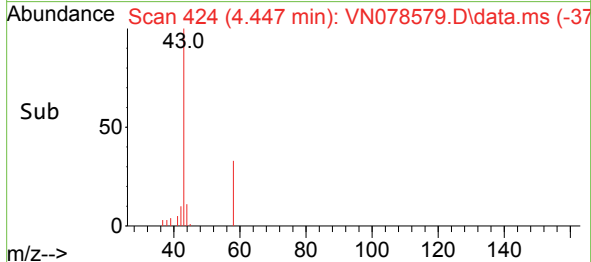
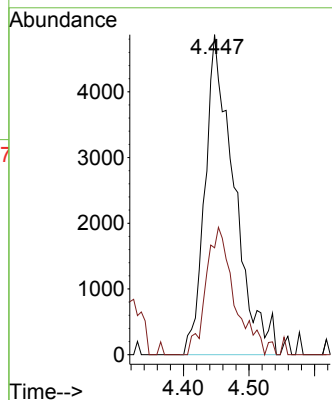
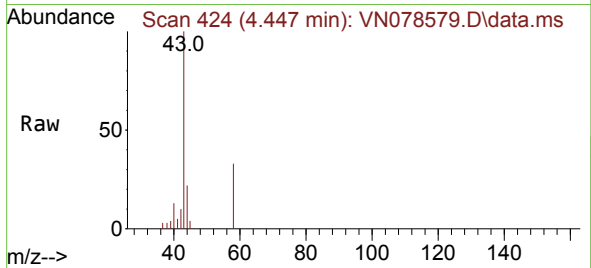




#16
Acetone
Concen: 8.871 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.005 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

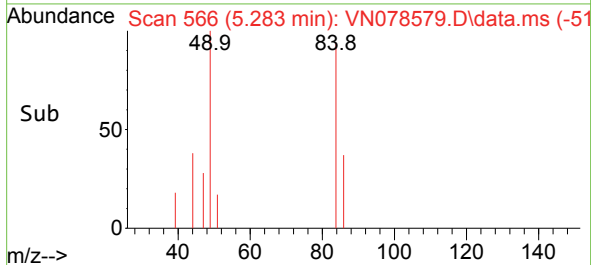
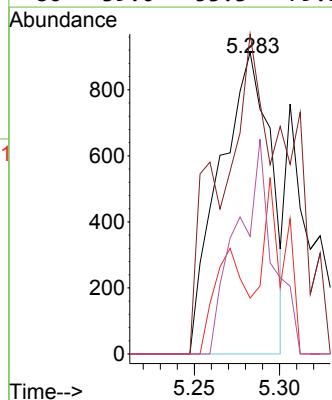
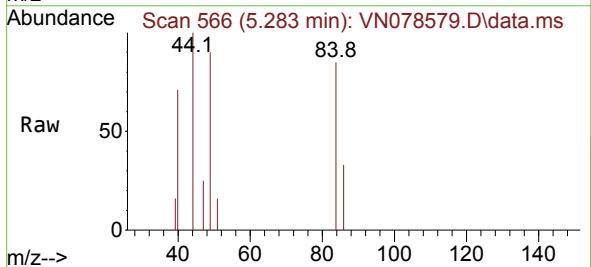
Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

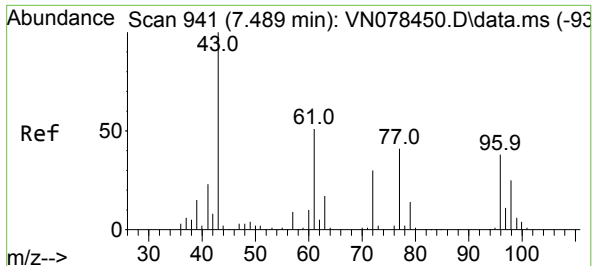
Tgt Ion: 43 Resp: 15066
Ion Ratio Lower Upper
43 100
58 33.4 28.0 42.0



#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

Tgt Ion: 84 Resp: 1898
Ion Ratio Lower Upper
84 100
49 106.1 79.7 119.5
51 18.5 25.2 37.8#
86 39.0 53.3 79.9#

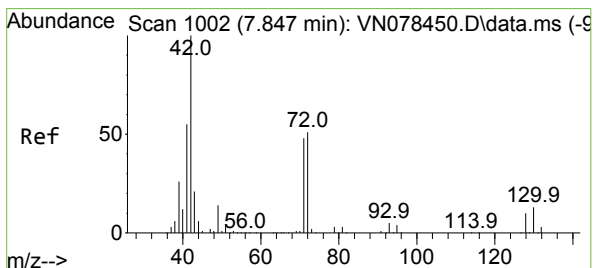
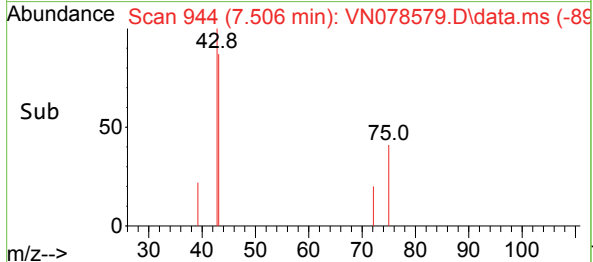
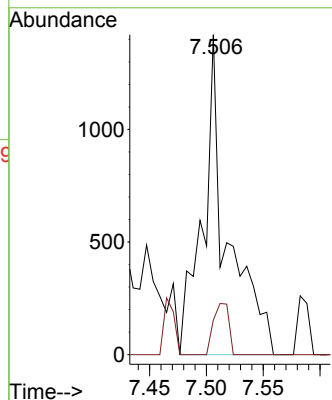
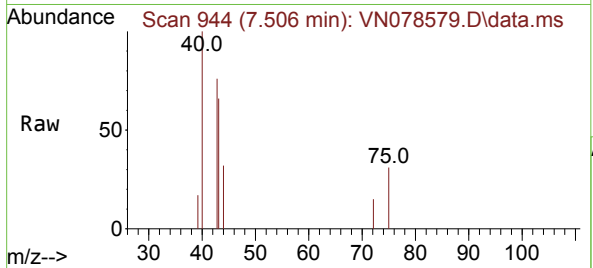




#25
2-Butanone
Concen: 0.791 ug/l
RT: 7.506 min Scan# 941
Delta R.T. 0.017 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

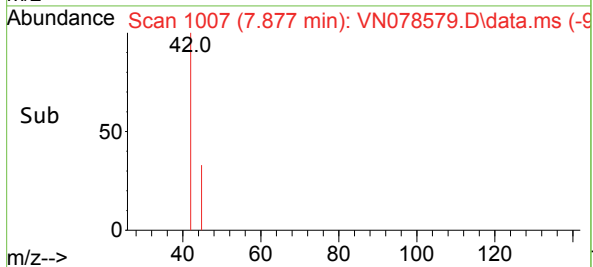
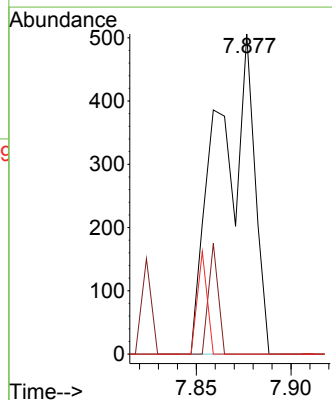
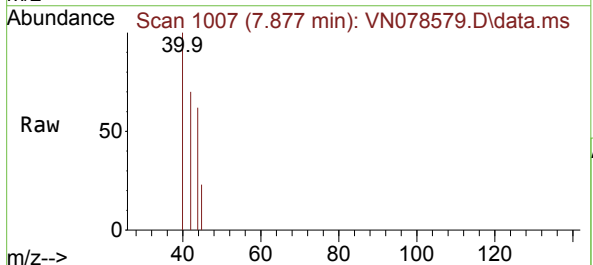
Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

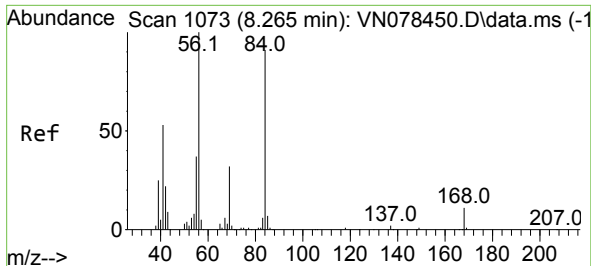
Tgt Ion: 43 Resp: 2115
Ion Ratio Lower Upper
43 100
72 10.8 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.379 ug/l
RT: 7.877 min Scan# 1007
Delta R.T. 0.030 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

Tgt Ion: 42 Resp: 664
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#

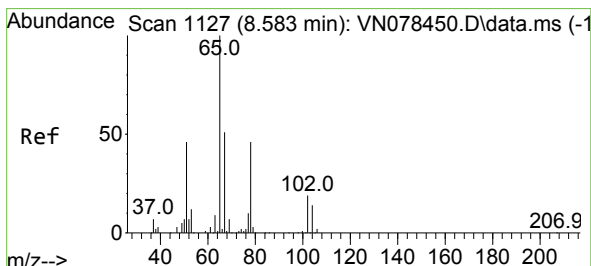
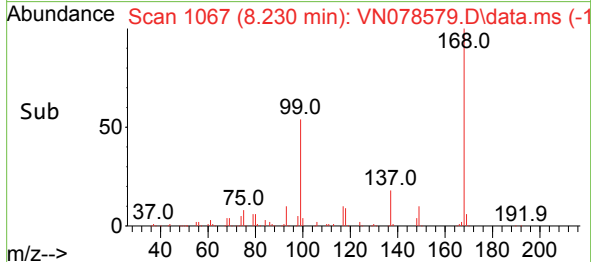
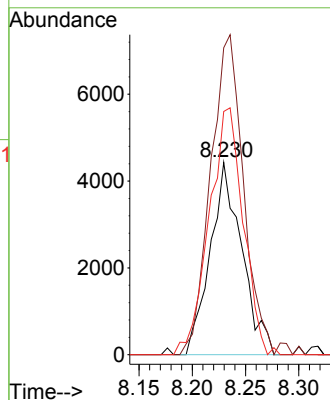
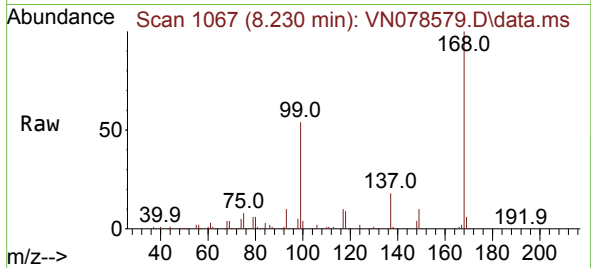




#31
Cyclohexane
Concen: 1.240 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

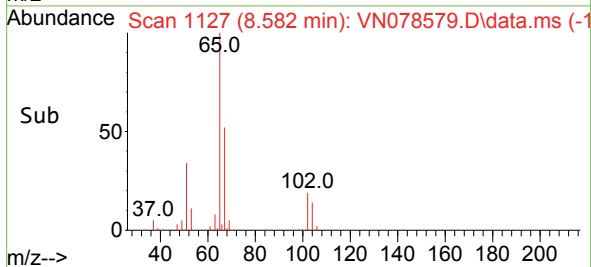
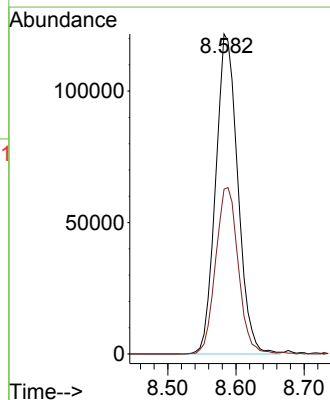
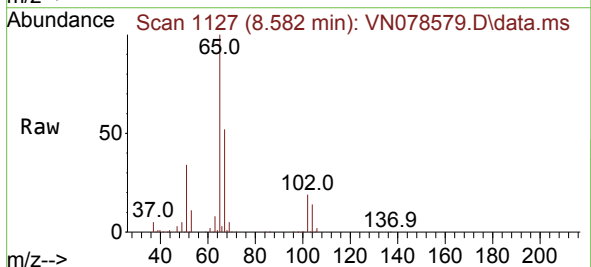
Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

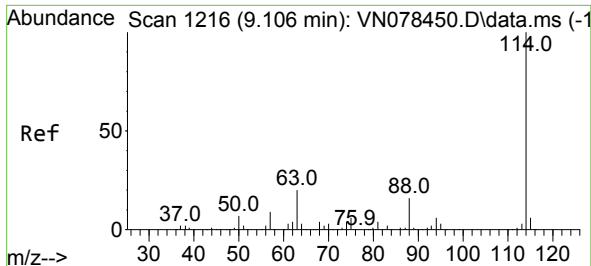
Tgt Ion: 56 Resp: 9136
Ion Ratio Lower Upper
56 100
69 159.5 26.8 40.2#
84 126.4 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 50.420 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

Tgt Ion: 65 Resp: 274903
Ion Ratio Lower Upper
65 100
67 53.1 0.0 106.6

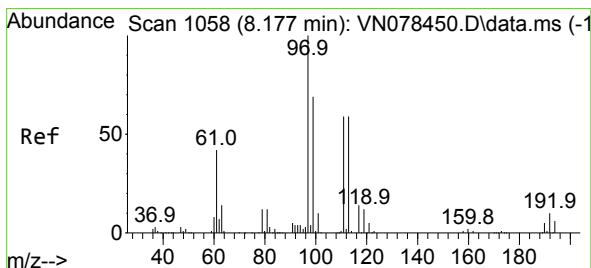
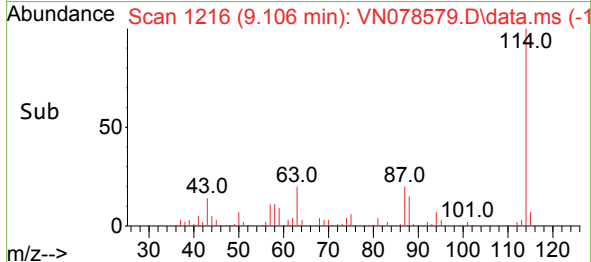
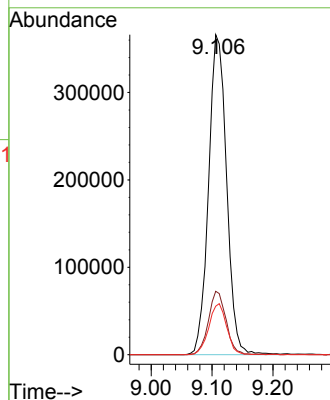
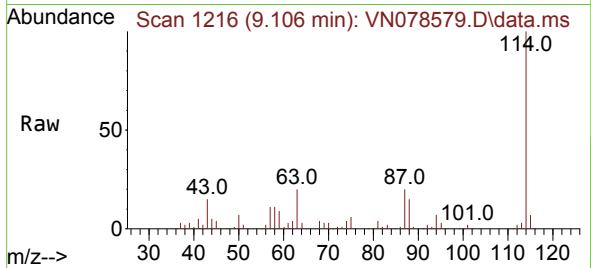




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

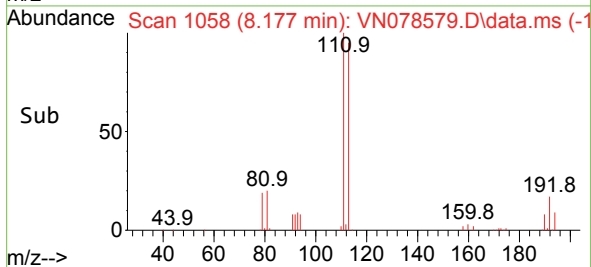
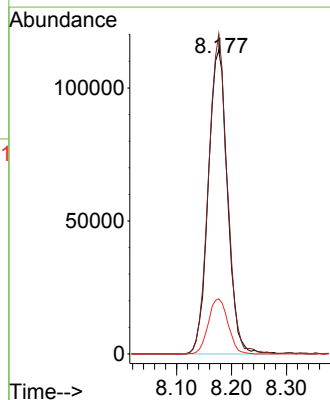
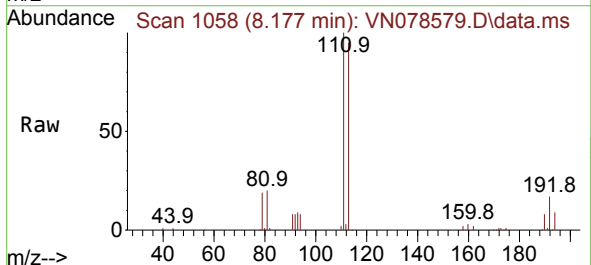
Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

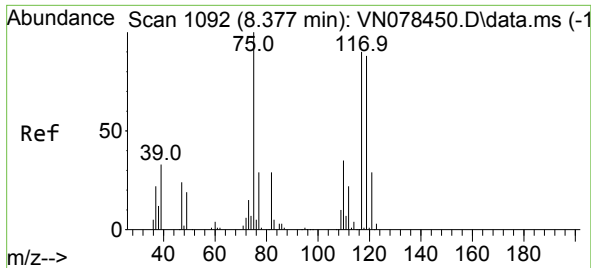
Tgt Ion:114 Resp: 753129
Ion Ratio Lower Upper
114 100
63 19.8 0.0 36.4
88 15.2 0.0 30.6



#35
Dibromofluoromethane
Concen: 54.417 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

Tgt Ion:113 Resp: 278208
Ion Ratio Lower Upper
113 100
111 102.2 82.6 123.8
192 18.5 12.7 19.1

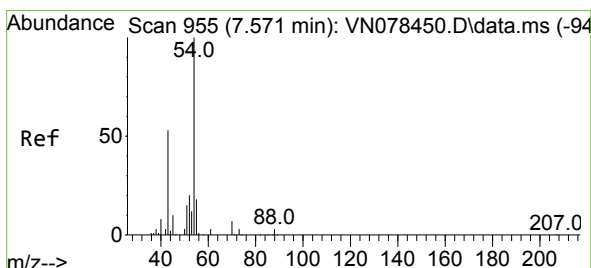
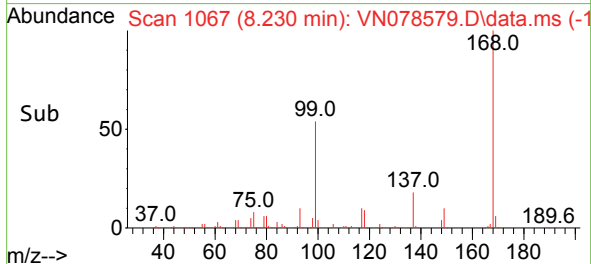
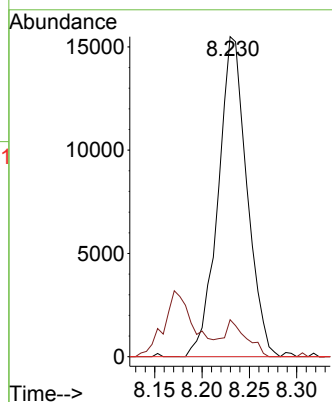
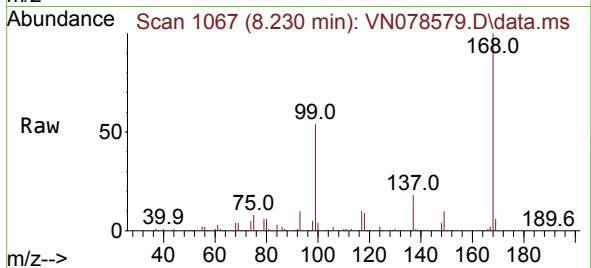




#36
1,1-Dichloropropene
Concen: 4.451 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

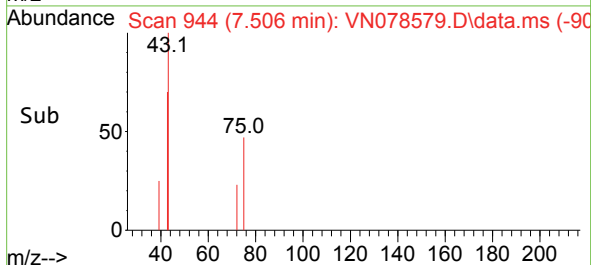
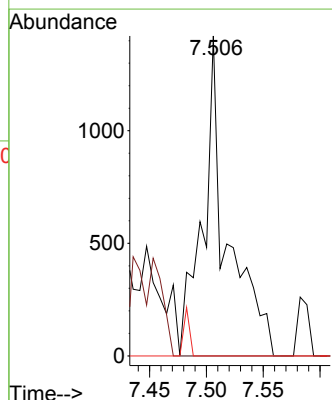
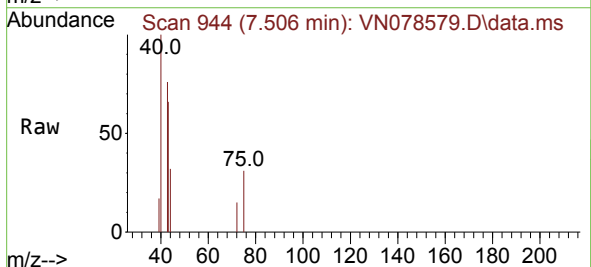
Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

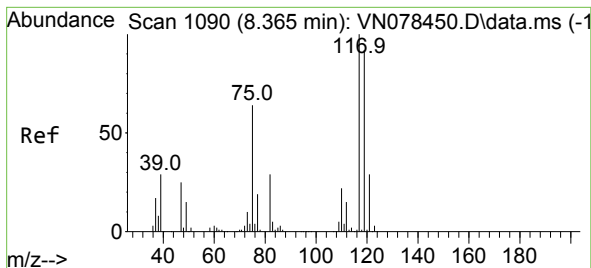
Tgt Ion: 75 Resp: 32855
Ion Ratio Lower Upper
75 100
110 9.3 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.344 ug/l
RT: 7.506 min Scan# 944
Delta R.T. -0.065 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

Tgt Ion: 43 Resp: 2115
Ion Ratio Lower Upper
43 100
61 0.0 13.2 19.8#
70 0.0 11.3 16.9#





#38

Carbon Tetrachloride

Concen: 5.446 ug/l

RT: 8.235 min Scan# 1105

Delta R.T. -0.130 min

Lab File: VN078579.D

Acq: 19 Jul 2023 14:36

Instrument :

MSVOA_N

ClientSampleId :

AUD-1022

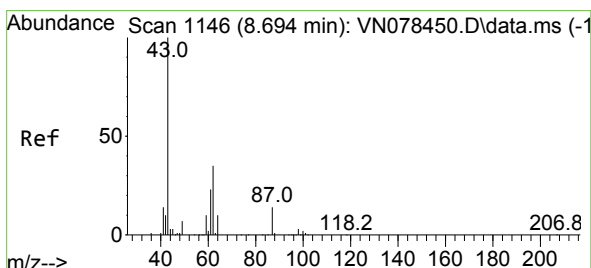
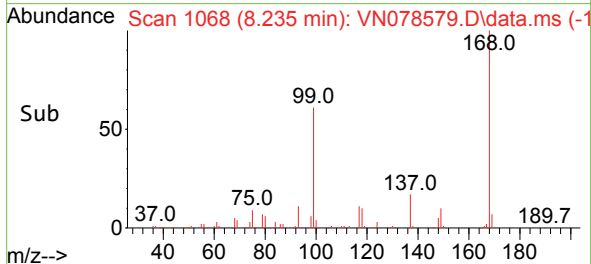
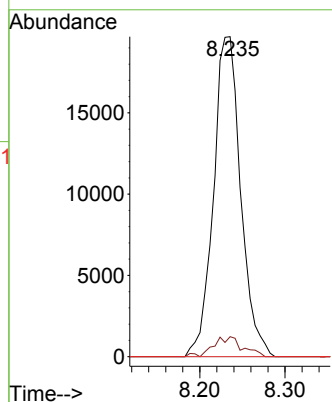
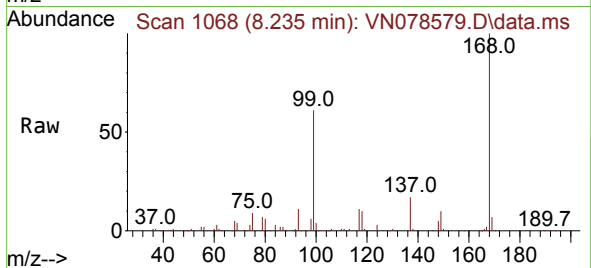
Tgt Ion:117 Resp: 43691

Ion Ratio Lower Upper

117 100

119 6.3 77.3 115.9#

121 0.0 23.3 34.9#



#43

Isopropyl Acetate

Concen: 0.932 ug/l

RT: 8.724 min Scan# 1151

Delta R.T. 0.030 min

Lab File: VN078579.D

Acq: 19 Jul 2023 14:36

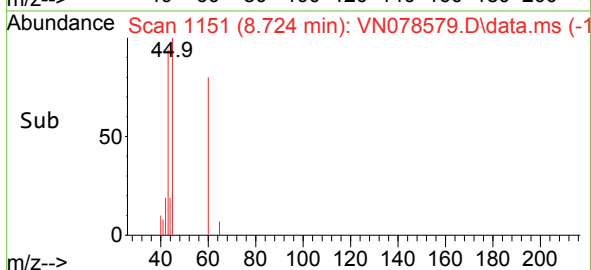
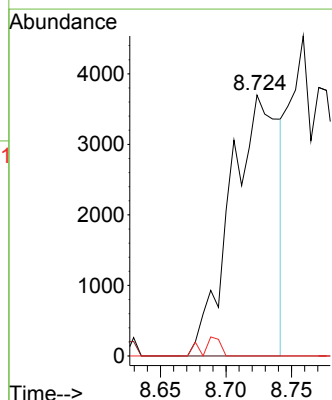
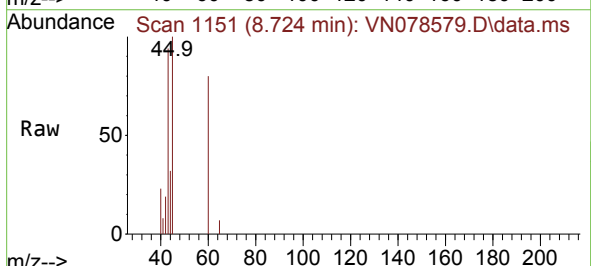
Tgt Ion: 43 Resp: 9445

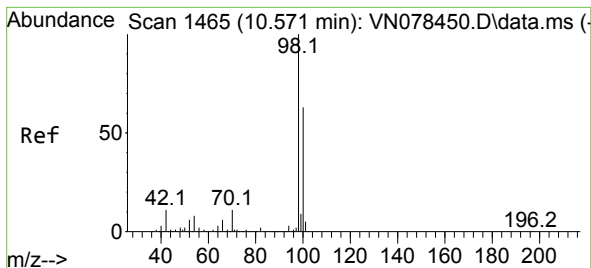
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#





#50

Toluene-d8

Concen: 45.135 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078579.D

Acq: 19 Jul 2023 14:36

Instrument :

MSVOA_N

ClientSampleId :

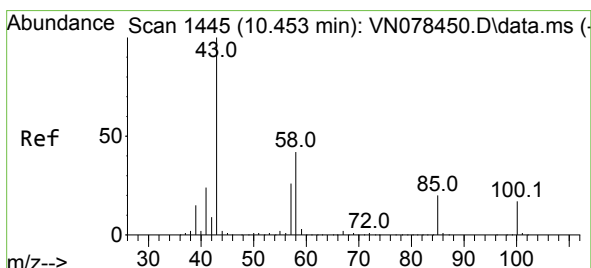
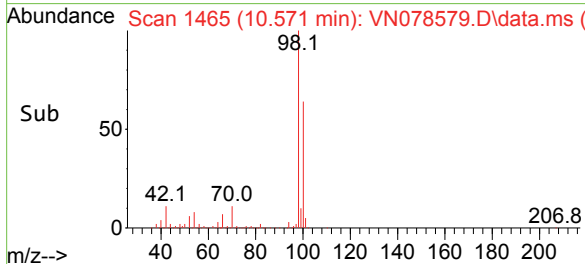
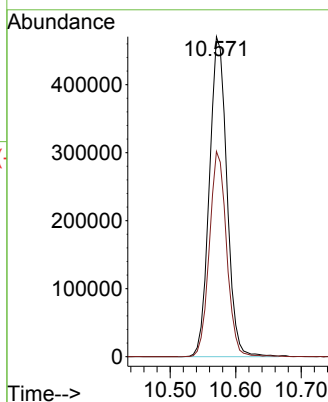
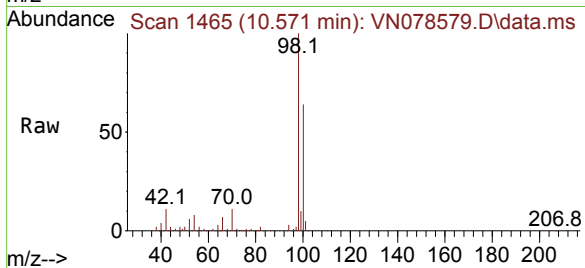
AUD-1022

Tgt Ion: 98 Resp: 871714

Ion Ratio Lower Upper

98 100

100 63.1 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 0.351 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. -0.000 min

Lab File: VN078579.D

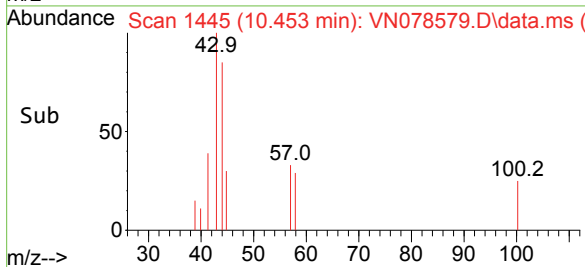
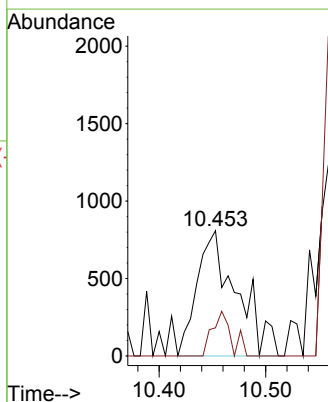
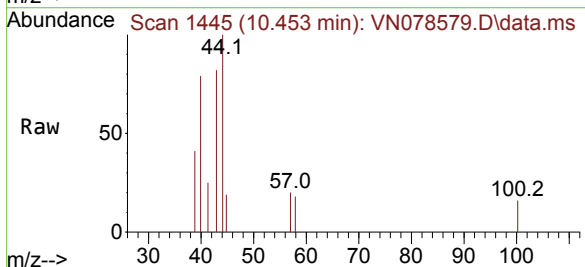
Acq: 19 Jul 2023 14:36

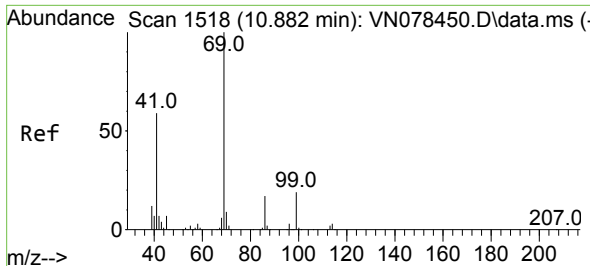
Tgt Ion: 43 Resp: 2114

Ion Ratio Lower Upper

43 100

58 16.7 36.6 54.8#

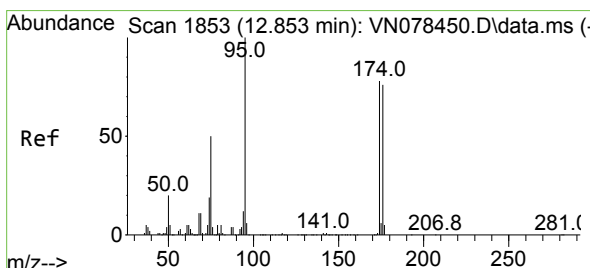
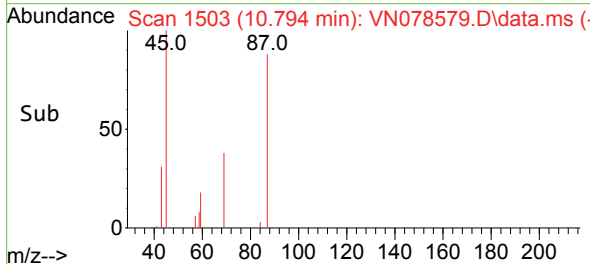
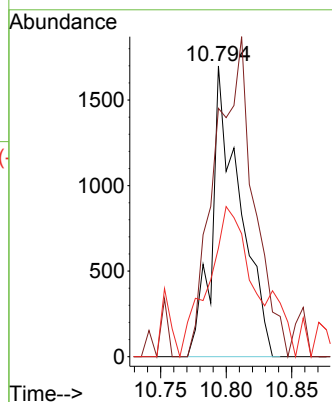
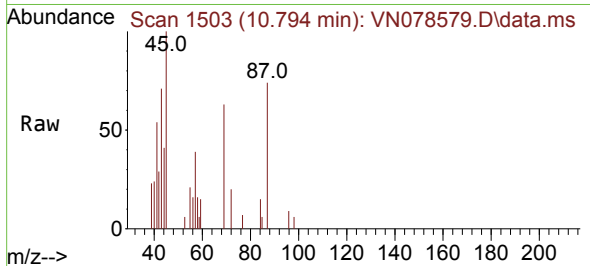




#56
Ethyl methacrylate
Concen: 0.339 ug/l
RT: 10.794 min Scan# 1503
Delta R.T. -0.088 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

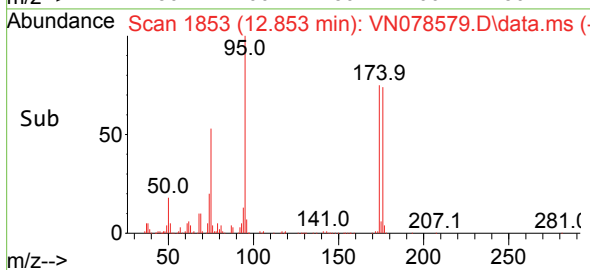
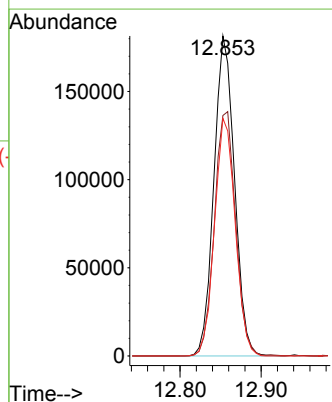
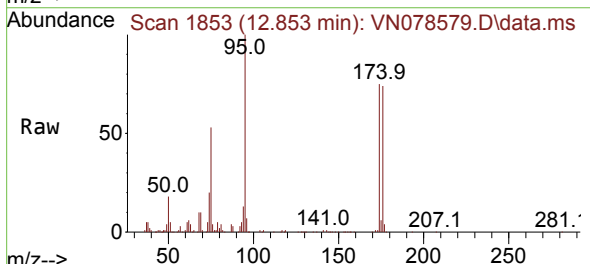
Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

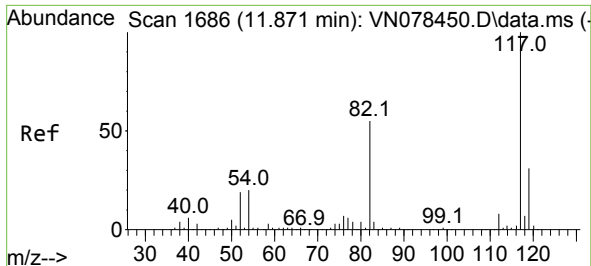
Tgt Ion: 69 Resp: 2527
Ion Ratio Lower Upper
69 100
41 151.9 39.6 59.4#
39 89.0 28.6 43.0#



#62
4-Bromofluorobenzene
Concen: 53.737 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

Tgt Ion: 95 Resp: 319680
Ion Ratio Lower Upper
95 100
174 78.9 0.0 143.8
176 74.9 0.0 135.8

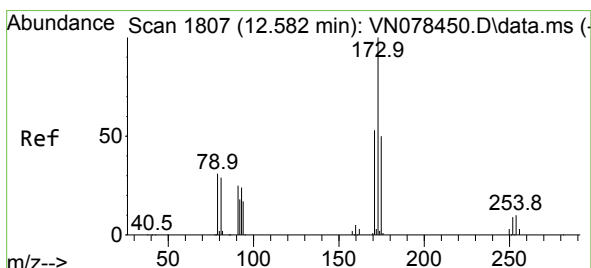
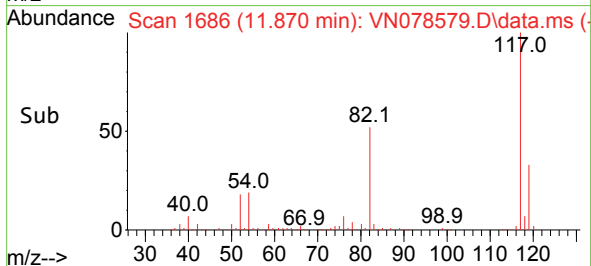
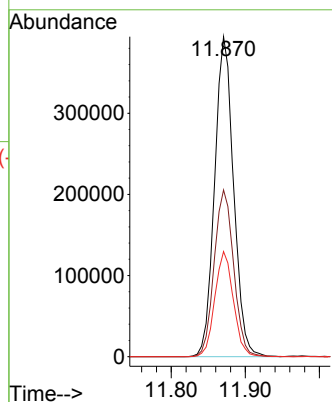
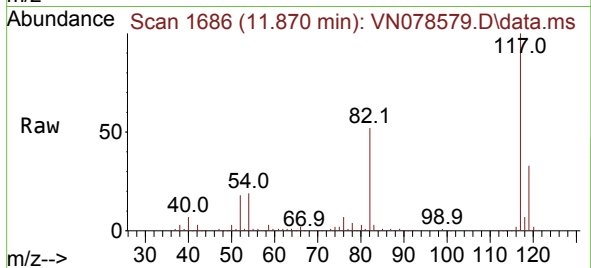




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.001 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

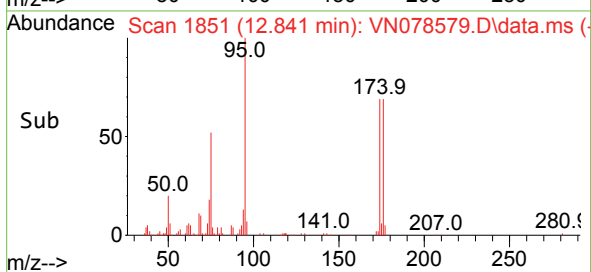
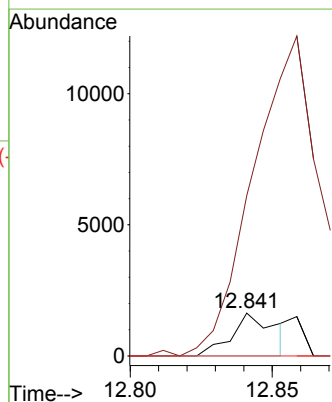
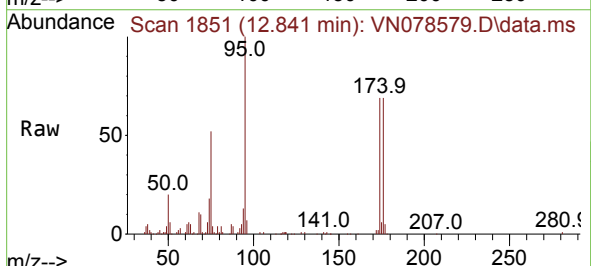
Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

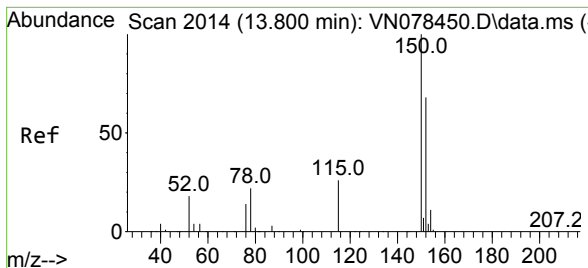
Tgt Ion:117 Resp: 701815
Ion Ratio Lower Upper
117 100
82 52.1 44.0 66.0
119 32.9 25.6 38.4



#71
Bromoform
Concen: 0.426 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.259 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

Tgt Ion:173 Resp: 1741
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2014

Delta R.T. -0.006 min

Lab File: VN078579.D

Acq: 19 Jul 2023 14:36

Instrument :

MSVOA_N

ClientSampleId :

AUD-1022

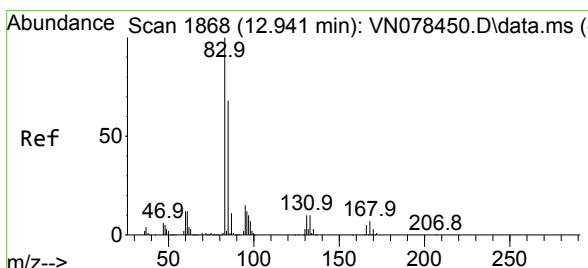
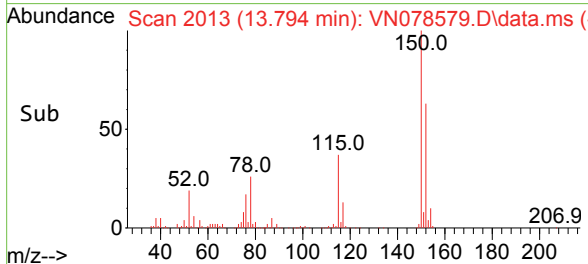
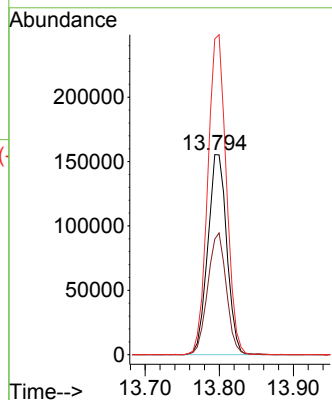
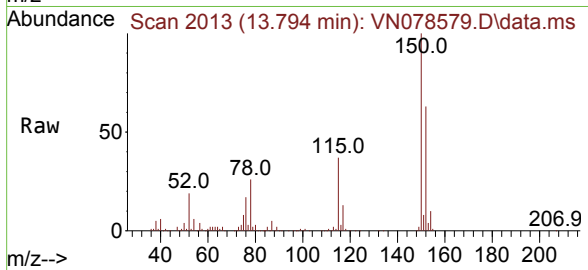
Tgt Ion:152 Resp: 276687

Ion Ratio Lower Upper

152 100

115 59.9 32.3 96.8

150 156.2 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: VN078579.D

Acq: 19 Jul 2023 14:36

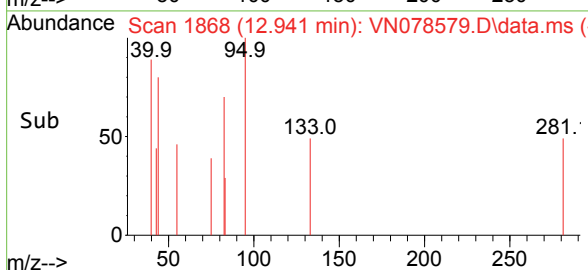
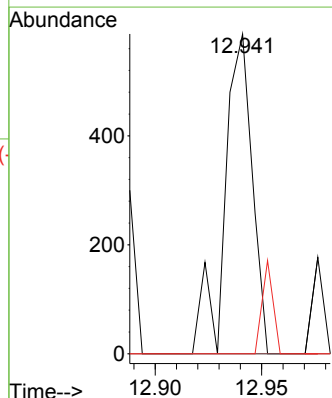
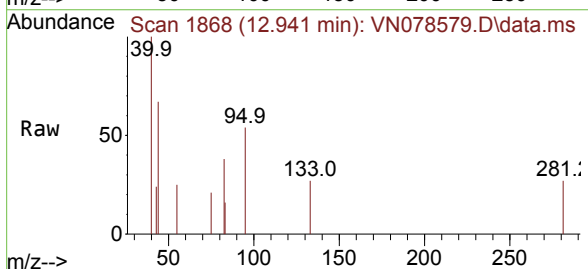
Tgt Ion: 83 Resp: 527

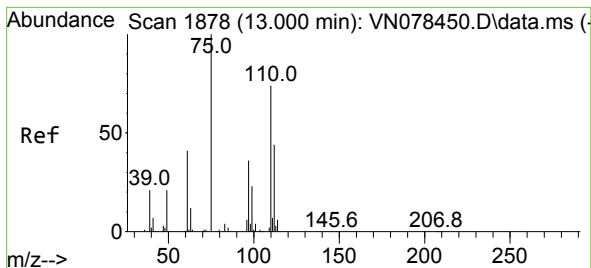
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 11.4 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 25.732 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078579.D

Acq: 19 Jul 2023 14:36

Instrument :

MSVOA_N

ClientSampleId :

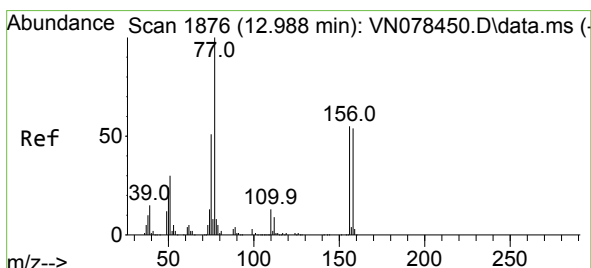
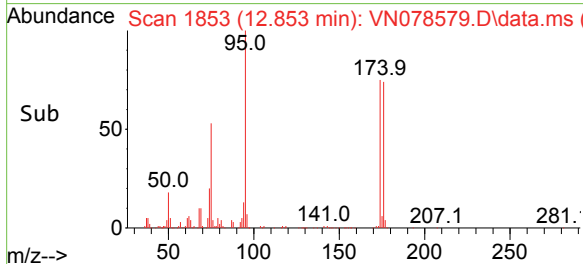
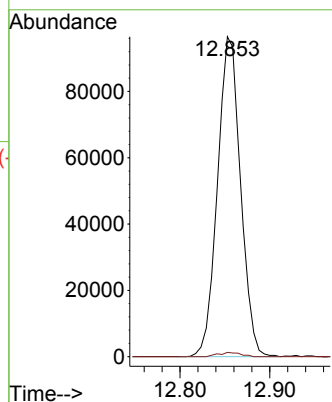
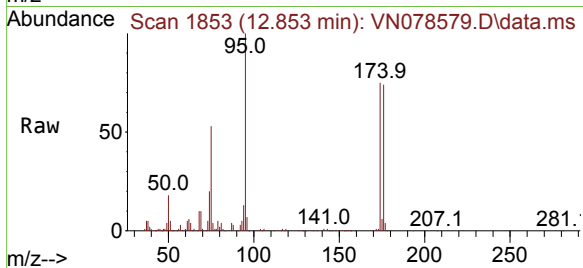
AUD-1022

Tgt Ion: 75 Resp: 172092

Ion Ratio Lower Upper

75 100

77 1.3 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.994 min Scan# 1877

Delta R.T. 0.006 min

Lab File: VN078579.D

Acq: 19 Jul 2023 14:36

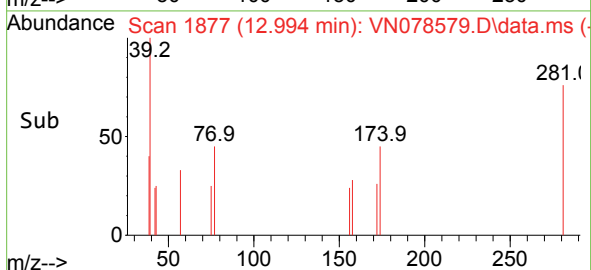
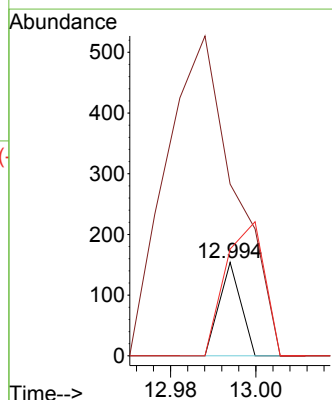
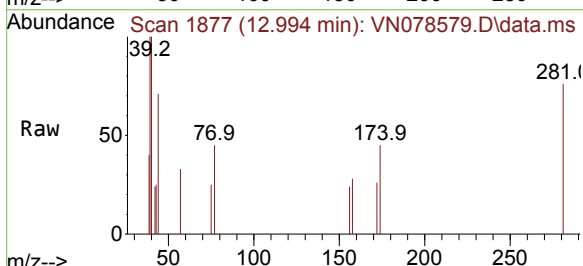
Tgt Ion:156 Resp: 54

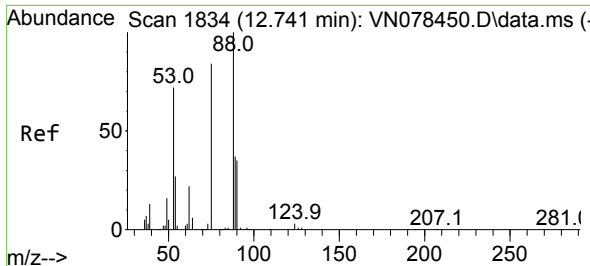
Ion Ratio Lower Upper

156 100

77 1096.3 107.7 323.3#

158 259.3 48.4 145.3#

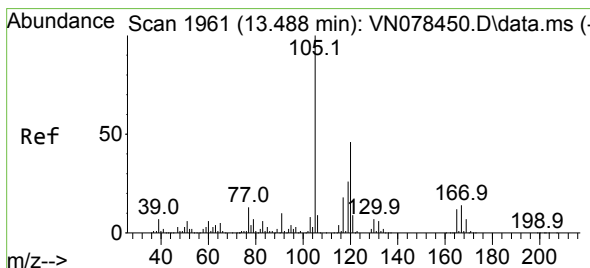
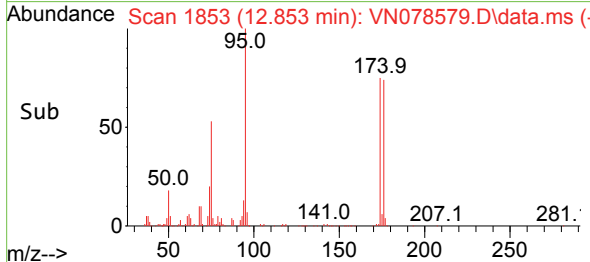
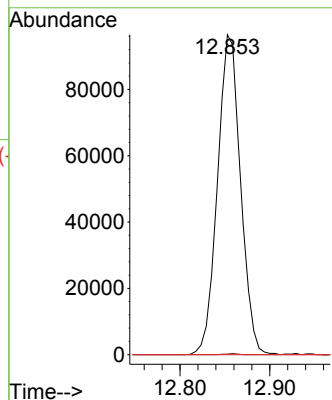
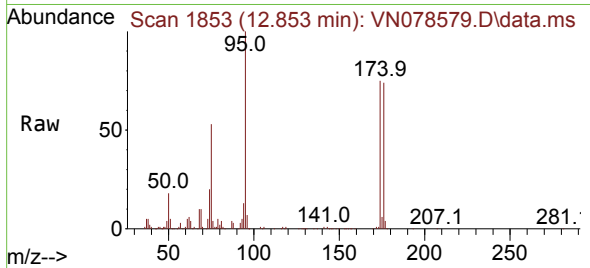




#81
trans-1,4-Dichloro-2-butene
Concen: 67.619 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

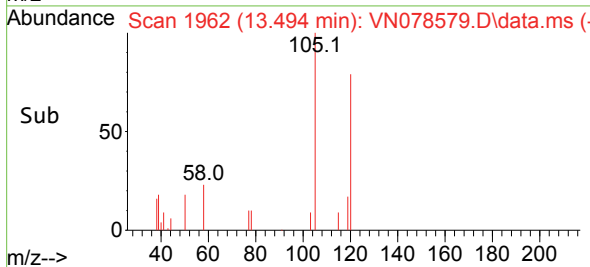
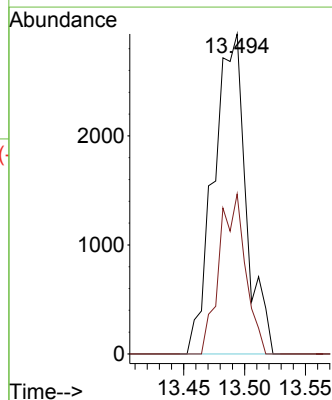
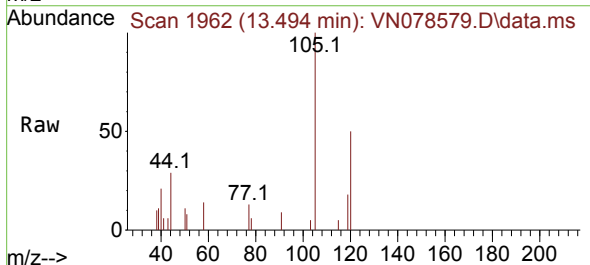
Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

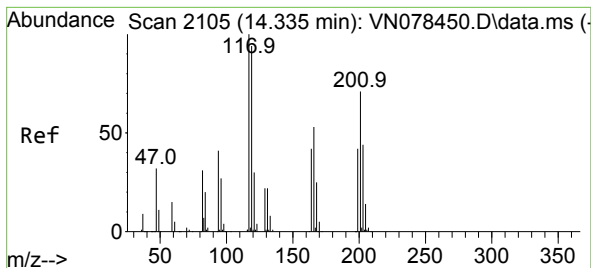
Tgt Ion: 75 Resp: 172092
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.0 38.8 58.2#



#84
1,2,4-Trimethylbenzene
Concen: 0.273 ug/l
RT: 13.494 min Scan# 1962
Delta R.T. 0.006 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

Tgt Ion:105 Resp: 5441
Ion Ratio Lower Upper
105 100
120 40.4 22.0 66.0





#90

Hexachloroethane

Concen: Below Cal

RT: 14.323 min Scan# 2103

Delta R.T. -0.012 min

Lab File: VN078579.D

Acq: 19 Jul 2023 14:36

Instrument :

MSVOA_N

ClientSampleId :

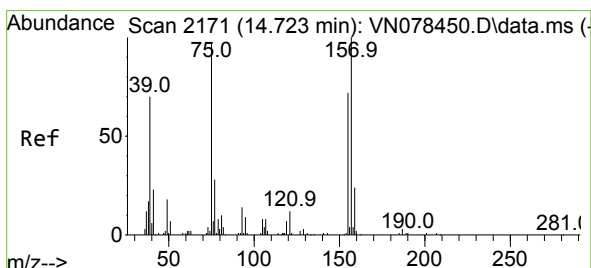
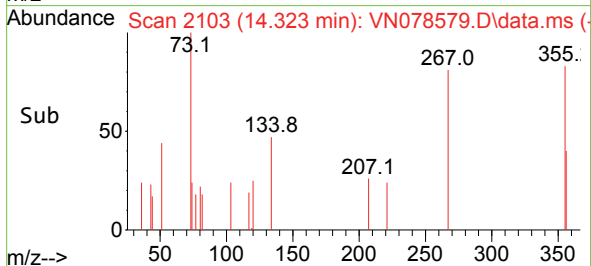
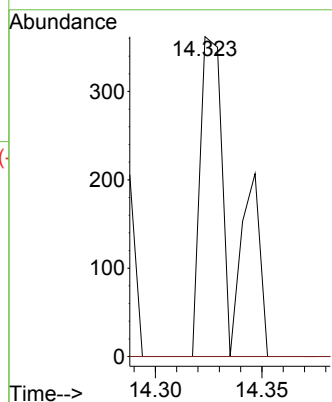
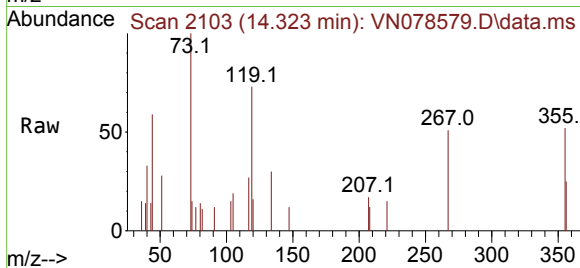
AUD-1022

Tgt Ion:117 Resp: 378

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.735 min Scan# 2173

Delta R.T. 0.012 min

Lab File: VN078579.D

Acq: 19 Jul 2023 14:36

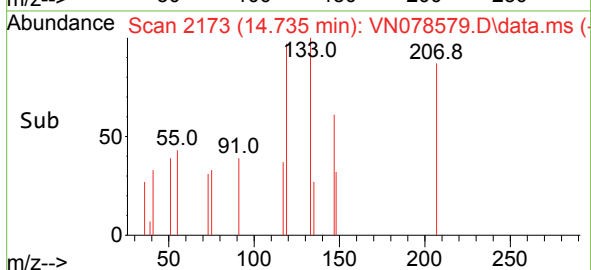
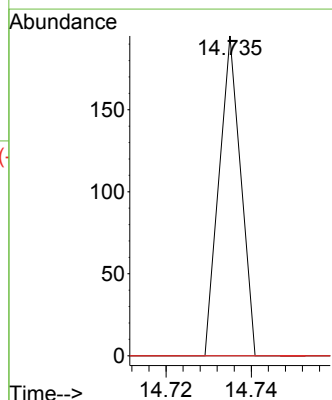
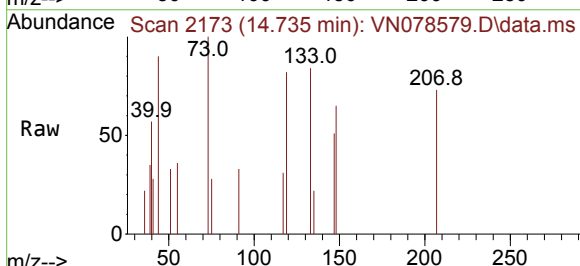
Tgt Ion: 75 Resp: 69

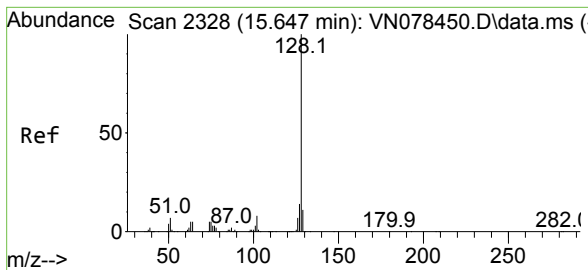
Ion Ratio Lower Upper

75 100

155 0.0 39.1 117.2#

157 0.0 50.3 150.9#





#95
Naphthalene
Concen: 1.322 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN078579.D
Acq: 19 Jul 2023 14:36

Instrument :
MSVOA_N
ClientSampleId :
AUD-1022

Tgt Ion:128 Resp: 14332
Ion Ratio Lower Upper
128 100
127 14.4 10.0 15.0
129 9.7 8.7 13.1

