

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081823\
 Data File : VN078944.D
 Acq On : 18 Aug 2023 15:58
 Operator : JC\MD
 Sample : PB154902ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 18 23:43:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

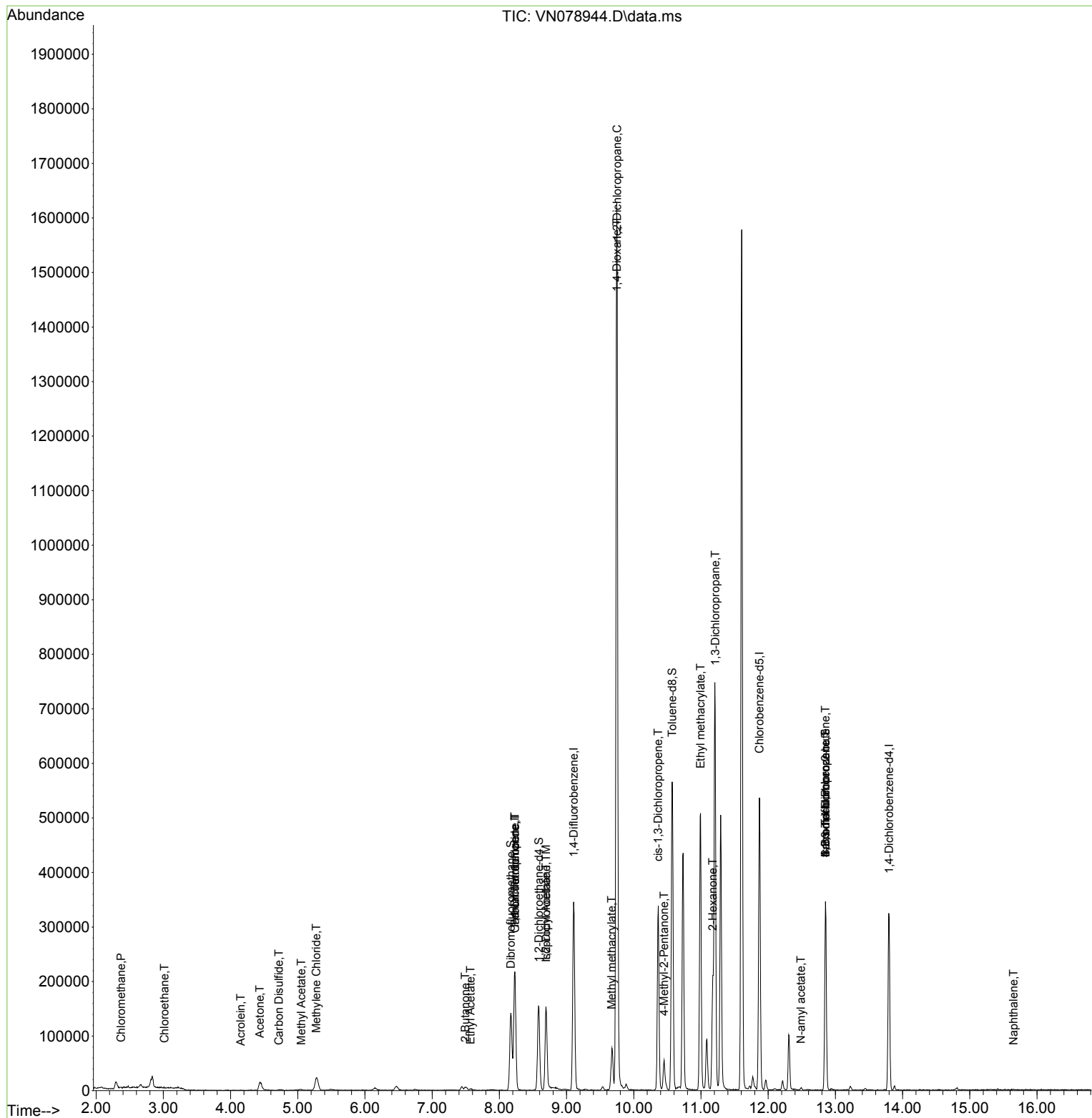
Internal Standards						
1) Pentafluorobenzene	8.230	168	158227	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	293297	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	295249	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	84128	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	124932	50.741	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.480%			
35) Dibromofluoromethane	8.171	113	102902	52.120	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.240%			
50) Toluene-d8	10.571	98	392465	53.536	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.080%			
62) 4-Bromofluorobenzene	12.853	95	111232	46.421	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 92.840%			
Target Compounds						Qvalue
3) Chloromethane	2.371	50	959	0.313	ug/l #	42
6) Chloroethane	3.018	64	714	0.380	ug/l #	43
13) Acrolein	4.153	56	58	7.060	ug/l #	16
16) Acetone	4.436	43	29683	29.218	ug/l	91
17) Carbon Disulfide	4.718	76	1205	0.253	ug/l #	75
18) Methyl Acetate	5.053	43	2085	0.486	ug/l #	63
20) Methylene Chloride	5.277	84	18665	8.621	ug/l #	75
25) 2-Butanone	7.494	43	10965	6.732	ug/l #	65
31) Cyclohexane	8.230	56	4107	Below Cal	#	54
36) 1,1-Dichloropropene	8.230	75	14743	4.964	ug/l #	45
37) Ethyl Acetate	7.571	43	5187	1.561	ug/l #	67
38) Carbon Tetrachloride	8.235	117	16194	5.442	ug/l #	16
42) 1,2-Dichloroethane	8.694	62	728	0.222	ug/l #	73
43) Isopropyl Acetate	8.694	43	173827	29.597	ug/l #	79
45) 1,2-Dichloropropane	9.753	63	2065	0.884	ug/l #	45
48) Methyl methacrylate	9.671	41	5341	2.007	ug/l #	33
49) 1,4-Dioxane	9.747	88	220	4.853	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	42858	12.304	ug/l #	79
54) cis-1,3-Dichloropropene	10.365	75	55916	15.124	ug/l #	73
56) Ethyl methacrylate	10.994	69	2378	0.710	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	8143	2.107	ug/l #	42
59) 2-Hexanone	11.176	43	164009	65.005	ug/l #	19
71) Bromoform	12.853	173	1158	0.671	ug/l #	1
74) N-amyl acetate	12.488	43	2095	0.592	ug/l #	43
76) 1,2,3-Trichloropropane	12.853	75	61923	30.548	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	61923	78.037	ug/l #	15
94) Hexachlorobutadiene	15.517	225	53	Below Cal	#	47
95) Naphthalene	15.653	128	1238	2.877	ug/l #	70

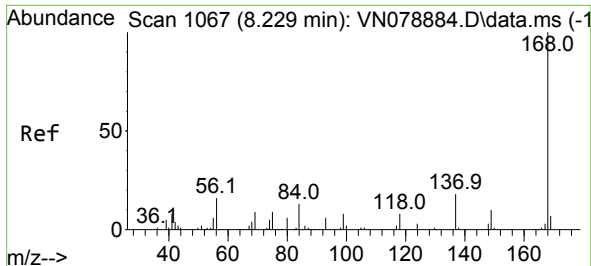
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 16 02:42:02 2023
Response via : Initial Calibration

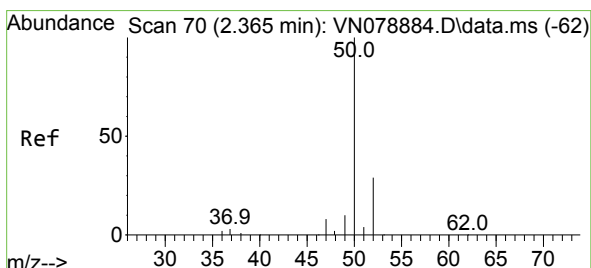
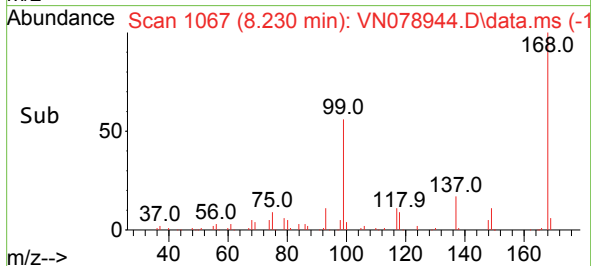
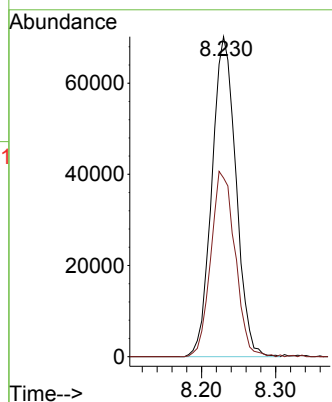
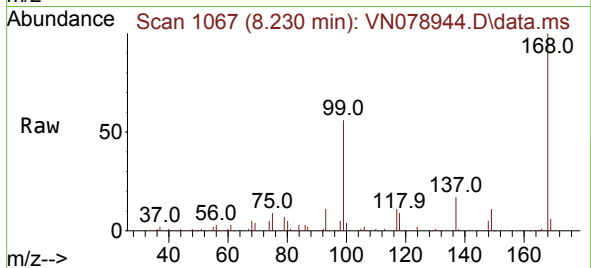




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

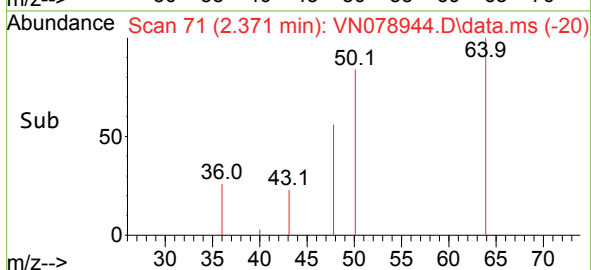
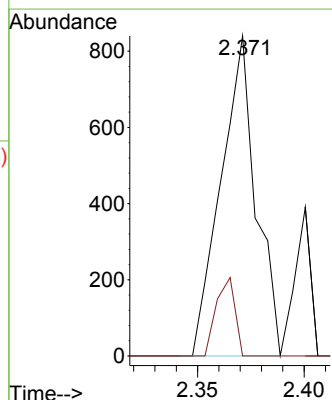
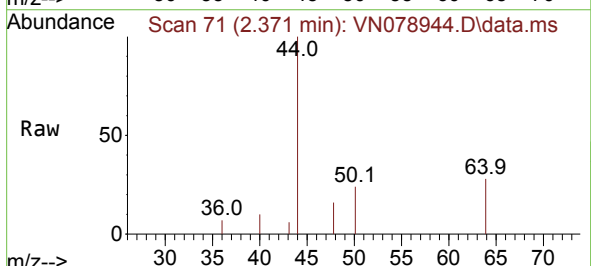
Instrument :
MSVOA_N
ClientSampleId :

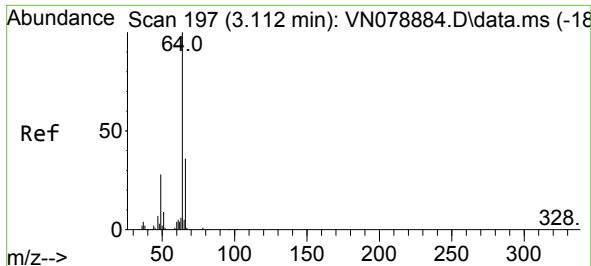
Tgt Ion:168 Resp: 158227
Ion Ratio Lower Upper
168 100
99 55.9 53.0 79.6



#3
Chloromethane
Concen: 0.313 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

Tgt Ion: 50 Resp: 959
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

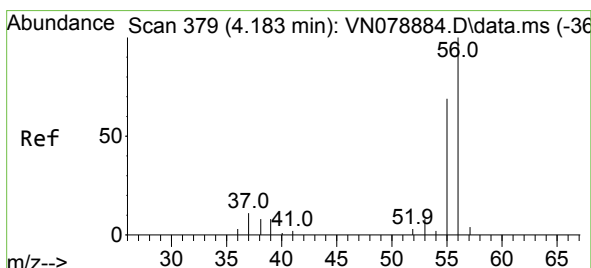
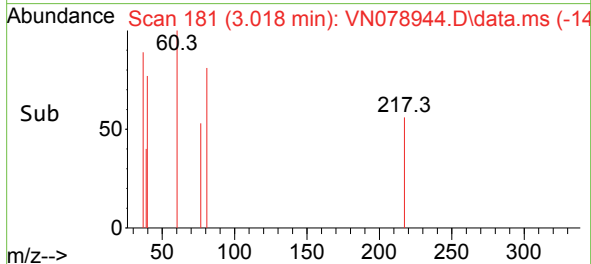
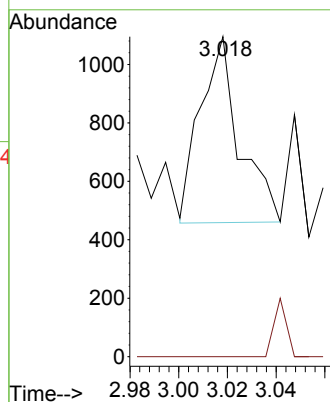
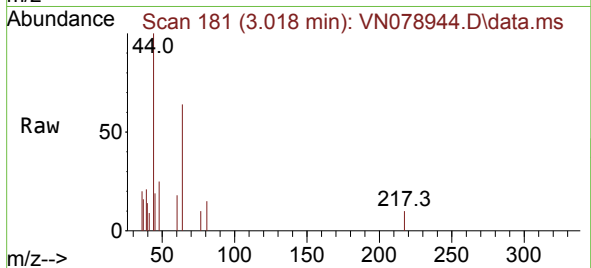




#6
Chloroethane
Concen: 0.380 ug/l
RT: 3.018 min Scan# 11
Delta R.T. -0.100 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

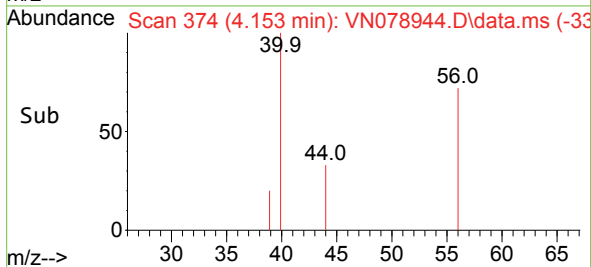
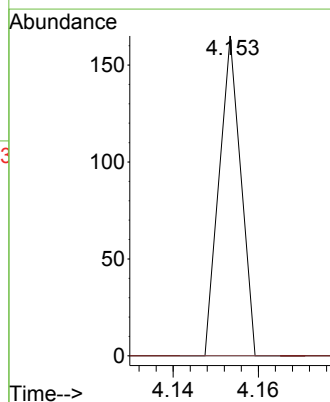
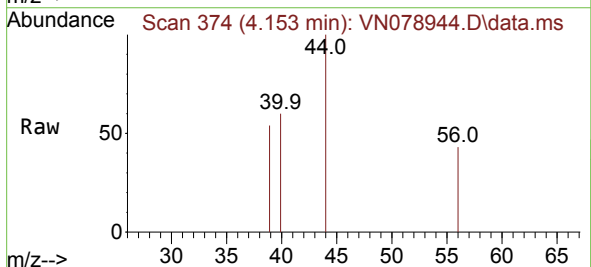
Instrument :
MSVOA_N
ClientSampleId :

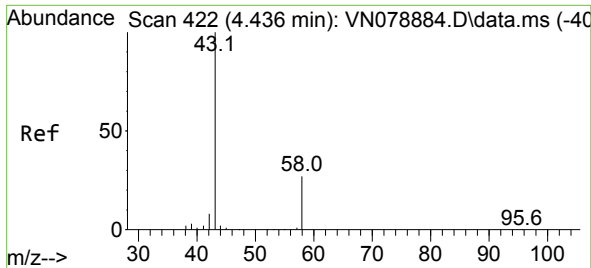
Tgt Ion: 64 Resp: 714
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#13
Acrolein
Concen: 7.060 ug/l
RT: 4.153 min Scan# 374
Delta R.T. -0.042 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

Tgt Ion: 56 Resp: 58
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#





#16

Acetone

Concen: 29.218 ug/l

RT: 4.436 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN078944.D

Acq: 18 Aug 2023 15:58

Instrument :

MSVOA_N

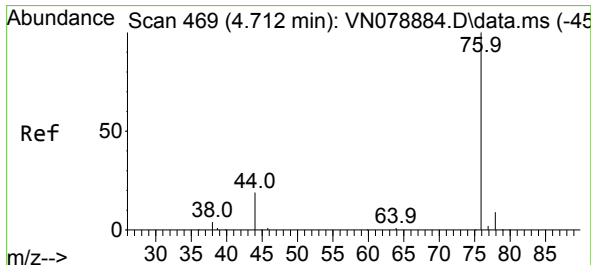
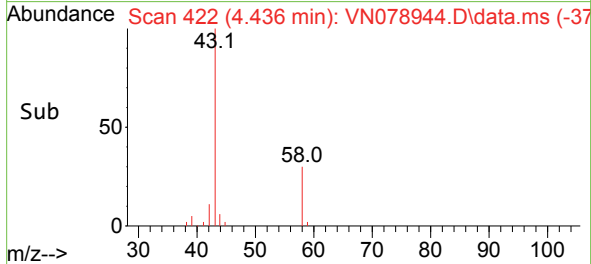
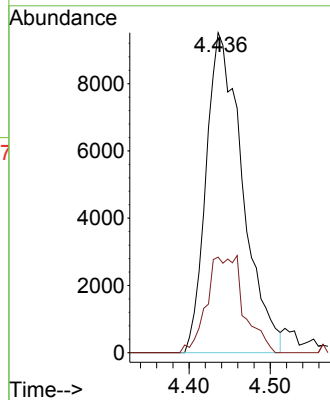
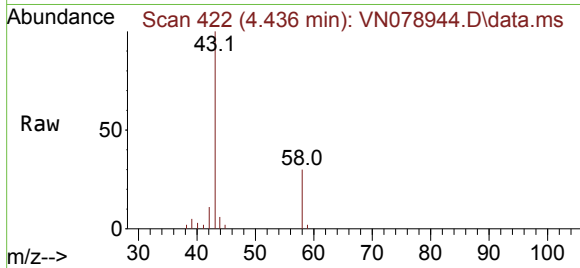
ClientSampleId :

Tgt Ion: 43 Resp: 29683

Ion Ratio Lower Upper

43 100

58 29.9 28.0 42.0



#17

Carbon Disulfide

Concen: 0.253 ug/l

RT: 4.718 min Scan# 470

Delta R.T. -0.006 min

Lab File: VN078944.D

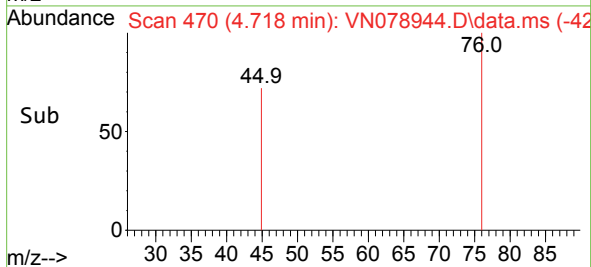
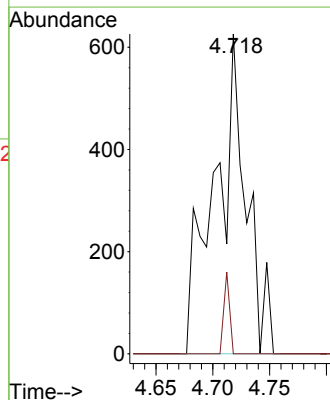
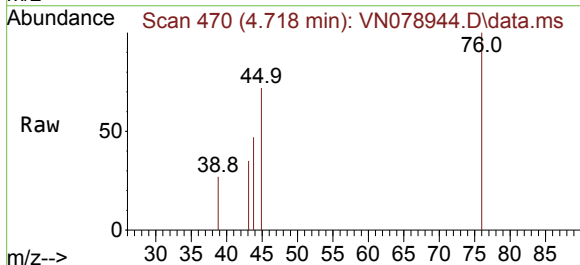
Acq: 18 Aug 2023 15:58

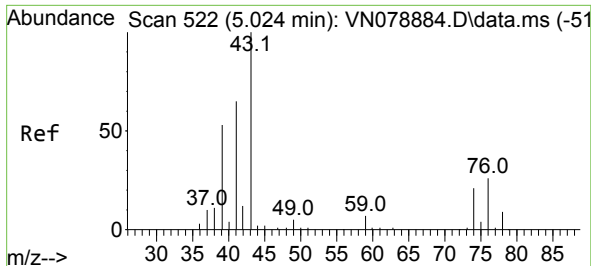
Tgt Ion: 76 Resp: 1205

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#

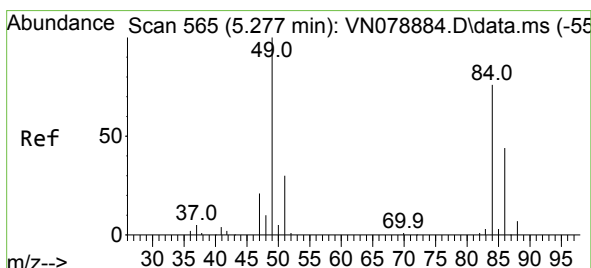
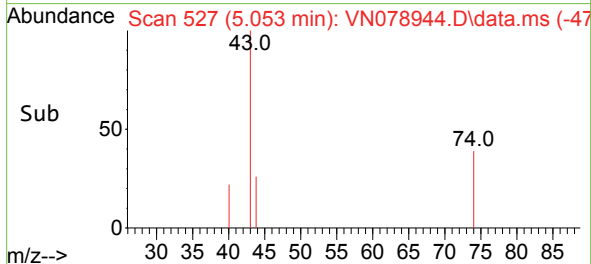
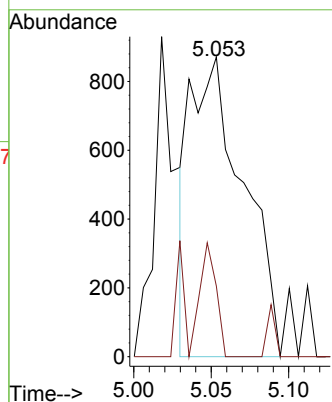
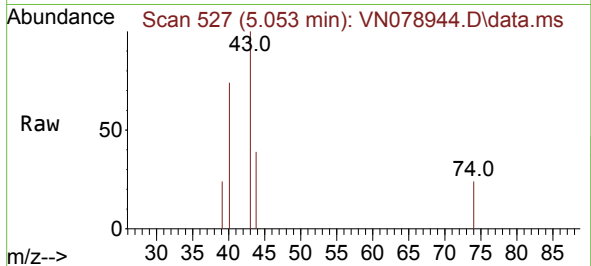




#18
Methyl Acetate
Concen: 0.486 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

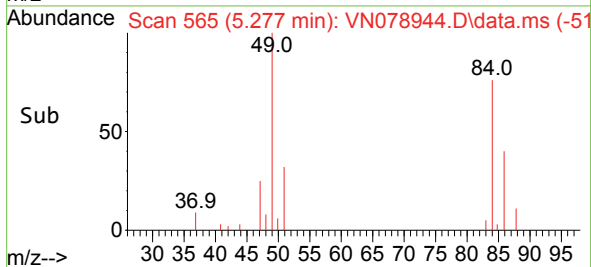
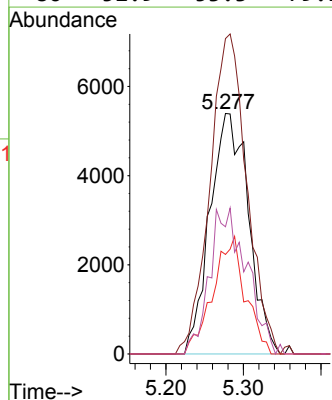
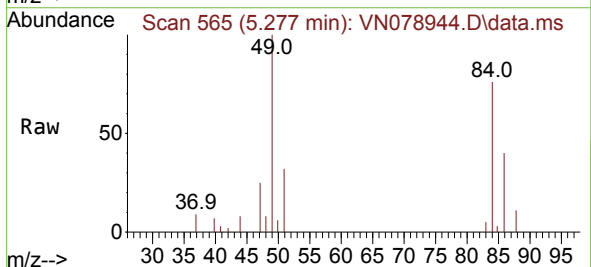
Instrument :
MSVOA_N
ClientSampleId :

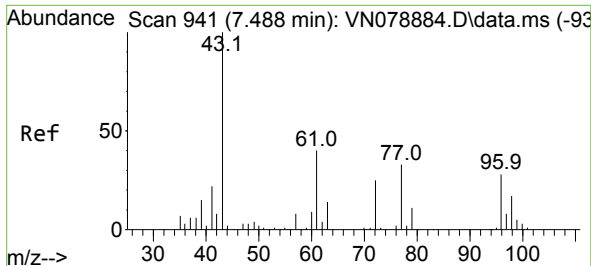
Tgt Ion: 43 Resp: 2085
Ion Ratio Lower Upper
43 100
74 11.8 26.2 39.4#



#20
Methylene Chloride
Concen: 8.621 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

Tgt Ion: 84 Resp: 18665
Ion Ratio Lower Upper
84 100
49 131.1 79.7 119.5#
51 41.4 25.2 37.8#
86 52.9 53.3 79.9#

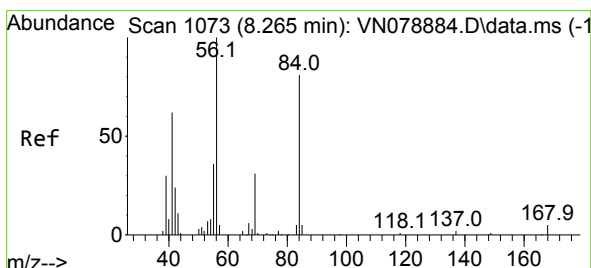
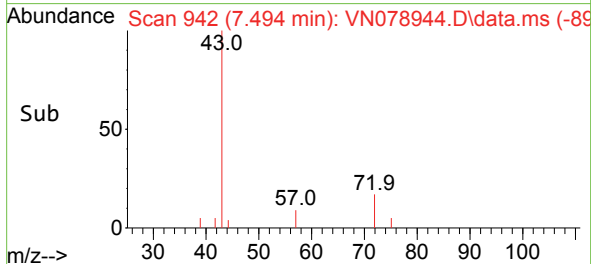
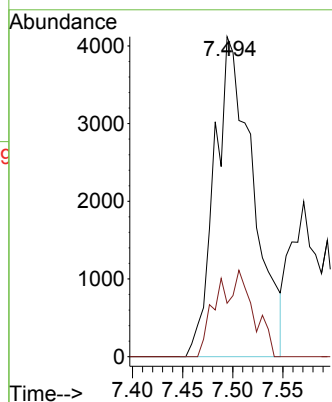
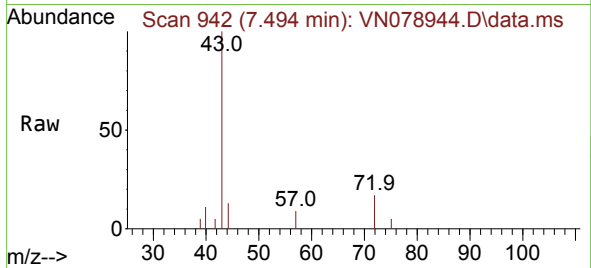




#25
2-Butanone
Concen: 6.732 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

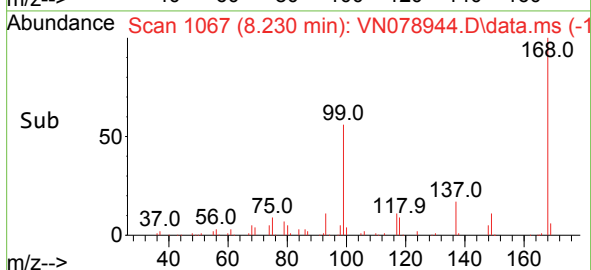
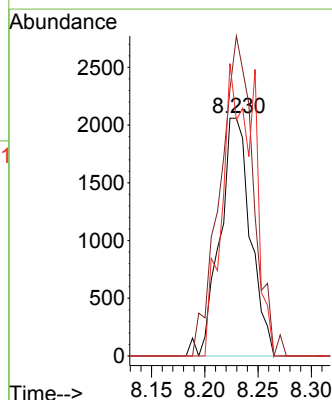
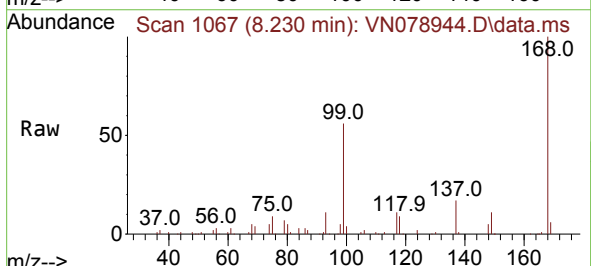
Instrument :
MSVOA_N
ClientSampleId :

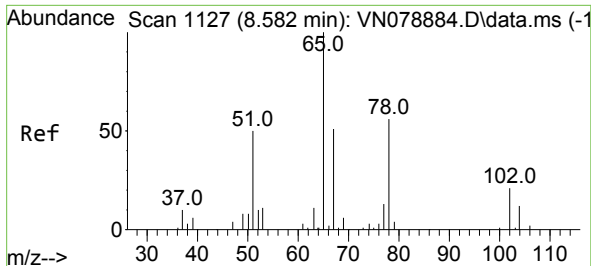
Tgt Ion: 43 Resp: 10965
Ion Ratio Lower Upper
43 100
72 16.7 30.2 45.2#



#31
Cyclohexane
Concen: Below Cal
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

Tgt Ion: 56 Resp: 4107
Ion Ratio Lower Upper
56 100
69 134.6 26.8 40.2#
84 99.3 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 50.741 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078944.D

Acq: 18 Aug 2023 15:58

Instrument :

MSVOA_N

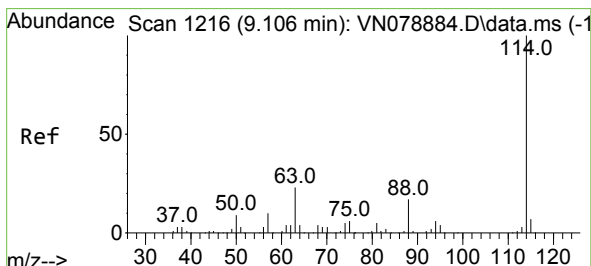
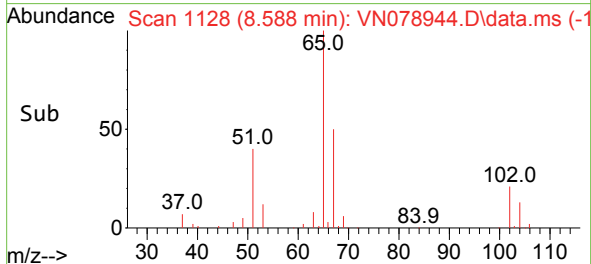
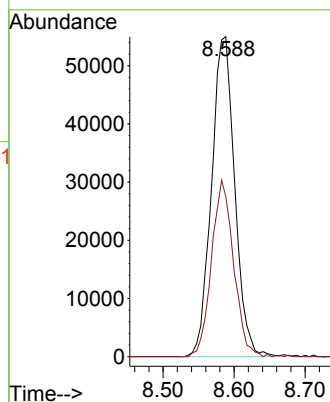
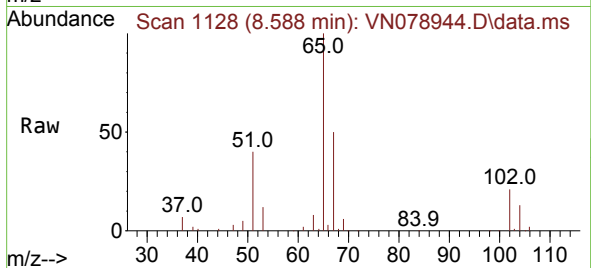
ClientSampleId :

Tgt Ion: 65 Resp: 124932

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN078944.D

Acq: 18 Aug 2023 15:58

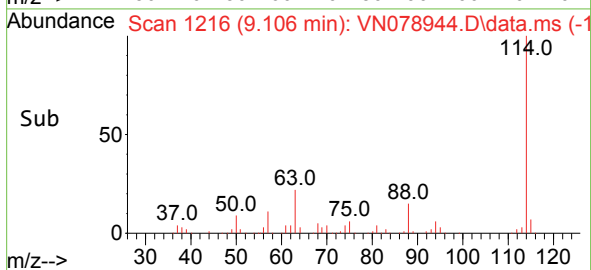
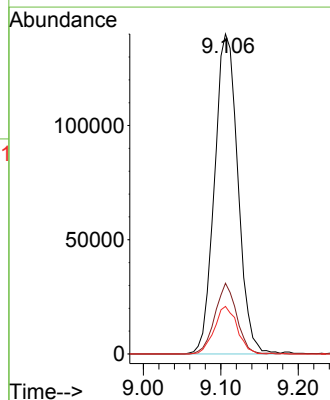
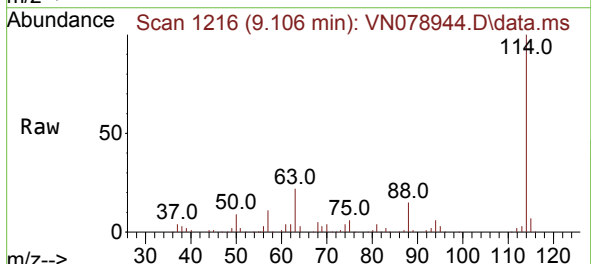
Tgt Ion: 114 Resp: 293297

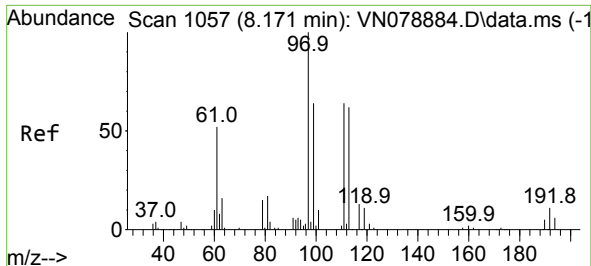
Ion Ratio Lower Upper

114 100

63 22.1 0.0 36.4

88 14.8 0.0 30.6





#35

Dibromofluoromethane

Concen: 52.120 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

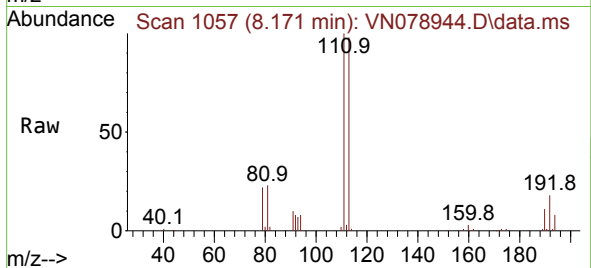
Lab File: VN078944.D

Acq: 18 Aug 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :



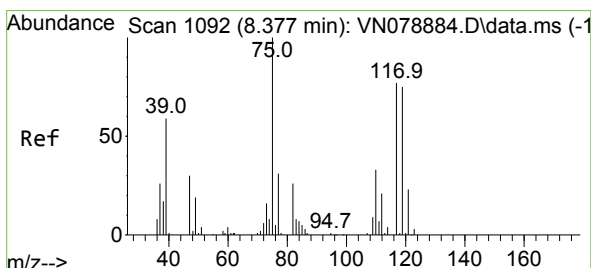
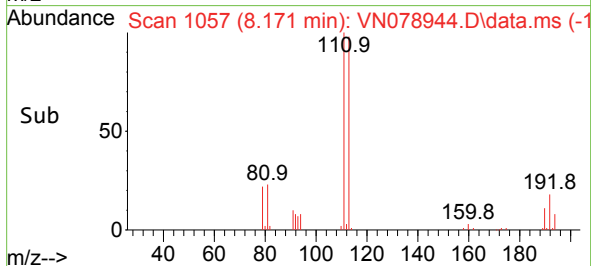
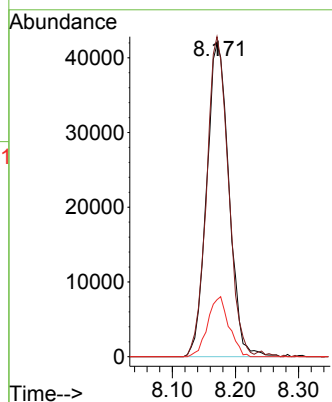
Tgt Ion:113 Resp: 102902

Ion Ratio Lower Upper

113 100

111 99.5 82.6 123.8

192 18.2 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.964 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN078944.D

Acq: 18 Aug 2023 15:58

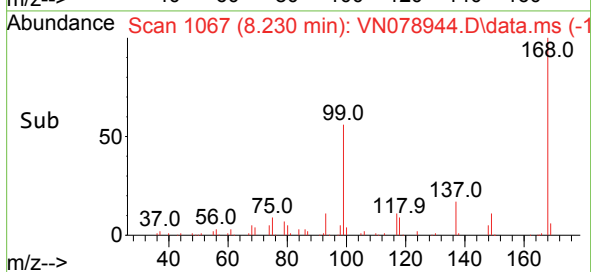
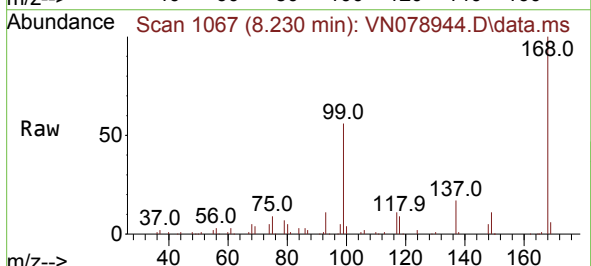
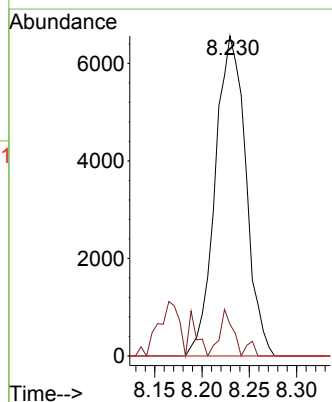
Tgt Ion: 75 Resp: 14743

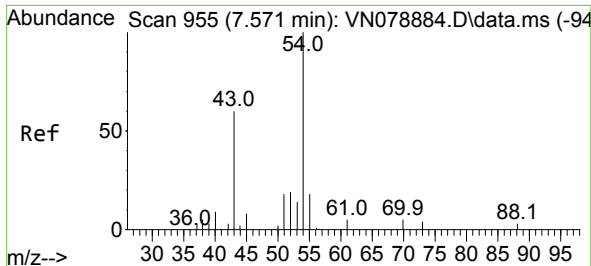
Ion Ratio Lower Upper

75 100

110 6.2 19.1 57.3#

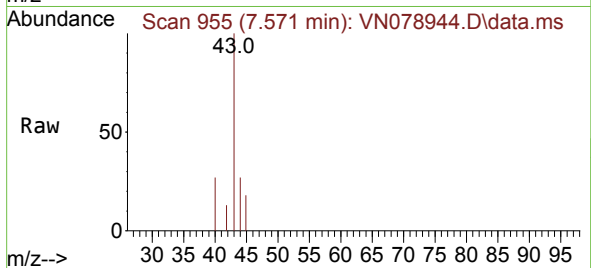
77 0.0 25.0 37.4#



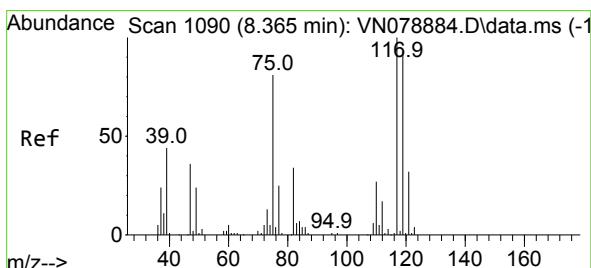
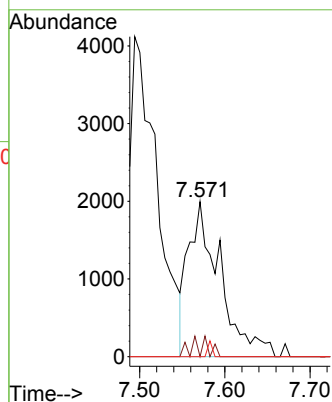
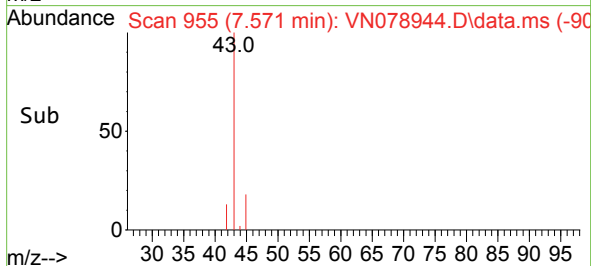


#37
Ethyl Acetate
Concen: 1.561 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

Instrument :
MSVOA_N
ClientSampleId :

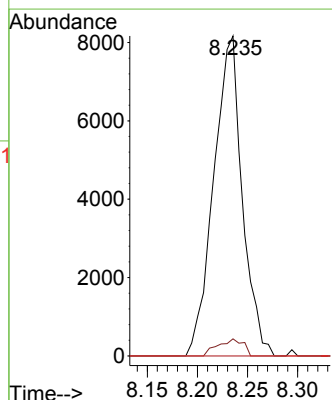
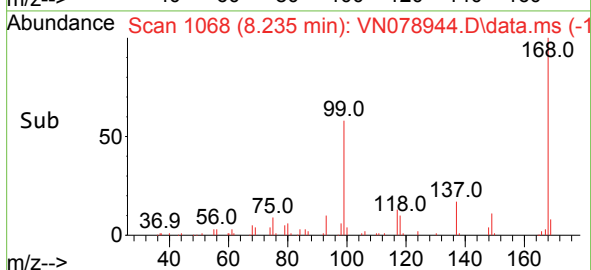
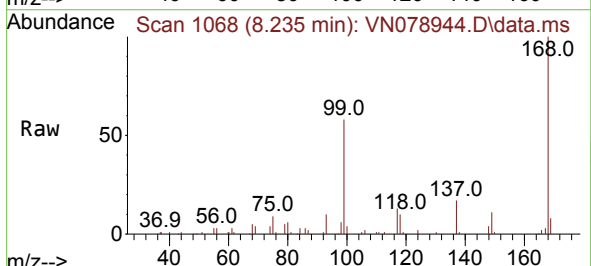


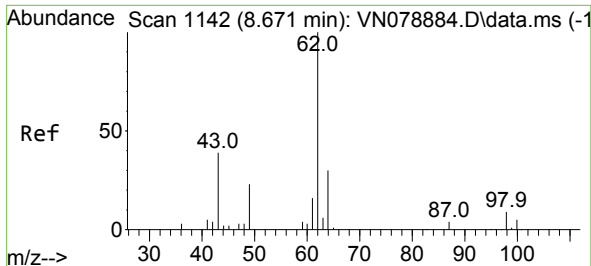
Tgt Ion: 43 Resp: 5187
Ion Ratio Lower Upper
43 100
61 1.8 13.2 19.8#
70 1.4 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 5.442 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.136 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

Tgt Ion: 117 Resp: 16194
Ion Ratio Lower Upper
117 100
119 5.3 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.222 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.017 min

Lab File: VN078944.D

Acq: 18 Aug 2023 15:58

Instrument :

MSVOA_N

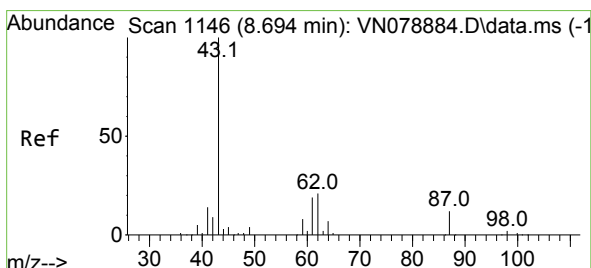
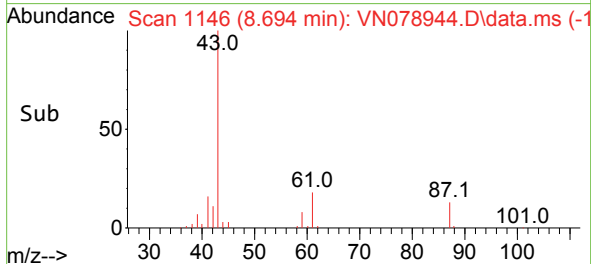
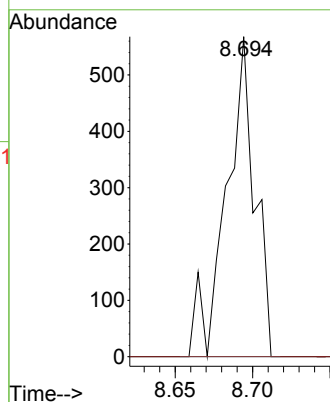
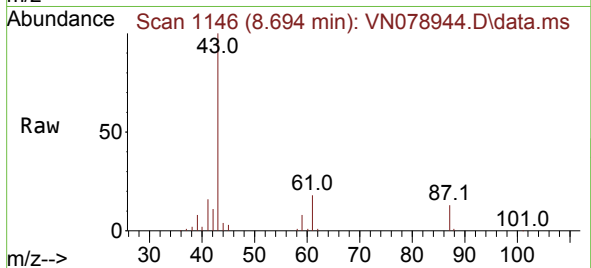
ClientSampleId :

Tgt Ion: 62 Resp: 728

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 29.597 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078944.D

Acq: 18 Aug 2023 15:58

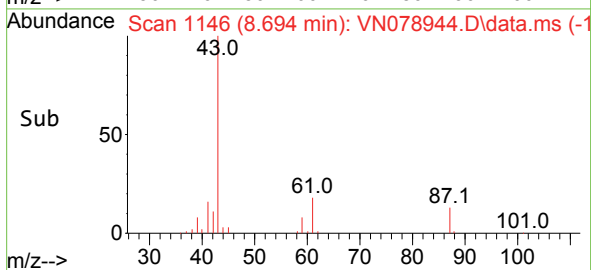
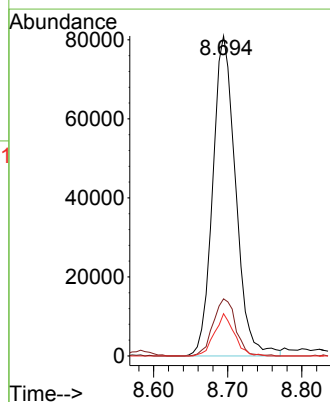
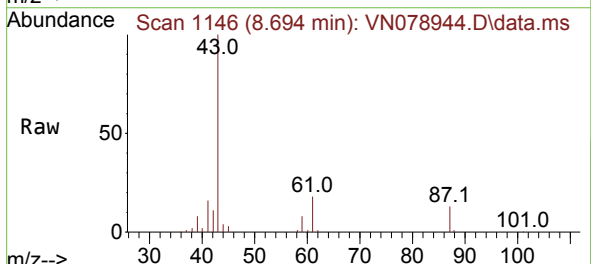
Tgt Ion: 43 Resp: 173827

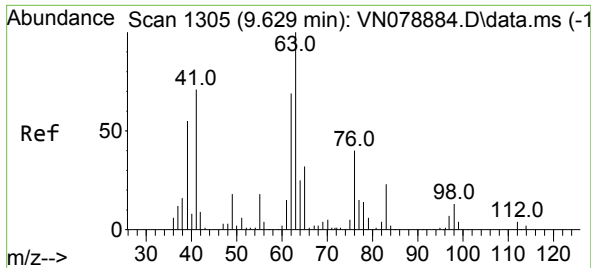
Ion Ratio Lower Upper

43 100

61 17.6 24.7 37.1#

87 11.5 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.884 ug/l

RT: 9.753 min Scan# 11

Delta R.T. 0.129 min

Lab File: VN078944.D

Acq: 18 Aug 2023 15:58

Instrument :

MSVOA_N

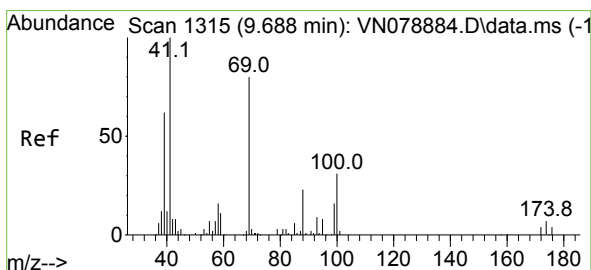
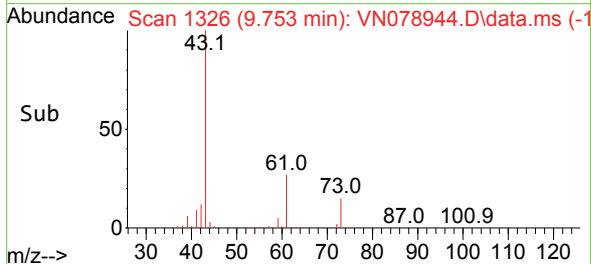
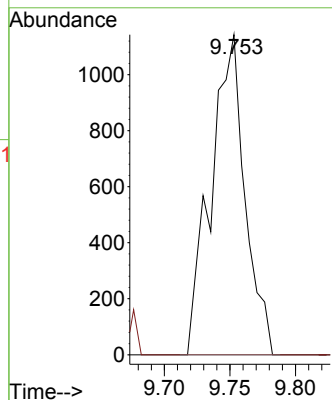
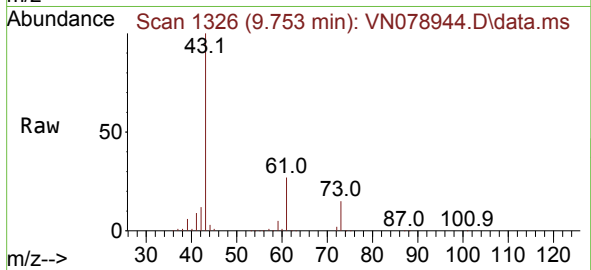
ClientSampleId :

Tgt Ion: 63 Resp: 2065

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 2.007 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.017 min

Lab File: VN078944.D

Acq: 18 Aug 2023 15:58

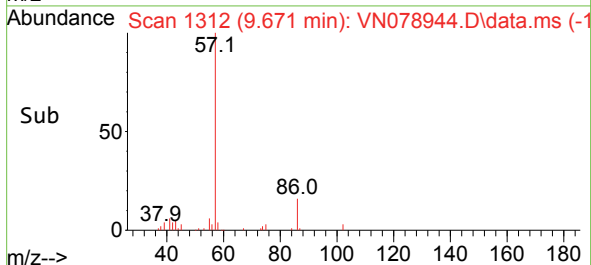
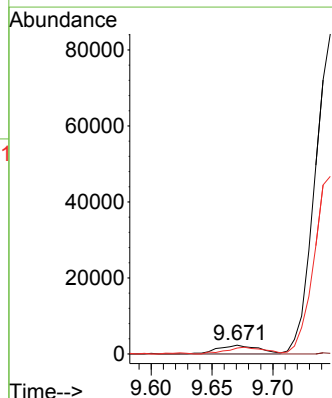
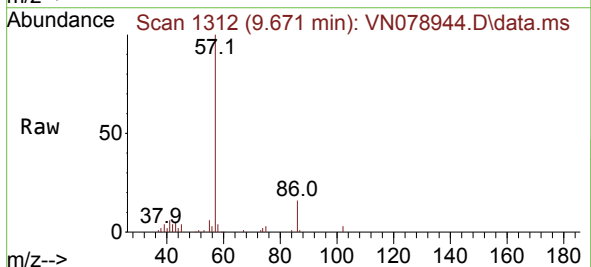
Tgt Ion: 41 Resp: 5341

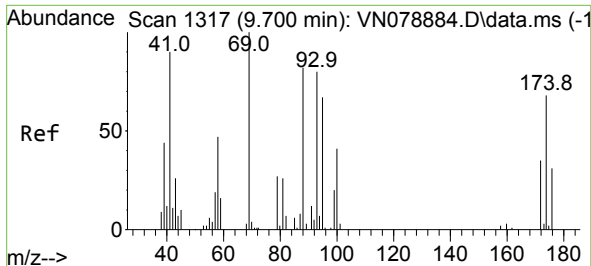
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 71.9 54.6 81.8





#49

1,4-Dioxane

Concen: 4.853 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.047 min

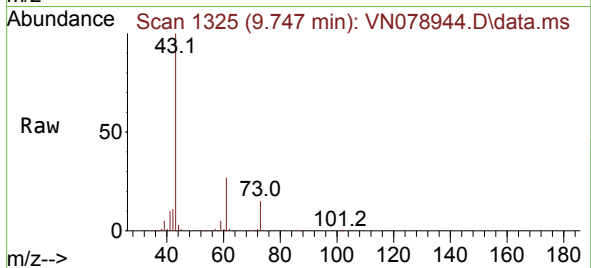
Lab File: VN078944.D

Acq: 18 Aug 2023 15:58

Instrument :

MSVOA_N

ClientSampleId :



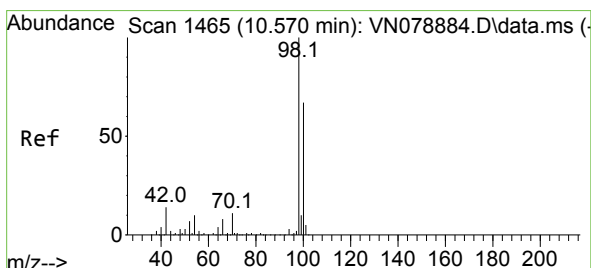
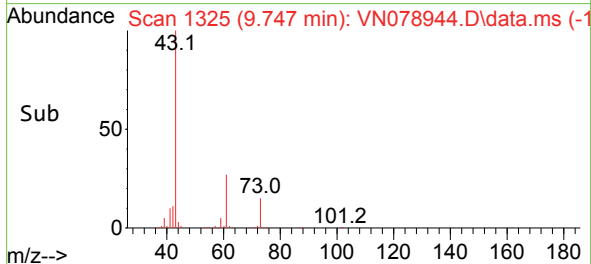
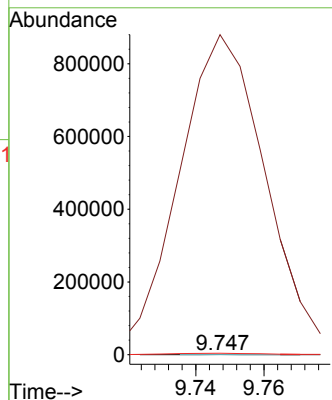
Tgt Ion: 88 Resp: 220

Ion Ratio Lower Upper

88 100

43 721034.5 17.0 25.6#

58 3541.4 47.0 70.4#



#50

Toluene-d8

Concen: 53.536 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078944.D

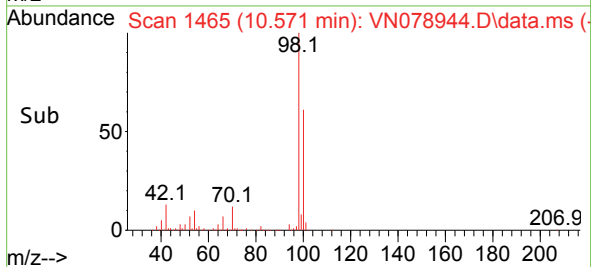
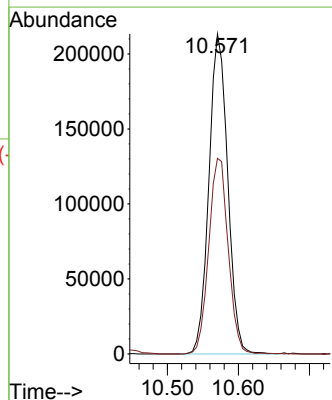
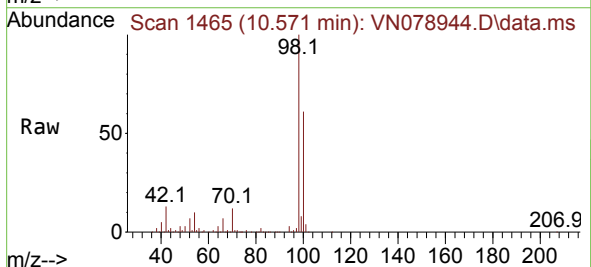
Acq: 18 Aug 2023 15:58

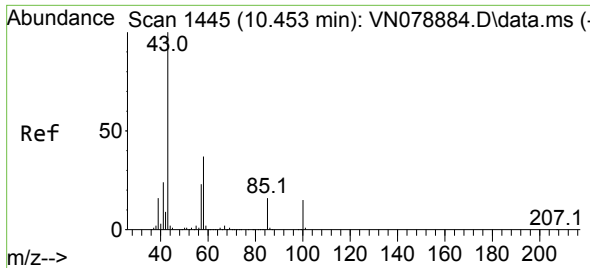
Tgt Ion: 98 Resp: 392465

Ion Ratio Lower Upper

98 100

100 63.3 52.0 78.0

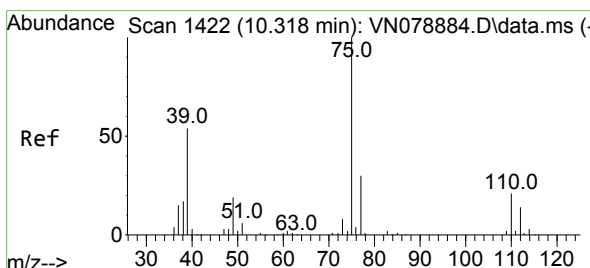
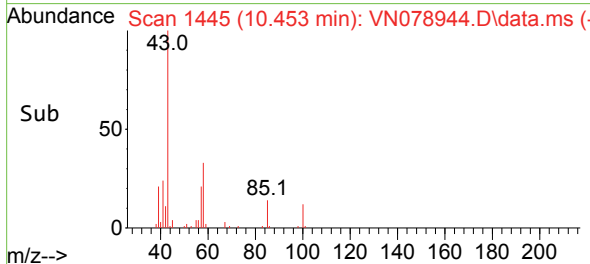
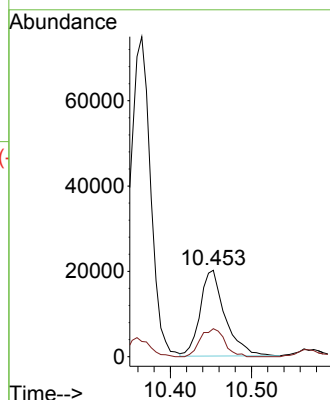
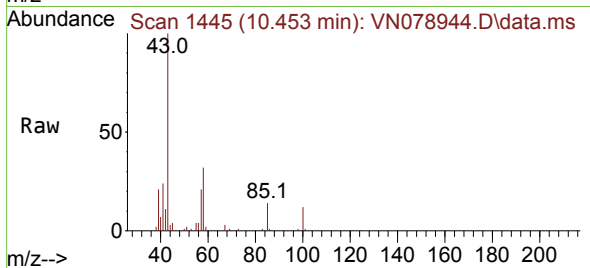




#51
4-Methyl-2-Pentanone
Concen: 12.304 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

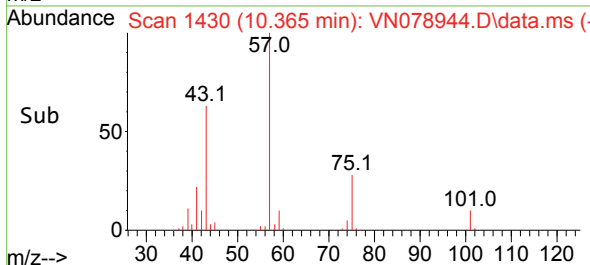
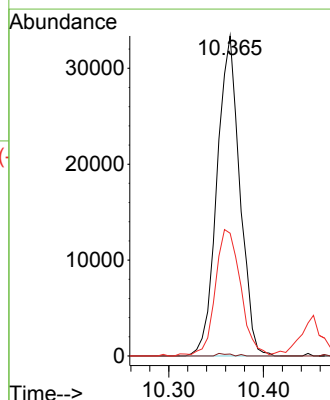
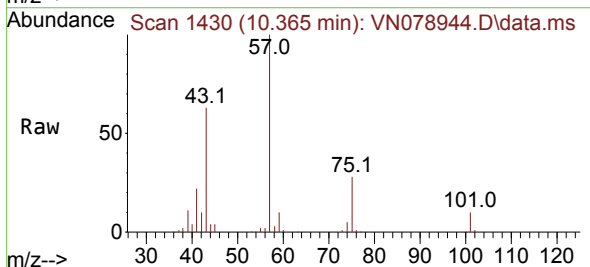
Instrument :
MSVOA_N
ClientSampleId :

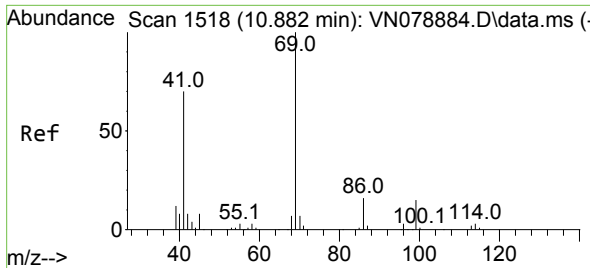
Tgt Ion: 43 Resp: 42858
Ion Ratio Lower Upper
43 100
58 31.8 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 15.124 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

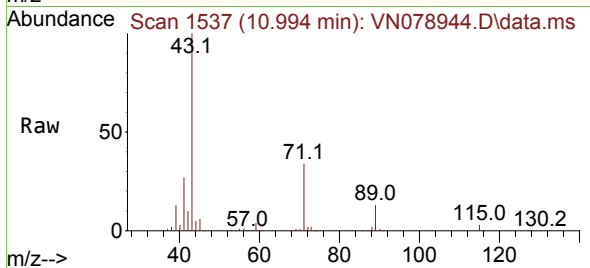
Tgt Ion: 75 Resp: 55916
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 37.7 31.6 47.4



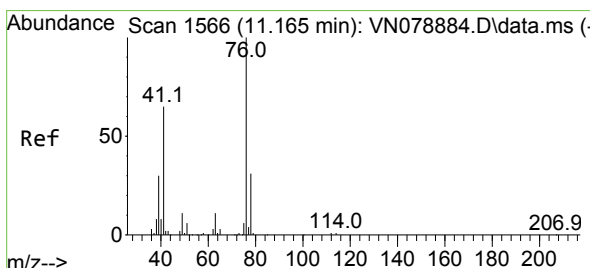
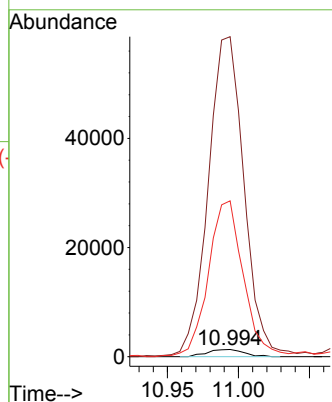
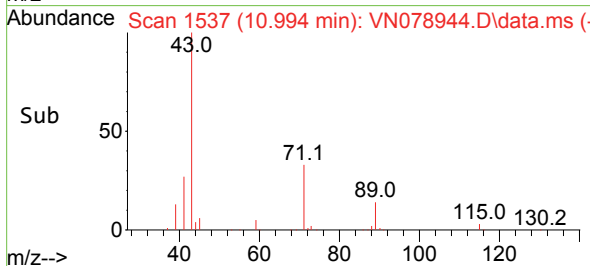


#56
Ethyl methacrylate
Concen: 0.710 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.117 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

Instrument :
MSVOA_N
ClientSampleId :

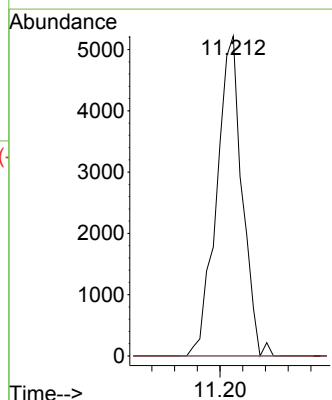
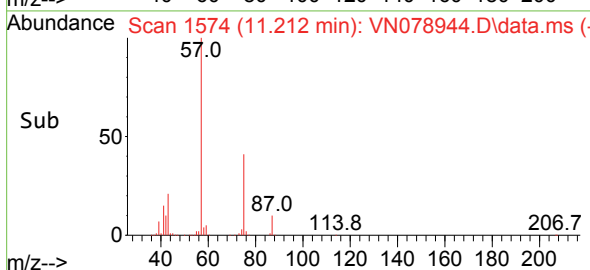
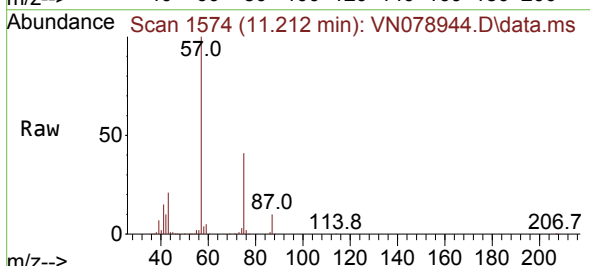


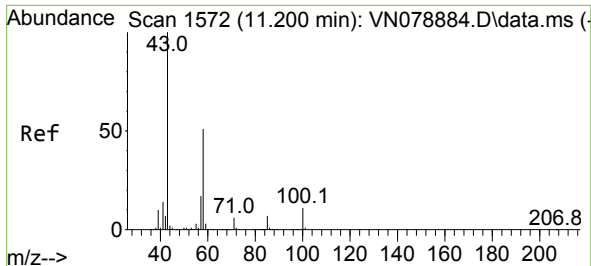
Tgt Ion: 69 Resp: 2378
Ion Ratio Lower Upper
69 100
41 4344.4 39.6 59.4#
39 2050.7 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 2.107 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.047 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

Tgt Ion: 76 Resp: 8143
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

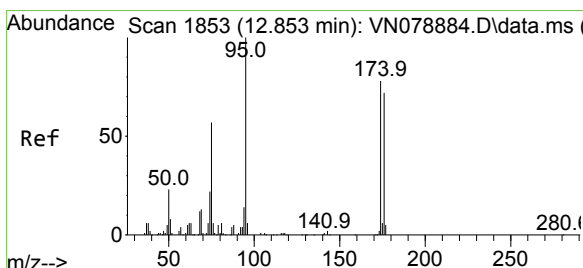
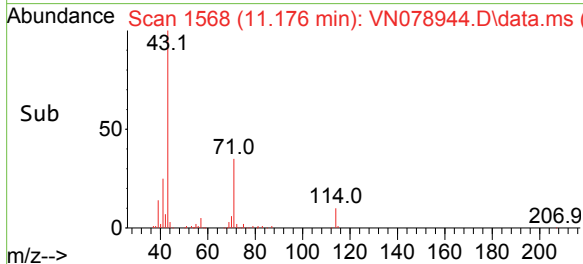
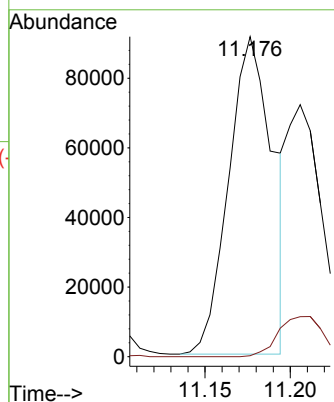
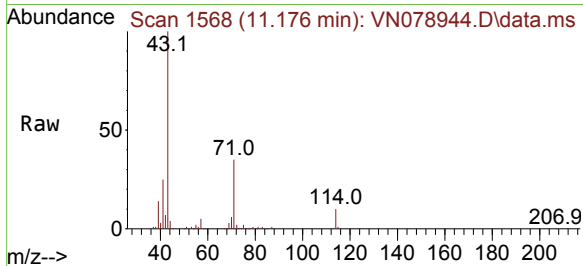




#59
2-Hexanone
Concen: 65.005 ug/l
RT: 11.176 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

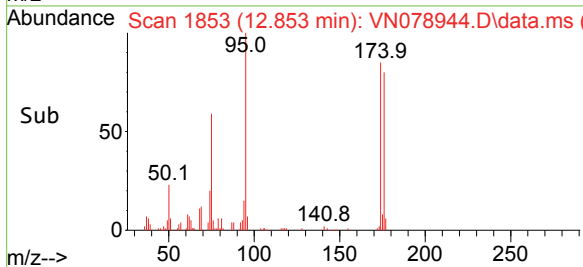
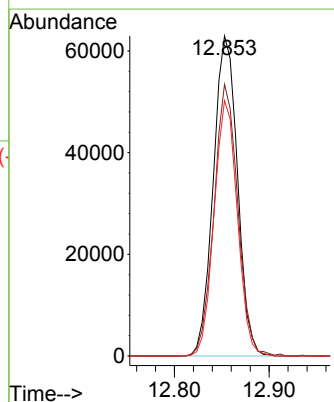
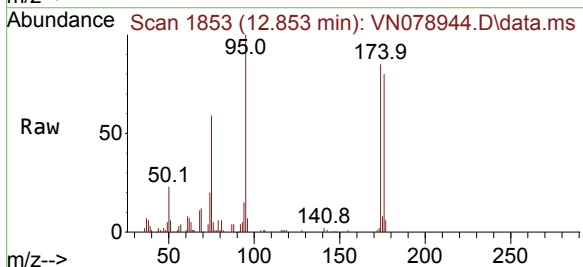
Instrument :
MSVOA_N
ClientSampleId :

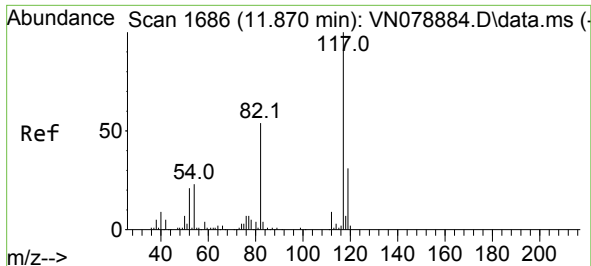
Tgt Ion: 43 Resp: 164009
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 46.421 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

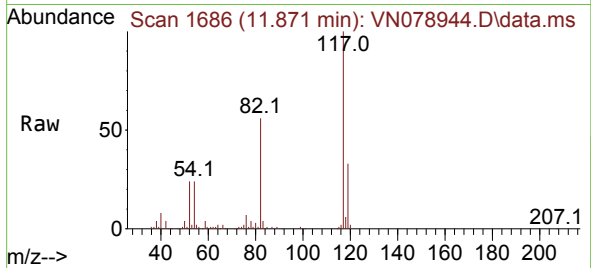
Tgt Ion: 95 Resp: 111232
Ion Ratio Lower Upper
95 100
174 84.1 0.0 143.8
176 76.8 0.0 135.8



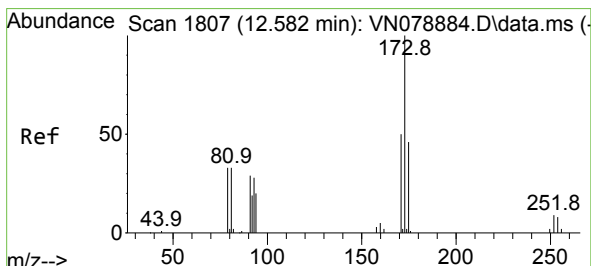
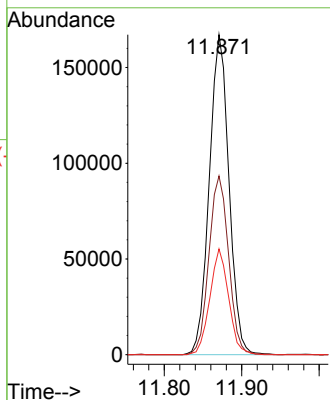
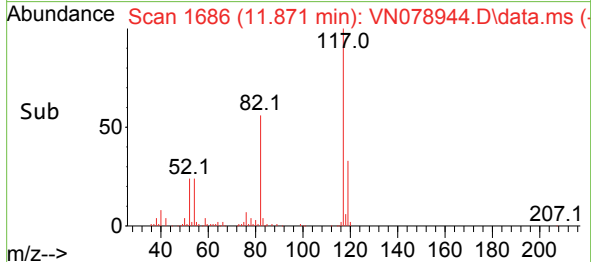


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

Instrument :
MSVOA_N
ClientSampleId :

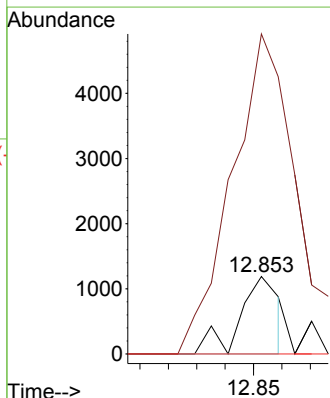
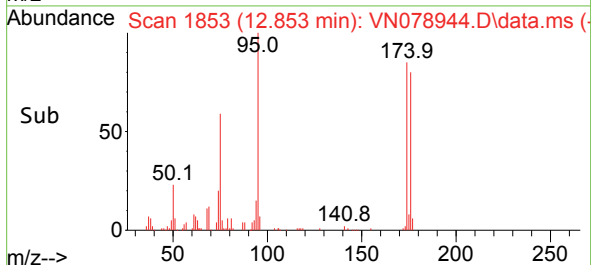
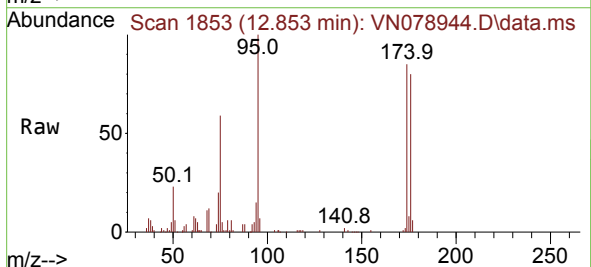


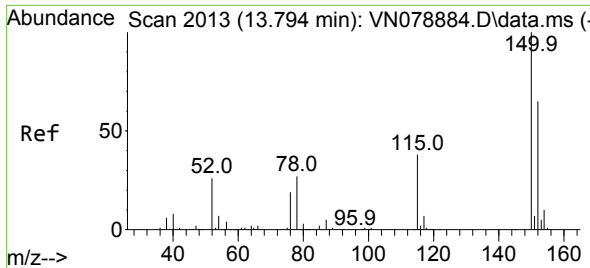
Tgt Ion:117 Resp: 295249
Ion Ratio Lower Upper
117 100
82 55.9 44.0 66.0
119 33.0 25.6 38.4



#71
Bromoform
Concen: 0.671 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

Tgt Ion:173 Resp: 1158
Ion Ratio Lower Upper
173 100
175 512.3 24.3 73.0#
254 0.0 0.0 0.0

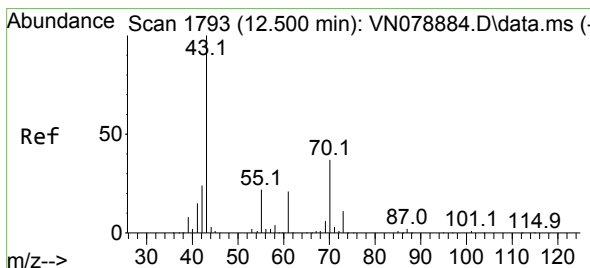
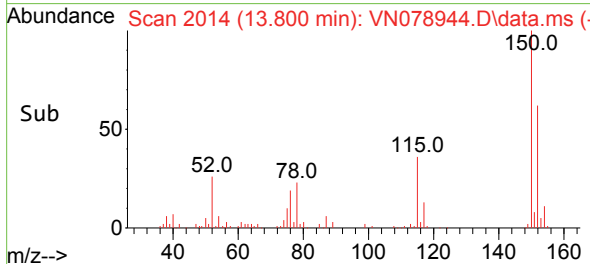
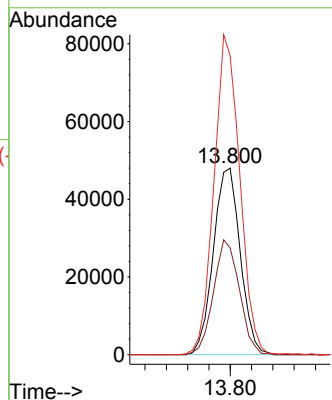
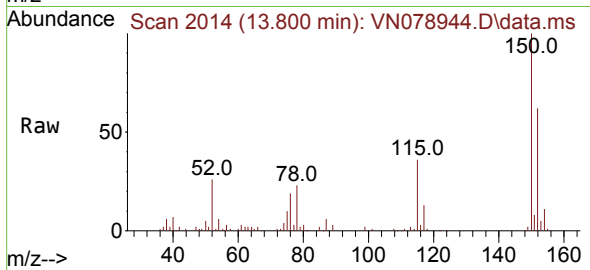




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 2013
 Delta R.T. 0.006 min
 Lab File: VN078944.D
 Acq: 18 Aug 2023 15:58

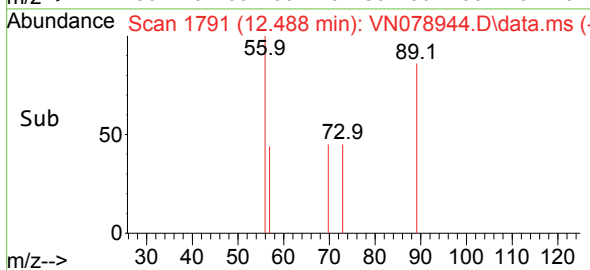
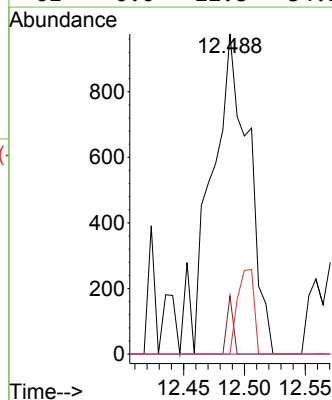
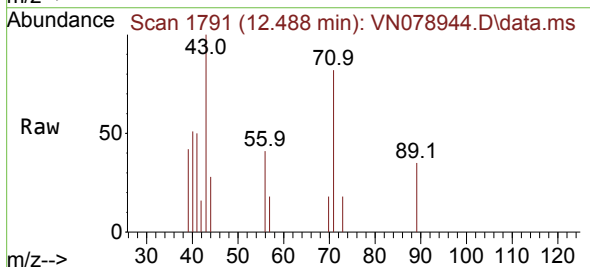
Instrument :
 MSVOA_N
 ClientSampleId :

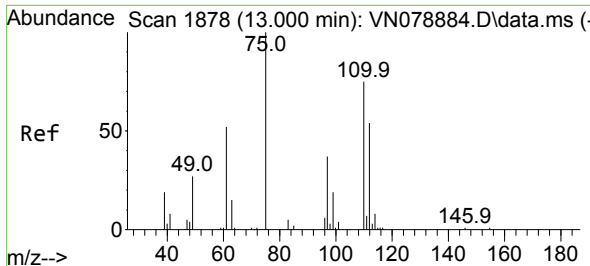
Tgt Ion:152 Resp: 84128
 Ion Ratio Lower Upper
 152 100
 115 59.3 32.3 96.8
 150 164.5 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.592 ug/l
 RT: 12.488 min Scan# 1791
 Delta R.T. -0.012 min
 Lab File: VN078944.D
 Acq: 18 Aug 2023 15:58

Tgt Ion: 43 Resp: 2095
 Ion Ratio Lower Upper
 43 100
 70 3.0 43.4 65.2#
 55 11.5 21.4 32.0#
 61 0.0 22.8 34.2#

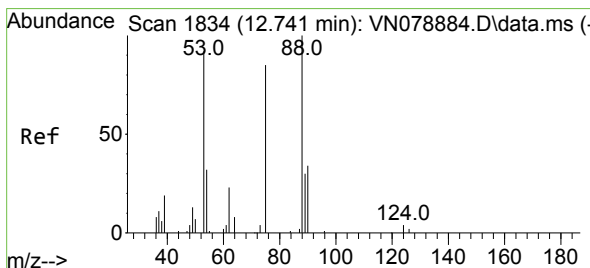
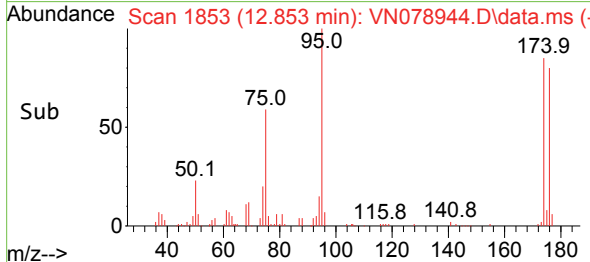
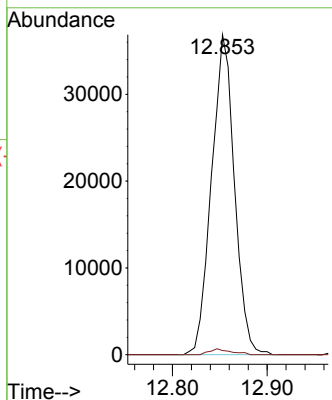
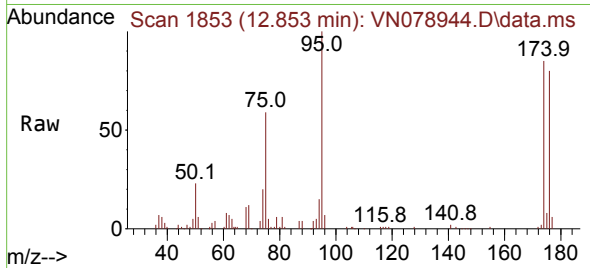




#76
1,2,3-Trichloropropane
Concen: 30.548 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

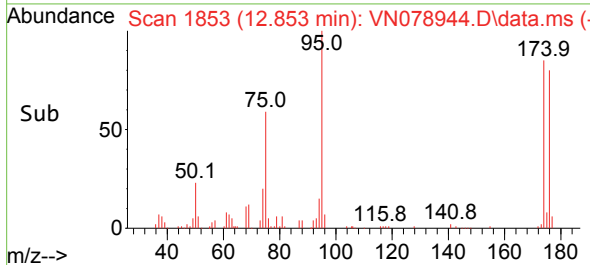
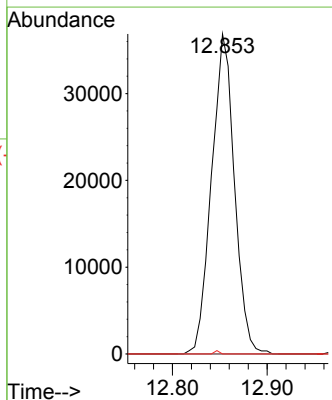
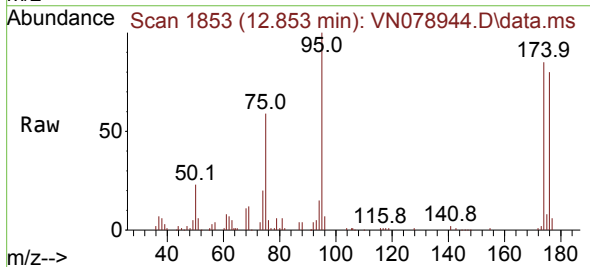
Instrument :
MSVOA_N
ClientSampleId :

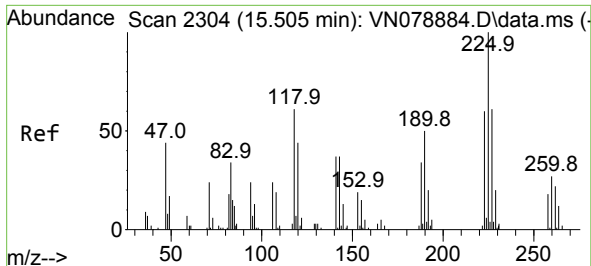
Tgt Ion: 75 Resp: 61923
Ion Ratio Lower Upper
75 100
77 1.7 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 78.037 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

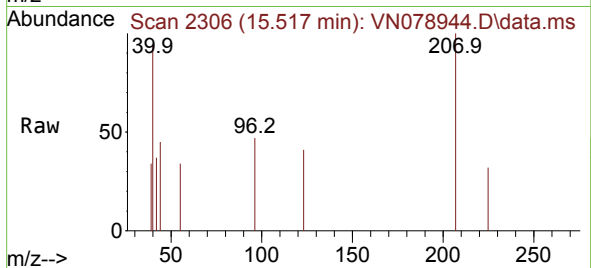
Tgt Ion: 75 Resp: 61923
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.2 38.8 58.2#



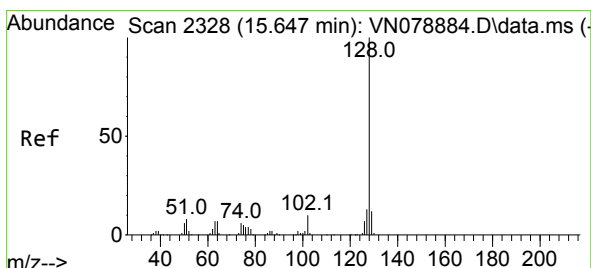
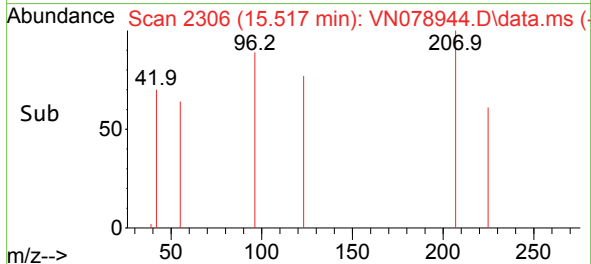
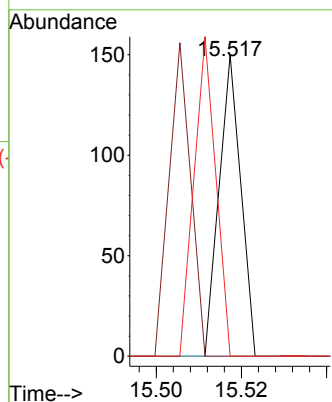


#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.517 min Scan# 21
Delta R.T. 0.011 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:225 Resp: 53
Ion Ratio Lower Upper
225 100
223 103.8 31.3 93.8#
227 105.7 31.9 95.9#



#95
Naphthalene
Concen: 2.877 ug/l
RT: 15.653 min Scan# 2329
Delta R.T. 0.006 min
Lab File: VN078944.D
Acq: 18 Aug 2023 15:58

Tgt Ion:128 Resp: 1238
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

