

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082223\
 Data File : VN079004.D
 Acq On : 22 Aug 2023 19:13
 Operator : JC\MD
 Sample : 04091-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 23 03:07:56 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

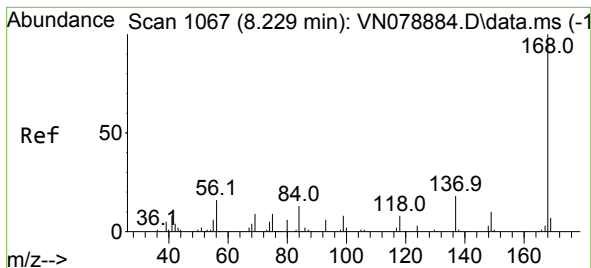
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.229	168	176401	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	354768	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	346692	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	105660	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	146983	53.547	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.100%			
35) Dibromofluoromethane	8.171	113	121788	50.998	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.000%			
50) Toluene-d8	10.571	98	444584	50.138	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.280%			
62) 4-Bromofluorobenzene	12.853	95	138514	47.791	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.580%			
Target Compounds					Qvalue	
3) Chloromethane	2.371	50	928	0.272	ug/l #	85
6) Chloroethane	3.112	64	640	0.305	ug/l #	43
16) Acetone	4.441	43	26546	23.438	ug/l	92
18) Methyl Acetate	5.041	43	5036	1.053	ug/l #	61
20) Methylene Chloride	5.277	84	11981	4.964	ug/l #	80
25) 2-Butanone	7.500	43	9101	5.012	ug/l #	80
29) Tetrahydrofuran	7.859	42	324	0.270	ug/l #	20
31) Cyclohexane	8.224	56	5218	Below Cal	#	64
36) 1,1-Dichloropropene	8.235	75	15075	4.196	ug/l #	51
37) Ethyl Acetate	7.577	43	3438	0.855	ug/l #	75
38) Carbon Tetrachloride	8.224	117	19853	5.516	ug/l #	17
43) Isopropyl Acetate	8.694	43	214818	30.239	ug/l #	70
45) 1,2-Dichloropropane	9.747	63	1444	0.511	ug/l #	45
48) Methyl methacrylate	9.676	41	4802	1.492	ug/l #	29
49) 1,4-Dioxane	9.735	88	57	1.040	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	37979	9.014	ug/l #	78
54) cis-1,3-Dichloropropene	10.359	75	44582	9.969	ug/l #	71
56) Ethyl methacrylate	10.982	69	1725	0.426	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	5473	1.171	ug/l #	42
59) 2-Hexanone	11.176	43	128503	42.107	ug/l #	19
71) Bromoform	12.853	173	894	0.441	ug/l #	1
74) N-amyl acetate	12.482	43	1566	0.352	ug/l #	41
76) 1,2,3-Trichloropropane	12.853	75	76832	30.179	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	76832	77.094	ug/l #	15
95) Naphthalene	15.629	128	109	2.596	ug/l #	70

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.001 min

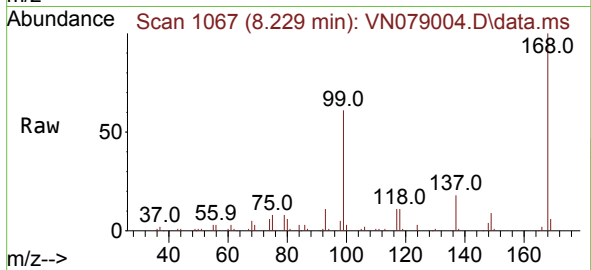
Lab File: VN079004.D

Acq: 22 Aug 2023 19:13

Instrument :

MSVOA_N

ClientSampleId :

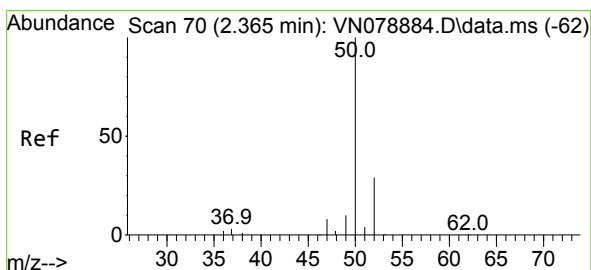
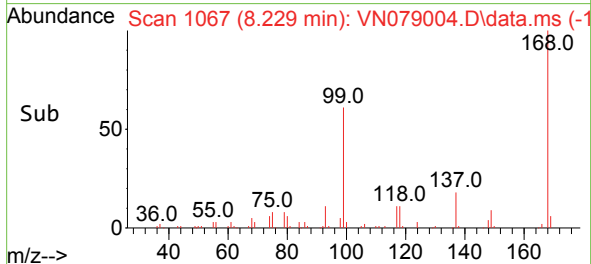
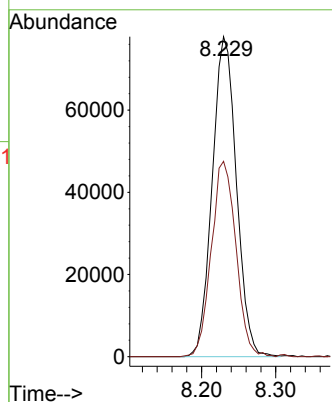


Tgt Ion:168 Resp: 176401

Ion Ratio Lower Upper

168 100

99 61.1 53.0 79.6



#3

Chloromethane

Concen: 0.272 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN079004.D

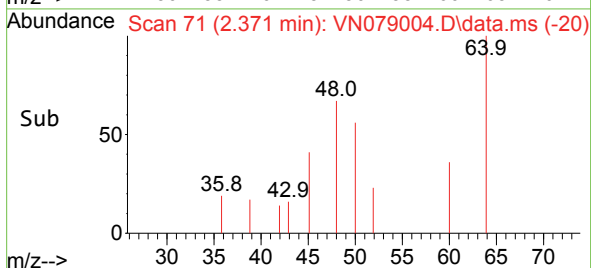
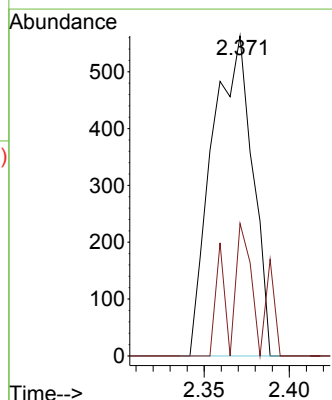
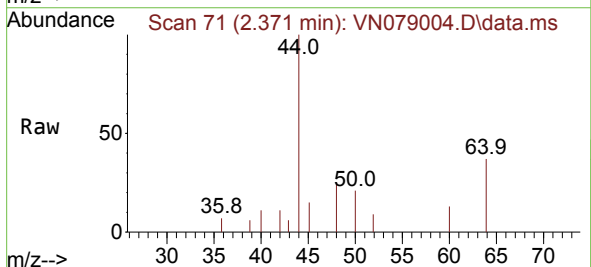
Acq: 22 Aug 2023 19:13

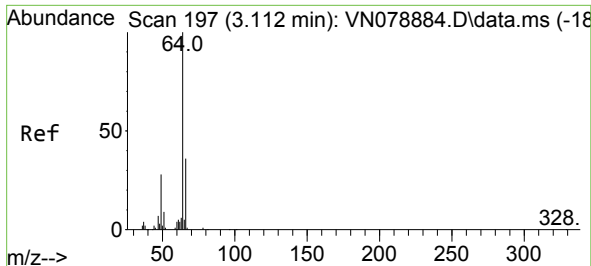
Tgt Ion: 50 Resp: 928

Ion Ratio Lower Upper

50 100

52 41.4 26.5 39.7#

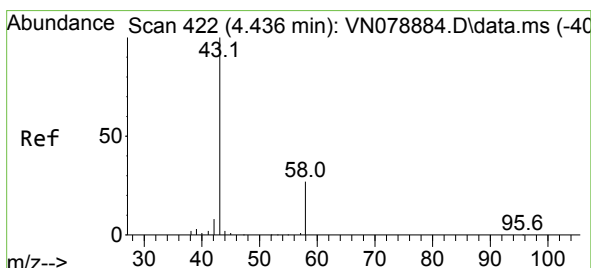
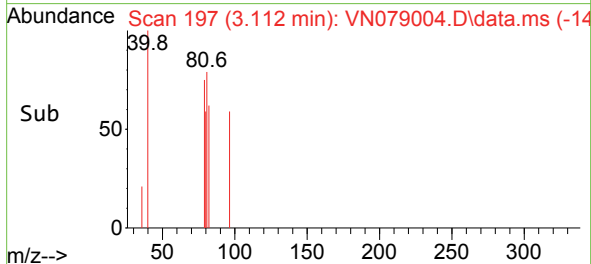
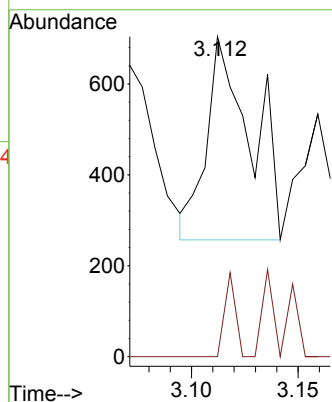
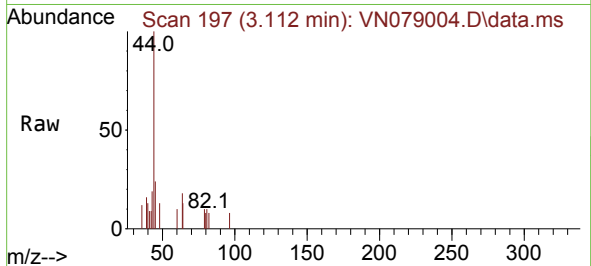




#6
Chloroethane
Concen: 0.305 ug/l
RT: 3.112 min Scan# 197
Delta R.T. -0.006 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

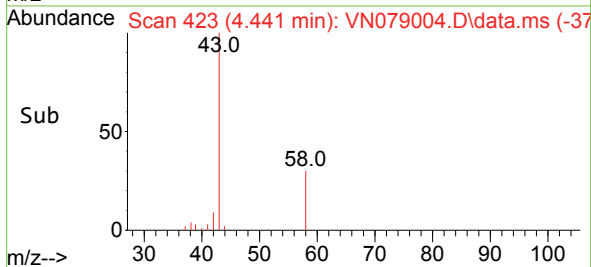
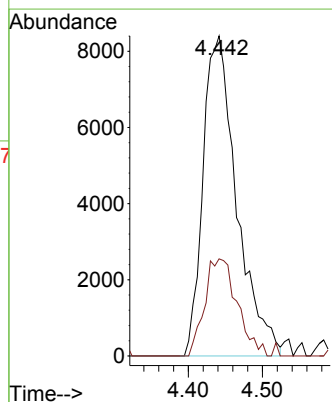
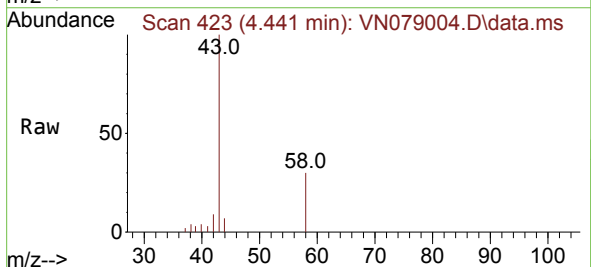
Instrument :
MSVOA_N
ClientSampleId :

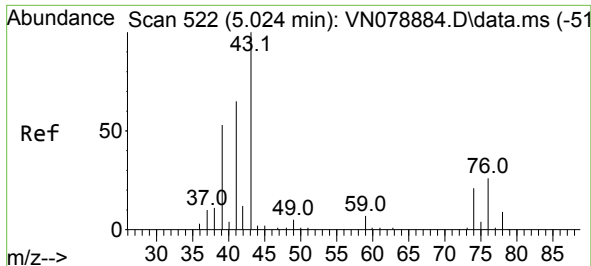
Tgt Ion: 64 Resp: 640
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#16
Acetone
Concen: 23.438 ug/l
RT: 4.441 min Scan# 423
Delta R.T. -0.001 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

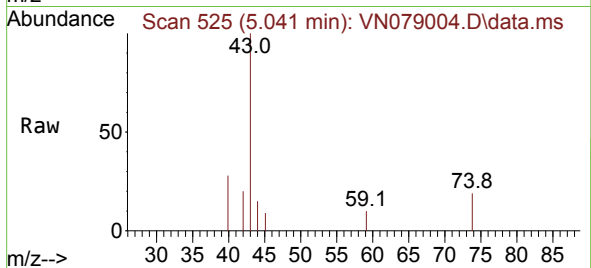
Tgt Ion: 43 Resp: 26546
Ion Ratio Lower Upper
43 100
58 30.3 28.0 42.0



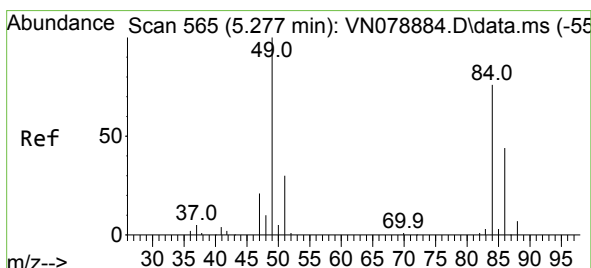
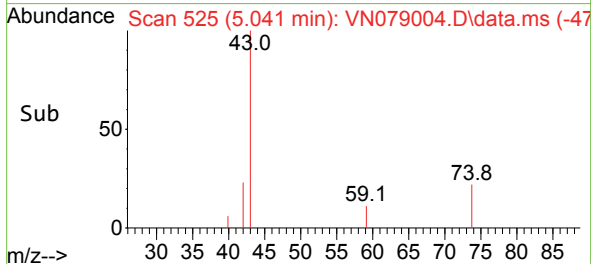
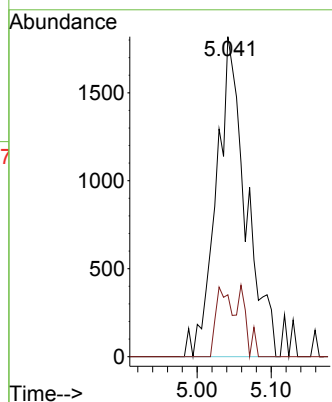


#18
Methyl Acetate
Concen: 1.053 ug/l
RT: 5.041 min Scan# 51
Delta R.T. -0.001 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

Instrument :
MSVOA_N
ClientSampleId :

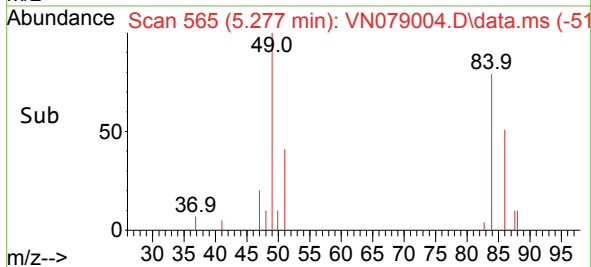
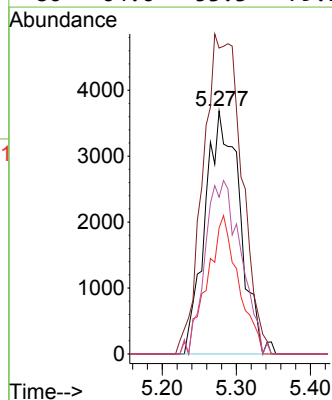
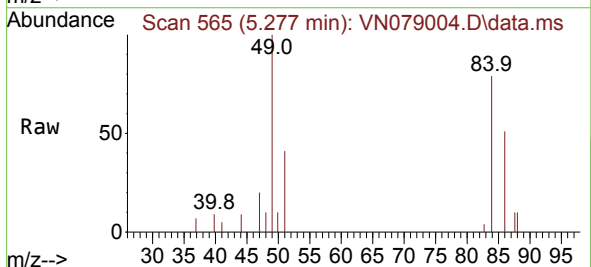


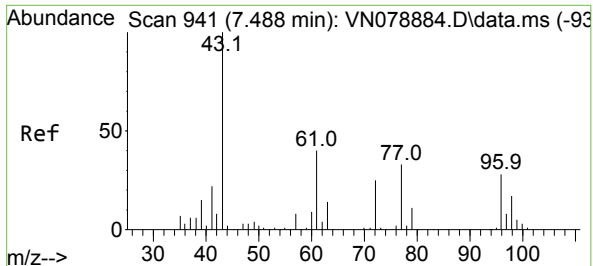
Tgt Ion: 43 Resp: 5036
Ion Ratio Lower Upper
43 100
74 10.7 26.2 39.4#



#20
Methylene Chloride
Concen: 4.964 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

Tgt Ion: 84 Resp: 11981
Ion Ratio Lower Upper
84 100
49 125.9 79.7 119.5#
51 51.9 25.2 37.8#
86 64.6 53.3 79.9

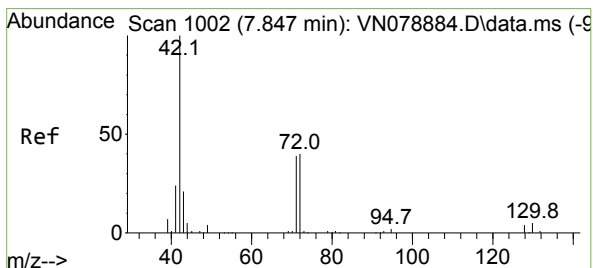
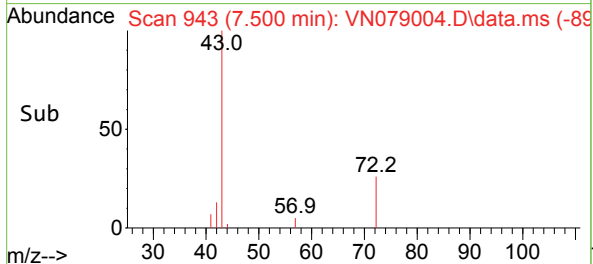
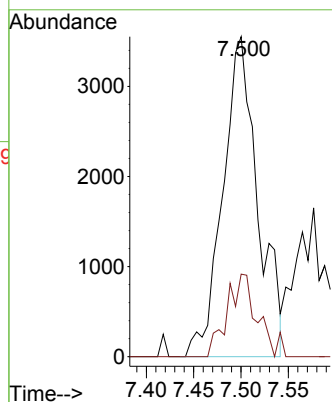
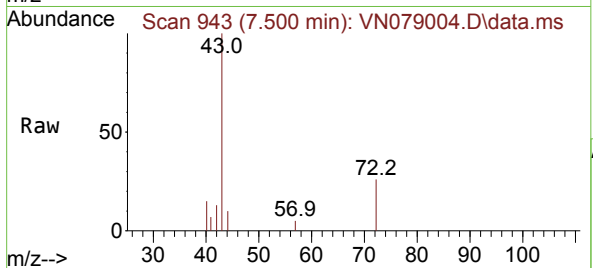




#25
2-Butanone
Concen: 5.012 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

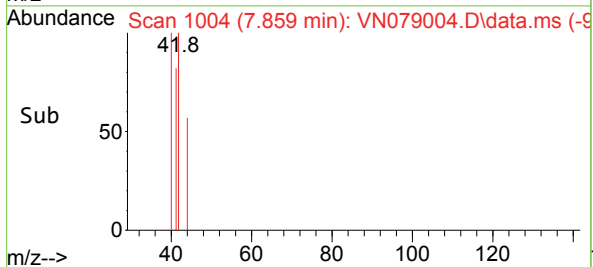
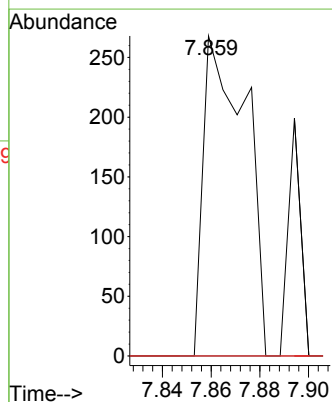
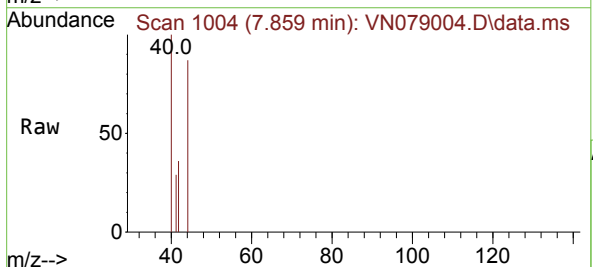
Instrument :
MSVOA_N
ClientSampleId :

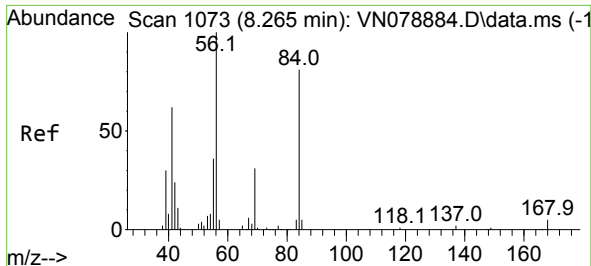
Tgt Ion: 43 Resp: 9101
Ion Ratio Lower Upper
43 100
72 25.8 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.270 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

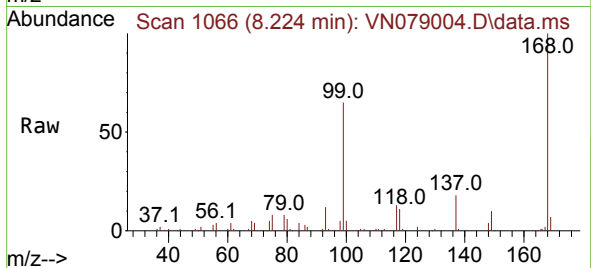
Tgt Ion: 42 Resp: 324
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#



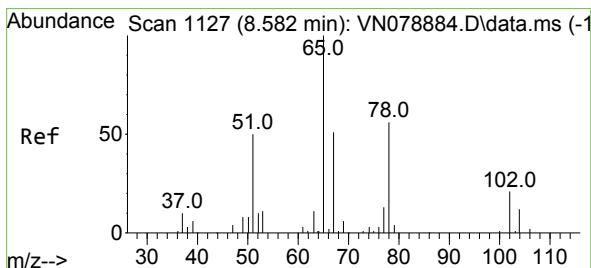
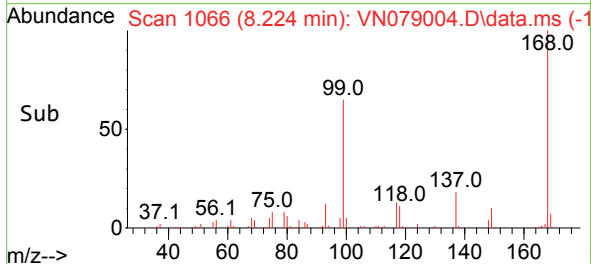
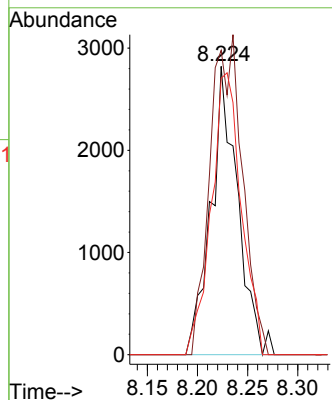


#31
Cyclohexane
Concen: Below Cal
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

Instrument :
MSVOA_N
ClientSampleId :

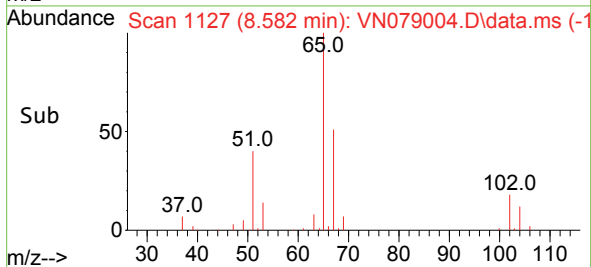
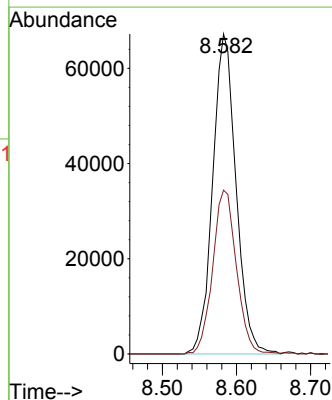
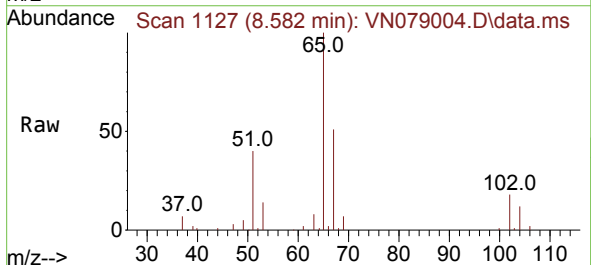


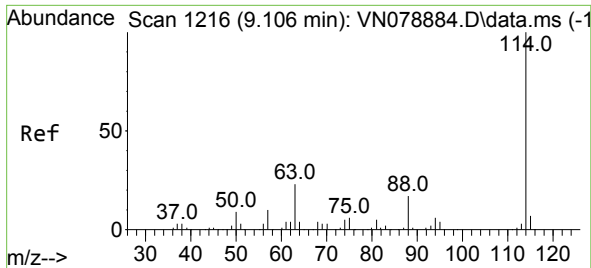
Tgt Ion: 56 Resp: 5218
Ion Ratio Lower Upper
56 100
69 105.6 26.8 40.2#
84 95.9 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 53.547 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

Tgt Ion: 65 Resp: 146983
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.6

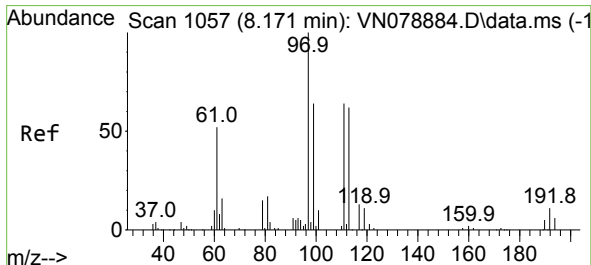
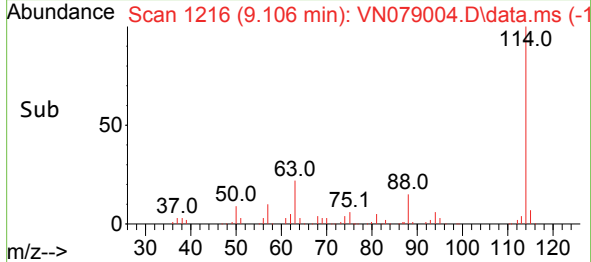
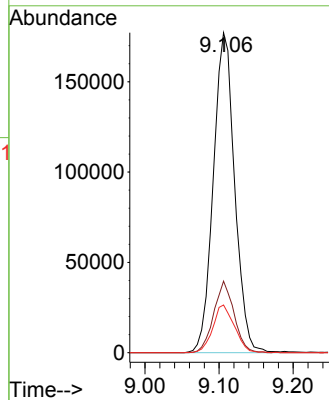
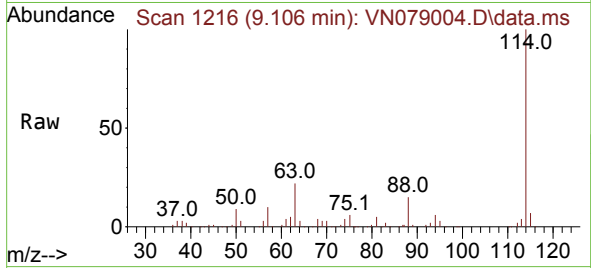




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

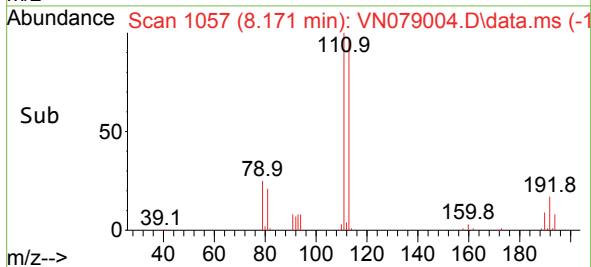
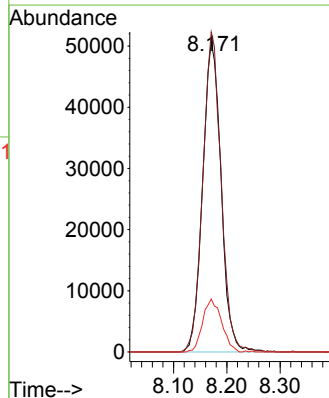
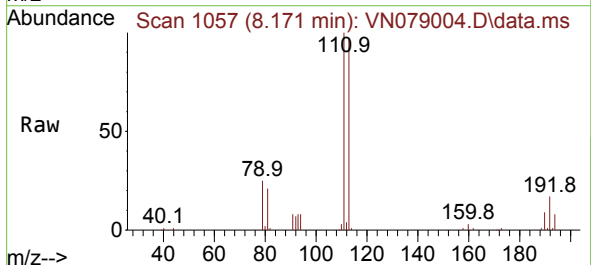
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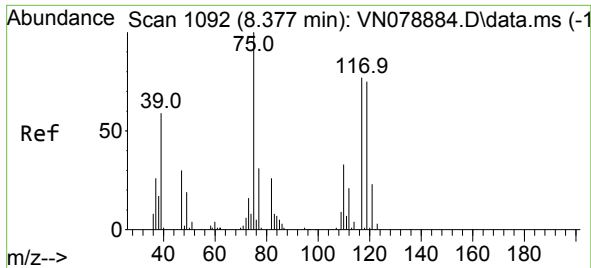
Tgt Ion:114 Resp: 354768
Ion Ratio Lower Upper
114 100
63 22.4 0.0 36.4
88 14.9 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.998 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

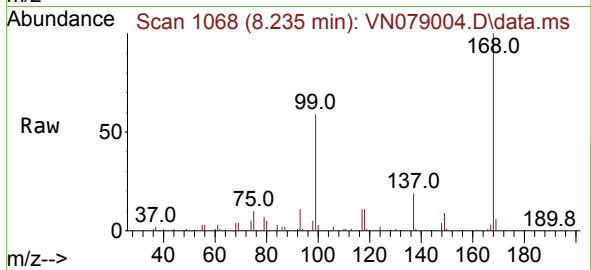
Tgt Ion:113 Resp: 121788
Ion Ratio Lower Upper
113 100
111 102.1 82.6 123.8
192 17.5 12.7 19.1



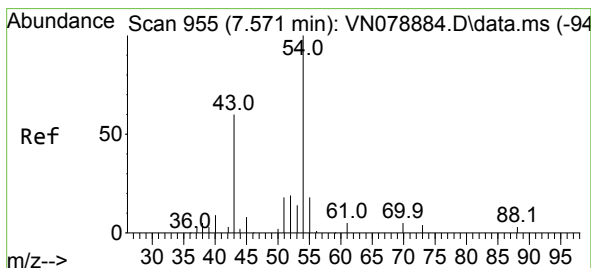
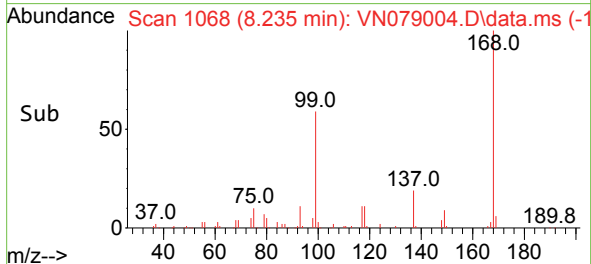
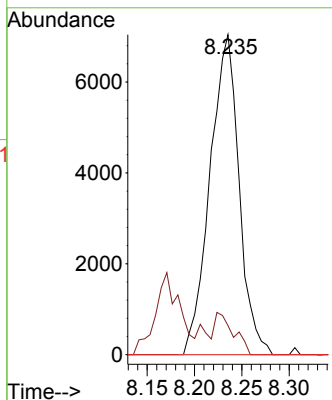


#36
1,1-Dichloropropene
Concen: 4.196 ug/l
RT: 8.235 min Scan# 1092
Delta R.T. -0.142 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

Instrument :
MSVOA_N
ClientSampleId :

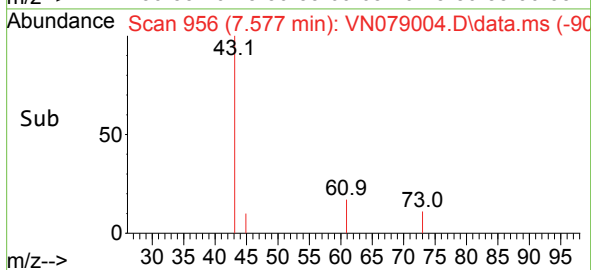
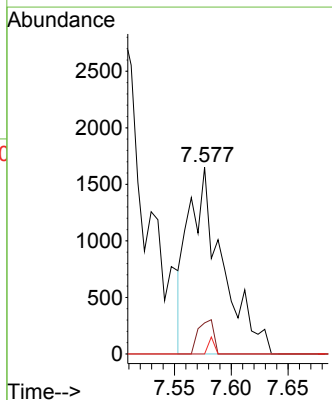
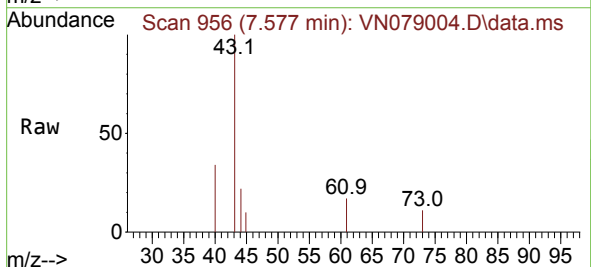


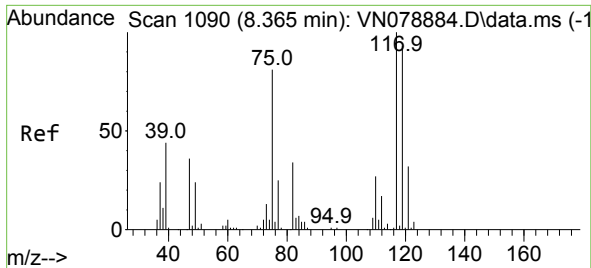
Tgt Ion: 75 Resp: 15075
Ion Ratio Lower Upper
75 100
110 11.9 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 0.855 ug/l
RT: 7.577 min Scan# 956
Delta R.T. 0.006 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

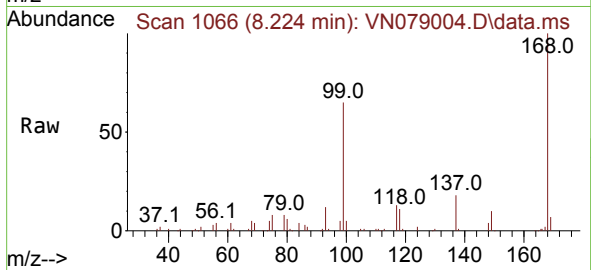
Tgt Ion: 43 Resp: 3438
Ion Ratio Lower Upper
43 100
61 8.2 13.2 19.8#
70 1.5 11.3 16.9#



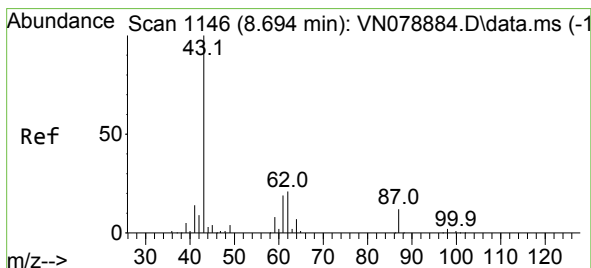
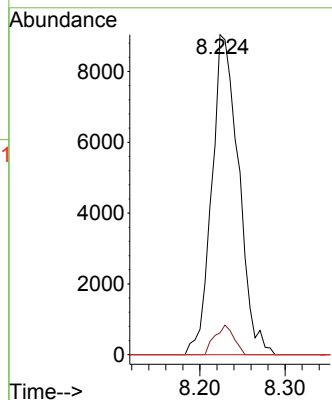
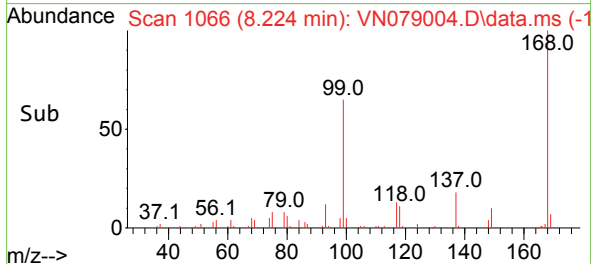


#38
Carbon Tetrachloride
Concen: 5.516 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

Instrument :
MSVOA_N
ClientSampleId :

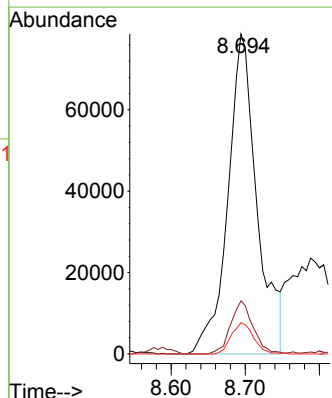
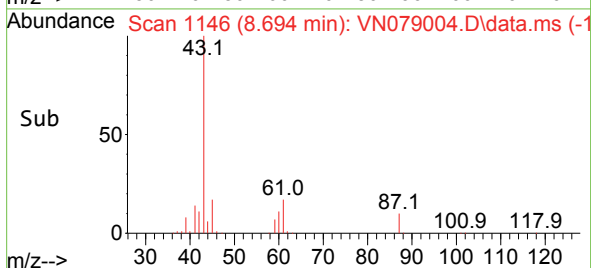
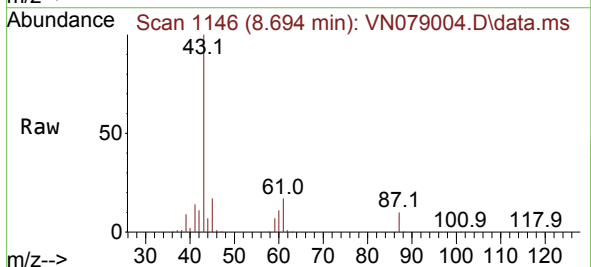


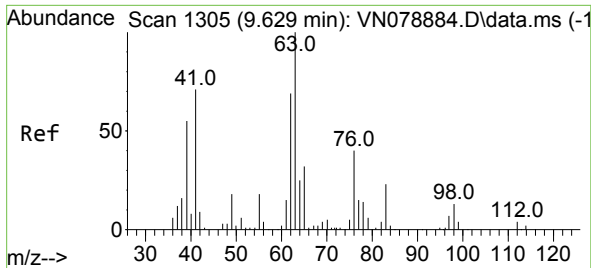
Tgt Ion:117 Resp: 19853
Ion Ratio Lower Upper
117 100
119 6.9 77.3 115.9#
121 0.0 23.3 34.9#



#43
Isopropyl Acetate
Concen: 30.239 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

Tgt Ion: 43 Resp: 214818
Ion Ratio Lower Upper
43 100
61 12.8 24.7 37.1#
87 7.5 14.6 21.8#

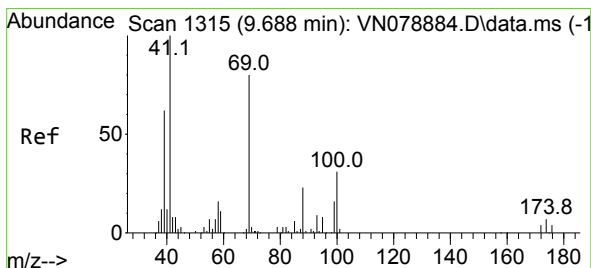
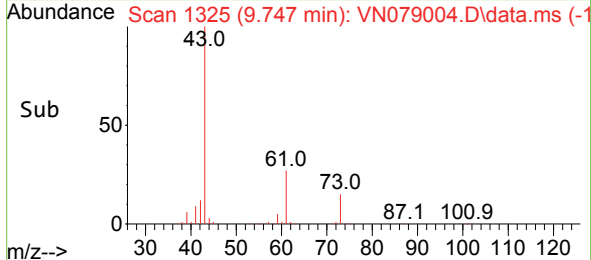
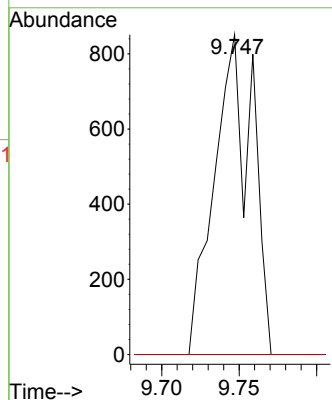
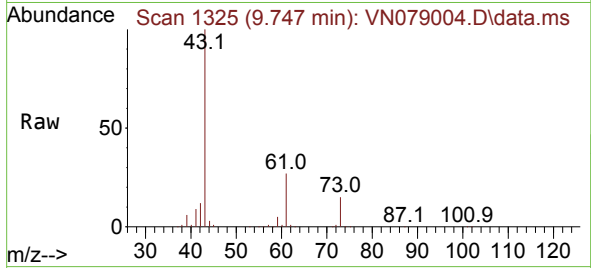




#45
1,2-Dichloropropane
Concen: 0.511 ug/l
RT: 9.747 min Scan# 11
Delta R.T. 0.123 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

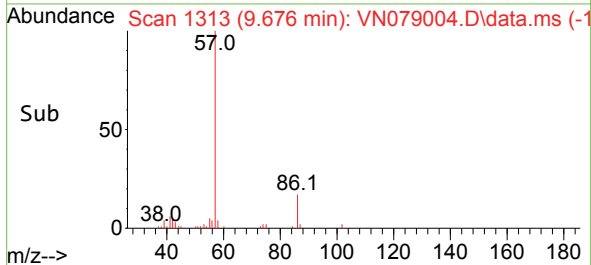
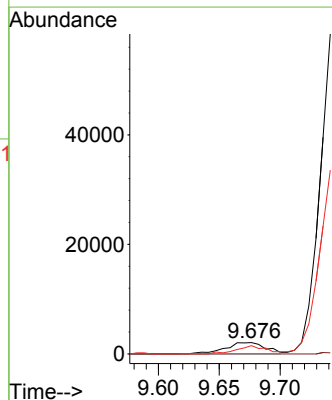
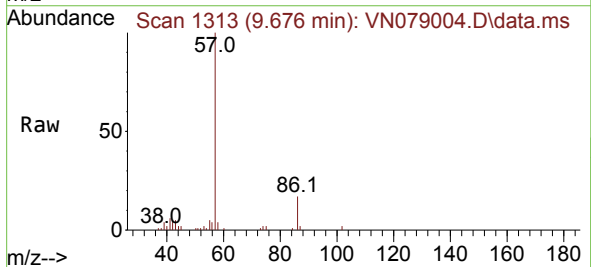
Instrument :
MSVOA_N
ClientSampleId :

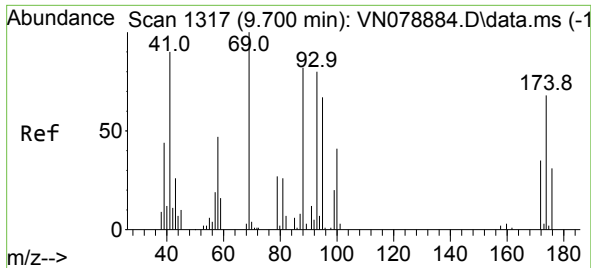
Tgt Ion: 63 Resp: 1444
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#



#48
Methyl methacrylate
Concen: 1.492 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.012 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

Tgt Ion: 41 Resp: 4802
Ion Ratio Lower Upper
41 100
69 0.0 90.4 135.6#
39 57.0 54.6 81.8





#49

1,4-Dioxane

Concen: 1.040 ug/l

RT: 9.735 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN079004.D

Acq: 22 Aug 2023 19:13

Instrument :

MSVOA_N

ClientSampleId :

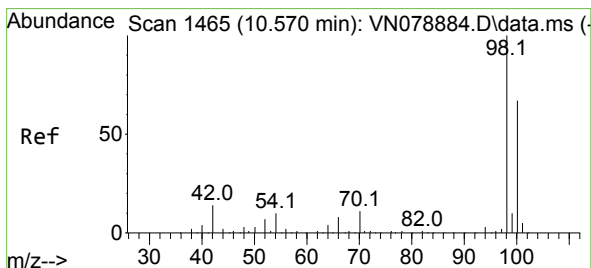
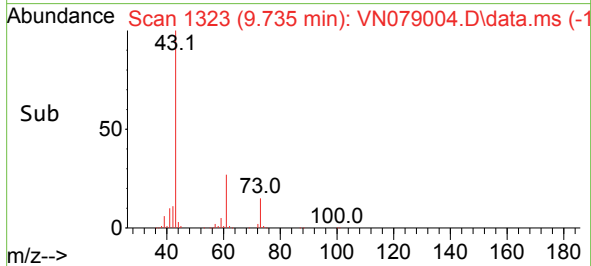
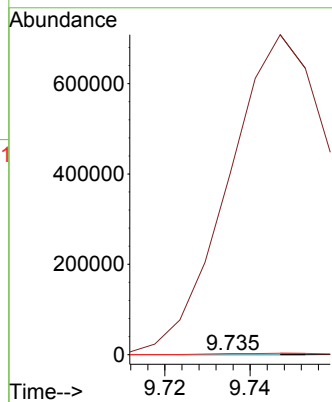
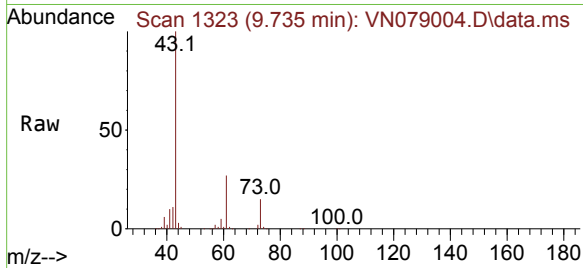
Tgt Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 2212836.8 17.0 25.6#

58 10928.1 47.0 70.4#



#50

Toluene-d8

Concen: 50.138 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN079004.D

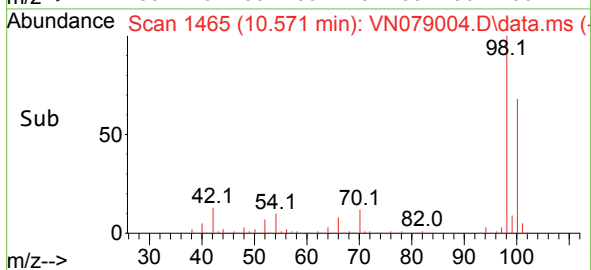
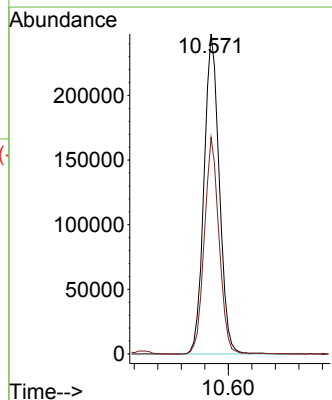
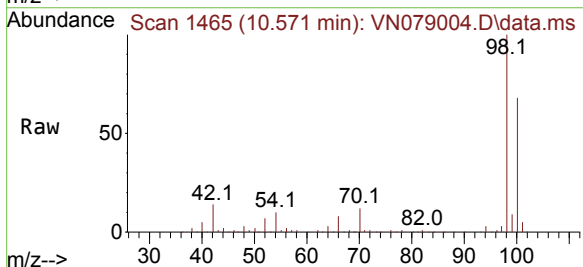
Acq: 22 Aug 2023 19:13

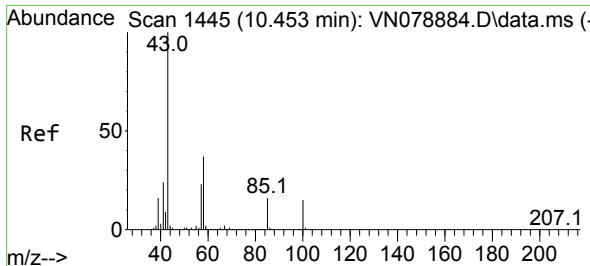
Tgt Ion: 98 Resp: 444584

Ion Ratio Lower Upper

98 100

100 65.3 52.0 78.0

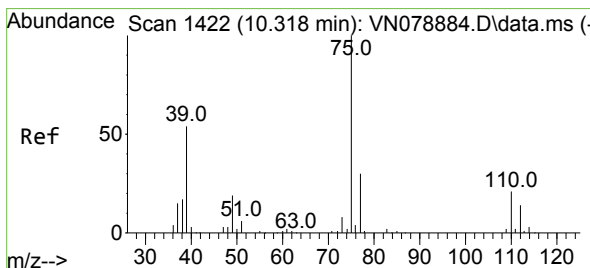
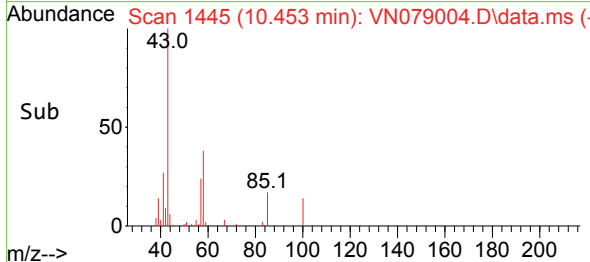
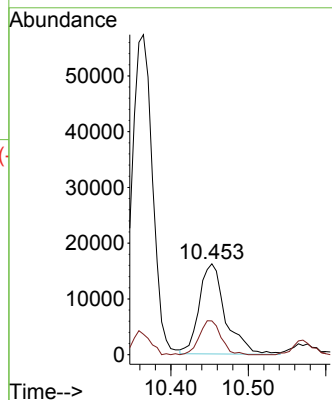
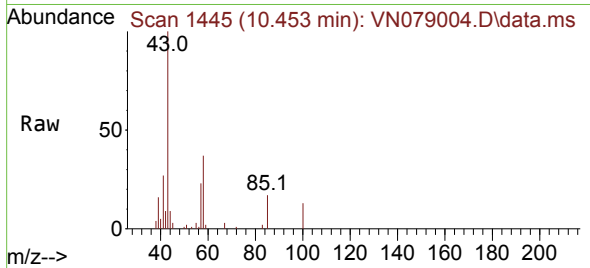




#51
4-Methyl-2-Pentanone
Concen: 9.014 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

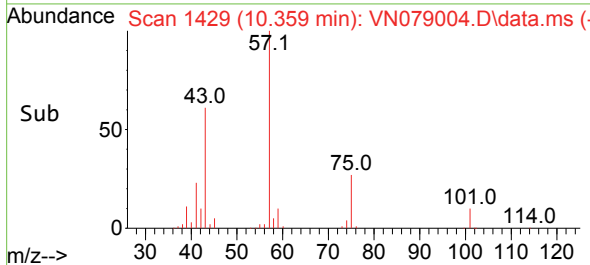
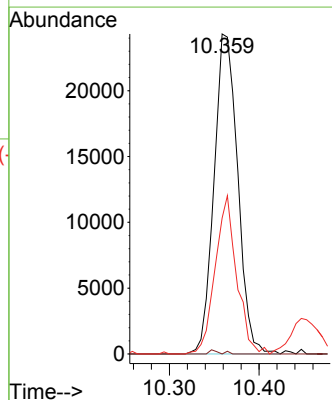
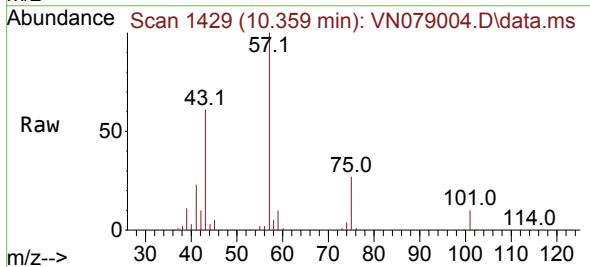
Instrument :
MSVOA_N
ClientSampleId :

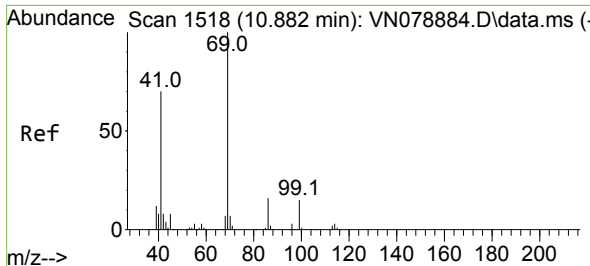
Tgt Ion: 43 Resp: 37979
Ion Ratio Lower Upper
43 100
58 31.1 36.6 54.8#



#54
cis-1,3-Dichloropropene
Concen: 9.969 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

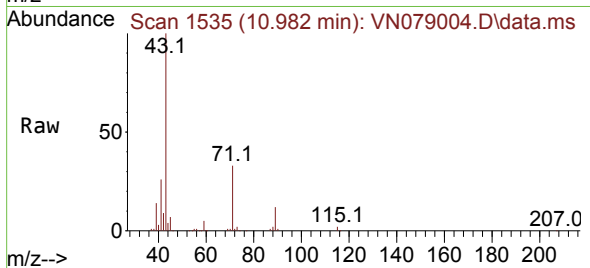
Tgt Ion: 75 Resp: 44582
Ion Ratio Lower Upper
75 100
77 0.0 26.1 39.1#
39 42.4 31.6 47.4



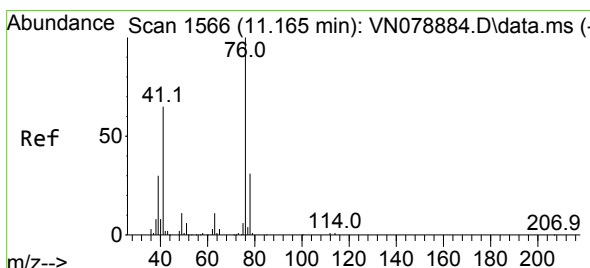
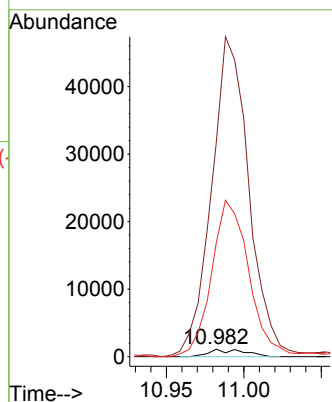
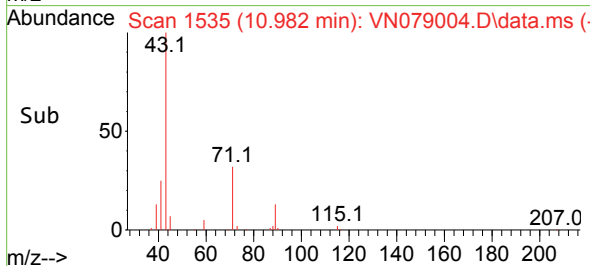


#56
Ethyl methacrylate
Concen: 0.426 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.105 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

Instrument :
MSVOA_N
ClientSampleId :

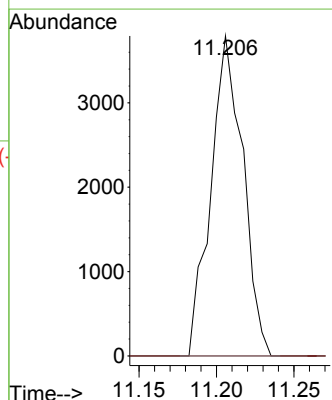
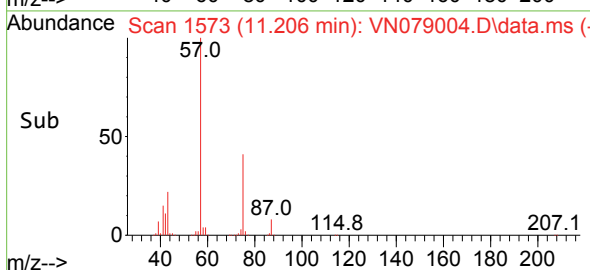
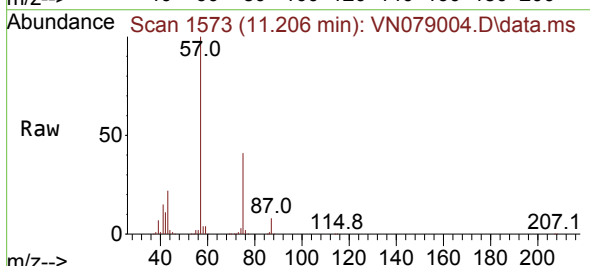


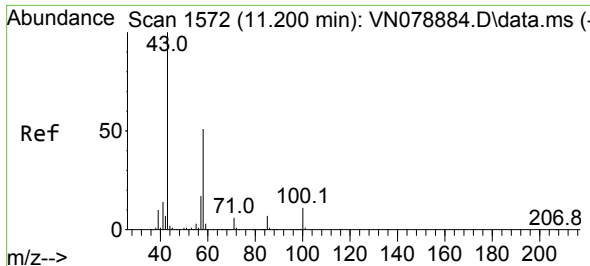
Tgt Ion: 69 Resp: 1725
Ion Ratio Lower Upper
69 100
41 4613.7 39.6 59.4#
39 2271.5 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.171 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.041 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

Tgt Ion: 76 Resp: 5473
Ion Ratio Lower Upper
76 100
78 0.0 26.1 39.1#

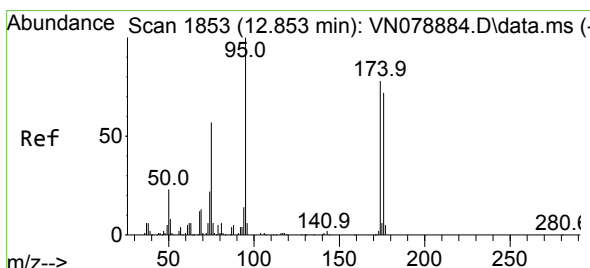
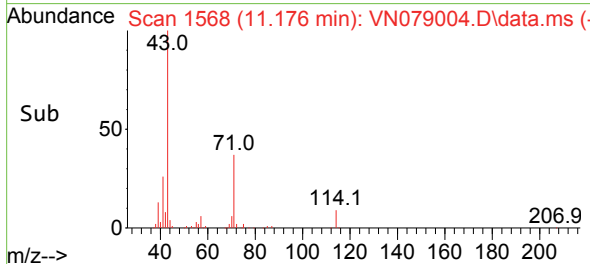
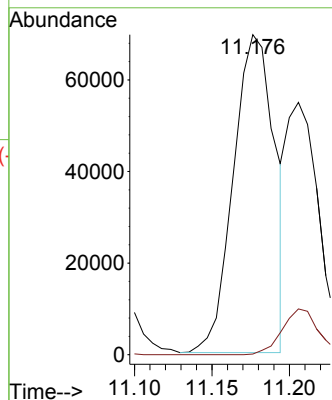
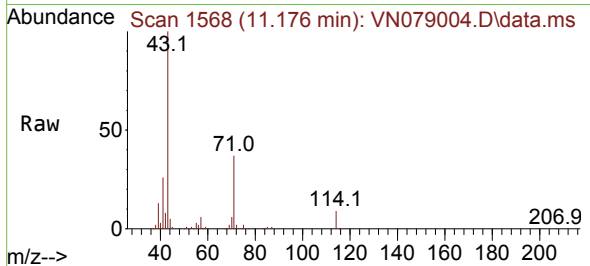




#59
2-Hexanone
Concen: 42.107 ug/l
RT: 11.176 min Scan# 11176
Delta R.T. -0.024 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

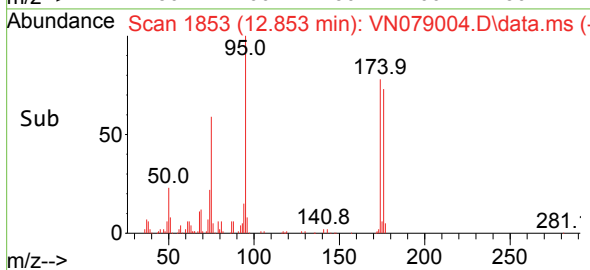
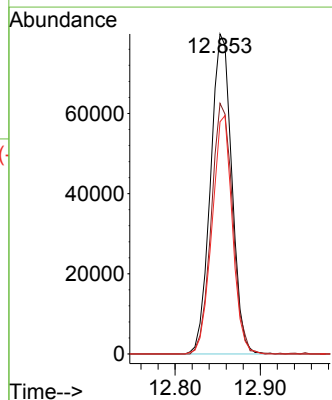
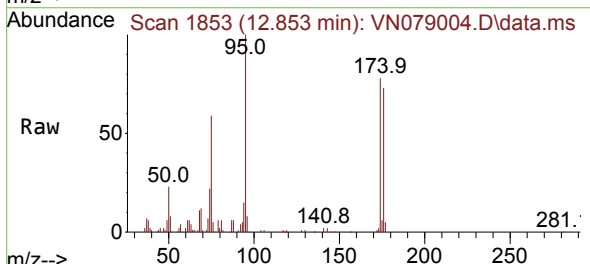
Instrument :
MSVOA_N
ClientSampleId :

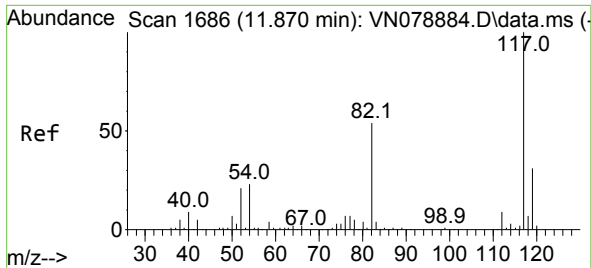
Tgt Ion: 43 Resp: 128503
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 47.791 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

Tgt Ion: 95 Resp: 138514
Ion Ratio Lower Upper
95 100
174 78.6 0.0 143.8
176 71.2 0.0 135.8

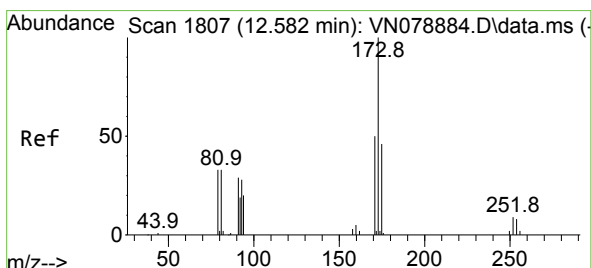
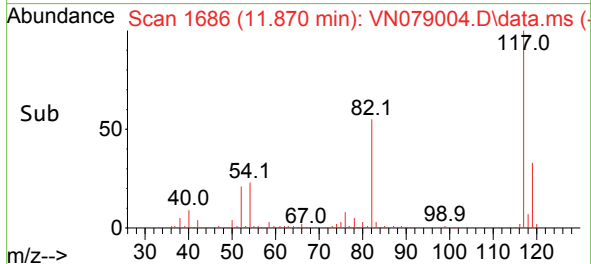
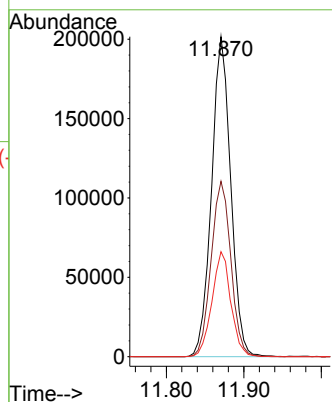
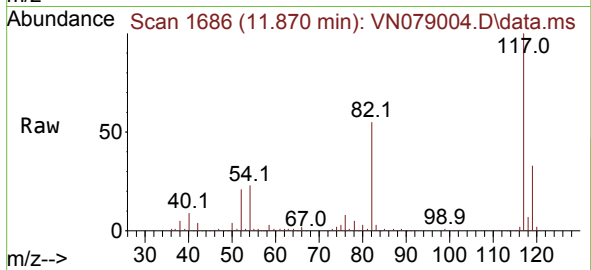




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.001 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

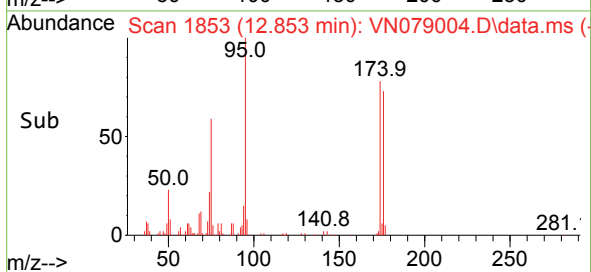
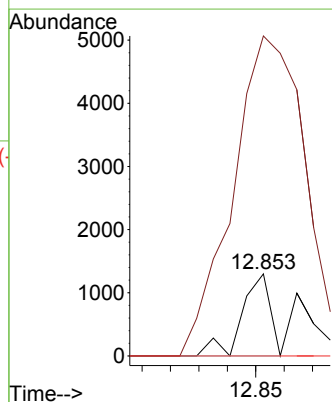
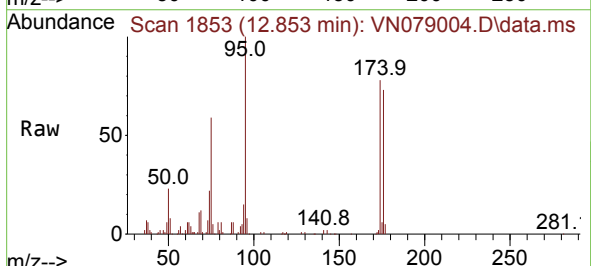
Instrument :
MSVOA_N
ClientSampleId :

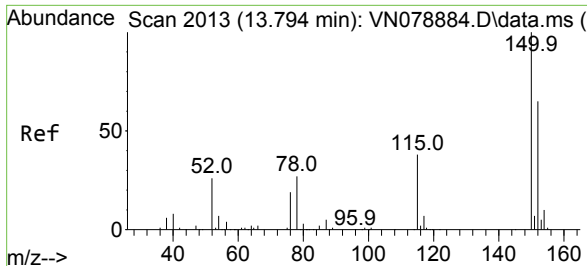
Tgt Ion:117 Resp: 346692
Ion Ratio Lower Upper
117 100
82 54.8 44.0 66.0
119 32.8 25.6 38.4



#71
Bromoform
Concen: 0.441 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN079004.D
Acq: 22 Aug 2023 19:13

Tgt Ion:173 Resp: 894
Ion Ratio Lower Upper
173 100
175 719.9 24.3 73.0#
254 0.0 0.0 0.0

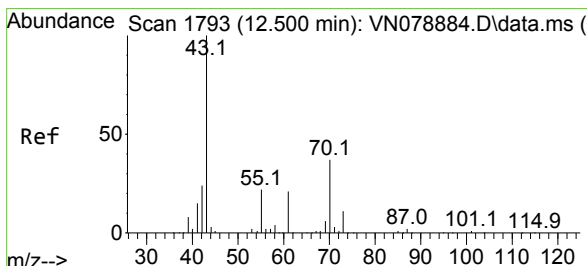
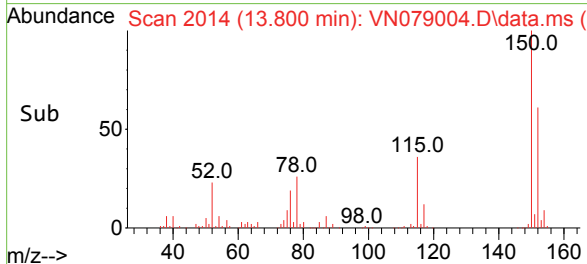
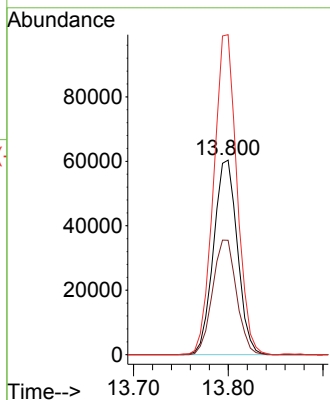
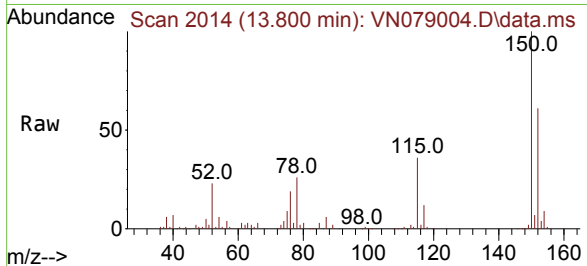




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN079004.D
 Acq: 22 Aug 2023 19:13

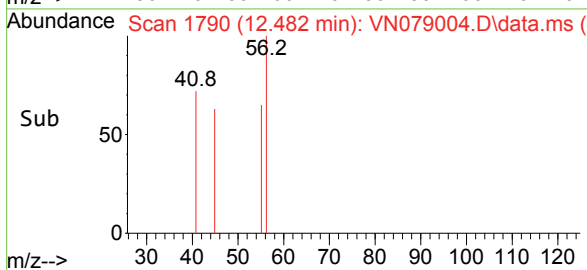
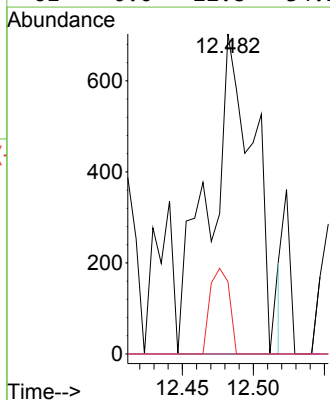
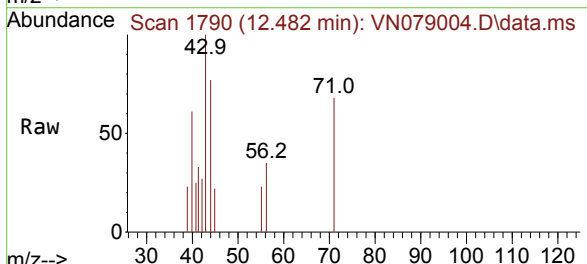
Instrument :
 MSVOA_N
 ClientSampleId :

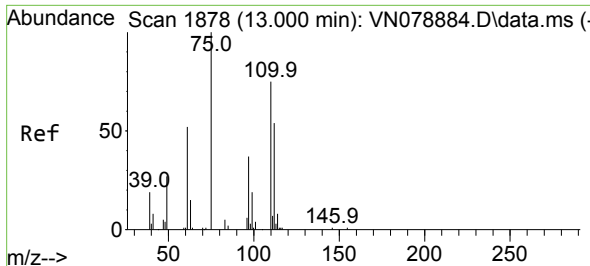
Tgt Ion:152 Resp: 105660
 Ion Ratio Lower Upper
 152 100
 115 59.0 32.3 96.8
 150 161.1 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.352 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.018 min
 Lab File: VN079004.D
 Acq: 22 Aug 2023 19:13

Tgt Ion: 43 Resp: 1566
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 11.3 21.4 32.0#
 61 0.0 22.8 34.2#

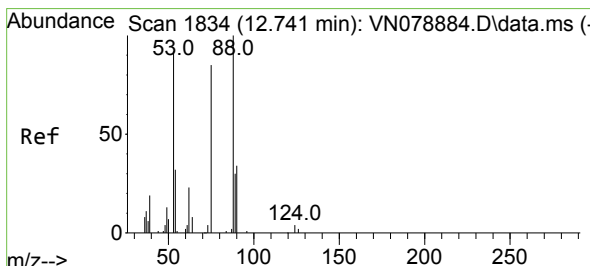
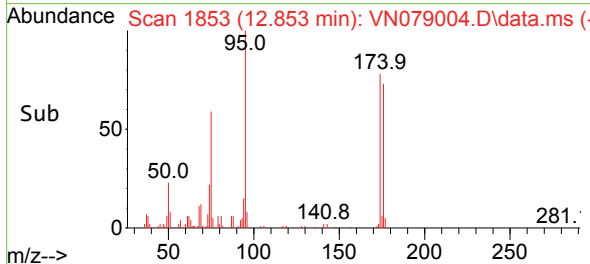
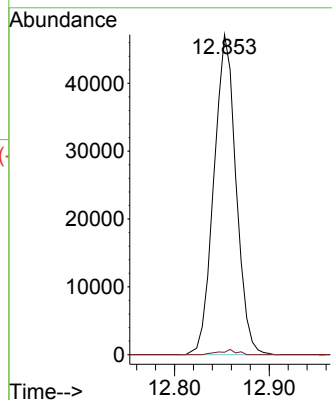
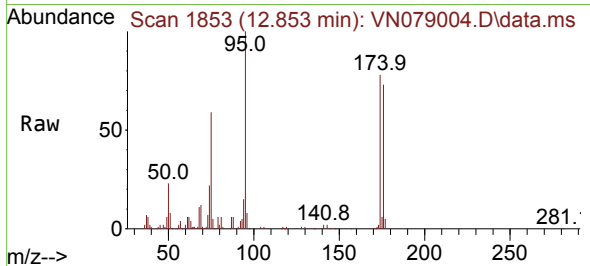




#76
 1,2,3-Trichloropropane
 Concen: 30.179 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN079004.D
 Acq: 22 Aug 2023 19:13

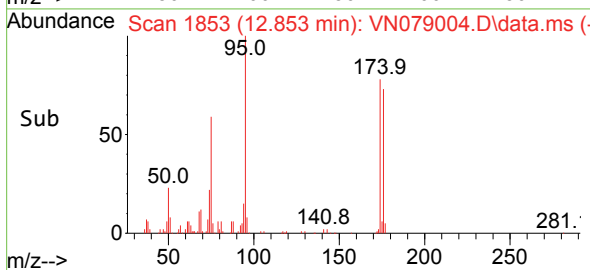
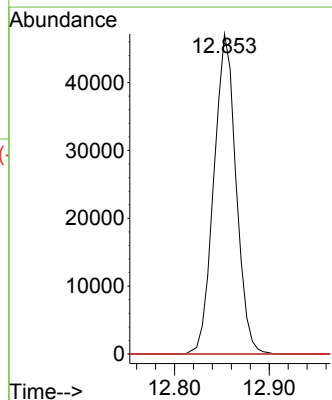
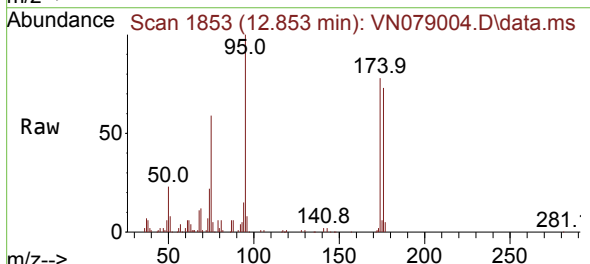
Instrument :
 MSVOA_N
 ClientSampleId :

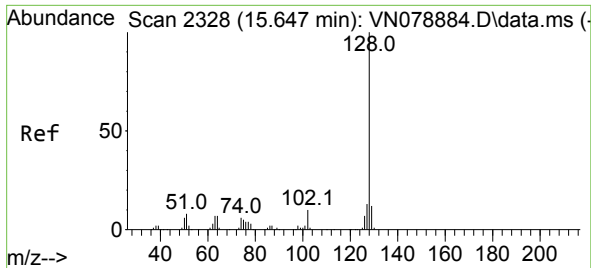
Tgt Ion: 75 Resp: 76832
 Ion Ratio Lower Upper
 75 100
 77 1.2 84.5 253.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.094 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.112 min
 Lab File: VN079004.D
 Acq: 22 Aug 2023 19:13

Tgt Ion: 75 Resp: 76832
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#





#95

Naphthalene

Concen: 2.596 ug/l

RT: 15.629 min Scan# 21

Delta R.T. -0.018 min

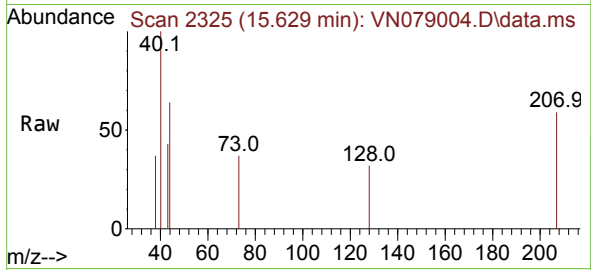
Lab File: VN079004.D

Acq: 22 Aug 2023 19:13

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128 Resp: 109

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#

