

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062023\
 Data File : VN078311.D
 Acq On : 20 Jun 2023 15:49
 Operator : JC\MD
 Sample : 03321-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-22

Quant Time: Jun 21 05:48:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

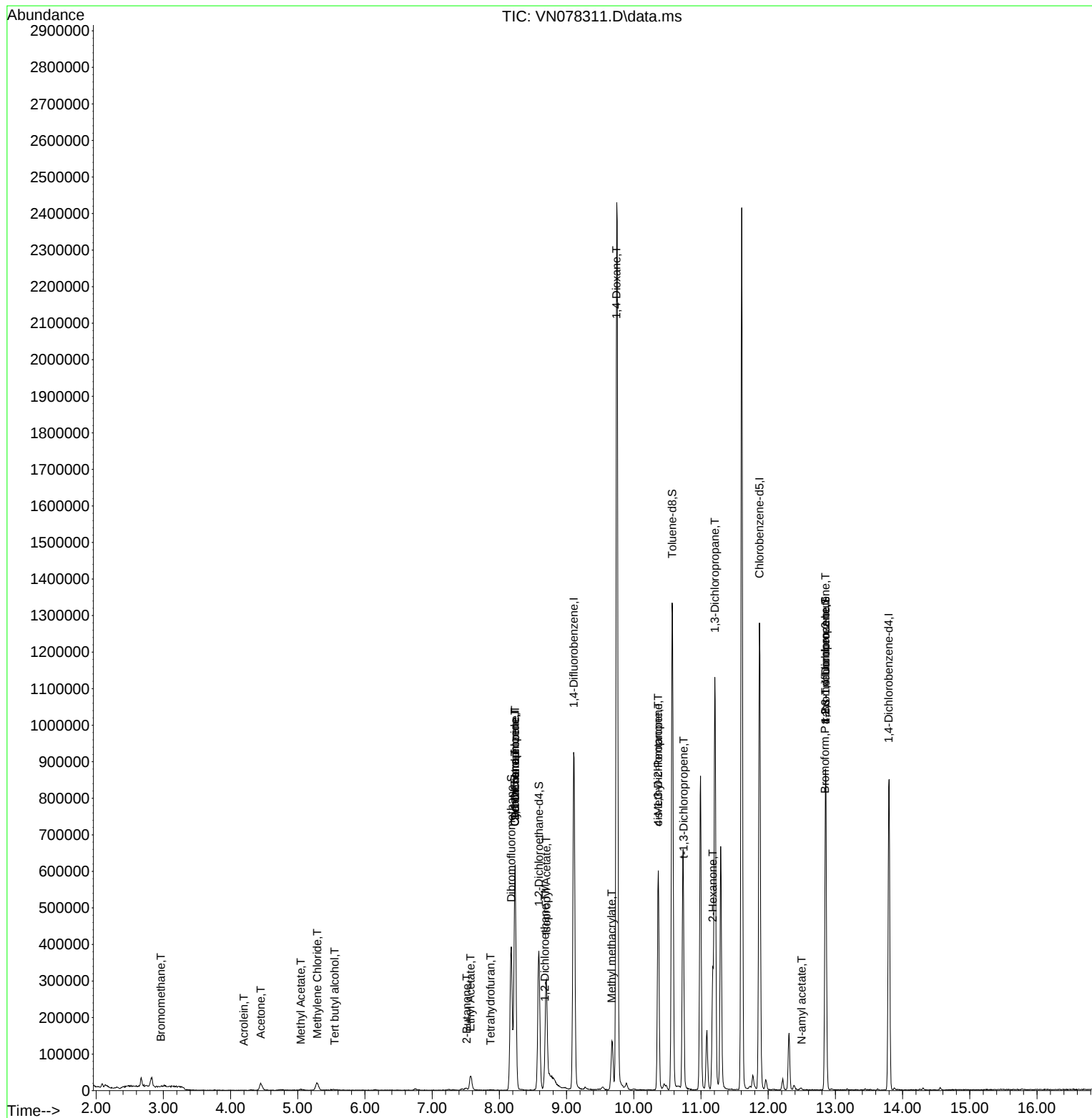
Internal Standards						
1) Pentafluorobenzene	8.235	168	429029	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	820500	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	761417	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	234056	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	313424	54.792	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.580%			
35) Dibromofluoromethane	8.177	113	285091	54.953	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.900%			
50) Toluene-d8	10.571	98	969278	48.464	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.920%			
62) 4-Bromofluorobenzene	12.853	95	309463	49.773	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.540%			
Target Compounds						Qvalue
3) Chloromethane	2.383	50	1221	Below Cal	#	42
5) Bromomethane	2.965	94	1548	0.323	ug/l #	70
11) Tert butyl alcohol	5.547	59	733	0.928	ug/l #	72
13) Acrolein	4.200	56	237	0.272	ug/l #	54
16) Acetone	4.447	43	35559	21.597	ug/l	100
18) Methyl Acetate	5.047	43	4105	0.542	ug/l #	78
20) Methylene Chloride	5.289	84	15390	2.829	ug/l #	84
25) 2-Butanone	7.512	43	8075	3.189	ug/l #	83
29) Tetrahydrofuran	7.871	42	1122	0.663	ug/l #	38
31) Cyclohexane	8.230	56	9701	1.322	ug/l #	1
36) 1,1-Dichloropropene	8.235	75	38282	5.144	ug/l #	48
37) Ethyl Acetate	7.571	43	60226	10.360	ug/l	96
38) Carbon Tetrachloride	8.230	117	47057	5.989	ug/l #	16
42) 1,2-Dichloroethane	8.677	62	2544	0.334	ug/l #	73
43) Isopropyl Acetate	8.700	43	372084	33.468	ug/l #	77
48) Methyl methacrylate	9.671	41	8004	1.716	ug/l #	33
49) 1,4-Dioxane	9.741	88	416	4.242	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	215765	36.855	ug/l #	41
53) t-1,3-Dichloropropene	10.741	75	2445	0.310	ug/l	99
54) cis-1,3-Dichloropropene	10.365	75	112452	12.916	ug/l #	68
57) 1,3-Dichloropropane	11.206	76	13221	1.476	ug/l #	43
59) 2-Hexanone	11.176	43	254268	62.376	ug/l #	19
71) Bromoform	12.847	173	3020	0.780	ug/l #	1
74) N-amyl acetate	12.500	43	2392	0.328	ug/l #	37
75) 1,1,2,2-Tetrachloroethane	12.865	83	230	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	165887	29.980	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	165887	92.109	ug/l #	15

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

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QLast Update : Wed Jun 07 05:05:00 2023
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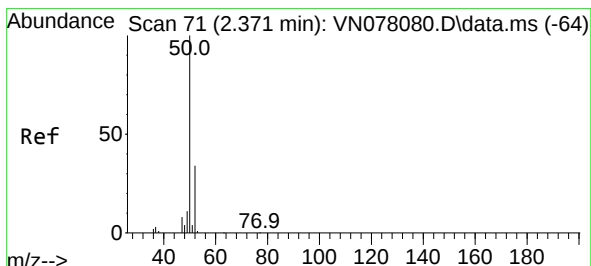
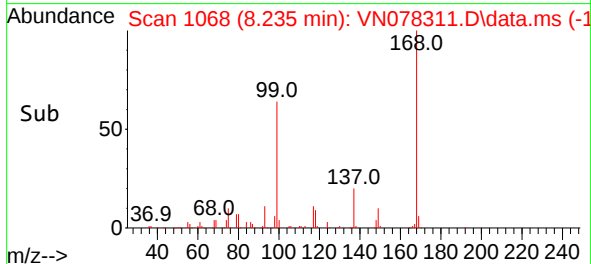
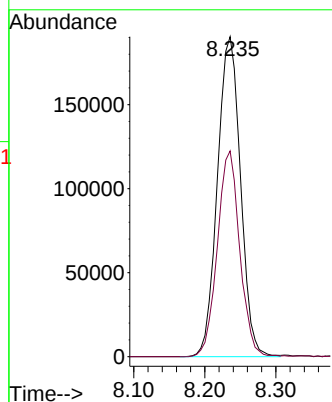
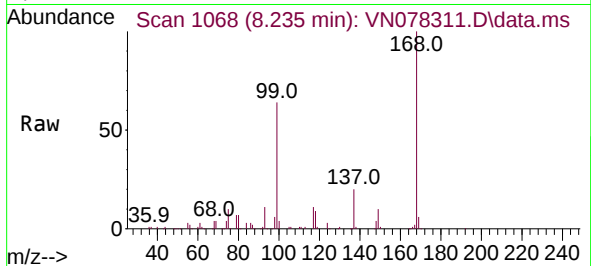




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

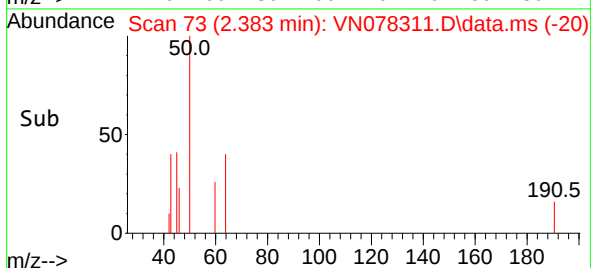
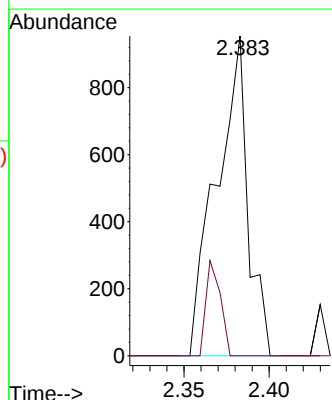
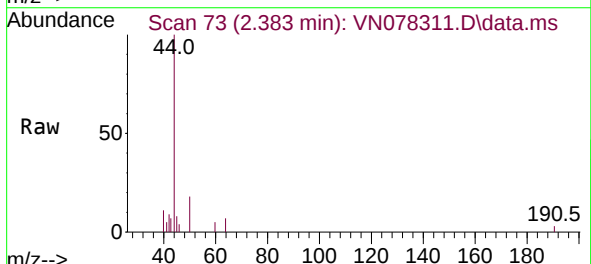
Instrument :
MSVOA_N
ClientSampleId :
WC-22

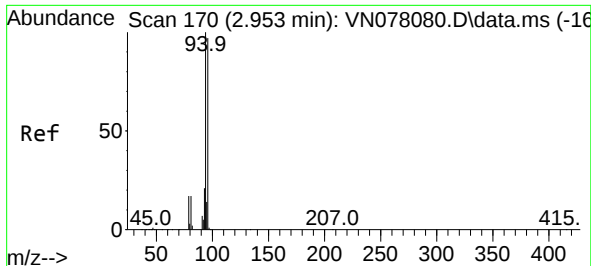
Tgt Ion:168 Resp: 429029
Ion Ratio Lower Upper
168 100
99 64.3 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.383 min Scan# 73
Delta R.T. 0.012 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 50 Resp: 1221
Ion Ratio Lower Upper
50 100
52 0.0 26.5 39.7#

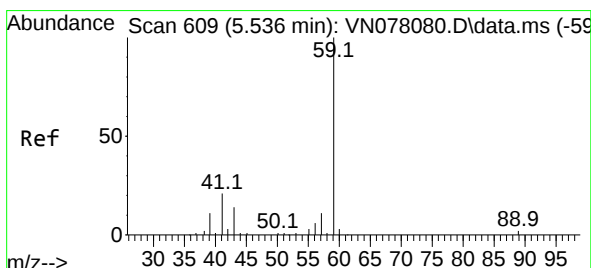
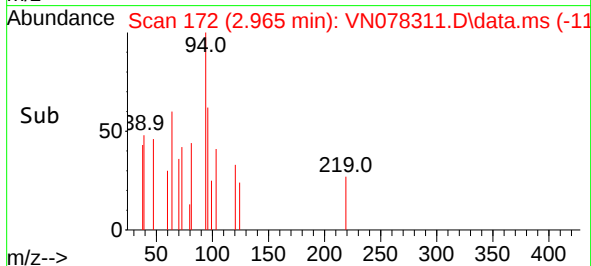
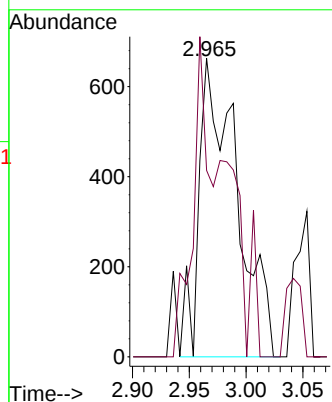
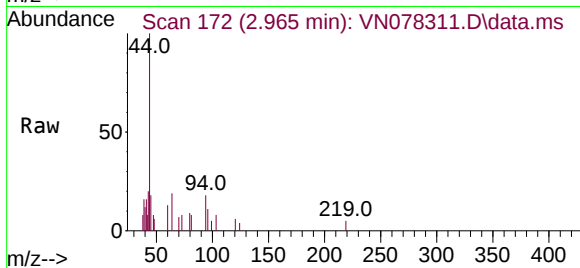




#5
Bromomethane
Concen: 0.323 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

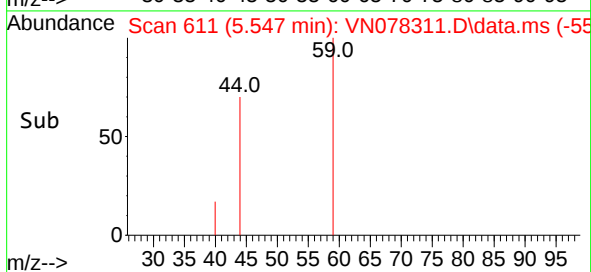
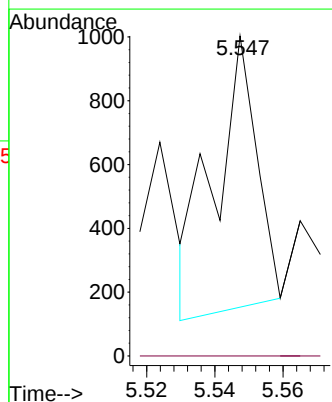
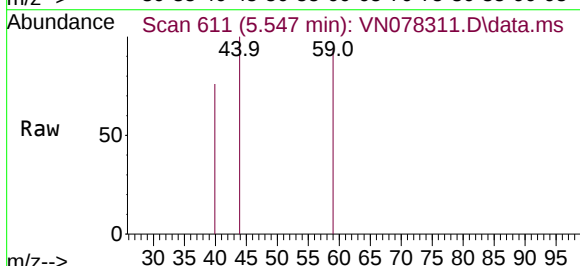
Instrument :
MSVOA_N
ClientSampleId :
WC-22

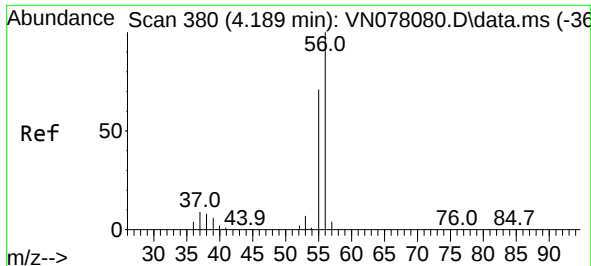
Tgt Ion: 94 Resp: 1548
Ion Ratio Lower Upper
94 100
96 62.4 73.1 109.7#



#11
Tert butyl alcohol
Concen: 0.928 ug/l
RT: 5.547 min Scan# 611
Delta R.T. 0.012 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 59 Resp: 733
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

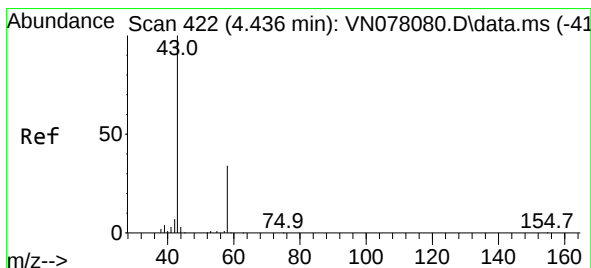
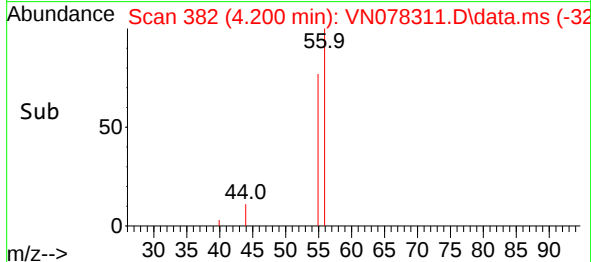
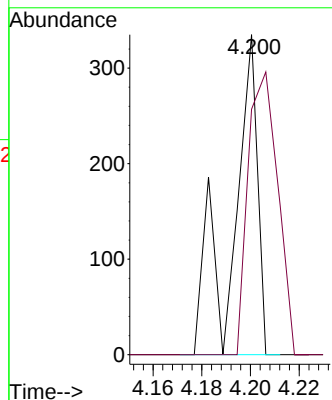
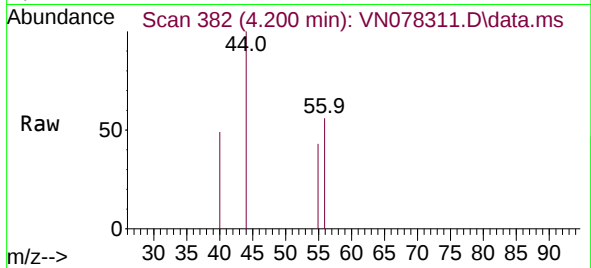




#13
Acrolein
Concen: 0.272 ug/l
RT: 4.200 min Scan# 382
Delta R.T. 0.012 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

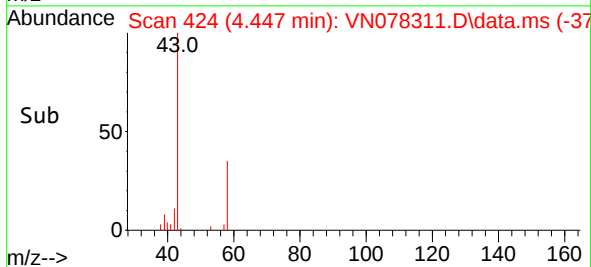
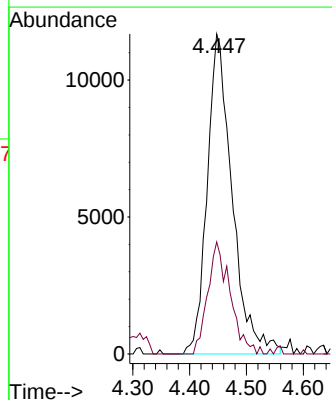
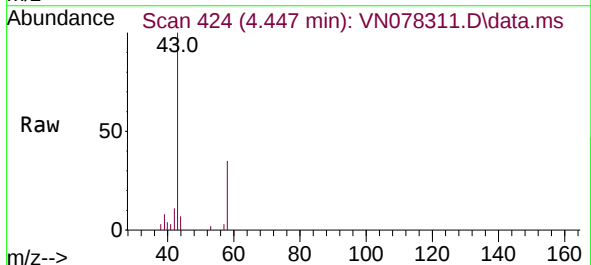
Instrument :
MSVOA_N
ClientSampleId :
WC-22

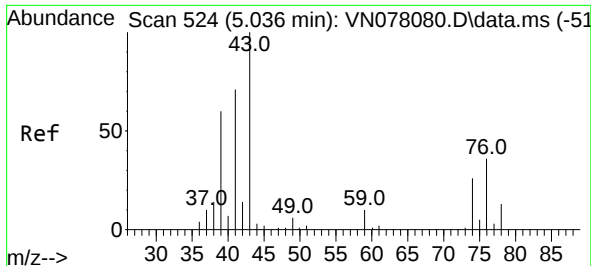
Tgt Ion: 56 Resp: 237
Ion Ratio Lower Upper
56 100
55 105.5 54.5 81.7#



#16
Acetone
Concen: 21.597 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 43 Resp: 35559
Ion Ratio Lower Upper
43 100
58 35.0 28.0 42.0

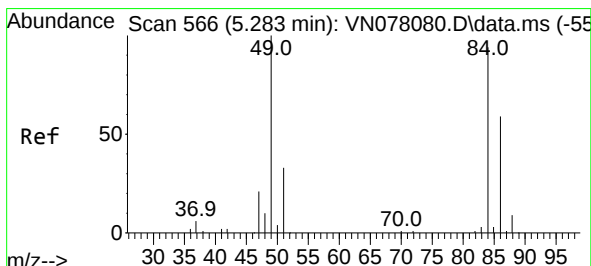
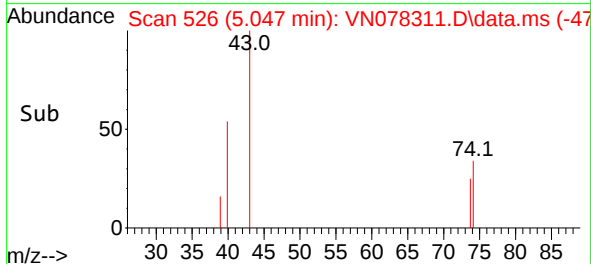
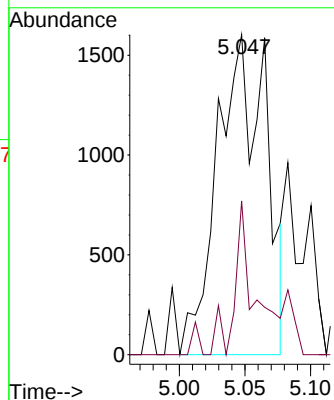
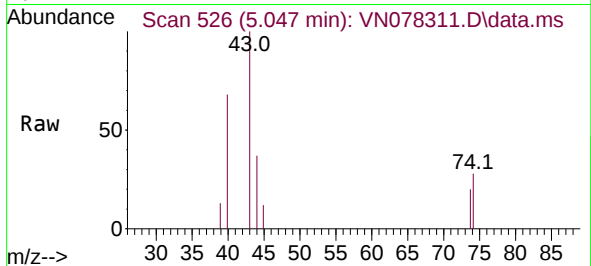




#18
Methyl Acetate
Concen: 0.542 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

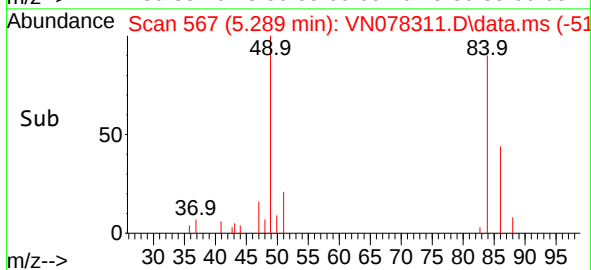
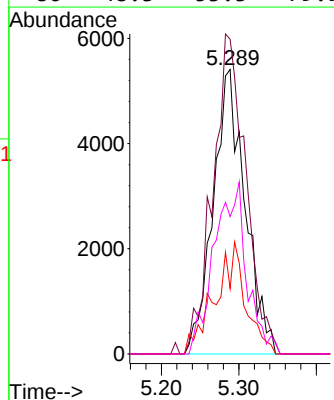
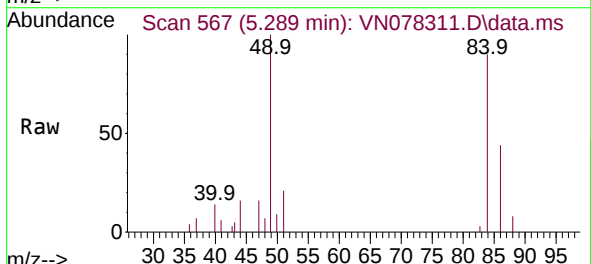
Instrument :
MSVOA_N
ClientSampleId :
WC-22

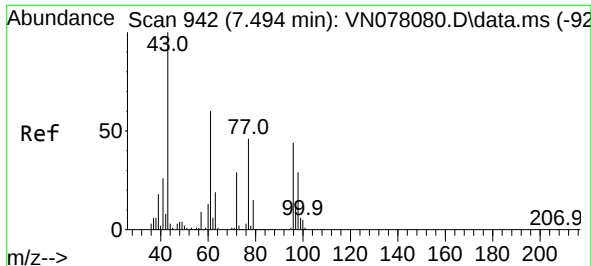
Tgt Ion: 43 Resp: 4105
Ion Ratio Lower Upper
43 100
74 20.3 26.2 39.4#



#20
Methylene Chloride
Concen: 2.829 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 84 Resp: 15390
Ion Ratio Lower Upper
84 100
49 110.6 79.7 119.5
51 23.0 25.2 37.8#
86 48.3 53.3 79.9#

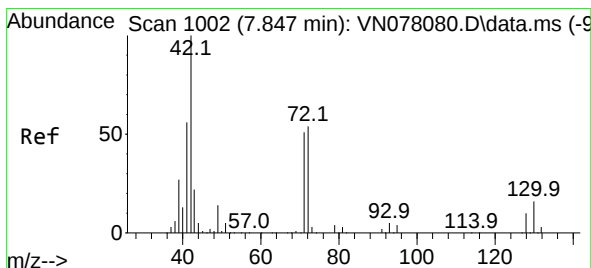
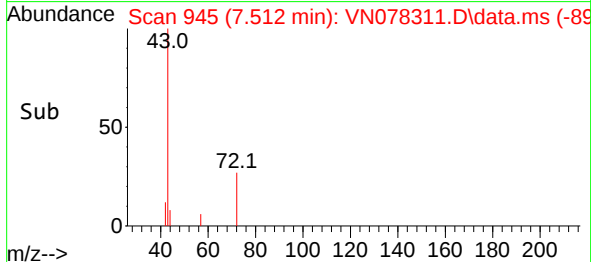
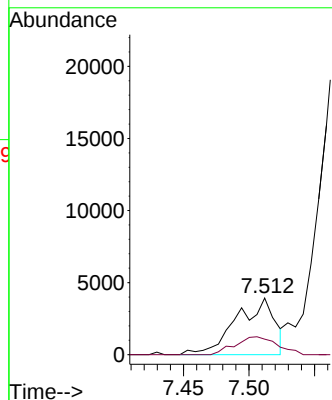
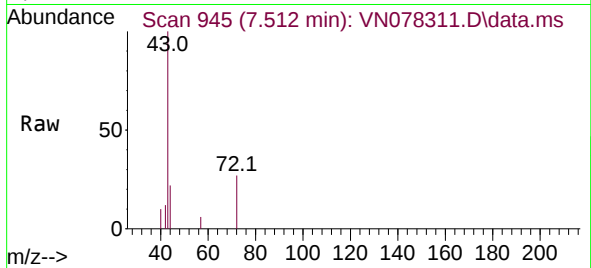




#25
2-Butanone
Concen: 3.189 ug/l
RT: 7.512 min Scan# 942
Delta R.T. 0.018 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

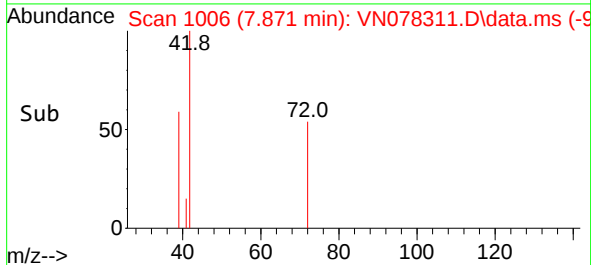
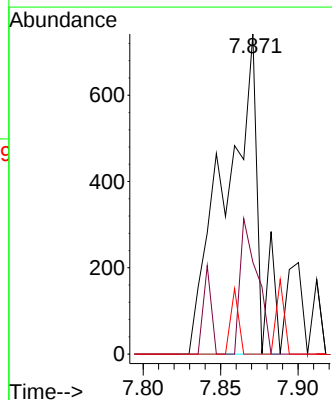
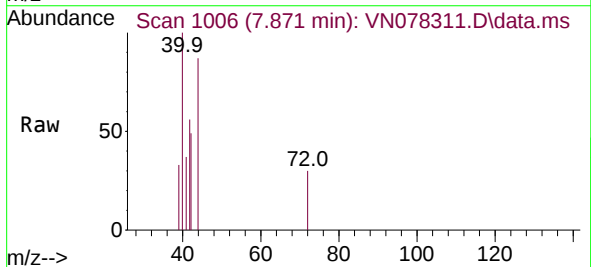
Instrument :
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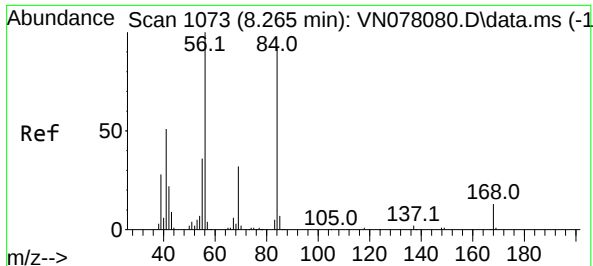
Tgt Ion: 43 Resp: 8075
Ion Ratio Lower Upper
43 100
72 27.4 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.663 ug/l
RT: 7.871 min Scan# 1006
Delta R.T. 0.024 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 42 Resp: 1122
Ion Ratio Lower Upper
42 100
72 21.5 49.8 74.6#
71 4.8 47.4 71.2#

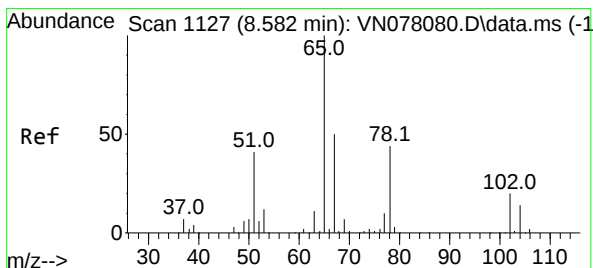
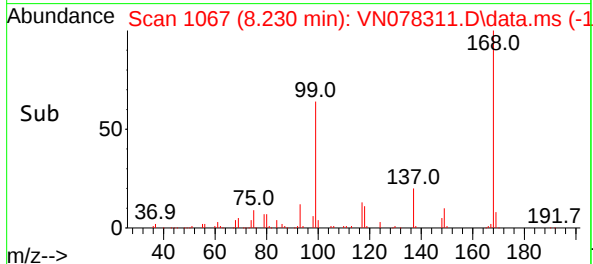
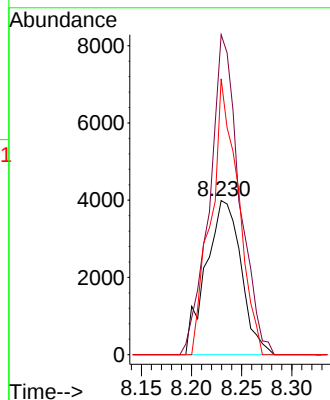
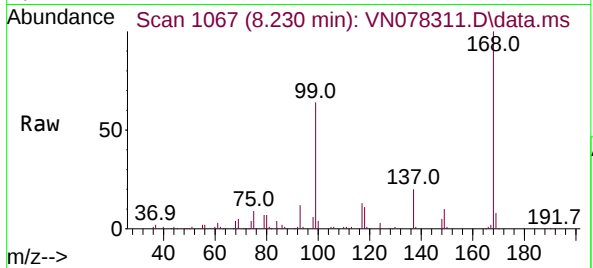




#31
Cyclohexane
Concen: 1.322 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

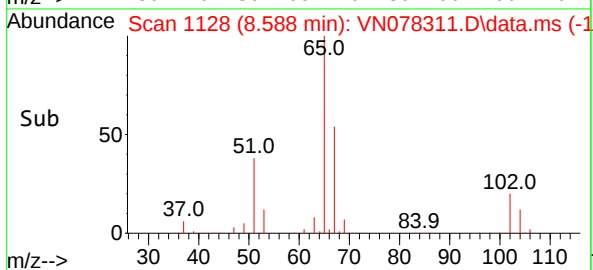
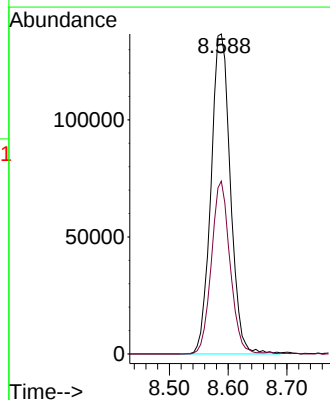
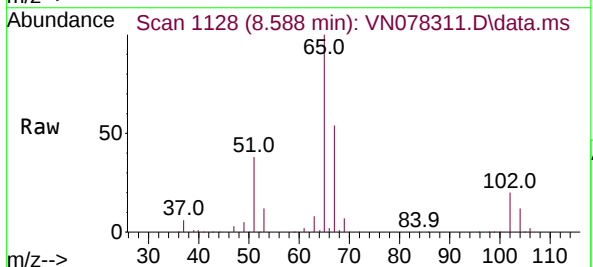
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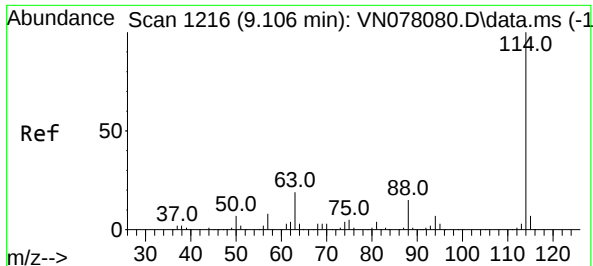
Tgt Ion: 56 Resp: 9701
Ion Ratio Lower Upper
56 100
69 207.8 26.8 40.2#
84 179.1 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 54.792 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 65 Resp: 313424
Ion Ratio Lower Upper
65 100
67 51.8 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078311.D

Acq: 20 Jun 2023 15:49

Instrument :

MSVOA_N

ClientSampleId :

WC-22

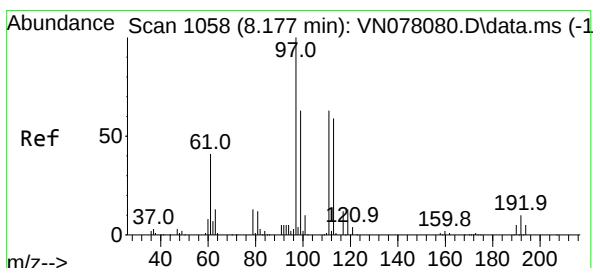
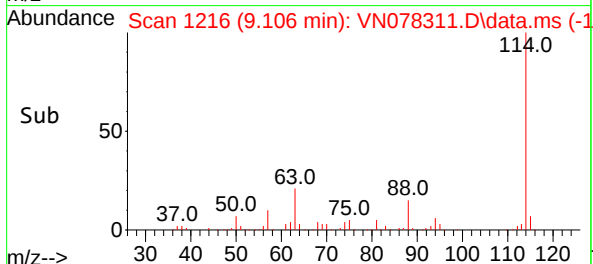
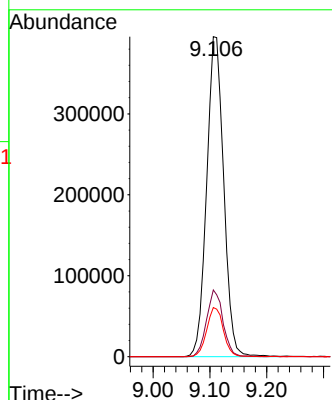
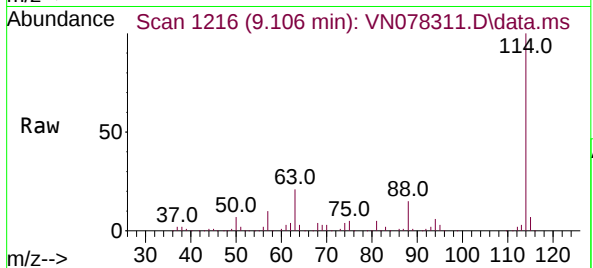
Tgt Ion:114 Resp: 820500

Ion Ratio Lower Upper

114 100

63 20.9 0.0 36.4

88 15.4 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.953 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078311.D

Acq: 20 Jun 2023 15:49

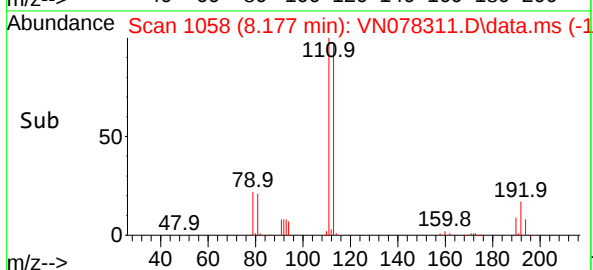
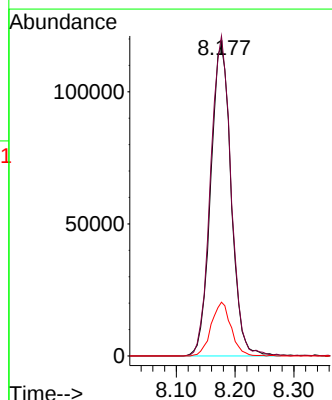
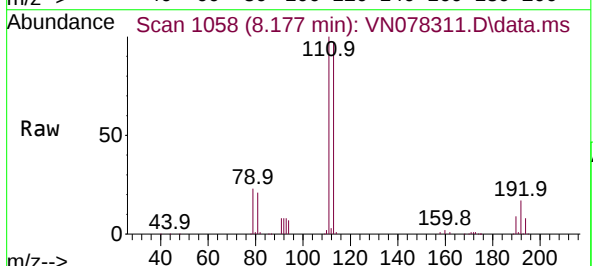
Tgt Ion:113 Resp: 285091

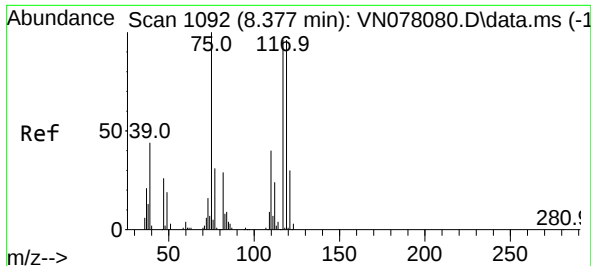
Ion Ratio Lower Upper

113 100

111 103.1 82.6 123.8

192 16.7 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.144 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN078311.D

Acq: 20 Jun 2023 15:49

Instrument :

MSVOA_N

ClientSampleId :

WC-22

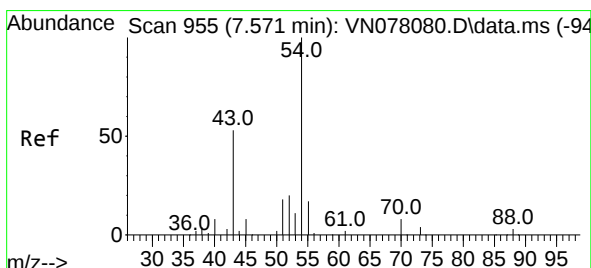
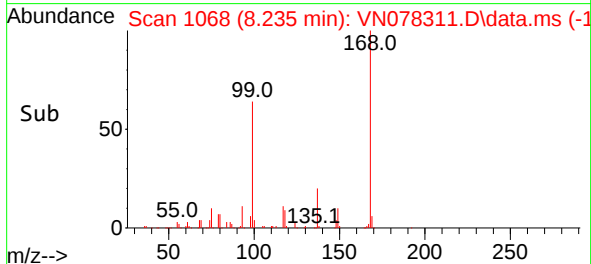
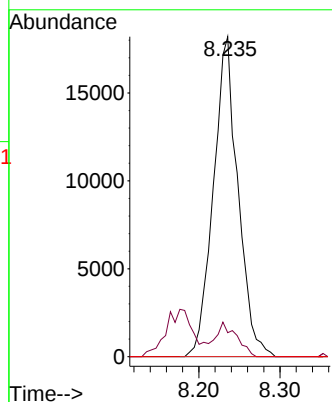
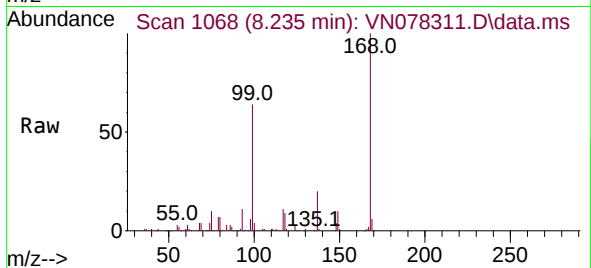
Tgt Ion: 75 Resp: 38282

Ion Ratio Lower Upper

75 100

110 8.9 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 10.360 ug/l

RT: 7.571 min Scan# 955

Delta R.T. 0.000 min

Lab File: VN078311.D

Acq: 20 Jun 2023 15:49

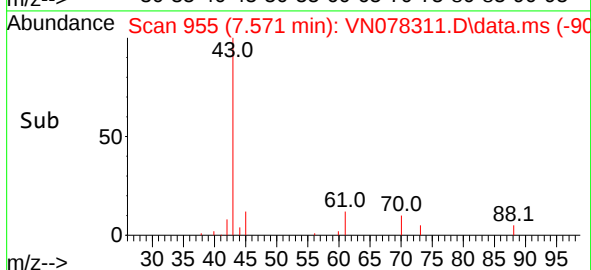
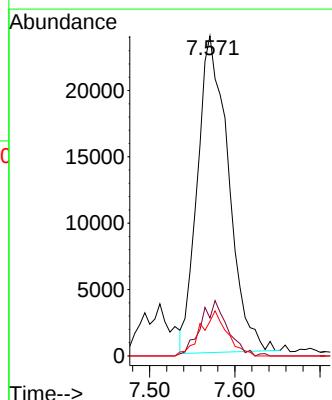
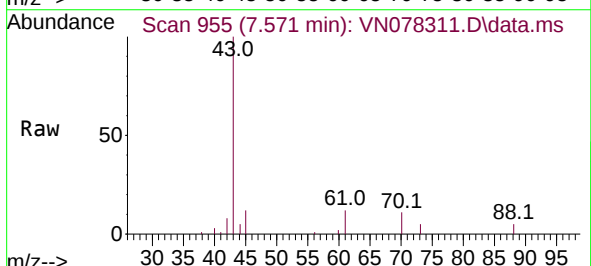
Tgt Ion: 43 Resp: 60226

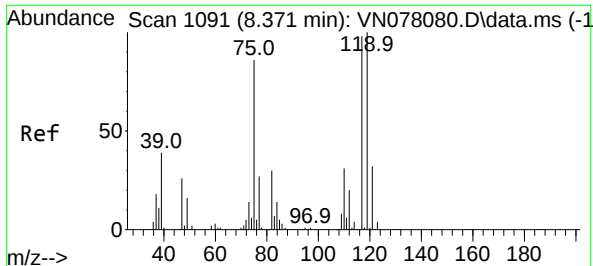
Ion Ratio Lower Upper

43 100

61 15.4 13.2 19.8

70 12.2 11.3 16.9

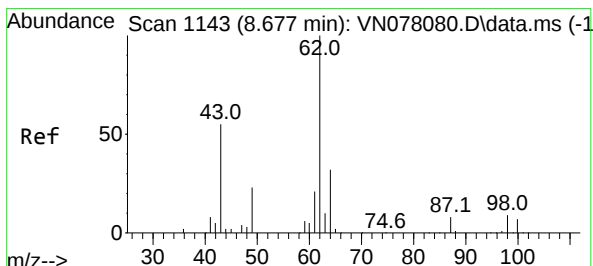
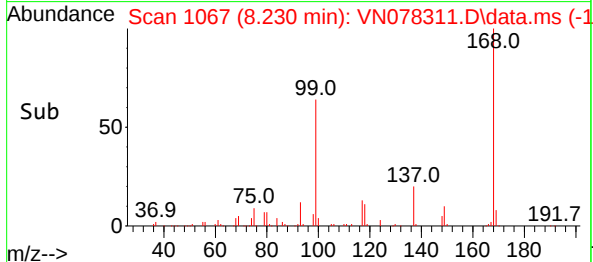
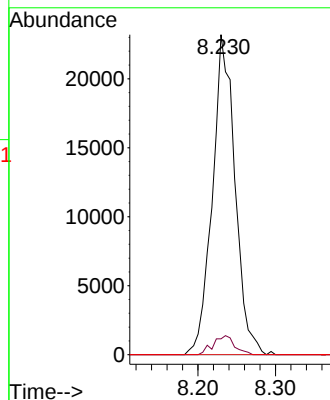
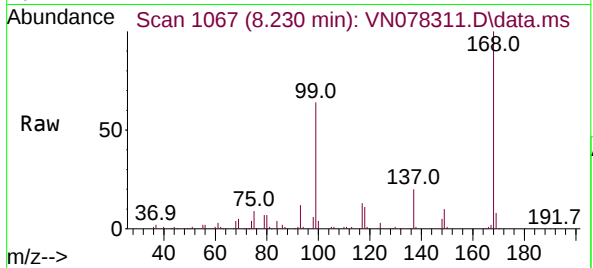




#38
Carbon Tetrachloride
Concen: 5.989 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

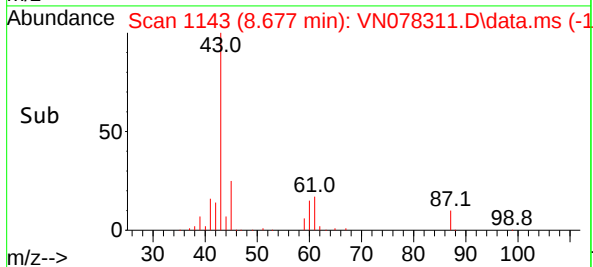
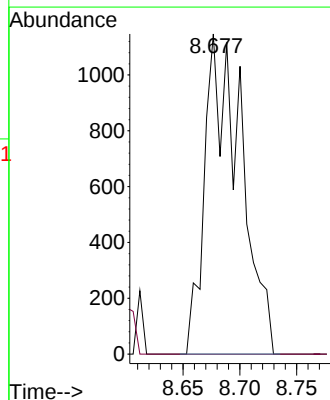
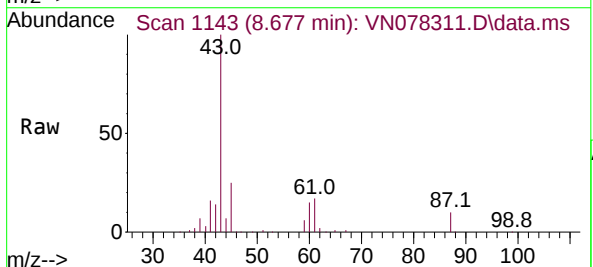
Instrument :
MSVOA_N
ClientSampleId :
WC-22

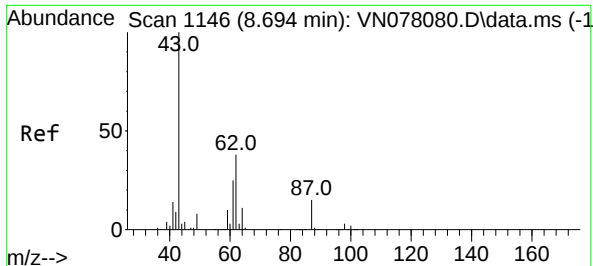
Tgt Ion:117 Resp: 47057
Ion Ratio Lower Upper
117 100
119 5.0 77.3 115.9#
121 0.0 23.3 34.9#



#42
1,2-Dichloroethane
Concen: 0.334 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 62 Resp: 2544
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8

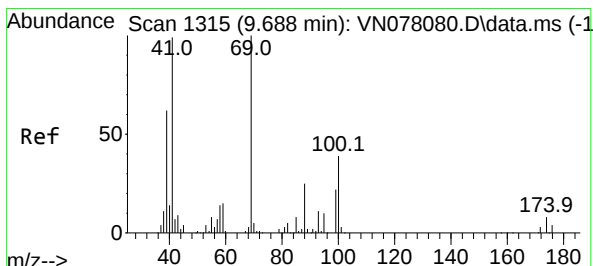
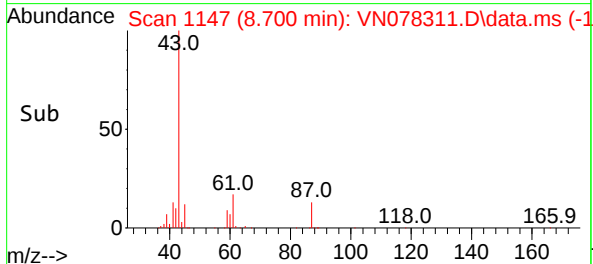
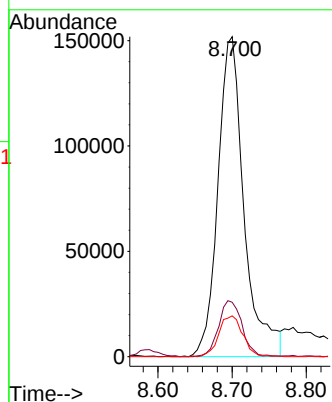
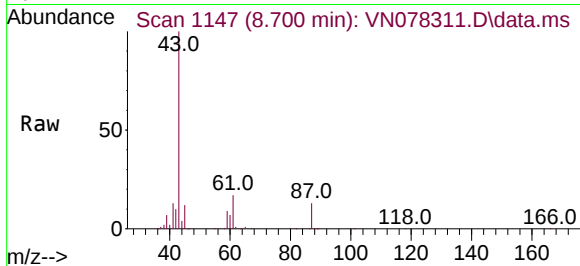




#43
Isopropyl Acetate
Concen: 33.468 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

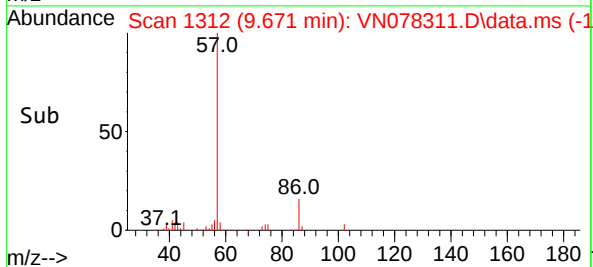
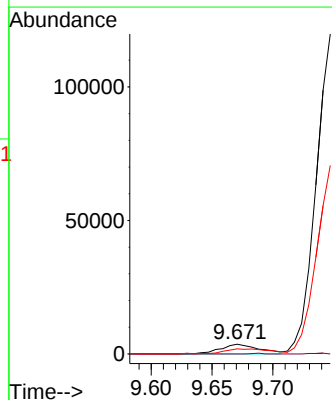
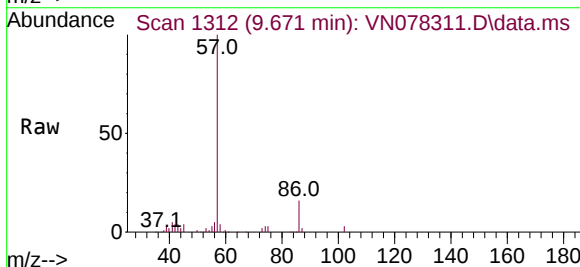
Instrument :
MSVOA_N
ClientSampleId :
WC-22

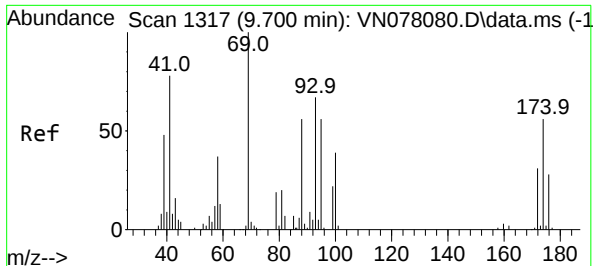
Tgt Ion: 43 Resp: 372084
Ion Ratio Lower Upper
43 100
61 15.8 24.7 37.1#
87 11.7 14.6 21.8#



#48
Methyl methacrylate
Concen: 1.716 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 41 Resp: 8004
Ion Ratio Lower Upper
41 100
69 2.1 90.4 135.6#
39 63.6 54.6 81.8





#49

1,4-Dioxane

Concen: 4.242 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.041 min

Lab File: VN078311.D

Acq: 20 Jun 2023 15:49

Instrument :

MSVOA_N

ClientSampleId :

WC-22

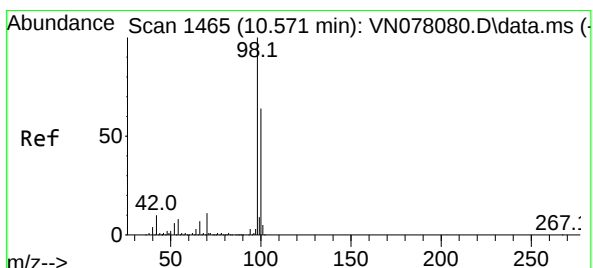
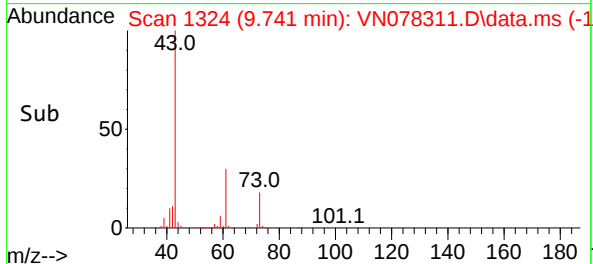
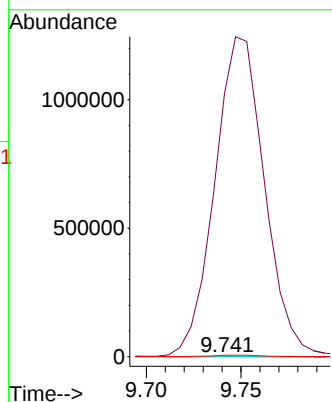
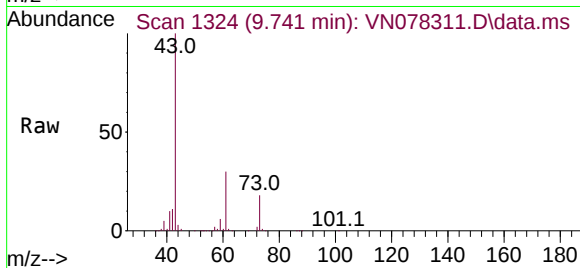
Tgt Ion: 88 Resp: 416

Ion Ratio Lower Upper

88 100

43 551017.5 17.0 25.6#

58 2774.5 47.0 70.4#



#50

Toluene-d8

Concen: 48.464 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078311.D

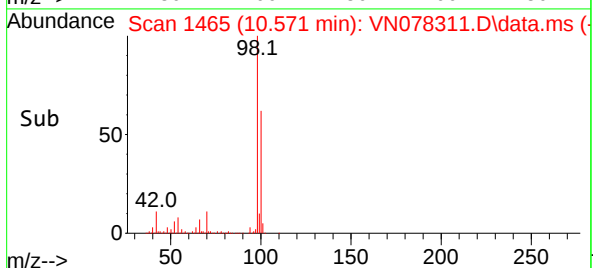
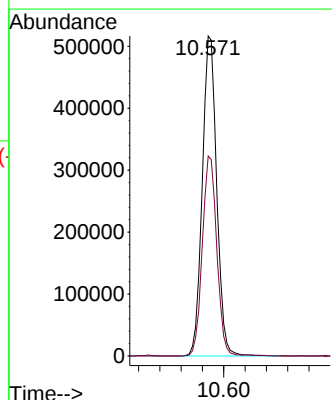
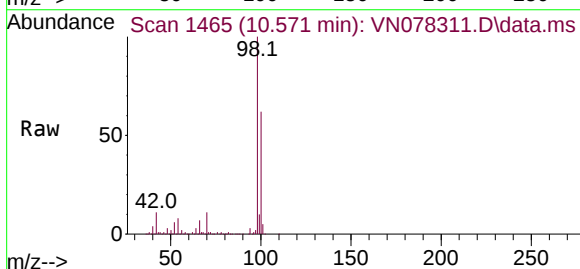
Acq: 20 Jun 2023 15:49

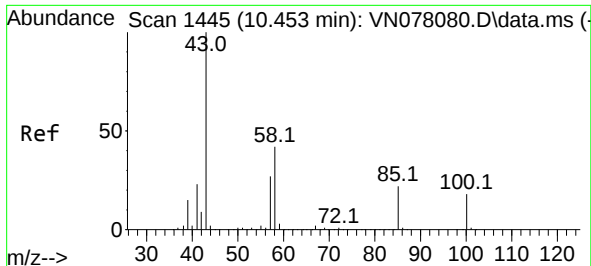
Tgt Ion: 98 Resp: 969278

Ion Ratio Lower Upper

98 100

100 62.9 52.0 78.0

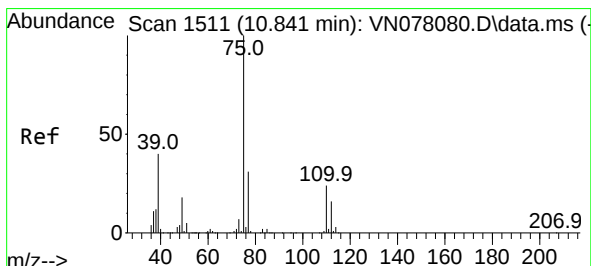
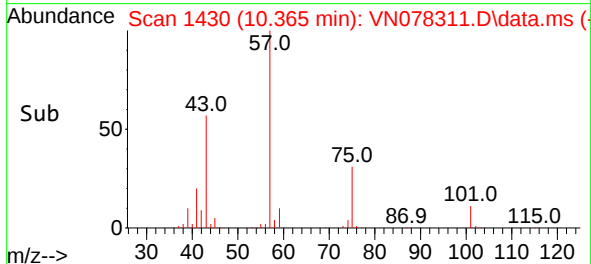
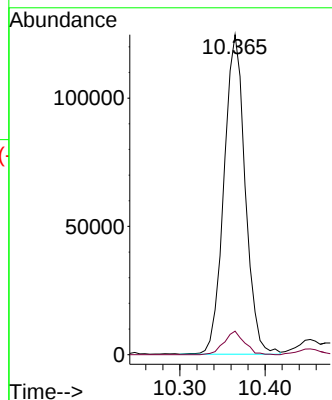
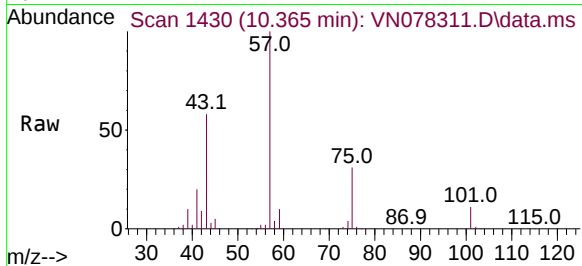




#51
4-Methyl-2-Pentanone
Concen: 36.855 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.088 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

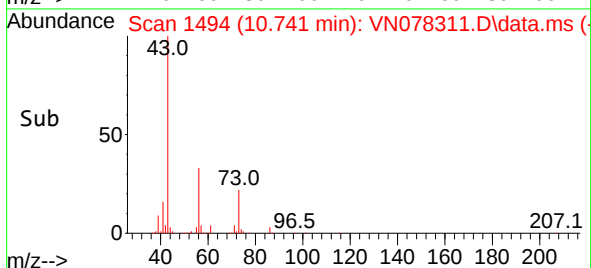
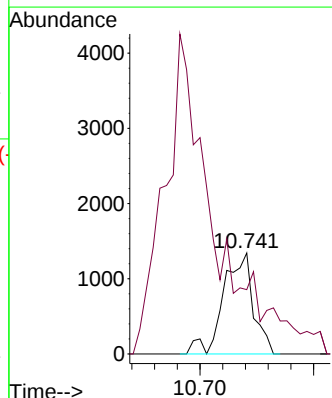
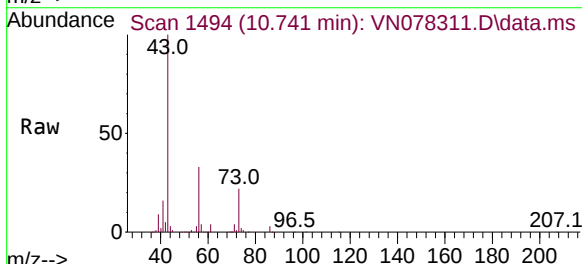
Instrument :
MSVOA_N
ClientSampleId :
WC-22

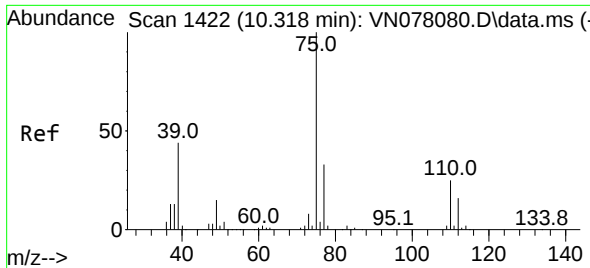
Tgt Ion: 43 Resp: 215765
Ion Ratio Lower Upper
43 100
58 7.1 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.310 ug/l
RT: 10.741 min Scan# 1494
Delta R.T. -0.100 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 75 Resp: 2445
Ion Ratio Lower Upper
75 100
77 31.1 25.4 38.0

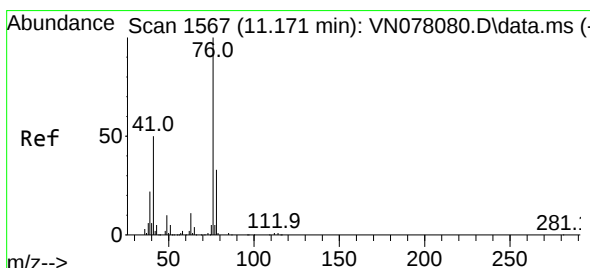
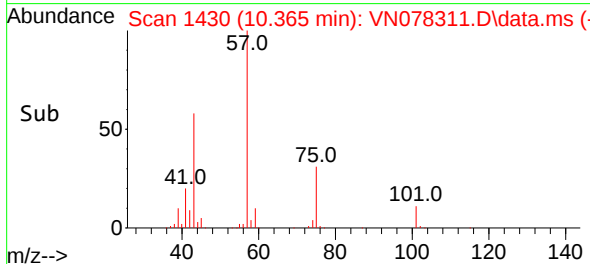
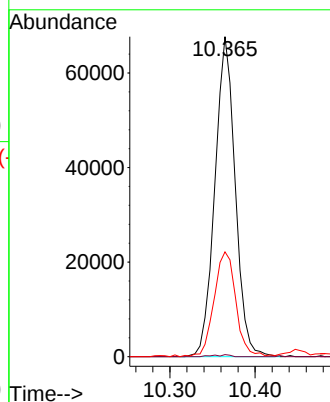
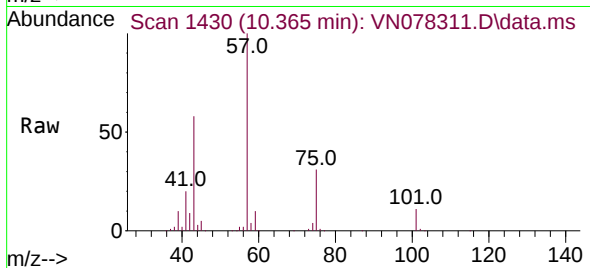




#54
cis-1,3-Dichloropropene
Concen: 12.916 ug/l
RT: 10.365 min Scan# 1422
Delta R.T. 0.047 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

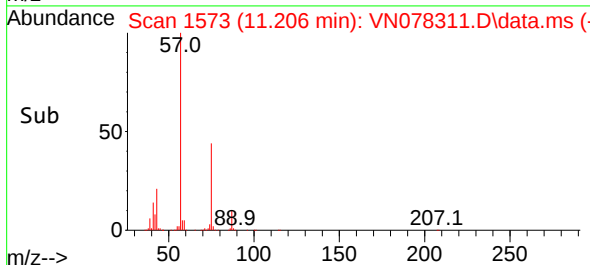
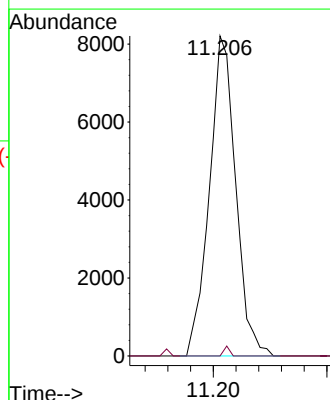
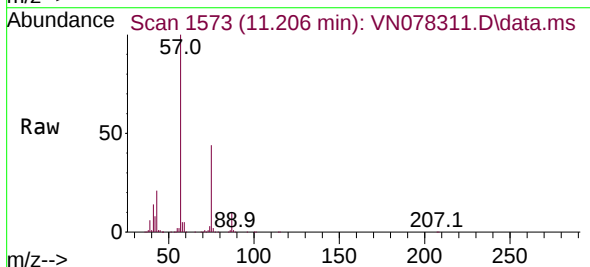
Instrument :
MSVOA_N
ClientSampleId :
WC-22

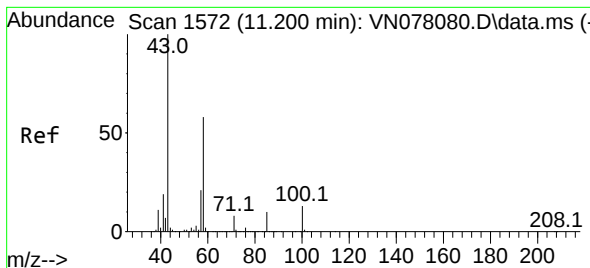
Tgt Ion: 75 Resp: 112452
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 32.8 31.6 47.4



#57
1,3-Dichloropropane
Concen: 1.476 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.035 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 76 Resp: 13221
Ion Ratio Lower Upper
76 100
78 0.7 26.1 39.1#

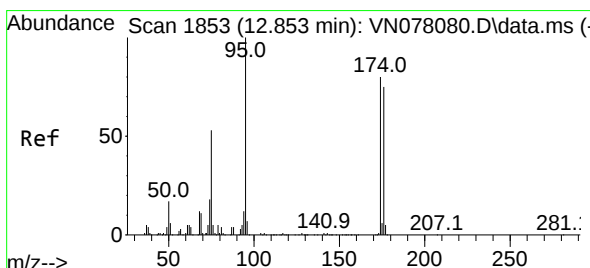
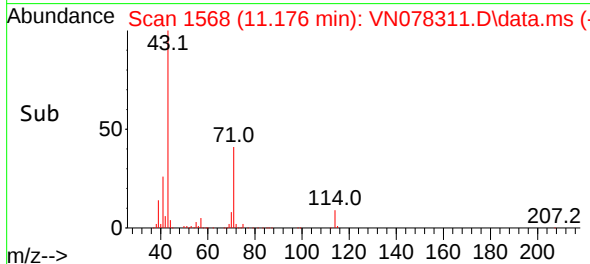
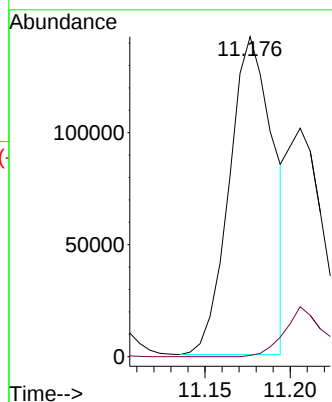
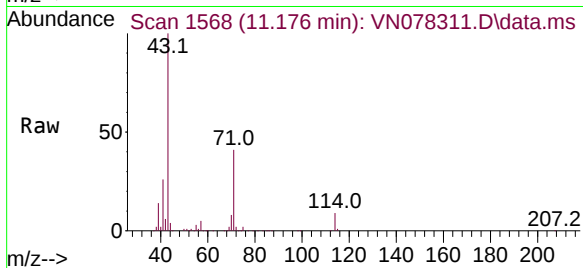




#59
2-Hexanone
Concen: 62.376 ug/l
RT: 11.176 min Scan# 1114
Delta R.T. -0.024 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

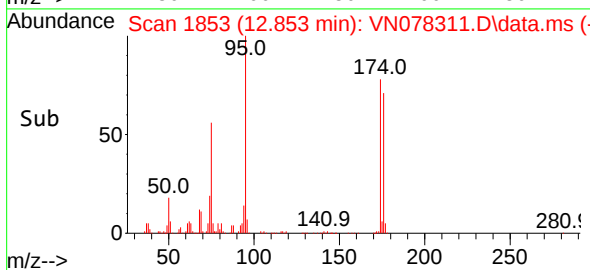
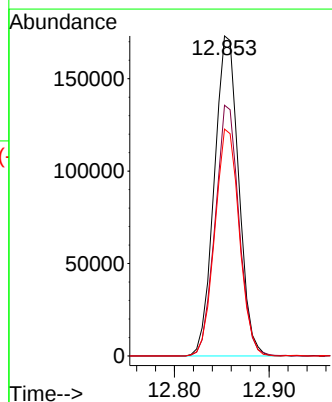
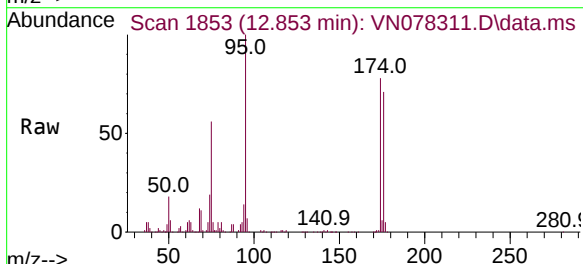
Instrument :
MSVOA_N
ClientSampleId :
WC-22

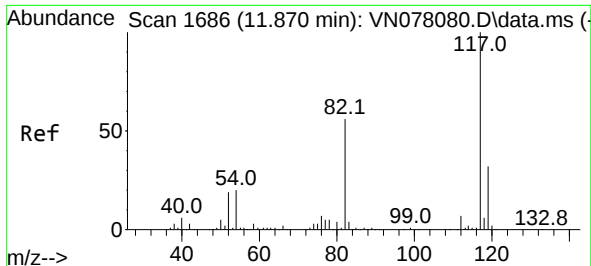
Tgt Ion: 43 Resp: 254268
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 49.773 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 95 Resp: 309463
Ion Ratio Lower Upper
95 100
174 76.7 0.0 143.8
176 71.2 0.0 135.8

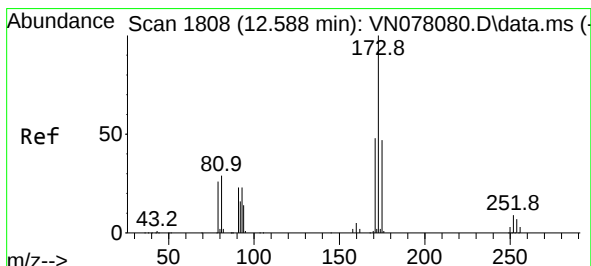
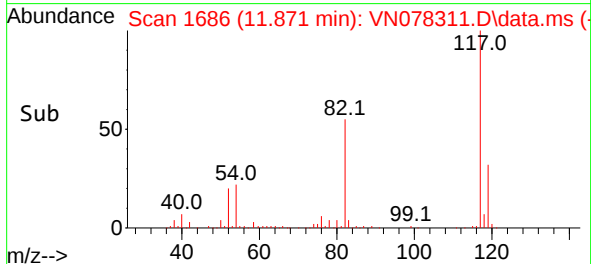
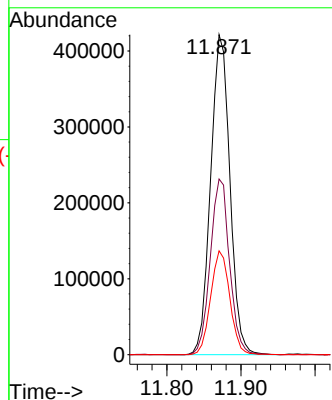
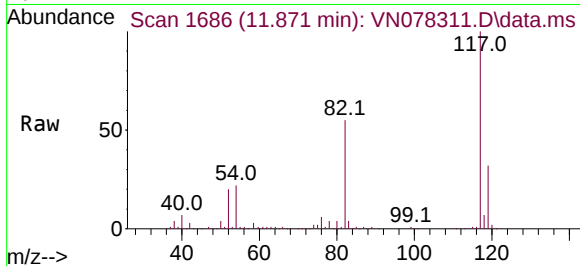




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

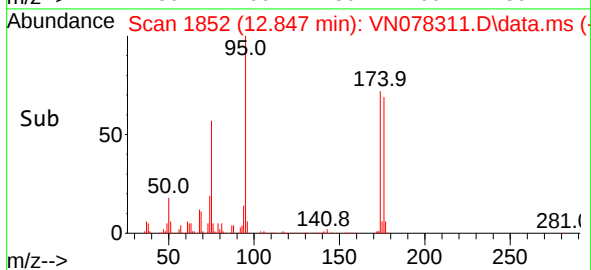
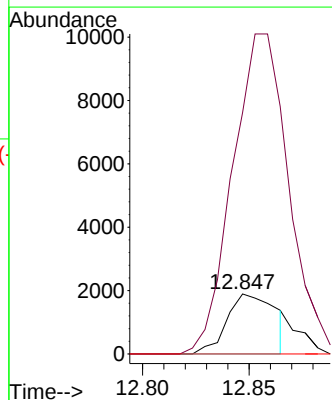
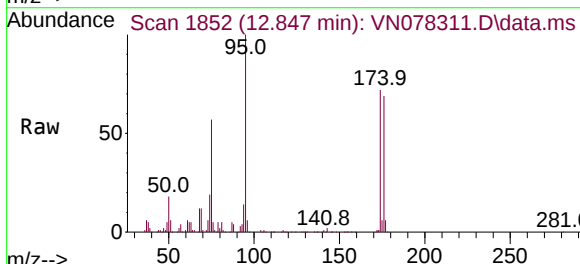
Instrument :
MSVOA_N
ClientSampleId :
WC-22

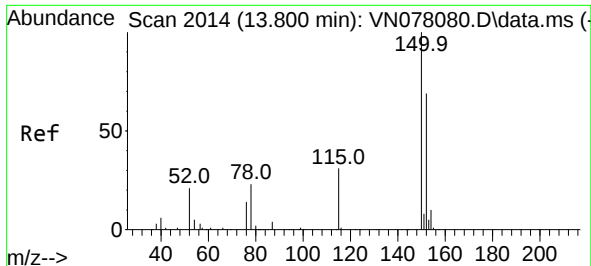
Tgt Ion:117 Resp: 761417
Ion Ratio Lower Upper
117 100
82 54.9 44.0 66.0
119 32.5 25.6 38.4



#71
Bromoform
Concen: 0.780 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.259 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion:173 Resp: 3020
Ion Ratio Lower Upper
173 100
175 519.6 24.3 73.0#
254 0.0 0.0 0.0

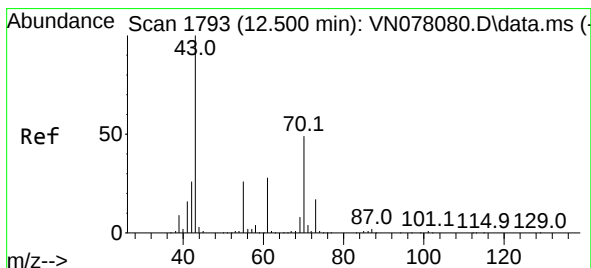
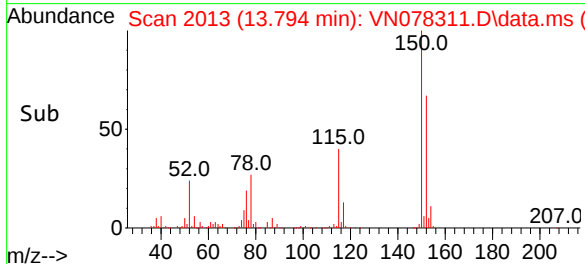
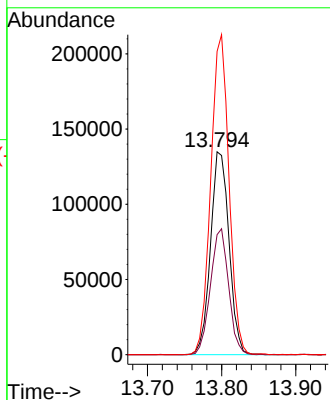
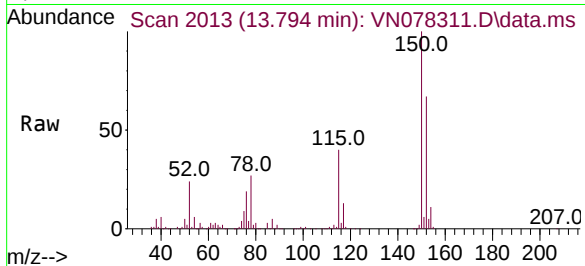




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2014
Delta R.T. -0.006 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

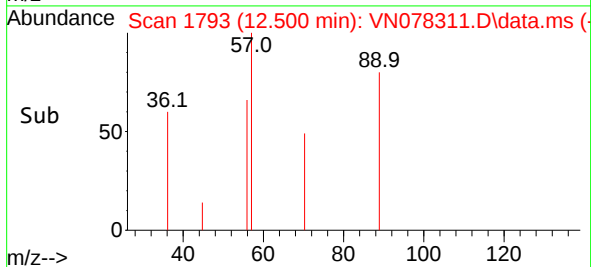
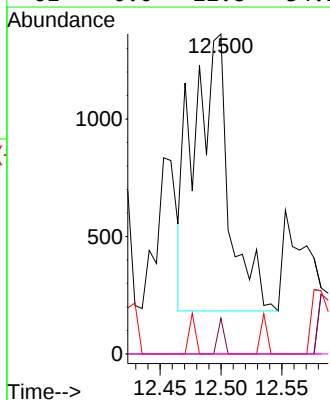
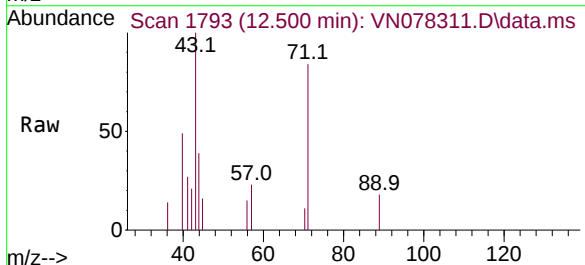
Instrument :
MSVOA_N
ClientSampleId :
WC-22

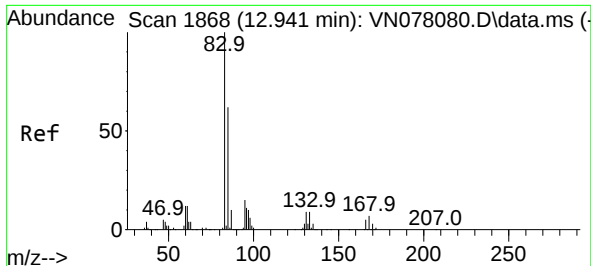
Tgt Ion:152 Resp: 234056
Ion Ratio Lower Upper
152 100
115 60.8 32.3 96.8
150 155.2 0.0 355.8



#74
N-ethyl acetate
Concen: 0.328 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 43 Resp: 2392
Ion Ratio Lower Upper
43 100
70 2.3 43.4 65.2#
55 0.0 21.4 32.0#
61 0.0 22.8 34.2#

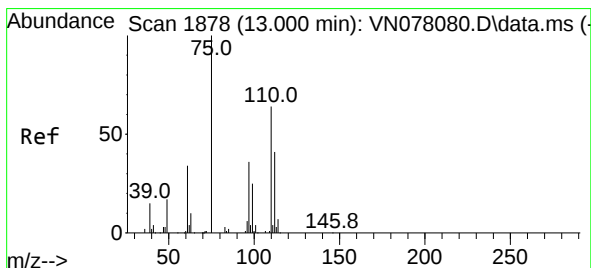
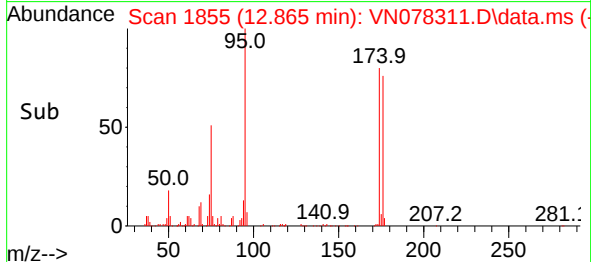
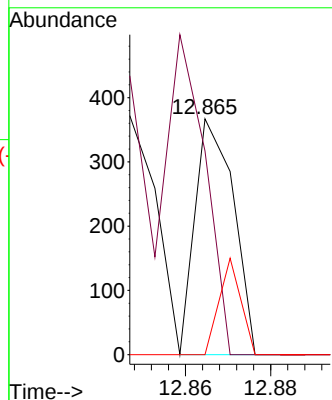
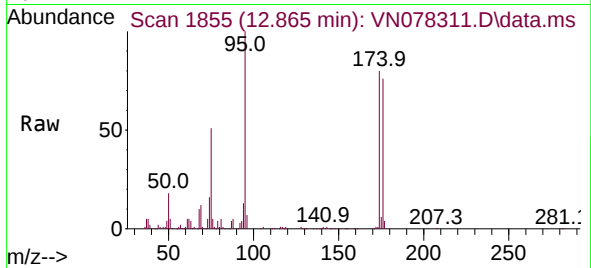




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.865 min Scan# 1855
Delta R.T. -0.076 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

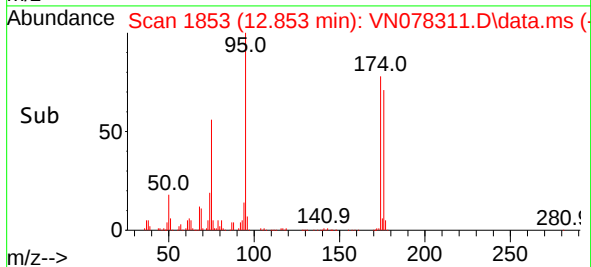
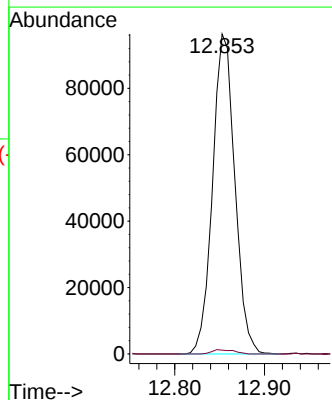
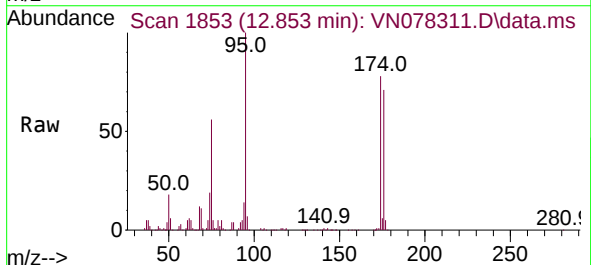
Instrument :
MSVOA_N
ClientSampleId :
WC-22

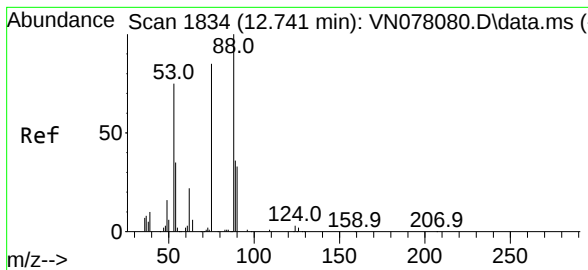
Tgt Ion: 83 Resp: 230
Ion Ratio Lower Upper
83 100
131 244.3 5.0 15.0#
85 23.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 29.980 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078311.D
Acq: 20 Jun 2023 15:49

Tgt Ion: 75 Resp: 165887
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.109 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078311.D
 Acq: 20 Jun 2023 15:49

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-22

Tgt Ion: 75 Resp: 165887
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

