

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062223\
 Data File : VN078356.D
 Acq On : 22 Jun 2023 17:40
 Operator : JC\MD
 Sample : 03360-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CE-91-062023

Quant Time: Jun 23 08:03:36 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)

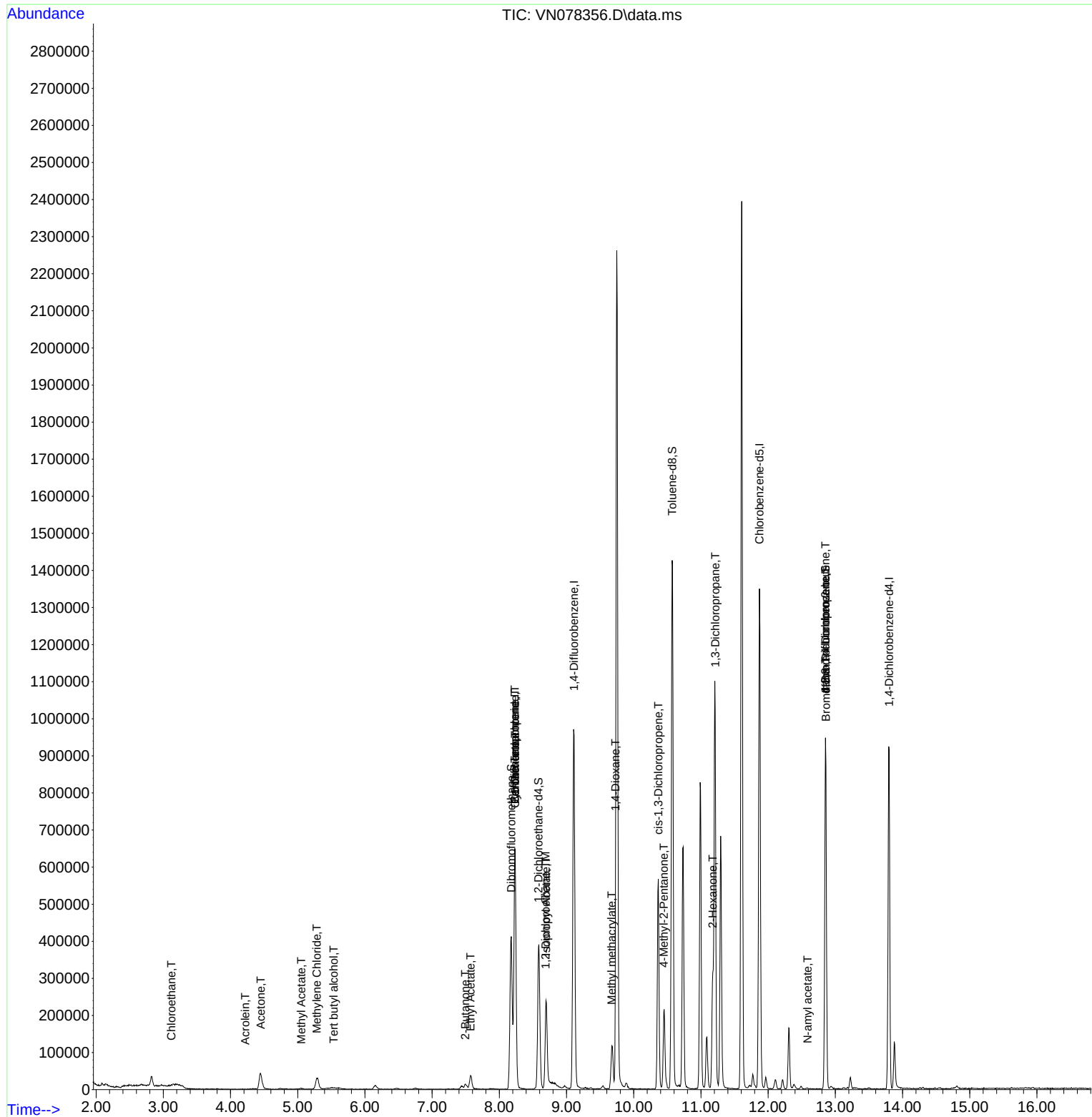
Internal Standards						
1) Pentafluorobenzene	8.230	168	461907	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	872056	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	809707	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	248593	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	322767	52.409	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.820%			
35) Dibromofluoromethane	8.177	113	295590	53.608	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.220%			
50) Toluene-d8	10.571	98	1044530	49.139	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.280%			
62) 4-Bromofluorobenzene	12.853	95	328360	49.690	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.380%			
Target Compounds						Qvalue
3) Chloromethane	2.383	50	877	Below Cal		97
6) Chloroethane	3.118	64	2896	0.621 ug/l #		88
11) Tert butyl alcohol	5.536	59	533	0.627 ug/l #		72
13) Acrolein	4.218	56	272	0.290 ug/l		98
16) Acetone	4.448	43	79853	45.046 ug/l		100
18) Methyl Acetate	5.053	43	3644	0.446 ug/l #		76
20) Methylene Chloride	5.283	84	25228	4.307 ug/l		92
25) 2-Butanone	7.494	43	20151	7.392 ug/l		99
31) Cyclohexane	8.236	56	11286	1.429 ug/l #		49
36) 1,1-Dichloropropene	8.230	75	39687	5.018 ug/l #		50
37) Ethyl Acetate	7.571	43	54344	8.796 ug/l		97
38) Carbon Tetrachloride	8.230	117	51582	6.177 ug/l #		15
42) 1,2-Dichloroethane	8.688	62	2044	0.252 ug/l #		73
43) Isopropyl Acetate	8.694	43	276781	23.424 ug/l #		83
48) Methyl methacrylate	9.671	41	7786	1.570 ug/l #		30
49) 1,4-Dioxane	9.730	88	54	0.518 ug/l #		30
51) 4-Methyl-2-Pentanone	10.447	43	147526	23.709 ug/l		89
54) cis-1,3-Dichloropropene	10.365	75	101032	10.919 ug/l #		70
57) 1,3-Dichloropropane	11.212	76	12795	1.344 ug/l #		42
59) 2-Hexanone	11.177	43	241329	55.702 ug/l #		19
71) Bromoform	12.859	173	3111	0.756 ug/l #		1
74) N-amyl acetate	12.588	43	1952	0.252 ug/l #		41
75) 1,1,2,2-Tetrachloroethane	12.853	83	153	Below Cal #		1
76) 1,2,3-Trichloropropane	12.853	75	177033	30.124 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.853	75	177033	92.550 ug/l #		15
94) Hexachlorobutadiene	15.517	225	66	Below Cal #		19

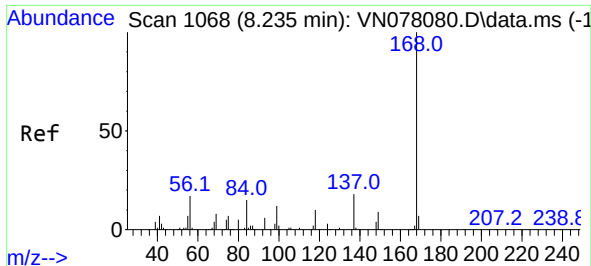
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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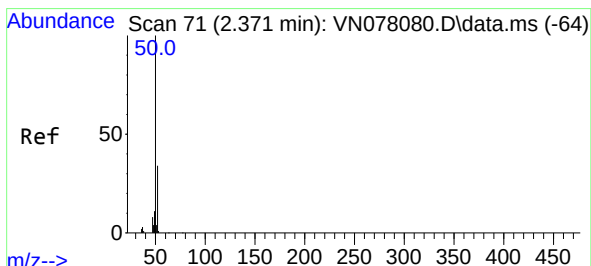
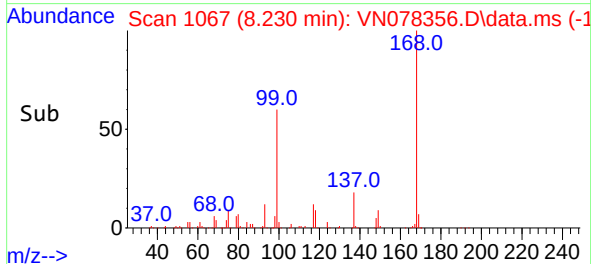
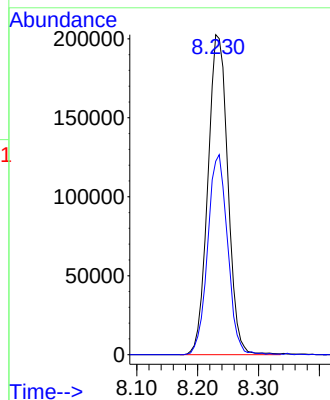
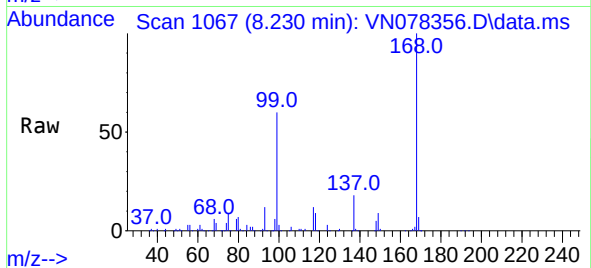




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.005 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

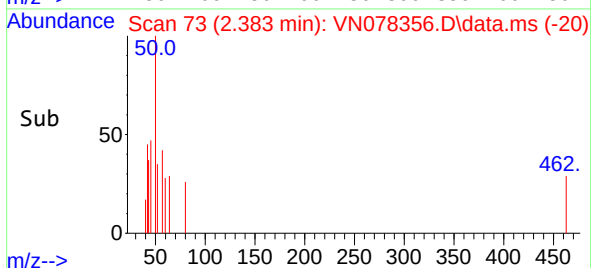
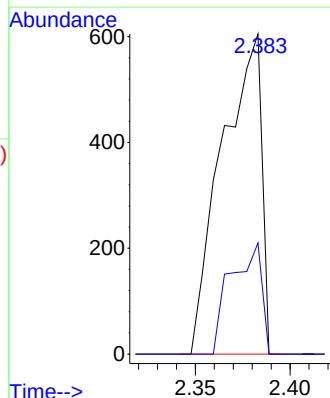
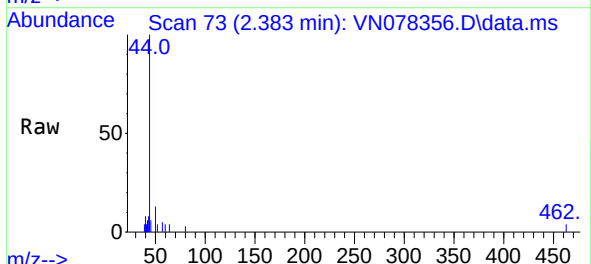
Instrument :
MSVOA_N
ClientSampleId :
CE-91-062023

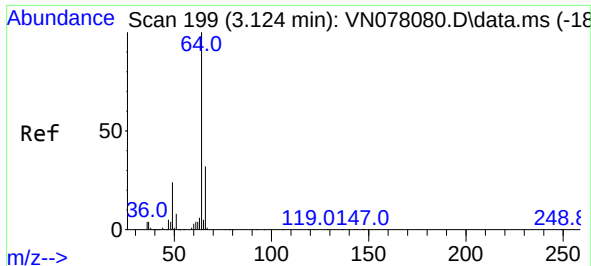
Tgt Ion:168 Resp: 461907
Ion Ratio Lower Upper
168 100
99 60.5 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.383 min Scan# 73
Delta R.T. 0.012 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion: 50 Resp: 877
Ion Ratio Lower Upper
50 100
52 34.7 26.5 39.7

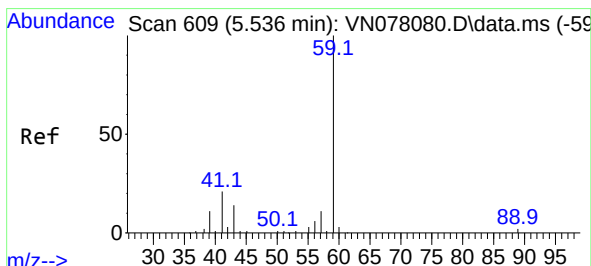
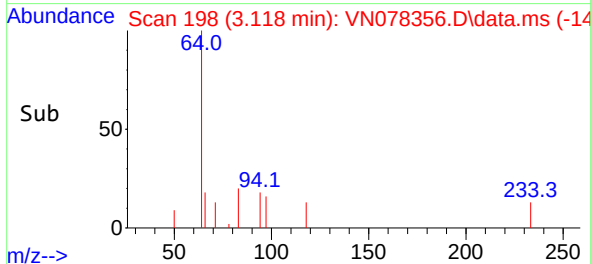
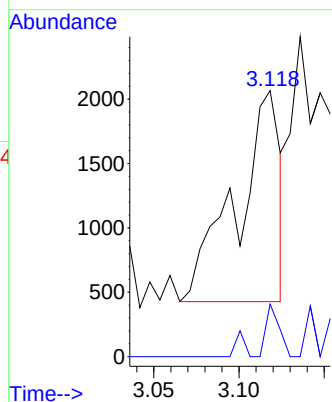
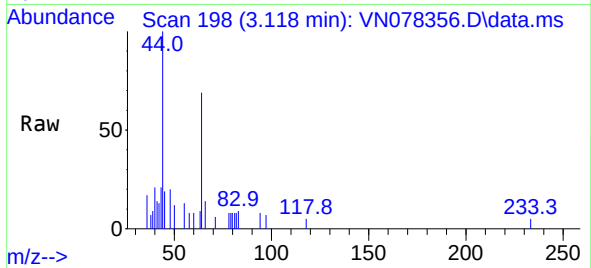




#6
Chloroethane
Concen: 0.621 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.006 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

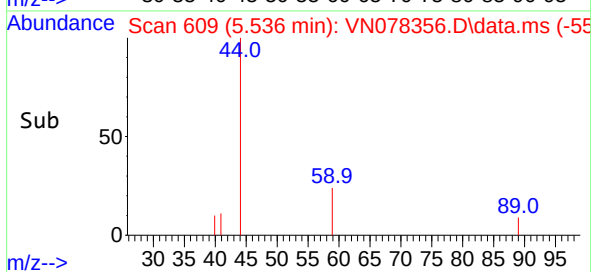
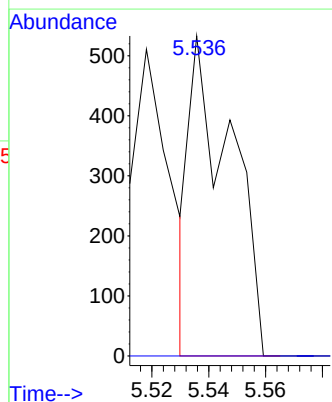
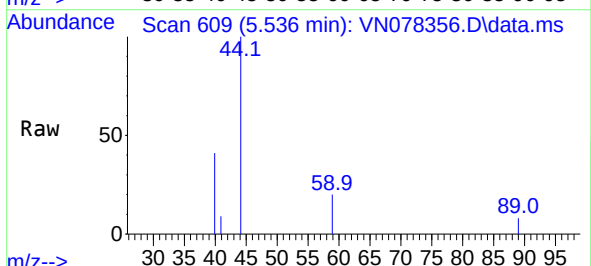
Instrument :
MSVOA_N
ClientSampleId :
CE-91-062023

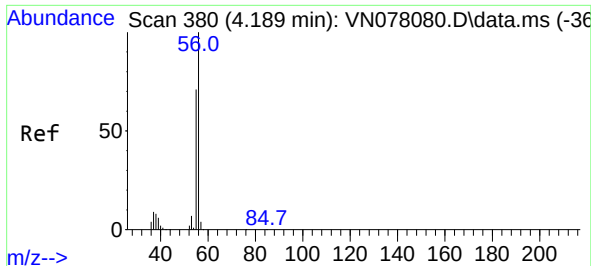
Tgt Ion: 64 Resp: 2896
Ion Ratio Lower Upper
64 100
66 25.0 25.4 38.2#



#11
Tert butyl alcohol
Concen: 0.627 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.000 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion: 59 Resp: 533
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

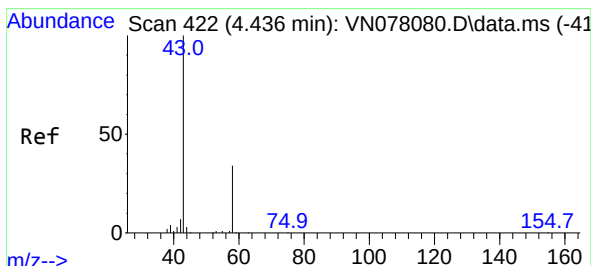
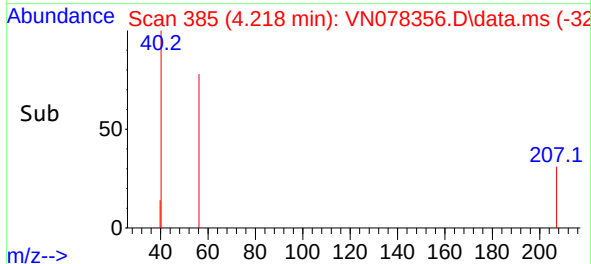
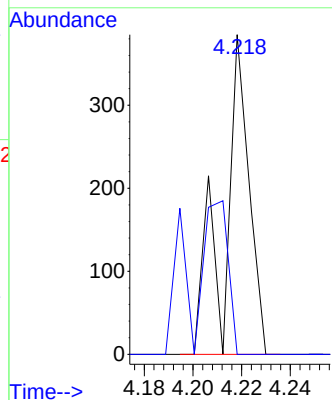
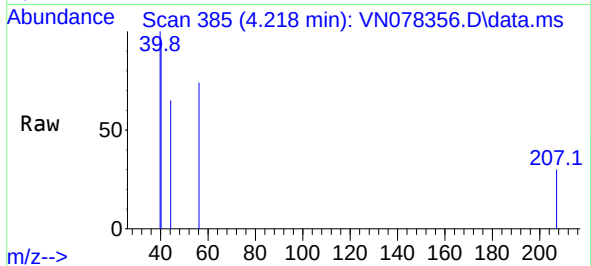




#13
Acrolein
Concen: 0.290 ug/l
RT: 4.218 min Scan# 385
Delta R.T. 0.030 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

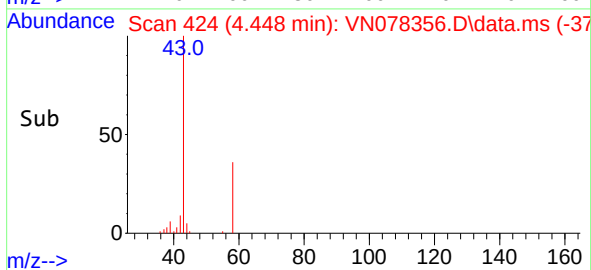
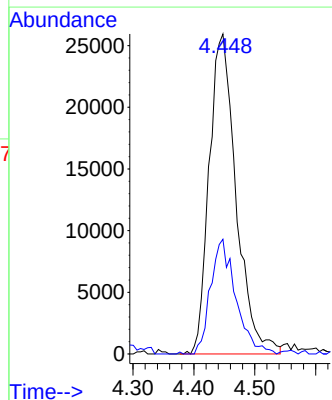
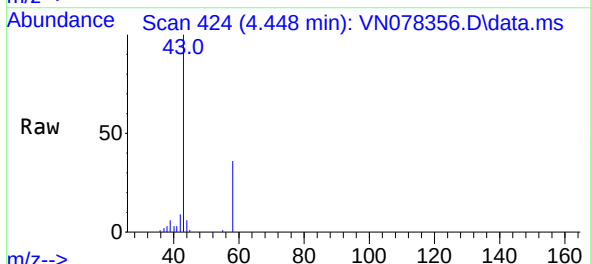
Instrument :
MSVOA_N
ClientSampleId :
CE-91-062023

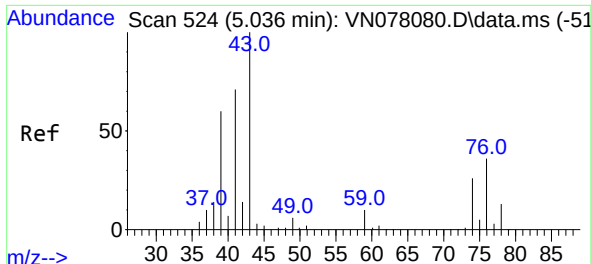
Tgt Ion: 56 Resp: 272
Ion Ratio Lower Upper
56 100
55 69.9 54.5 81.7



#16
Acetone
Concen: 45.046 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion: 43 Resp: 79853
Ion Ratio Lower Upper
43 100
58 35.2 28.0 42.0

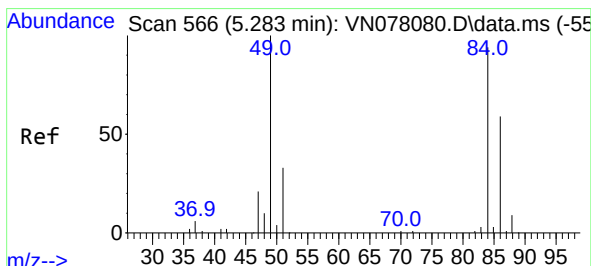
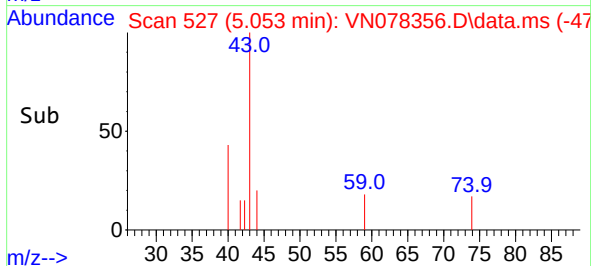
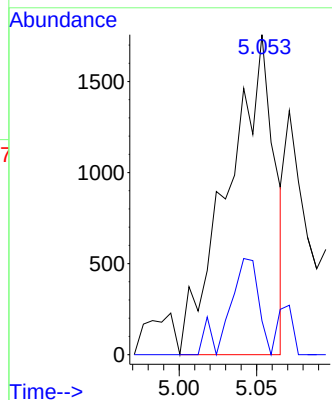
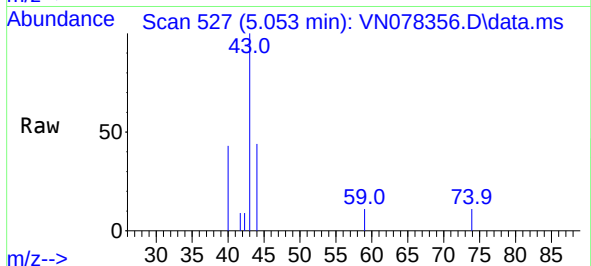




#18
Methyl Acetate
Concen: 0.446 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

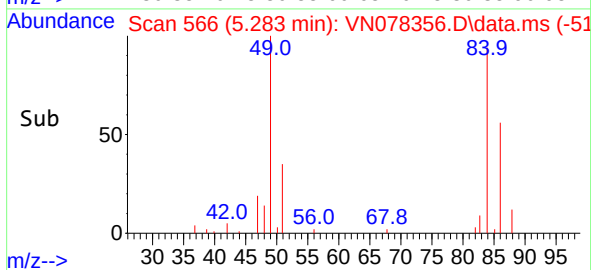
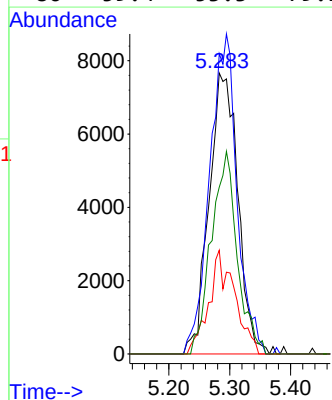
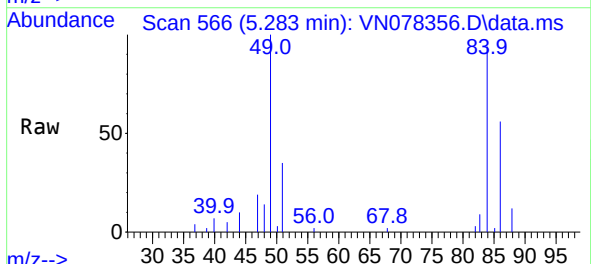
Instrument :
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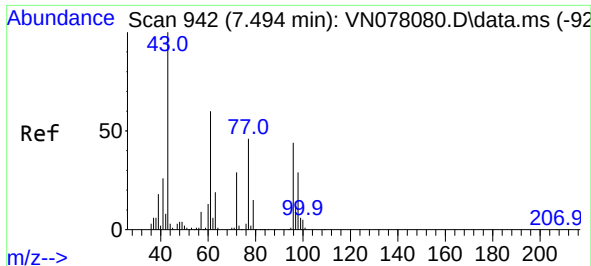
Tgt Ion: 43 Resp: 3644
Ion Ratio Lower Upper
43 100
74 19.0 26.2 39.4#



#20
Methylene Chloride
Concen: 4.307 ug/l
RT: 5.283 min Scan# 566
Delta R.T. 0.000 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion: 84 Resp: 25228
Ion Ratio Lower Upper
84 100
49 106.9 79.7 119.5
51 36.9 25.2 37.8
86 59.4 53.3 79.9

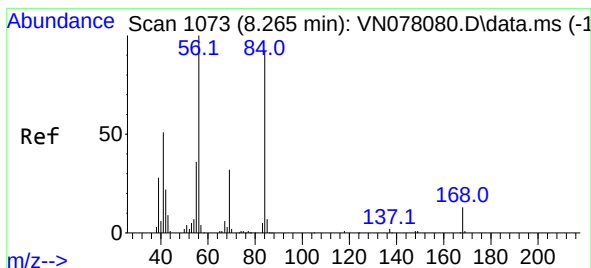
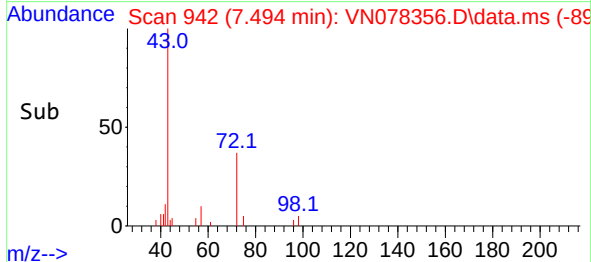
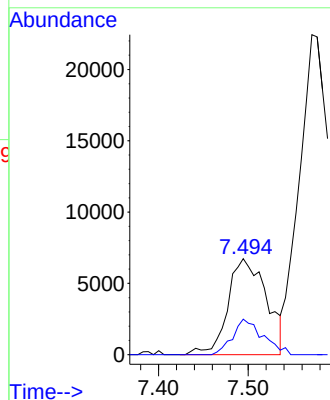
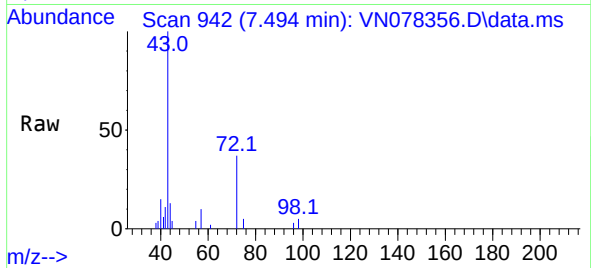




#25
2-Butanone
Concen: 7.392 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

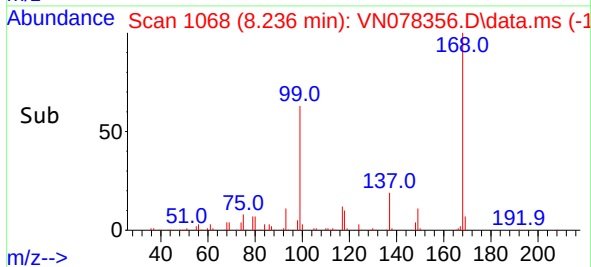
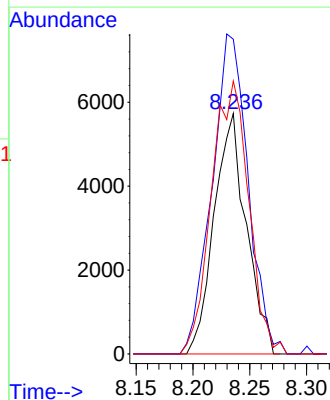
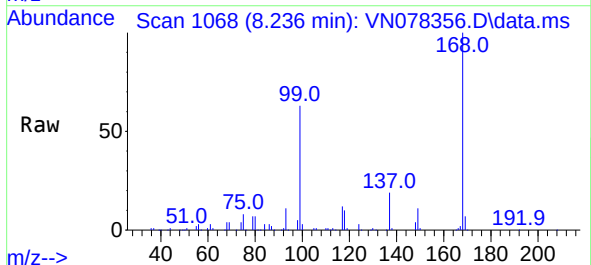
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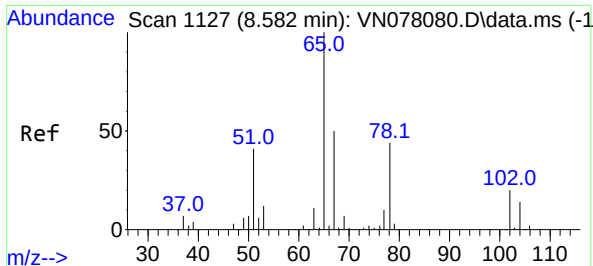
Tgt Ion: 43 Resp: 20151
Ion Ratio Lower Upper
43 100
72 37.0 30.2 45.2



#31
Cyclohexane
Concen: 1.429 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion: 56 Resp: 11286
Ion Ratio Lower Upper
56 100
69 130.9 26.8 40.2#
84 113.5 81.8 122.6

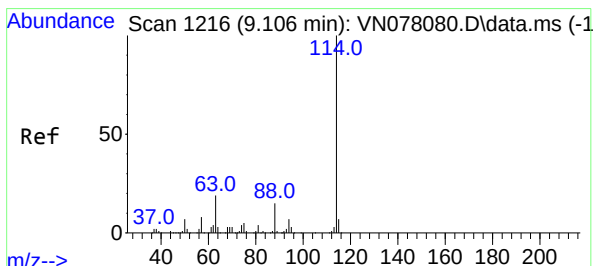
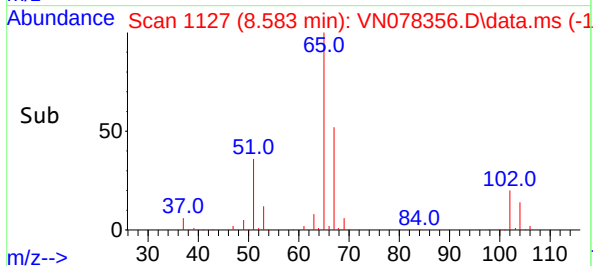
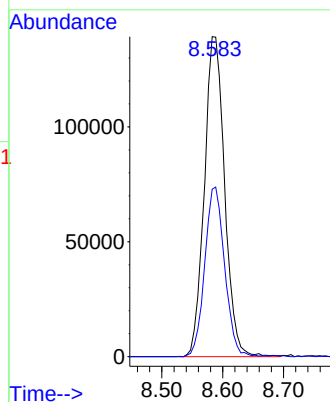
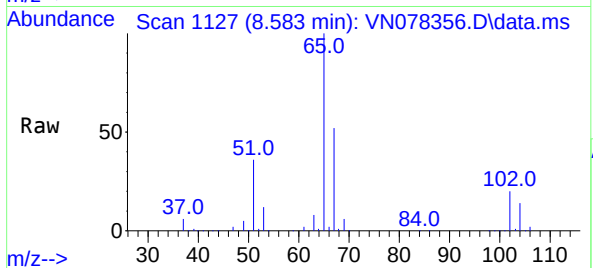




#33
1,2-Dichloroethane-d4
Concen: 52.409 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

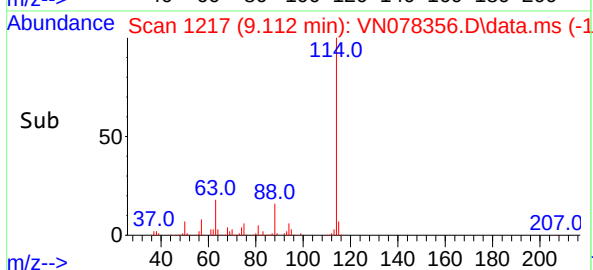
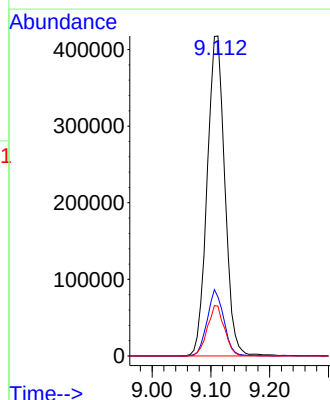
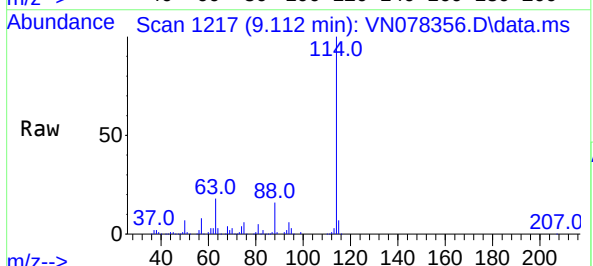
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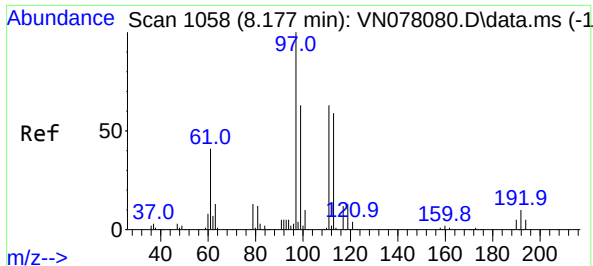
Tgt Ion: 65 Resp: 322767
Ion Ratio Lower Upper
65 100
67 51.8 0.0 106.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion: 114 Resp: 872056
Ion Ratio Lower Upper
114 100
63 18.4 0.0 36.4
88 15.5 0.0 30.6

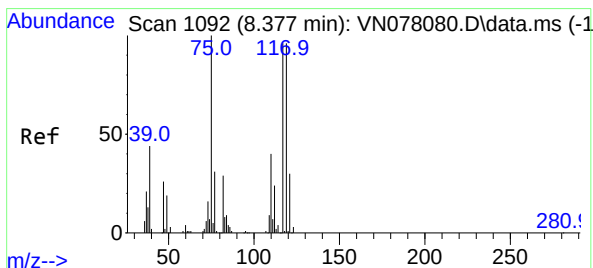
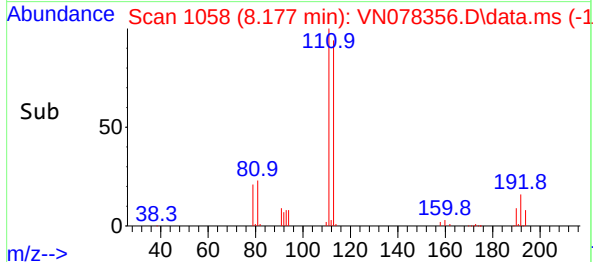
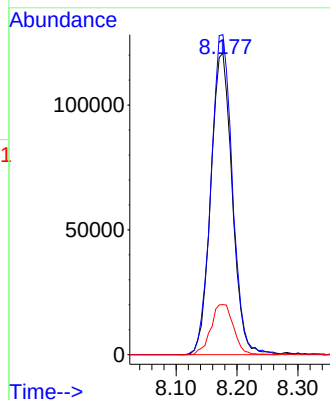
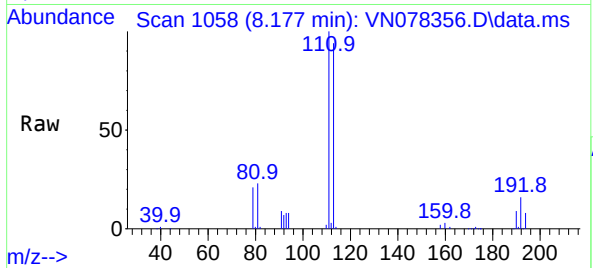




#35
Dibromofluoromethane
Concen: 53.608 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

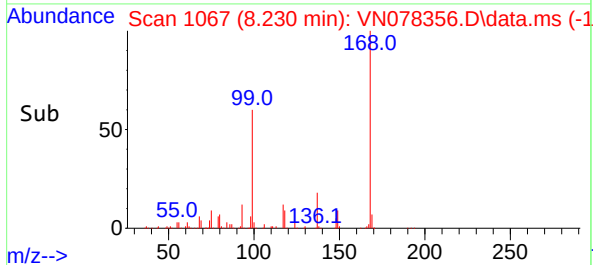
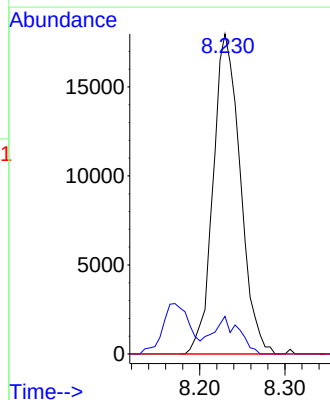
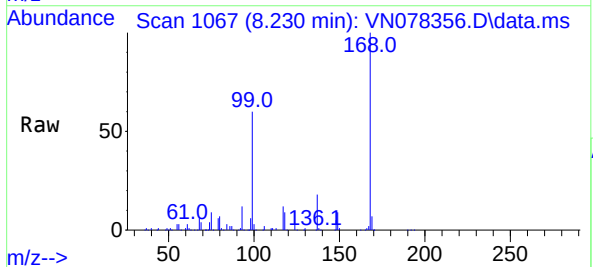
Instrument :
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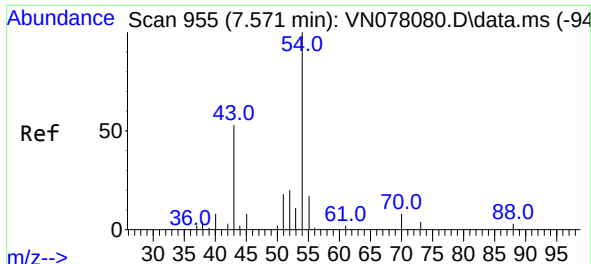
Tgt Ion:113 Resp: 295590
Ion Ratio Lower Upper
113 100
111 105.9 82.6 123.8
192 17.6 12.7 19.1



#36
1,1-Dichloropropene
Concen: 5.018 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion: 75 Resp: 39687
Ion Ratio Lower Upper
75 100
110 11.4 19.1 57.3#
77 0.0 25.0 37.4#

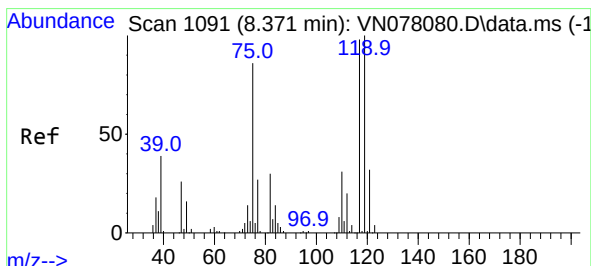
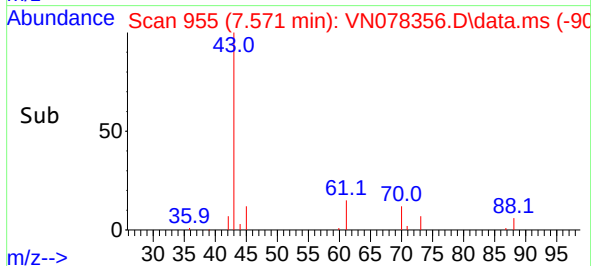
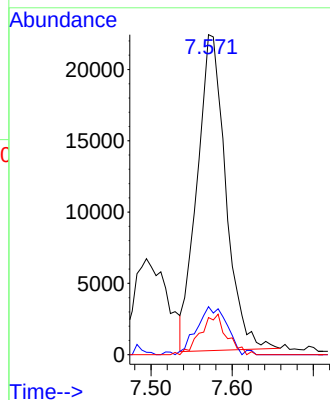
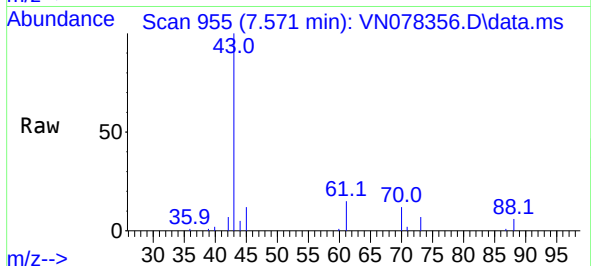




#37
Ethyl Acetate
Concen: 8.796 ug/l
RT: 7.571 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

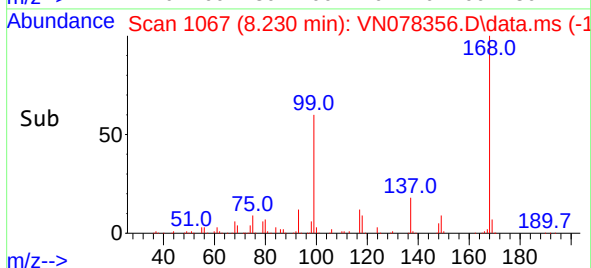
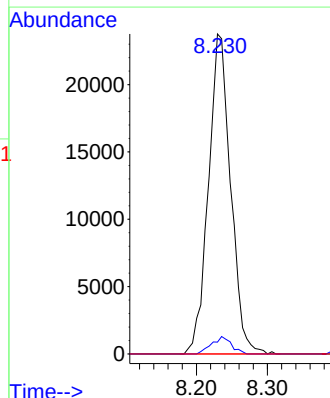
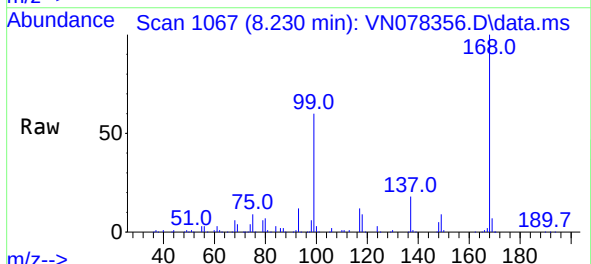
Instrument :
MSVOA_N
ClientSampleId :
CE-91-062023

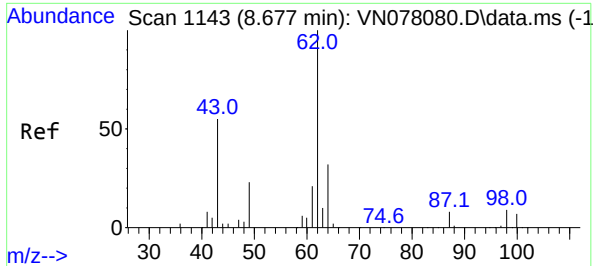
Tgt Ion:	43	Resp:	54344
Ion	Ratio	Lower	Upper
43	100		
61	16.5	13.2	19.8
70	11.7	11.3	16.9



#38
Carbon Tetrachloride
Concen: 6.177 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion:	117	Resp:	51582
Ion	Ratio	Lower	Upper
117	100		
119	3.7	77.3	115.9#
121	0.0	23.3	34.9#

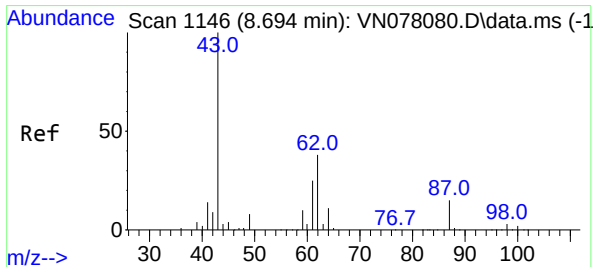
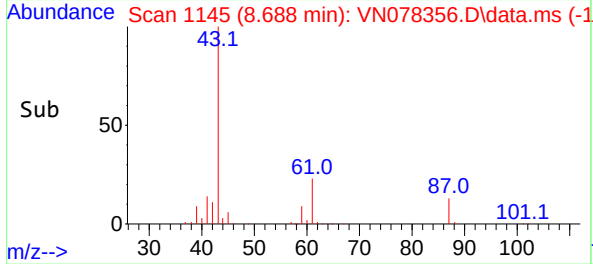
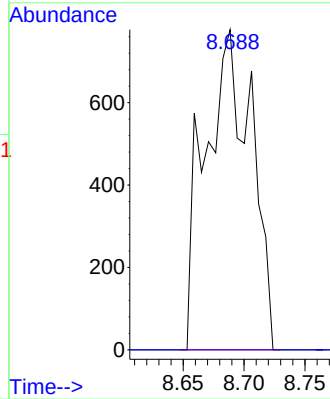
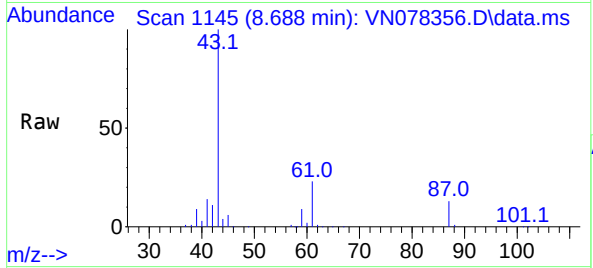




#42
 1,2-Dichloroethane
 Concen: 0.252 ug/l
 RT: 8.688 min Scan# 1145
 Delta R.T. 0.012 min
 Lab File: VN078356.D
 Acq: 22 Jun 2023 17:40

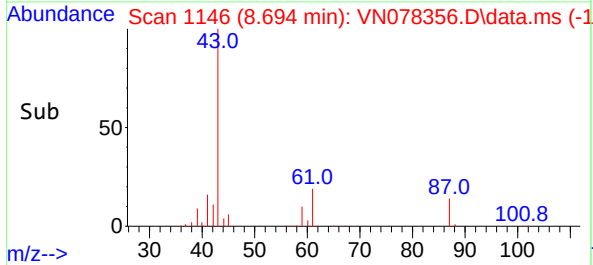
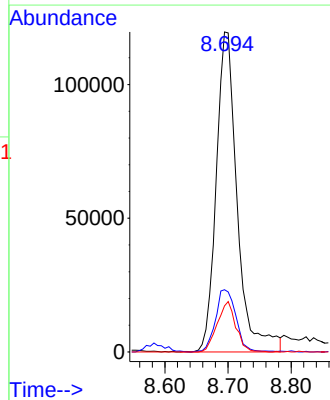
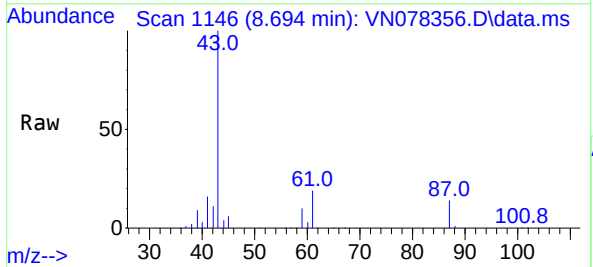
Instrument :
 MSVOA_N
 ClientSampleId :
 CE-91-062023

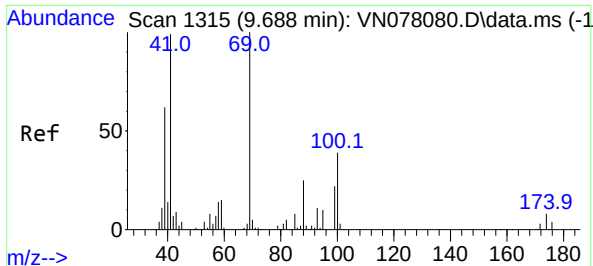
Tgt Ion:	62	Resp:	2044
Ion Ratio	Lower	Upper	
62	100		
98	0.0	0.0	19.8



#43
 Isopropyl Acetate
 Concen: 23.424 ug/l
 RT: 8.694 min Scan# 1146
 Delta R.T. 0.000 min
 Lab File: VN078356.D
 Acq: 22 Jun 2023 17:40

Tgt Ion:	43	Resp:	276781
Ion Ratio	Lower	Upper	
43	100		
61	19.0	24.7	37.1#
87	14.0	14.6	21.8#

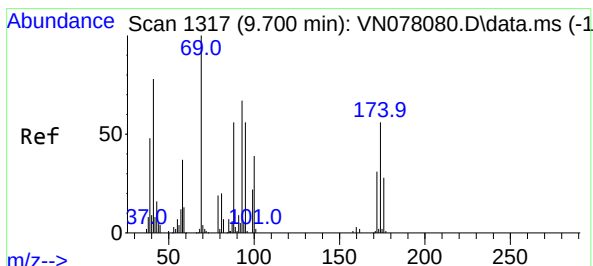
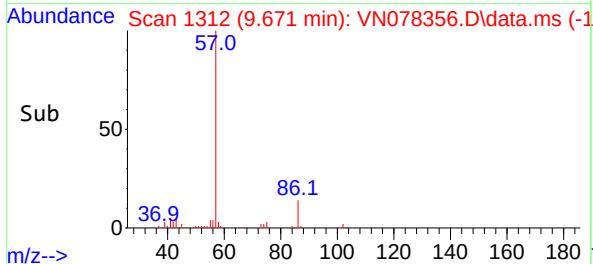
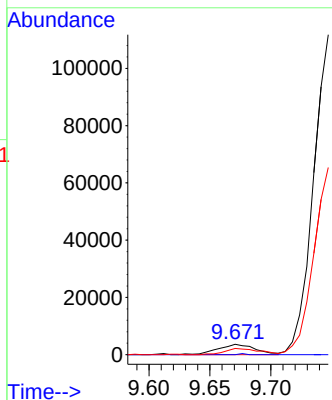
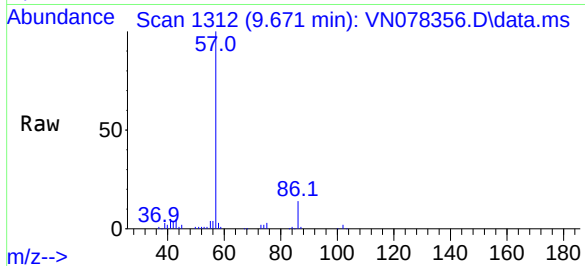




#48
Methyl methacrylate
Concen: 1.570 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

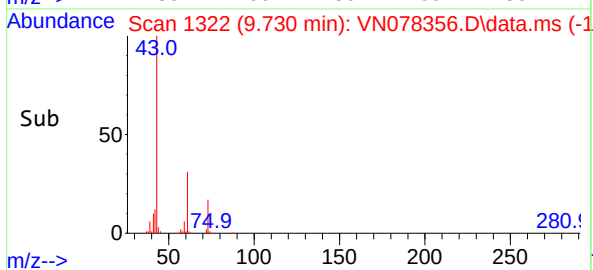
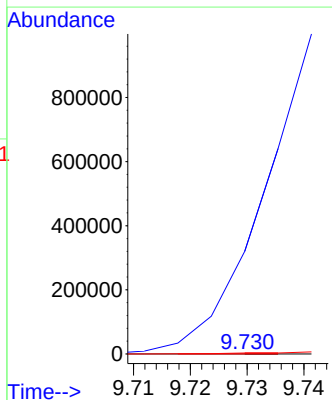
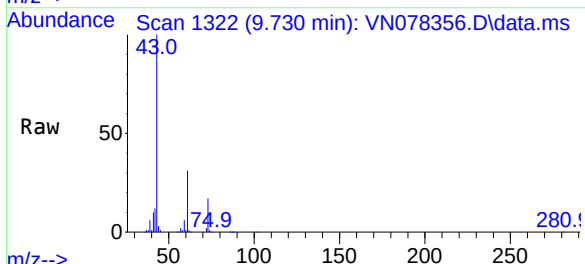
Instrument :
MSVOA_N
ClientSampleId :
CE-91-062023

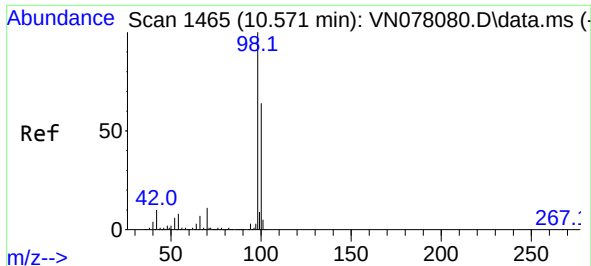
Tgt Ion: 41 Resp: 7786
Ion Ratio Lower Upper
41 100
69 1.7 90.4 135.6#
39 55.9 54.6 81.8



#49
1,4-Dioxane
Concen: 0.518 ug/l
RT: 9.730 min Scan# 1322
Delta R.T. 0.030 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion: 88 Resp: 54
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 0.0 47.0 70.4#

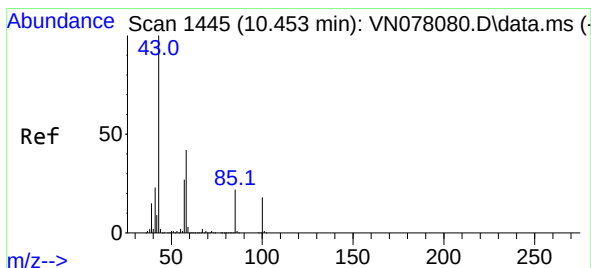
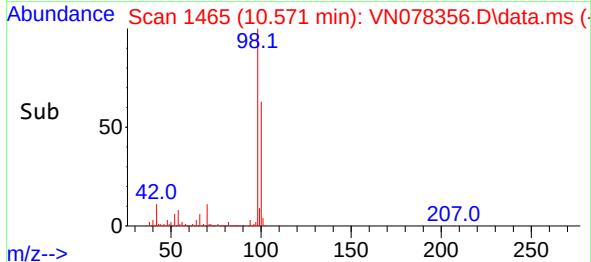
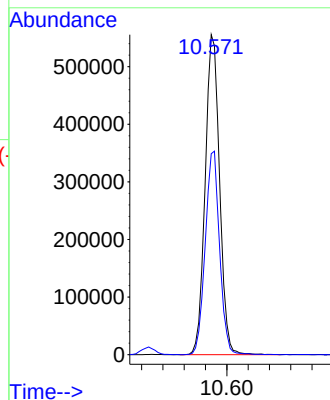
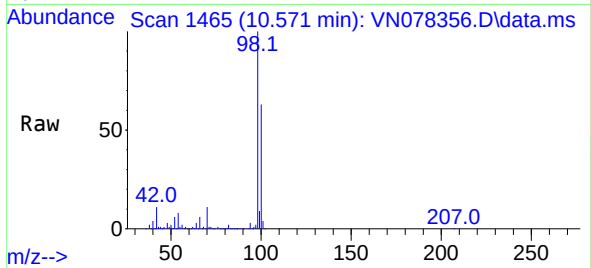




#50
Toluene-d8
Concen: 49.139 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

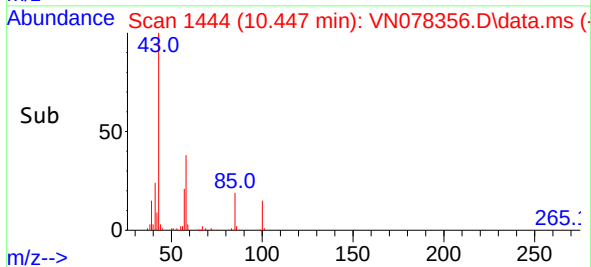
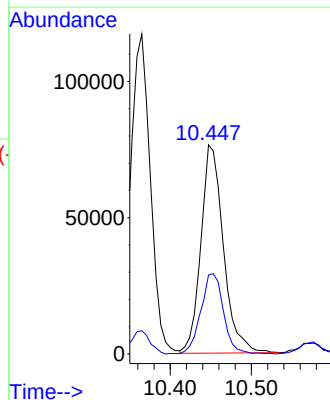
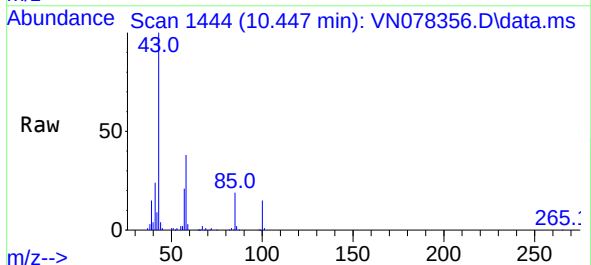
Instrument :
MSVOA_N
ClientSampleId :
CE-91-062023

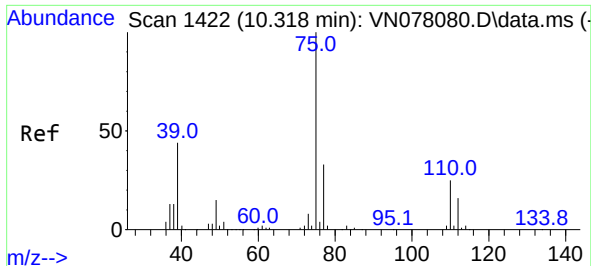
Tgt Ion: 98 Resp: 1044530
Ion Ratio Lower Upper
98 100
100 63.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 23.709 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion: 43 Resp: 147526
Ion Ratio Lower Upper
43 100
58 38.7 36.6 54.8

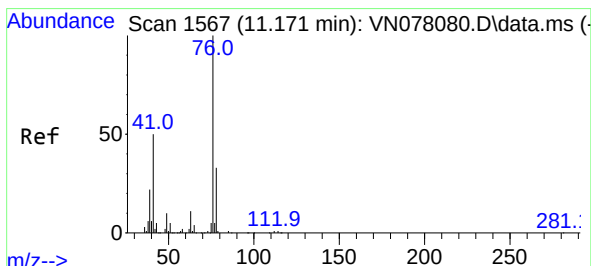
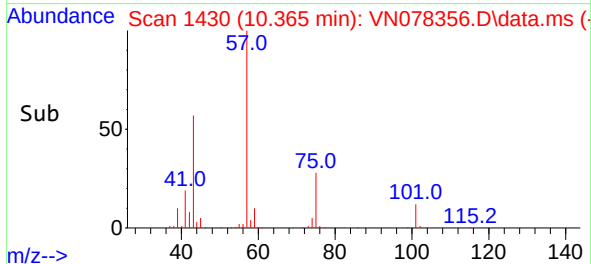
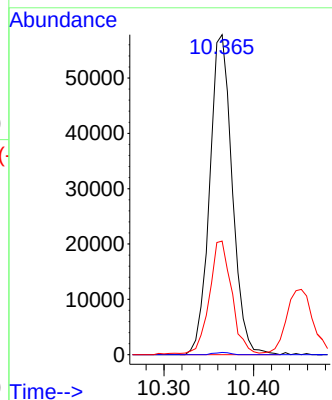
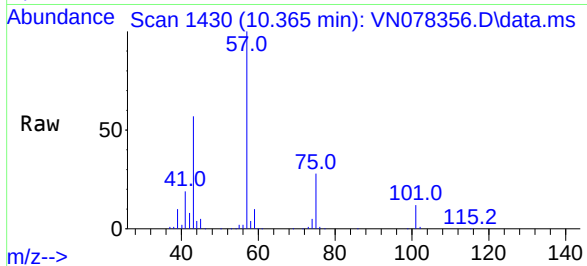




#54
 cis-1,3-Dichloropropene
 Concen: 10.919 ug/l
 RT: 10.365 min Scan# 1422
 Delta R.T. 0.047 min
 Lab File: VN078356.D
 Acq: 22 Jun 2023 17:40

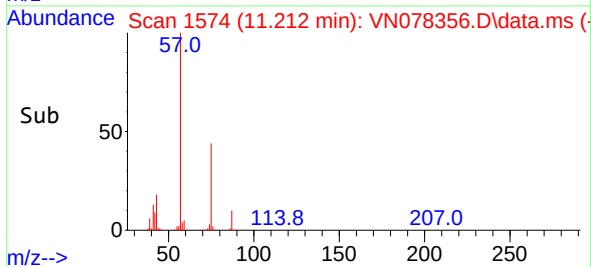
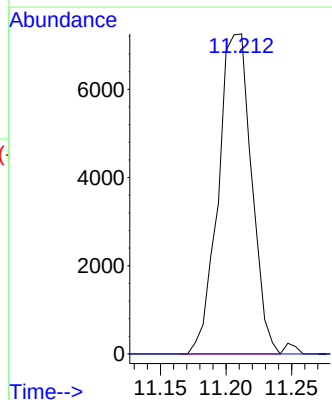
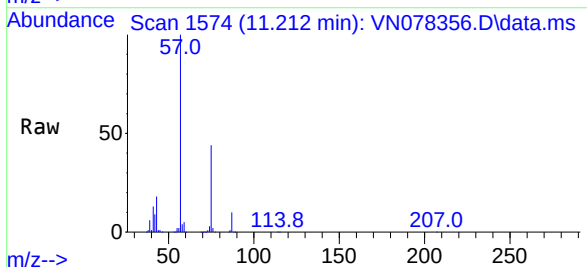
Instrument :
 MSVOA_N
 ClientSampleId :
 CE-91-062023

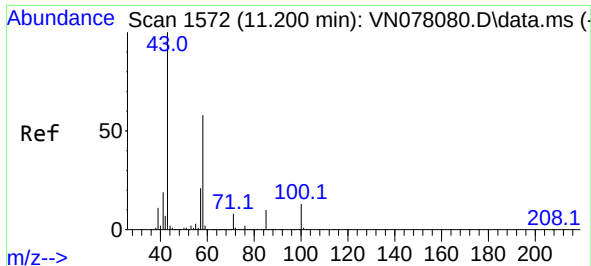
Tgt Ion: 75 Resp: 101032
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.1 39.1#
 39 35.1 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 1.344 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.041 min
 Lab File: VN078356.D
 Acq: 22 Jun 2023 17:40

Tgt Ion: 76 Resp: 12795
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

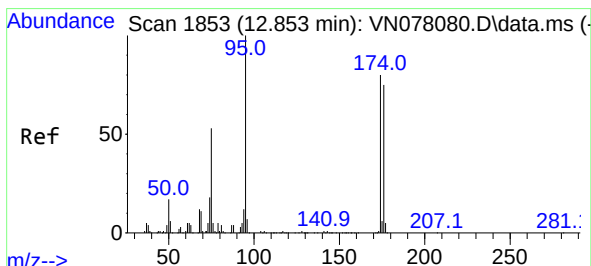
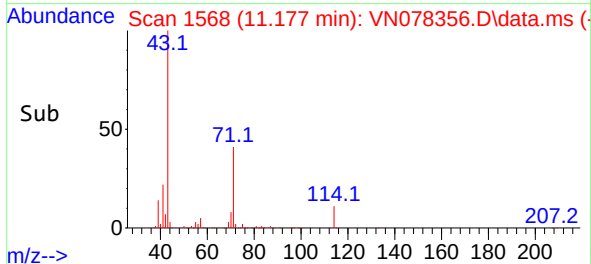
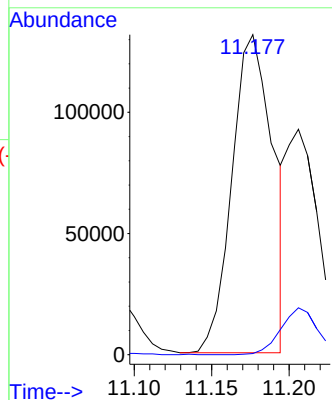
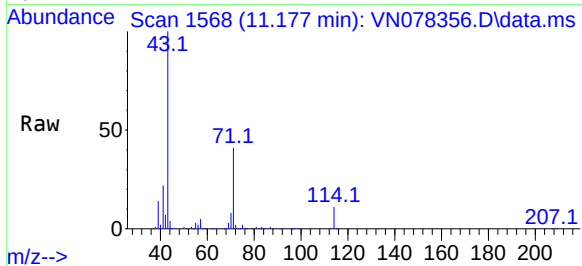




#59
2-Hexanone
Concen: 55.702 ug/l
RT: 11.177 min Scan# 1117
Delta R.T. -0.023 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

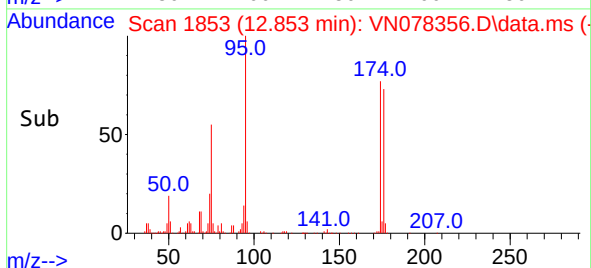
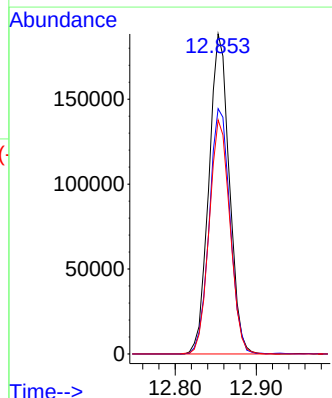
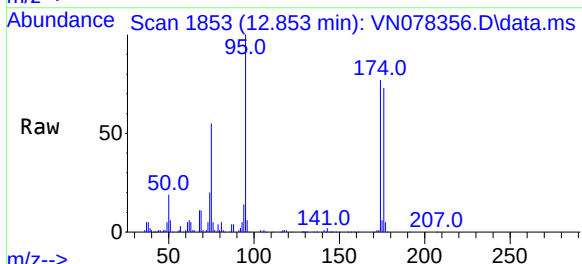
Instrument :
MSVOA_N
ClientSampleId :
CE-91-062023

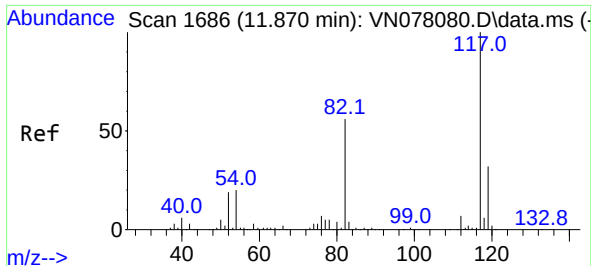
Tgt Ion: 43 Resp: 241329
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 49.690 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

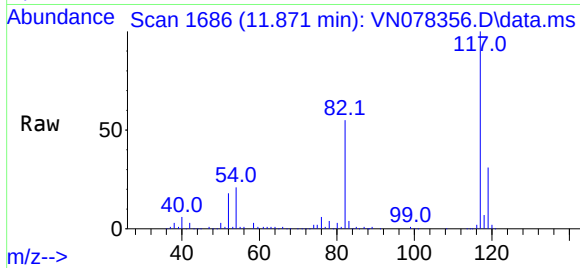
Tgt Ion: 95 Resp: 328360
Ion Ratio Lower Upper
95 100
174 78.2 0.0 143.8
176 74.2 0.0 135.8



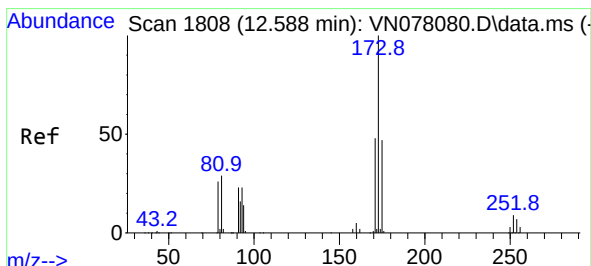
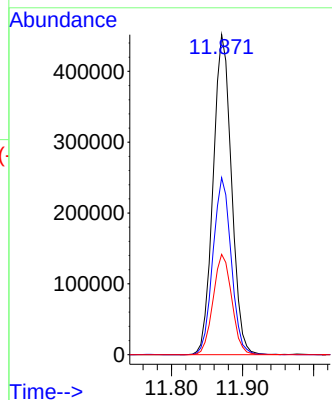
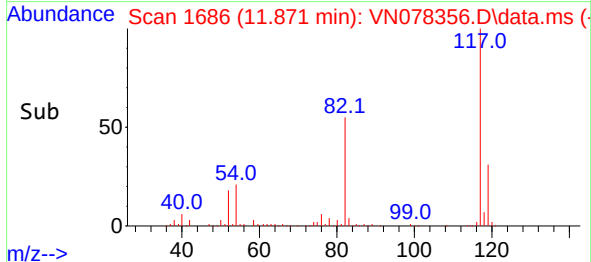


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Instrument :
MSVOA_N
ClientSampleId :
CE-91-062023

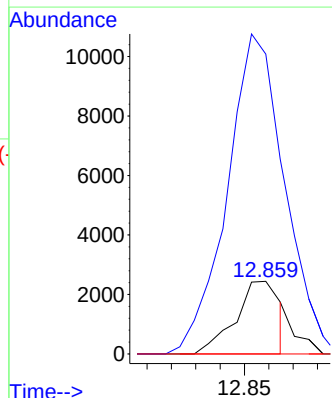
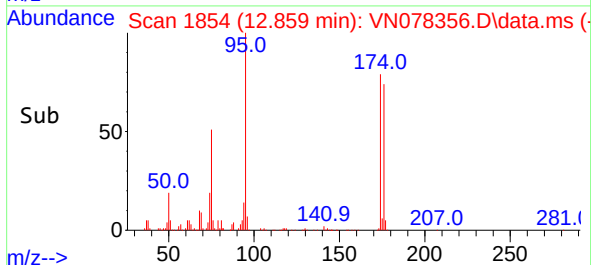
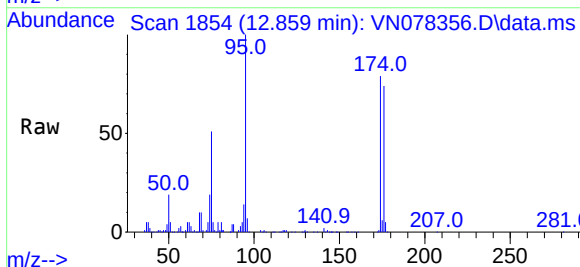


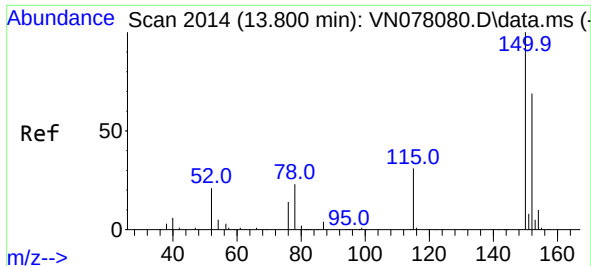
Tgt Ion:117 Resp: 809707
Ion Ratio Lower Upper
117 100
82 55.3 44.0 66.0
119 31.4 25.6 38.4



#71
Bromoform
Concen: 0.756 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.271 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion:173 Resp: 3111
Ion Ratio Lower Upper
173 100
175 494.3 24.3 73.0#
254 0.0 0.0 0.0

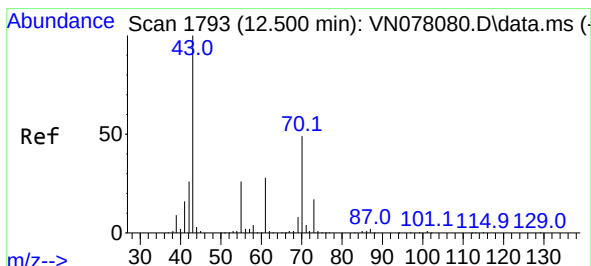
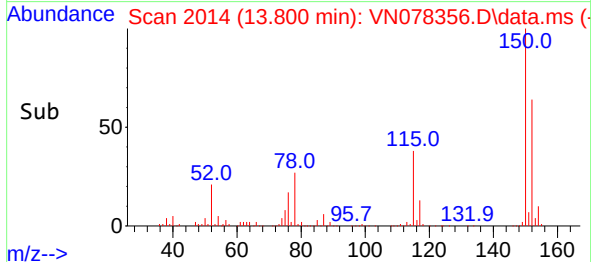
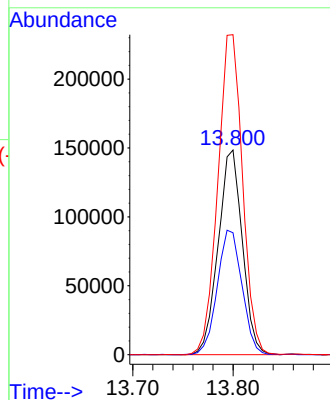
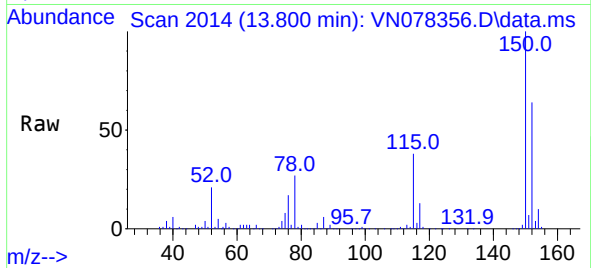




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 20
Delta R.T. 0.000 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

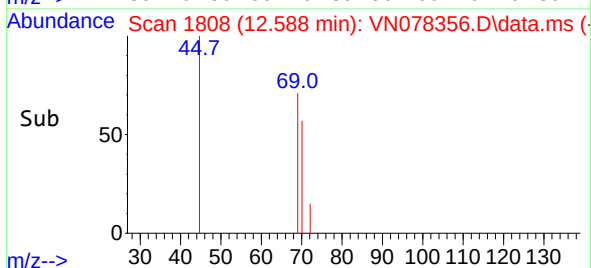
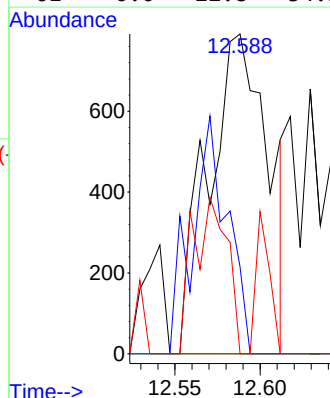
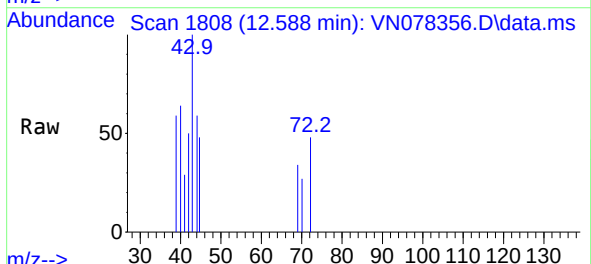
Instrument :
MSVOA_N
ClientSampleId :
CE-91-062023

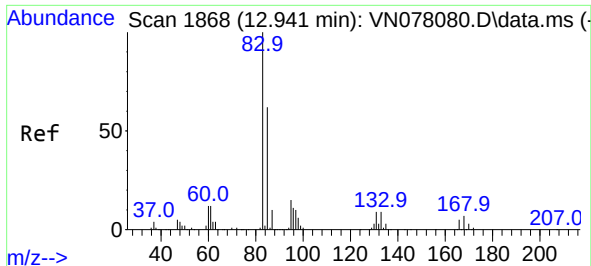
Tgt Ion:152 Resp: 248593
Ion Ratio Lower Upper
152 100
115 62.2 32.3 96.8
150 160.0 0.0 355.8



#74
N-ethyl acetate
Concen: 0.252 ug/l
RT: 12.588 min Scan# 1808
Delta R.T. 0.088 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion: 43 Resp: 1952
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 9.9 21.4 32.0#
61 0.0 22.8 34.2#

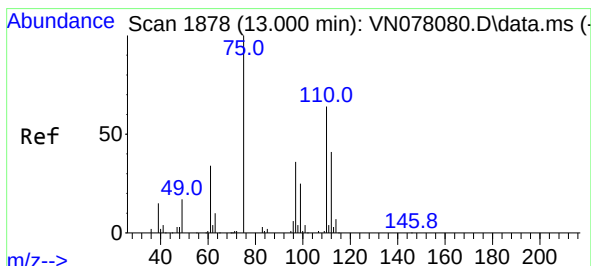
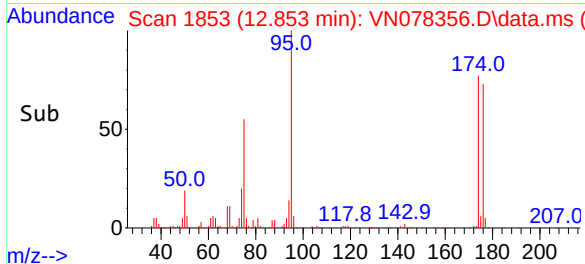
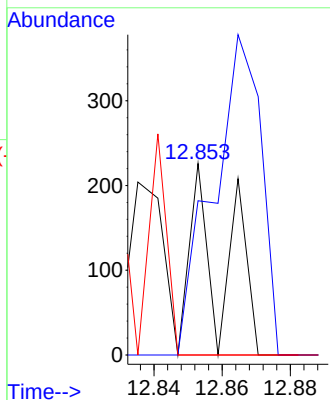
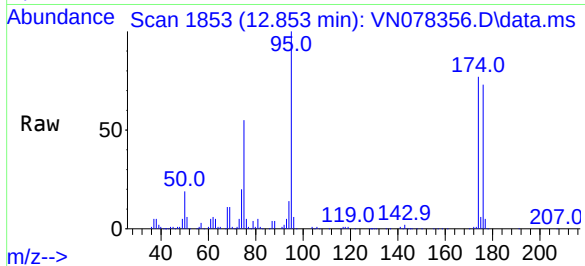




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.853 min Scan# 1853
Delta R.T. -0.088 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

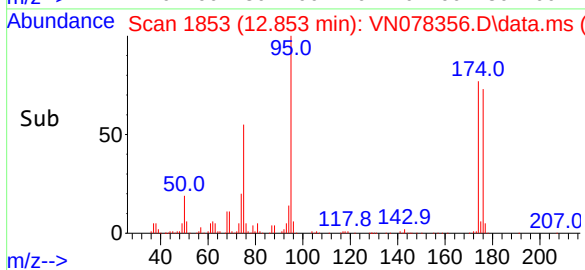
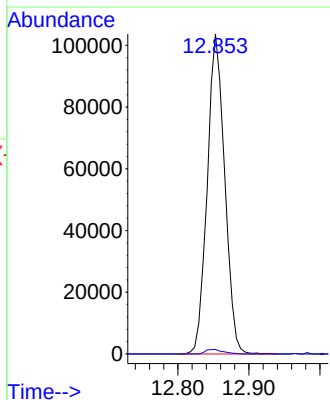
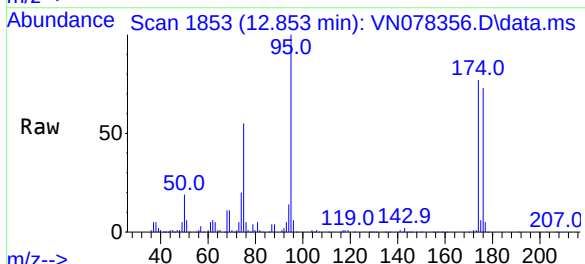
Instrument :
MSVOA_N
ClientSampleId :
CE-91-062023

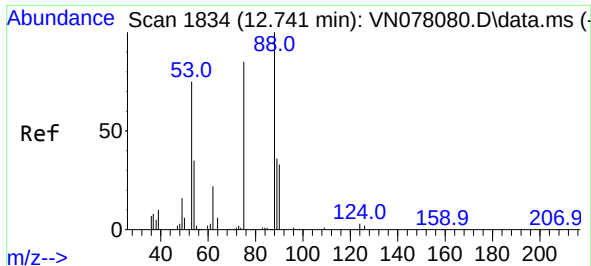
Tgt Ion: 83 Resp: 153
Ion Ratio Lower Upper
83 100
131 240.5 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 30.124 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion: 75 Resp: 177033
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#

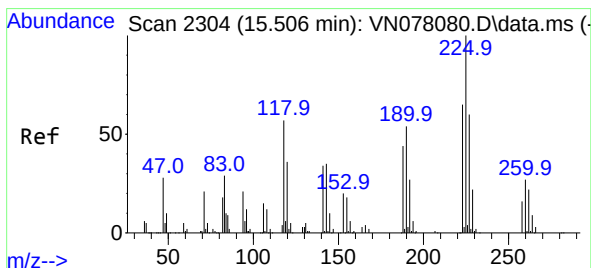
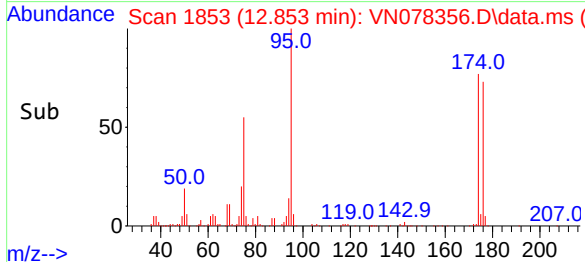
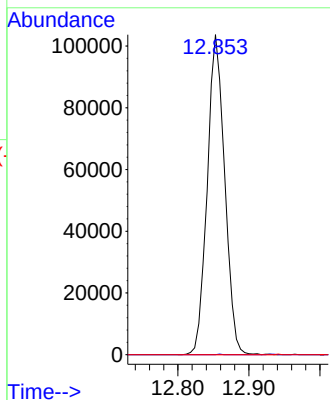
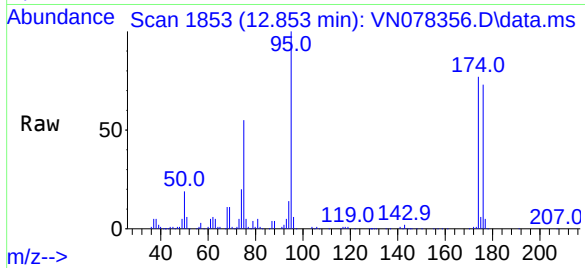




#81
trans-1,4-Dichloro-2-butene
Concen: 92.550 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Instrument :
MSVOA_N
ClientSampleId :
CE-91-062023

Tgt Ion: 75 Resp: 177033
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.517 min Scan# 2306
Delta R.T. 0.011 min
Lab File: VN078356.D
Acq: 22 Jun 2023 17:40

Tgt Ion: 225 Resp: 66
Ion Ratio Lower Upper
225 100
223 0.0 31.3 93.8#
227 0.0 31.9 95.9#

