

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042023\
 Data File : VN077390.D
 Acq On : 20 Apr 2023 10:56
 Operator : JC\MD
 Sample : VN0420MBL01
 Misc : 5.0g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0420MBL01

Quant Time: Apr 21 02:37:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N040523W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 06 08:27:03 2023
 Response via : Initial Calibration

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

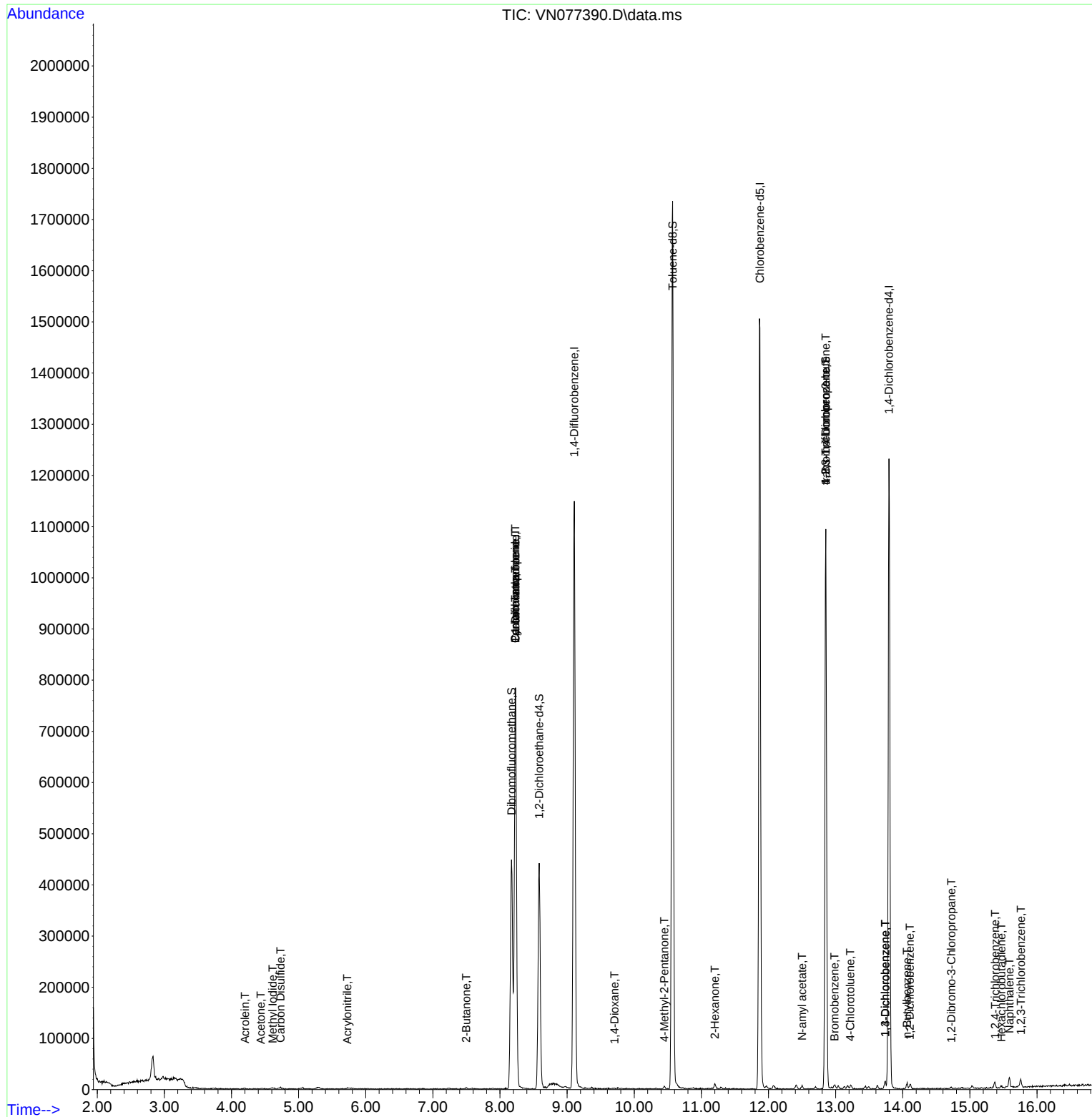
Internal Standards						
1) Pentafluorobenzene	8.231	168	568557	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1068841	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	928842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	335373	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	347588	44.731	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.460%		
35) Dibromofluoromethane	8.172	113	322697	47.161	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.320%		
50) Toluene-d8	10.572	98	1291006	46.869	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.740%		
62) 4-Bromofluorobenzene	12.854	95	390342	42.608	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	85.220%		
Target Compounds					Qvalue	
10) Methyl Iodide	4.613	142	3614	0.459	ug/l #	64
13) Acrolein	4.201	56	676	0.450	ug/l #	72
15) Acrylonitrile	5.725	53	713	0.203	ug/l #	34
16) Acetone	4.437	43	885	0.309	ug/l #	76
17) Carbon Disulfide	4.731	76	5418	0.302	ug/l #	75
25) 2-Butanone	7.495	43	1264	0.272	ug/l #	65
31) Cyclohexane	8.231	56	13859	1.148	ug/l #	35
36) 1,1-Dichloropropene	8.231	75	48733	4.816	ug/l #	50
38) Carbon Tetrachloride	8.231	117	62399	6.018	ug/l #	15
49) 1,4-Dioxane	9.707	88	172	0.995	ug/l #	1
51) 4-Methyl-2-Pentanone	10.448	43	3815	0.395	ug/l #	78
59) 2-Hexanone	11.201	43	5561	0.773	ug/l	94
74) N-amyl acetate	12.501	43	3801	0.308	ug/l #	85
76) 1,2,3-Trichloropropane	12.854	75	205627	25.748	ug/l #	1
77) Bromobenzene	12.983	156	1446	0.218	ug/l	90
81) trans-1,4-Dichloro-2-b...	12.854	75	205627	57.942	ug/l #	13
82) 4-Chlorotoluene	13.219	91	5924	0.290	ug/l	93
87) 1,3-Dichlorobenzene	13.742	146	4814	0.393	ug/l	87
88) 1,4-Dichlorobenzene	13.742	146	4814	0.398	ug/l	89
89) n-Butylbenzene	14.066	91	6249	0.297	ug/l	88
91) 1,2-Dichlorobenzene	14.107	146	3787	0.309	ug/l	91
92) 1,2-Dibromo-3-Chloropr...	14.724	75	705	0.364	ug/l	91
93) 1,2,4-Trichlorobenzene	15.377	180	4346	0.982	ug/l	95
94) Hexachlorobutadiene	15.471	225	680	0.265	ug/l #	59
95) Naphthalene	15.589	128	19090	1.148	ug/l	95
96) 1,2,3-Trichlorobenzene	15.760	180	4641	1.096	ug/l	97

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

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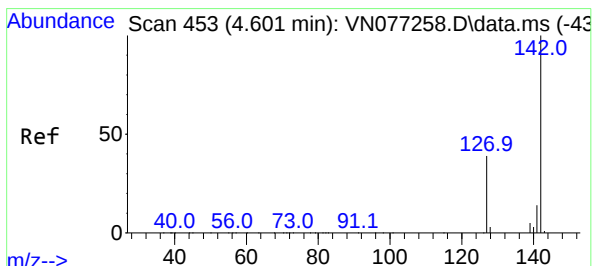
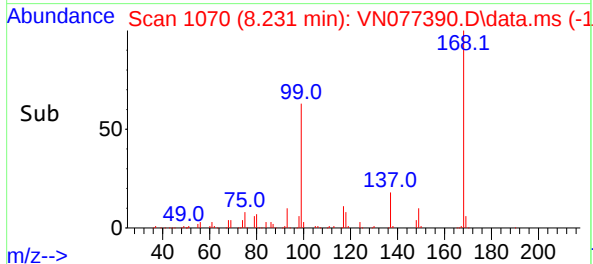
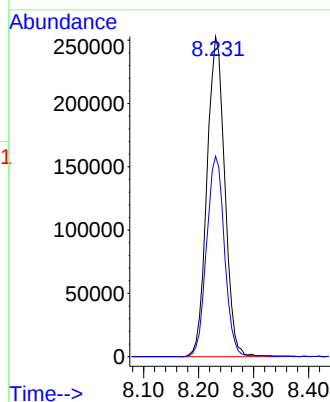
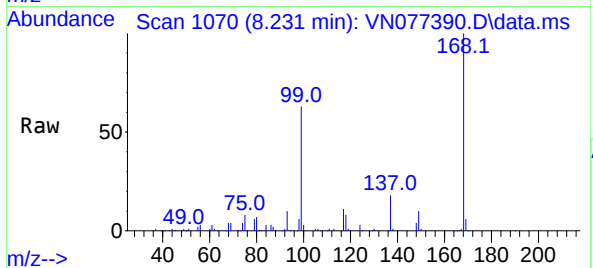




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

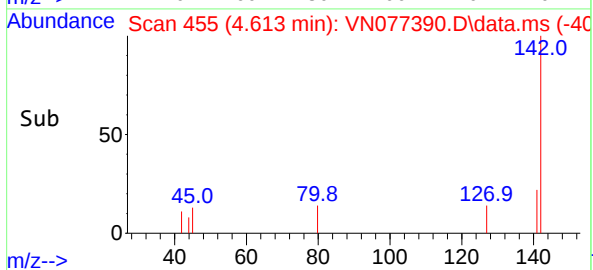
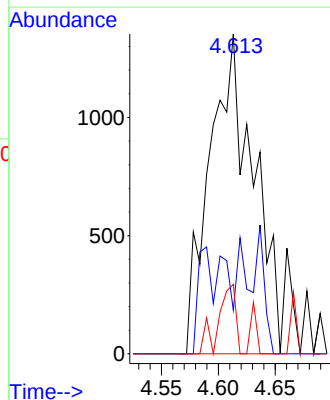
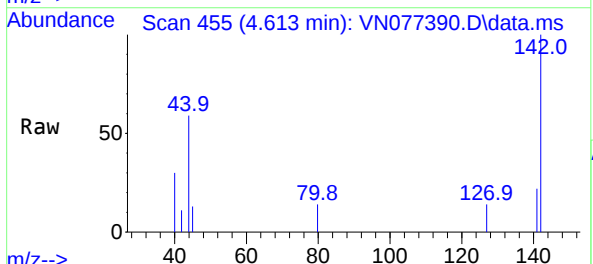
Instrument :
MSVOA_N
ClientSampleId :
VN0420MBL01

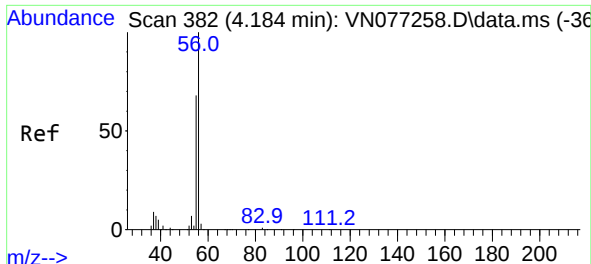
Tgt Ion:168 Resp: 568557
Ion Ratio Lower Upper
168 100
99 62.6 50.6 75.8



#10
Methyl Iodide
Concen: 0.459 ug/l
RT: 4.613 min Scan# 455
Delta R.T. 0.012 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion:142 Resp: 3614
Ion Ratio Lower Upper
142 100
127 13.7 31.5 47.3#
141 21.7 11.4 17.2#

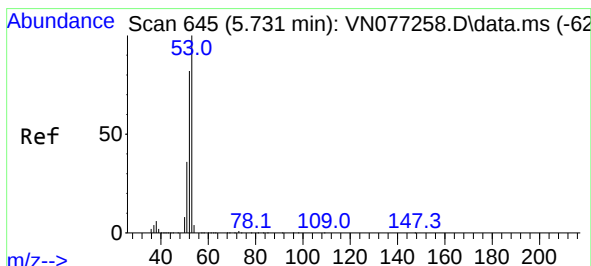
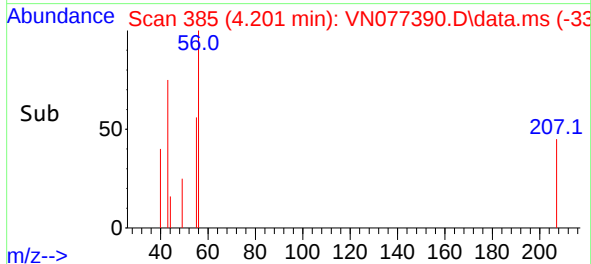
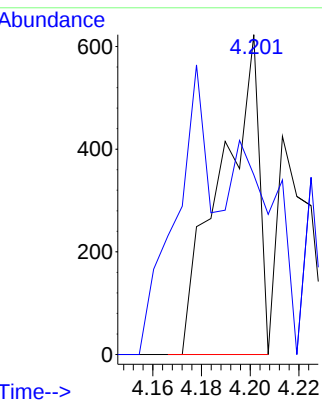
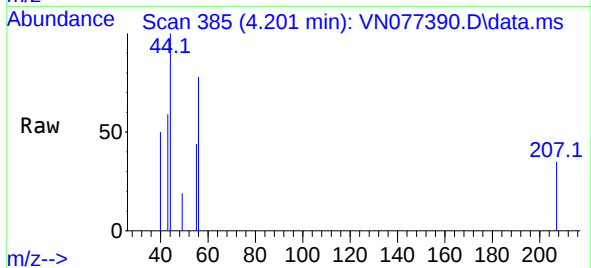




#13
Acrolein
Concen: 0.450 ug/l
RT: 4.201 min Scan# 385
Delta R.T. 0.017 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

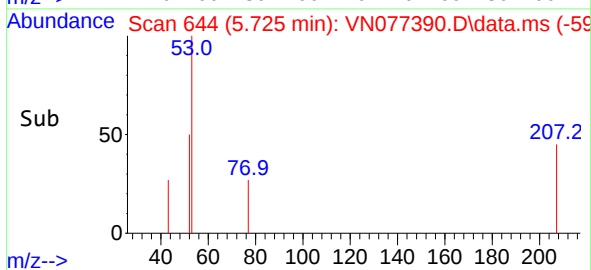
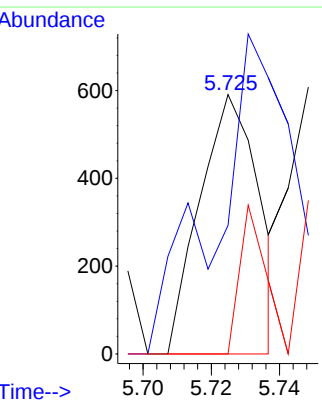
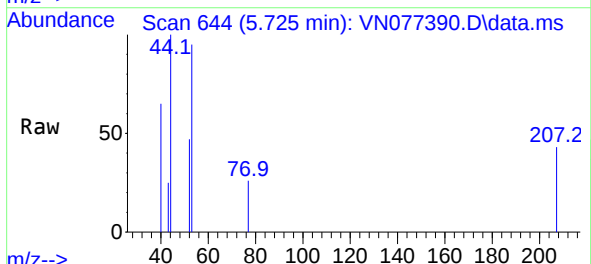
Instrument :
MSVOA_N
ClientSampleId :
VN0420MBL01

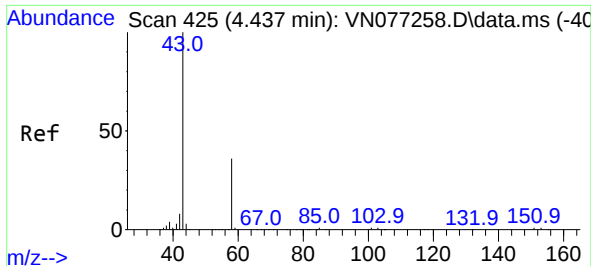
Tgt Ion: 56 Resp: 676
Ion Ratio Lower Upper
56 100
55 90.1 54.2 81.2#



#15
Acrylonitrile
Concen: 0.203 ug/l
RT: 5.725 min Scan# 644
Delta R.T. -0.006 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion: 53 Resp: 713
Ion Ratio Lower Upper
53 100
52 158.6 65.2 97.8#
51 25.1 28.1 42.1#

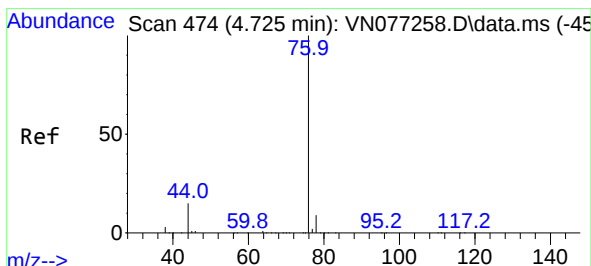
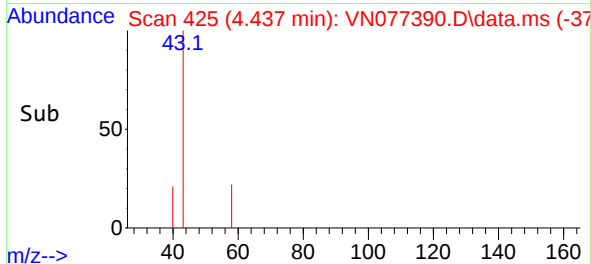
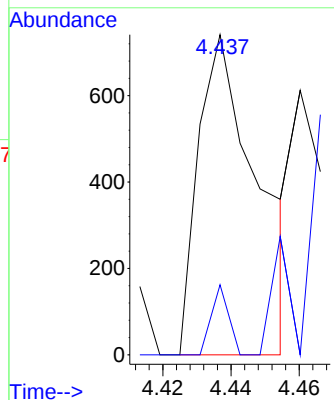
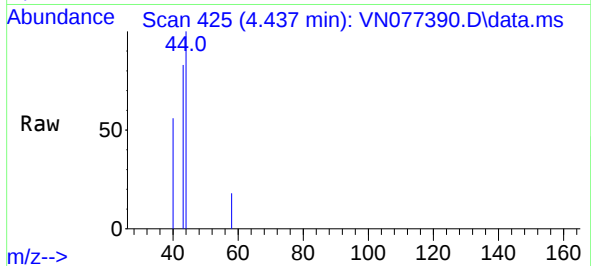




#16
Acetone
Concen: 0.309 ug/l
RT: 4.437 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

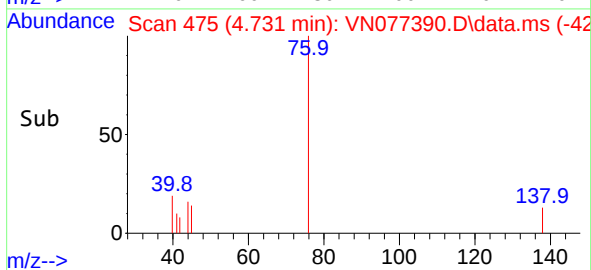
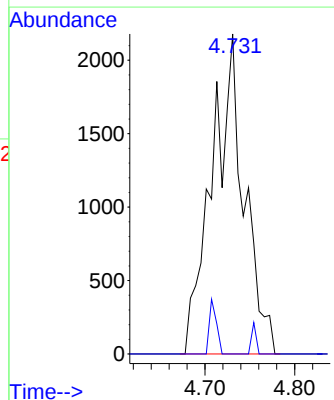
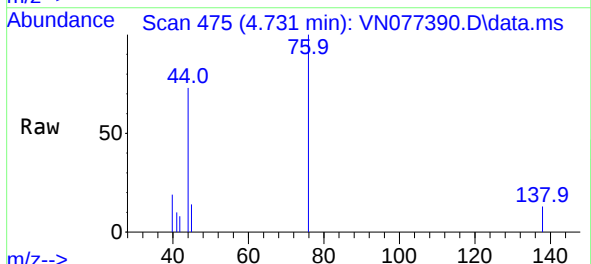
Instrument :
MSVOA_N
ClientSampleId :
VN0420MBL01

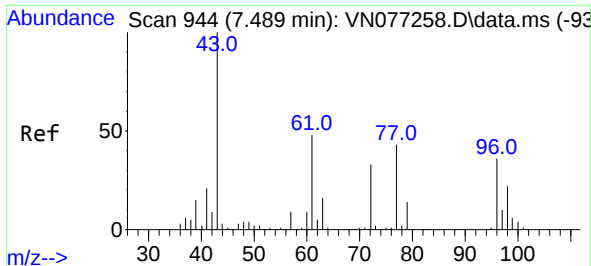
Tgt Ion: 43 Resp: 885
Ion Ratio Lower Upper
43 100
58 21.9 29.0 43.6#



#17
Carbon Disulfide
Concen: 0.302 ug/l
RT: 4.731 min Scan# 475
Delta R.T. 0.006 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion: 76 Resp: 5418
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#

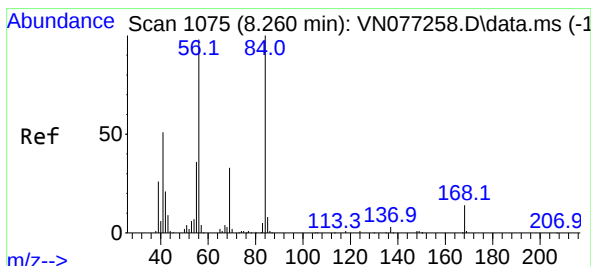
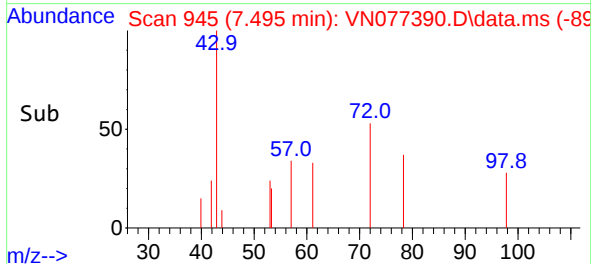
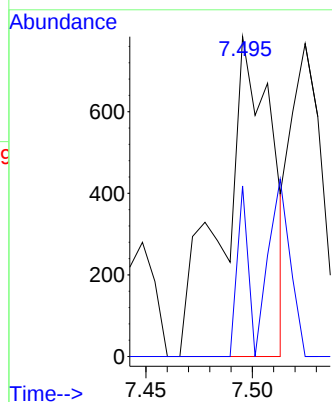
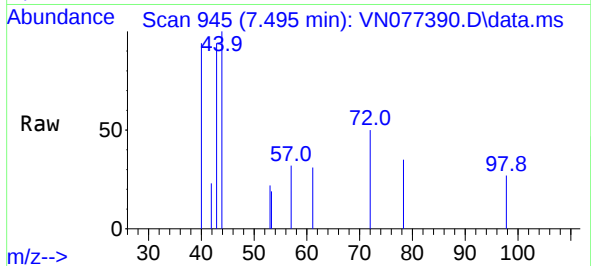




#25
2-Butanone
Concen: 0.272 ug/l
RT: 7.495 min Scan# 944
Delta R.T. 0.006 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

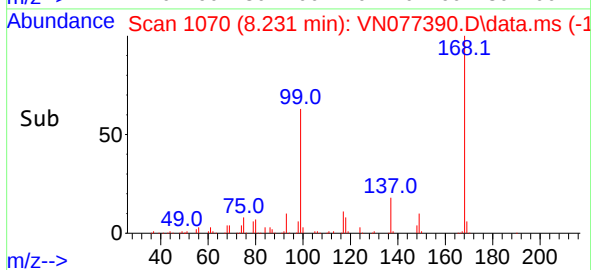
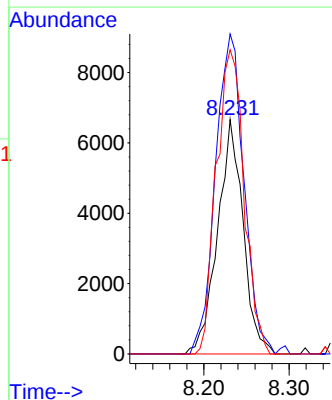
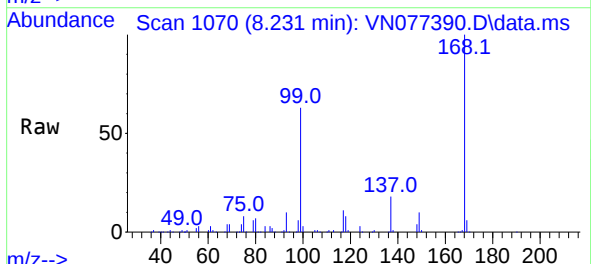
Instrument :
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ClientSampleId :
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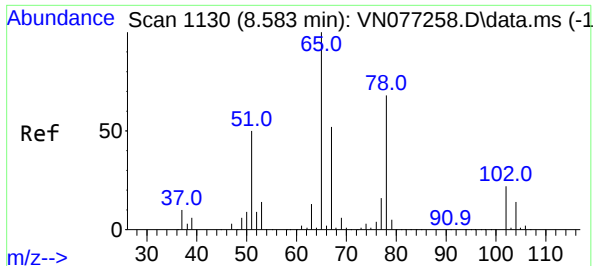
Tgt Ion: 43 Resp: 1264
Ion Ratio Lower Upper
43 100
72 53.3 26.6 39.8#



#31
Cyclohexane
Concen: 1.148 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.029 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion: 56 Resp: 13859
Ion Ratio Lower Upper
56 100
69 136.5 26.6 40.0#
84 129.7 81.8 122.8#

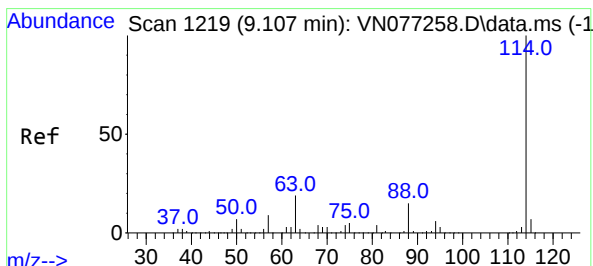
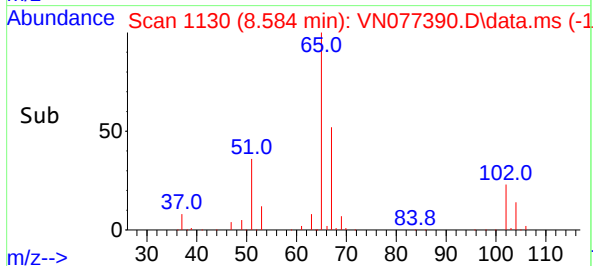
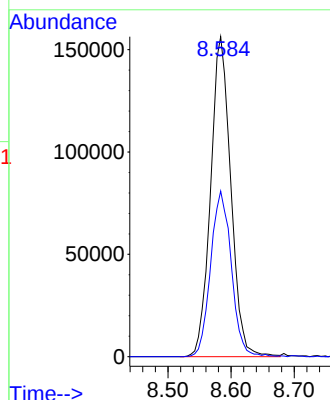
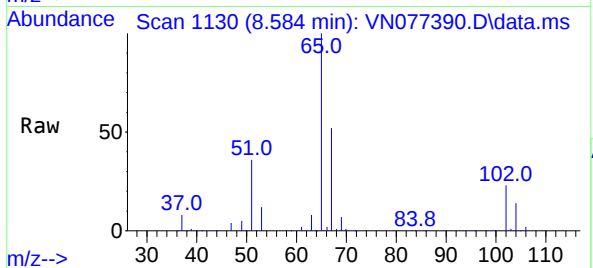




#33
1,2-Dichloroethane-d4
Concen: 44.731 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.001 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

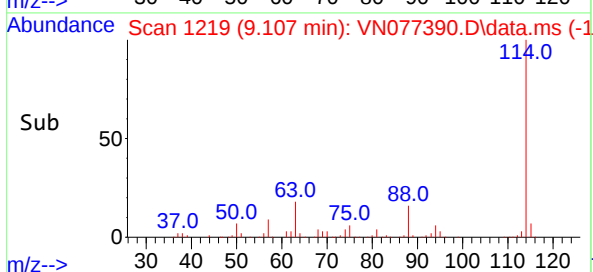
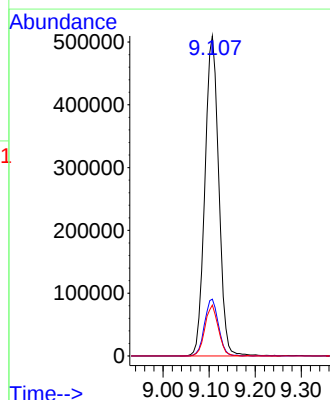
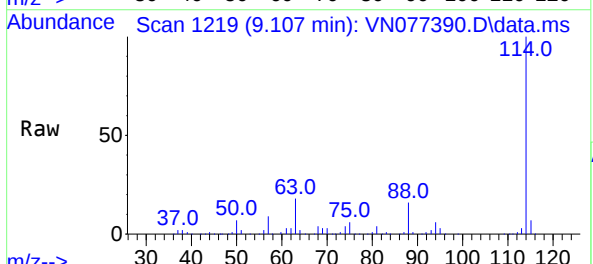
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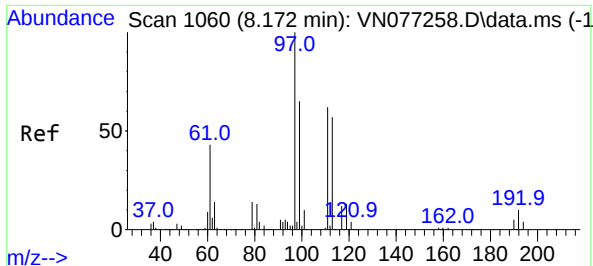
Tgt Ion: 65 Resp: 347588
Ion Ratio Lower Upper
65 100
67 53.1 0.0 108.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 1219
Delta R.T. 0.000 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion:114 Resp: 1068841
Ion Ratio Lower Upper
114 100
63 17.7 0.0 37.8
88 15.9 0.0 29.4

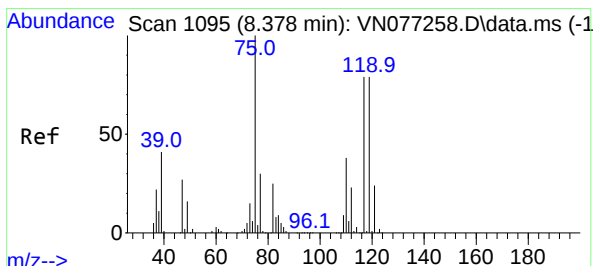
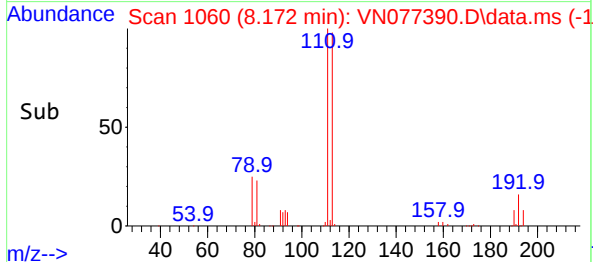
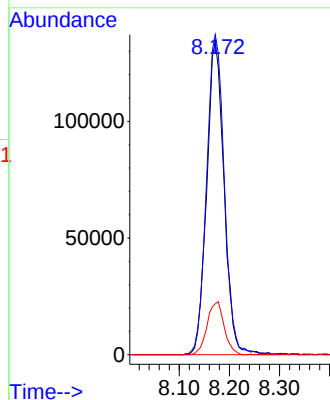
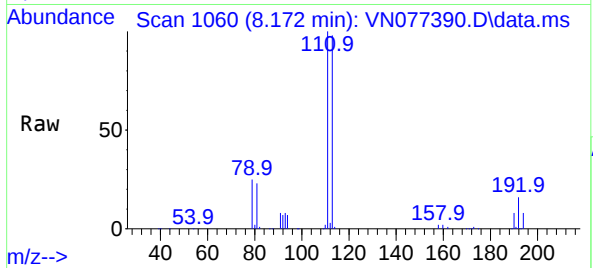




#35
Dibromofluoromethane
Concen: 47.161 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

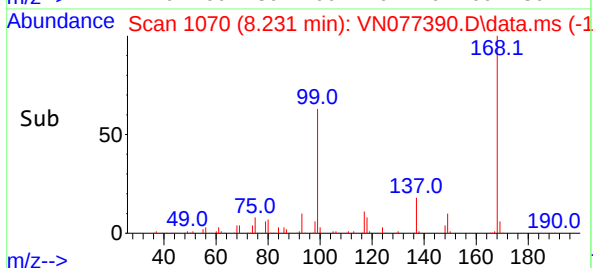
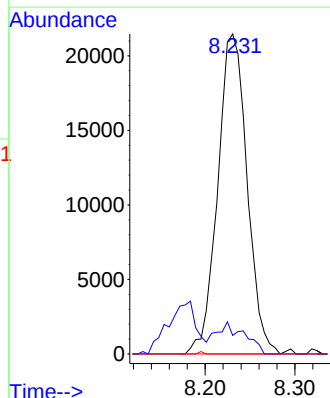
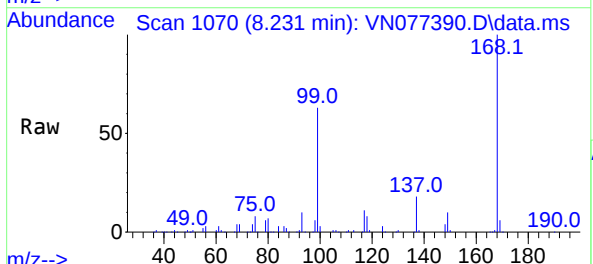
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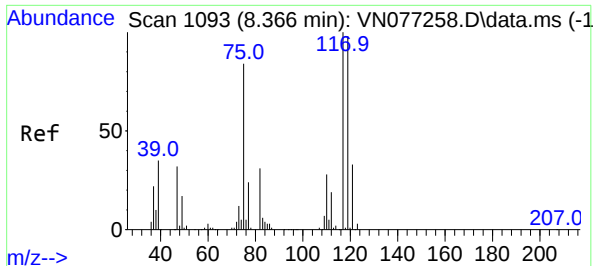
Tgt Ion:113 Resp: 322697
Ion Ratio Lower Upper
113 100
111 104.3 83.4 125.0
192 16.6 13.5 20.3



#36
1,1-Dichloropropene
Concen: 4.816 ug/l
RT: 8.231 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion: 75 Resp: 48733
Ion Ratio Lower Upper
75 100
110 9.7 17.8 53.5#
77 0.0 25.0 37.4#

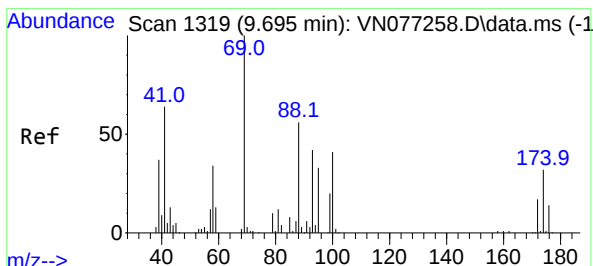
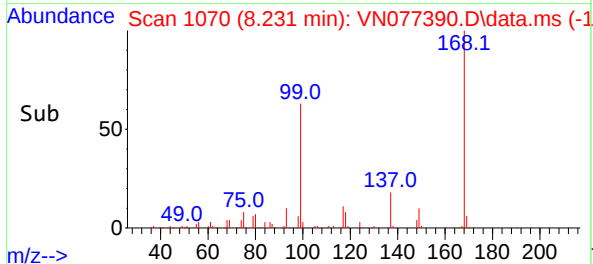
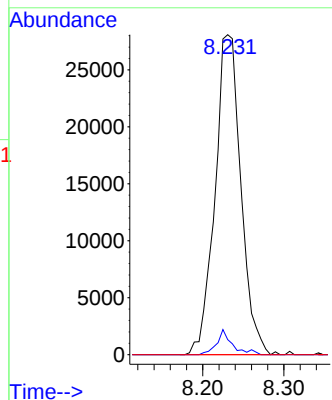
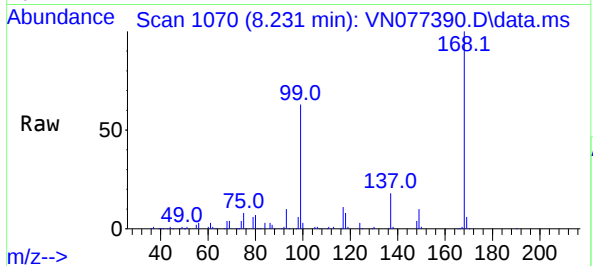




#38
Carbon Tetrachloride
Concen: 6.018 ug/l
RT: 8.231 min Scan# 117
Delta R.T. -0.135 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

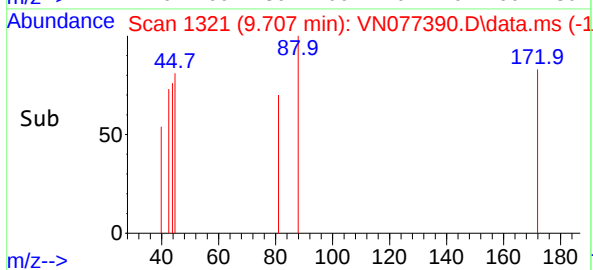
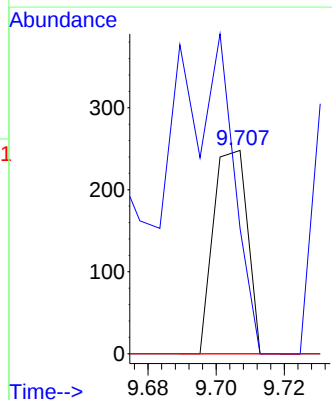
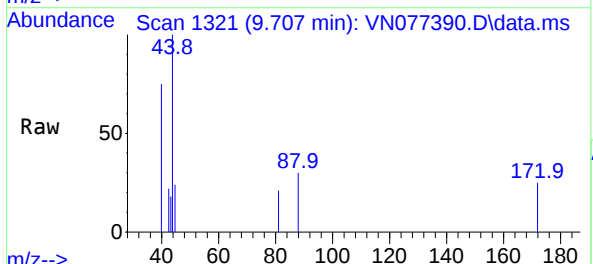
Instrument :
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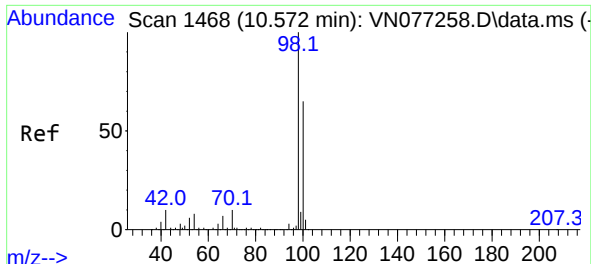
Tgt Ion:117 Resp: 62399
Ion Ratio Lower Upper
117 100
119 4.7 78.5 117.7#
121 0.0 26.6 40.0#



#49
1,4-Dioxane
Concen: 0.995 ug/l
RT: 9.707 min Scan# 1321
Delta R.T. 0.012 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion: 88 Resp: 172
Ion Ratio Lower Upper
88 100
43 237.8 17.0 25.6#
58 0.0 49.8 74.6#

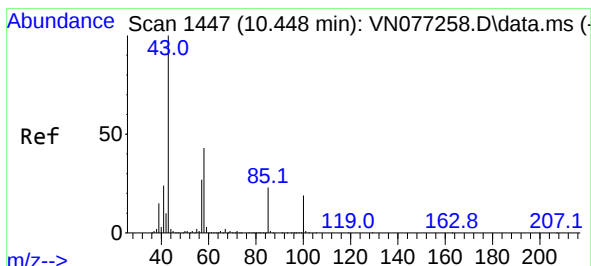
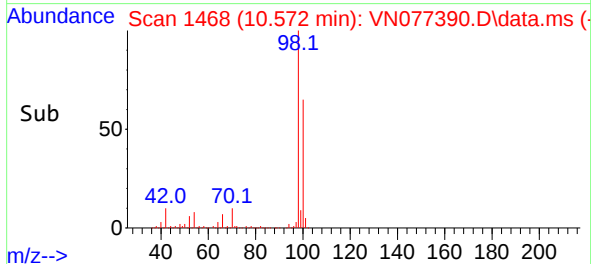
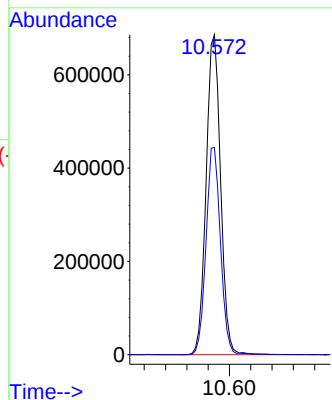
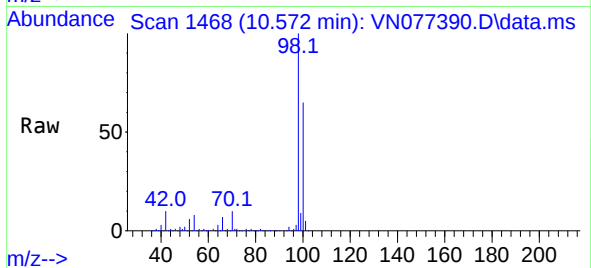




#50
Toluene-d8
Concen: 46.869 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

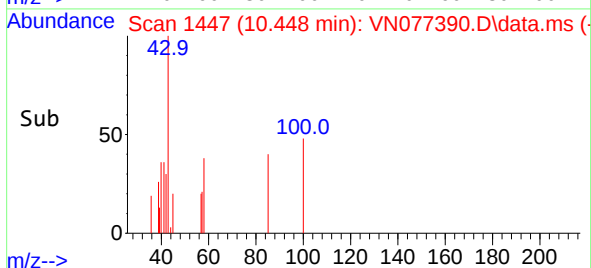
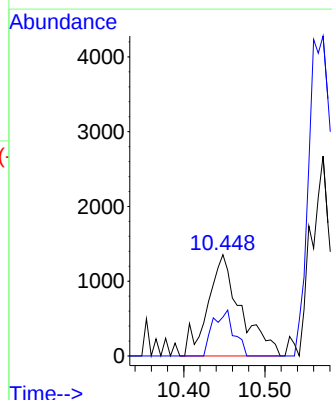
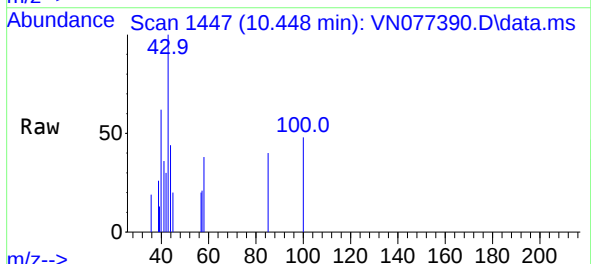
Instrument :
MSVOA_N
ClientSampleId :
VN0420MBL01

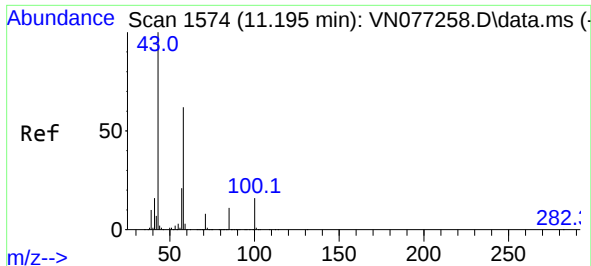
Tgt Ion: 98 Resp: 1291006
Ion Ratio Lower Upper
98 100
100 64.7 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.395 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion: 43 Resp: 3815
Ion Ratio Lower Upper
43 100
58 28.9 34.6 52.0#

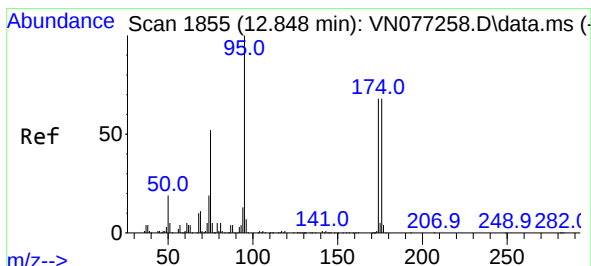
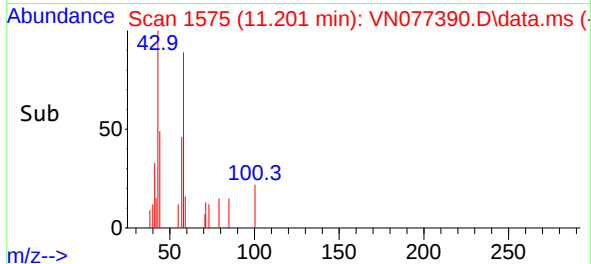
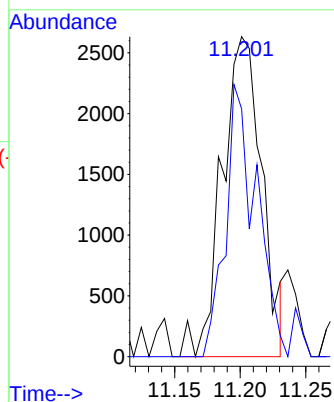
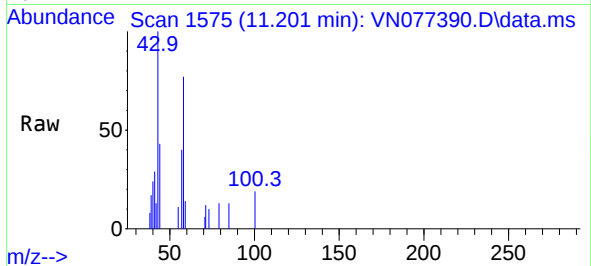




#59
2-Hexanone
Concen: 0.773 ug/l
RT: 11.201 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

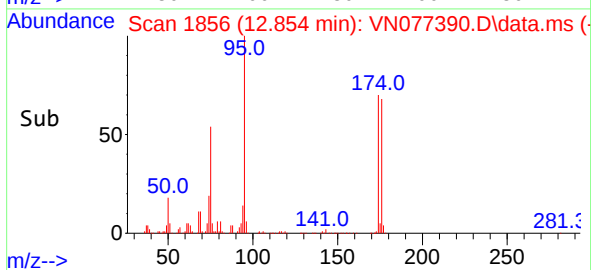
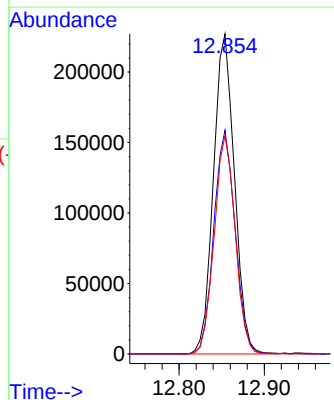
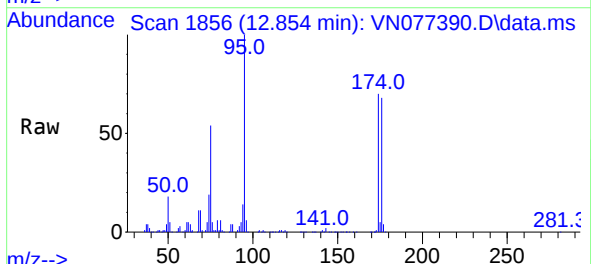
Instrument :
MSVOA_N
ClientSampleId :
VN0420MBL01

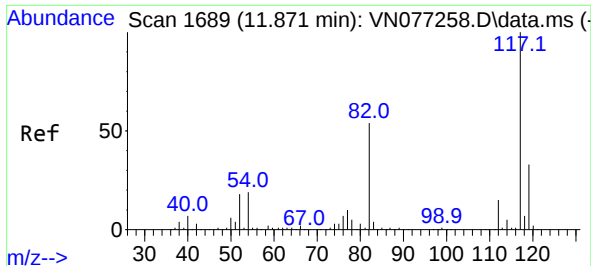
Tgt Ion: 43 Resp: 5561
Ion Ratio Lower Upper
43 100
58 66.0 30.9 92.5



#62
4-Bromofluorobenzene
Concen: 42.608 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion: 95 Resp: 390342
Ion Ratio Lower Upper
95 100
174 70.8 0.0 146.8
176 67.8 0.0 139.6

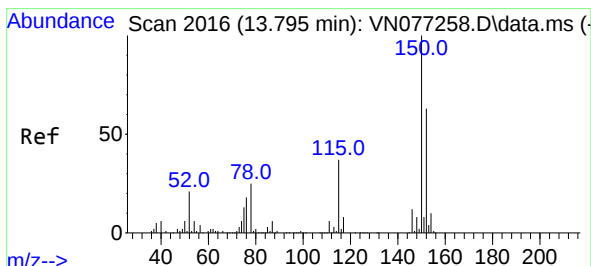
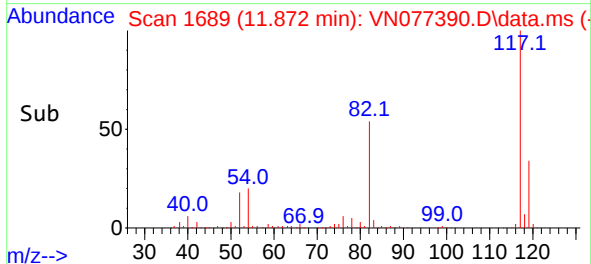
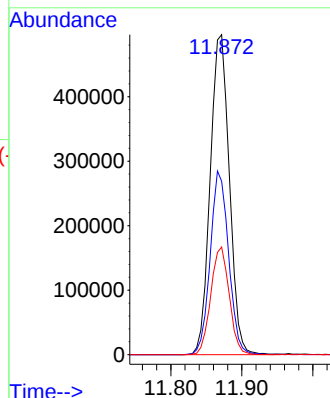
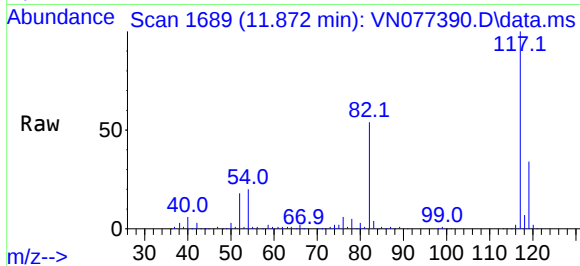




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

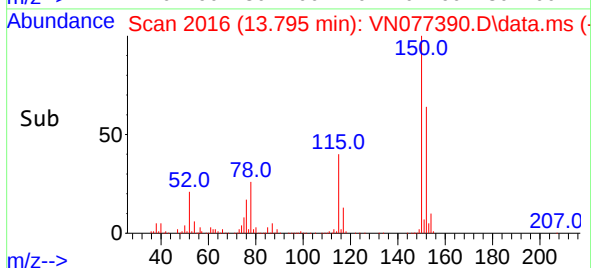
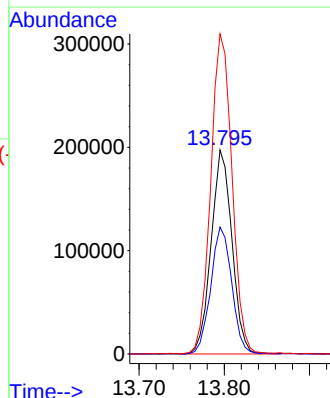
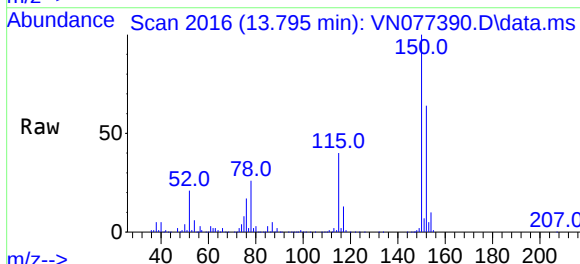
Instrument :
MSVOA_N
ClientSampleId :
VN0420MBL01

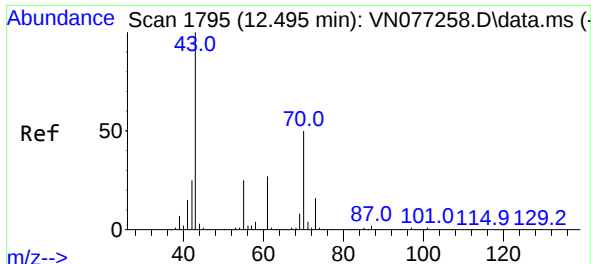
Tgt Ion:117 Resp: 928842
Ion Ratio Lower Upper
117 100
82 54.2 42.9 64.3
119 33.6 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

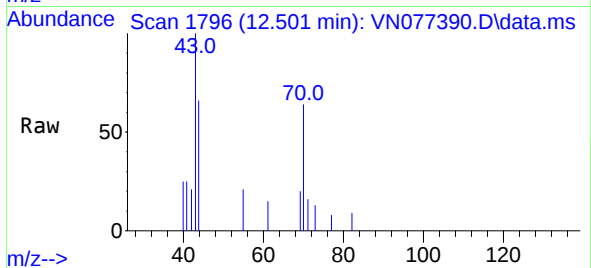
Tgt Ion:152 Resp: 335373
Ion Ratio Lower Upper
152 100
115 62.6 32.1 96.3
150 160.7 0.0 354.8



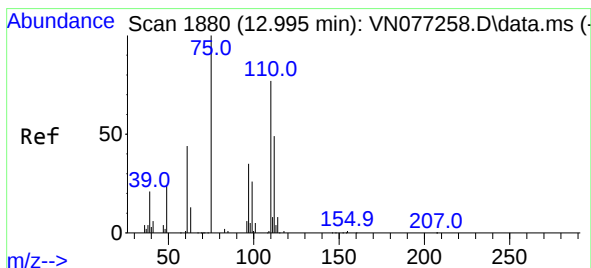
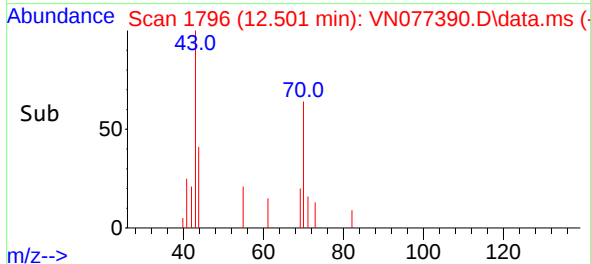
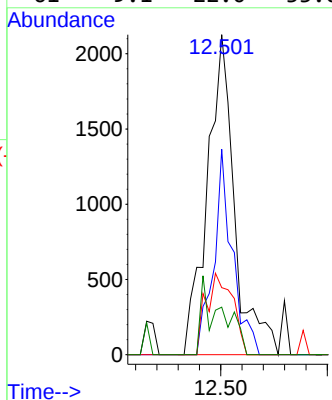


#74
N-amy1 acetate
Concen: 0.308 ug/l
RT: 12.501 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Instrument :
MSVOA_N
ClientSampleId :
VN0420MBL01

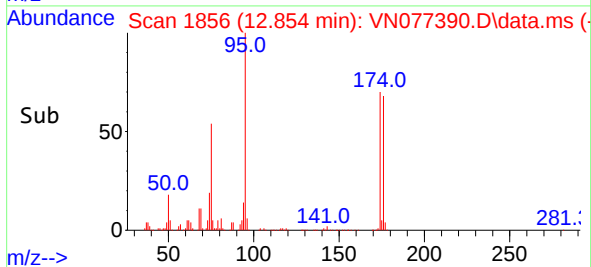
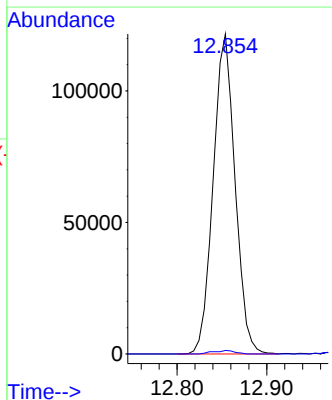
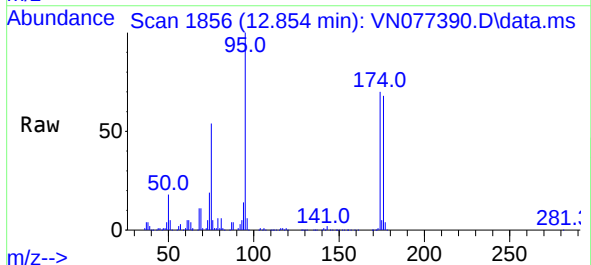


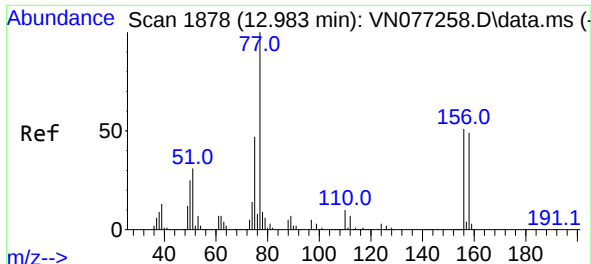
Tgt Ion: 43	Resp: 3801
Ion Ratio	Lower Upper
43 100	
70 43.9	41.0 61.6
55 24.5	19.3 28.9
61 9.1	22.0 33.0#



#76
1,2,3-Trichloropropane
Concen: 25.748 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion: 75	Resp: 205627
Ion Ratio	Lower Upper
75 100	
77 1.1	88.3 264.9#

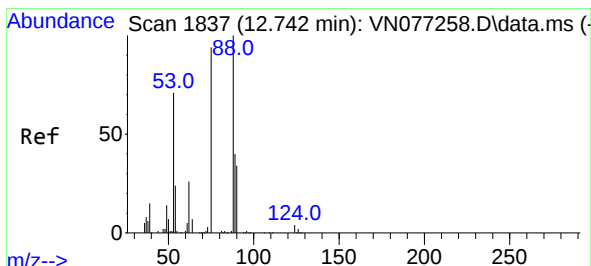
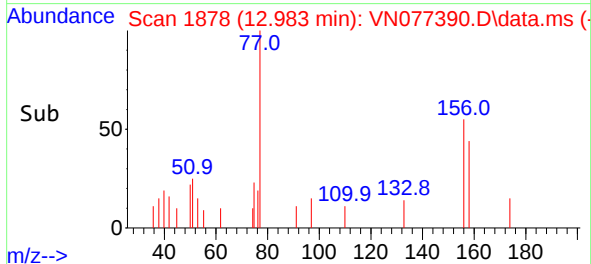
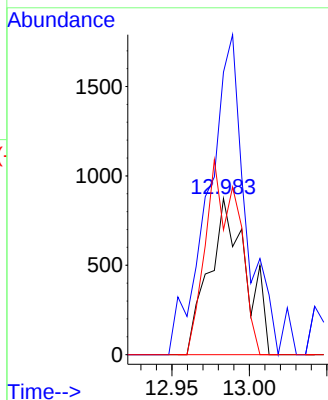
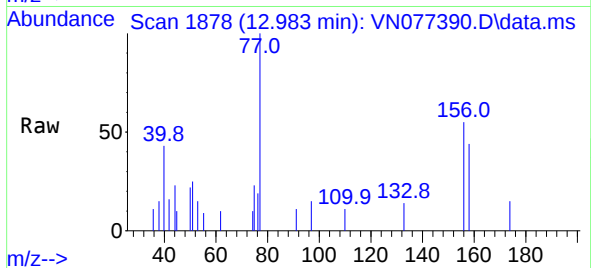




#77
Bromobenzene
Concen: 0.218 ug/l
RT: 12.983 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

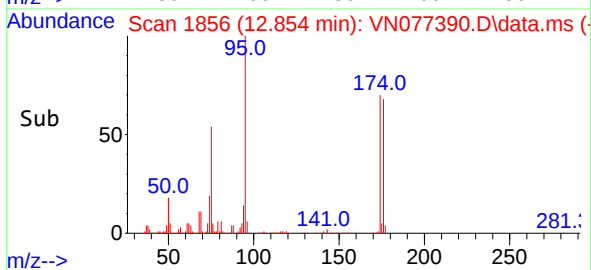
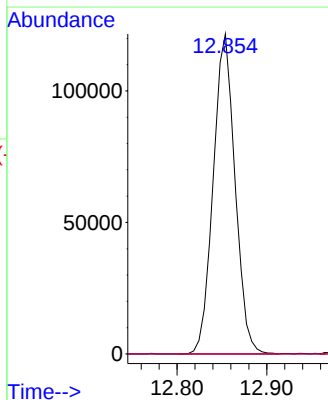
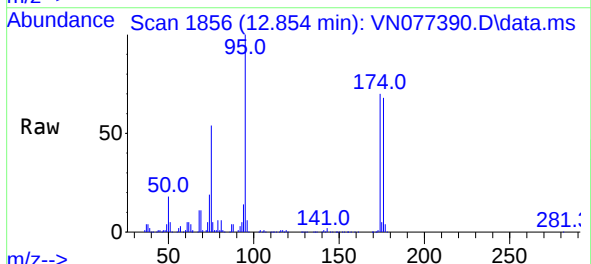
Instrument :
MSVOA_N
ClientSampleId :
VN0420MBL01

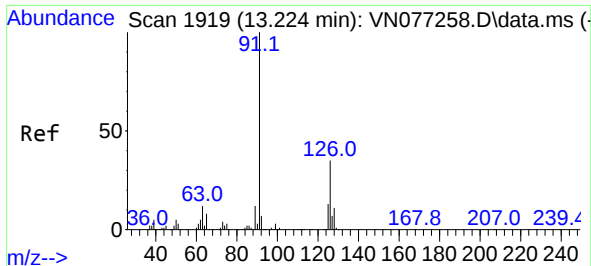
Tgt Ion:156 Resp: 1446
Ion Ratio Lower Upper
156 100
77 215.0 115.3 345.8
158 110.2 49.3 147.8



#81
trans-1,4-Dichloro-2-butene
Concen: 57.942 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion: 75 Resp: 205627
Ion Ratio Lower Upper
75 100
53 0.0 72.8 109.2#
89 0.0 37.4 56.2#

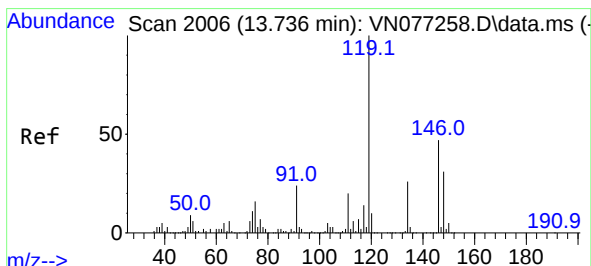
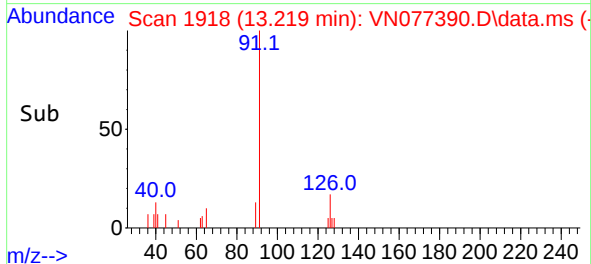
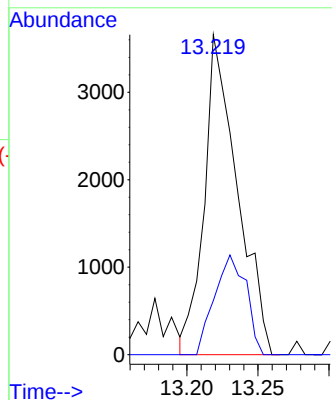
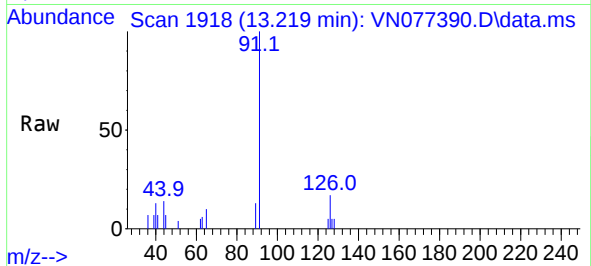




#82
4-Chlorotoluene
Concen: 0.290 ug/l
RT: 13.219 min Scan# 1918
Delta R.T. -0.005 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

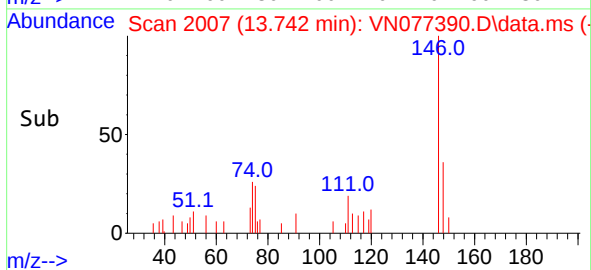
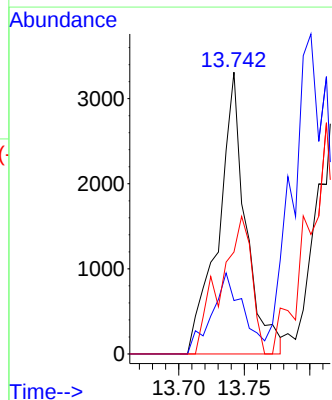
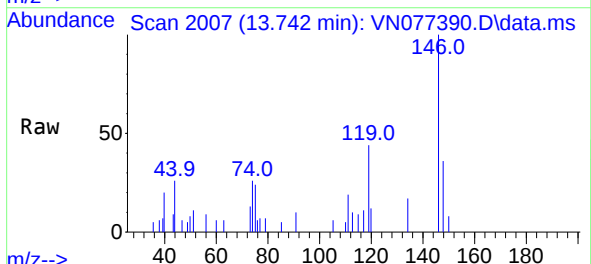
Instrument :
MSVOA_N
ClientSampleId :
VN0420MBL01

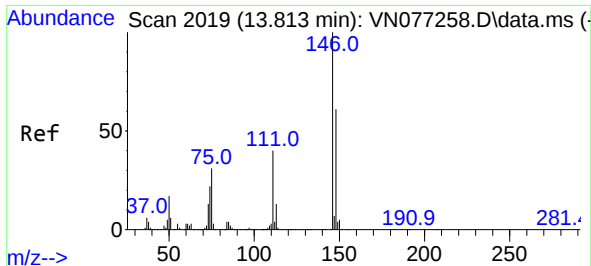
Tgt Ion: 91 Resp: 5924
Ion Ratio Lower Upper
91 100
126 29.7 16.9 50.7



#87
1,3-Dichlorobenzene
Concen: 0.393 ug/l
RT: 13.742 min Scan# 2007
Delta R.T. 0.006 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion: 146 Resp: 4814
Ion Ratio Lower Upper
146 100
111 33.0 21.8 65.4
148 55.1 31.7 95.1

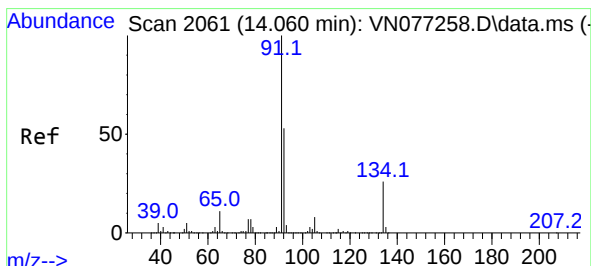
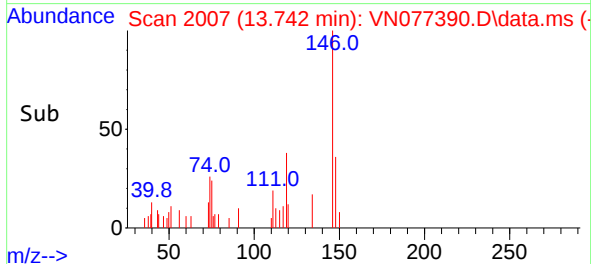
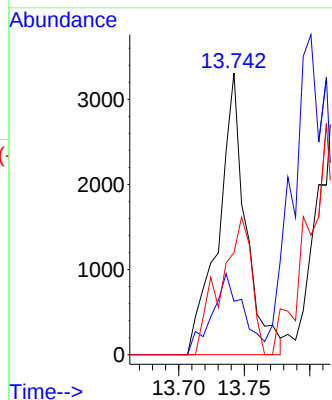
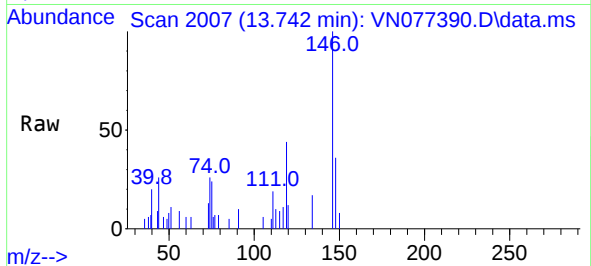




#88
1,4-Dichlorobenzene
Concen: 0.398 ug/l
RT: 13.742 min Scan# 2007
Delta R.T. -0.071 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

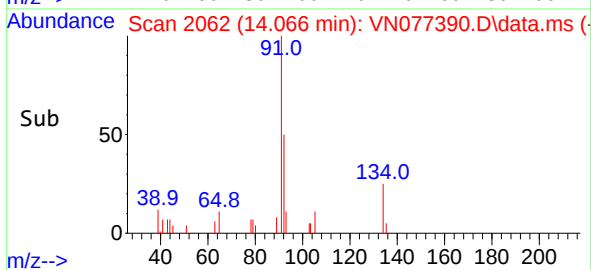
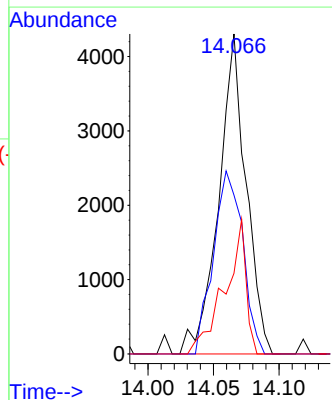
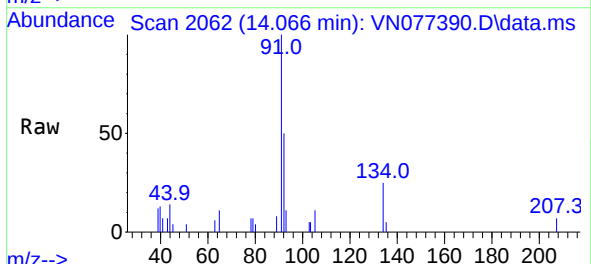
Instrument :
MSVOA_N
ClientSampleId :
VN0420MBL01

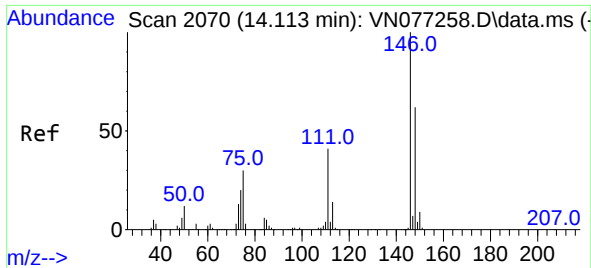
Tgt Ion:	146	Resp:	4814
Ion	Ratio	Lower	Upper
146	100		
111	33.0	20.4	61.2
148	55.1	31.6	95.0



#89
n-Butylbenzene
Concen: 0.297 ug/l
RT: 14.066 min Scan# 2062
Delta R.T. 0.006 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion:	91	Resp:	6249
Ion	Ratio	Lower	Upper
91	100		
92	61.2	26.7	80.0
134	32.6	12.8	38.3

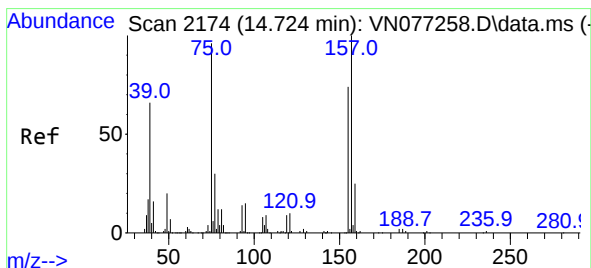
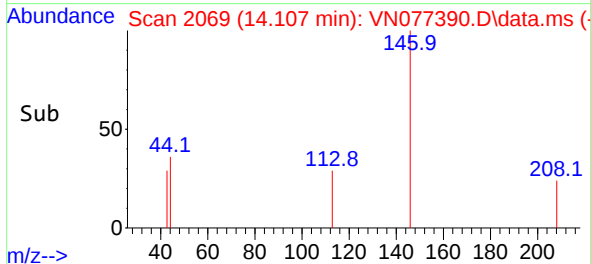
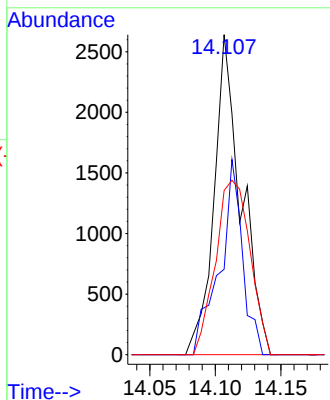
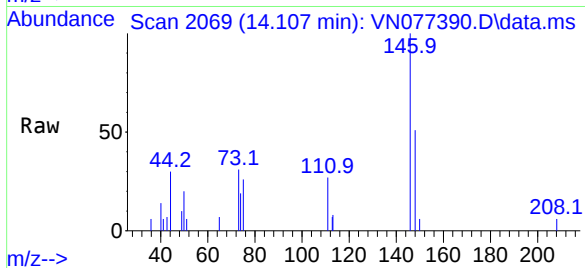




#91
1,2-Dichlorobenzene
Concen: 0.309 ug/l
RT: 14.107 min Scan# 2069
Delta R.T. -0.006 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

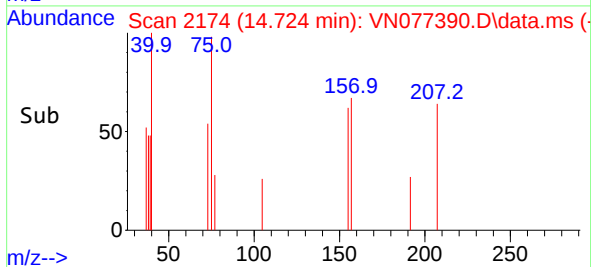
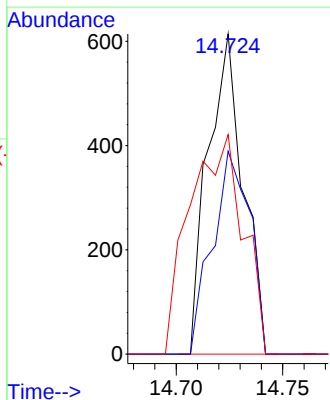
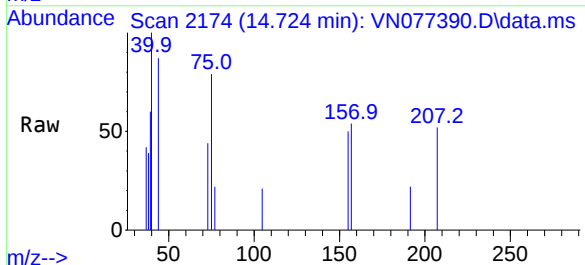
Instrument :
MSVOA_N
ClientSampleId :
VN0420MBL01

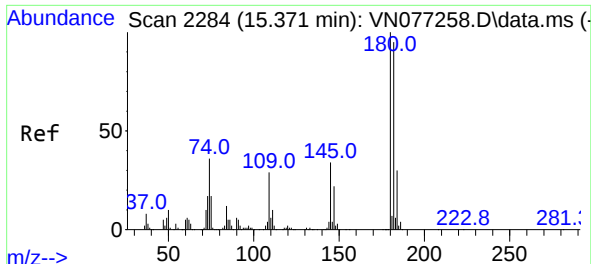
Tgt Ion:	146	Resp:	3787
Ion	Ratio	Lower	Upper
146	100		
111	51.2	21.9	65.5
148	69.7	31.9	95.5



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.364 ug/l
RT: 14.724 min Scan# 2174
Delta R.T. 0.000 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion:	75	Resp:	705
Ion	Ratio	Lower	Upper
75	100		
155	67.5	41.0	123.2
157	104.5	54.0	162.0

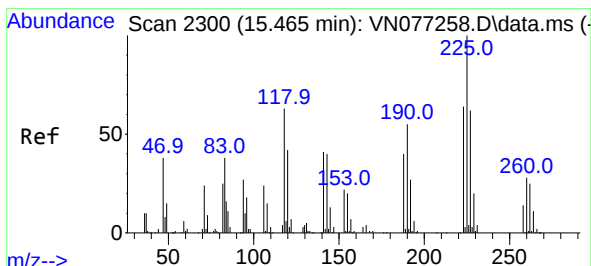
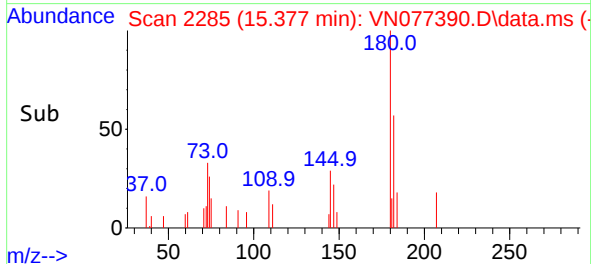
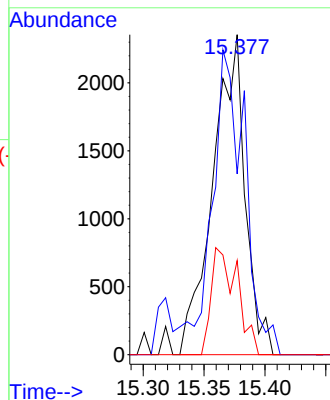
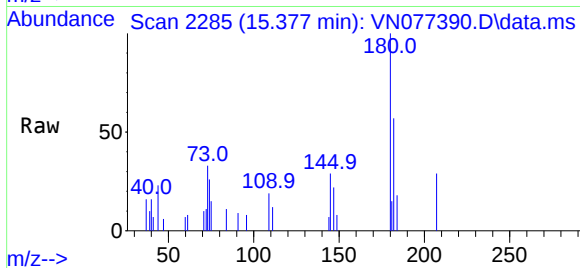




#93
 1,2,4-Trichlorobenzene
 Concen: 0.982 ug/l
 RT: 15.377 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN077390.D
 Acq: 20 Apr 2023 10:56

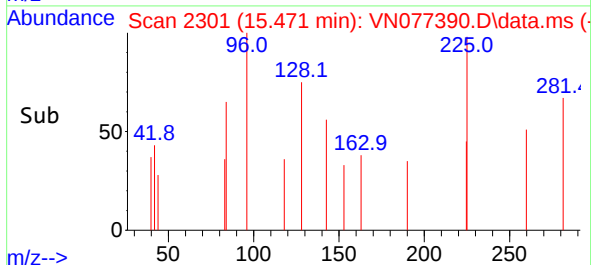
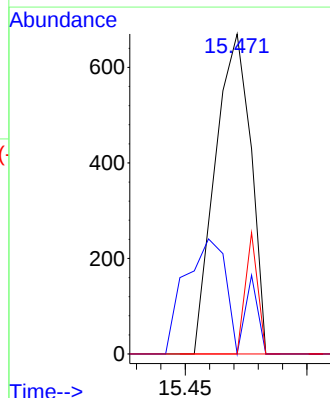
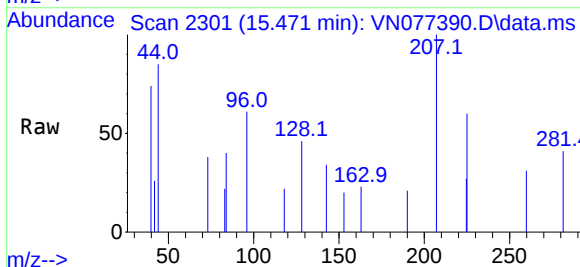
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0420MBL01

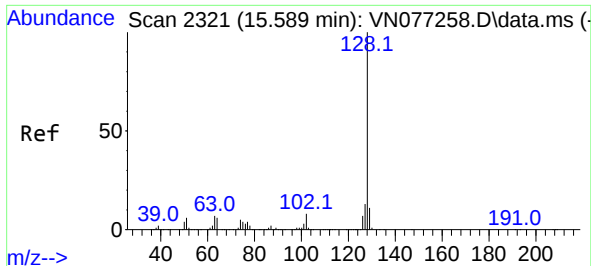
Tgt Ion:180	Resp:	4346
Ion Ratio	Lower	Upper
180	100	
182	95.7	46.7 140.0
145	26.9	16.6 49.8



#94
 Hexachlorobutadiene
 Concen: 0.265 ug/l
 RT: 15.471 min Scan# 2301
 Delta R.T. 0.006 min
 Lab File: VN077390.D
 Acq: 20 Apr 2023 10:56

Tgt Ion:225	Resp:	680
Ion Ratio	Lower	Upper
225	100	
223	49.3	31.7 95.1
227	13.2	31.2 93.6

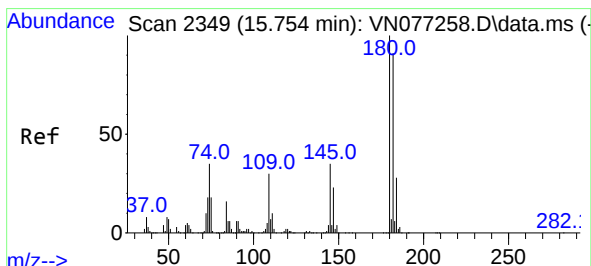
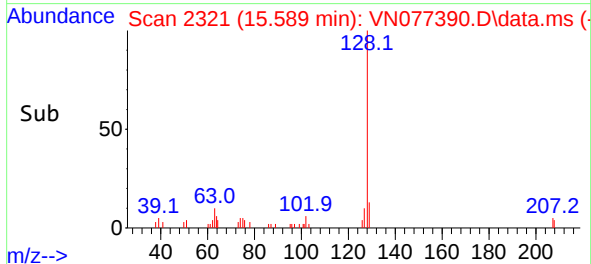
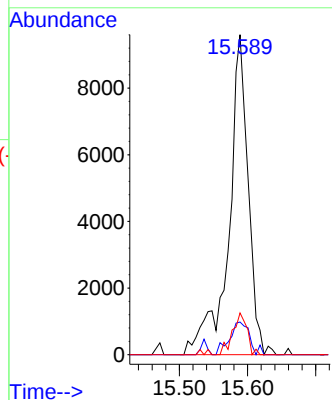
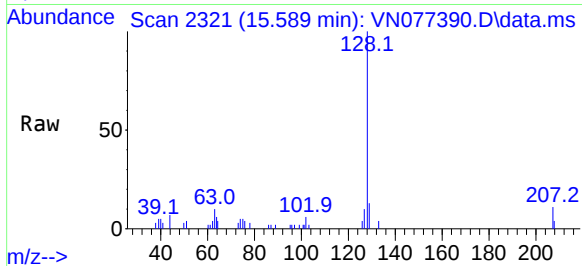




#95
Naphthalene
Concen: 1.148 ug/l
RT: 15.589 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Instrument :
MSVOA_N
ClientSampleId :
VN0420MBL01

Tgt Ion:	128	Resp:	19090
Ion	Ratio	Lower	Upper
128	100		
127	10.6	10.2	15.4
129	9.7	8.9	13.3



#96
1,2,3-Trichlorobenzene
Concen: 1.096 ug/l
RT: 15.760 min Scan# 2350
Delta R.T. 0.006 min
Lab File: VN077390.D
Acq: 20 Apr 2023 10:56

Tgt Ion:	180	Resp:	4641
Ion	Ratio	Lower	Upper
180	100		
182	97.9	46.9	140.8
145	36.2	17.6	52.8

