

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
 Data File : VN084455.D
 Acq On : 22 Oct 2024 15:09
 Operator : JC\MD
 Sample : P4475-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-190-GW-238-240

Quant Time: Oct 23 01:29:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

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

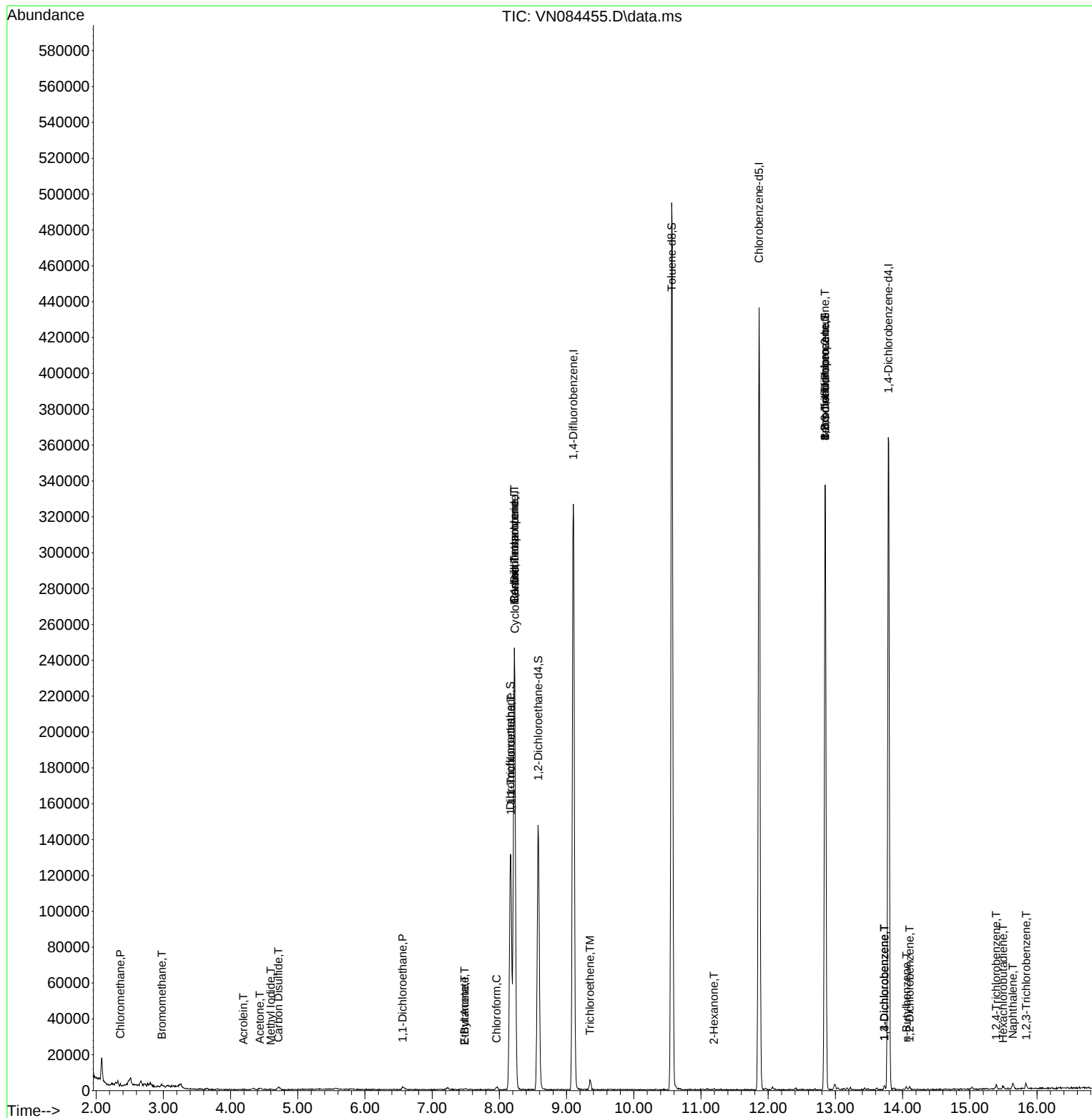
Internal Standards						
1) Pentafluorobenzene	8.224	168	173757	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	291051	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	247138	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	100728	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	119376	46.337	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.680%		
35) Dibromofluoromethane	8.165	113	96300	50.188	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.380%		
50) Toluene-d8	10.565	98	345288	48.912	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.820%		
62) 4-Bromofluorobenzene	12.847	95	119367	46.413	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	92.820%		
Target Compounds					Qvalue	
3) Chloromethane	2.359	50	534	0.228	ug/l #	57
5) Bromomethane	2.977	94	802	0.535	ug/l #	50
10) Methyl Iodide	4.600	142	617	0.236	ug/l #	40
13) Acrolein	4.189	56	248	0.509	ug/l #	14
16) Acetone	4.436	43	1198	1.082	ug/l #	44
17) Carbon Disulfide	4.712	76	2430	0.392	ug/l #	75
24) 1,1-Dichloroethane	6.559	63	1487	0.378	ug/l #	83
25) 2-Butanone	7.482	43	811	0.538	ug/l #	48
30) Chloroform	7.959	83	1283	0.314	ug/l #	77
31) Cyclohexane	8.230	56	4054	1.062	ug/l #	1
32) 1,1,1-Trichloroethane	8.171	97	1261	0.344	ug/l #	23
36) 1,1-Dichloropropene	8.224	75	14929	5.356	ug/l #	49
37) Ethyl Acetate	7.482	43	811	0.284	ug/l #	78
38) Carbon Tetrachloride	8.224	117	19021	6.221	ug/l #	13
44) Trichloroethene	9.347	130	2227	1.098	ug/l	79
59) 2-Hexanone	11.194	43	444	0.218	ug/l	64
71) Bromoform	12.847	173	988	0.711	ug/l #	30
76) 1,2,3-Trichloropropane	12.847	75	60680	29.508	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	60680	70.744	ug/l #	11
87) 1,3-Dichlorobenzene	13.729	146	1009	0.290	ug/l	96
88) 1,4-Dichlorobenzene	13.729	146	1009	0.287	ug/l	97
89) n-Butylbenzene	14.059	91	1135	0.204	ug/l	79
91) 1,2-Dichlorobenzene	14.106	146	850	0.249	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	1254	0.746	ug/l #	77
94) Hexachlorobutadiene	15.494	225	708	0.845	ug/l #	49
95) Naphthalene	15.641	128	3689	0.662	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.841	180	1113	0.662	ug/l	77

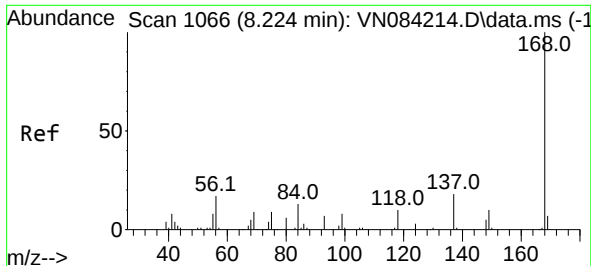
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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BP-VPB-190-GW-238-240

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Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

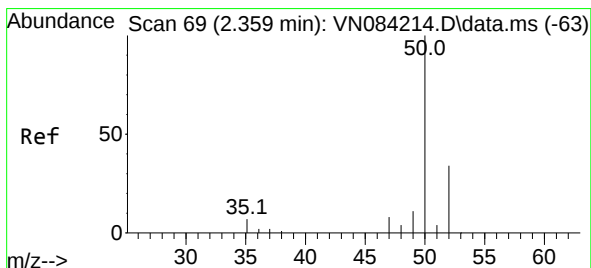
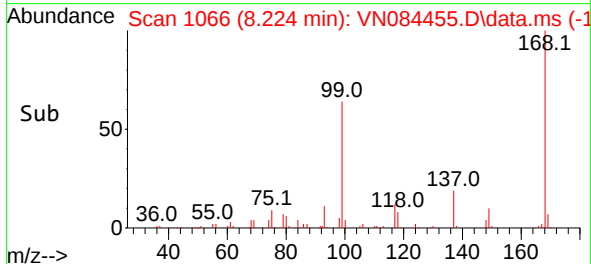
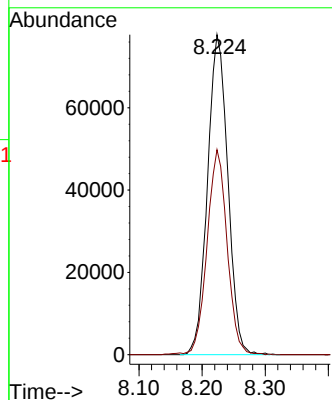
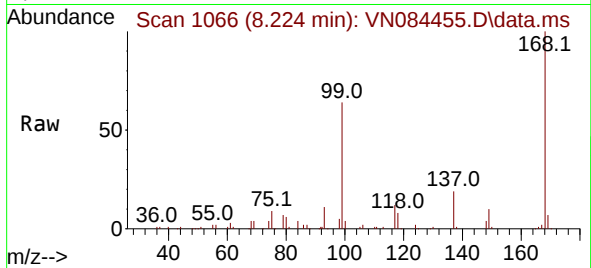




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

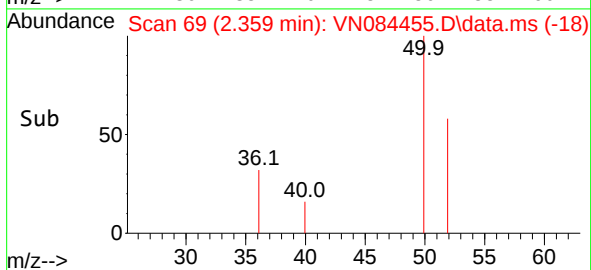
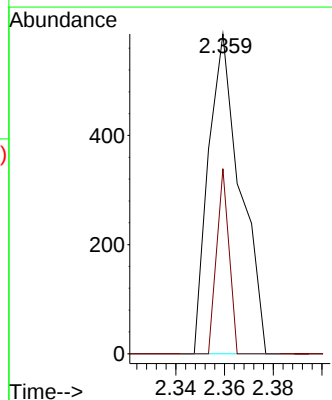
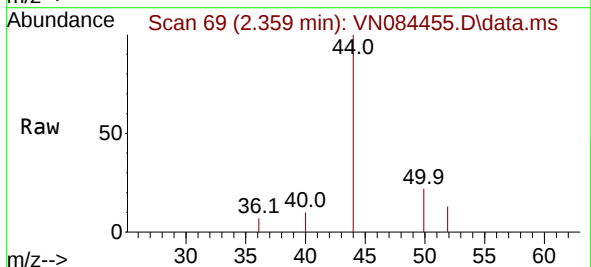
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-238-240

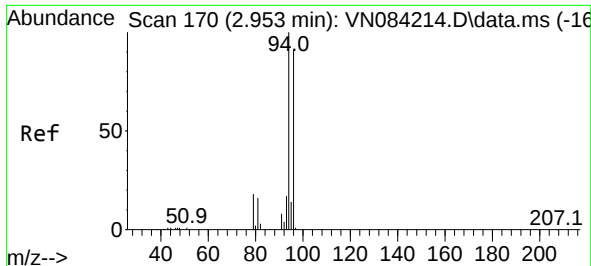
Tgt Ion:168 Resp: 173757
Ion Ratio Lower Upper
168 100
99 64.0 54.2 81.2



#3
Chloromethane
Concen: 0.228 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

Tgt Ion: 50 Resp: 534
Ion Ratio Lower Upper
50 100
52 57.8 26.8 40.2#

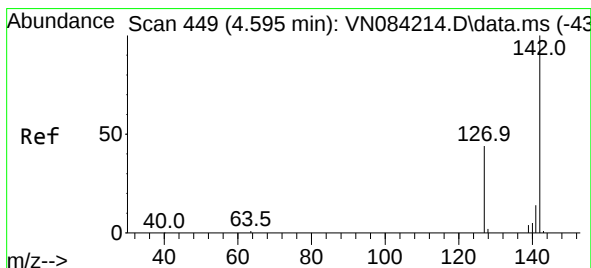
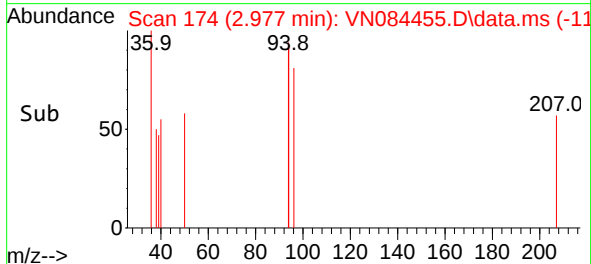
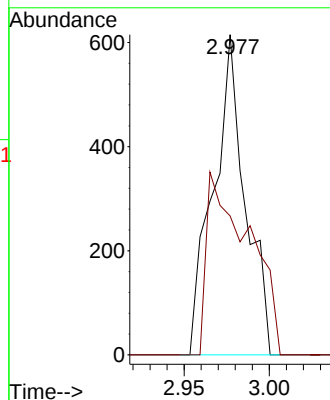
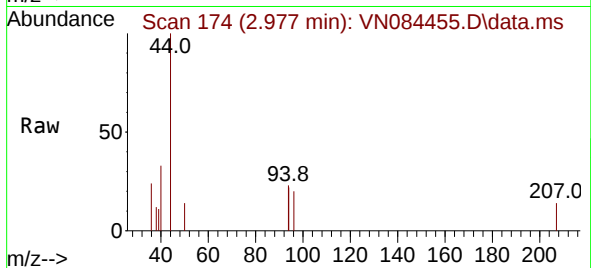




#5
Bromomethane
Concen: 0.535 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

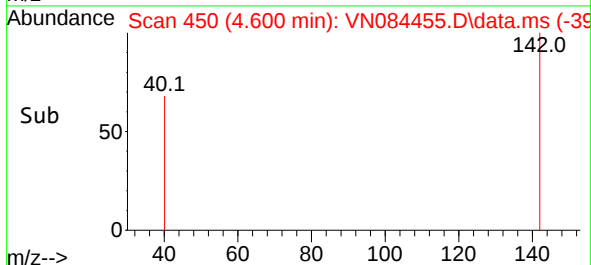
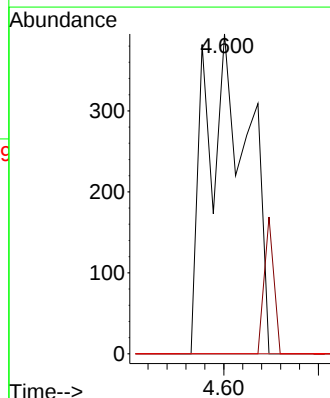
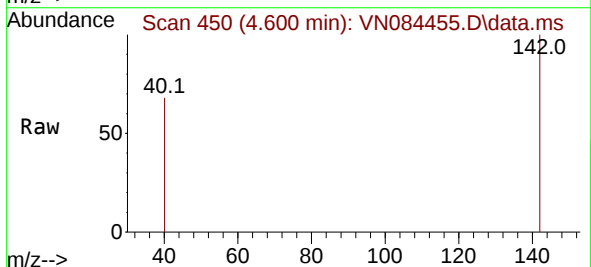
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-238-240

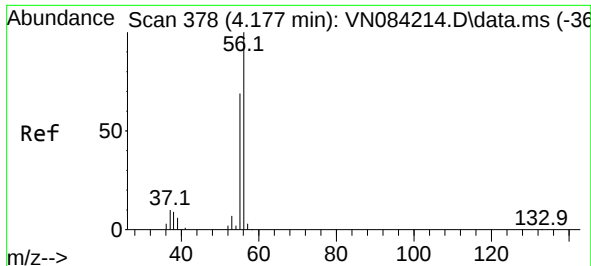
Tgt Ion: 94 Resp: 802
Ion Ratio Lower Upper
94 100
96 43.4 72.9 109.3#



#10
Methyl Iodide
Concen: 0.236 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.006 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

Tgt Ion: 142 Resp: 617
Ion Ratio Lower Upper
142 100
127 0.0 35.3 52.9#
141 0.0 11.0 16.6#

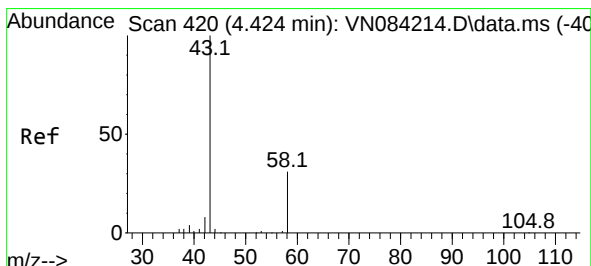
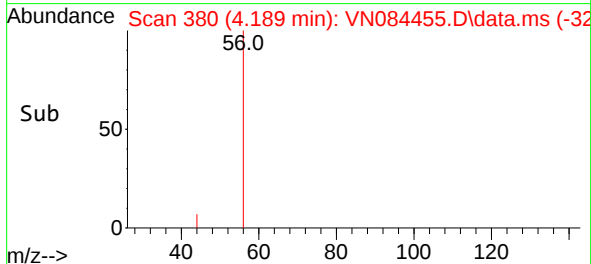
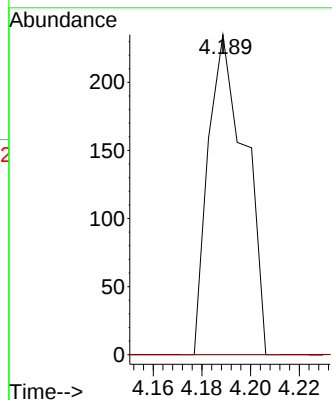
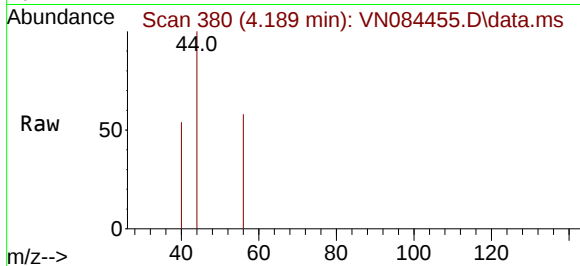




#13
Acrolein
Concen: 0.509 ug/l
RT: 4.189 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

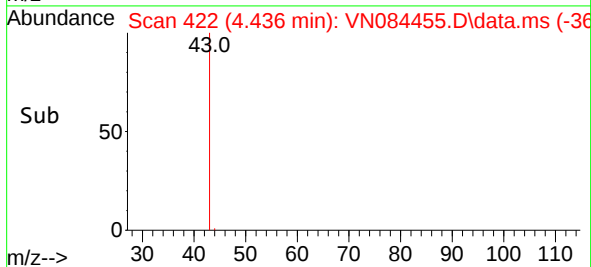
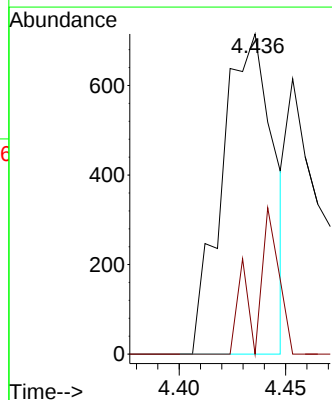
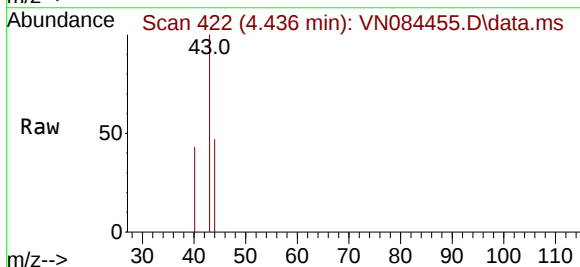
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-238-240

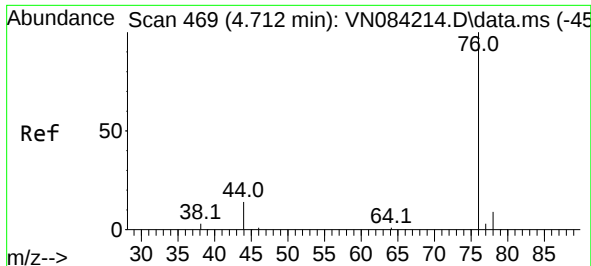
Tgt Ion: 56 Resp: 248
Ion Ratio Lower Upper
56 100
55 0.0 57.2 85.8#



#16
Acetone
Concen: 1.082 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

Tgt Ion: 43 Resp: 1198
Ion Ratio Lower Upper
43 100
58 0.0 24.4 36.6#

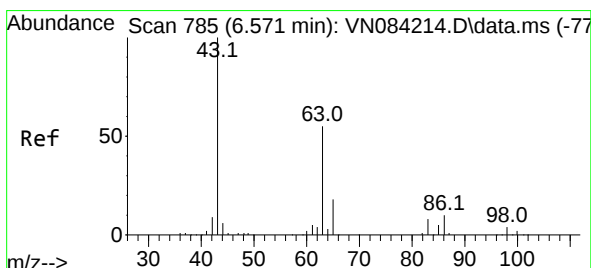
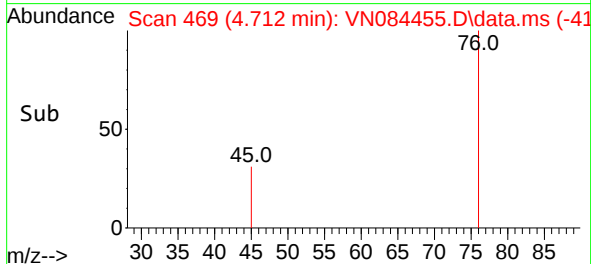
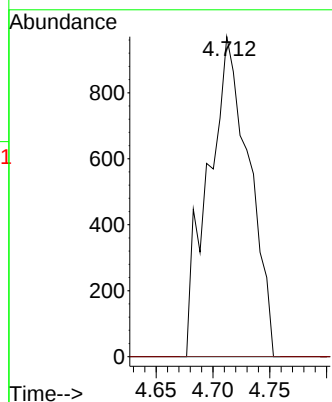
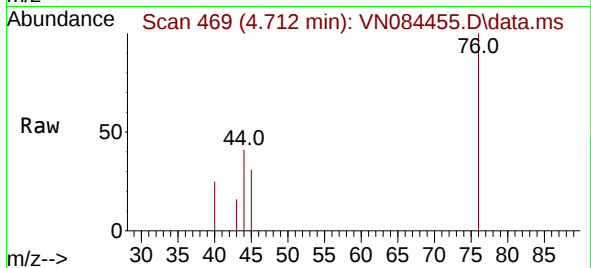




#17
Carbon Disulfide
Concen: 0.392 ug/l
RT: 4.712 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

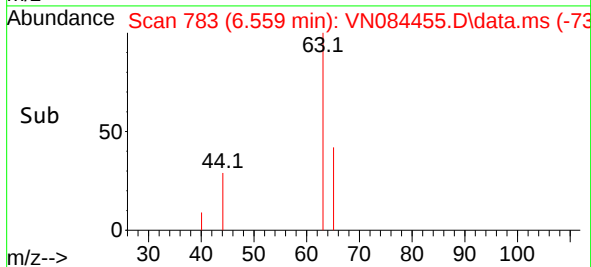
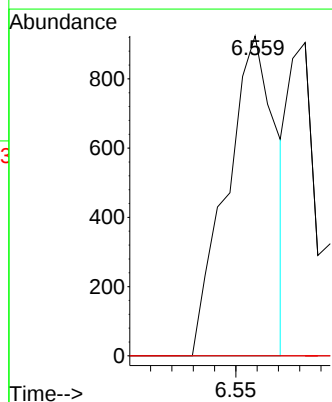
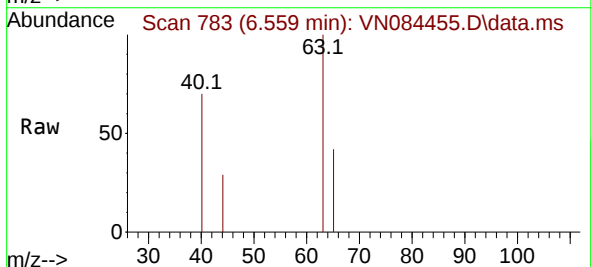
Instrument :
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ClientSampleId :
BP-VPB-190-GW-238-240

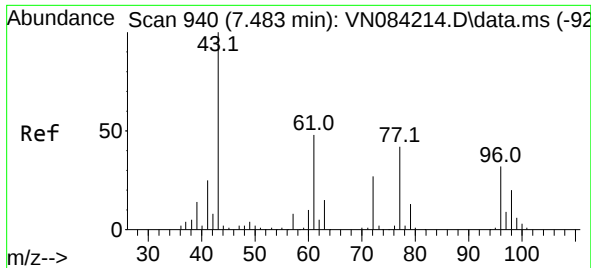
Tgt Ion: 76 Resp: 2430
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#24
1,1-Dichloroethane
Concen: 0.378 ug/l
RT: 6.559 min Scan# 783
Delta R.T. -0.012 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

Tgt Ion: 63 Resp: 1487
Ion Ratio Lower Upper
63 100
98 0.0 3.4 10.2#
100 0.0 2.0 5.8#

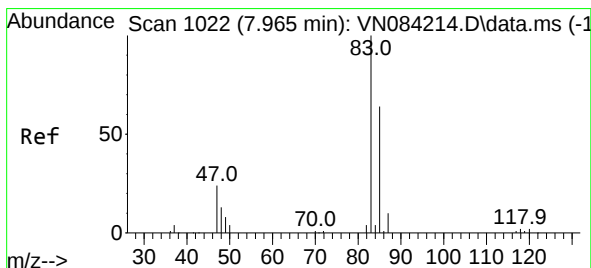
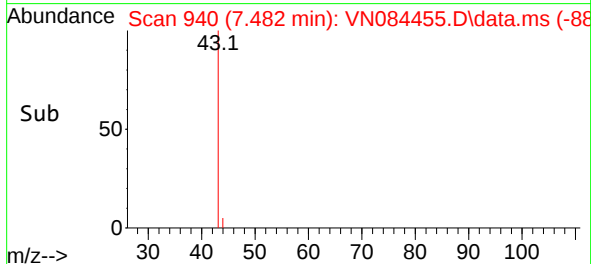
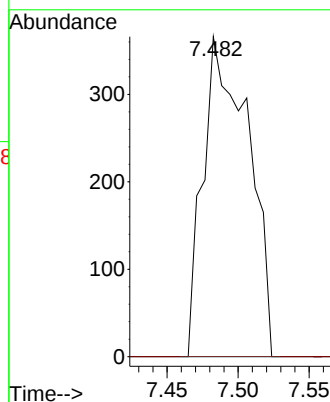
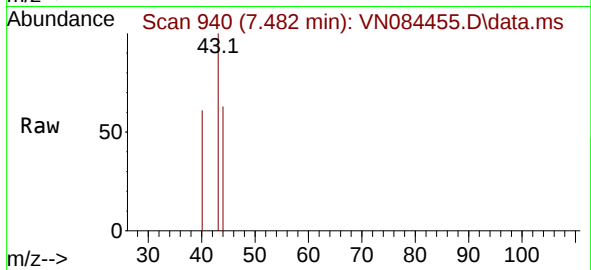




#25
2-Butanone
Concen: 0.538 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

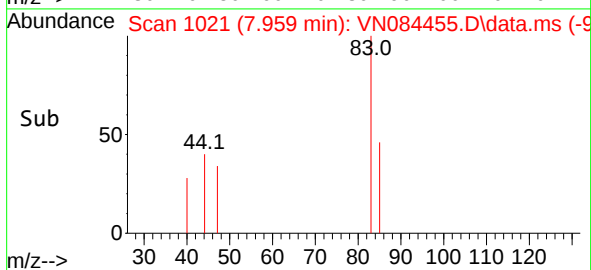
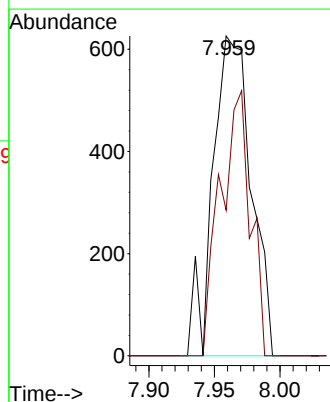
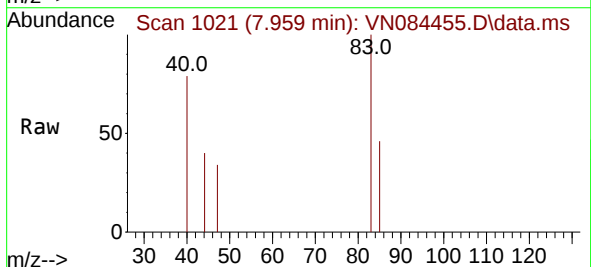
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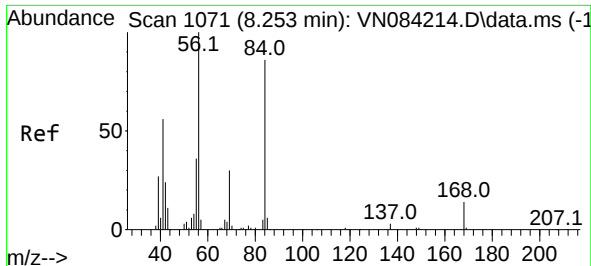
Tgt Ion: 43 Resp: 811
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#



#30
Chloroform
Concen: 0.314 ug/l
RT: 7.959 min Scan# 1021
Delta R.T. -0.006 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

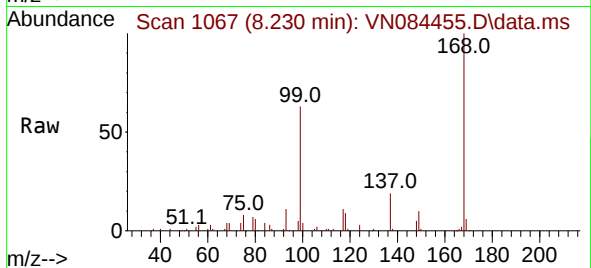
Tgt Ion: 83 Resp: 1283
Ion Ratio Lower Upper
83 100
85 45.5 51.0 76.4#



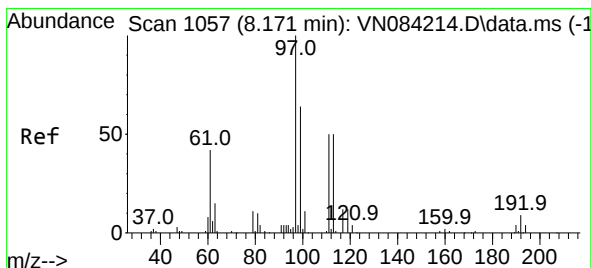
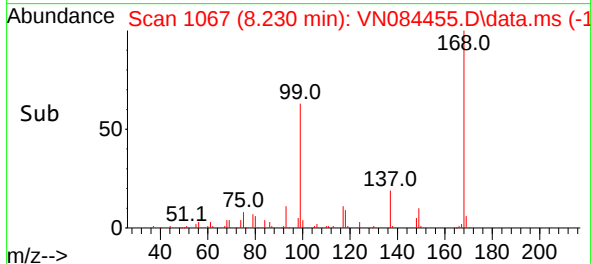
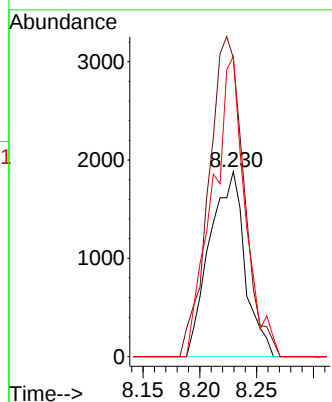


#31
Cyclohexane
Concen: 1.062 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.024 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

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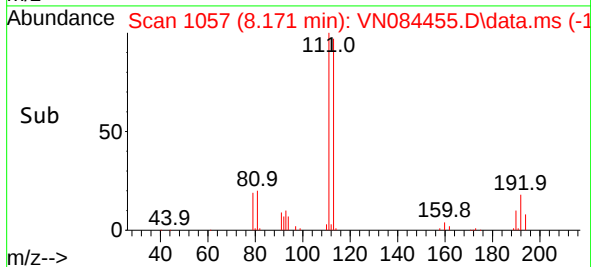
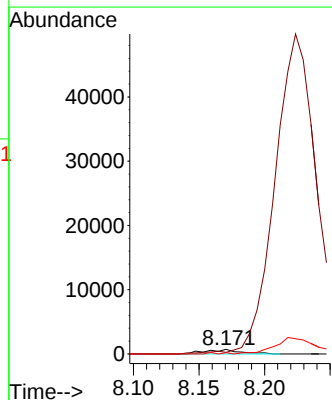
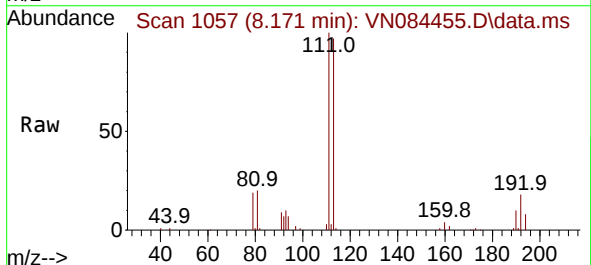


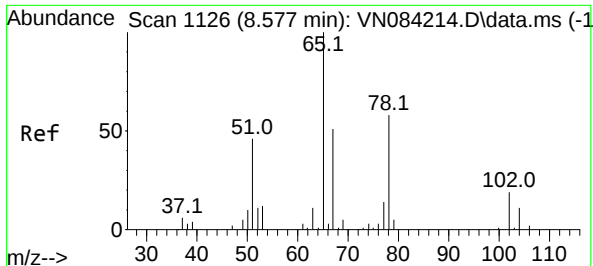
Tgt Ion: 56 Resp: 4054
Ion Ratio Lower Upper
56 100
69 161.3 23.8 35.6#
84 162.1 68.8 103.2#



#32
1,1,1-Trichloroethane
Concen: 0.344 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

Tgt Ion: 97 Resp: 1261
Ion Ratio Lower Upper
97 100
99 0.0 51.2 76.8#
61 0.0 37.5 56.3#





#33

1,2-Dichloroethane-d4

Concen: 46.337 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084455.D

Acq: 22 Oct 2024 15:09

Instrument :

MSVOA_N

ClientSampleId :

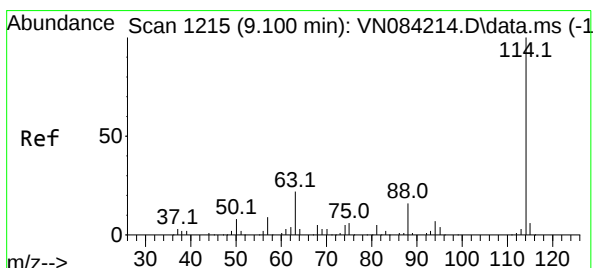
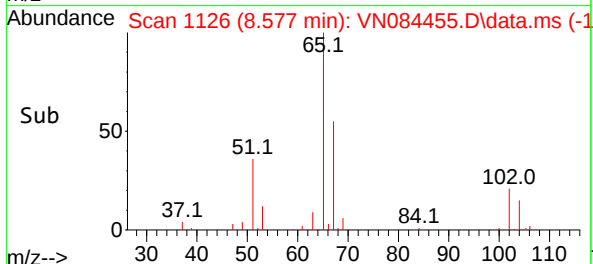
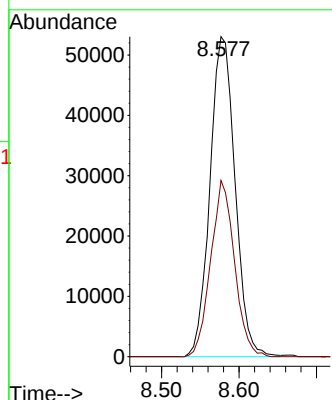
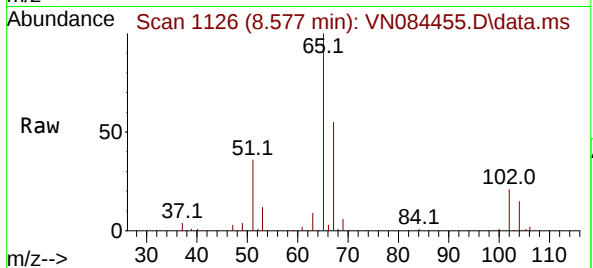
BP-VPB-190-GW-238-240

Tgt Ion: 65 Resp: 119376

Ion Ratio Lower Upper

65 100

67 52.3 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN084455.D

Acq: 22 Oct 2024 15:09

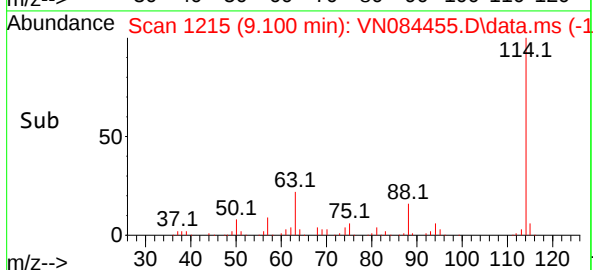
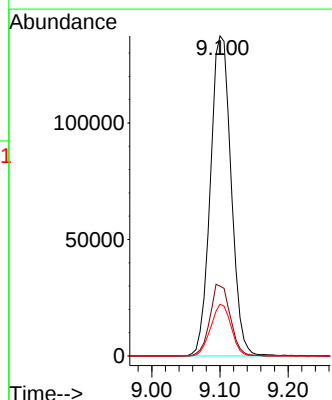
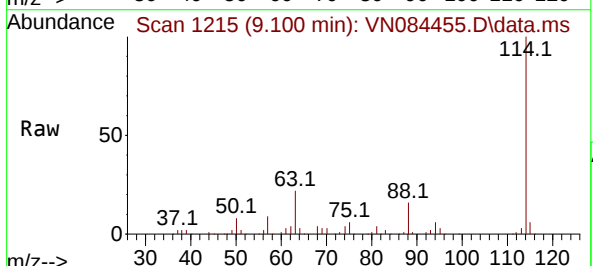
Tgt Ion: 114 Resp: 291051

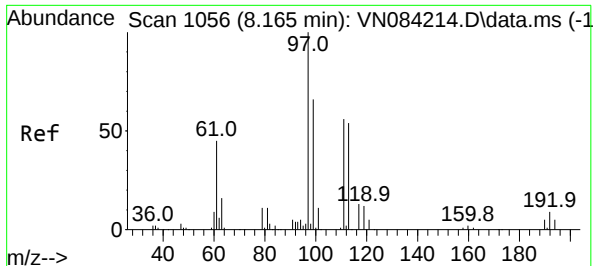
Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.8

88 16.2 0.0 31.6





#35

Dibromofluoromethane

Concen: 50.188 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084455.D

Acq: 22 Oct 2024 15:09

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-238-240

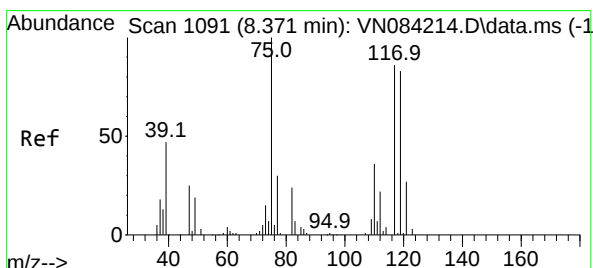
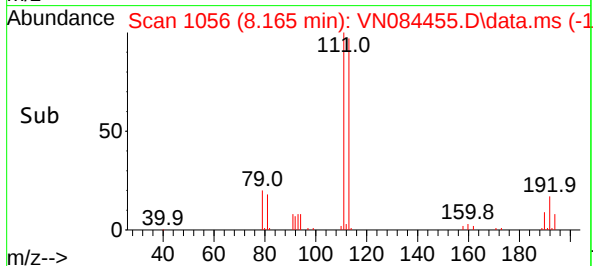
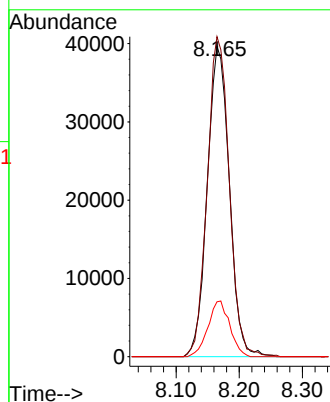
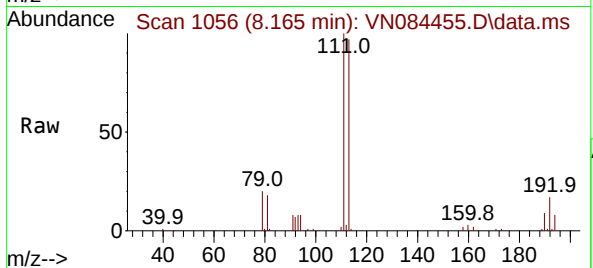
Tgt Ion:113 Resp: 96300

Ion Ratio Lower Upper

113 100

111 102.6 83.3 124.9

192 17.7 13.5 20.3



#36

1,1-Dichloropropene

Concen: 5.356 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084455.D

Acq: 22 Oct 2024 15:09

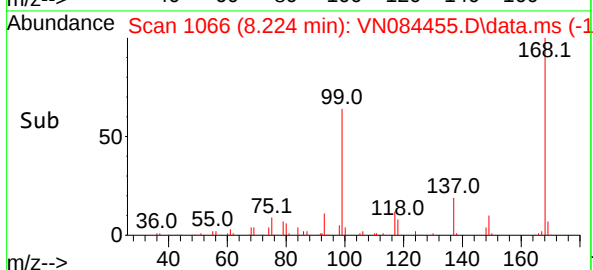
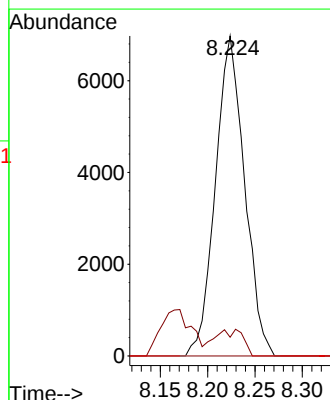
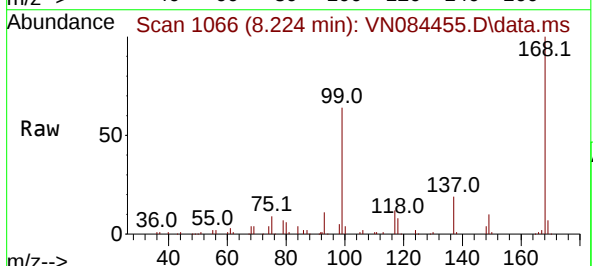
Tgt Ion: 75 Resp: 14929

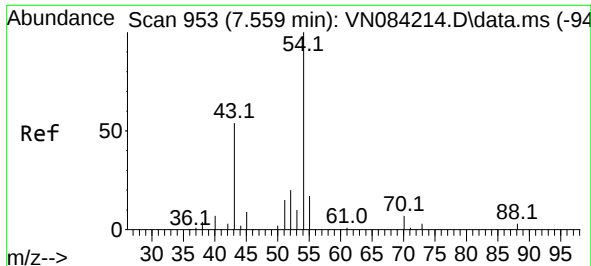
Ion Ratio Lower Upper

75 100

110 7.5 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.284 ug/l

RT: 7.482 min Scan# 94

Delta R.T. -0.077 min

Lab File: VN084455.D

Acq: 22 Oct 2024 15:09

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-190-GW-238-240

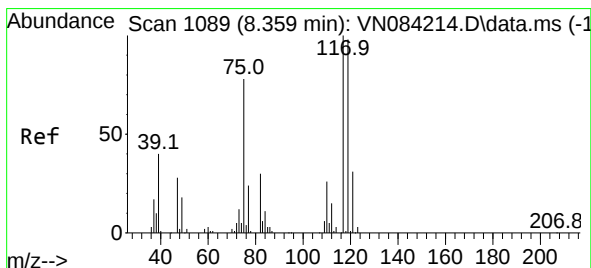
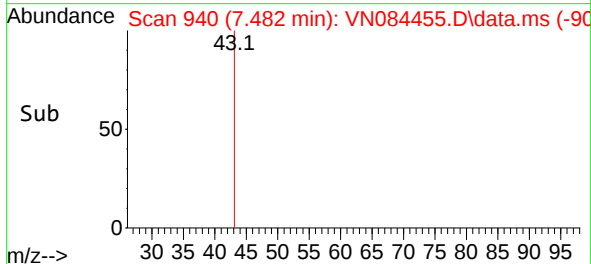
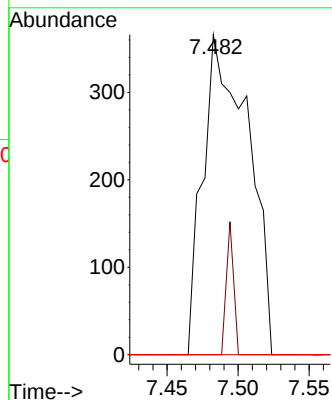
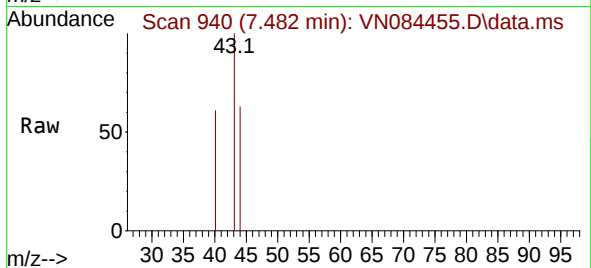
Tgt Ion: 43 Resp: 811

Ion Ratio Lower Upper

43 100

61 6.7 10.7 16.1#

70 0.0 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 6.221 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN084455.D

Acq: 22 Oct 2024 15:09

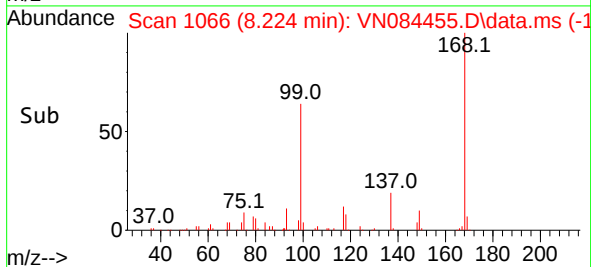
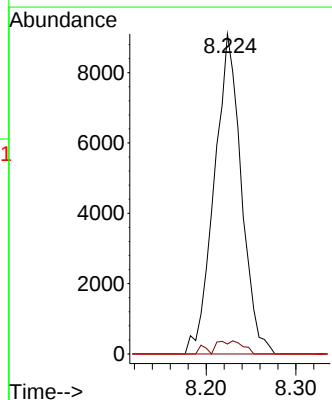
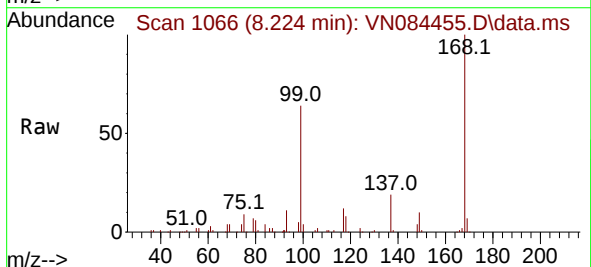
Tgt Ion: 117 Resp: 19021

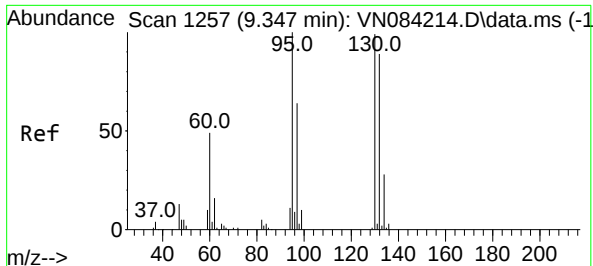
Ion Ratio Lower Upper

117 100

119 3.1 78.7 118.1#

121 0.0 24.4 36.6#

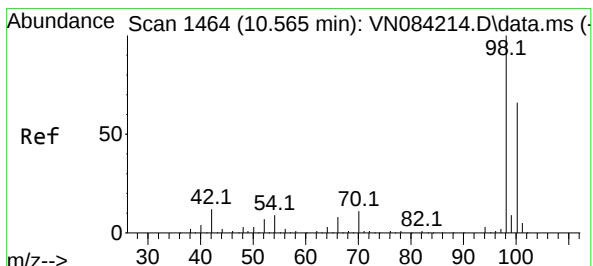
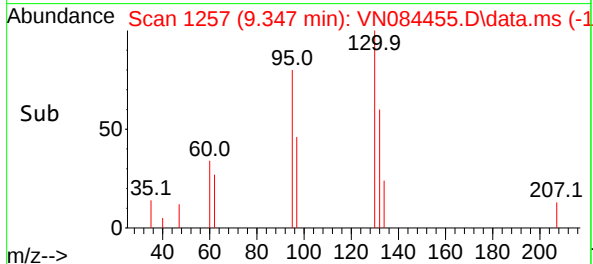
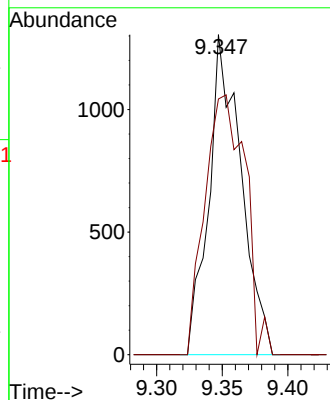
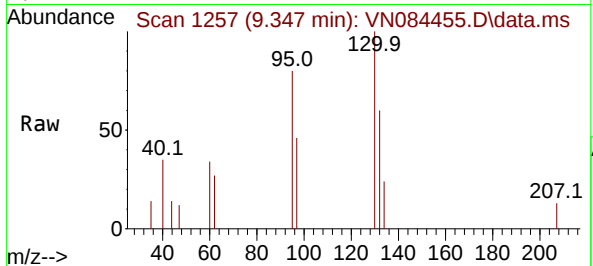




#44
Trichloroethene
Concen: 1.098 ug/l
RT: 9.347 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

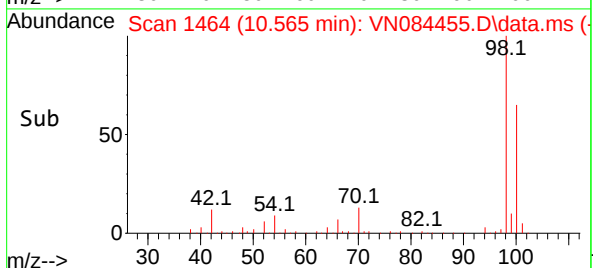
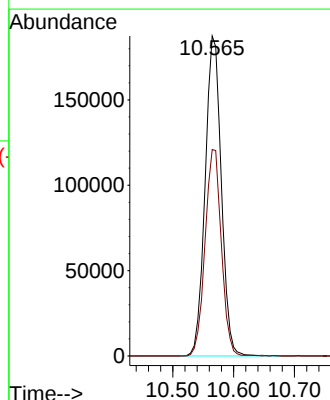
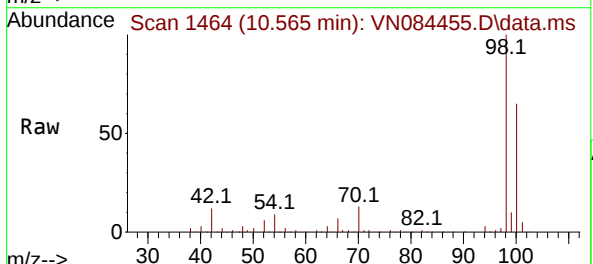
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-238-240

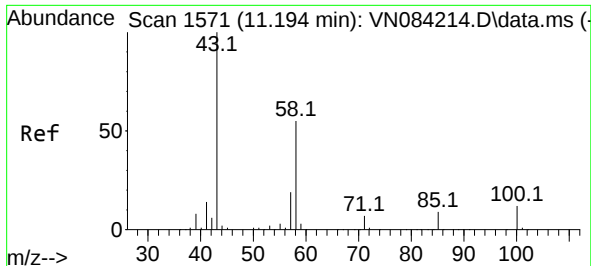
Tgt Ion:130 Resp: 2227
Ion Ratio Lower Upper
130 100
95 79.9 0.0 203.0



#50
Toluene-d8
Concen: 48.912 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

Tgt Ion: 98 Resp: 345288
Ion Ratio Lower Upper
98 100
100 65.1 52.7 79.1





#59

2-Hexanone

Concen: 0.218 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. -0.000 min

Lab File: VN084455.D

Acq: 22 Oct 2024 15:09

Instrument :

MSVOA_N

ClientSampleId :

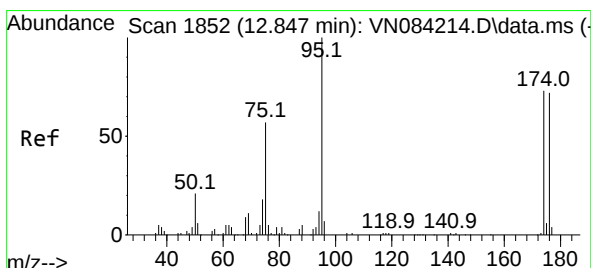
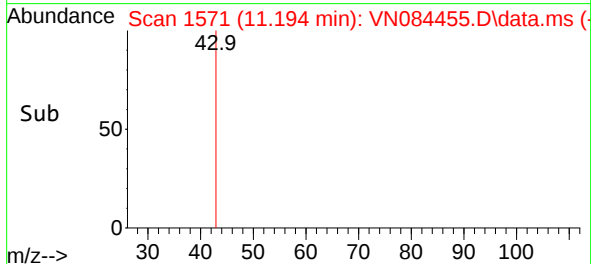
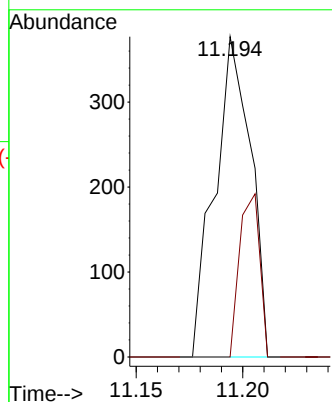
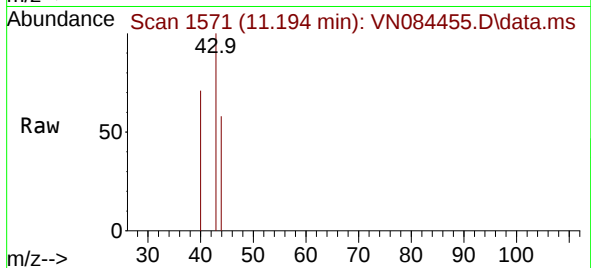
BP-VPB-190-GW-238-240

Tgt Ion: 43 Resp: 444

Ion Ratio Lower Upper

43 100

58 28.6 27.3 81.8



#62

4-Bromofluorobenzene

Concen: 46.413 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084455.D

Acq: 22 Oct 2024 15:09

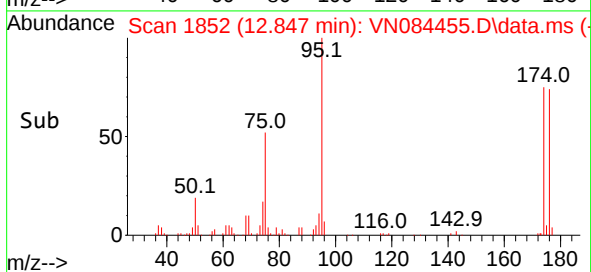
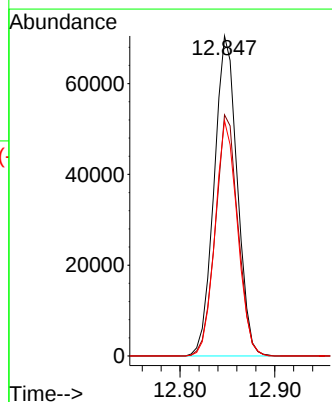
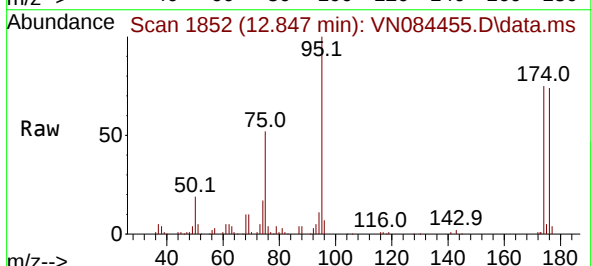
Tgt Ion: 95 Resp: 119367

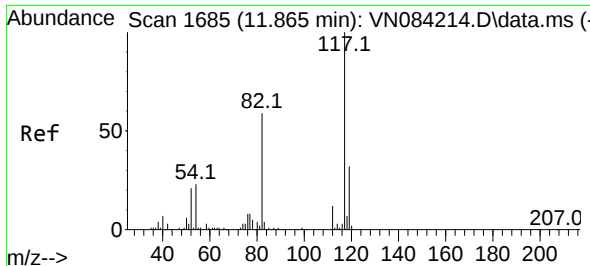
Ion Ratio Lower Upper

95 100

174 73.8 0.0 145.2

176 71.3 0.0 140.0

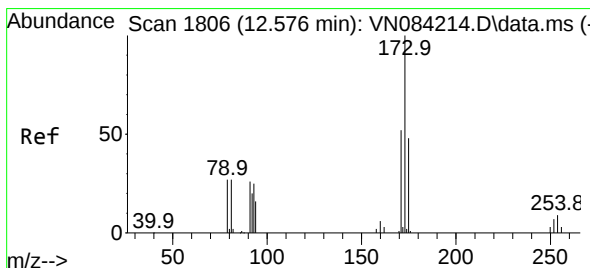
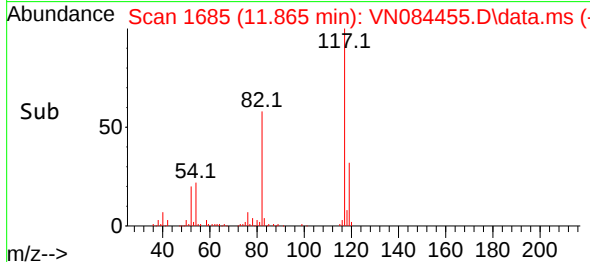
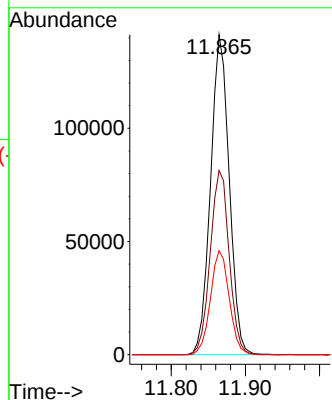
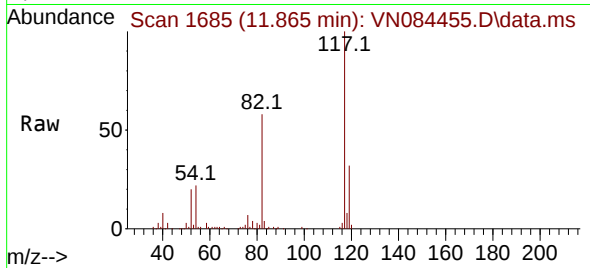




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

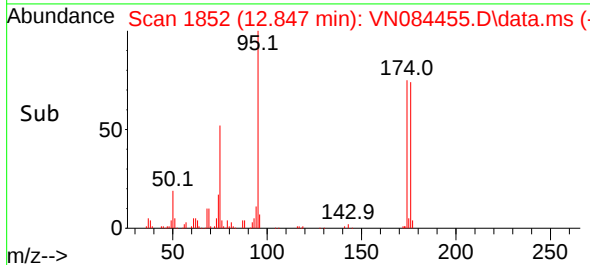
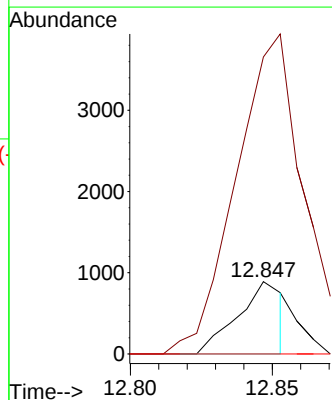
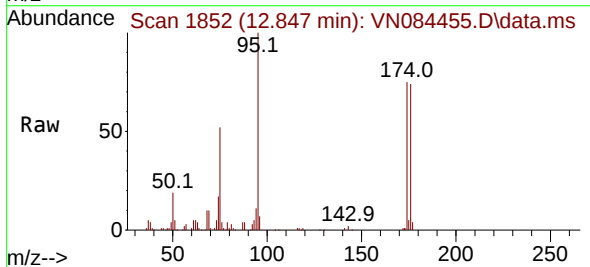
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-238-240

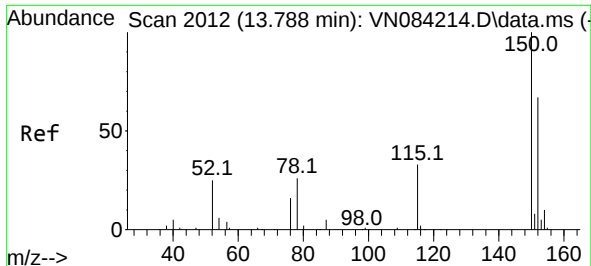
Tgt Ion:117 Resp: 247138
Ion Ratio Lower Upper
117 100
82 57.5 47.2 70.8
119 32.5 25.4 38.0



#71
Bromoform
Concen: 0.711 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

Tgt Ion:173 Resp: 988
Ion Ratio Lower Upper
173 100
175 0.0 23.5 70.6#
254 0.0 0.0 0.0

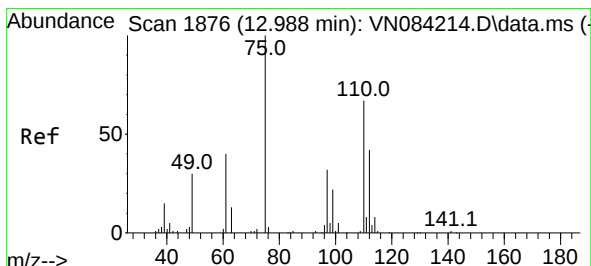
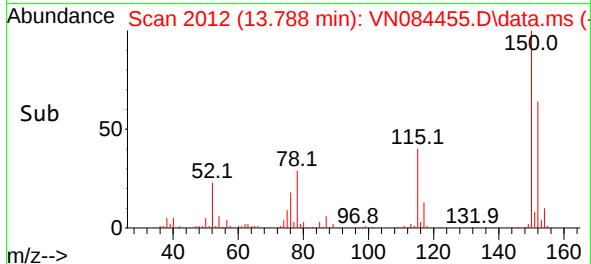
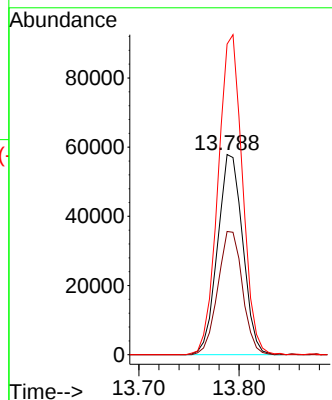
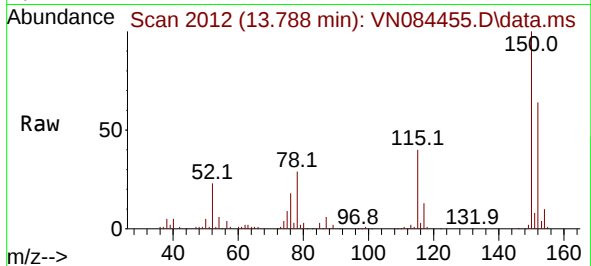




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

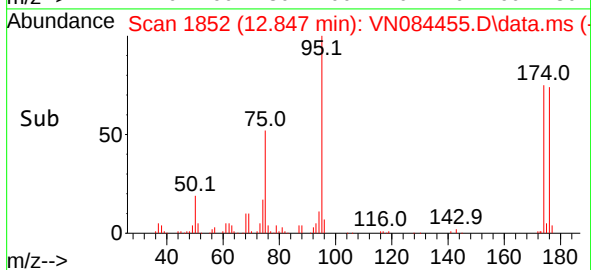
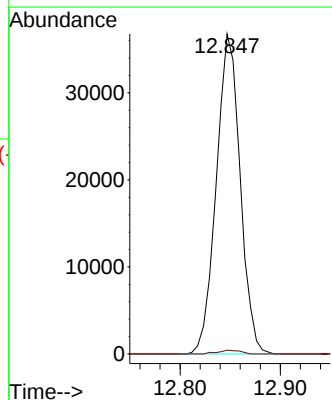
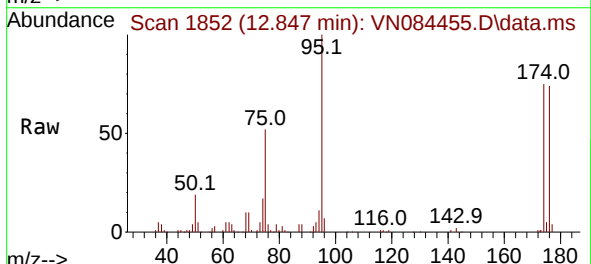
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-238-240

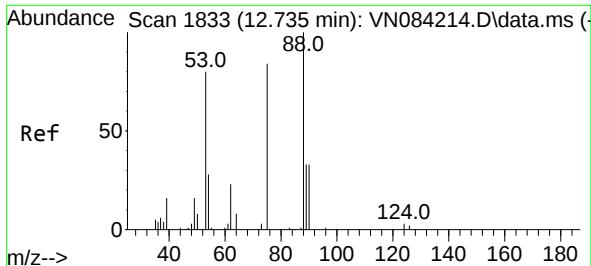
Tgt Ion:152 Resp: 100728
Ion Ratio Lower Upper
152 100
115 60.3 31.3 93.9
150 155.2 0.0 349.8



#76
1,2,3-Trichloropropane
Concen: 29.508 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

Tgt Ion: 75 Resp: 60680
Ion Ratio Lower Upper
75 100
77 1.1 96.9 290.7#

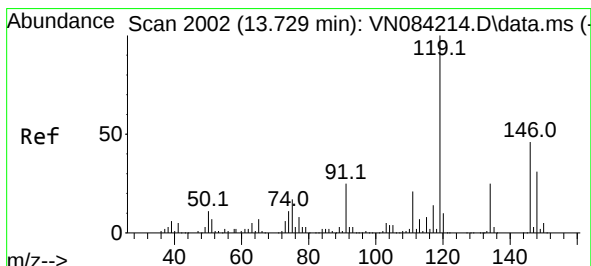
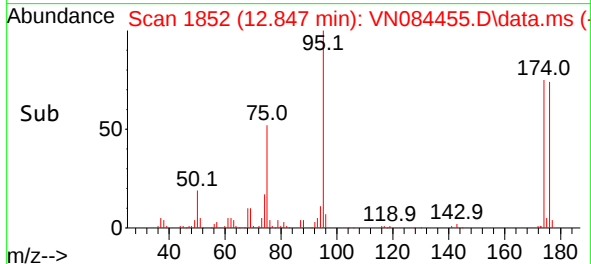
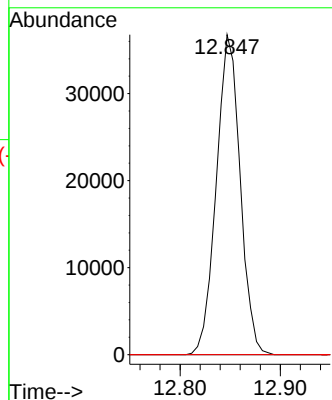
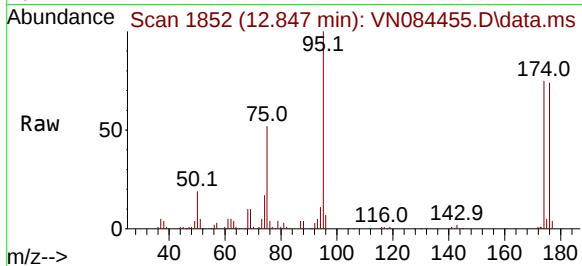




#81
trans-1,4-Dichloro-2-butene
Concen: 70.744 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

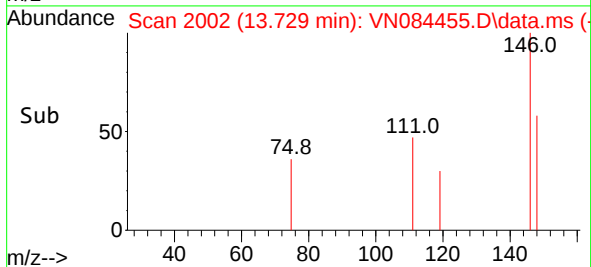
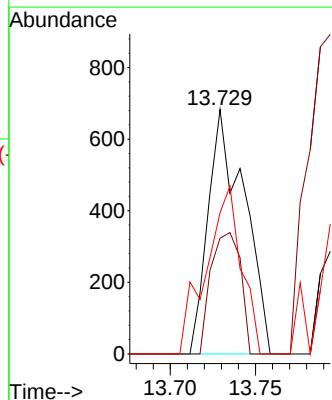
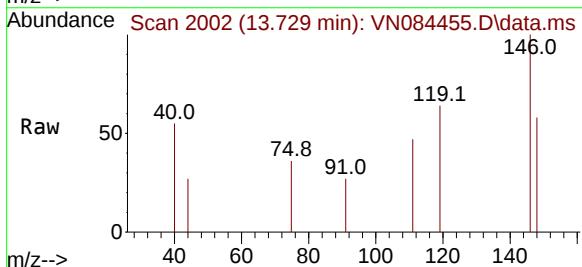
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-238-240

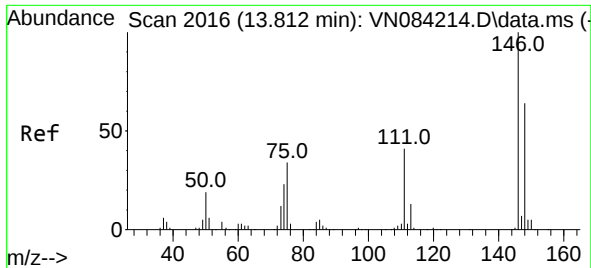
Tgt Ion: 75 Resp: 60680
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#



#87
1,3-Dichlorobenzene
Concen: 0.290 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

Tgt Ion: 146 Resp: 1009
Ion Ratio Lower Upper
146 100
111 40.7 21.8 65.3
148 66.7 31.9 95.7

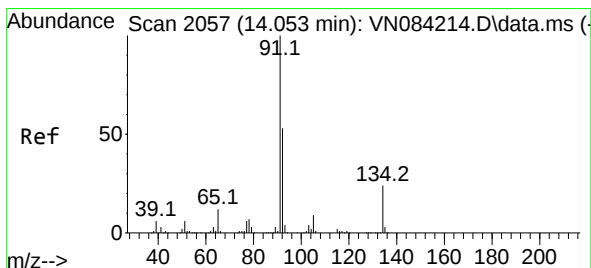
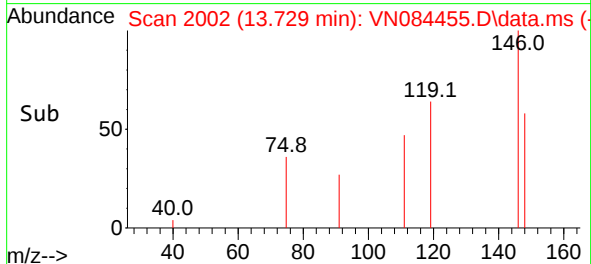
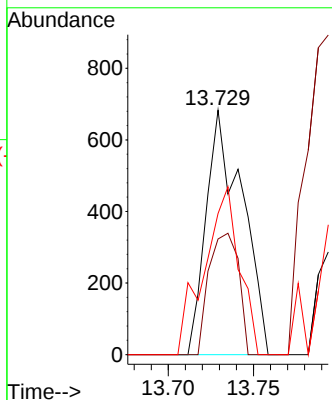
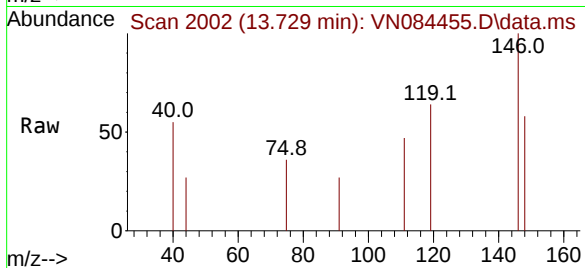




#88
1,4-Dichlorobenzene
Concen: 0.287 ug/l
RT: 13.729 min Scan# 2016
Delta R.T. -0.082 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

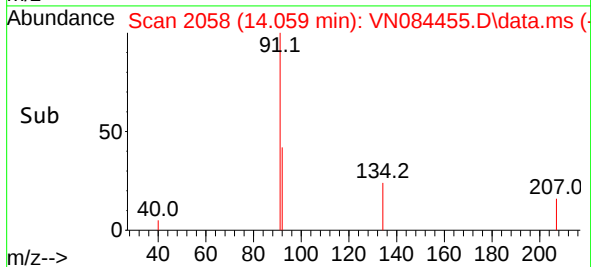
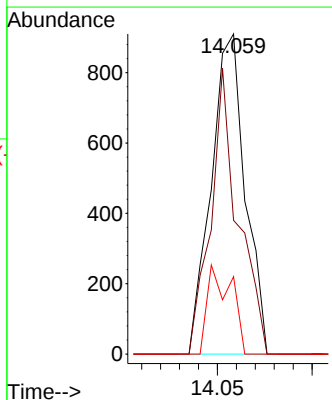
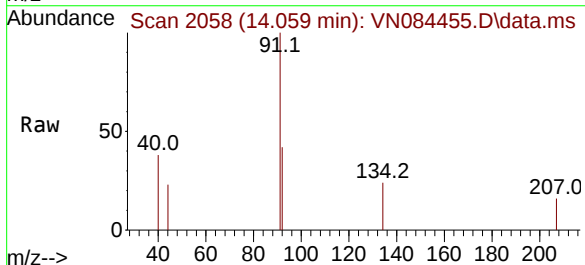
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-238-240

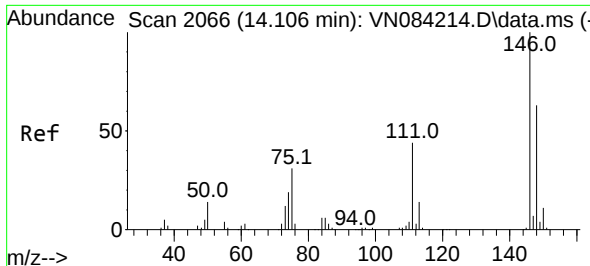
Tgt Ion:146 Resp: 1009
Ion Ratio Lower Upper
146 100
111 40.7 21.2 63.6
148 66.7 31.9 95.9



#89
n-Butylbenzene
Concen: 0.204 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.006 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

Tgt Ion: 91 Resp: 1135
Ion Ratio Lower Upper
91 100
92 71.6 26.6 79.7
134 19.5 12.3 36.9

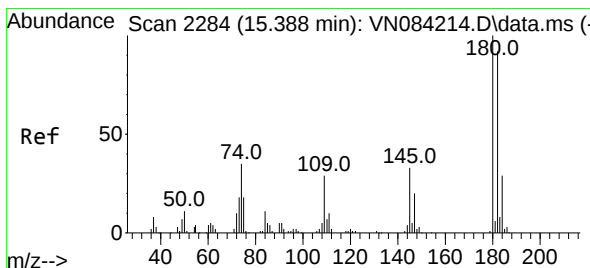
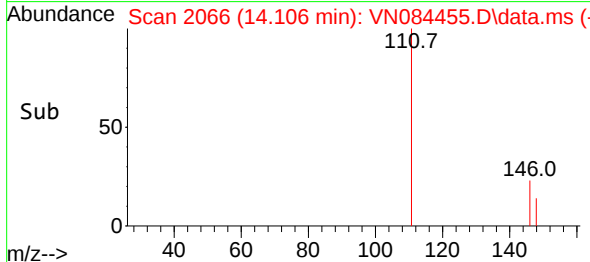
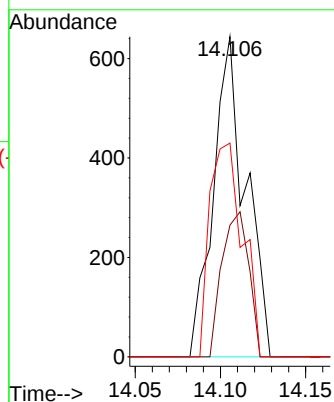
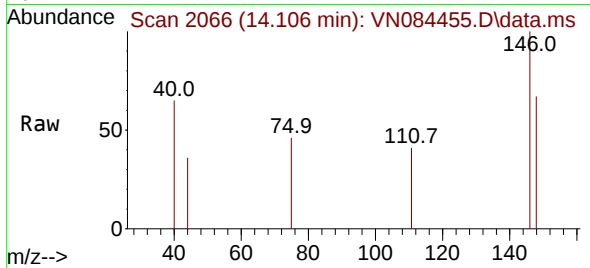




#91
1,2-Dichlorobenzene
Concen: 0.249 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

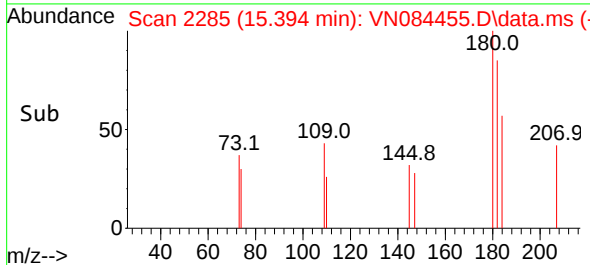
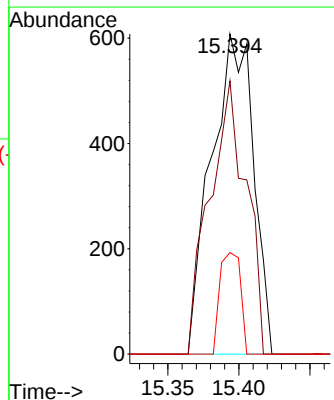
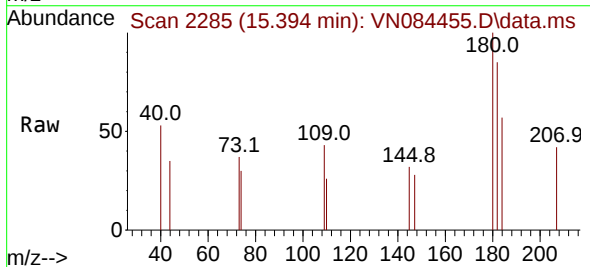
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-238-240

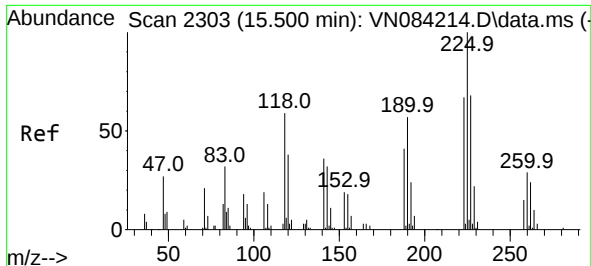
Tgt Ion:146 Resp: 850
Ion Ratio Lower Upper
146 100
111 37.5 22.0 66.0
148 68.0 32.1 96.3



#93
1,2,4-Trichlorobenzene
Concen: 0.746 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. 0.006 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

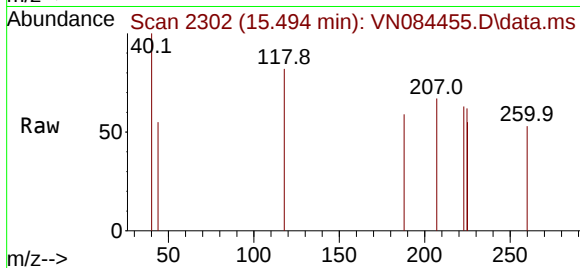
Tgt Ion:180 Resp: 1254
Ion Ratio Lower Upper
180 100
182 74.2 47.0 141.0
145 15.5 16.4 49.4#



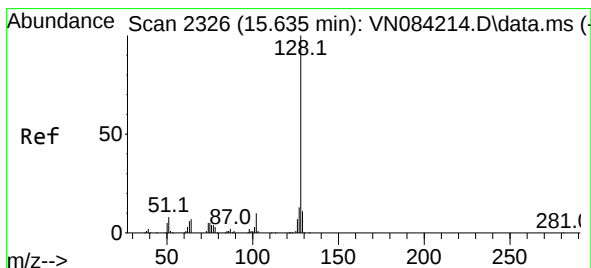
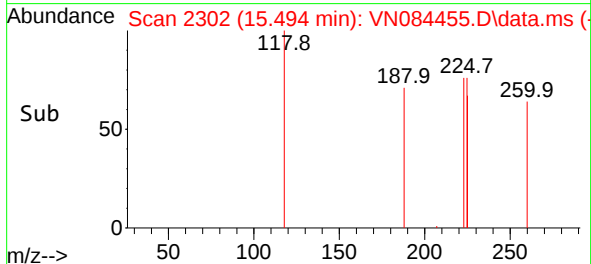
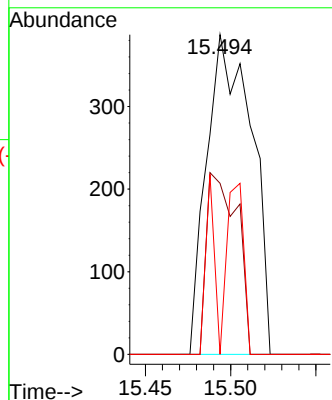


#94
Hexachlorobutadiene
Concen: 0.845 ug/l
RT: 15.494 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-190-GW-238-240

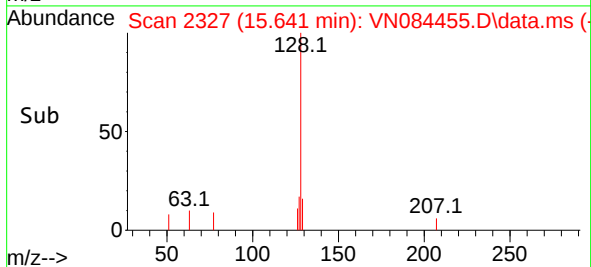
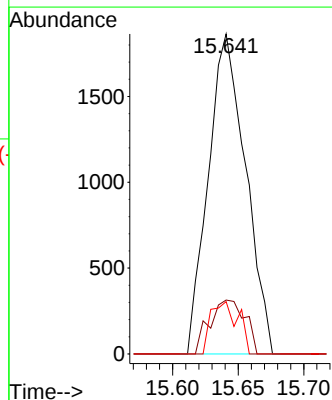
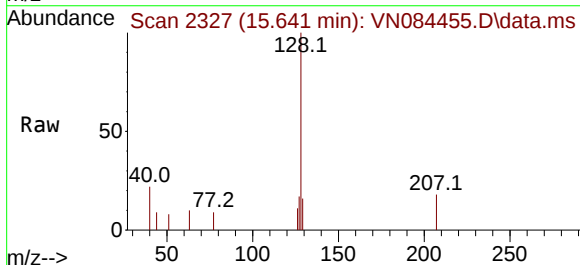


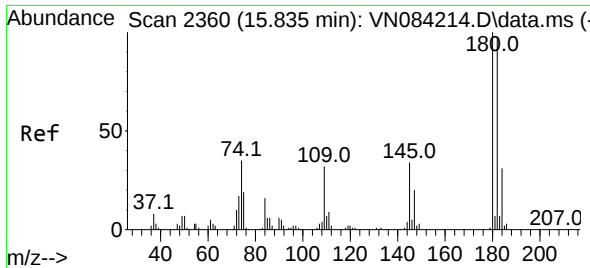
Tgt Ion:225 Resp: 708
Ion Ratio Lower Upper
225 100
223 38.7 32.4 97.2
227 10.9 32.4 97.0#



#95
Naphthalene
Concen: 0.662 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN084455.D
Acq: 22 Oct 2024 15:09

Tgt Ion:128 Resp: 3689
Ion Ratio Lower Upper
128 100
127 16.0 10.5 15.7#
129 12.0 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.662 ug/l
 RT: 15.841 min Scan# 211
 Delta R.T. 0.006 min
 Lab File: VN084455.D
 Acq: 22 Oct 2024 15:09

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-190-GW-238-240

Tgt Ion:	180	Resp:	1113
Ion	Ratio	Lower	Upper
180	100		
182	124.8	48.2	144.6
145	37.2	17.3	51.9

