

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012523\
 Data File : VN076395.D
 Acq On : 25 Jan 2023 12:34
 Operator : JC\MD
 Sample : 01291-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW10-GW-318-320

Quant Time: Jan 26 07:15:22 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

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

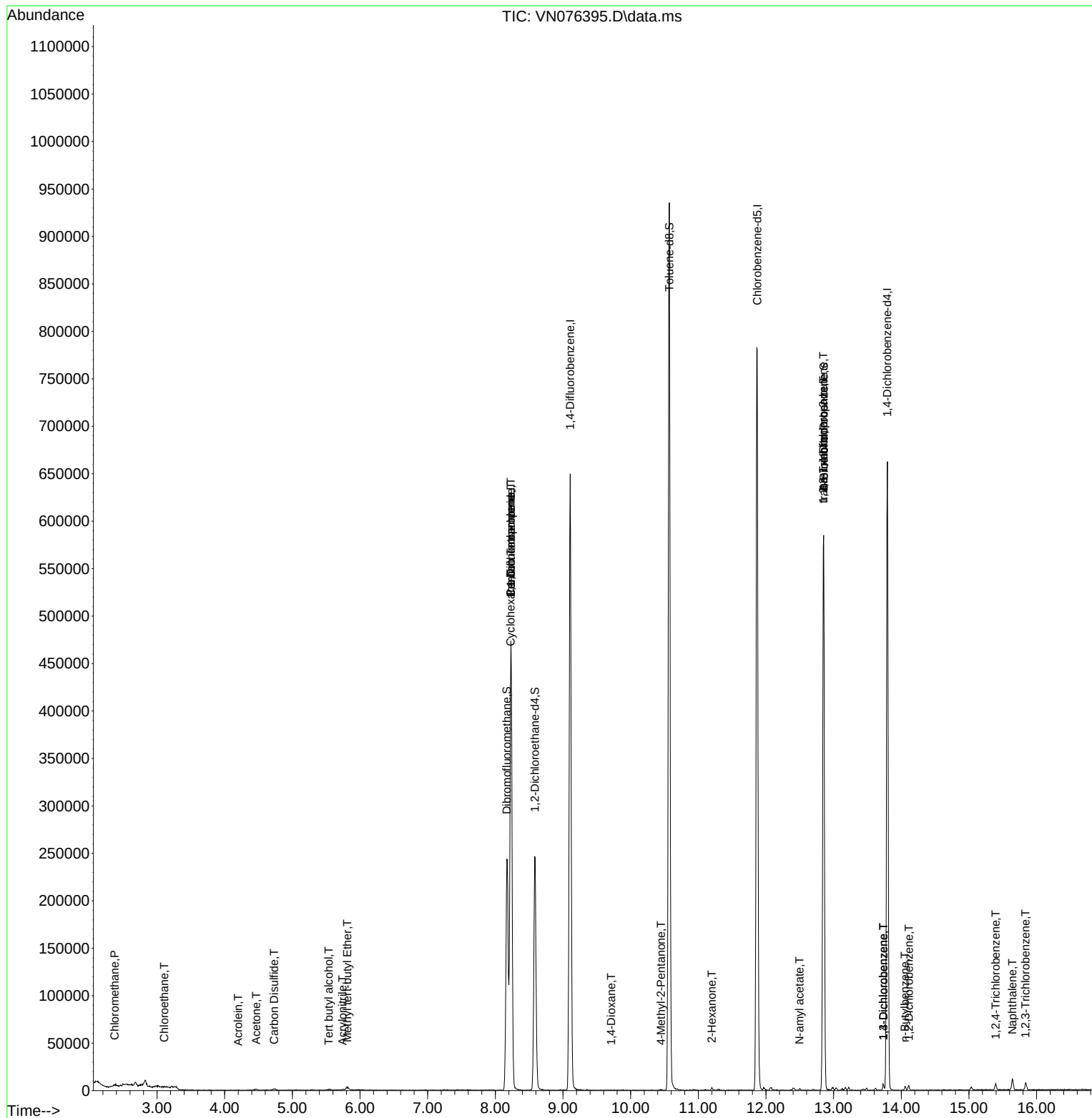
Internal Standards						
1) Pentafluorobenzene	8.230	168	348884	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	567426	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	481966	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	184941	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	205645	52.643	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.280%			
35) Dibromofluoromethane	8.171	113	175061	49.320	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.640%			
50) Toluene-d8	10.571	98	650023	49.587	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.180%			
62) 4-Bromofluorobenzene	12.853	95	197144	46.068	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 92.140%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	848	0.229	ug/l #	86
6) Chloroethane	3.107	64	859	0.252	ug/l #	44
11) Tert butyl alcohol	5.536	59	1585	3.033	ug/l #	72
13) Acrolein	4.201	56	173	0.277	ug/l	98
15) Acrylonitrile	5.742	53	390	0.262	ug/l #	66
16) Acetone	4.465	43	1509	1.132	ug/l #	78
17) Carbon Disulfide	4.730	76	1899	0.228	ug/l #	73
19) Methyl tert-butyl Ether	5.812	73	4830	0.444	ug/l #	88
20) Methylene Chloride	5.289	84	56	Below Cal	#	1
31) Cyclohexane	8.224	56	7700	1.283	ug/l #	48
36) 1,1-Dichloropropene	8.230	75	27426	5.438	ug/l #	49
38) Carbon Tetrachloride	8.230	117	36594	6.506	ug/l #	16
49) 1,4-Dioxane	9.712	88	56	0.852	ug/l #	31
51) 4-Methyl-2-Pentanone	10.447	43	973	0.252	ug/l #	32
59) 2-Hexanone	11.200	43	1700	0.607	ug/l	100
71) Bromoform	12.853	173	1498	0.547	ug/l #	1
74) N-amyl acetate	12.494	43	1055	0.256	ug/l #	70
76) 1,2,3-Trichloropropane	12.847	75	108295	31.798	ug/l #	1
77) Bromobenzene	12.982	156	799	Below Cal		93
81) trans-1,4-Dichloro-2-b...	12.847	75	108295	97.428	ug/l #	11
87) 1,3-Dichlorobenzene	13.735	146	2470	0.366	ug/l	88
88) 1,4-Dichlorobenzene	13.735	146	2470	0.485	ug/l	88
89) n-Butylbenzene	14.053	91	2931	0.304	ug/l	95
91) 1,2-Dichlorobenzene	14.112	146	2191	0.326	ug/l	96
93) 1,2,4-Trichlorobenzene	15.394	180	2538	2.067	ug/l	96
95) Naphthalene	15.641	128	10974	2.939	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	3110	2.136	ug/l	89

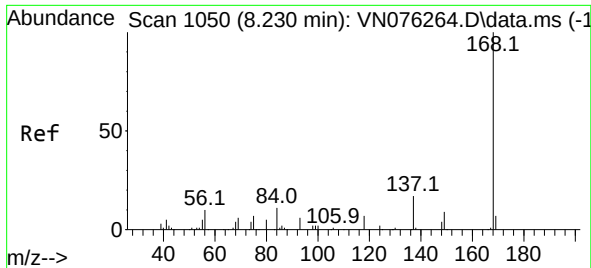
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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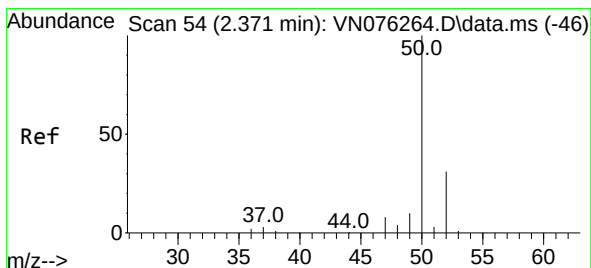
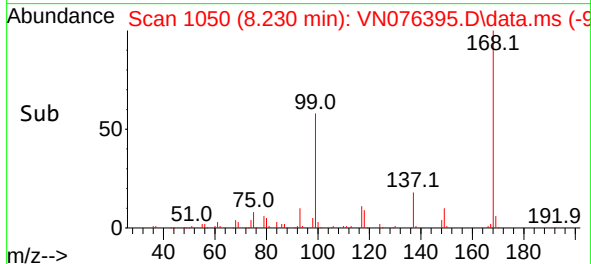
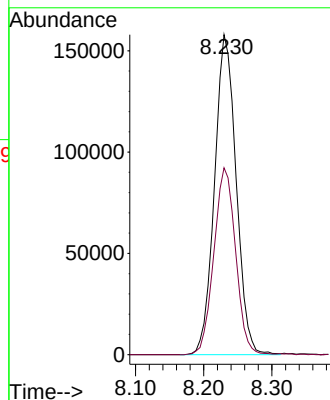
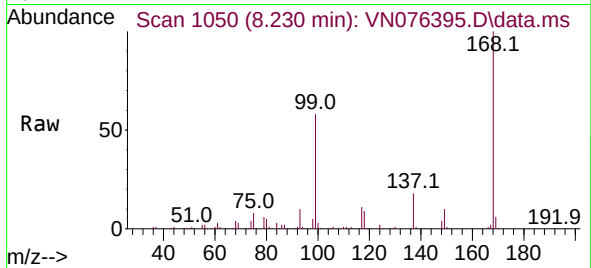




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

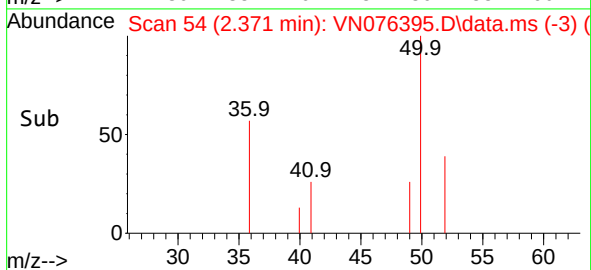
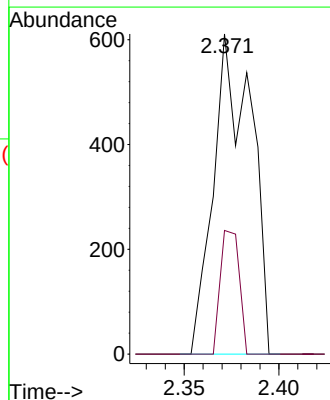
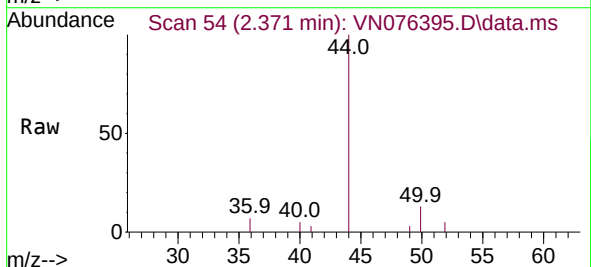
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW10-GW-318-320

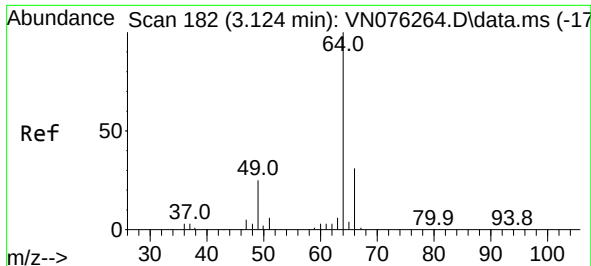
Tgt Ion:168 Resp: 348884
Ion Ratio Lower Upper
168 100
99 58.4 41.6 62.4



#3
Chloromethane
Concen: 0.229 ug/l
RT: 2.371 min Scan# 54
Delta R.T. 0.000 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

Tgt Ion: 50 Resp: 848
Ion Ratio Lower Upper
50 100
52 38.6 24.8 37.2#

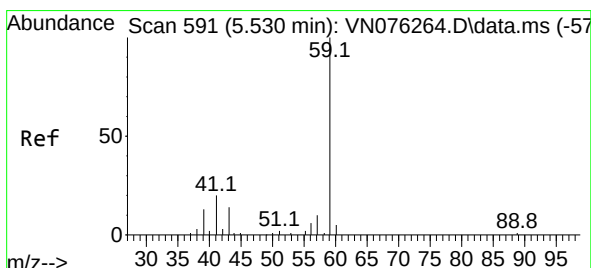
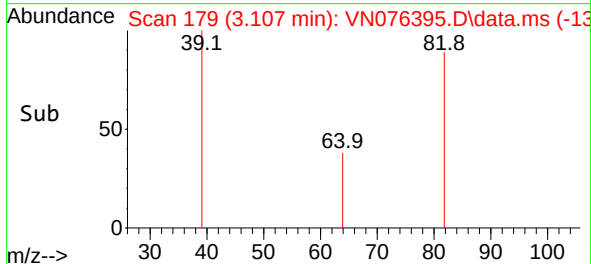
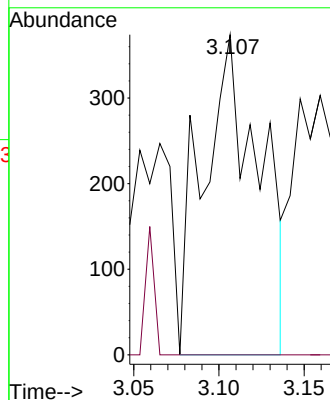
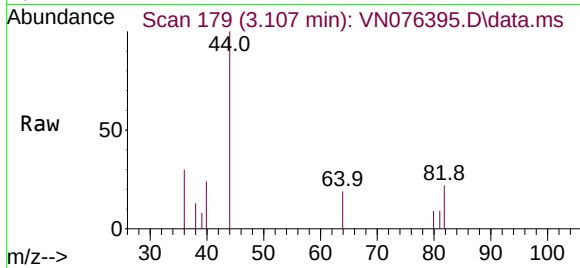




#6
Chloroethane
Concen: 0.252 ug/l
RT: 3.107 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

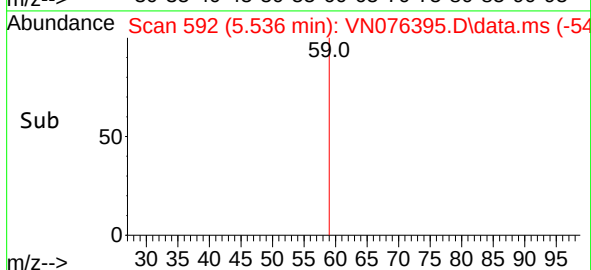
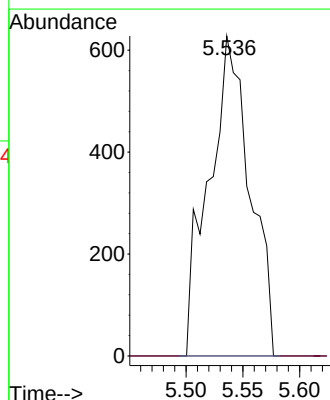
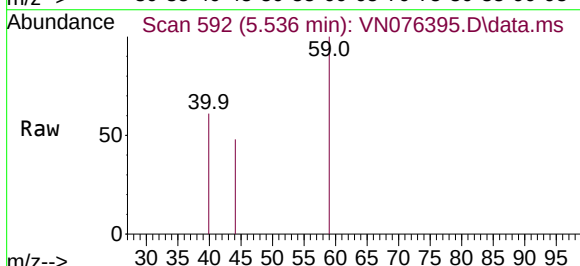
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW10-GW-318-320

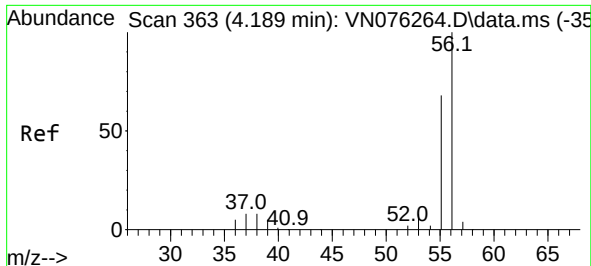
Tgt Ion: 64 Resp: 859
Ion Ratio Lower Upper
64 100
66 0.0 24.8 37.2#



#11
Tert butyl alcohol
Concen: 3.033 ug/l
RT: 5.536 min Scan# 592
Delta R.T. 0.006 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

Tgt Ion: 59 Resp: 1585
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.277 ug/l

RT: 4.201 min Scan# 3

Delta R.T. 0.012 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

Instrument :

MSVOA_N

ClientSampleId :

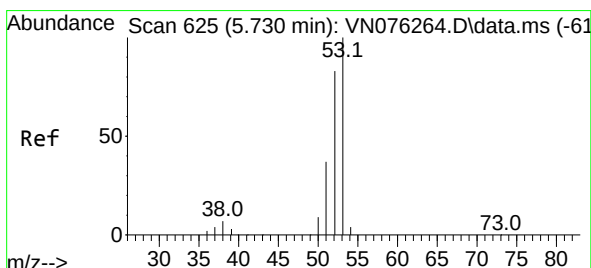
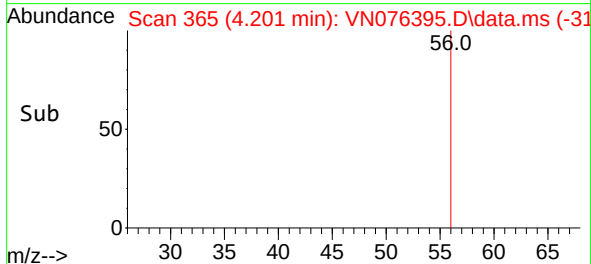
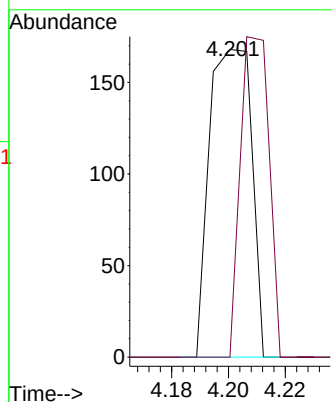
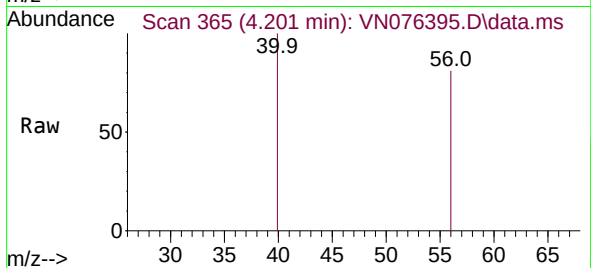
BP-VPB-RW10-GW-318-320

Tgt Ion: 56 Resp: 173

Ion Ratio Lower Upper

56 100

55 71.1 55.8 83.6



#15

Acrylonitrile

Concen: 0.262 ug/l

RT: 5.742 min Scan# 627

Delta R.T. 0.012 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

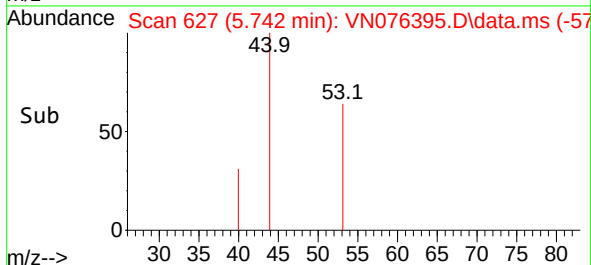
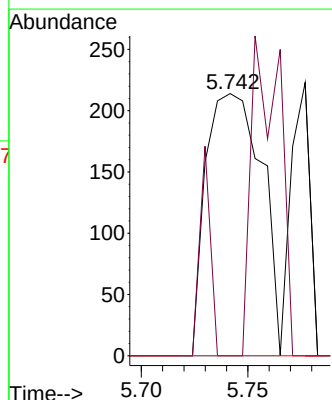
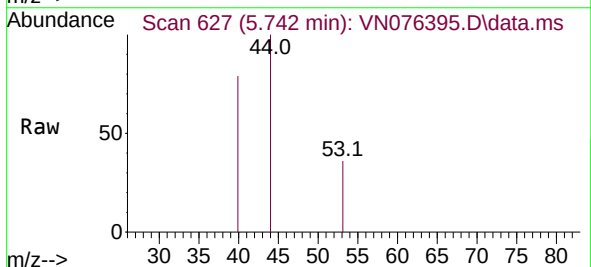
Tgt Ion: 53 Resp: 390

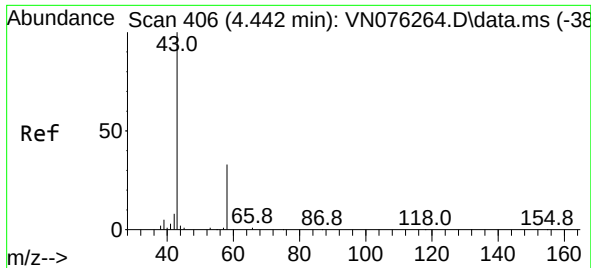
Ion Ratio Lower Upper

53 100

52 62.3 64.7 97.1#

51 0.0 29.2 43.8#

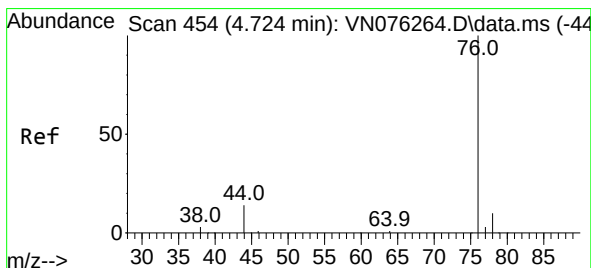
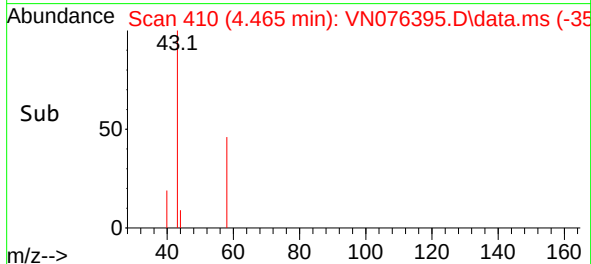
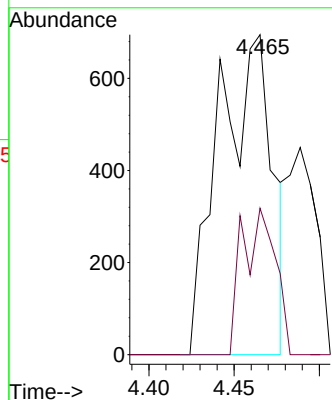
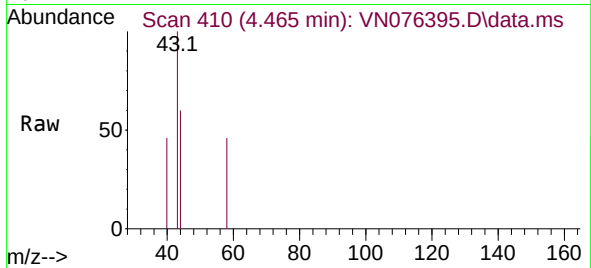




#16
Acetone
Concen: 1.132 ug/l
RT: 4.465 min Scan# 410
Delta R.T. 0.023 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

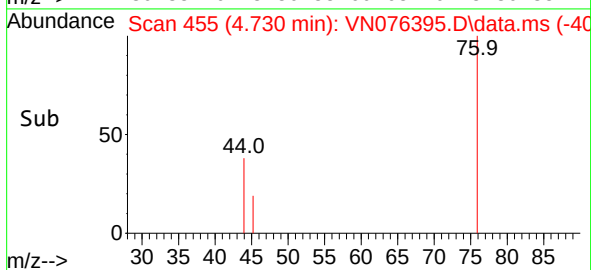
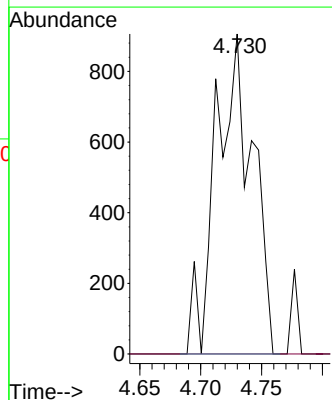
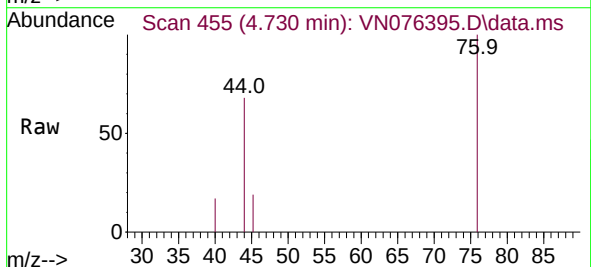
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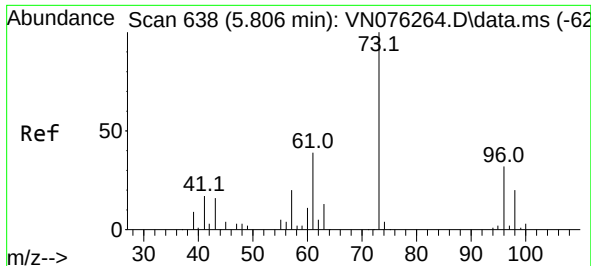
Tgt Ion: 43 Resp: 1509
Ion Ratio Lower Upper
43 100
58 45.8 26.7 40.1#



#17
Carbon Disulfide
Concen: 0.228 ug/l
RT: 4.730 min Scan# 455
Delta R.T. 0.006 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

Tgt Ion: 76 Resp: 1899
Ion Ratio Lower Upper
76 100
78 0.0 8.0 12.0#

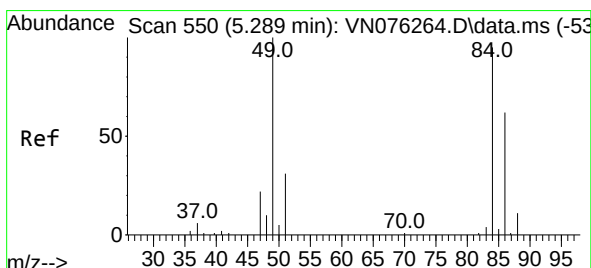
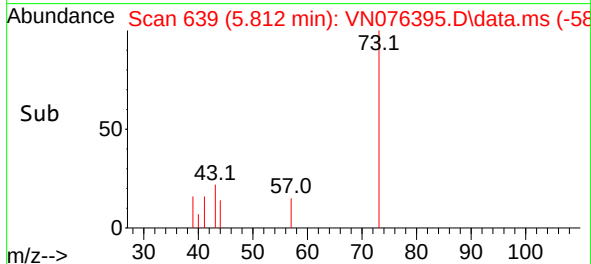
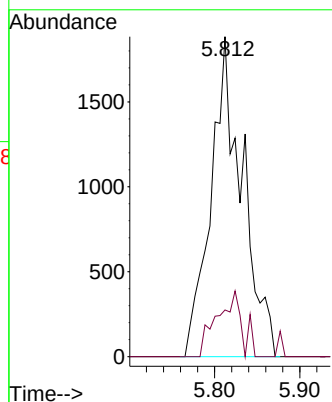
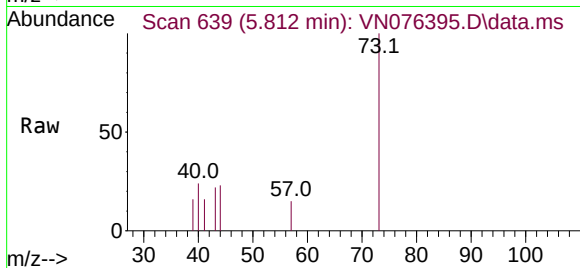




#19
Methyl tert-butyl Ether
Concen: 0.444 ug/l
RT: 5.812 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

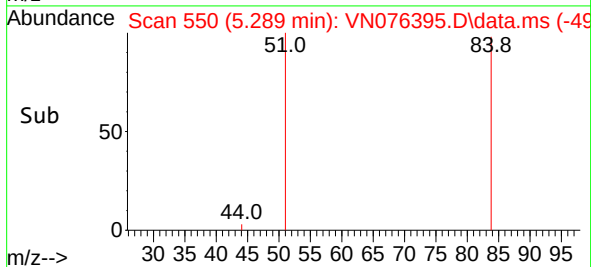
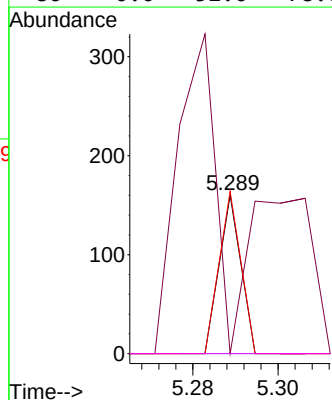
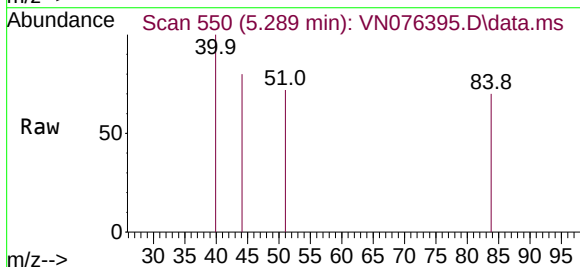
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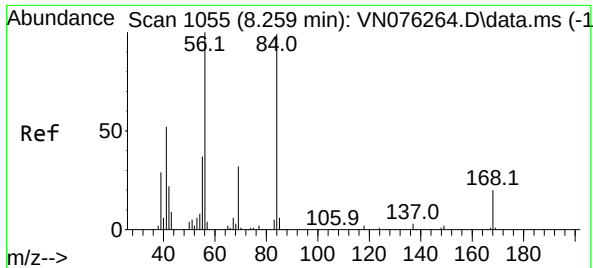
Tgt Ion: 73 Resp: 4830
Ion Ratio Lower Upper
73 100
57 14.6 15.9 23.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 550
Delta R.T. -0.000 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

Tgt Ion: 84 Resp: 56
Ion Ratio Lower Upper
84 100
49 0.0 84.5 126.7#
51 102.5 26.0 39.0#
86 0.0 52.0 78.0#

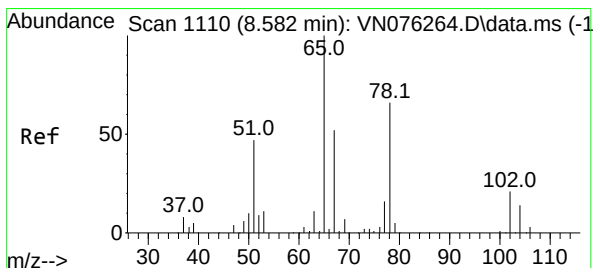
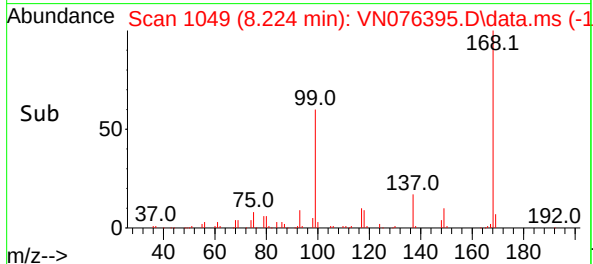
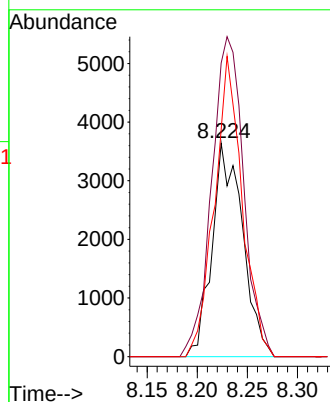
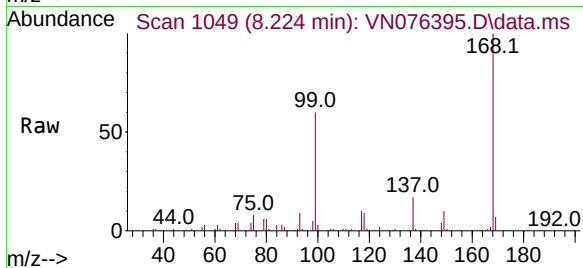




#31
Cyclohexane
Concen: 1.283 ug/l
RT: 8.224 min Scan# 1049
Delta R.T. -0.035 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

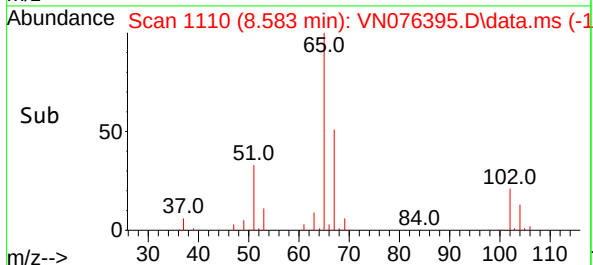
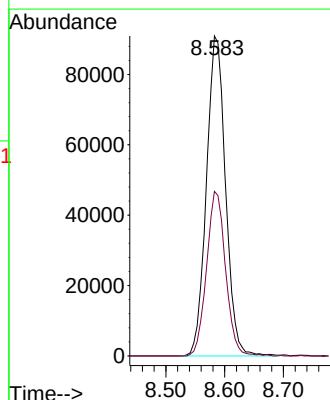
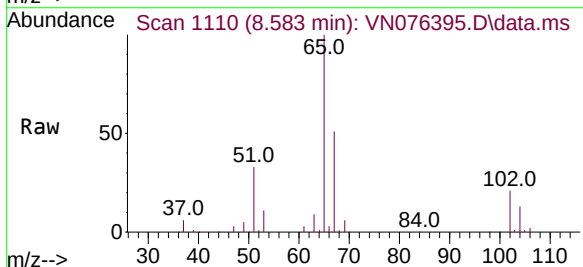
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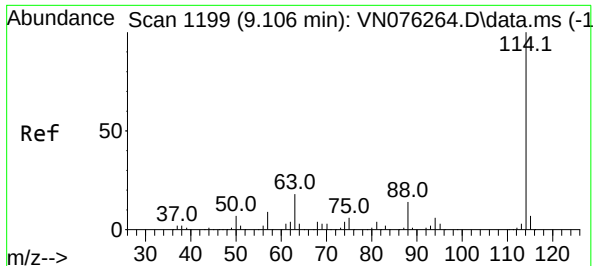
Tgt Ion: 56 Resp: 7700
Ion Ratio Lower Upper
56 100
69 137.6 25.8 38.8#
84 106.4 79.0 118.4



#33
1,2-Dichloroethane-d4
Concen: 52.643 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. 0.001 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

Tgt Ion: 65 Resp: 205645
Ion Ratio Lower Upper
65 100
67 51.1 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-318-320

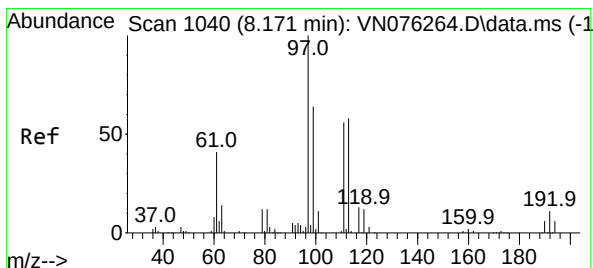
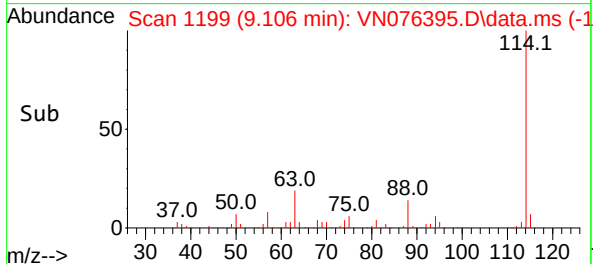
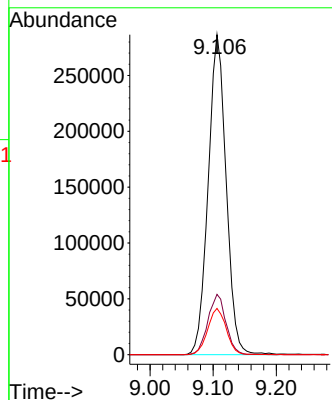
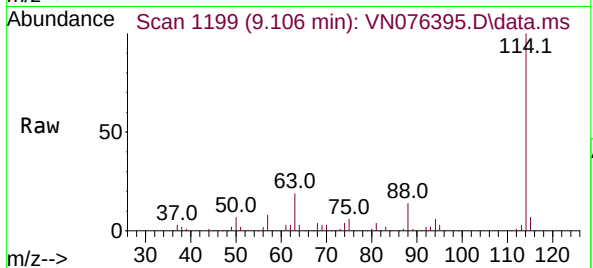
Tgt Ion:114 Resp: 567426

Ion Ratio Lower Upper

114 100

63 18.8 0.0 35.8

88 14.5 0.0 28.0



#35

Dibromofluoromethane

Concen: 49.320 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

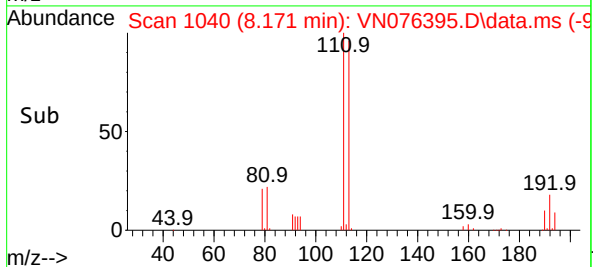
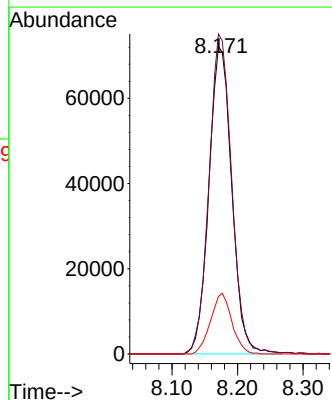
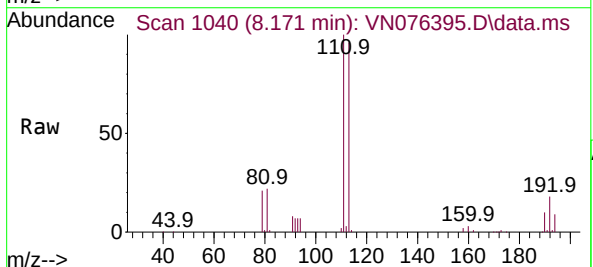
Tgt Ion:113 Resp: 175061

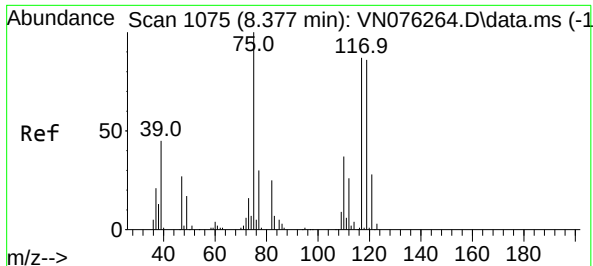
Ion Ratio Lower Upper

113 100

111 103.2 82.7 124.1

192 18.4 15.6 23.4





#36

1,1-Dichloropropene

Concen: 5.438 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-318-320

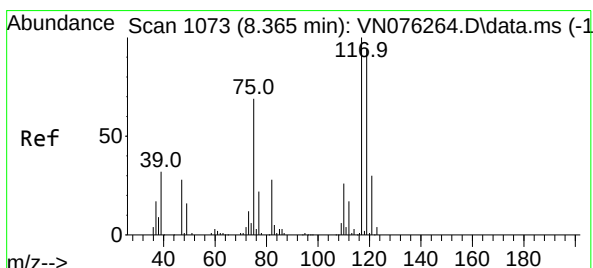
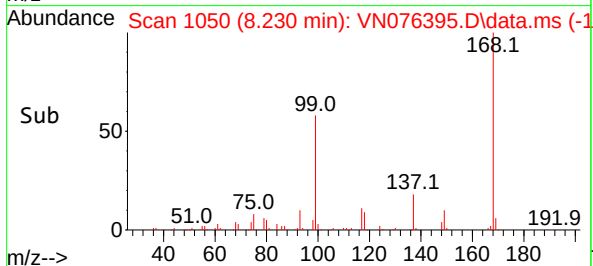
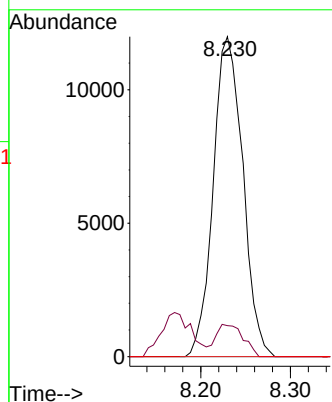
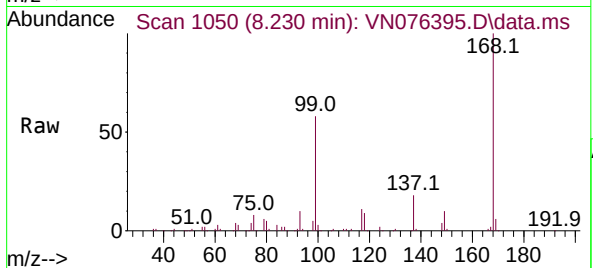
Tgt Ion: 75 Resp: 27426

Ion Ratio Lower Upper

75 100

110 9.4 18.8 56.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.506 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.135 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

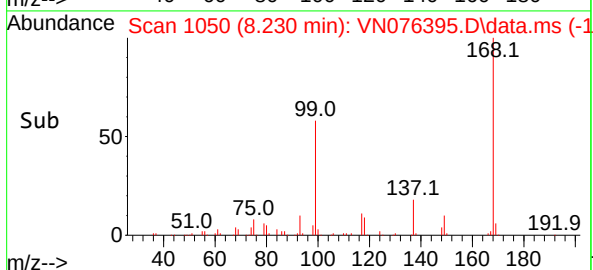
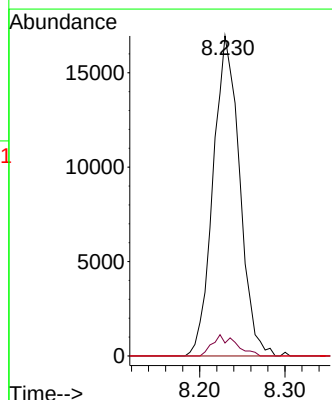
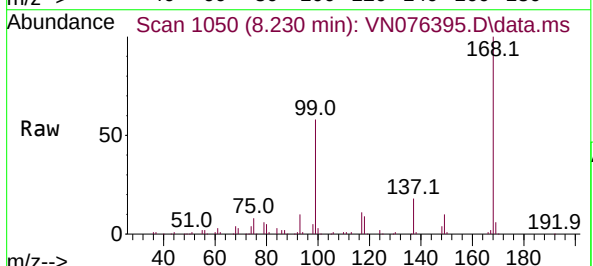
Tgt Ion: 117 Resp: 36594

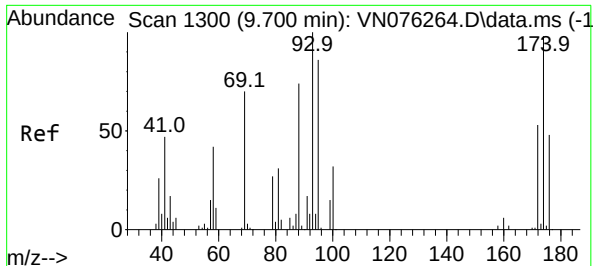
Ion Ratio Lower Upper

117 100

119 4.1 75.4 113.0#

121 0.0 24.2 36.2#





#49

1,4-Dioxane

Concen: 0.852 ug/l

RT: 9.712 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-318-320

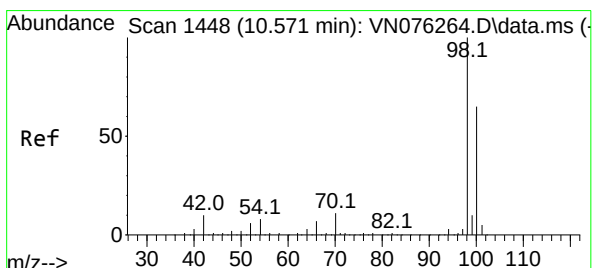
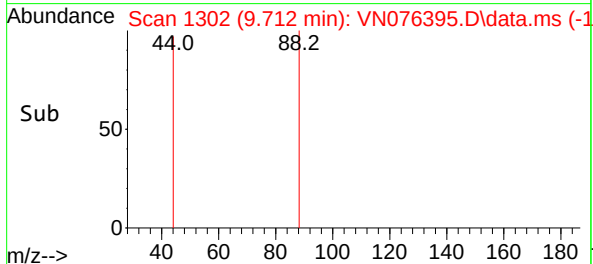
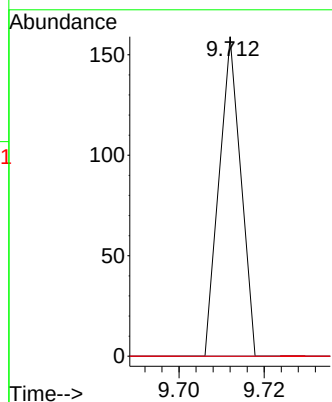
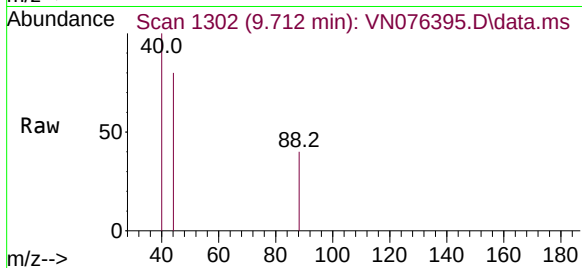
Tgt Ion: 88 Resp: 56

Ion Ratio Lower Upper

88 100

43 0.0 18.1 27.1#

58 0.0 46.5 69.7#



#50

Toluene-d8

Concen: 49.587 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN076395.D

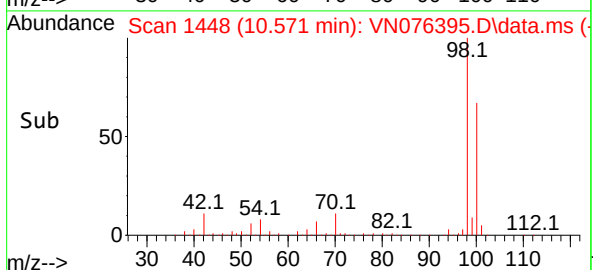
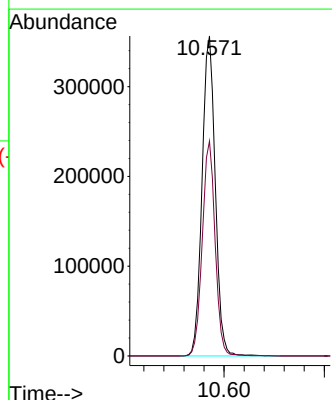
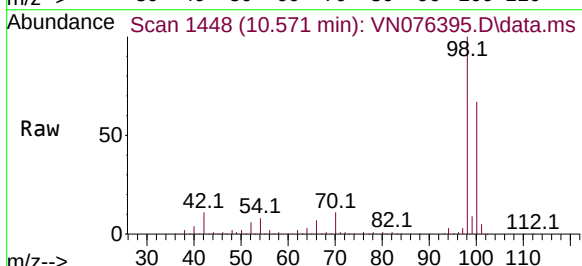
Acq: 25 Jan 2023 12:34

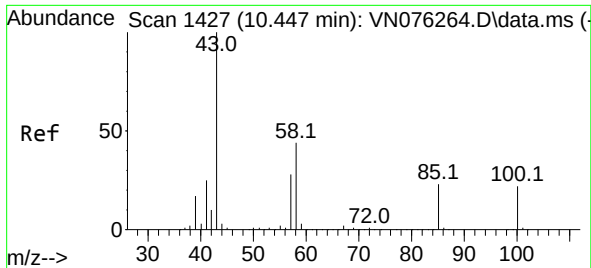
Tgt Ion: 98 Resp: 650023

Ion Ratio Lower Upper

98 100

100 65.6 52.2 78.4

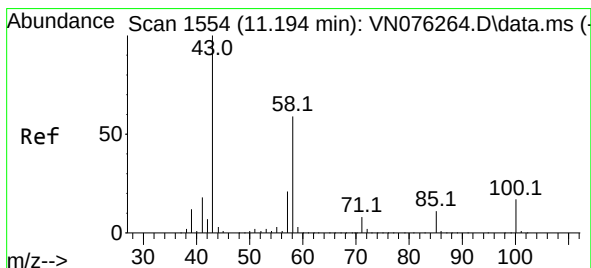
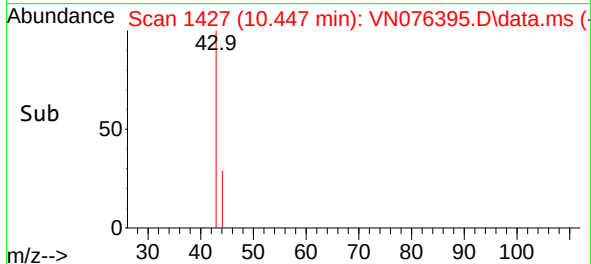
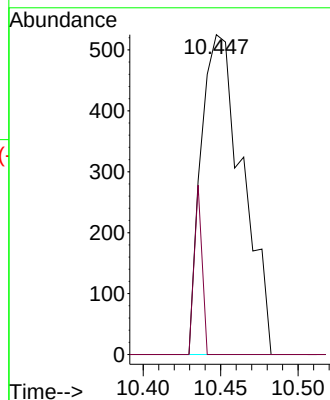
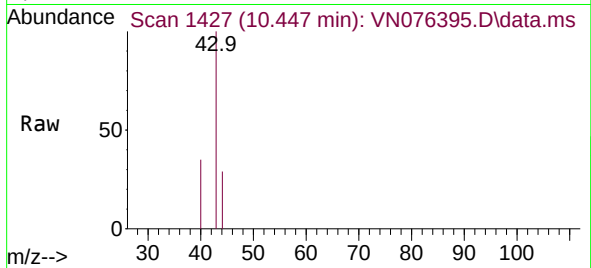




#51
4-Methyl-2-Pentanone
Concen: 0.252 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. 0.000 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

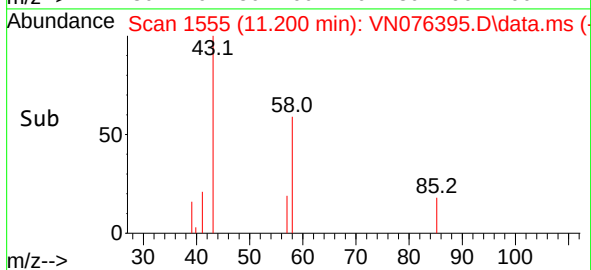
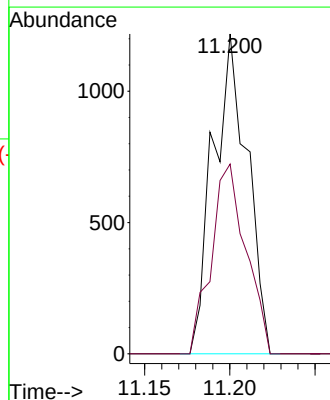
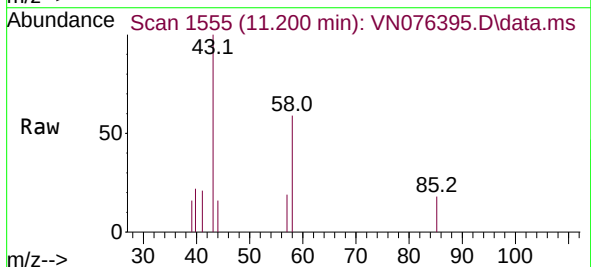
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW10-GW-318-320

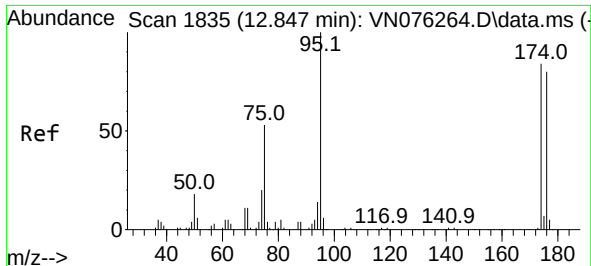
Tgt Ion: 43 Resp: 973
Ion Ratio Lower Upper
43 100
58 0.0 35.1 52.7#



#59
2-Hexanone
Concen: 0.607 ug/l
RT: 11.200 min Scan# 1555
Delta R.T. 0.006 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

Tgt Ion: 43 Resp: 1700
Ion Ratio Lower Upper
43 100
58 60.4 30.1 90.3

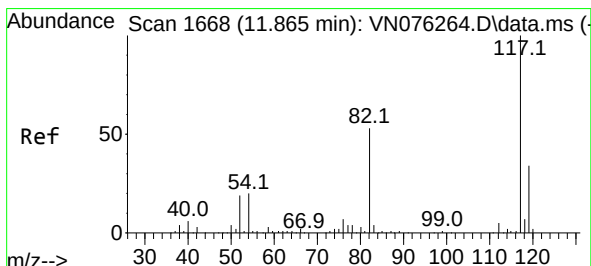
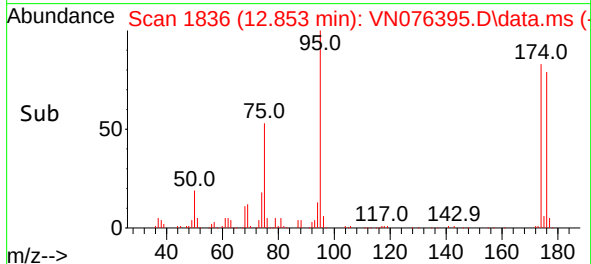
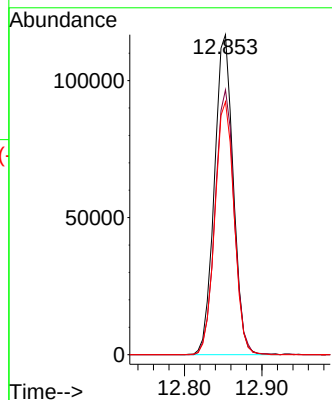
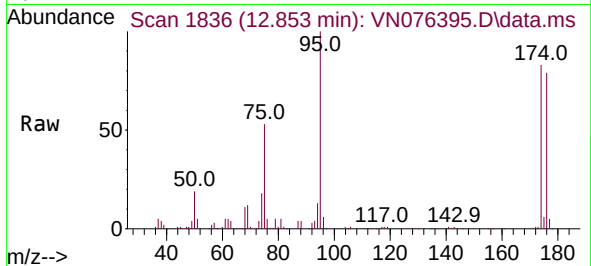




#62
4-Bromofluorobenzene
Concen: 46.068 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

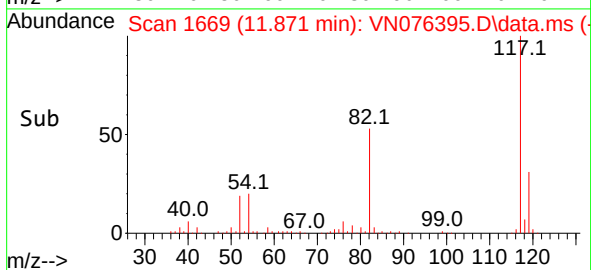
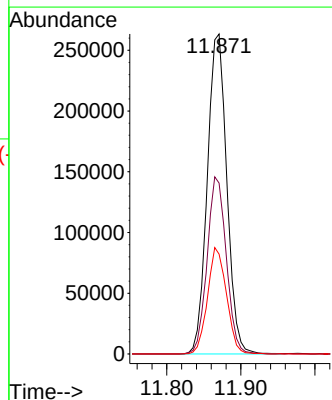
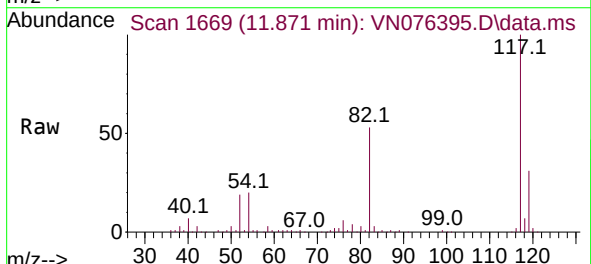
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW10-GW-318-320

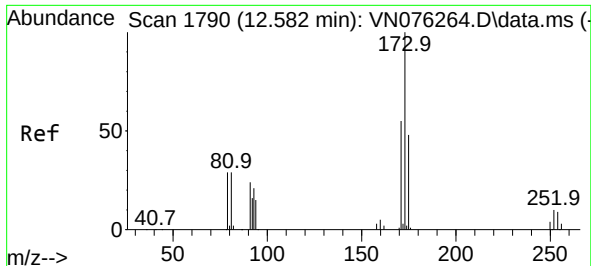
Tgt Ion: 95 Resp: 197144
Ion Ratio Lower Upper
95 100
174 83.8 0.0 174.6
176 80.6 0.0 167.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

Tgt Ion: 117 Resp: 481966
Ion Ratio Lower Upper
117 100
82 53.4 42.2 63.2
119 31.2 26.9 40.3

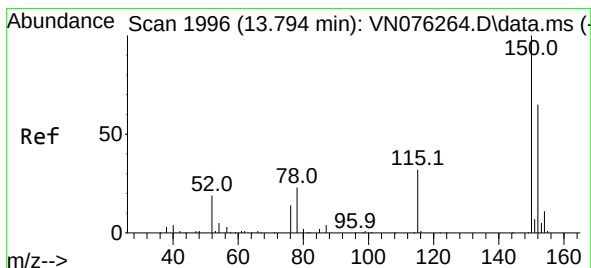
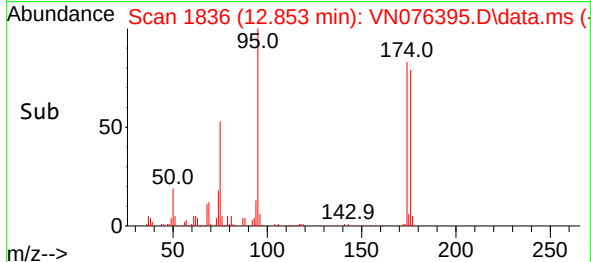
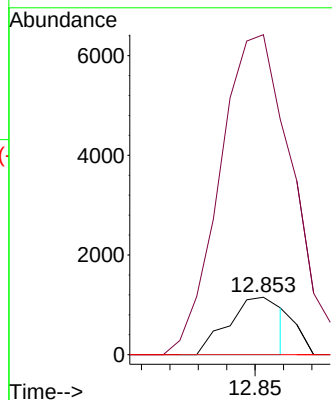
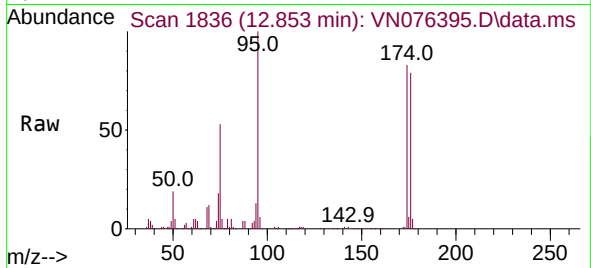




#71
Bromoform
Concen: 0.547 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

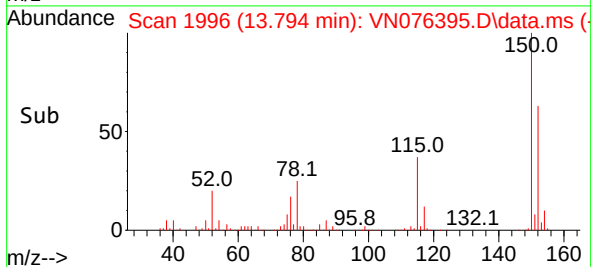
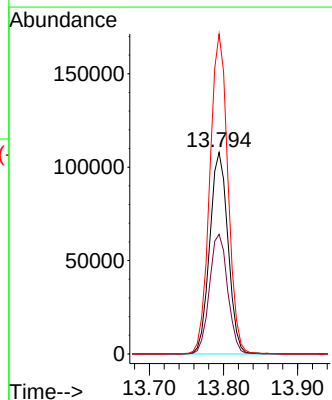
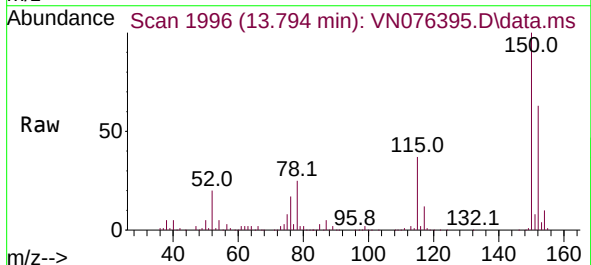
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW10-GW-318-320

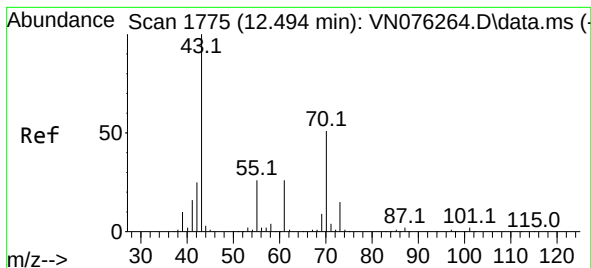
Tgt Ion:173 Resp: 1498
Ion Ratio Lower Upper
173 100
175 630.3 24.1 72.4#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VN076395.D
Acq: 25 Jan 2023 12:34

Tgt Ion:152 Resp: 184941
Ion Ratio Lower Upper
152 100
115 59.3 29.6 88.9
150 157.2 0.0 351.4





#74

N-amy1 acetate

Concen: 0.256 ug/l

RT: 12.494 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-318-320

Tgt Ion: 43 Resp: 1055

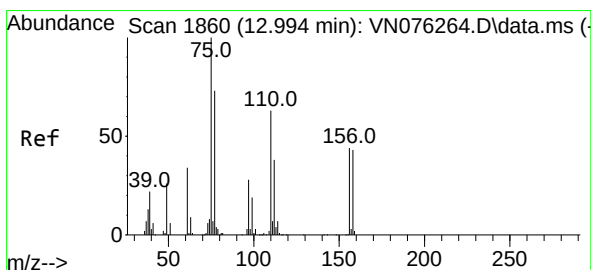
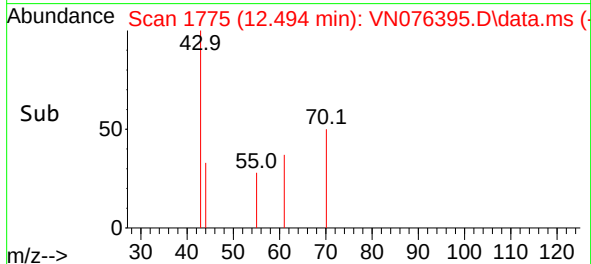
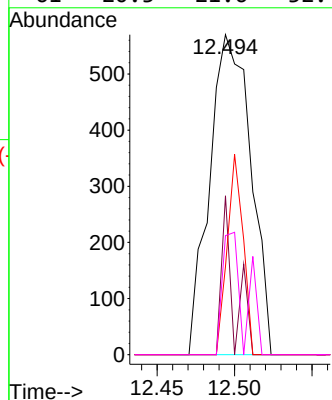
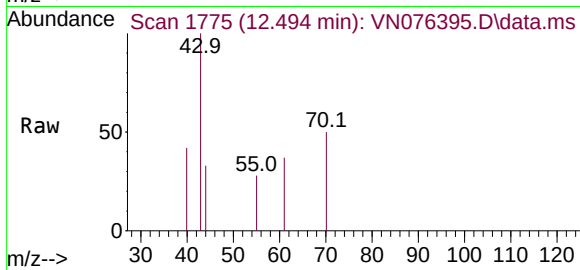
Ion Ratio Lower Upper

43 100

70 14.9 41.2 61.8#

55 24.1 21.0 31.6

61 20.3 21.6 32.4#



#76

1,2,3-Trichloropropane

Concen: 31.798 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. -0.147 min

Lab File: VN076395.D

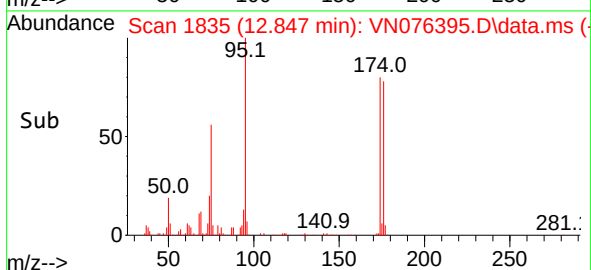
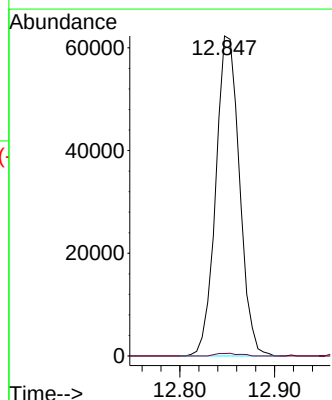
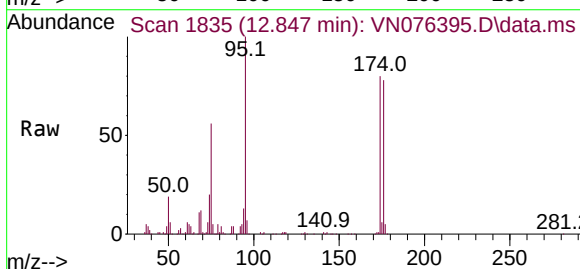
Acq: 25 Jan 2023 12:34

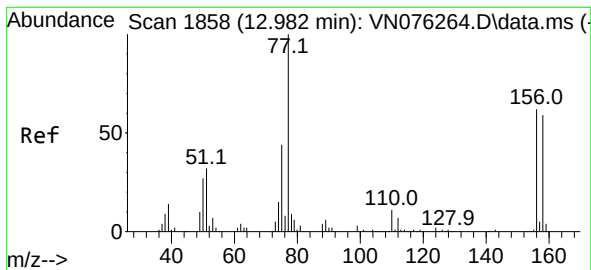
Tgt Ion: 75 Resp: 108295

Ion Ratio Lower Upper

75 100

77 0.9 75.2 225.6#





#77

Bromobenzene

Concen: Below Cal

RT: 12.982 min Scan# 1858

Delta R.T. 0.000 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-318-320

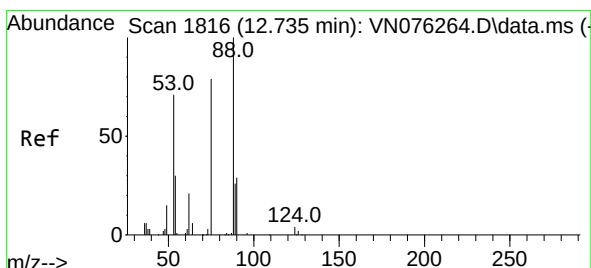
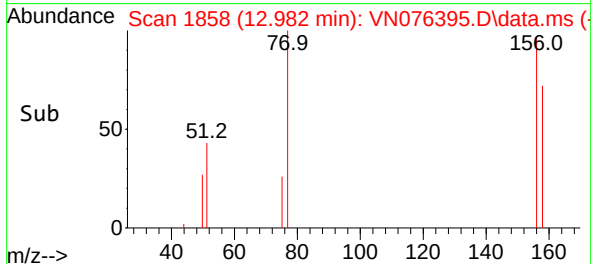
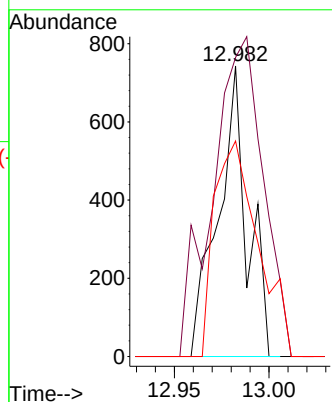
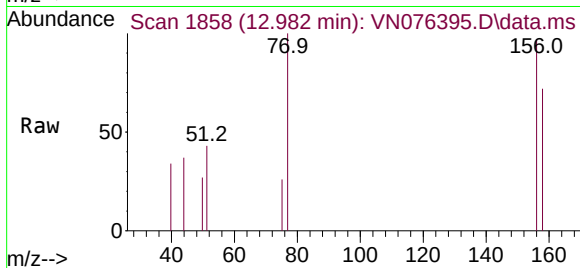
Tgt Ion:156 Resp: 799

Ion Ratio Lower Upper

156 100

77 190.6 93.4 280.2

158 111.0 48.4 145.2



#81

trans-1,4-Dichloro-2-butene

Concen: 97.428 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. 0.112 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

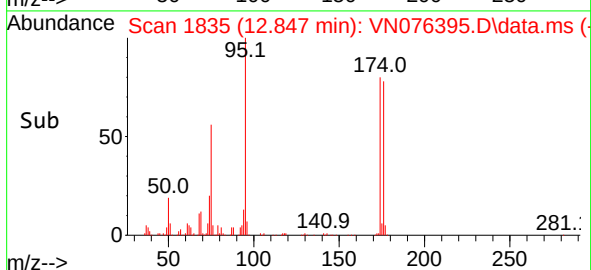
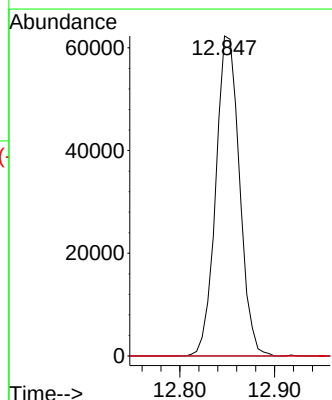
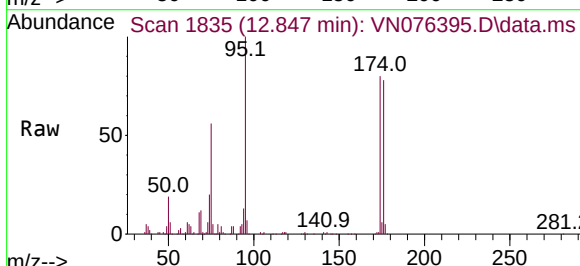
Tgt Ion: 75 Resp: 108295

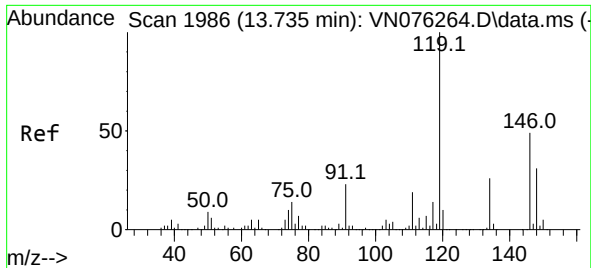
Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

89 0.0 37.0 55.6#

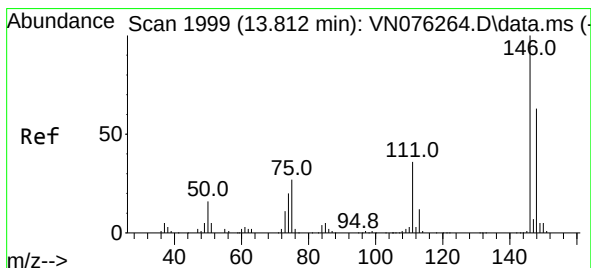
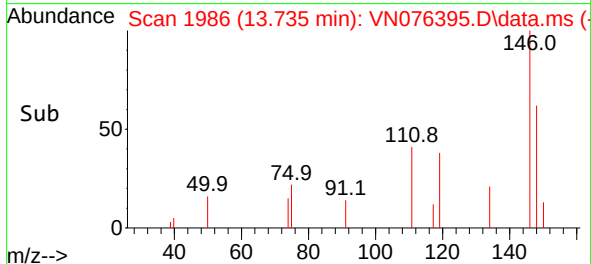
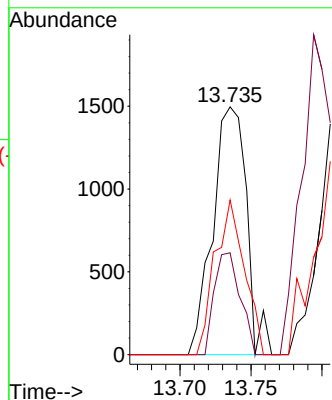
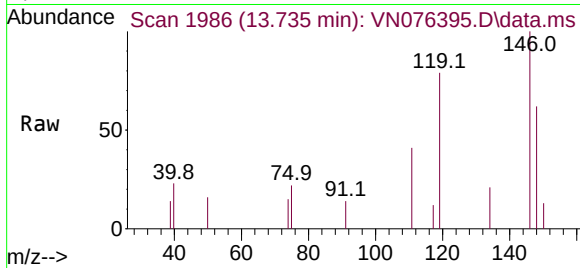




#87
 1,3-Dichlorobenzene
 Concen: 0.366 ug/l
 RT: 13.735 min Scan# 1986
 Delta R.T. 0.000 min
 Lab File: VN076395.D
 Acq: 25 Jan 2023 12:34

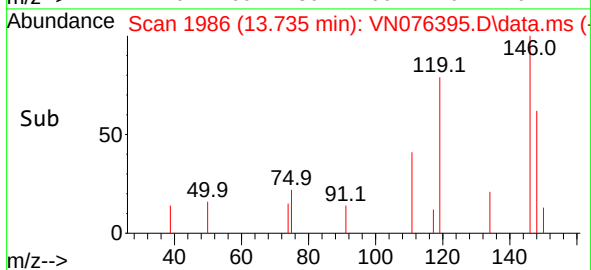
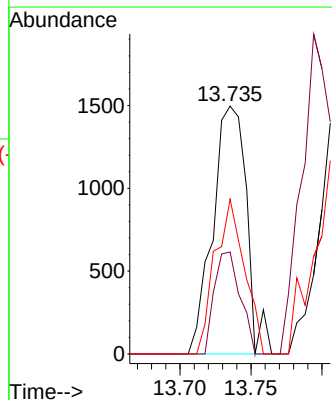
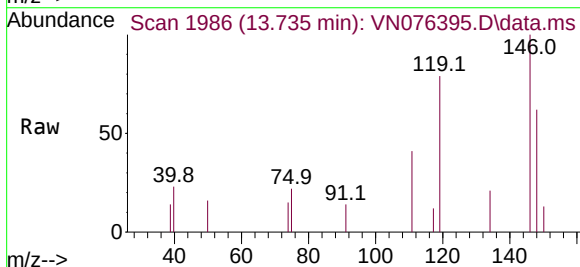
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW10-GW-318-320

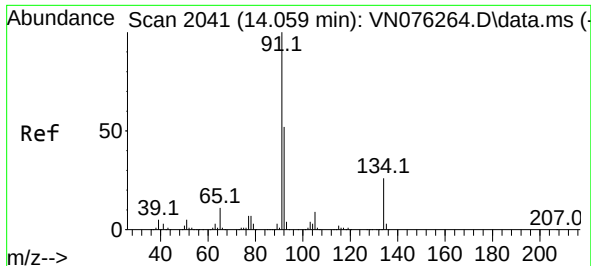
Tgt Ion:146	Resp:	2470
Ion	Ratio	Lower Upper
146	100	
111	31.5	19.9 59.7
148	54.5	31.6 94.8



#88
 1,4-Dichlorobenzene
 Concen: 0.485 ug/l
 RT: 13.735 min Scan# 1986
 Delta R.T. -0.077 min
 Lab File: VN076395.D
 Acq: 25 Jan 2023 12:34

Tgt Ion:146	Resp:	2470
Ion	Ratio	Lower Upper
146	100	
111	31.5	19.1 57.5
148	54.5	31.9 95.9





#89

n-Butylbenzene

Concen: 0.304 ug/l

RT: 14.053 min Scan# 2040

Delta R.T. -0.006 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

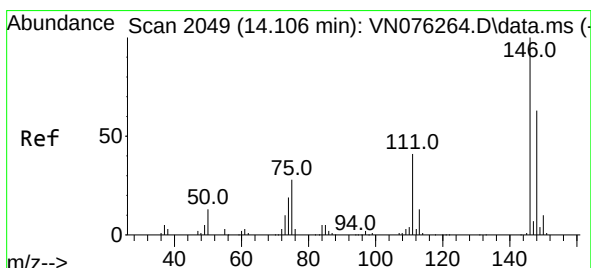
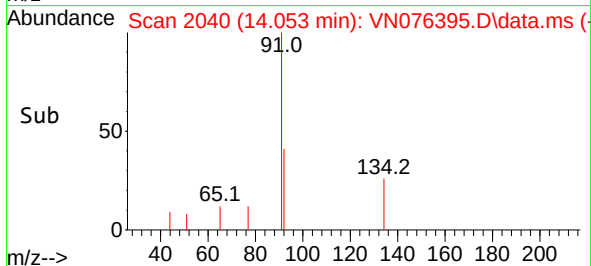
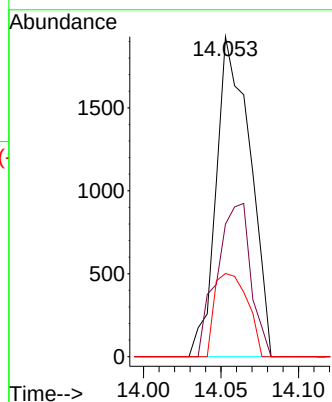
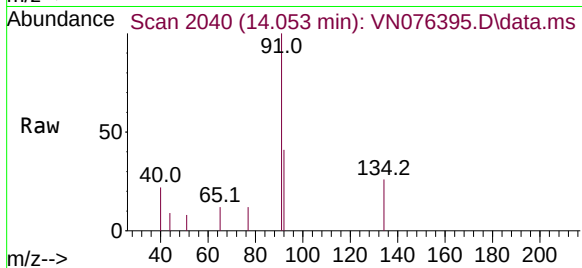
Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-318-320

Tgt Ion:	91	Resp:	2931
Ion	Ratio	Lower	Upper
91	100		
92	47.7	26.3	78.9
134	25.2	13.2	39.5



#91

1,2-Dichlorobenzene

Concen: 0.326 ug/l

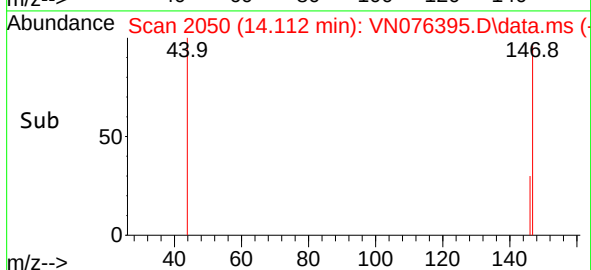
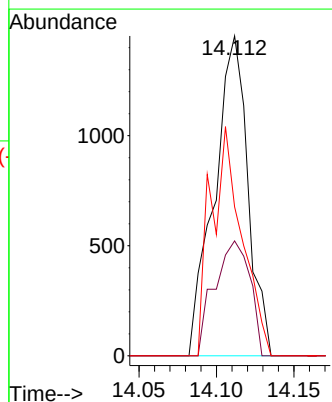
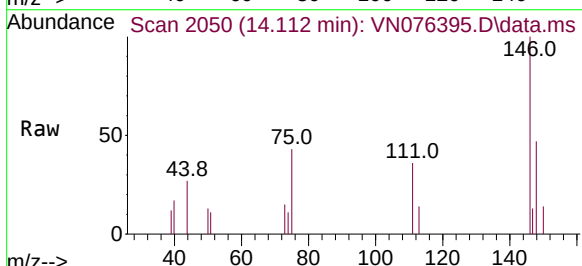
RT: 14.112 min Scan# 2050

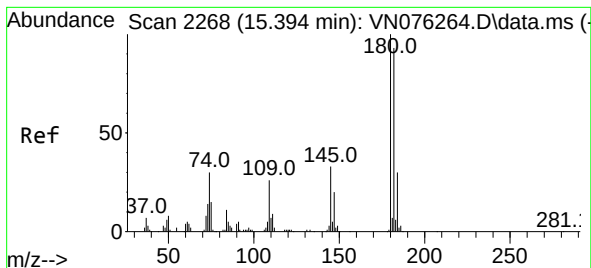
Delta R.T. 0.006 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

Tgt Ion:	146	Resp:	2191
Ion	Ratio	Lower	Upper
146	100		
111	37.9	20.3	60.8
148	66.2	31.8	95.4





#93

1,2,4-Trichlorobenzene

Concen: 2.067 ug/l

RT: 15.394 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-318-320

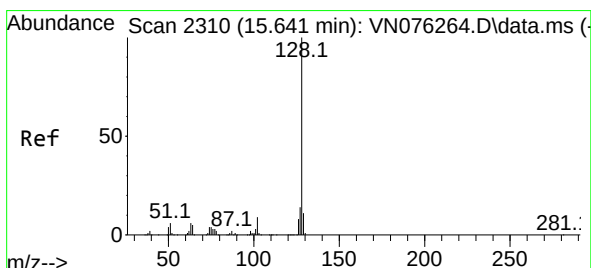
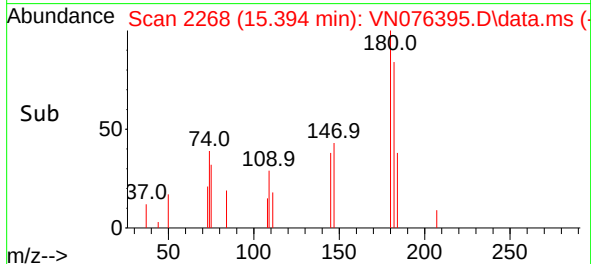
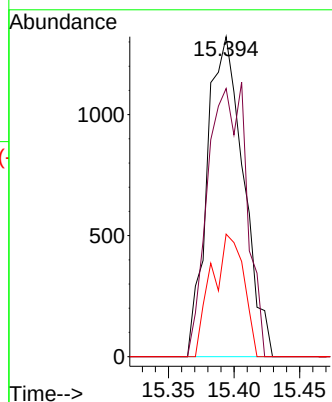
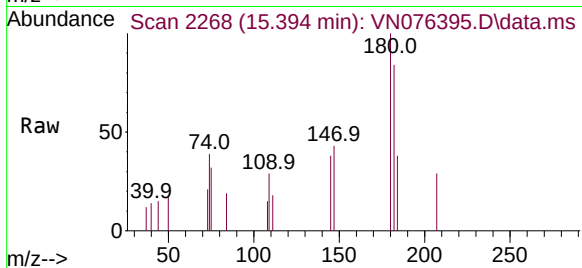
Tgt Ion:180 Resp: 2538

Ion Ratio Lower Upper

180 100

182 90.8 47.0 141.2

145 33.8 15.2 45.5



#95

Naphthalene

Concen: 2.939 ug/l

RT: 15.641 min Scan# 2310

Delta R.T. -0.000 min

Lab File: VN076395.D

Acq: 25 Jan 2023 12:34

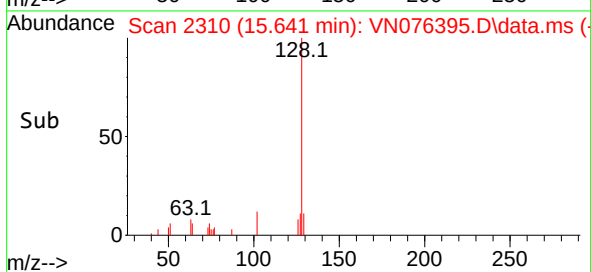
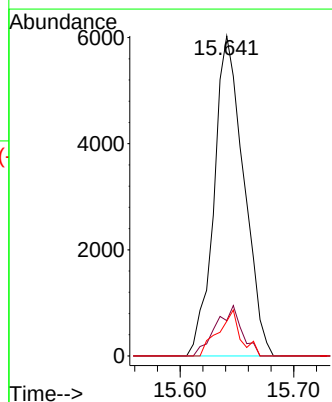
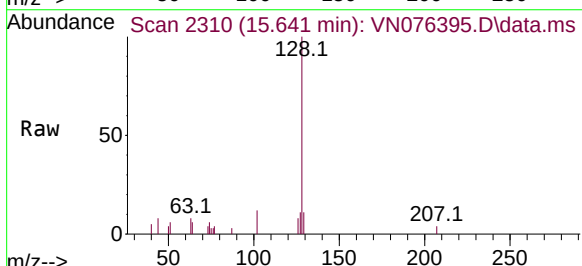
Tgt Ion:128 Resp: 10974

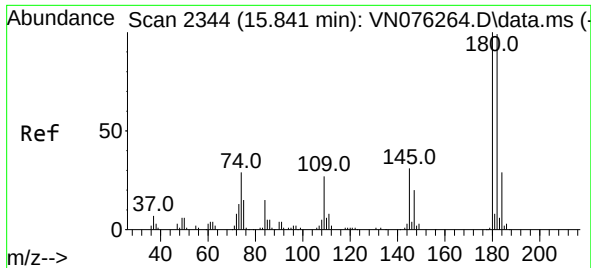
Ion Ratio Lower Upper

128 100

127 13.8 10.3 15.5

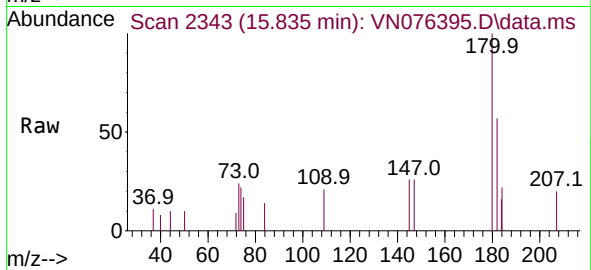
129 10.9 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 2.136 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN076395.D
 Acq: 25 Jan 2023 12:34

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW10-GW-318-320



Tgt Ion:180	Resp:	3110
Ion	Ratio	Lower Upper
180	100	
182	84.5	47.5 142.5
145	25.9	15.9 47.6

