

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012523\
 Data File : VN076404.D
 Acq On : 25 Jan 2023 16:10
 Operator : JC\MD
 Sample : 01291-07RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB-RW10-GW-378-380RE

Quant Time: Jan 26 07:18:17 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)

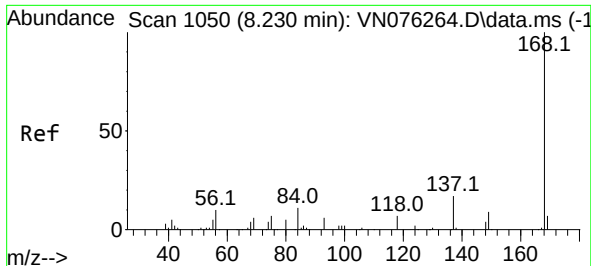
Internal Standards						
1) Pentafluorobenzene	8.235	168	376379	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	605919	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	529415	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	194660	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	221140	52.474	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.940%	
35) Dibromofluoromethane	8.177	113	189100	49.891	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.780%	
50) Toluene-d8	10.571	98	708041	50.582	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.160%	
62) 4-Bromofluorobenzene	12.853	95	231120	50.577	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 101.160%	
Target Compounds						Qvalue
3) Chloromethane	2.383	50	877	0.220	ug/l	95
11) Tert butyl alcohol	5.536	59	483	0.857	ug/l #	72
16) Acetone	4.465	43	2257	1.598	ug/l	97
19) Methyl tert-butyl Ether	5.812	73	2965	0.253	ug/l #	63
20) Methylene Chloride	5.312	84	53	Below Cal	#	11
31) Cyclohexane	8.230	56	7815	1.207	ug/l #	7
36) 1,1-Dichloropropene	8.230	75	29439	5.466	ug/l #	50
38) Carbon Tetrachloride	8.230	117	38691	6.442	ug/l #	17
51) 4-Methyl-2-Pentanone	10.571	43	2775	0.673	ug/l #	1
71) Bromoform	12.853	173	1711	0.569	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	122171	34.151	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	122171	104.424	ug/l #	11
93) 1,2,4-Trichlorobenzene	15.400	180	79	1.328	ug/l #	13
95) Naphthalene	15.629	128	371	1.874	ug/l #	69

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

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The chromatogram displays the abundance of various chemical compounds over time. The y-axis represents Abundance, ranging from 0 to 1,200,000. The x-axis represents Time in minutes, ranging from 3.00 to 16.00. The following table lists the compounds and their approximate retention times:

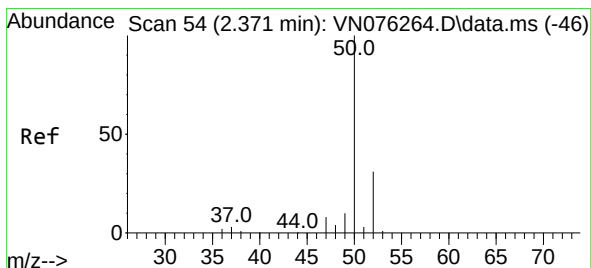
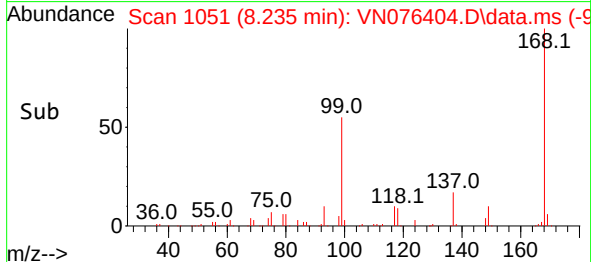
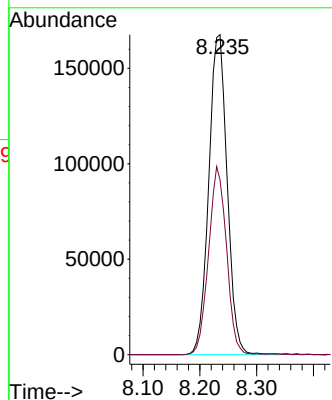
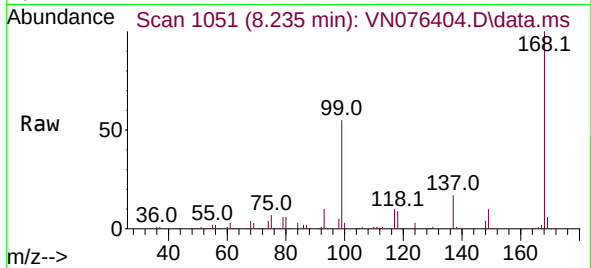
Compound	Retention Time (min)
Chloromethane, P	~2.5
Acetone, T	~4.5
Tert butyl alcohol, T	~5.5
Methyl tert-butyl Ether, T	~5.8
Dibromodifluoromethane, S	~8.2
Perfluorobenzene, T	~8.3
1,2-Dichloroethane-d4, S	~8.5
1,4-Difluorobenzene, I	~9.2
1,2,4-Trichlorobenzene, T	~10.5
Naphthalene, T	~10.6
Chlorobenzene-d5, I	~12.0
1,4-Dichlorobenzene-d4, I	~13.8



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN076404.D
Acq: 25 Jan 2023 16:10

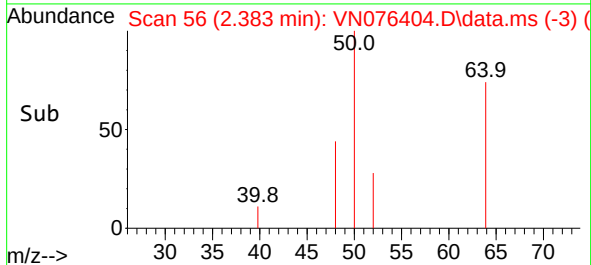
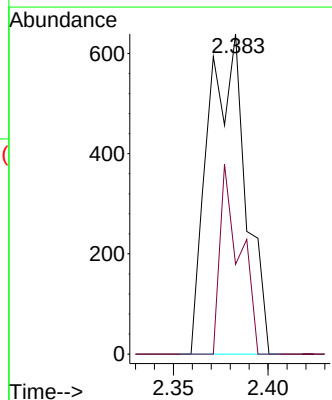
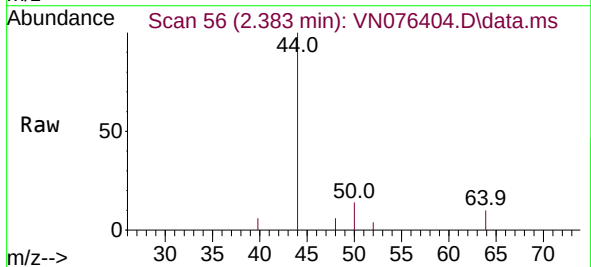
Instrument :
MSVOA_N
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BP-VPB-RW10-GW-378-380RE

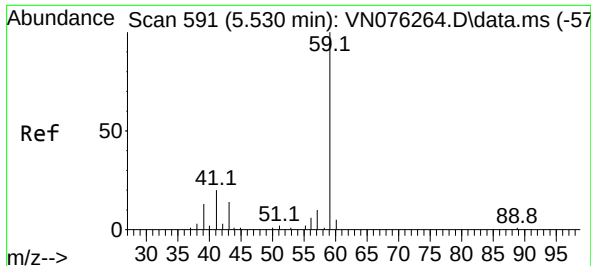
Tgt Ion:168 Resp: 376379
Ion Ratio Lower Upper
168 100
99 54.6 41.6 62.4



#3
Chloromethane
Concen: 0.220 ug/l
RT: 2.383 min Scan# 56
Delta R.T. 0.012 min
Lab File: VN076404.D
Acq: 25 Jan 2023 16:10

Tgt Ion: 50 Resp: 877
Ion Ratio Lower Upper
50 100
52 28.0 24.8 37.2

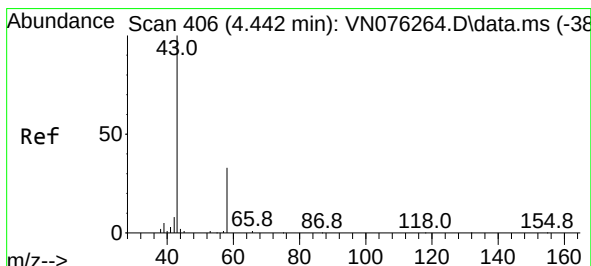
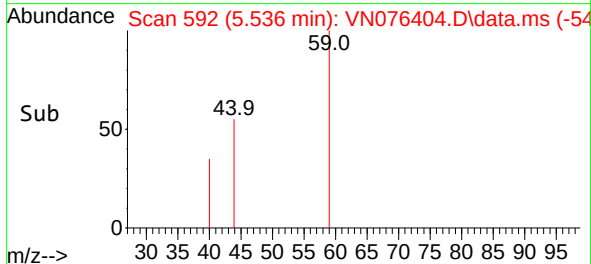
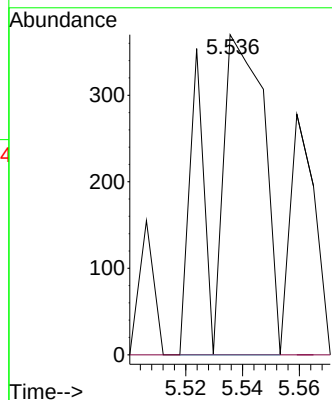
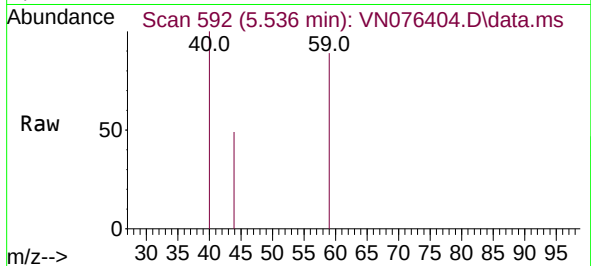




#11
Tert butyl alcohol
Concen: 0.857 ug/l
RT: 5.536 min Scan# 591
Delta R.T. 0.006 min
Lab File: VN076404.D
Acq: 25 Jan 2023 16:10

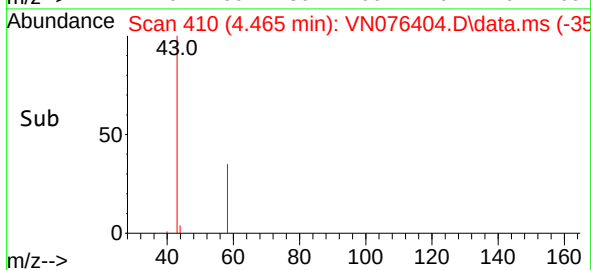
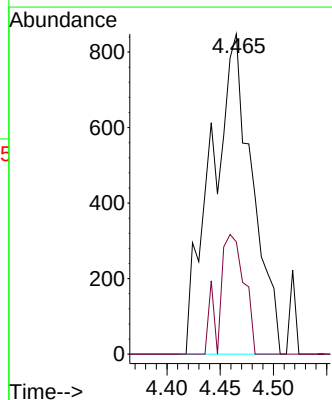
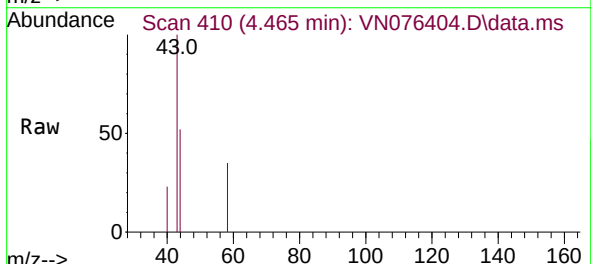
Instrument :
MSVOA_N
ClientSampleId :
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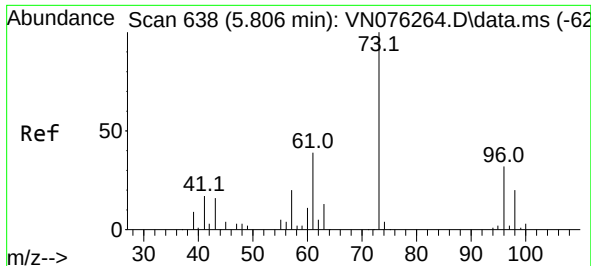
Tgt Ion: 59 Resp: 483
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 1.598 ug/l
RT: 4.465 min Scan# 410
Delta R.T. 0.023 min
Lab File: VN076404.D
Acq: 25 Jan 2023 16:10

Tgt Ion: 43 Resp: 2257
Ion Ratio Lower Upper
43 100
58 35.0 26.7 40.1

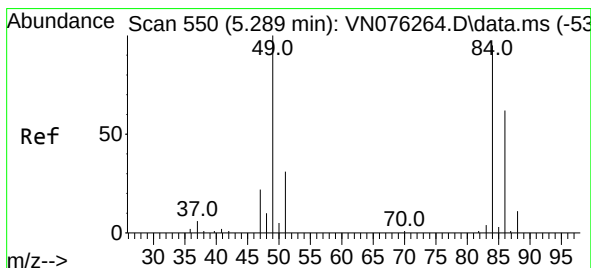
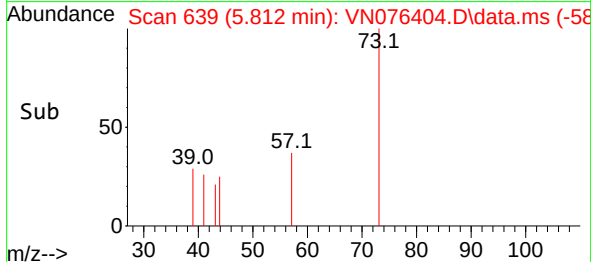
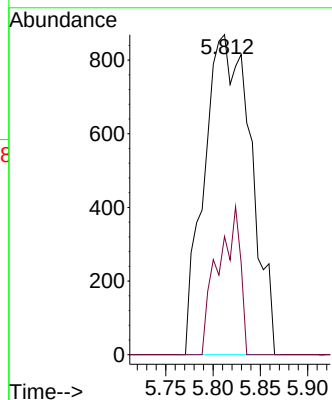
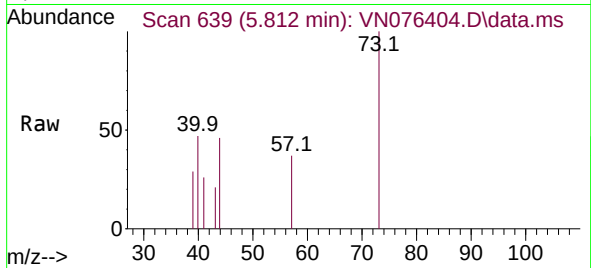




#19
Methyl tert-butyl Ether
Concen: 0.253 ug/l
RT: 5.812 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN076404.D
Acq: 25 Jan 2023 16:10

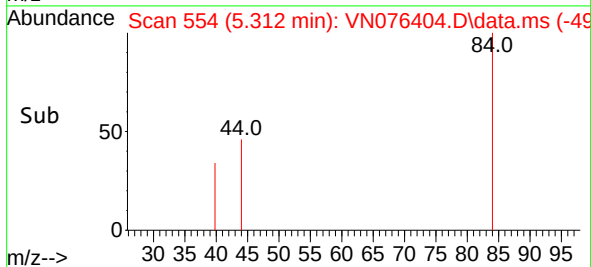
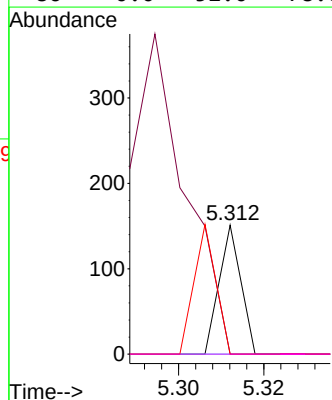
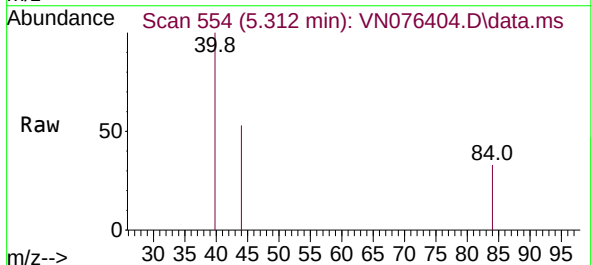
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW10-GW-378-380RE

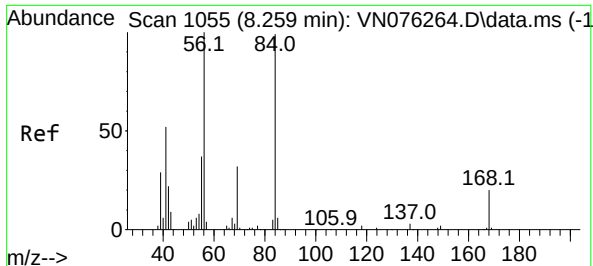
Tgt Ion: 73 Resp: 2965
Ion Ratio Lower Upper
73 100
57 36.9 15.9 23.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.312 min Scan# 554
Delta R.T. 0.023 min
Lab File: VN076404.D
Acq: 25 Jan 2023 16:10

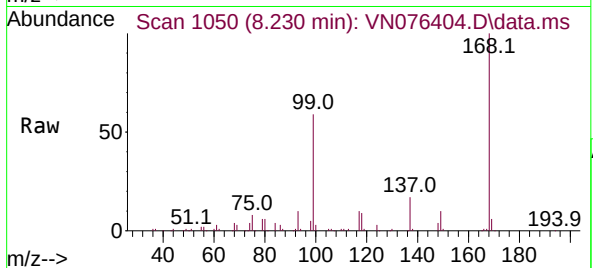
Tgt Ion: 84 Resp: 53
Ion Ratio Lower Upper
84 100
49 0.0 84.5 126.7#
51 0.0 26.0 39.0#
86 0.0 52.0 78.0#



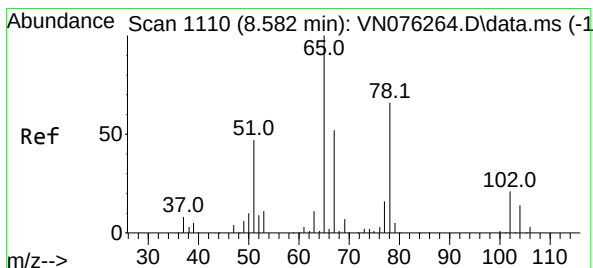
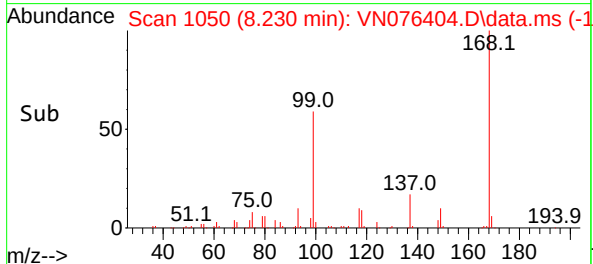
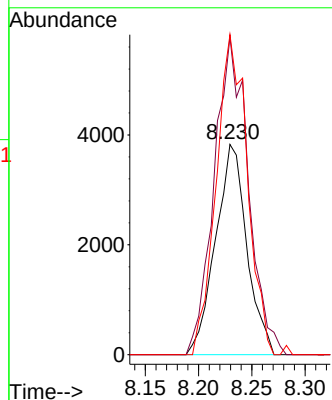


#31
Cyclohexane
Concen: 1.207 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN076404.D
Acq: 25 Jan 2023 16:10

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW10-GW-378-380RE

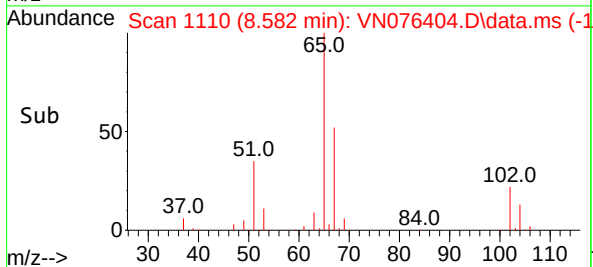
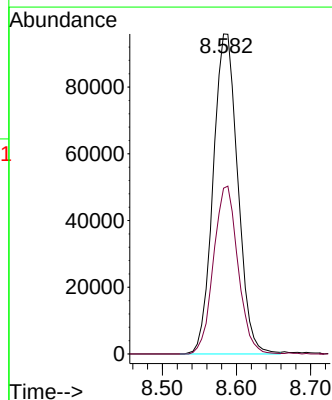
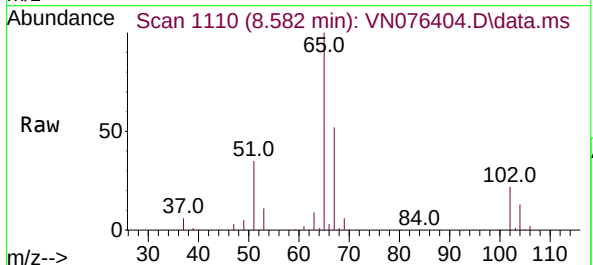


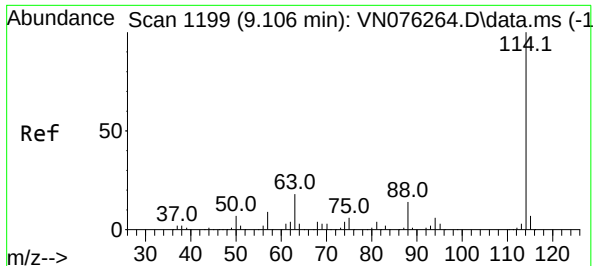
Tgt Ion: 56 Resp: 7815
Ion Ratio Lower Upper
56 100
69 151.1 25.8 38.8#
84 152.2 79.0 118.4#



#33
1,2-Dichloroethane-d4
Concen: 52.474 ug/l
RT: 8.582 min Scan# 1110
Delta R.T. 0.000 min
Lab File: VN076404.D
Acq: 25 Jan 2023 16:10

Tgt Ion: 65 Resp: 221140
Ion Ratio Lower Upper
65 100
67 52.1 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: VN076404.D

Acq: 25 Jan 2023 16:10

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-378-380RE

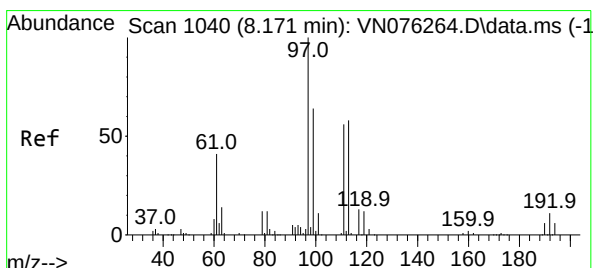
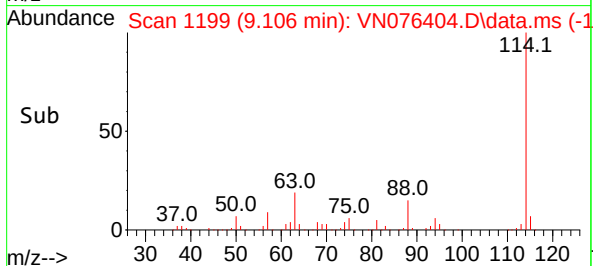
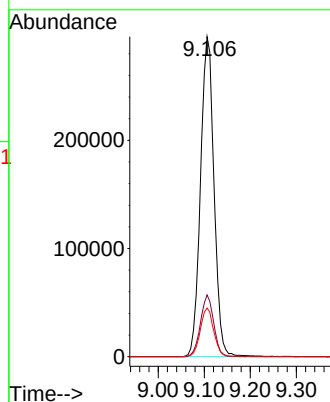
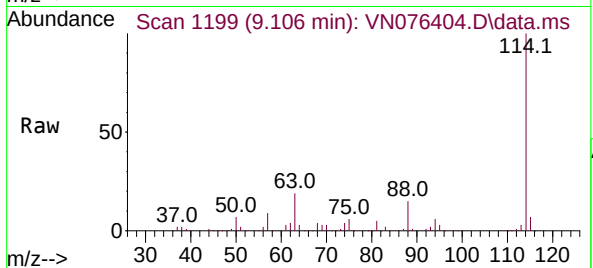
Tgt Ion:114 Resp: 605919

Ion Ratio Lower Upper

114 100

63 19.3 0.0 35.8

88 15.2 0.0 28.0



#35

Dibromofluoromethane

Concen: 49.891 ug/l

RT: 8.177 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VN076404.D

Acq: 25 Jan 2023 16:10

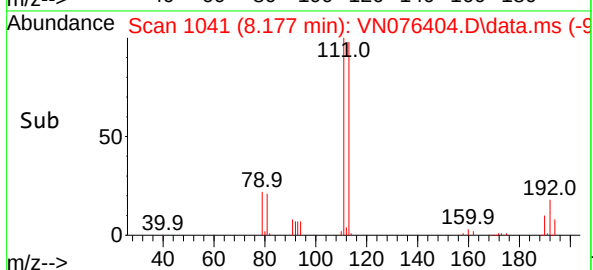
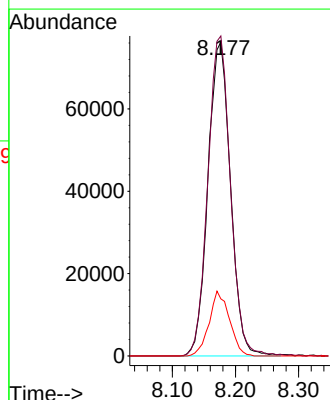
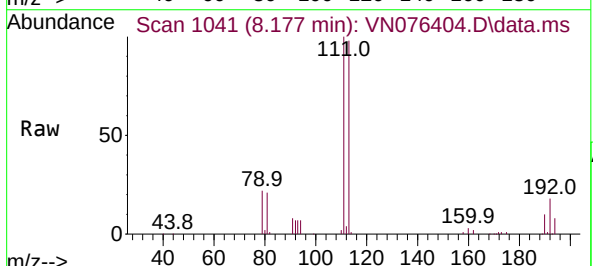
Tgt Ion:113 Resp: 189100

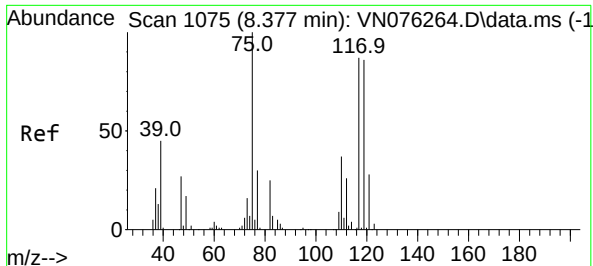
Ion Ratio Lower Upper

113 100

111 102.4 82.7 124.1

192 18.6 15.6 23.4





#36

1,1-Dichloropropene

Concen: 5.466 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076404.D

Acq: 25 Jan 2023 16:10

Instrument :

MSVOA_N

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BP-VPB-RW10-GW-378-380RE

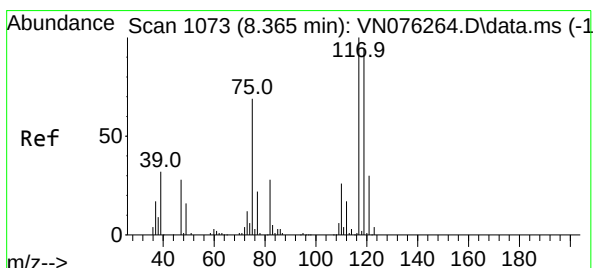
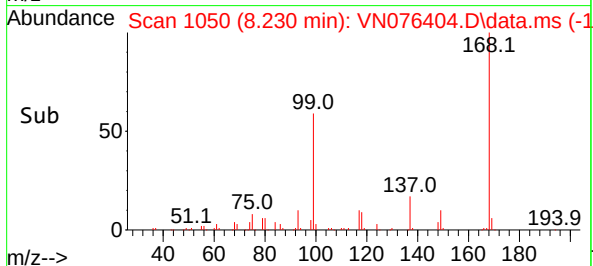
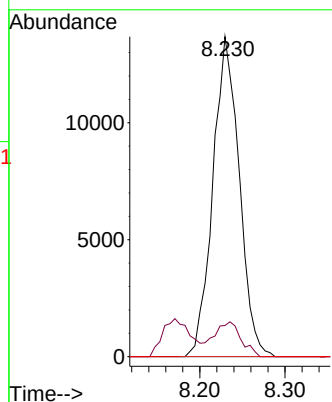
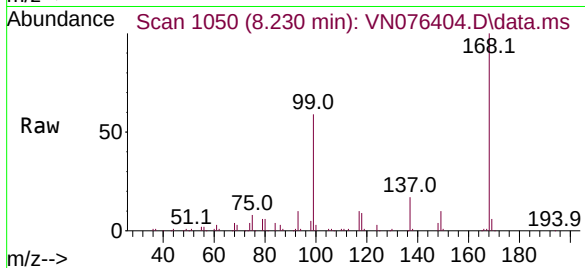
Tgt Ion: 75 Resp: 29439

Ion Ratio Lower Upper

75 100

110 10.8 18.8 56.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.442 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.135 min

Lab File: VN076404.D

Acq: 25 Jan 2023 16:10

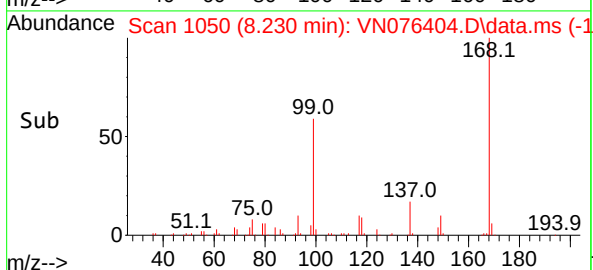
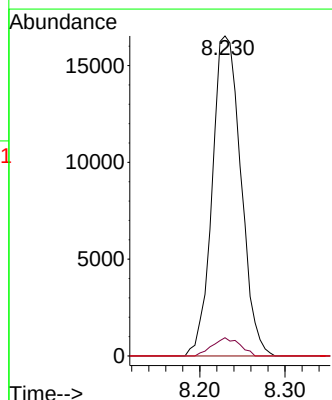
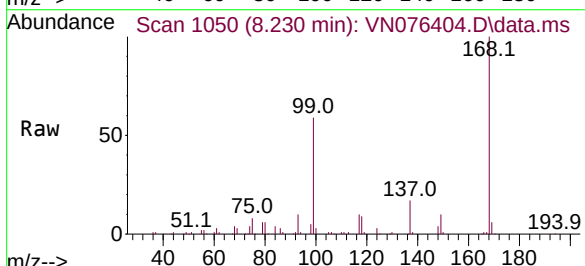
Tgt Ion: 117 Resp: 38691

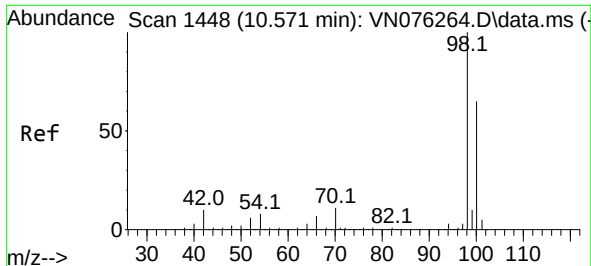
Ion Ratio Lower Upper

117 100

119 5.7 75.4 113.0#

121 0.0 24.2 36.2#

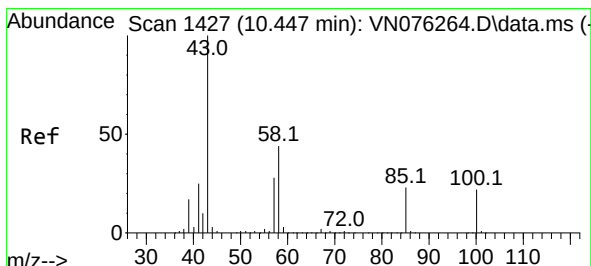
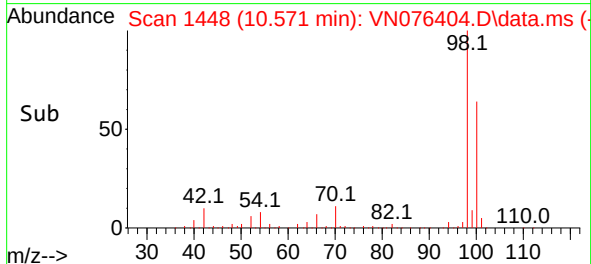
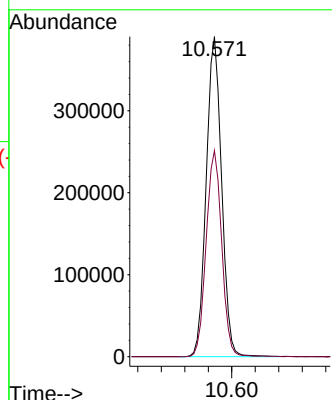
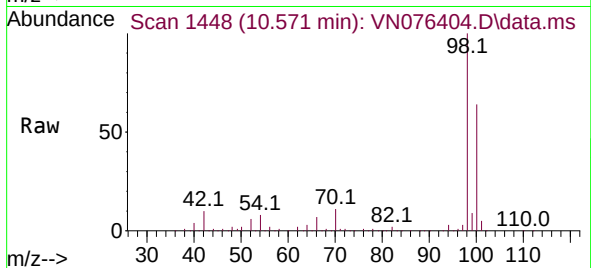




#50
Toluene-d8
Concen: 50.582 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076404.D
Acq: 25 Jan 2023 16:10

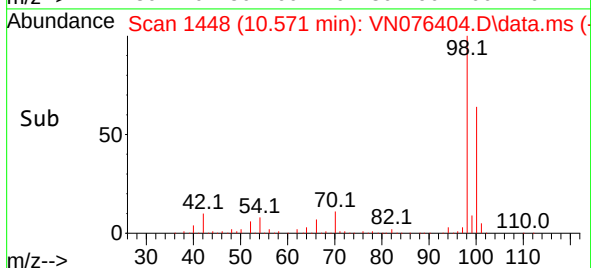
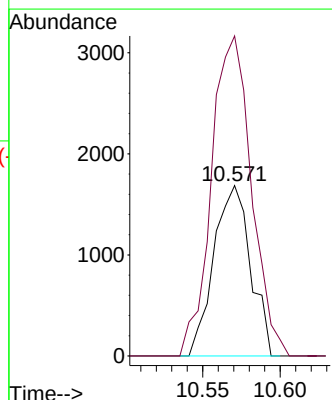
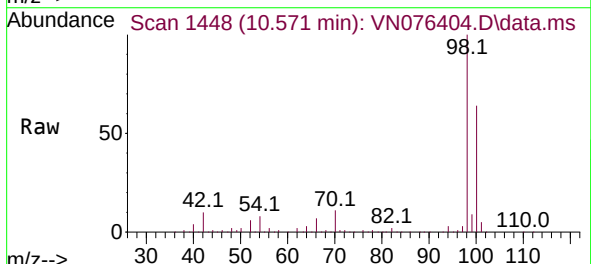
Instrument :
MSVOA_N
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BP-VPB-RW10-GW-378-380RE

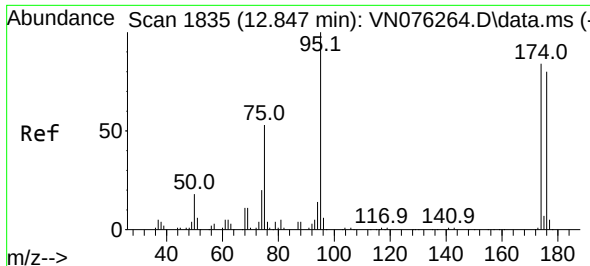
Tgt Ion: 98 Resp: 708041
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 0.673 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. 0.124 min
Lab File: VN076404.D
Acq: 25 Jan 2023 16:10

Tgt Ion: 43 Resp: 2775
Ion Ratio Lower Upper
43 100
58 204.9 35.1 52.7#





#62

4-Bromofluorobenzene

Concen: 50.577 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.006 min

Lab File: VN076404.D

Acq: 25 Jan 2023 16:10

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-378-380RE

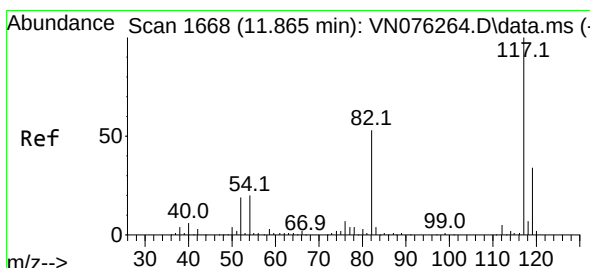
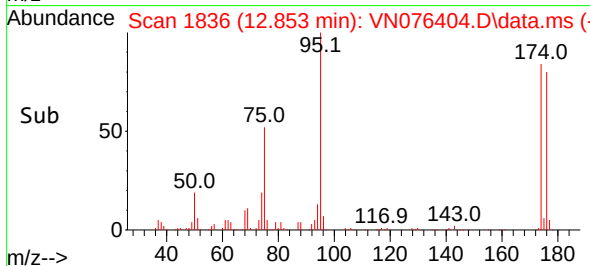
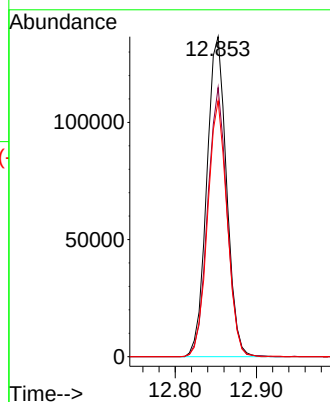
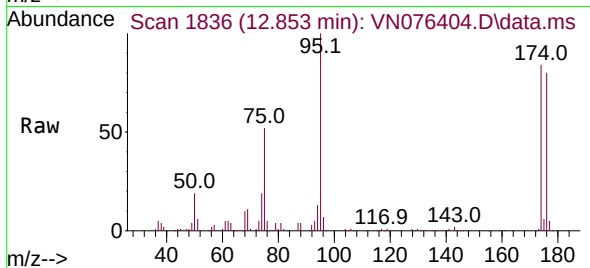
Tgt Ion: 95 Resp: 231120

Ion Ratio Lower Upper

95 100

174 82.1 0.0 174.6

176 78.5 0.0 167.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.870 min Scan# 1669

Delta R.T. 0.005 min

Lab File: VN076404.D

Acq: 25 Jan 2023 16:10

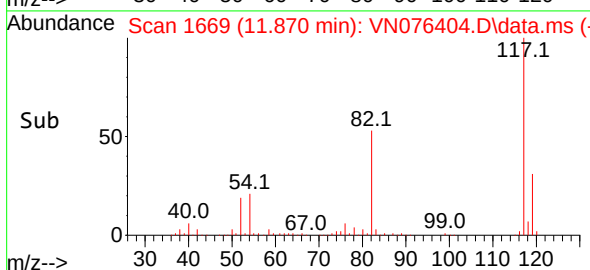
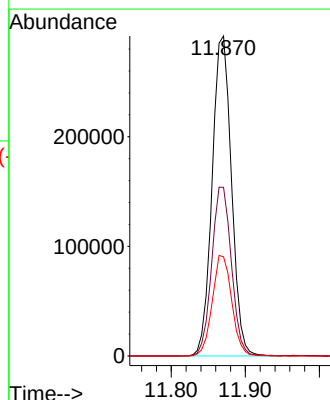
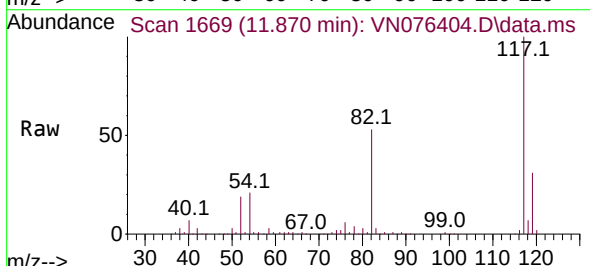
Tgt Ion: 117 Resp: 529415

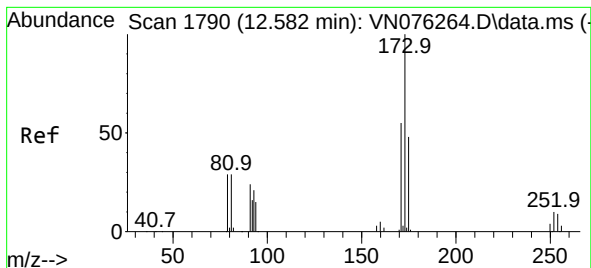
Ion Ratio Lower Upper

117 100

82 52.7 42.2 63.2

119 31.0 26.9 40.3





#71

Bromoform

Concen: 0.569 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN076404.D

Acq: 25 Jan 2023 16:10

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB-RW10-GW-378-380RE

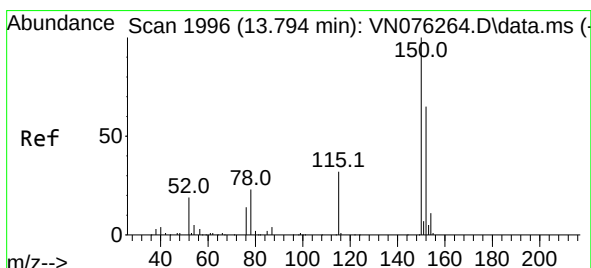
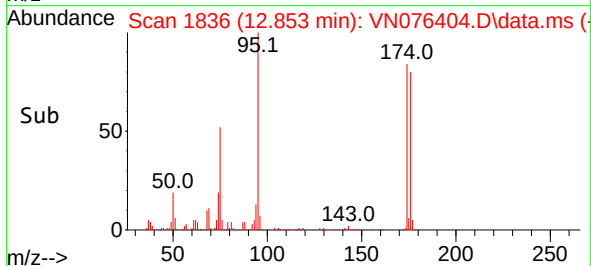
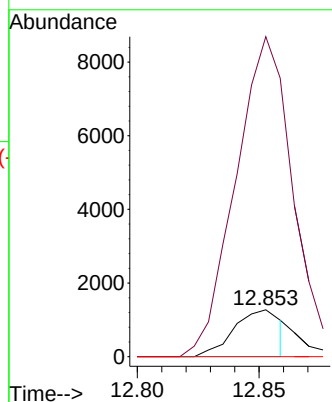
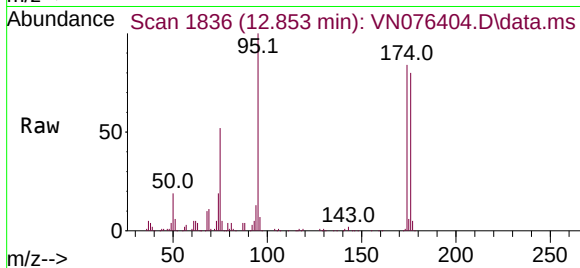
Tgt Ion:173 Resp: 1711

Ion Ratio Lower Upper

173 100

175 678.2 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: VN076404.D

Acq: 25 Jan 2023 16:10

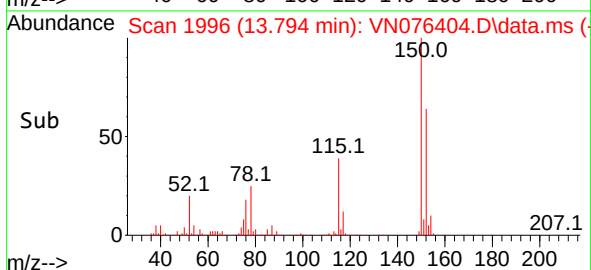
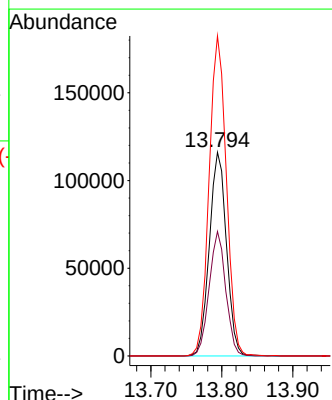
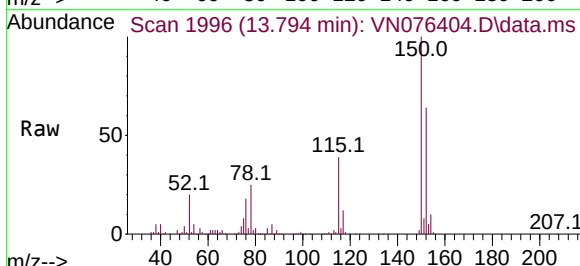
Tgt Ion:152 Resp: 194660

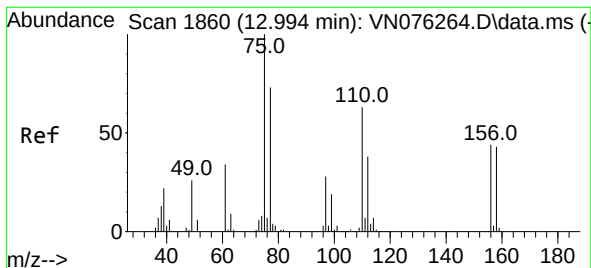
Ion Ratio Lower Upper

152 100

115 59.2 29.6 88.9

150 157.8 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 34.151 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076404.D

Acq: 25 Jan 2023 16:10

Instrument :

MSVOA_N

ClientSampleId :

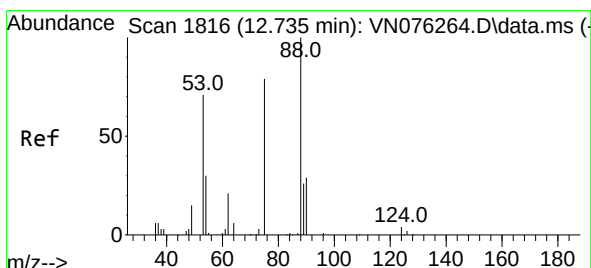
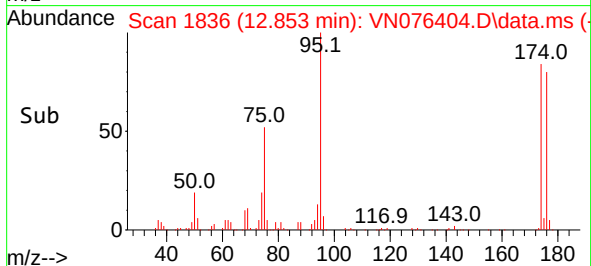
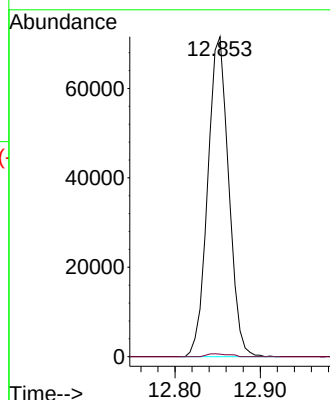
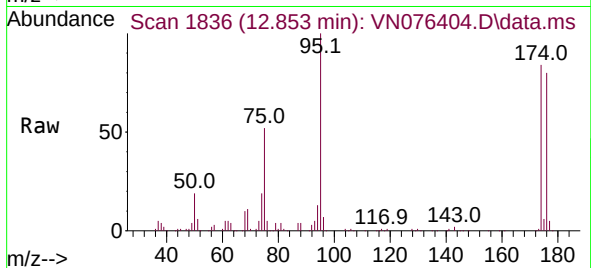
BP-VPB-RW10-GW-378-380RE

Tgt Ion: 75 Resp: 122171

Ion Ratio Lower Upper

75 100

77 1.0 75.2 225.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 104.424 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.118 min

Lab File: VN076404.D

Acq: 25 Jan 2023 16:10

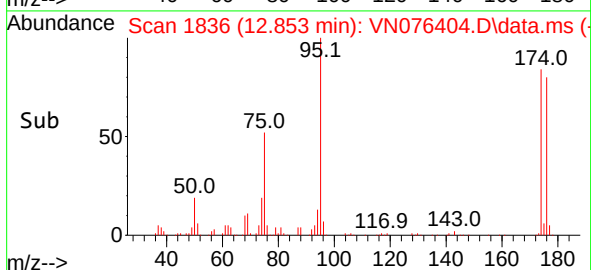
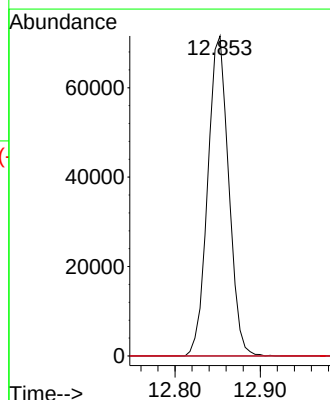
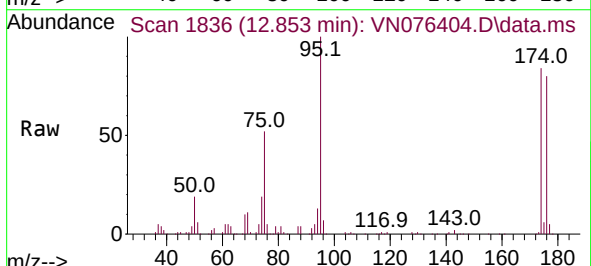
Tgt Ion: 75 Resp: 122171

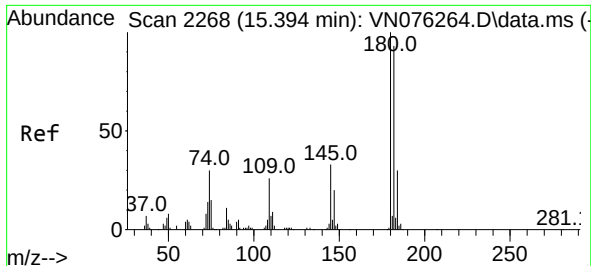
Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.8#

89 0.0 37.0 55.6#

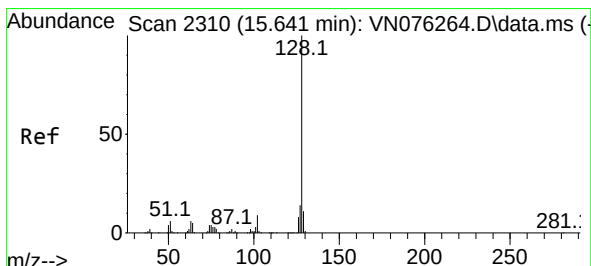
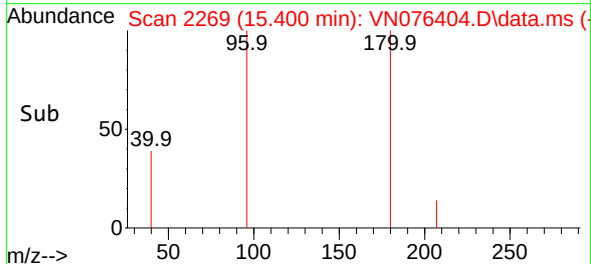
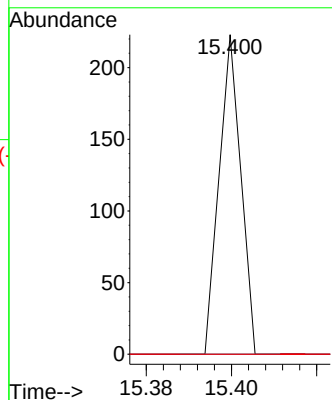
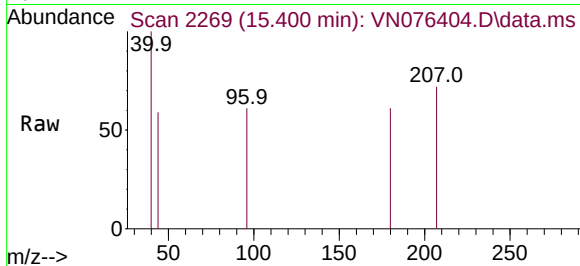




#93
1,2,4-Trichlorobenzene
Concen: 1.328 ug/l
RT: 15.400 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN076404.D
Acq: 25 Jan 2023 16:10

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB-RW10-GW-378-380RE

Tgt Ion:180 Resp: 79
Ion Ratio Lower Upper
180 100
182 0.0 47.0 141.2#
145 0.0 15.2 45.5#



#95
Naphthalene
Concen: 1.874 ug/l
RT: 15.629 min Scan# 2308
Delta R.T. -0.012 min
Lab File: VN076404.D
Acq: 25 Jan 2023 16:10

Tgt Ion:128 Resp: 371
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 13.0#

