

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010323\
 Data File : VN076065.D
 Acq On : 03 Jan 2023 15:50
 Operator : JC\MD
 Sample : N6232-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13

Quant Time: Jan 04 04:19:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

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

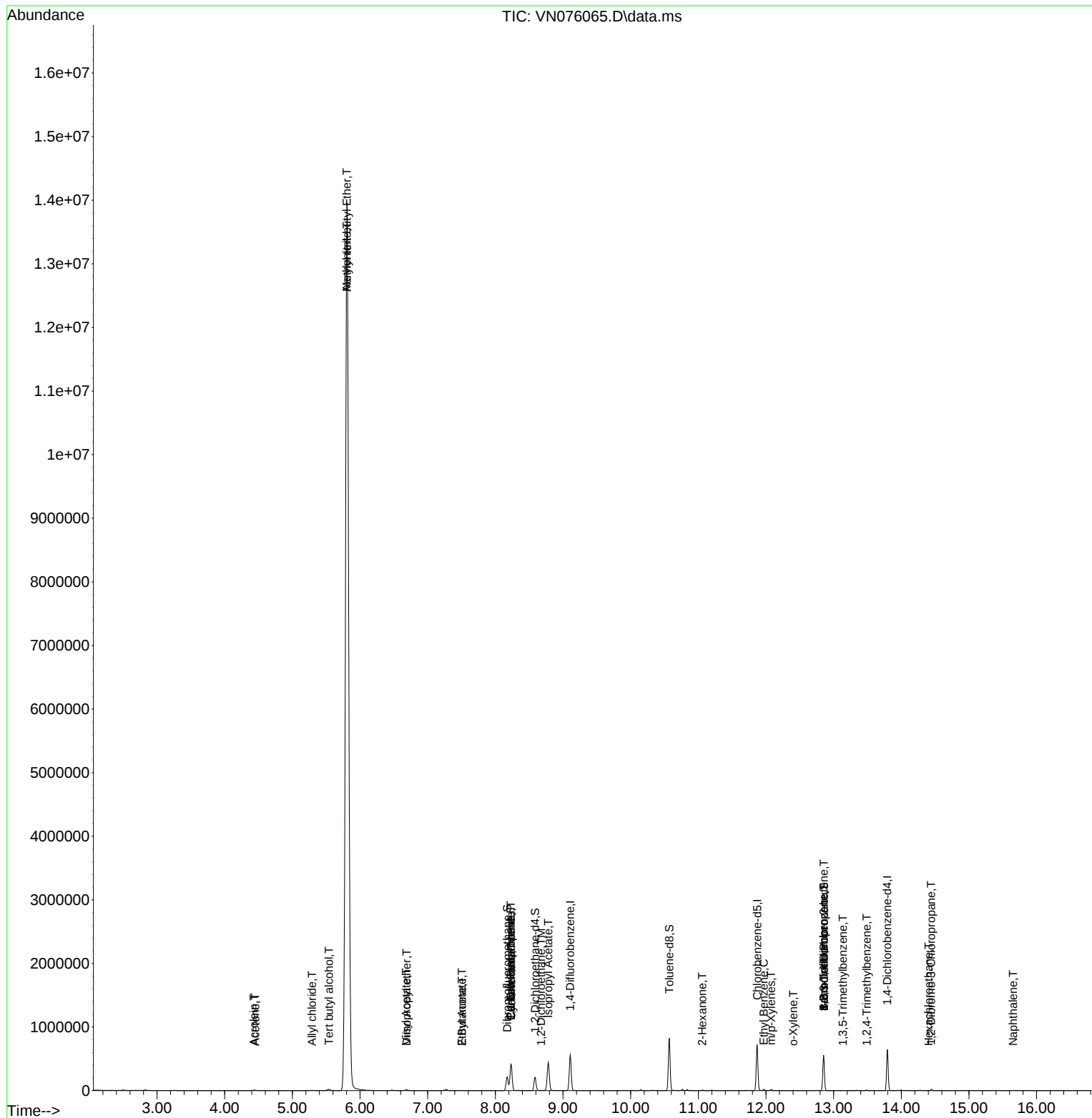
Internal Standards						
1) Pentafluorobenzene	8.230	168	328647	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	514948	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	441189	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	182463	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	166160	46.473	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.940%		
35) Dibromofluoromethane	8.177	113	154427	48.425	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.840%		
50) Toluene-d8	10.571	98	584358	49.010	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.020%		
62) 4-Bromofluorobenzene	12.853	95	183827	46.549	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.100%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.542	59	36976	73.088	ug/l #	72
13) Acrolein	4.430	56	957	1.543	ug/l	98
14) Allyl chloride	5.289	41	1680	0.493	ug/l #	42
15) Acrylonitrile	5.806	53	232823	168.639	ug/l #	29
16) Acetone	4.453	43	6631	5.380	ug/l #	64
19) Methyl tert-butyl Ether	5.806	73	24145737	2517.292	ug/l	100
20) Methylene Chloride	5.283	84	242	Below Cal	#	30
22) Diisopropyl ether	6.689	45	14735	1.781	ug/l	94
23) Vinyl Acetate	6.683	43	8100	1.455	ug/l #	65
25) 2-Butanone	7.506	43	1152	0.668	ug/l #	40
31) Cyclohexane	8.235	56	6990	1.365	ug/l #	18
36) 1,1-Dichloropropene	8.230	75	22307	5.266	ug/l #	50
37) Ethyl Acetate	7.506	43	1152	0.339	ug/l #	65
38) Carbon Tetrachloride	8.230	117	32438	6.842	ug/l #	16
42) 1,2-Dichloroethane	8.677	62	1228	0.283	ug/l #	72
43) Isopropyl Acetate	8.782	43	109669	19.538	ug/l #	3
59) 2-Hexanone	11.059	43	5963	2.409	ug/l	70
67) Ethyl Benzene	11.965	91	12750	0.834	ug/l	95
68) m/p-Xylenes	12.076	106	6027	0.996	ug/l	90
69) o-Xylene	12.406	106	1317	0.220	ug/l	93
71) Bromoform	12.853	173	1492	0.611	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	91981	25.008	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.135	105	2550	0.231	ug/l	77
81) trans-1,4-Dichloro-2-b...	12.853	75	91981	90.018	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.488	105	6667	0.609	ug/l	99
90) Hexachloroethane	14.406	117	457	0.229	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.441	75	234	0.324	ug/l #	1
95) Naphthalene	15.653	128	3394	2.504	ug/l #	90

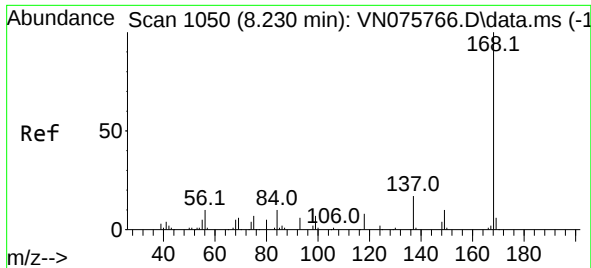
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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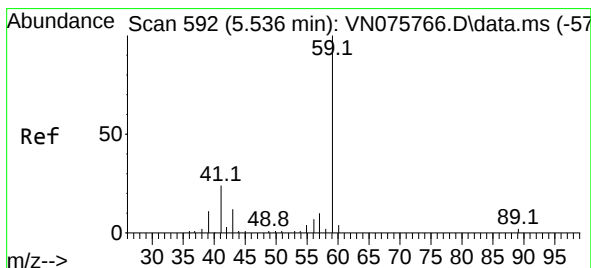
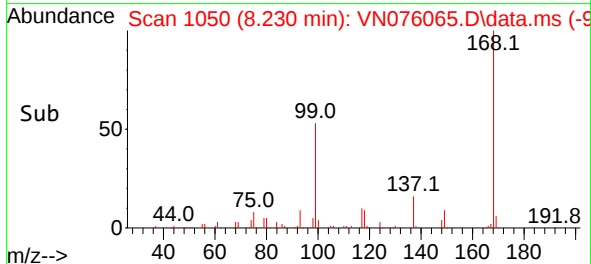
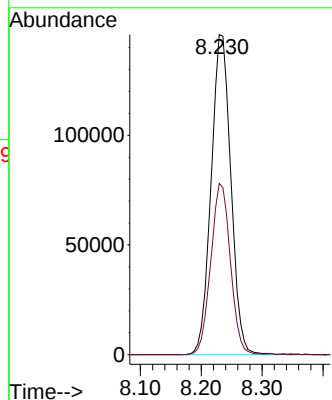
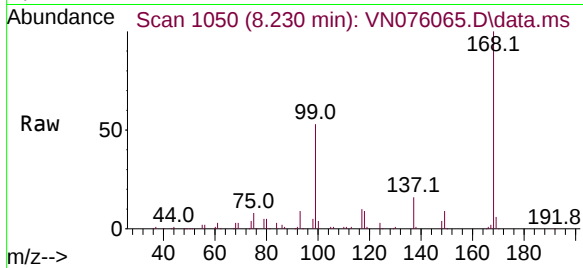




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.000 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

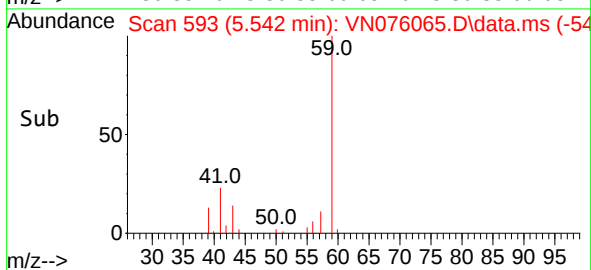
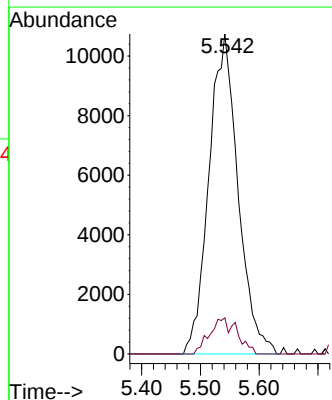
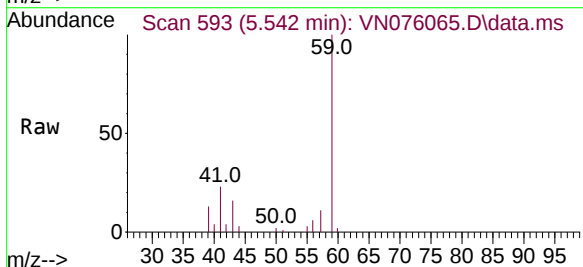
Instrument :
MSVOA_N
ClientSampleId :
MW-13

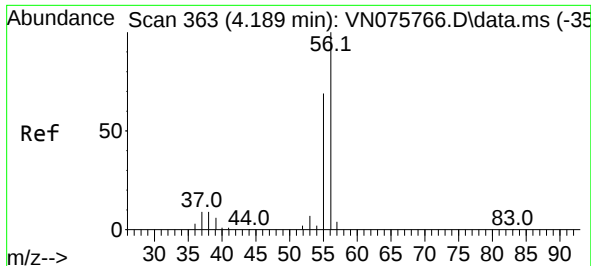
Tgt Ion:168 Resp: 328647
Ion Ratio Lower Upper
168 100
99 53.5 44.2 66.4



#11
Tert butyl alcohol
Concen: 73.088 ug/l
RT: 5.542 min Scan# 593
Delta R.T. 0.006 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

Tgt Ion: 59 Resp: 36976
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 1.543 ug/l

RT: 4.430 min Scan# 404

Delta R.T. 0.241 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

Instrument :

MSVOA_N

ClientSampleId :

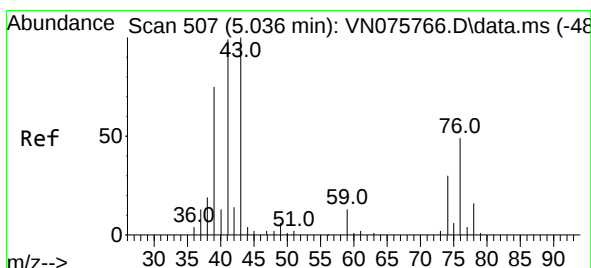
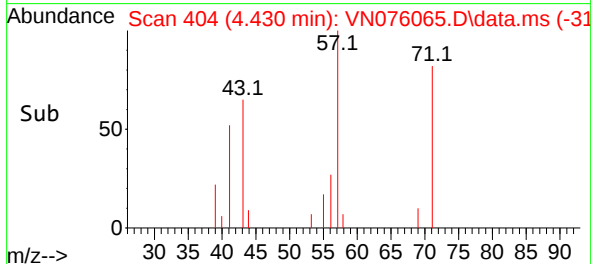
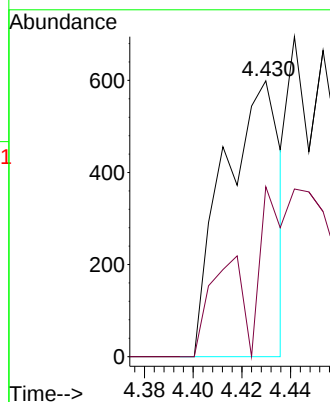
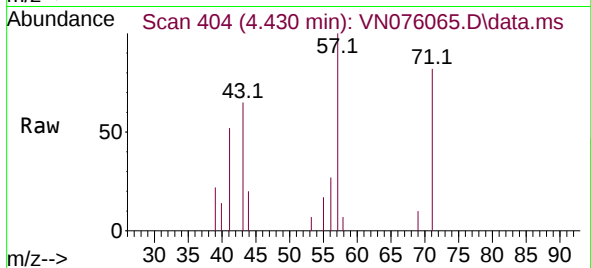
MW-13

Tgt Ion: 56 Resp: 957

Ion Ratio Lower Upper

56 100

55 70.1 54.8 82.2



#14

Allyl chloride

Concen: 0.493 ug/l

RT: 5.289 min Scan# 550

Delta R.T. 0.253 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

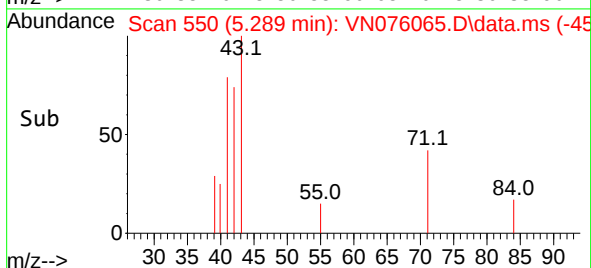
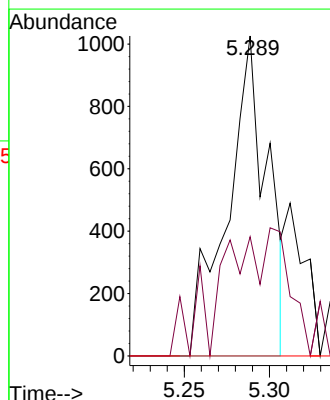
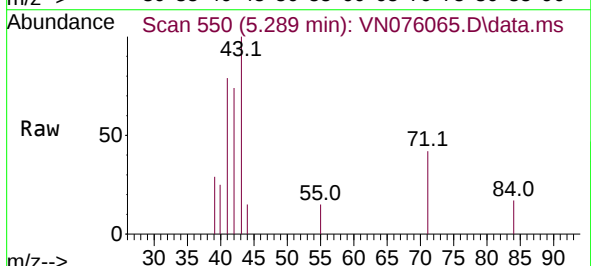
Tgt Ion: 41 Resp: 1680

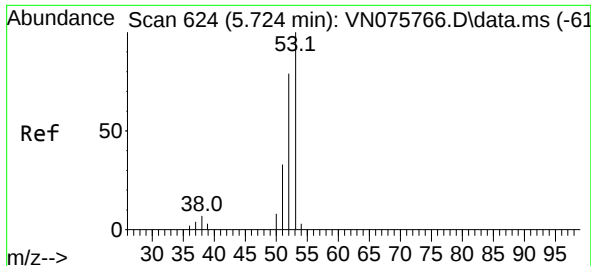
Ion Ratio Lower Upper

41 100

39 29.5 58.3 87.5#

76 0.0 35.8 53.6#





#15

Acrylonitrile

Concen: 168.639 ug/l

RT: 5.806 min Scan# 61

Delta R.T. 0.082 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

Instrument :

MSVOA_N

ClientSampleId :

MW-13

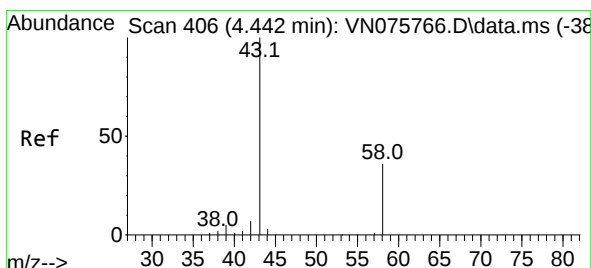
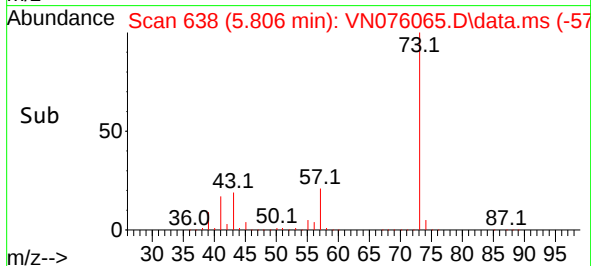
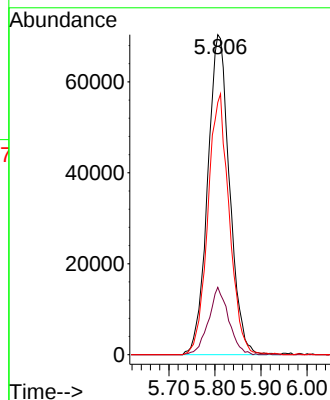
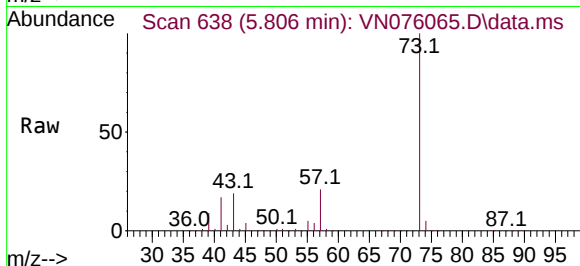
Tgt Ion: 53 Resp: 232823

Ion Ratio Lower Upper

53 100

52 19.3 65.4 98.0#

51 79.6 28.9 43.3#



#16

Acetone

Concen: 5.380 ug/l

RT: 4.453 min Scan# 408

Delta R.T. 0.012 min

Lab File: VN076065.D

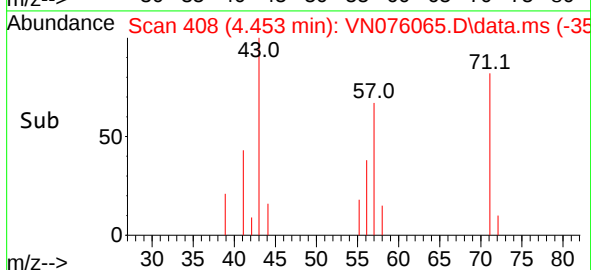
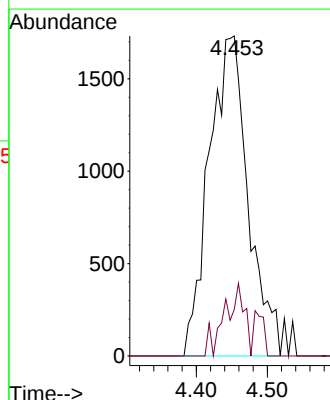
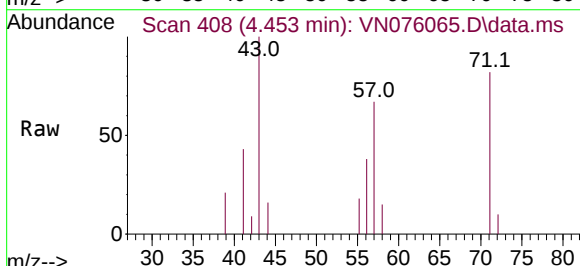
Acq: 03 Jan 2023 15:50

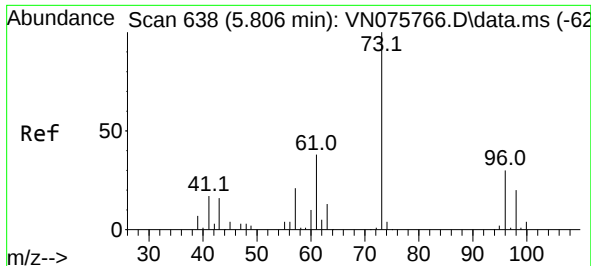
Tgt Ion: 43 Resp: 6631

Ion Ratio Lower Upper

43 100

58 14.5 28.6 43.0#

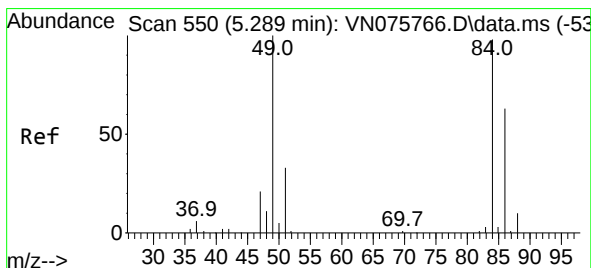
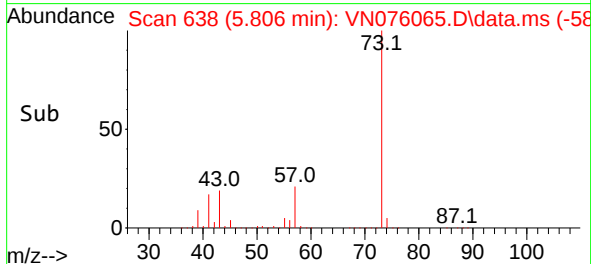
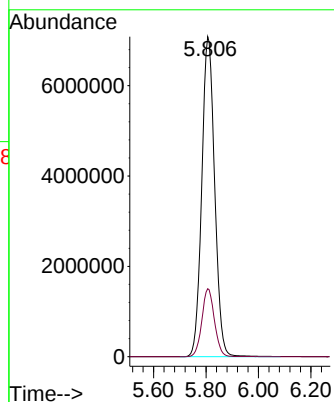
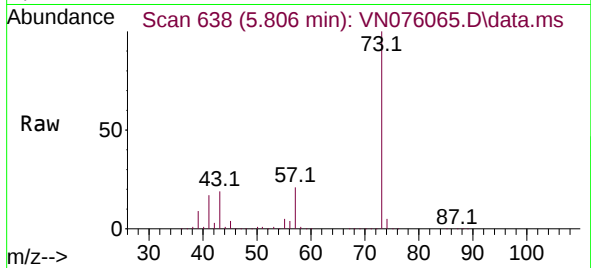




#19
Methyl tert-butyl Ether
Concen: 2517.292 ug/l
RT: 5.806 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

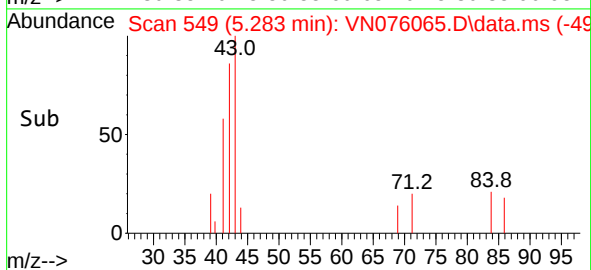
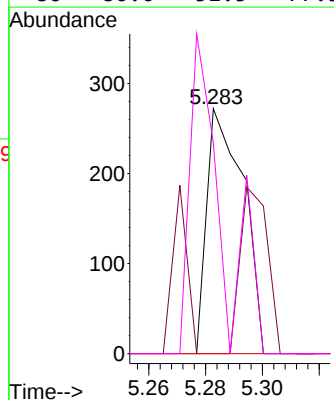
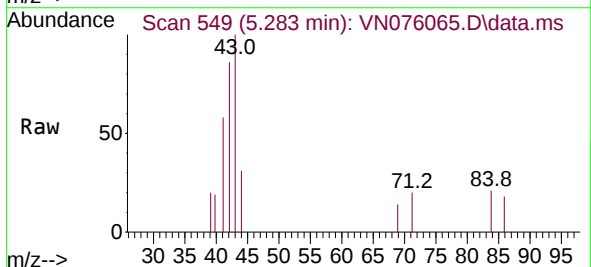
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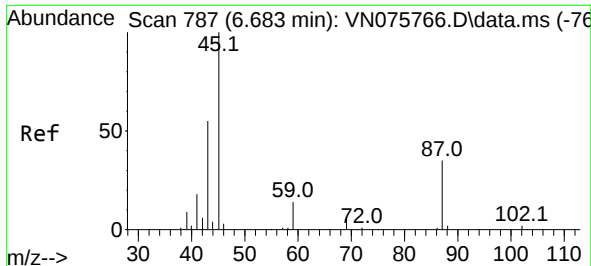
Tgt Ion: 73 Resp:24145737
Ion Ratio Lower Upper
73 100
57 21.2 17.1 25.7



#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 549
Delta R.T. -0.006 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

Tgt Ion: 84 Resp: 242
Ion Ratio Lower Upper
84 100
49 0.0 81.8 122.6#
51 0.0 26.7 40.1#
86 86.0 51.5 77.3#

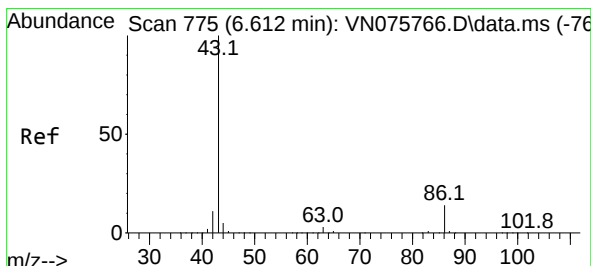
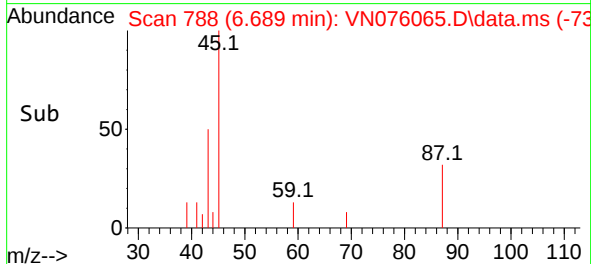
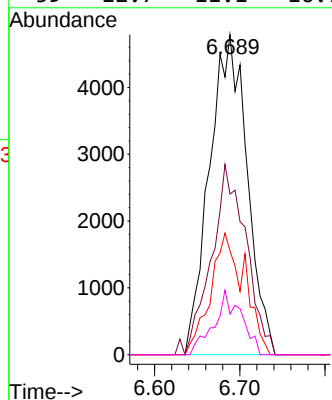
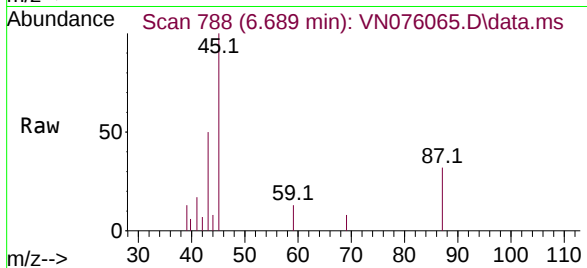




#22
Diisopropyl ether
Concen: 1.781 ug/l
RT: 6.689 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

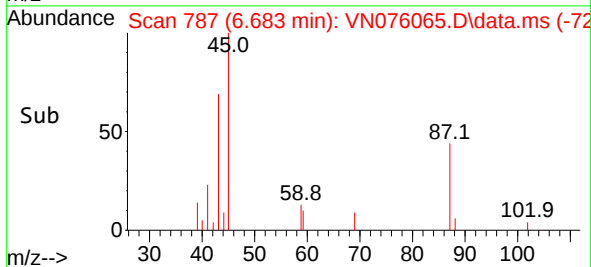
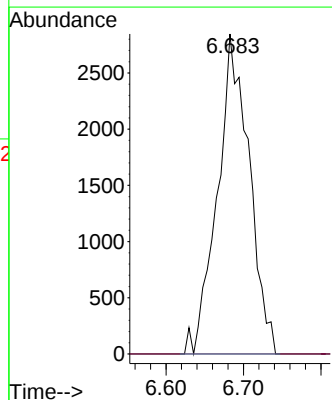
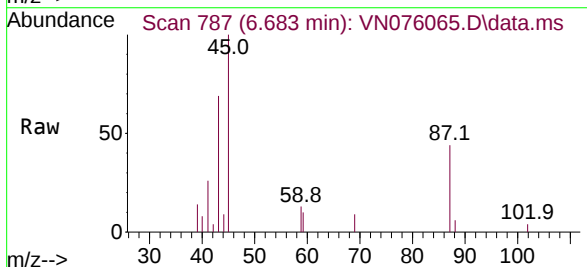
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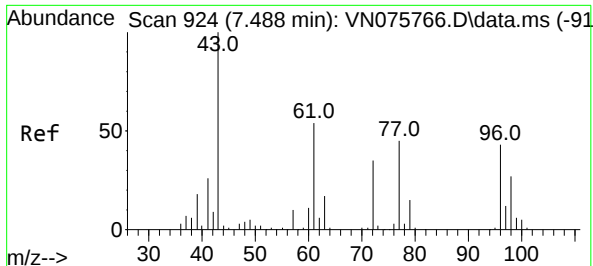
Tgt Ion:	45	Resp:	14735
Ion	Ratio	Lower	Upper
45	100		
43	50.2	44.2	66.4
87	32.4	28.3	42.5
59	12.7	11.1	16.7



#23
Vinyl Acetate
Concen: 1.455 ug/l
RT: 6.683 min Scan# 787
Delta R.T. 0.071 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

Tgt Ion:	43	Resp:	8100
Ion	Ratio	Lower	Upper
43	100		
86	0.0	11.4	17.2





#25

2-Butanone

Concen: 0.668 ug/l

RT: 7.506 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

Instrument :

MSVOA_N

ClientSampleId :

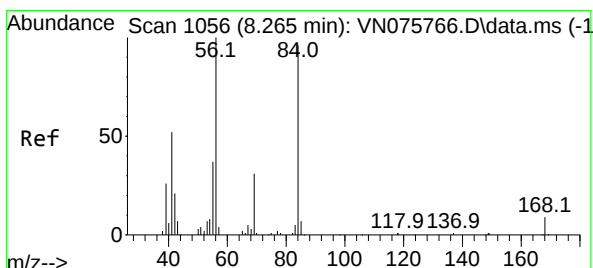
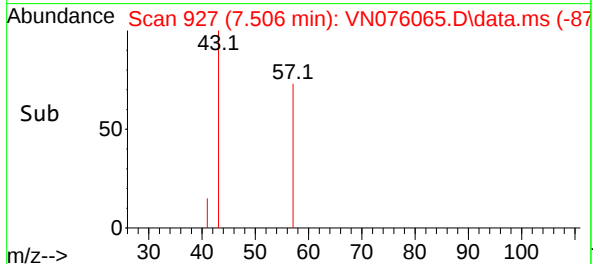
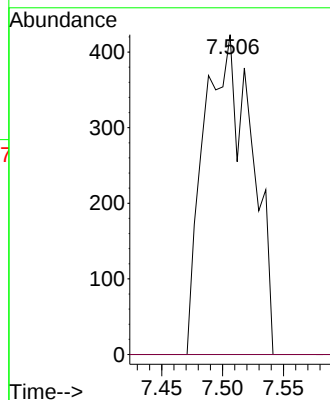
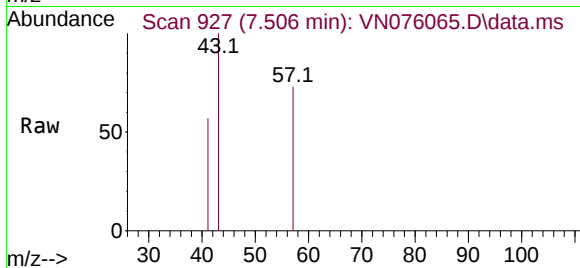
MW-13

Tgt Ion: 43 Resp: 1152

Ion Ratio Lower Upper

43 100

72 0.0 28.0 42.0#



#31

Cyclohexane

Concen: 1.365 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.029 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

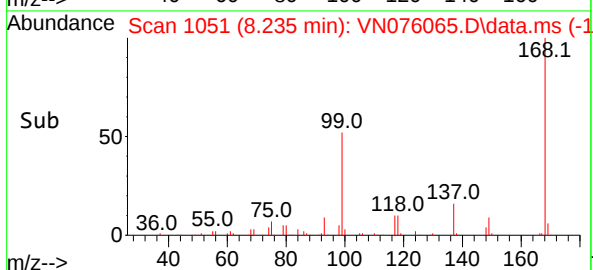
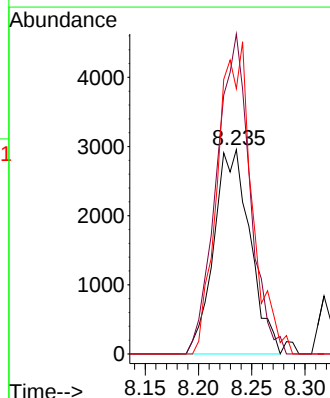
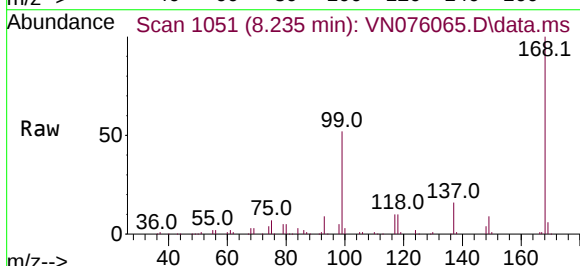
Tgt Ion: 56 Resp: 6990

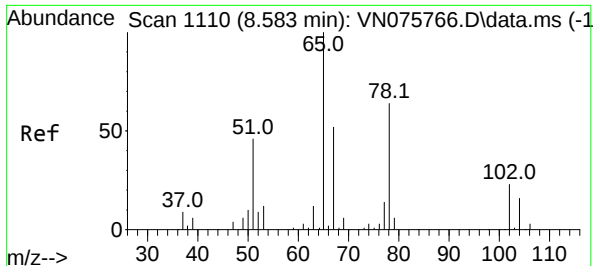
Ion Ratio Lower Upper

56 100

69 156.6 24.7 37.1#

84 129.8 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 46.473 ug/l

RT: 8.588 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

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ClientSampleId :

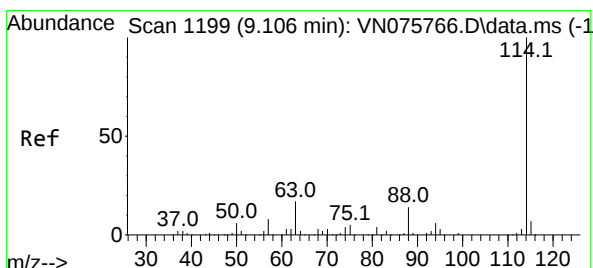
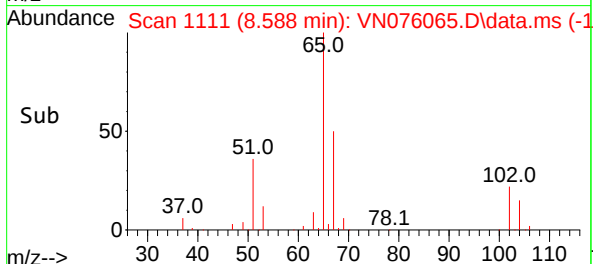
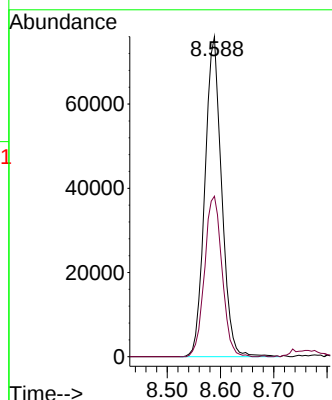
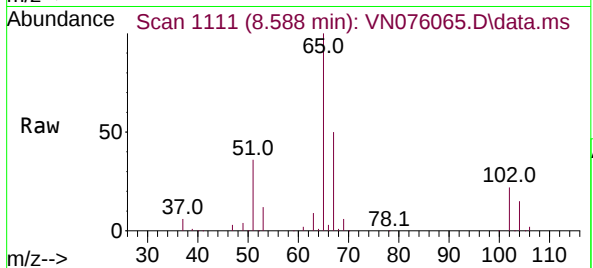
MW-13

Tgt Ion: 65 Resp: 166160

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

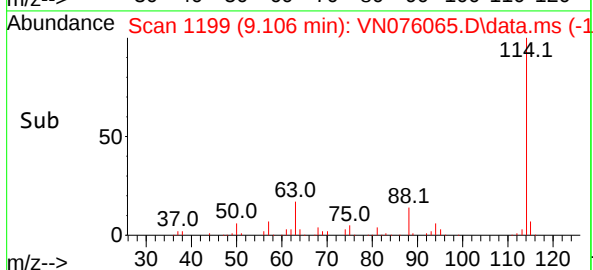
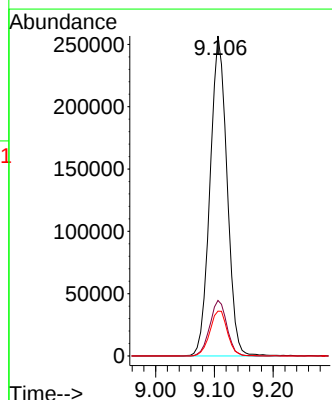
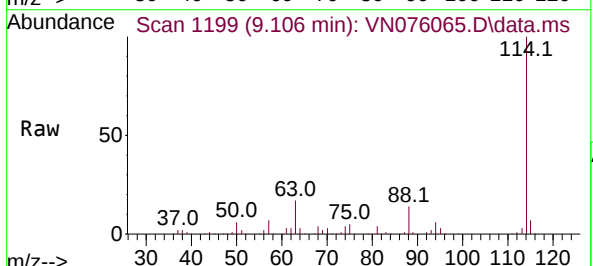
Tgt Ion: 114 Resp: 514948

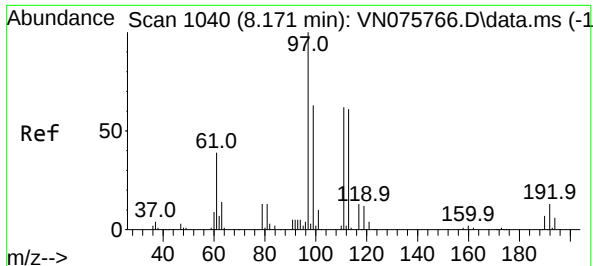
Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.4

88 14.0 0.0 28.8





#35

Dibromofluoromethane

Concen: 48.425 ug/l

RT: 8.177 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

Instrument :

MSVOA_N

ClientSampleId :

MW-13

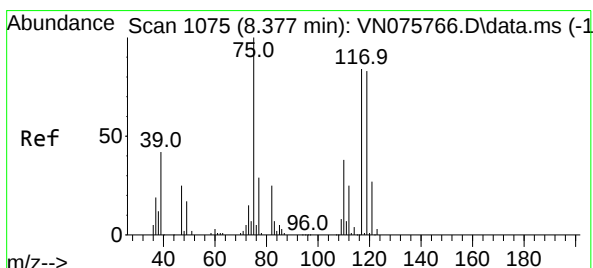
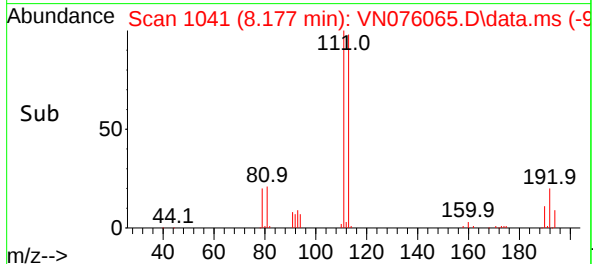
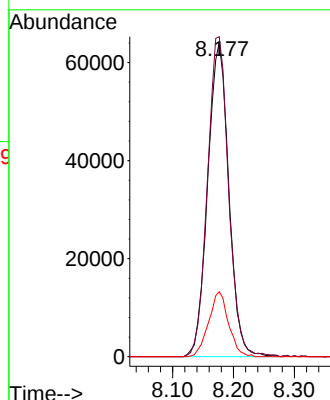
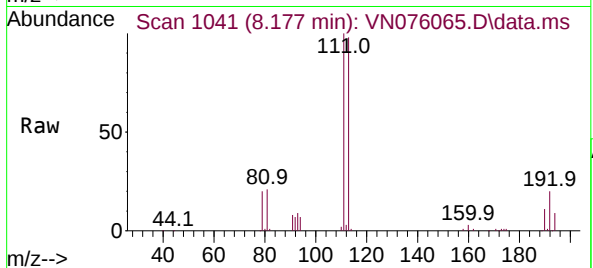
Tgt Ion:113 Resp: 154427

Ion Ratio Lower Upper

113 100

111 102.1 83.4 125.2

192 19.5 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.266 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

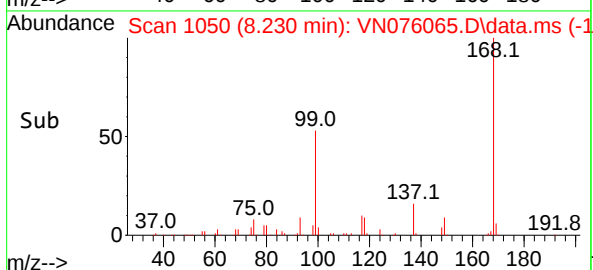
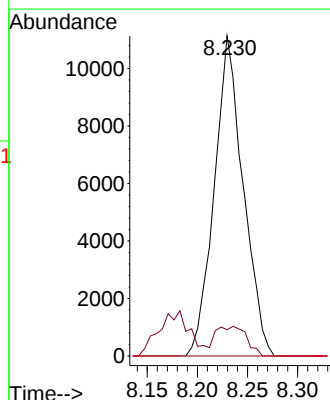
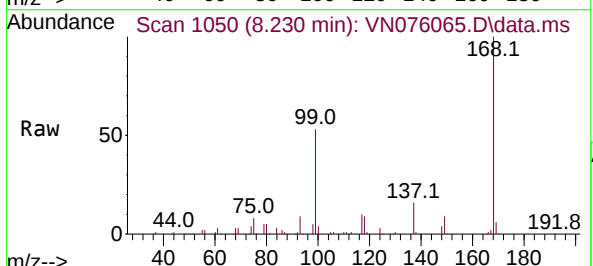
Tgt Ion: 75 Resp: 22307

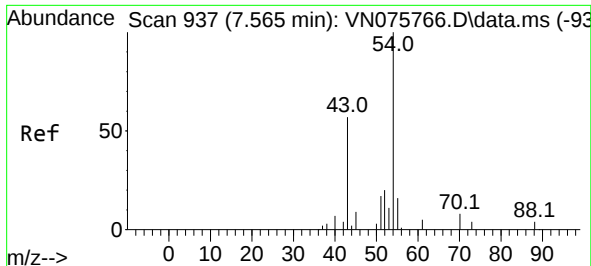
Ion Ratio Lower Upper

75 100

110 9.8 18.8 56.4#

77 0.0 24.1 36.1#





#37

Ethyl Acetate

Concen: 0.339 ug/l

RT: 7.506 min Scan# 91

Delta R.T. -0.059 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

Instrument :

MSVOA_N

ClientSampleId :

MW-13

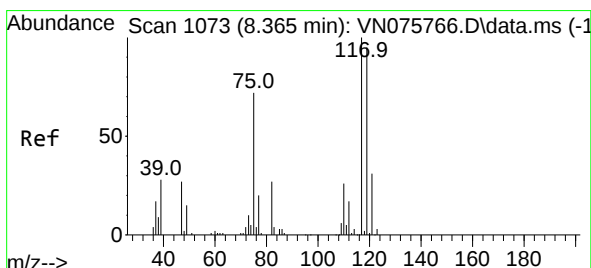
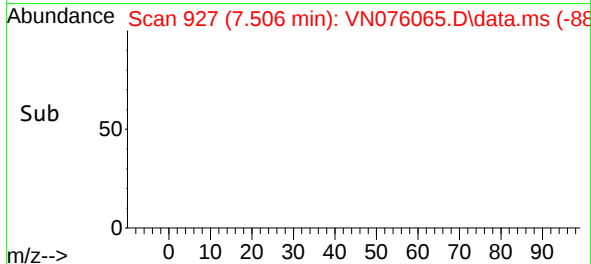
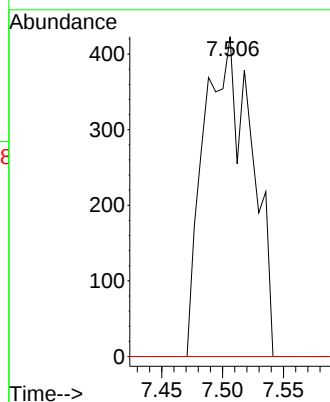
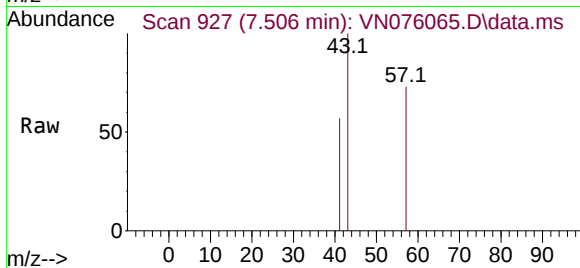
Tgt Ion: 43 Resp: 1152

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

70 0.0 9.4 14.0#



#38

Carbon Tetrachloride

Concen: 6.842 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.135 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

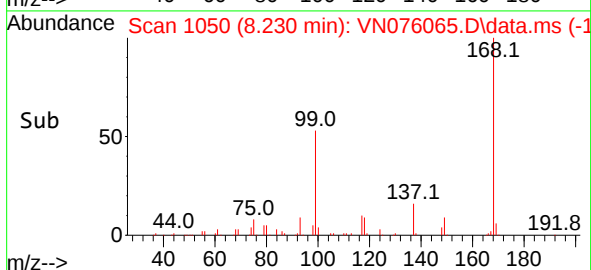
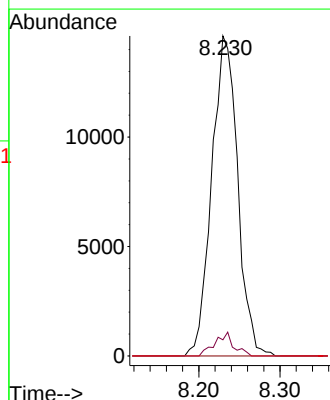
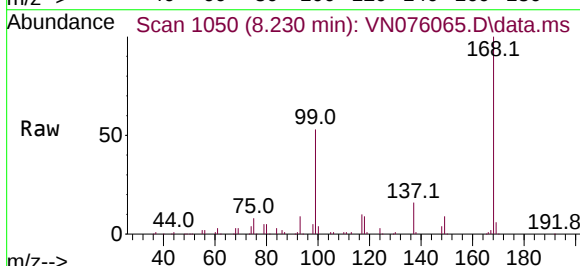
Tgt Ion: 117 Resp: 32438

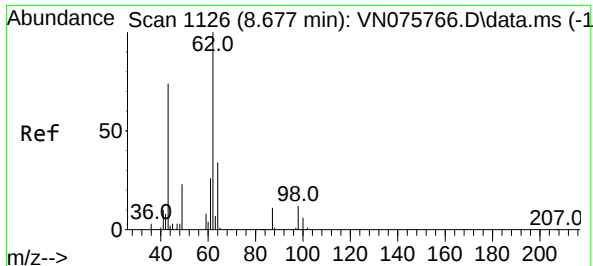
Ion Ratio Lower Upper

117 100

119 5.0 76.1 114.1#

121 0.0 24.5 36.7#





#42

1,2-Dichloroethane

Concen: 0.283 ug/l

RT: 8.677 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

Instrument :

MSVOA_N

ClientSampleId :

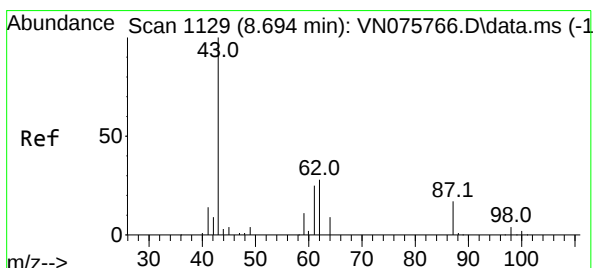
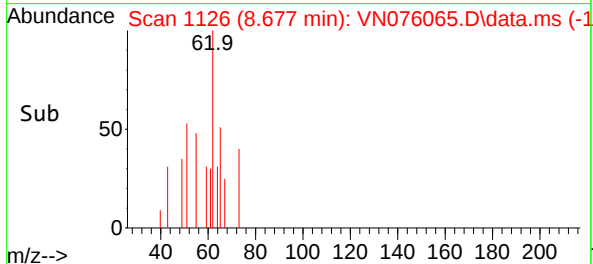
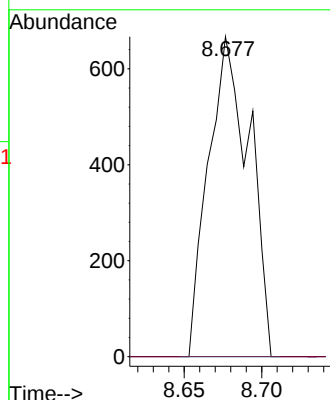
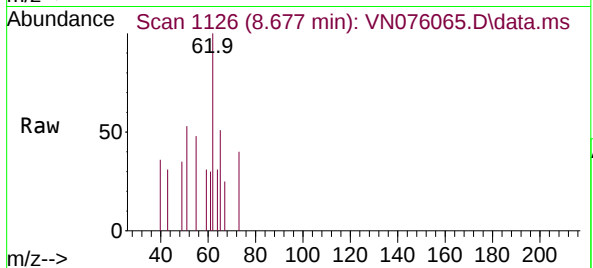
MW-13

Tgt Ion: 62 Resp: 1228

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8



#43

Isopropyl Acetate

Concen: 19.538 ug/l

RT: 8.782 min Scan# 1144

Delta R.T. 0.088 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

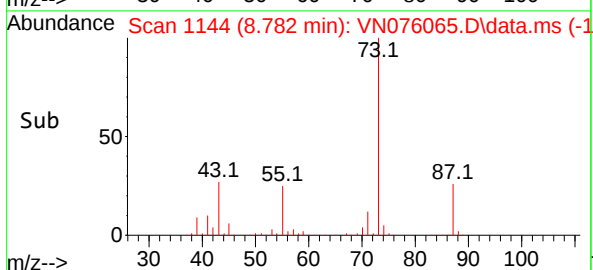
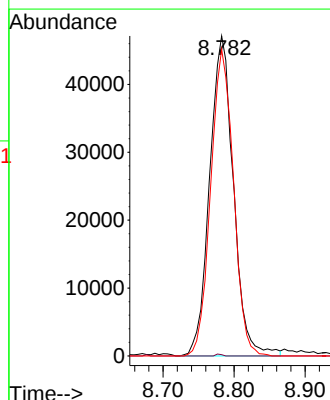
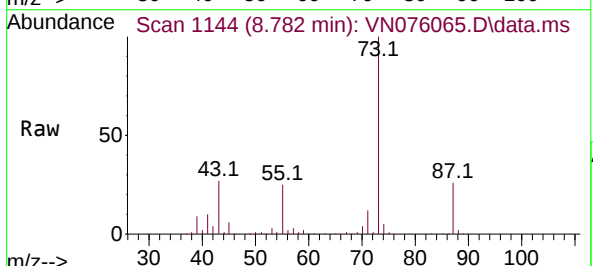
Tgt Ion: 43 Resp: 109669

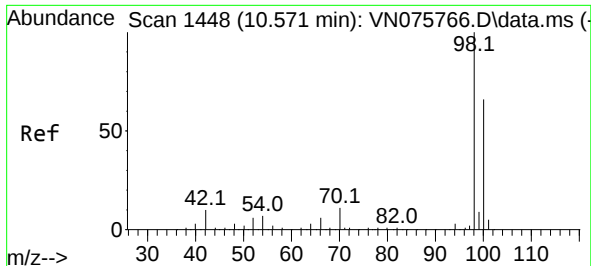
Ion Ratio Lower Upper

43 100

61 0.2 24.2 36.4#

87 91.4 13.3 19.9#

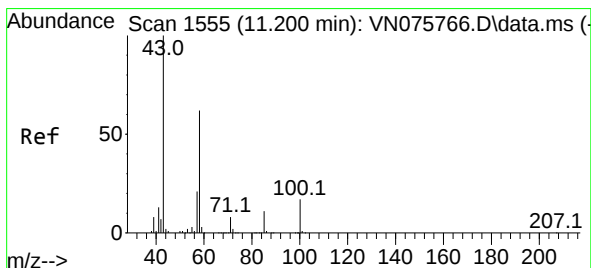
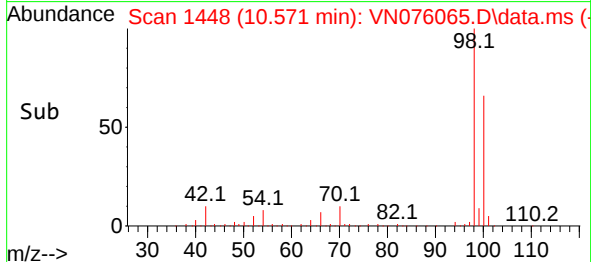
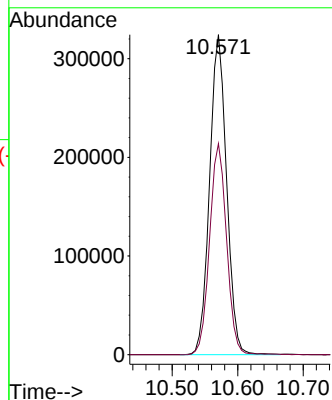
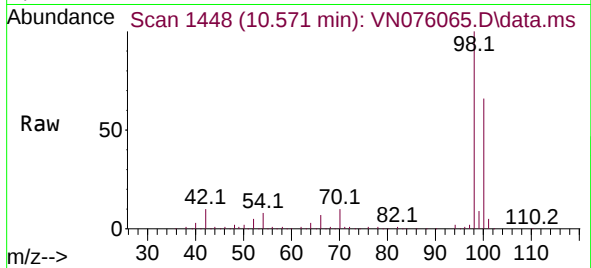




#50
Toluene-d8
Concen: 49.010 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

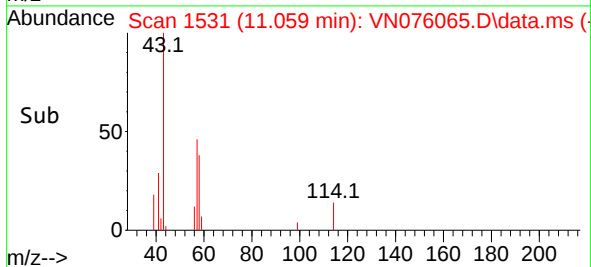
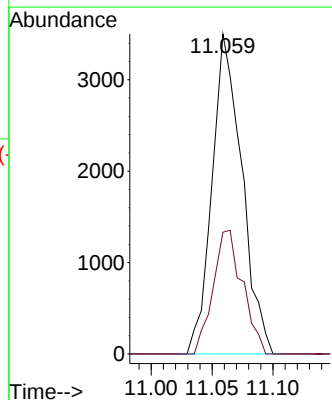
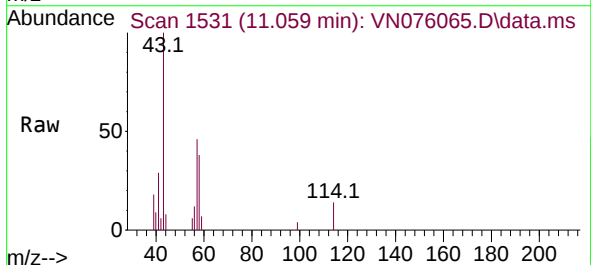
Instrument :
MSVOA_N
ClientSampleId :
MW-13

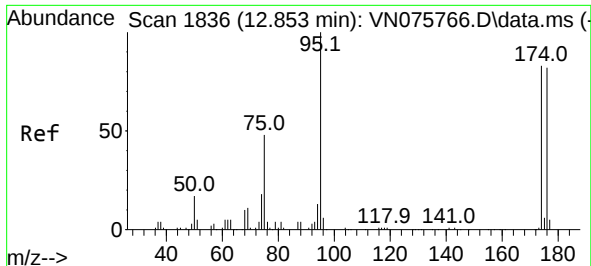
Tgt Ion: 98 Resp: 584358
Ion Ratio Lower Upper
98 100
100 65.8 52.1 78.1



#59
2-Hexanone
Concen: 2.409 ug/l
RT: 11.059 min Scan# 1531
Delta R.T. -0.141 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

Tgt Ion: 43 Resp: 5963
Ion Ratio Lower Upper
43 100
58 38.1 30.6 92.0

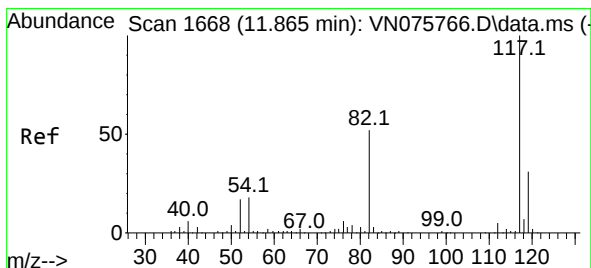
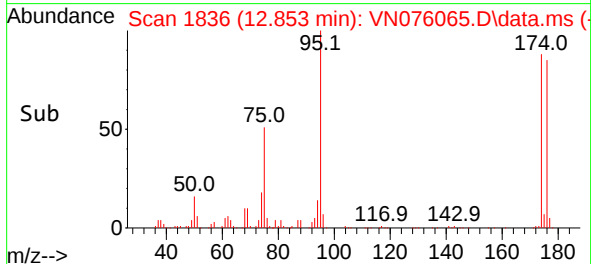
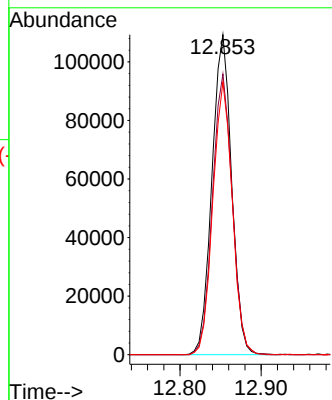
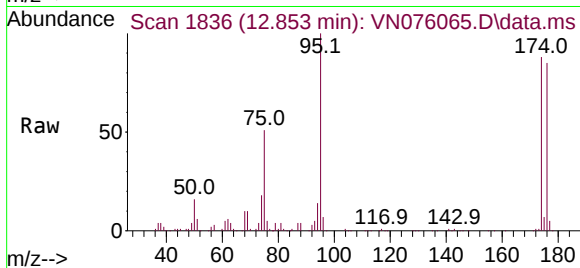




#62
4-Bromofluorobenzene
Concen: 46.549 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

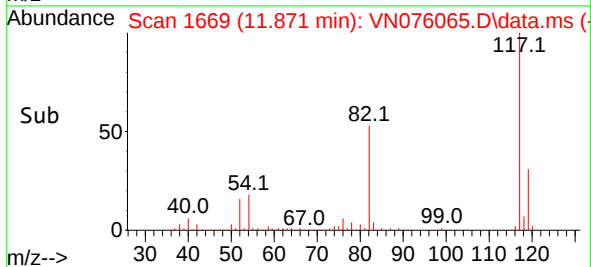
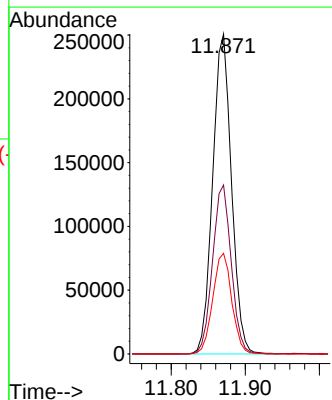
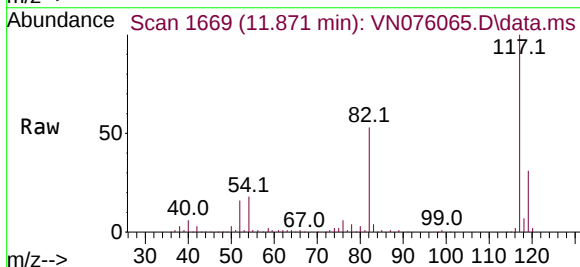
Instrument :
MSVOA_N
ClientSampleId :
MW-13

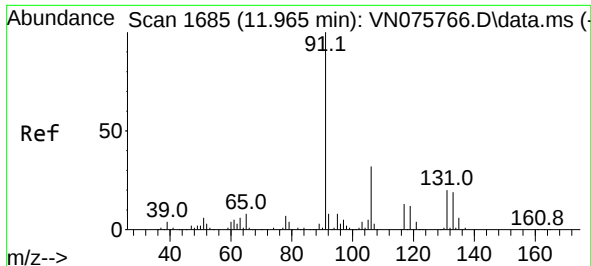
Tgt Ion: 95 Resp: 183827
Ion Ratio Lower Upper
95 100
174 88.2 0.0 171.6
176 84.5 0.0 169.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

Tgt Ion: 117 Resp: 441189
Ion Ratio Lower Upper
117 100
82 52.8 41.3 61.9
119 31.4 24.6 37.0

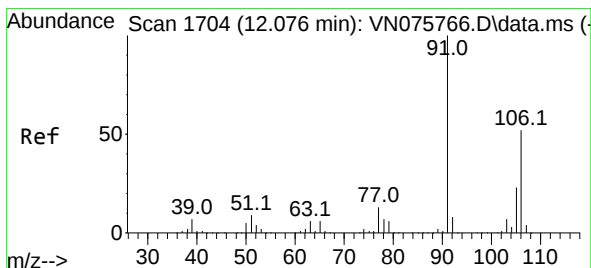
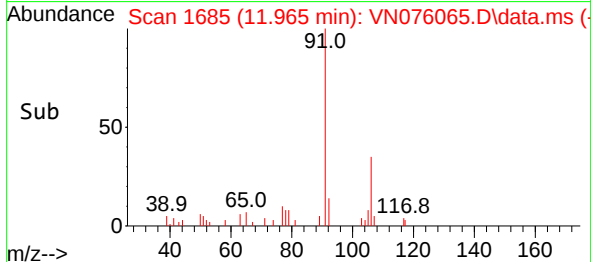
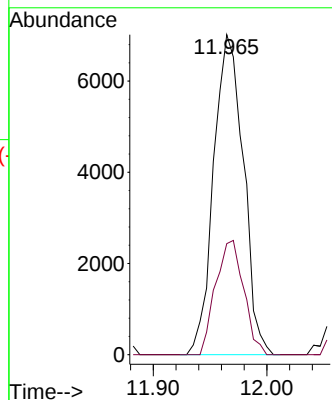
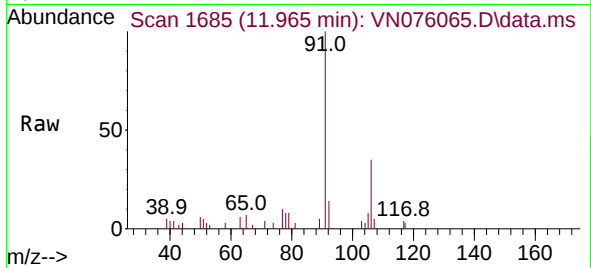




#67
Ethyl Benzene
Concen: 0.834 ug/l
RT: 11.965 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

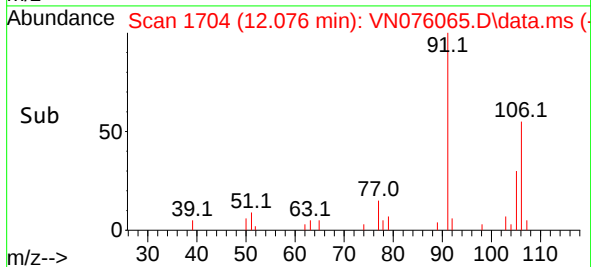
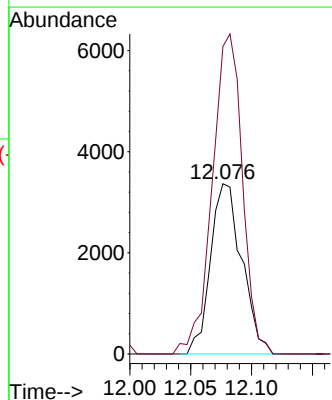
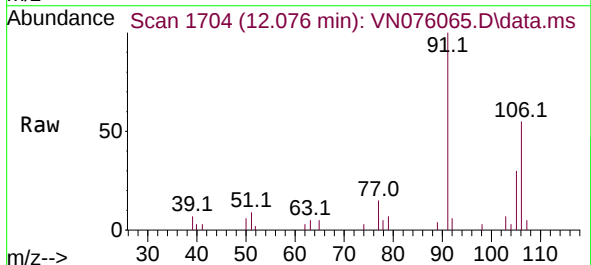
Instrument :
MSVOA_N
ClientSampleId :
MW-13

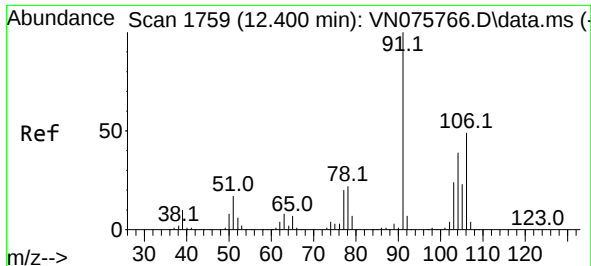
Tgt Ion: 91 Resp: 12750
Ion Ratio Lower Upper
91 100
106 34.7 25.7 38.5



#68
m/p-Xylenes
Concen: 0.996 ug/l
RT: 12.076 min Scan# 1704
Delta R.T. -0.000 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

Tgt Ion: 106 Resp: 6027
Ion Ratio Lower Upper
106 100
91 181.0 156.6 235.0

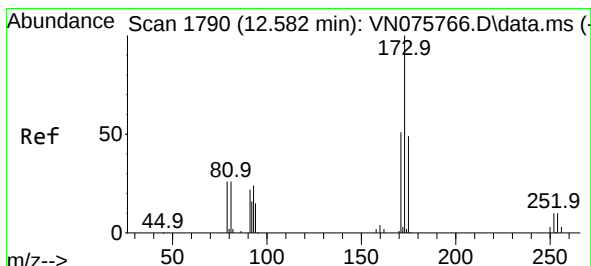
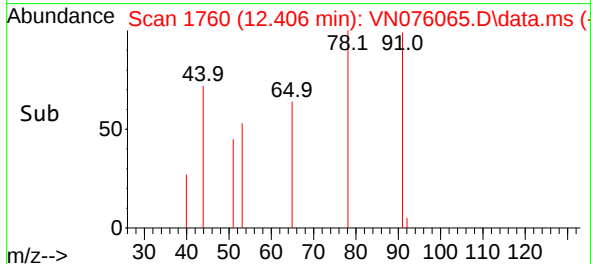
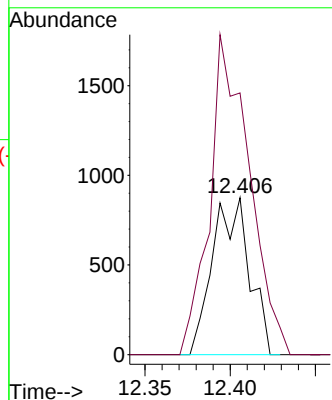
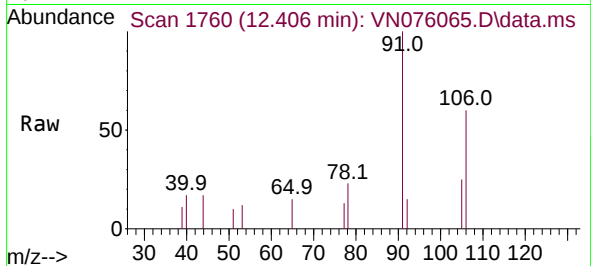




#69
o-Xylene
Concen: 0.220 ug/l
RT: 12.406 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

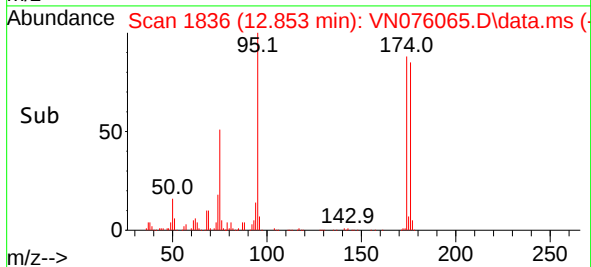
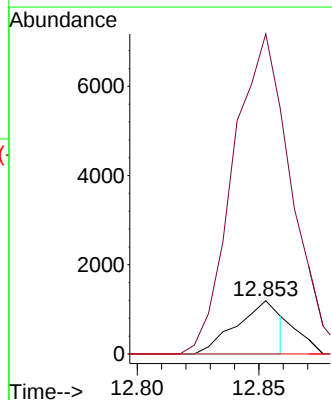
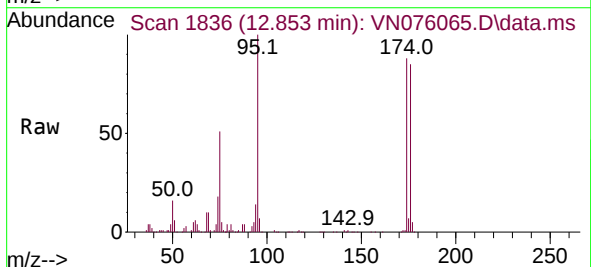
Instrument :
MSVOA_N
ClientSampleId :
MW-13

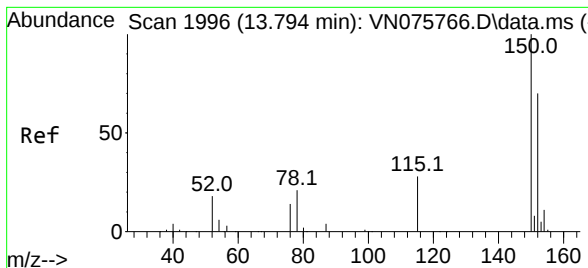
Tgt Ion:106 Resp: 1317
Ion Ratio Lower Upper
106 100
91 218.5 103.8 311.6



#71
Bromoform
Concen: 0.611 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN076065.D
Acq: 03 Jan 2023 15:50

Tgt Ion:173 Resp: 1492
Ion Ratio Lower Upper
173 100
175 652.5 24.3 72.8#
254 0.0 0.0 0.0

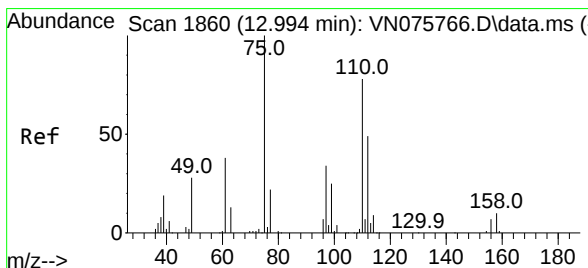
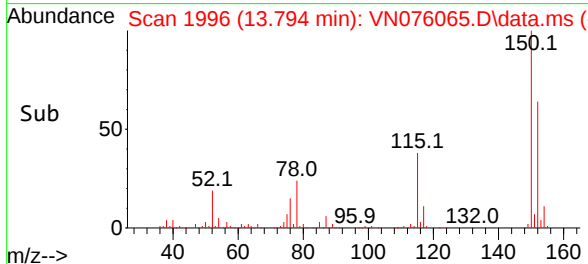
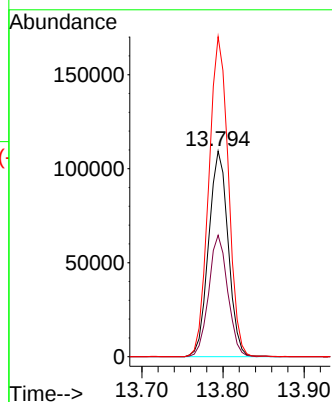
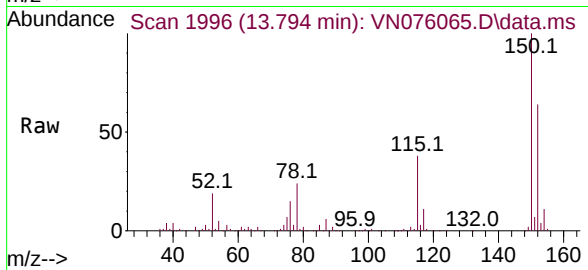




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 1996
 Delta R.T. -0.000 min
 Lab File: VN076065.D
 Acq: 03 Jan 2023 15:50

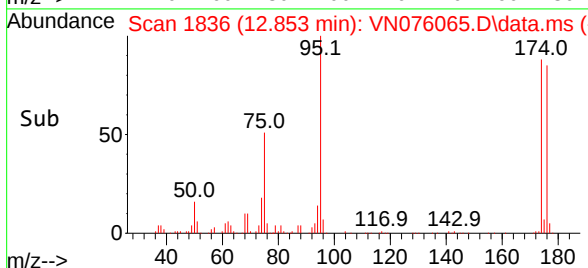
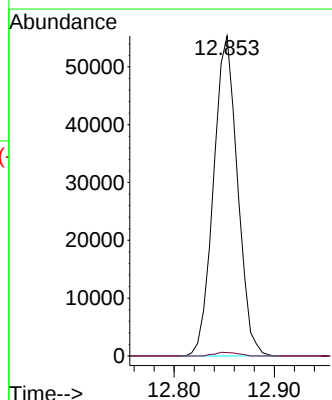
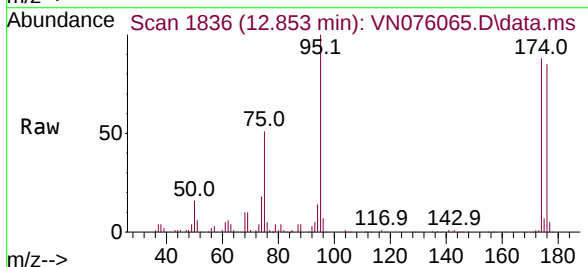
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13

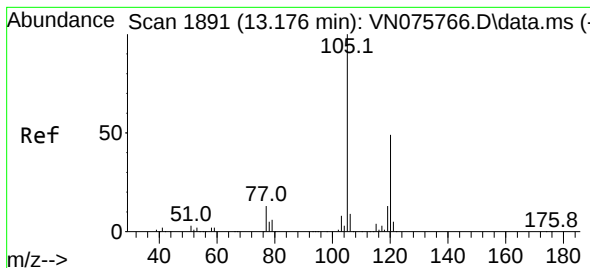
Tgt Ion:152 Resp: 182463
 Ion Ratio Lower Upper
 152 100
 115 57.5 29.1 87.4
 150 156.1 0.0 347.0



#76
 1,2,3-Trichloropropane
 Concen: 25.008 ug/l
 RT: 12.853 min Scan# 1836
 Delta R.T. -0.141 min
 Lab File: VN076065.D
 Acq: 03 Jan 2023 15:50

Tgt Ion: 75 Resp: 91981
 Ion Ratio Lower Upper
 75 100
 77 1.1 82.6 247.8#





#80

1,3,5-Trimethylbenzene

Concen: 0.231 ug/l

RT: 13.135 min Scan# 1884

Delta R.T. -0.041 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

Instrument :

MSVOA_N

ClientSampleId :

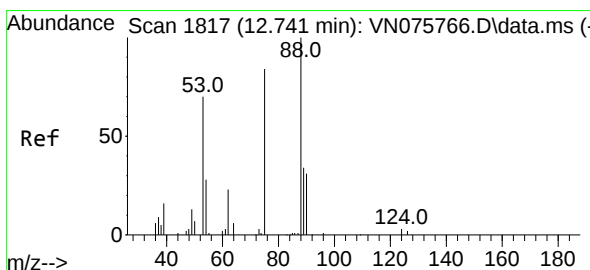
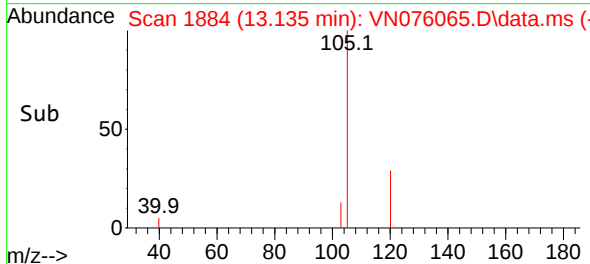
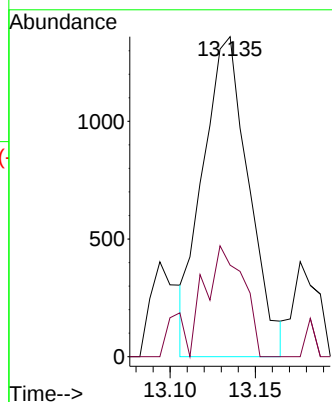
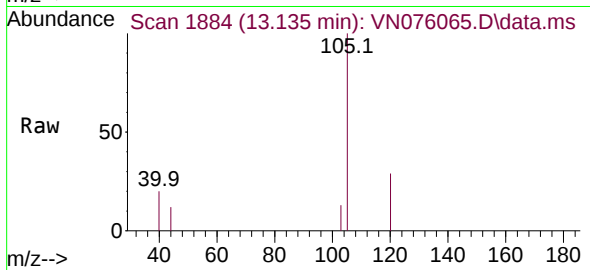
MW-13

Tgt Ion:105 Resp: 2550

Ion Ratio Lower Upper

105 100

120 33.6 24.7 74.1



#81

trans-1,4-Dichloro-2-butene

Concen: 90.018 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.112 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

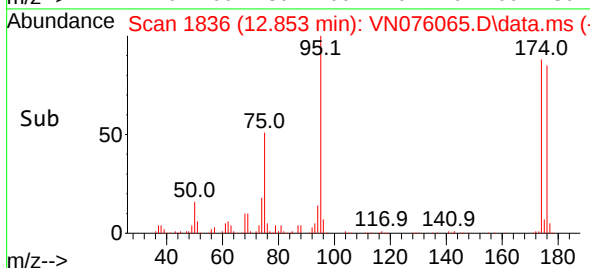
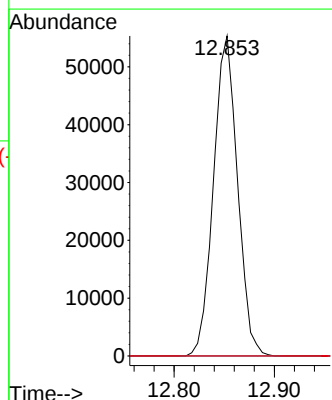
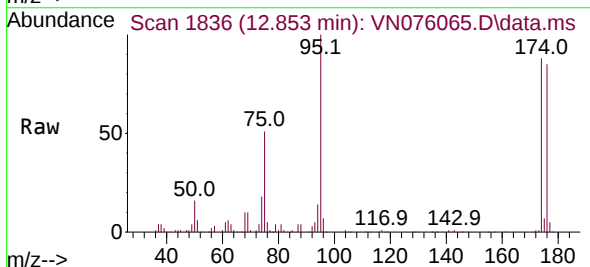
Tgt Ion: 75 Resp: 91981

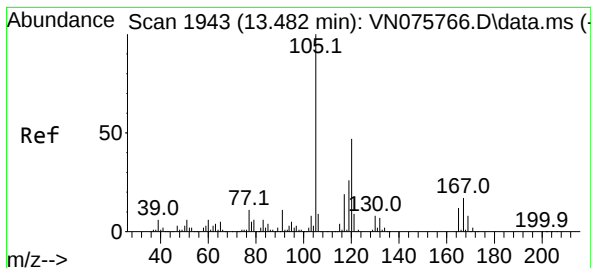
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 39.5 59.3#





#84

1,2,4-Trimethylbenzene

Concen: 0.609 ug/l

RT: 13.488 min Scan# 1943

Delta R.T. 0.006 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

Instrument :

MSVOA_N

ClientSampleId :

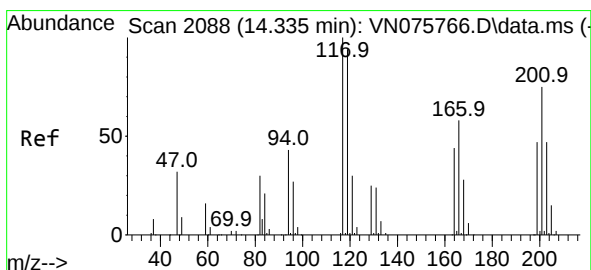
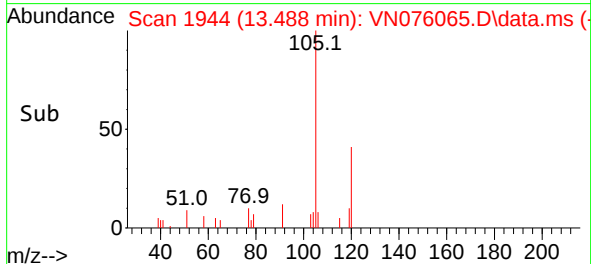
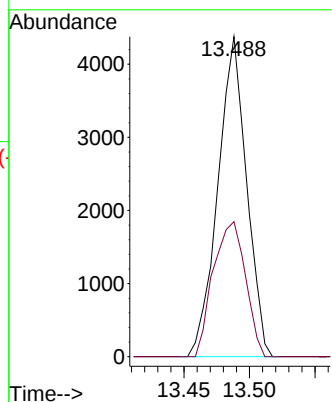
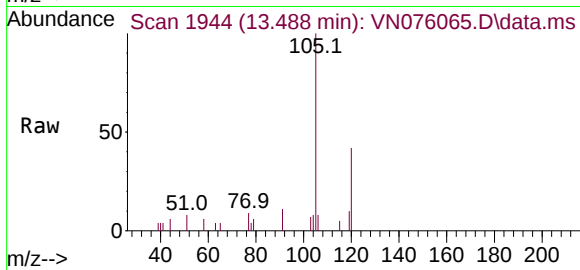
MW-13

Tgt Ion:105 Resp: 6667

Ion Ratio Lower Upper

105 100

120 47.3 23.3 69.8



#90

Hexachloroethane

Concen: 0.229 ug/l

RT: 14.406 min Scan# 2100

Delta R.T. 0.071 min

Lab File: VN076065.D

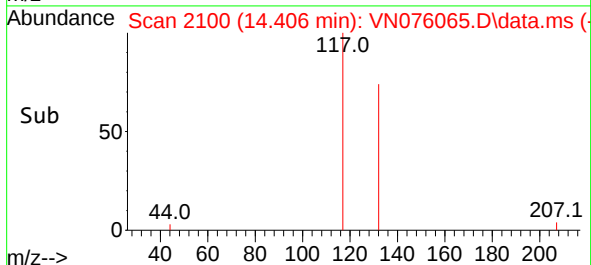
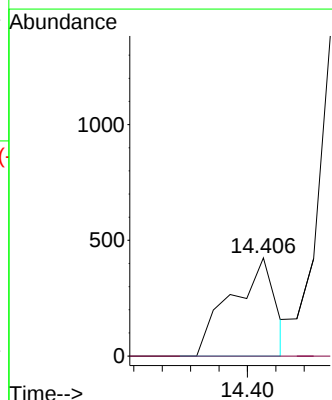
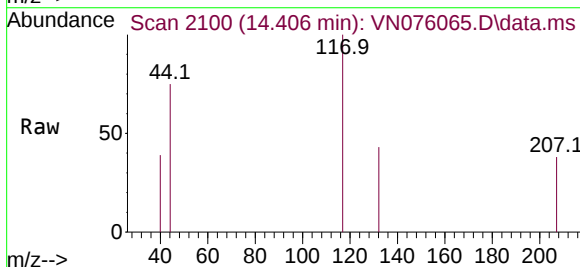
Acq: 03 Jan 2023 15:50

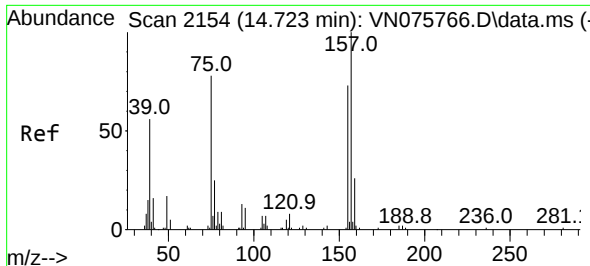
Tgt Ion:117 Resp: 457

Ion Ratio Lower Upper

117 100

201 0.0 38.0 114.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.324 ug/l

RT: 14.441 min Scan# 2154

Delta R.T. -0.282 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

Instrument :

MSVOA_N

ClientSampleId :

MW-13

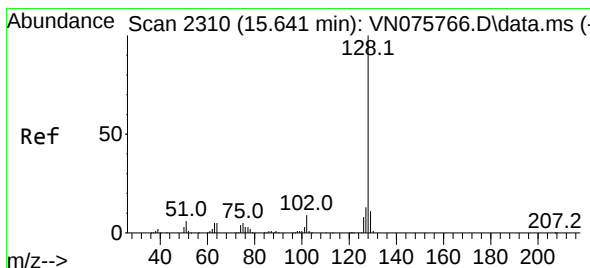
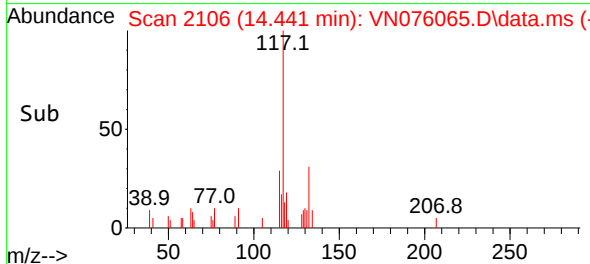
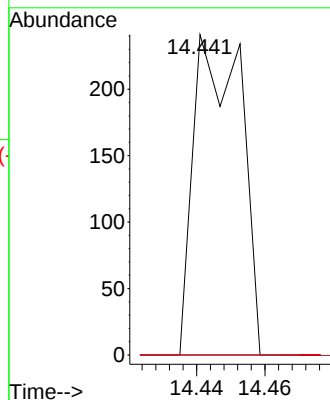
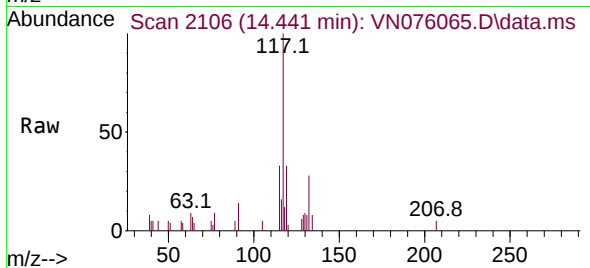
Tgt Ion: 75 Resp: 234

Ion Ratio Lower Upper

75 100

155 0.0 49.3 147.8#

157 0.0 63.7 191.3#



#95

Naphthalene

Concen: 2.504 ug/l

RT: 15.653 min Scan# 2312

Delta R.T. 0.012 min

Lab File: VN076065.D

Acq: 03 Jan 2023 15:50

Tgt Ion: 128 Resp: 3394

Ion Ratio Lower Upper

128 100

127 10.0 10.4 15.6#

129 6.0 8.7 13.1#

