

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010323\
 Data File : VN076070.D
 Acq On : 03 Jan 2023 17:51
 Operator : JC\MD
 Sample : N6232-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Quant Time: Jan 04 04:20:59 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)

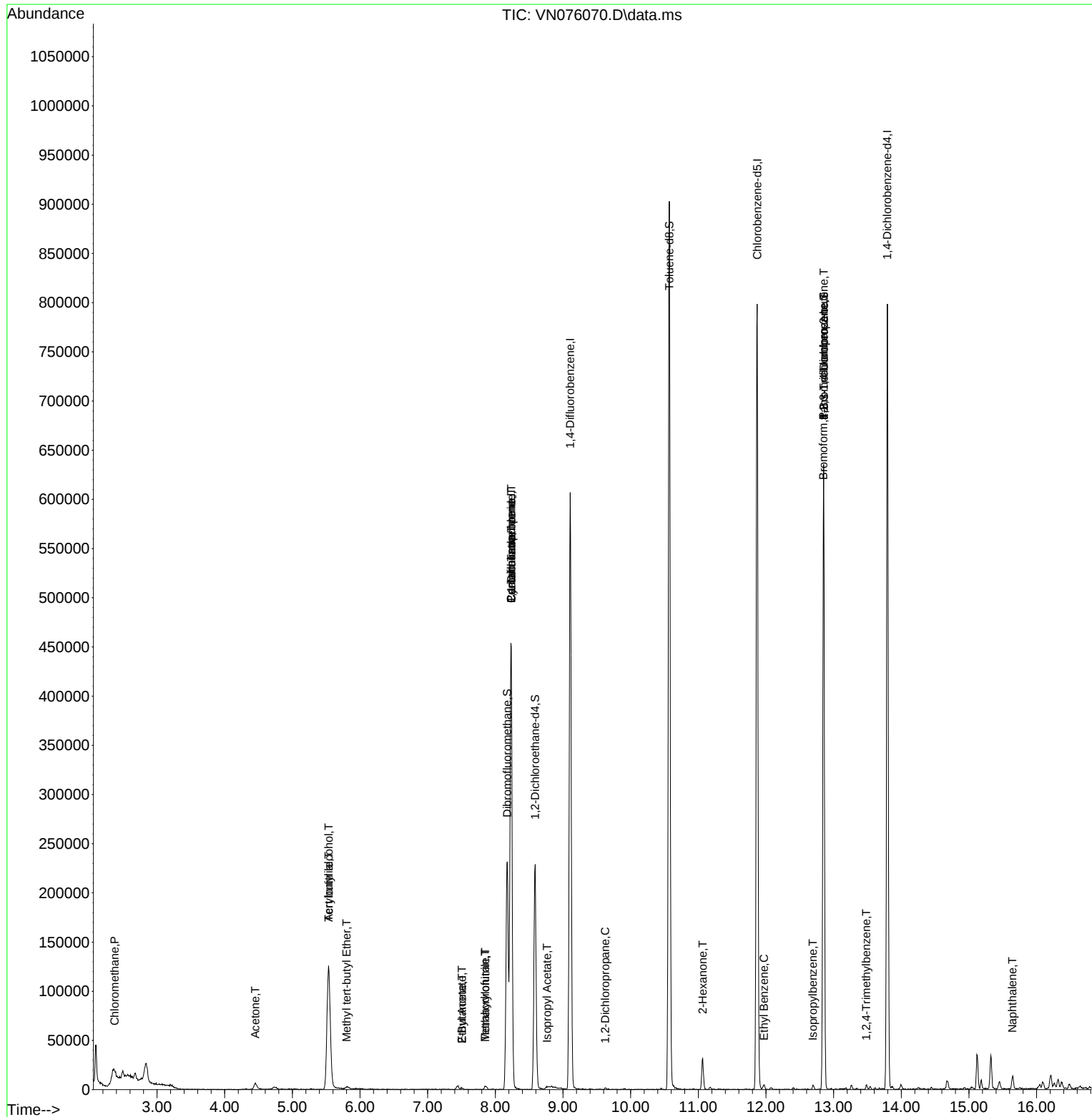
Internal Standards						
1) Pentafluorobenzene	8.235	168	364032	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	564126	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	497641	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	222356	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	186148	47.003	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.000%		
35) Dibromofluoromethane	8.177	113	170819	48.896	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.800%		
50) Toluene-d8	10.571	98	641214	49.090	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.180%		
62) 4-Bromofluorobenzene	12.853	95	208826	48.269	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	96.540%		
Target Compounds						Qvalue
3) Chloromethane	2.371	50	1148	0.357	ug/l #	40
11) Tert butyl alcohol	5.536	59	237381	423.606	ug/l	99
15) Acrylonitrile	5.536	53	2592	1.695	ug/l #	29
16) Acetone	4.453	43	11575	8.479	ug/l	92
19) Methyl tert-butyl Ether	5.800	73	4027	0.379	ug/l #	55
20) Methylene Chloride	5.306	84	61	Below Cal	#	59
25) 2-Butanone	7.506	43	2443	1.278	ug/l #	69
29) Tetrahydrofuran	7.847	42	1486	1.240	ug/l #	60
31) Cyclohexane	8.235	56	6422	1.132	ug/l #	11
36) 1,1-Dichloropropene	8.235	75	25322	5.456	ug/l #	49
37) Ethyl Acetate	7.506	43	2443	0.655	ug/l #	65
38) Carbon Tetrachloride	8.235	117	35154	6.768	ug/l #	17
41) Methacrylonitrile	7.853	41	1398	0.721	ug/l #	28
43) Isopropyl Acetate	8.765	43	1859	0.302	ug/l #	50
45) 1,2-Dichloropropane	9.624	63	980	0.281	ug/l #	43
59) 2-Hexanone	11.065	43	18510	6.825	ug/l	75
67) Ethyl Benzene	11.970	91	4278	0.248	ug/l	94
71) Bromoform	12.847	173	1445	0.525	ug/l #	1
73) Isopropylbenzene	12.694	105	3625	0.226	ug/l	95
76) 1,2,3-Trichloropropane	12.853	75	105723	23.588	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	105723	84.903	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.482	105	3221	0.241	ug/l	97
95) Naphthalene	15.641	128	12956	3.202	ug/l	98

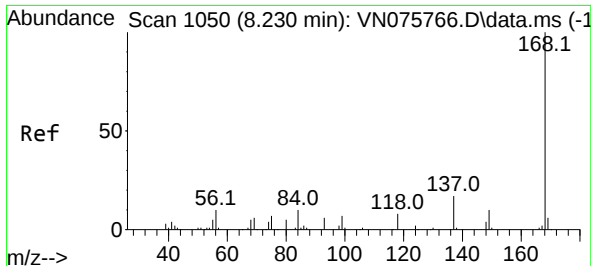
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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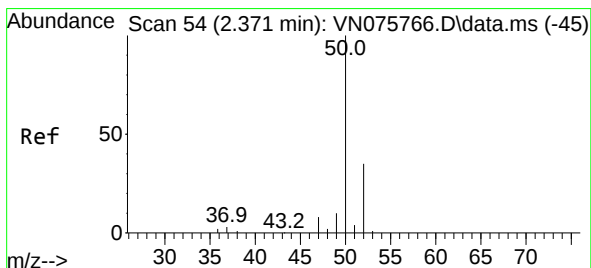
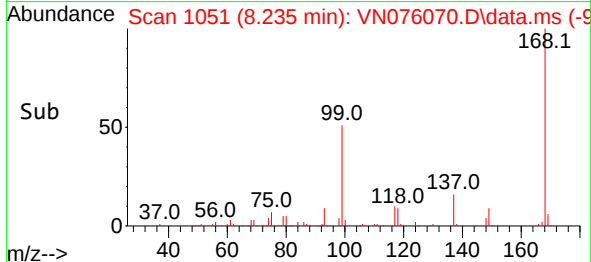
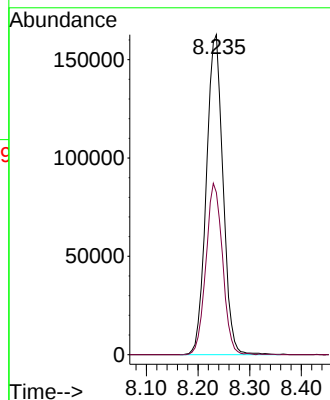
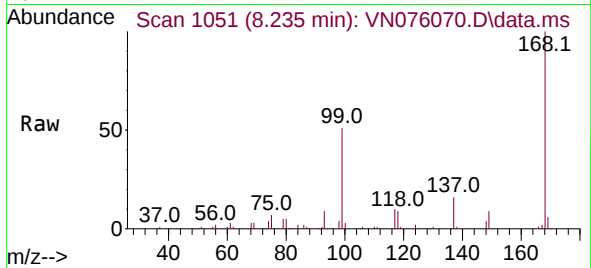




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

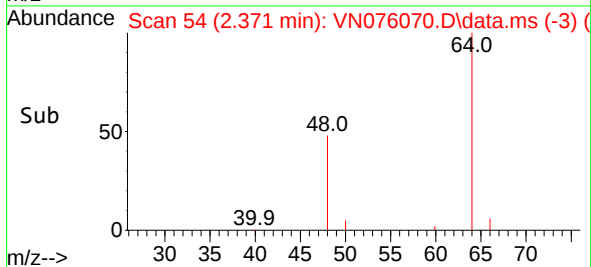
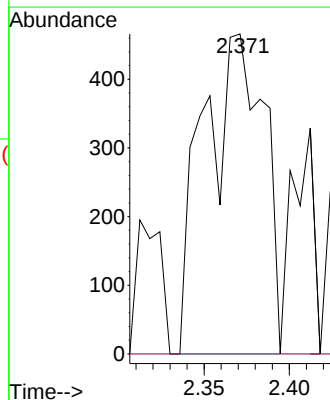
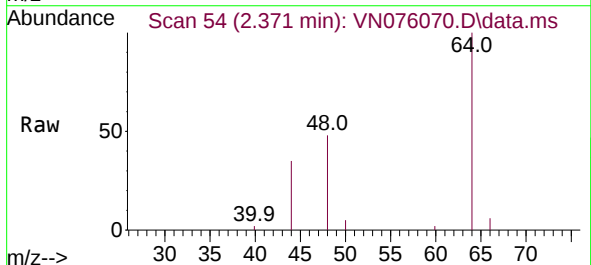
Instrument :
MSVOA_N
ClientSampleId :
MW-2

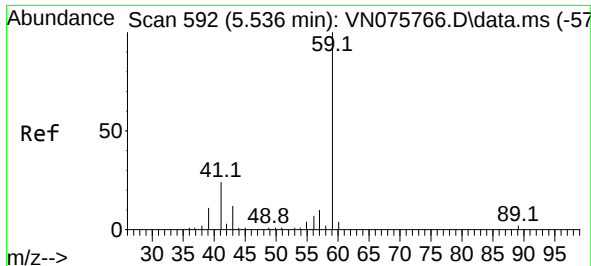
Tgt Ion:168 Resp: 364032
Ion Ratio Lower Upper
168 100
99 50.7 44.2 66.4



#3
Chloromethane
Concen: 0.357 ug/l
RT: 2.371 min Scan# 54
Delta R.T. -0.000 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

Tgt Ion: 50 Resp: 1148
Ion Ratio Lower Upper
50 100
52 0.0 27.7 41.5#

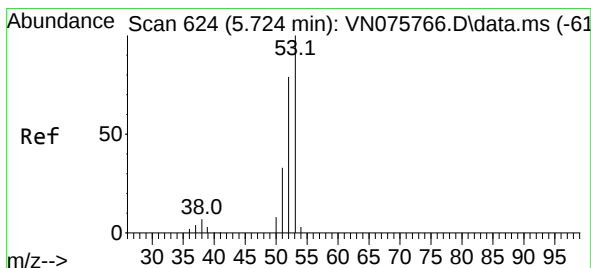
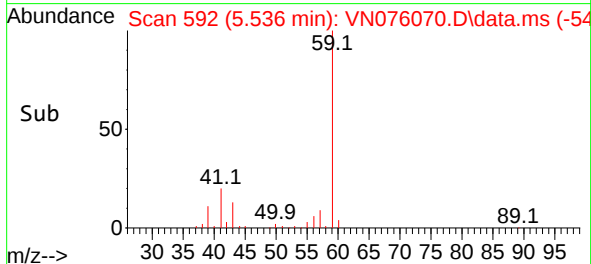
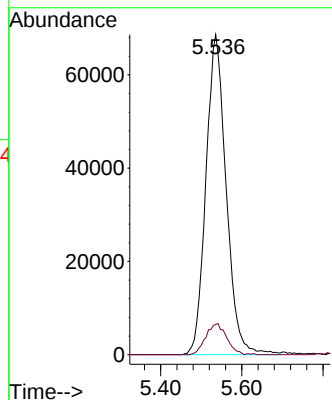
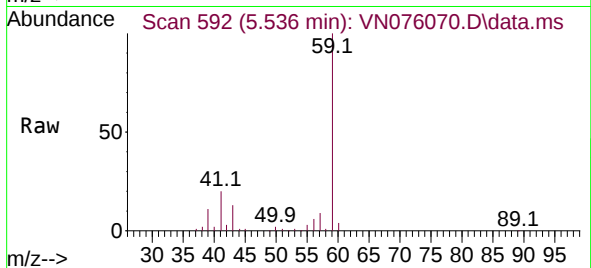




#11
Tert butyl alcohol
Concen: 423.606 ug/l
RT: 5.536 min Scan# 592
Delta R.T. -0.000 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

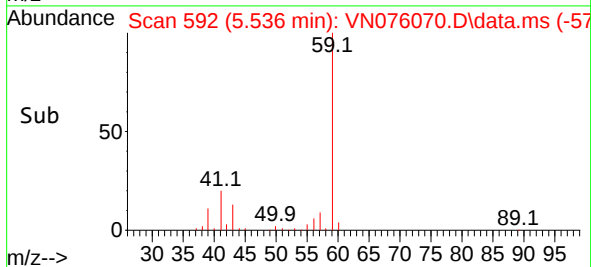
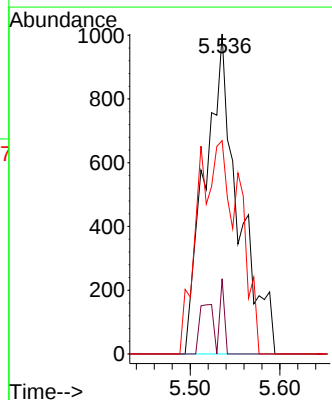
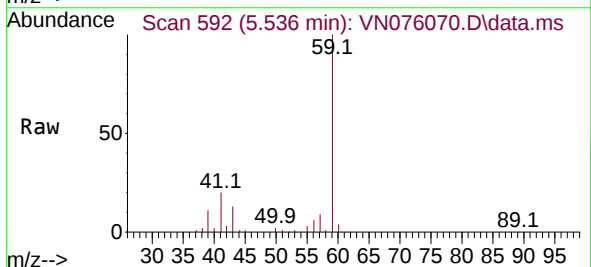
Instrument :
MSVOA_N
ClientSampleId :
MW-2

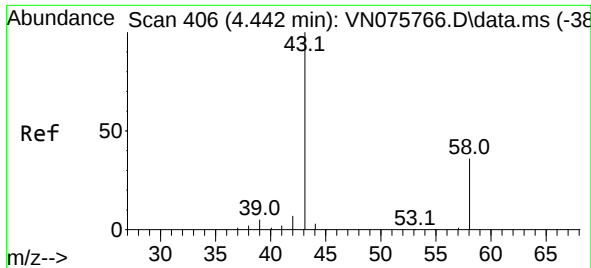
Tgt Ion: 59 Resp: 237381
Ion Ratio Lower Upper
59 100
57 9.9 8.2 12.4



#15
Acrylonitrile
Concen: 1.695 ug/l
RT: 5.536 min Scan# 592
Delta R.T. -0.188 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

Tgt Ion: 53 Resp: 2592
Ion Ratio Lower Upper
53 100
52 6.3 65.4 98.0#
51 12.5 28.9 43.3#

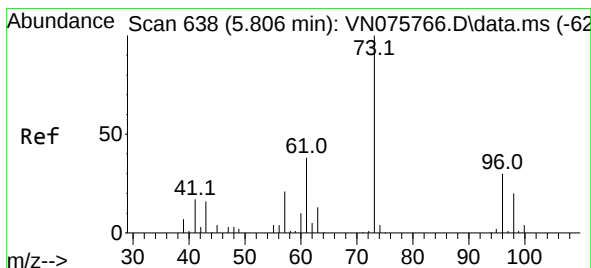
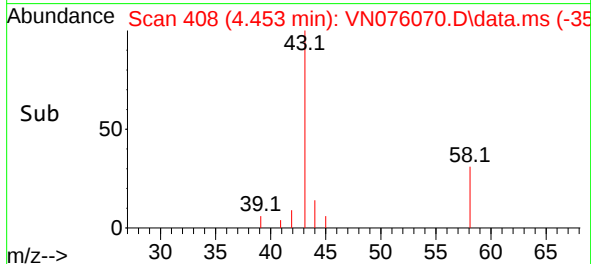
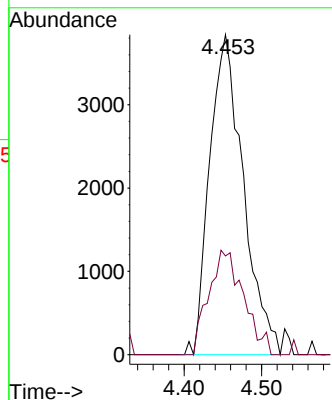
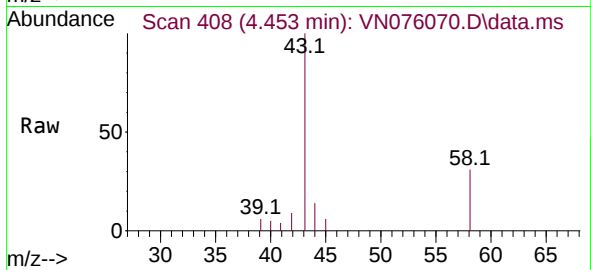




#16
Acetone
Concen: 8.479 ug/l
RT: 4.453 min Scan# 406
Delta R.T. 0.012 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

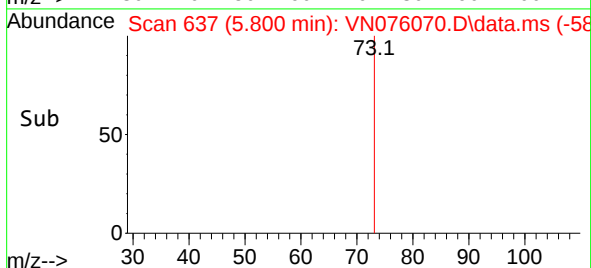
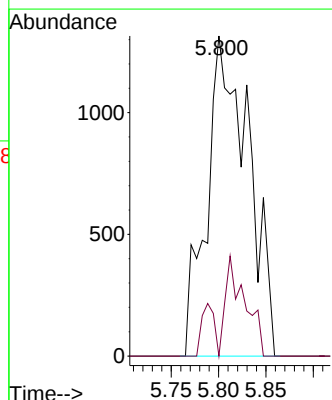
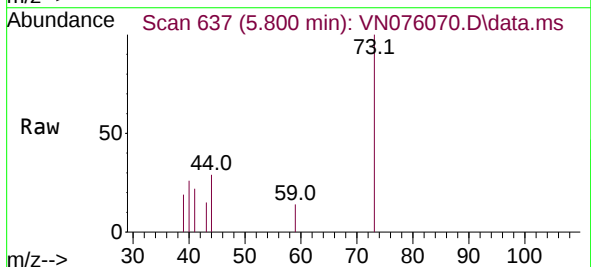
Instrument :
MSVOA_N
ClientSampleId :
MW-2

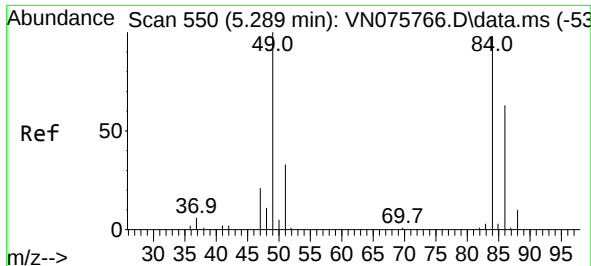
Tgt Ion: 43 Resp: 11575
Ion Ratio Lower Upper
43 100
58 30.9 28.6 43.0



#19
Methyl tert-butyl Ether
Concen: 0.379 ug/l
RT: 5.800 min Scan# 637
Delta R.T. -0.006 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

Tgt Ion: 73 Resp: 4027
Ion Ratio Lower Upper
73 100
57 0.0 17.1 25.7#





#20

Methylene Chloride

Concen: Below Cal

RT: 5.306 min Scan# 51

Delta R.T. 0.017 min

Lab File: VN076070.D

Acq: 03 Jan 2023 17:51

Instrument :

MSVOA_N

ClientSampleId :

MW-2

Tgt Ion: 84 Resp: 61

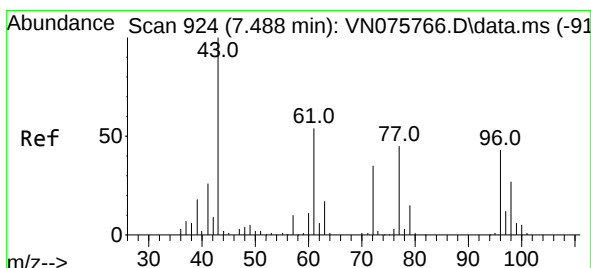
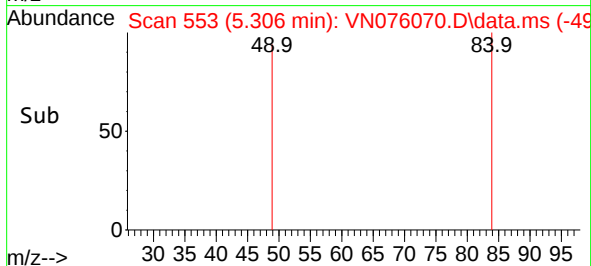
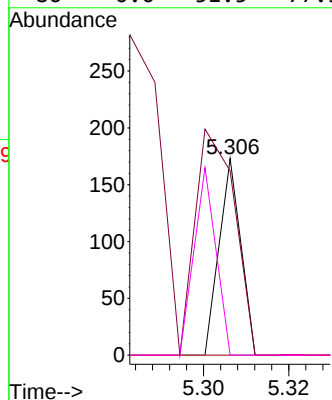
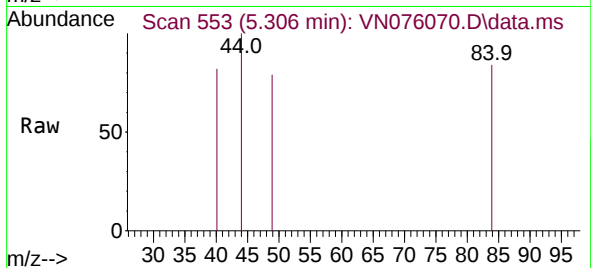
Ion Ratio Lower Upper

84 100

49 93.6 81.8 122.6

51 0.0 26.7 40.1#

86 0.0 51.5 77.3#



#25

2-Butanone

Concen: 1.278 ug/l

RT: 7.506 min Scan# 927

Delta R.T. 0.018 min

Lab File: VN076070.D

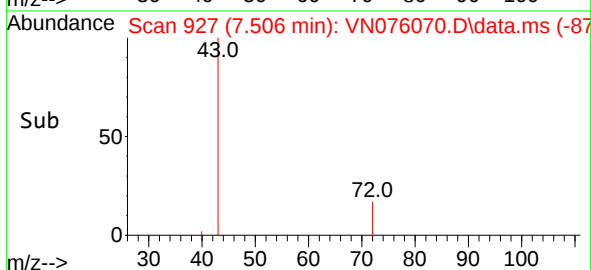
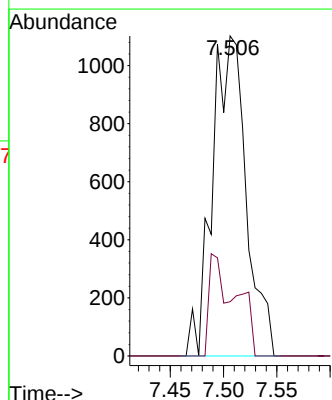
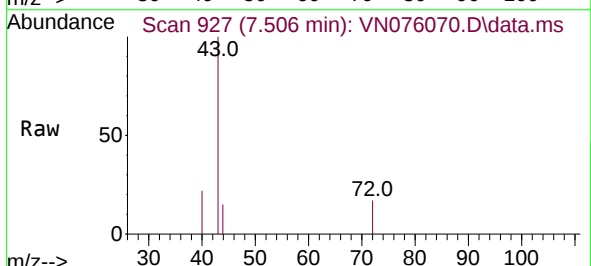
Acq: 03 Jan 2023 17:51

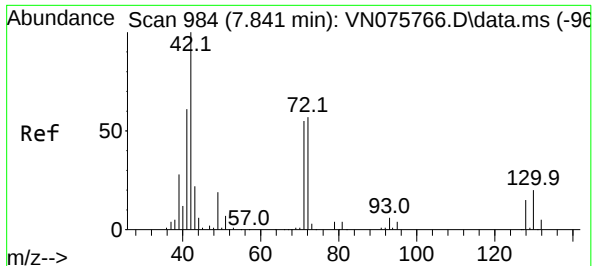
Tgt Ion: 43 Resp: 2443

Ion Ratio Lower Upper

43 100

72 17.0 28.0 42.0#





#29

Tetrahydrofuran

Concen: 1.240 ug/l

RT: 7.847 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN076070.D

Acq: 03 Jan 2023 17:51

Instrument :

MSVOA_N

ClientSampleId :

MW-2

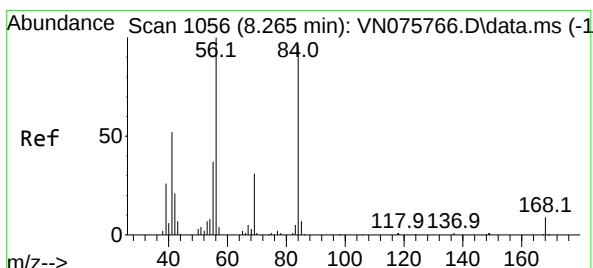
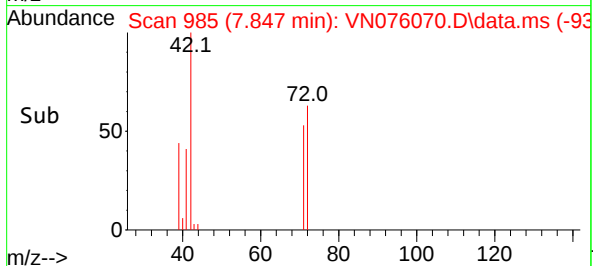
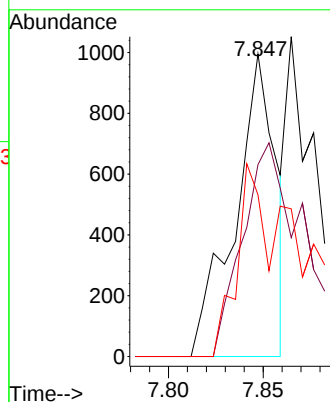
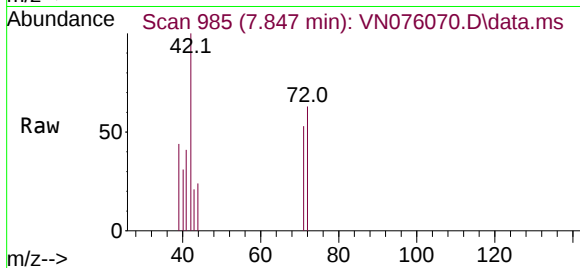
Tgt Ion: 42 Resp: 1486

Ion Ratio Lower Upper

42 100

72 104.6 44.5 66.7#

71 43.6 41.0 61.6



#31

Cyclohexane

Concen: 1.132 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.029 min

Lab File: VN076070.D

Acq: 03 Jan 2023 17:51

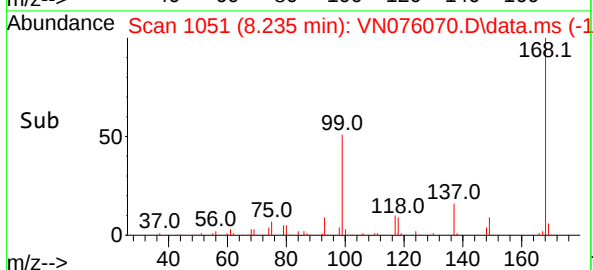
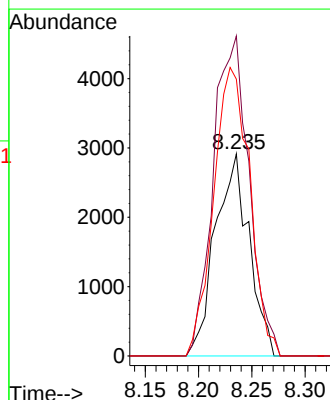
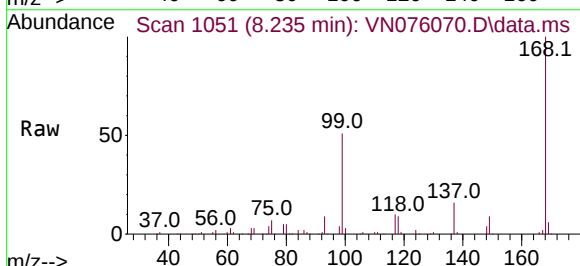
Tgt Ion: 56 Resp: 6422

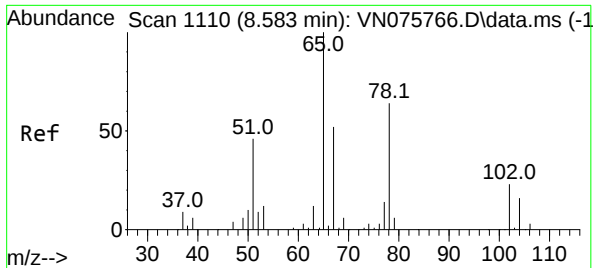
Ion Ratio Lower Upper

56 100

69 158.3 24.7 37.1#

84 136.9 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 47.003 ug/l

RT: 8.588 min Scan# 1111

Delta R.T. 0.006 min

Lab File: VN076070.D

Acq: 03 Jan 2023 17:51

Instrument :

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ClientSampleId :

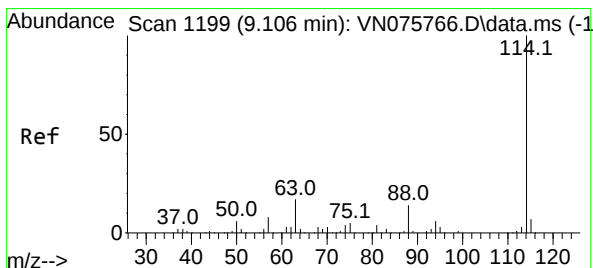
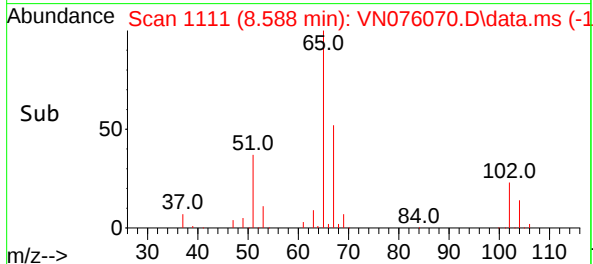
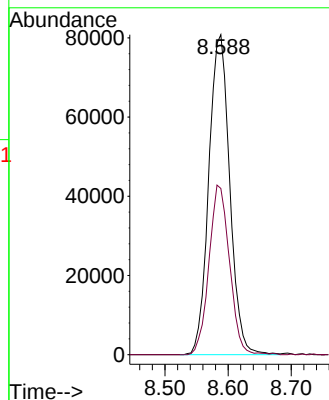
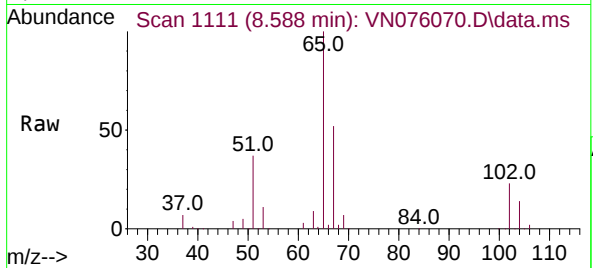
MW-2

Tgt Ion: 65 Resp: 186148

Ion Ratio Lower Upper

65 100

67 52.0 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: VN076070.D

Acq: 03 Jan 2023 17:51

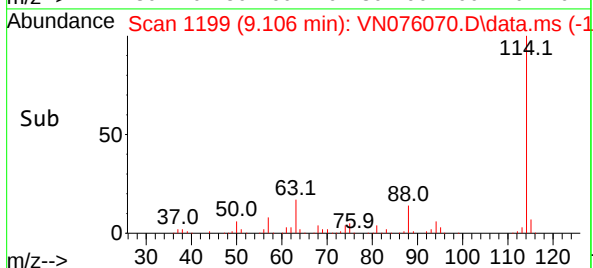
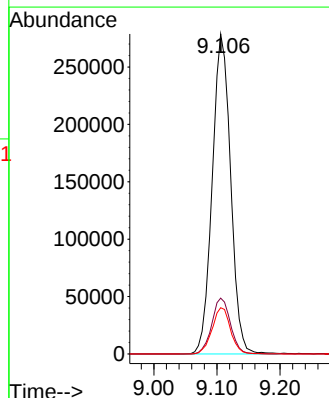
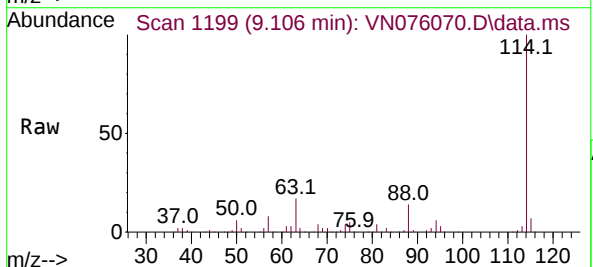
Tgt Ion: 114 Resp: 564126

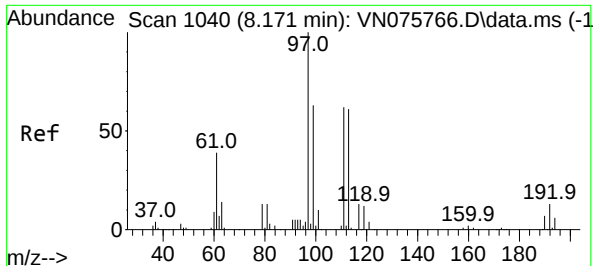
Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.4

88 14.4 0.0 28.8





#35

Dibromofluoromethane

Concen: 48.896 ug/l

RT: 8.177 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN076070.D

Acq: 03 Jan 2023 17:51

Instrument :

MSVOA_N

ClientSampleId :

MW-2

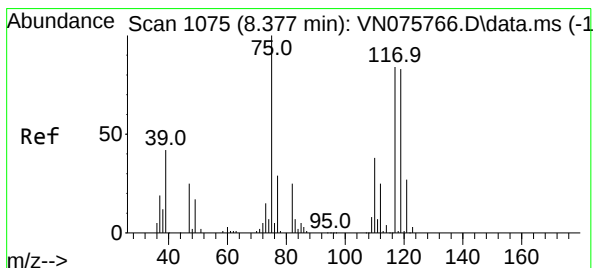
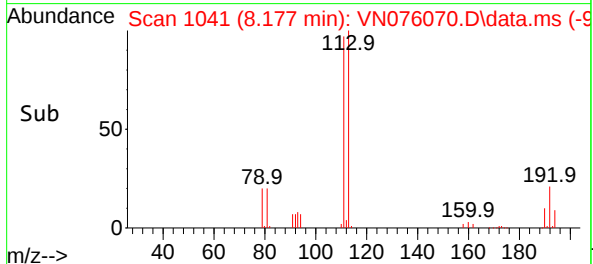
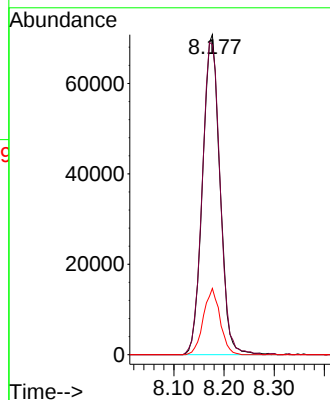
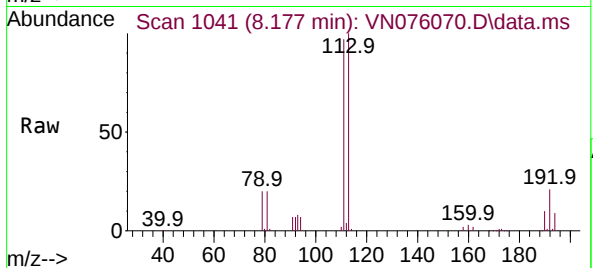
Tgt Ion:113 Resp: 170819

Ion Ratio Lower Upper

113 100

111 100.4 83.4 125.2

192 19.7 16.1 24.1



#36

1,1-Dichloropropene

Concen: 5.456 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.141 min

Lab File: VN076070.D

Acq: 03 Jan 2023 17:51

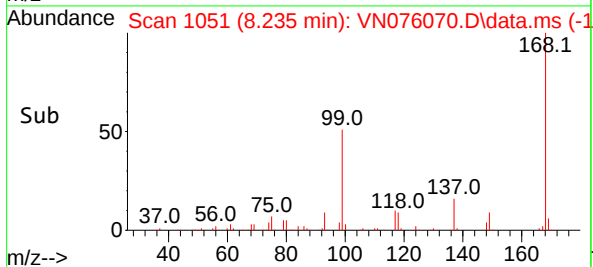
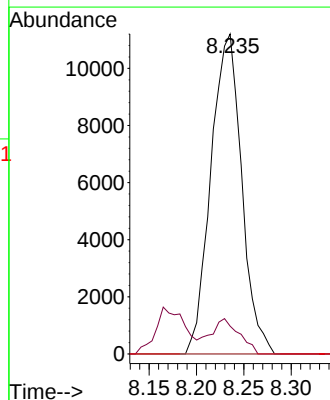
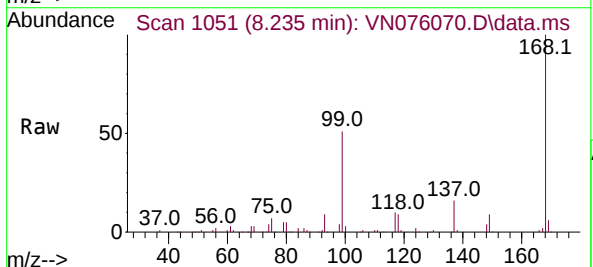
Tgt Ion: 75 Resp: 25322

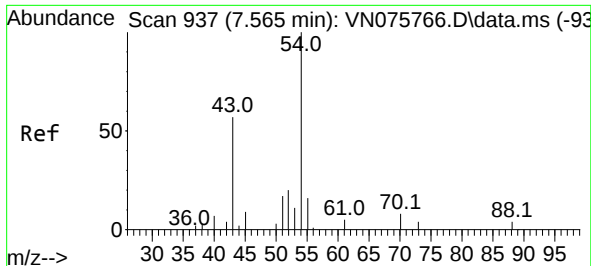
Ion Ratio Lower Upper

75 100

110 9.6 18.8 56.4#

77 0.0 24.1 36.1#





#37

Ethyl Acetate

Concen: 0.655 ug/l

RT: 7.506 min Scan# 91

Delta R.T. -0.059 min

Lab File: VN076070.D

Acq: 03 Jan 2023 17:51

Instrument :

MSVOA_N

ClientSampleId :

MW-2

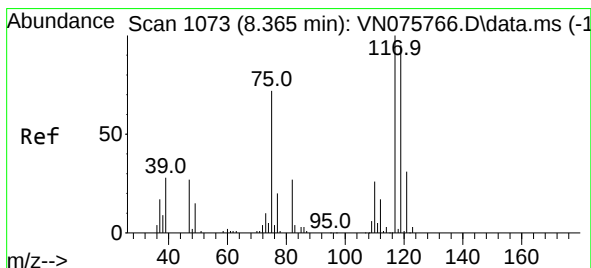
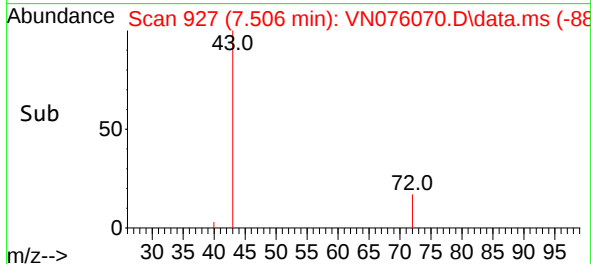
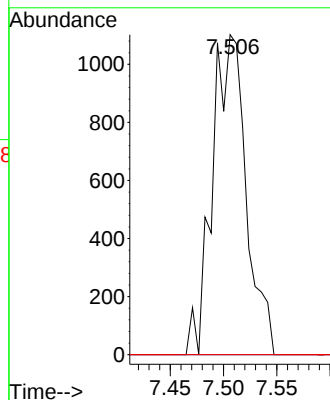
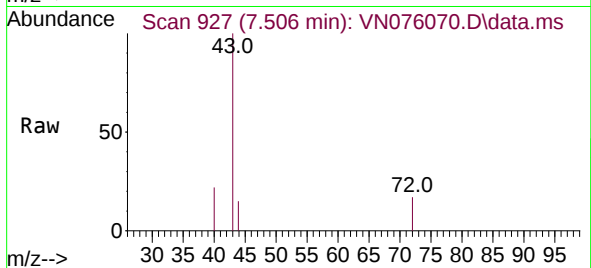
Tgt Ion: 43 Resp: 2443

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

70 0.0 9.4 14.0#



#38

Carbon Tetrachloride

Concen: 6.768 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.129 min

Lab File: VN076070.D

Acq: 03 Jan 2023 17:51

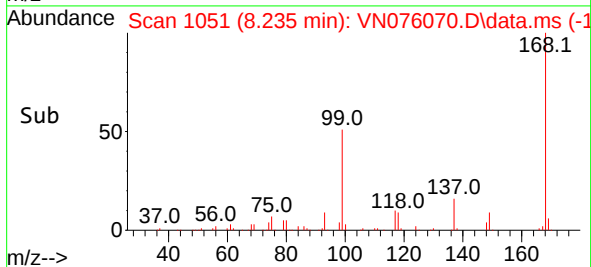
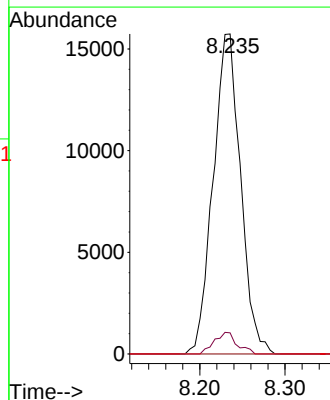
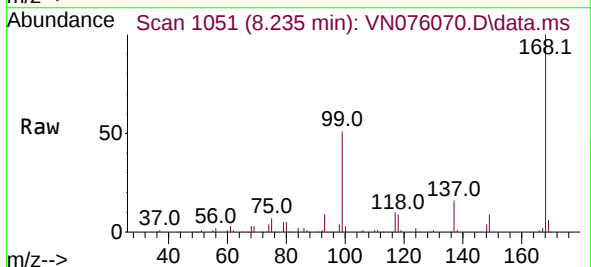
Tgt Ion: 117 Resp: 35154

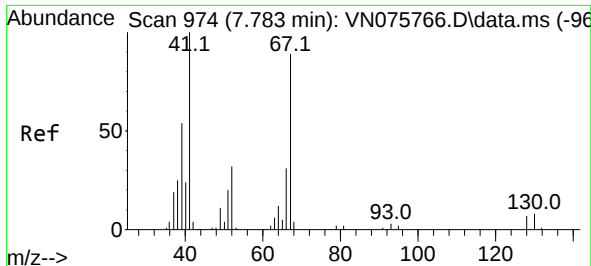
Ion Ratio Lower Upper

117 100

119 6.6 76.1 114.1#

121 0.0 24.5 36.7#

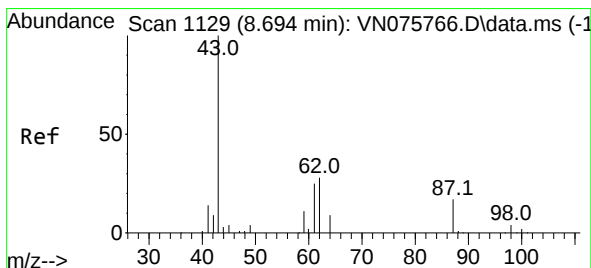
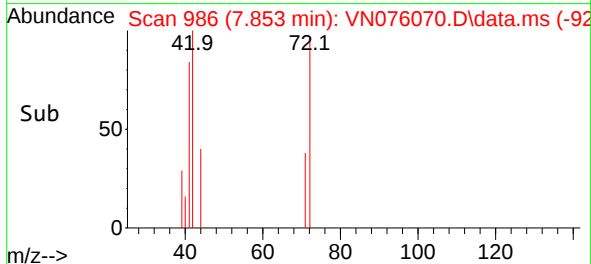
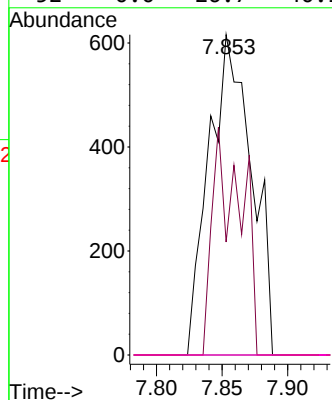
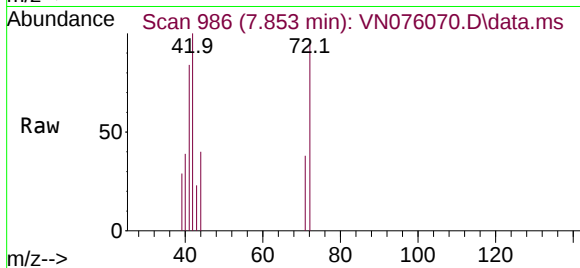




#41
Methacrylonitrile
Concen: 0.721 ug/l
RT: 7.853 min Scan# 911
Delta R.T. 0.071 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

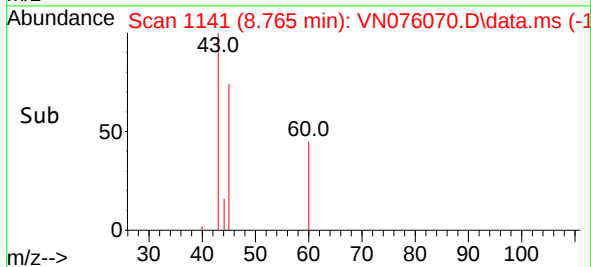
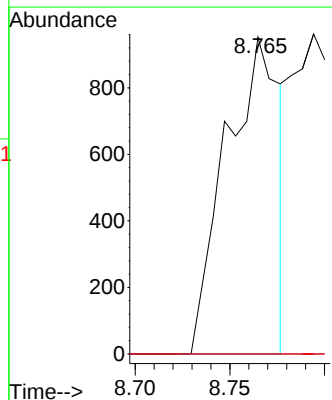
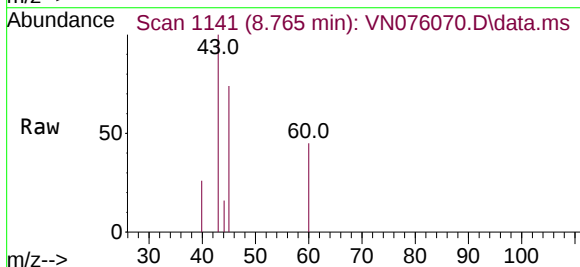
Instrument :
MSVOA_N
ClientSampleId :
MW-2

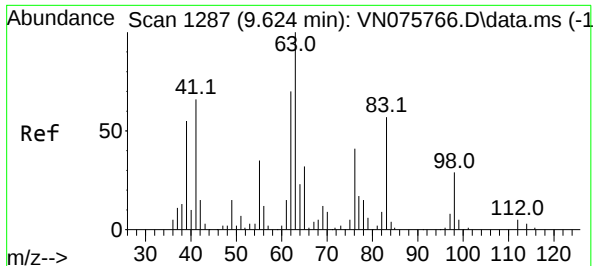
Tgt Ion:	41	Resp:	1398
Ion	Ratio	Lower	Upper
41	100		
39	22.7	43.1	64.7#
67	0.0	70.7	106.1#
52	0.0	26.7	40.1#



#43
Isopropyl Acetate
Concen: 0.302 ug/l
RT: 8.765 min Scan# 1141
Delta R.T. 0.071 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

Tgt Ion:	43	Resp:	1859
Ion	Ratio	Lower	Upper
43	100		
61	0.0	24.2	36.4#
87	0.0	13.3	19.9#





#45

1,2-Dichloropropane

Concen: 0.281 ug/l

RT: 9.624 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076070.D

Acq: 03 Jan 2023 17:51

Instrument :

MSVOA_N

ClientSampleId :

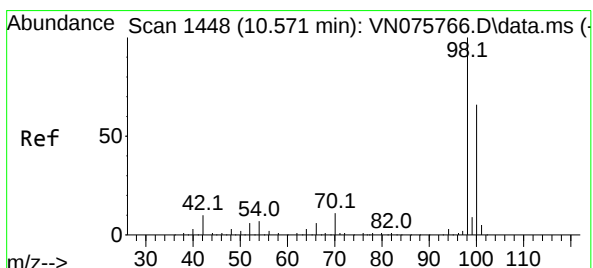
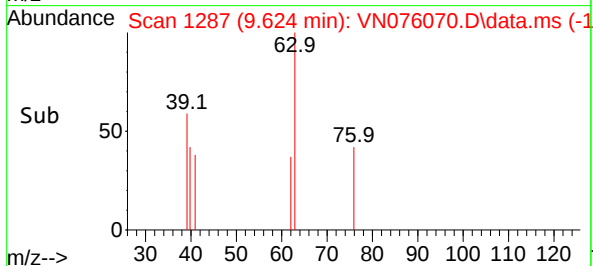
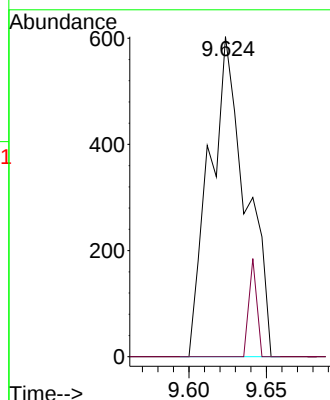
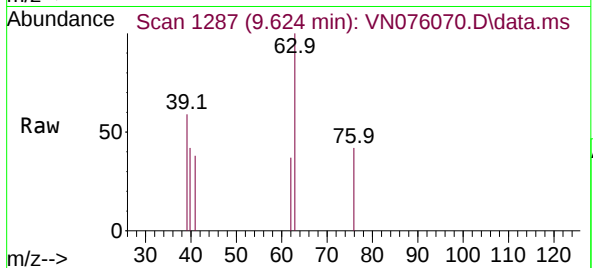
MW-2

Tgt Ion: 63 Resp: 980

Ion Ratio Lower Upper

63 100

65 0.0 25.7 38.5#



#50

Toluene-d8

Concen: 49.090 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN076070.D

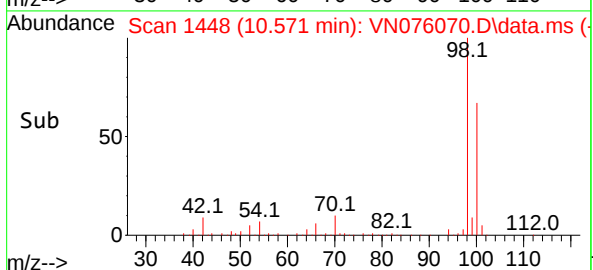
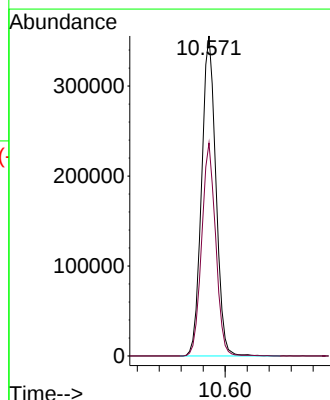
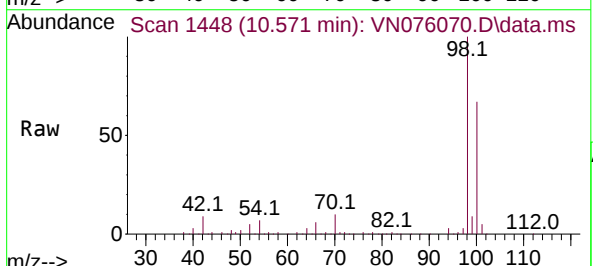
Acq: 03 Jan 2023 17:51

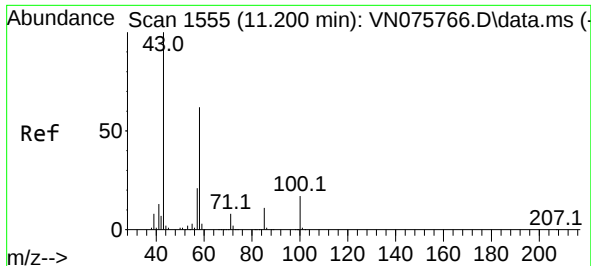
Tgt Ion: 98 Resp: 641214

Ion Ratio Lower Upper

98 100

100 65.2 52.1 78.1

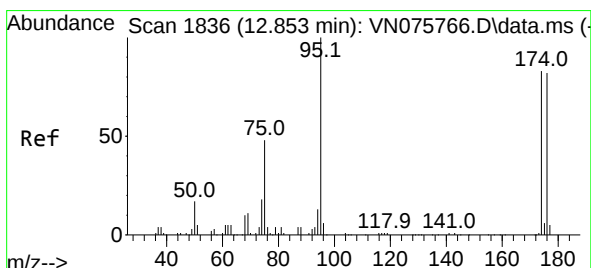
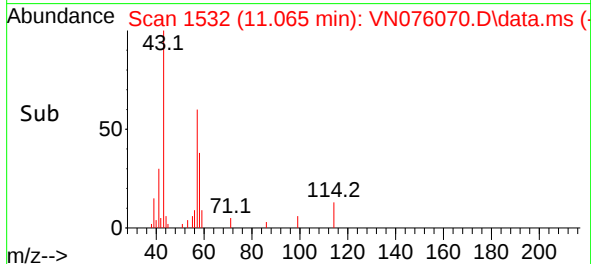
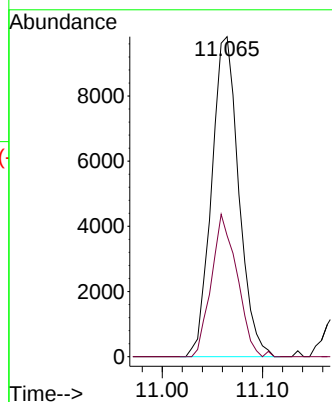
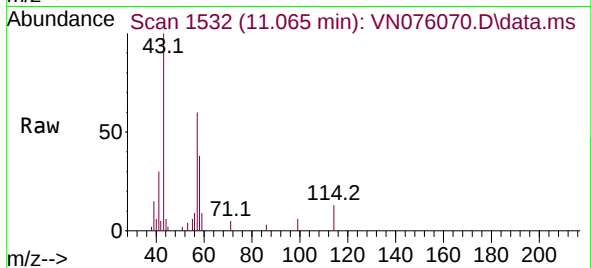




#59
2-Hexanone
Concen: 6.825 ug/l
RT: 11.065 min Scan# 1532
Delta R.T. -0.135 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

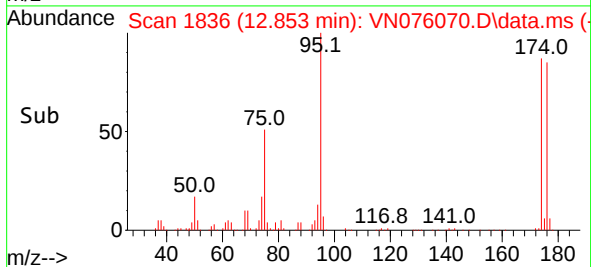
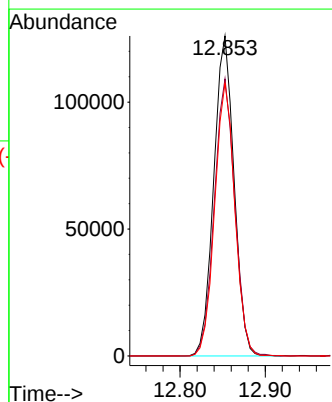
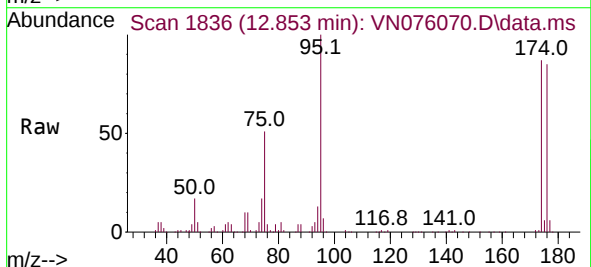
Instrument :
MSVOA_N
ClientSampleId :
MW-2

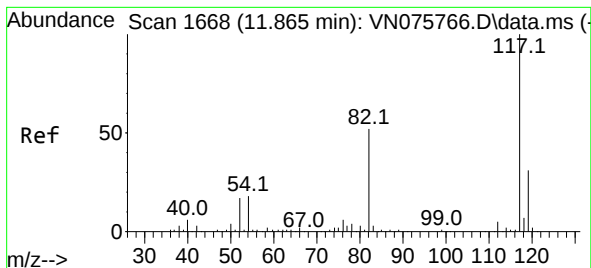
Tgt Ion: 43 Resp: 18510
Ion Ratio Lower Upper
43 100
58 42.0 30.6 92.0



#62
4-Bromofluorobenzene
Concen: 48.269 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

Tgt Ion: 95 Resp: 208826
Ion Ratio Lower Upper
95 100
174 87.5 0.0 171.6
176 84.4 0.0 169.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.870 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN076070.D

Acq: 03 Jan 2023 17:51

Instrument :

MSVOA_N

ClientSampleId :

MW-2

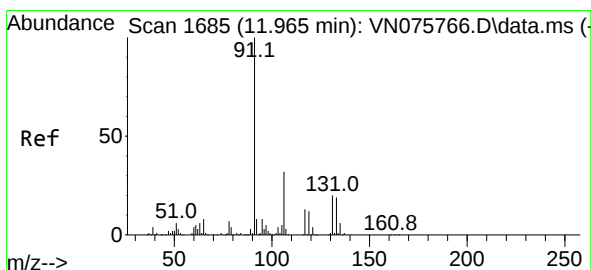
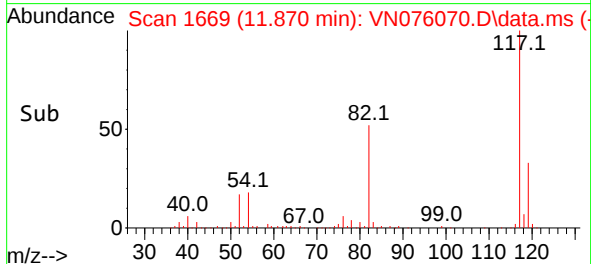
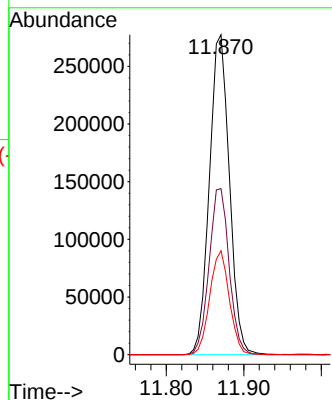
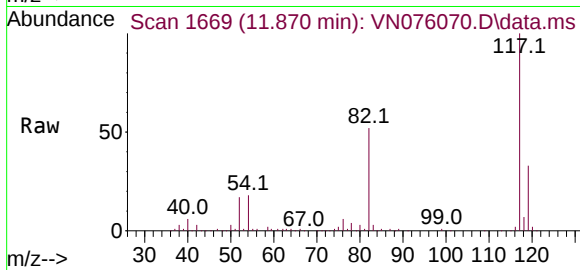
Tgt Ion:117 Resp: 497641

Ion Ratio Lower Upper

117 100

82 51.9 41.3 61.9

119 32.5 24.6 37.0



#67

Ethyl Benzene

Concen: 0.248 ug/l

RT: 11.970 min Scan# 1686

Delta R.T. 0.006 min

Lab File: VN076070.D

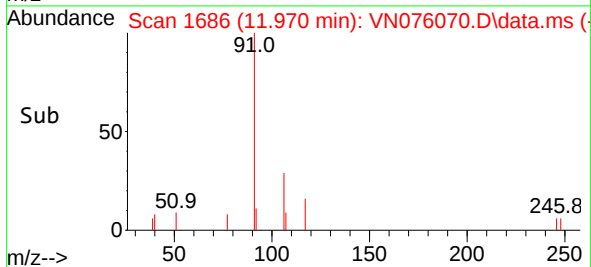
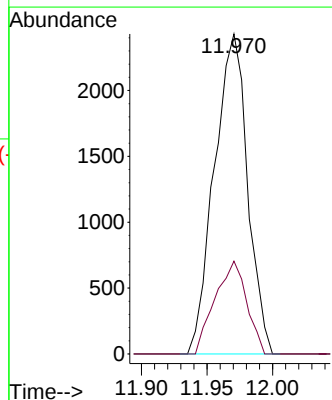
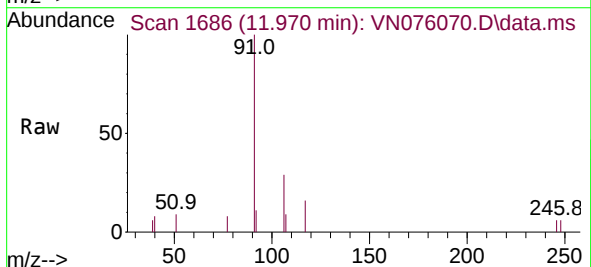
Acq: 03 Jan 2023 17:51

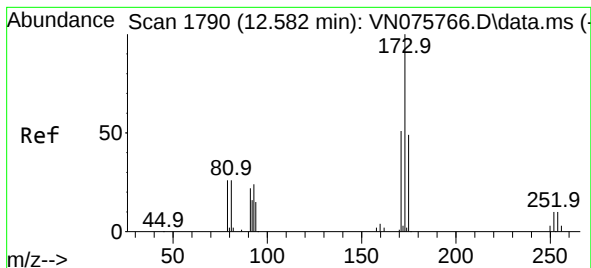
Tgt Ion: 91 Resp: 4278

Ion Ratio Lower Upper

91 100

106 29.0 25.7 38.5





#71

Bromoform

Concen: 0.525 ug/l

RT: 12.847 min Scan# 1835

Delta R.T. 0.265 min

Lab File: VN076070.D

Acq: 03 Jan 2023 17:51

Instrument :

MSVOA_N

ClientSampleId :

MW-2

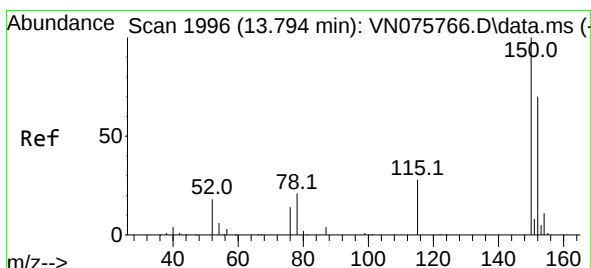
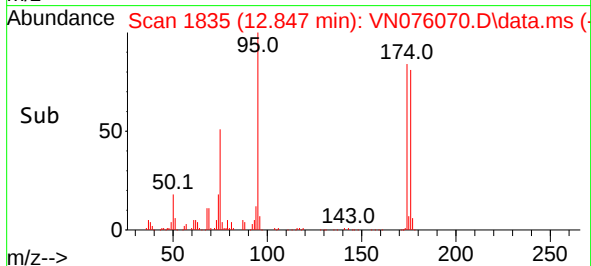
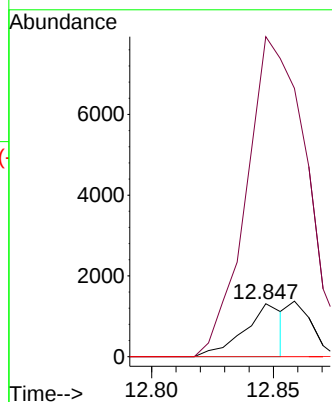
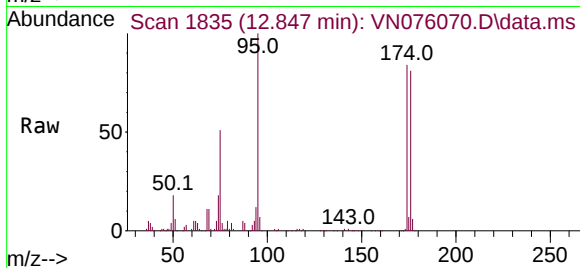
Tgt Ion:173 Resp: 1445

Ion Ratio Lower Upper

173 100

175 760.6 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: VN076070.D

Acq: 03 Jan 2023 17:51

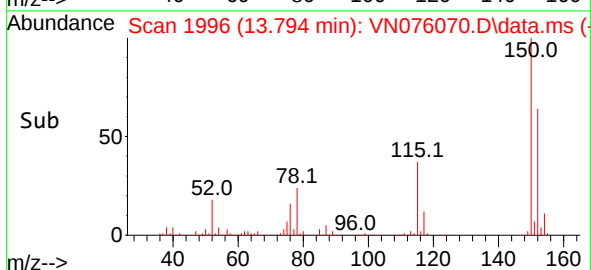
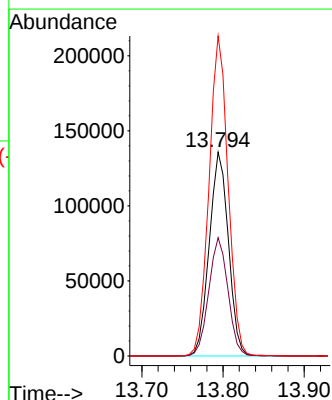
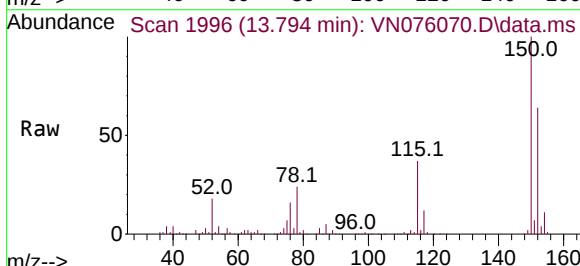
Tgt Ion:152 Resp: 222356

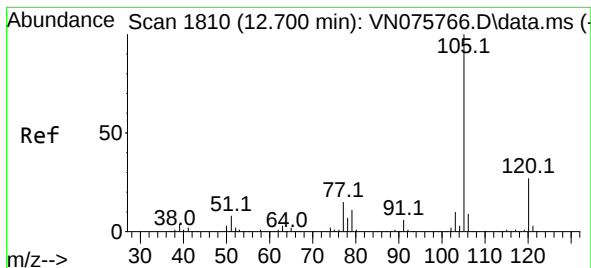
Ion Ratio Lower Upper

152 100

115 58.0 29.1 87.4

150 156.4 0.0 347.0





#73

Isopropylbenzene

Concen: 0.226 ug/l

RT: 12.694 min Scan# 1809

Delta R.T. -0.006 min

Lab File: VN076070.D

Acq: 03 Jan 2023 17:51

Instrument :

MSVOA_N

ClientSampleId :

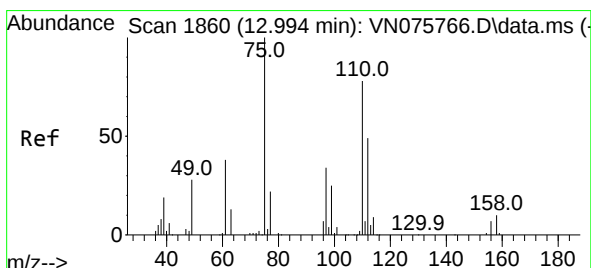
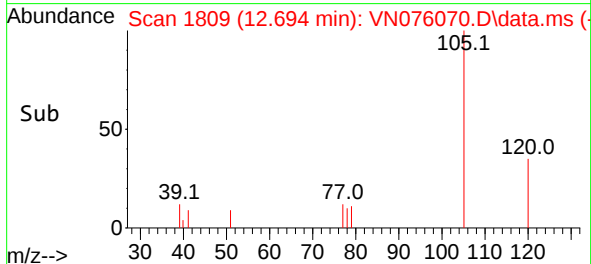
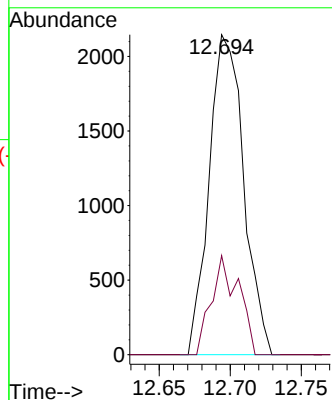
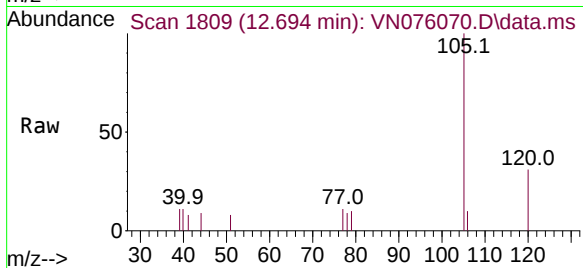
MW-2

Tgt Ion:105 Resp: 3625

Ion Ratio Lower Upper

105 100

120 24.5 13.4 40.2



#76

1,2,3-Trichloropropane

Concen: 23.588 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076070.D

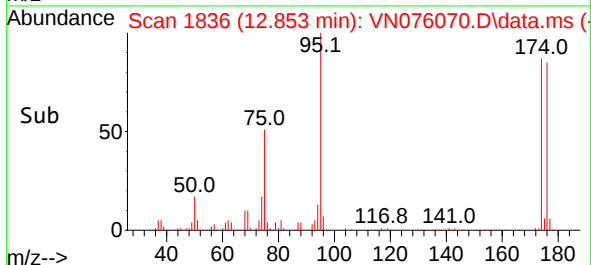
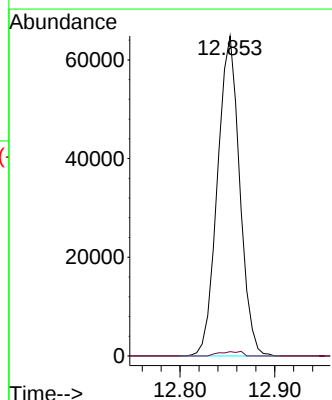
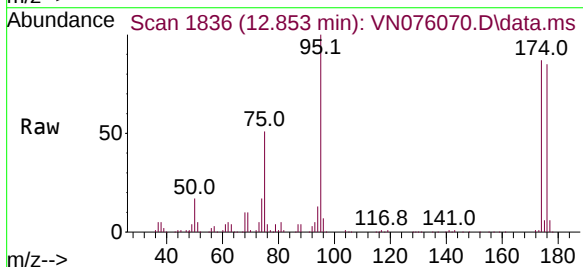
Acq: 03 Jan 2023 17:51

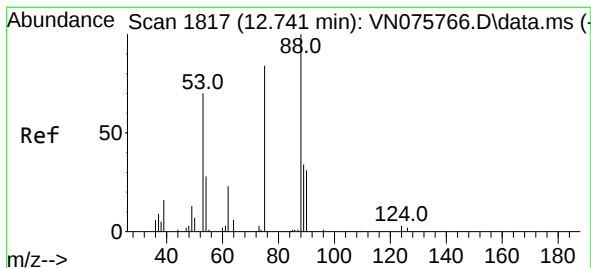
Tgt Ion: 75 Resp: 105723

Ion Ratio Lower Upper

75 100

77 1.4 82.6 247.8#

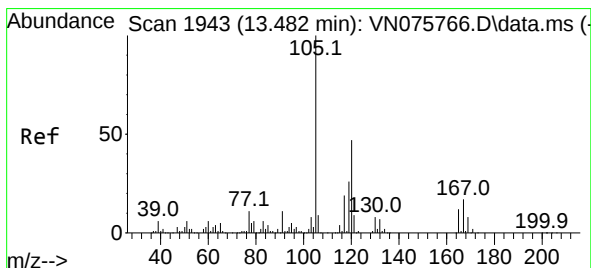
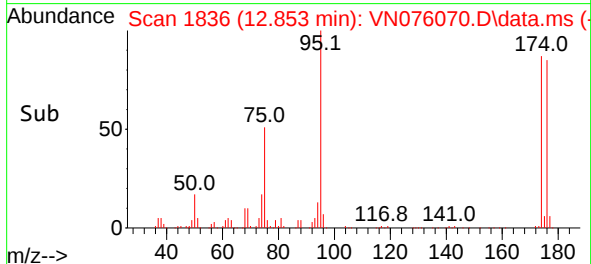
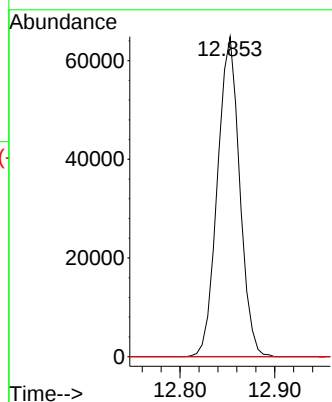
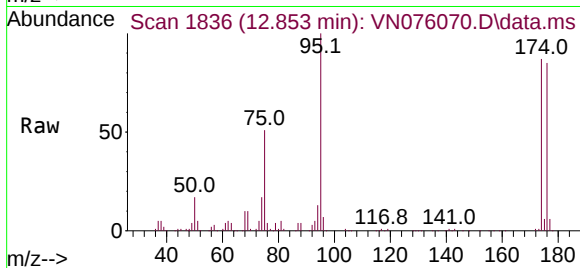




#81
trans-1,4-Dichloro-2-butene
Concen: 84.903 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

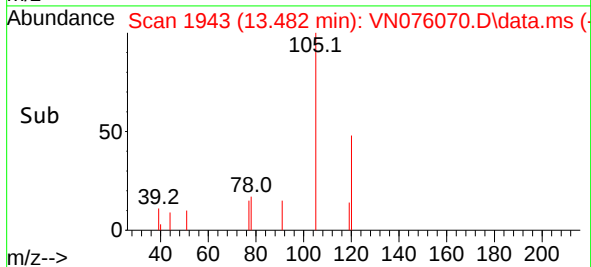
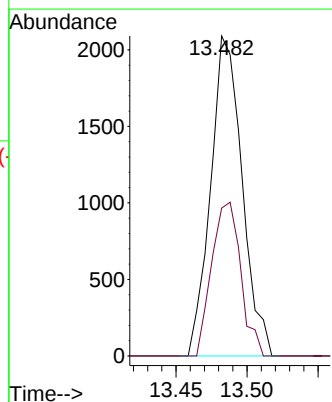
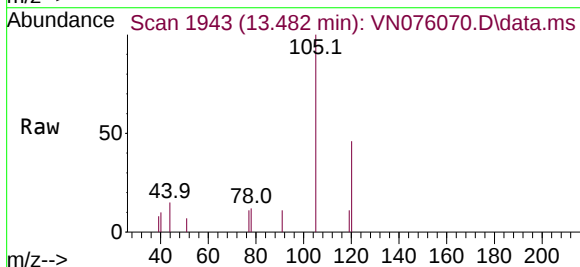
Instrument :
MSVOA_N
ClientSampleId :
MW-2

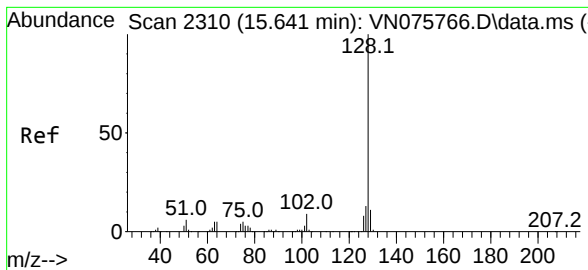
Tgt Ion: 75 Resp: 105723
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#



#84
1,2,4-Trimethylbenzene
Concen: 0.241 ug/l
RT: 13.482 min Scan# 1943
Delta R.T. -0.000 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

Tgt Ion:105 Resp: 3221
Ion Ratio Lower Upper
105 100
120 44.3 23.3 69.8





#95
Naphthalene
Concen: 3.202 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN076070.D
Acq: 03 Jan 2023 17:51

Instrument :
MSVOA_N
ClientSampleId :
MW-2

Tgt Ion:	128	Resp:	12956
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.4	15.6
129	12.2	8.7	13.1

