

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011923\
 Data File : VN076321.D
 Acq On : 19 Jan 2023 14:31
 Operator : JC\MD
 Sample : 01221-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13-0118

Quant Time: Jan 20 00:56:30 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)

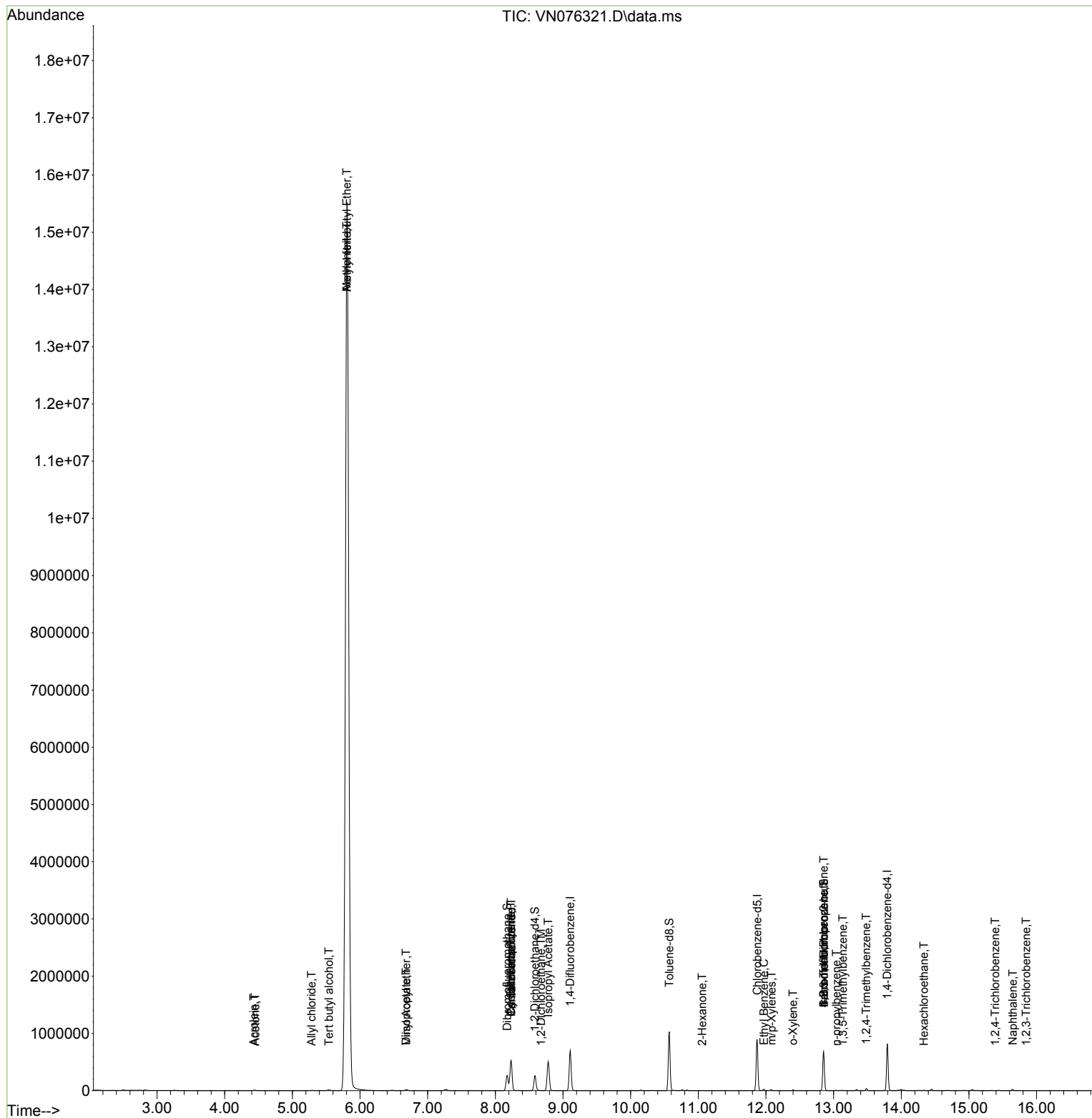
Internal Standards						
1) Pentafluorobenzene	8.236	168	411546	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	650509	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	552596	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	229935	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	211487	45.895	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.800%		
35) Dibromofluoromethane	8.177	113	192810	47.383	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.760%		
50) Toluene-d8	10.571	98	736235	48.991	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.980%		
62) 4-Bromofluorobenzene	12.853	95	229510	46.782	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.560%		
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.542	59	23483	38.100	ug/l #	72
13) Acrolein	4.430	56	867	1.176	ug/l #	74
14) Allyl chloride	5.283	41	2315	0.504	ug/l #	50
15) Acrylonitrile	5.806	53	261778	149.251	ug/l #	29
16) Acetone	4.453	43	6145	4.088	ug/l #	66
19) Methyl tert-butyl Ether	5.806	73	27007166	2104.538	ug/l	97
20) Methylene Chloride	5.283	84	215	Below Cal	#	13
22) Diisopropyl ether	6.683	45	18166	1.677	ug/l #	94
23) Vinyl Acetate	6.683	43	10025	1.432	ug/l #	66
31) Cyclohexane	8.230	56	8945	1.264	ug/l #	47
36) 1,1-Dichloropropene	8.230	75	29908	5.172	ug/l #	48
38) Carbon Tetrachloride	8.236	117	39237	6.085	ug/l #	15
42) 1,2-Dichloroethane	8.677	62	1572	0.266	ug/l #	73
43) Isopropyl Acetate	8.783	43	131684	17.453	ug/l #	6
59) 2-Hexanone	11.059	43	2301	0.717	ug/l	64
67) Ethyl Benzene	11.971	91	16406	0.821	ug/l	94
68) m/p-Xylenes	12.082	106	5616	0.701	ug/l	100
69) o-Xylene	12.400	106	4357	0.553	ug/l	95
71) Bromoform	12.853	173	1760	0.561	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	121381	28.571	ug/l #	1
78) n-propylbenzene	13.041	91	5755	0.287	ug/l	98
80) 1,3,5-Trimethylbenzene	13.135	105	7647	0.513	ug/l	65
81) trans-1,4-Dichloro-2-b...	12.853	75	121381	87.832	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.482	105	22003	1.473	ug/l	100
90) Hexachloroethane	14.335	117	523	0.200	ug/l #	12
93) 1,2,4-Trichlorobenzene	15.388	180	146	1.340	ug/l #	1
95) Naphthalene	15.647	128	21526	3.574	ug/l	99
96) 1,2,3-Trichlorobenzene	15.847	180	55	1.168	ug/l #	1

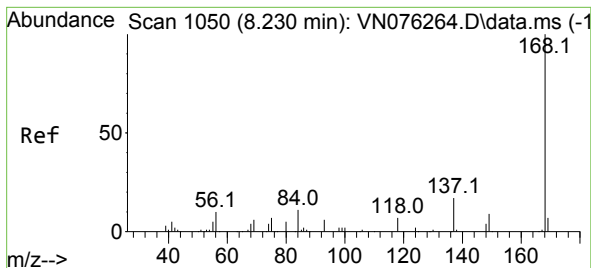
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jan 17 03:59:22 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN076321.D

Acq: 19 Jan 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

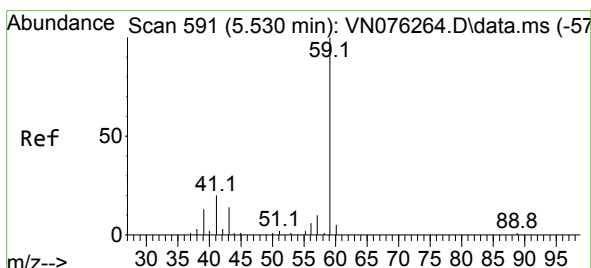
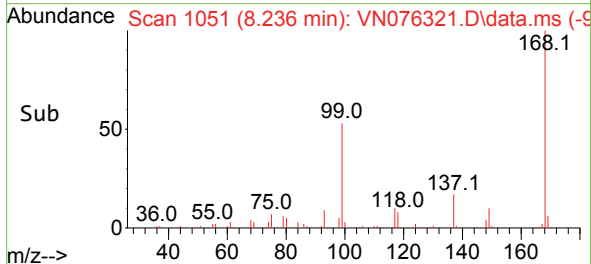
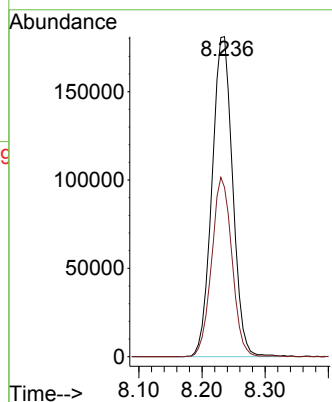
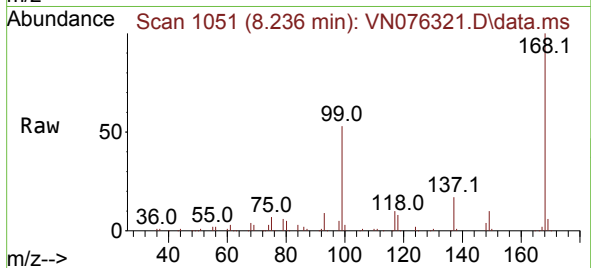
MW-13-0118

Tgt Ion:168 Resp: 411546

Ion Ratio Lower Upper

168 100

99 52.9 41.6 62.4



#11

Tert butyl alcohol

Concen: 38.100 ug/l

RT: 5.542 min Scan# 593

Delta R.T. 0.012 min

Lab File: VN076321.D

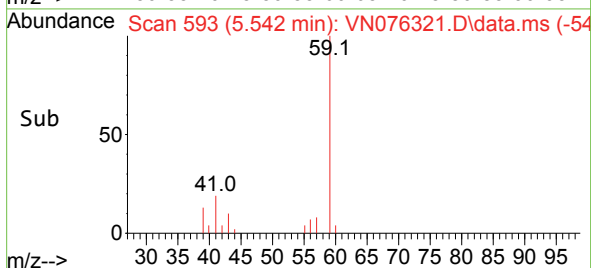
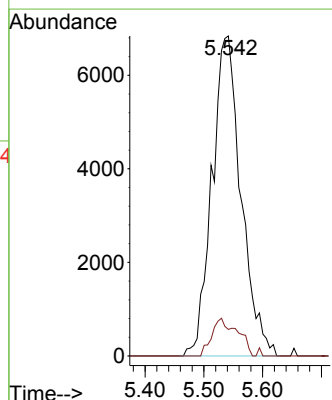
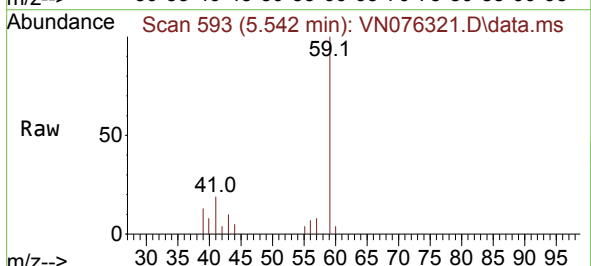
Acq: 19 Jan 2023 14:31

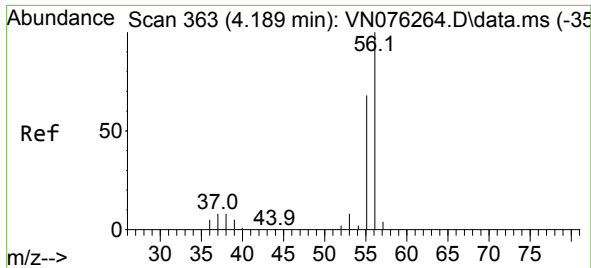
Tgt Ion: 59 Resp: 23483

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#13

Acrolein

Concen: 1.176 ug/l

RT: 4.430 min Scan# 404

Delta R.T. 0.241 min

Lab File: VN076321.D

Acq: 19 Jan 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

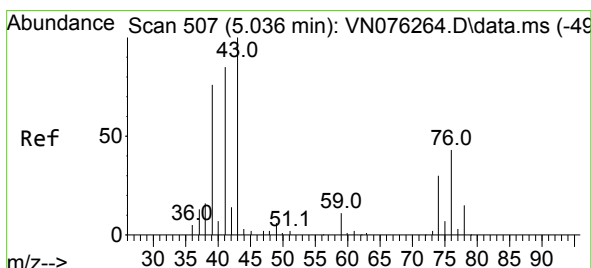
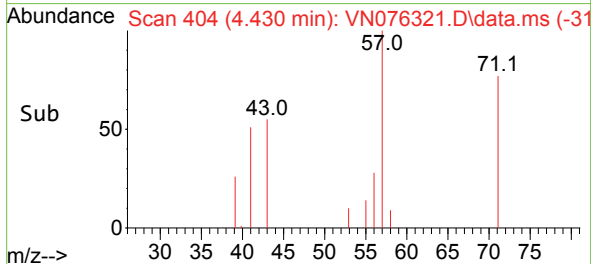
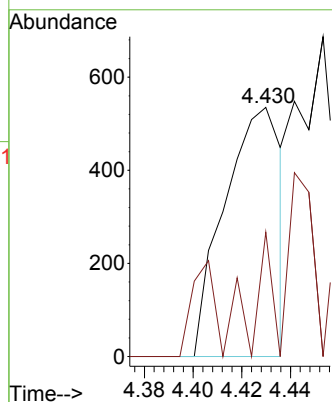
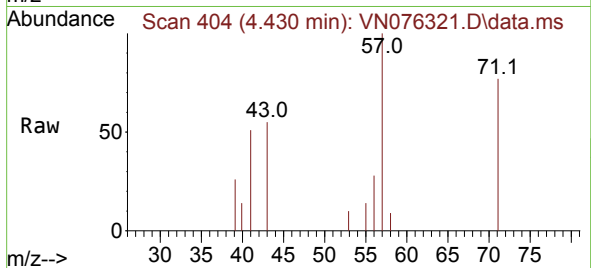
MW-13-0118

Tgt Ion: 56 Resp: 867

Ion Ratio Lower Upper

56 100

55 48.2 55.8 83.6#



#14

Allyl chloride

Concen: 0.504 ug/l

RT: 5.283 min Scan# 549

Delta R.T. 0.247 min

Lab File: VN076321.D

Acq: 19 Jan 2023 14:31

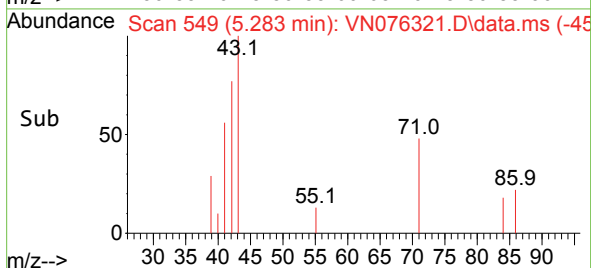
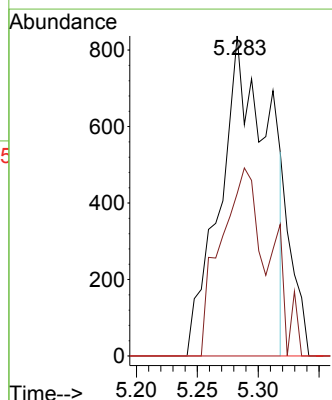
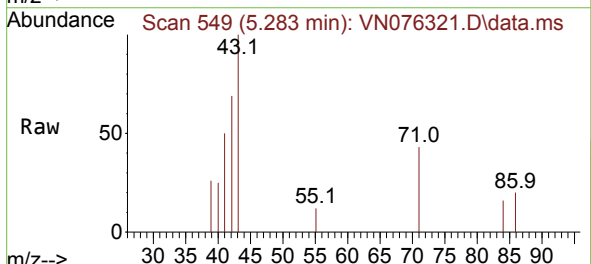
Tgt Ion: 41 Resp: 2315

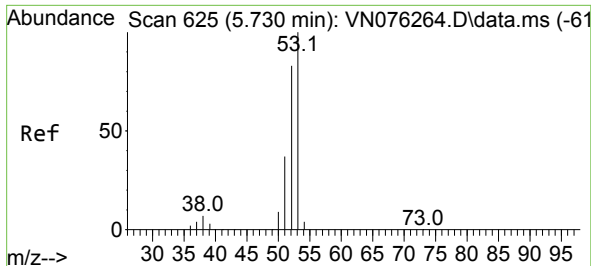
Ion Ratio Lower Upper

41 100

39 50.8 67.4 101.0#

76 0.0 39.8 59.8#

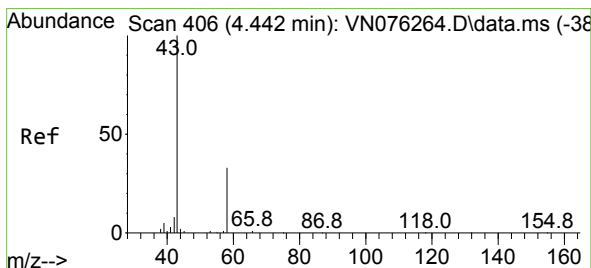
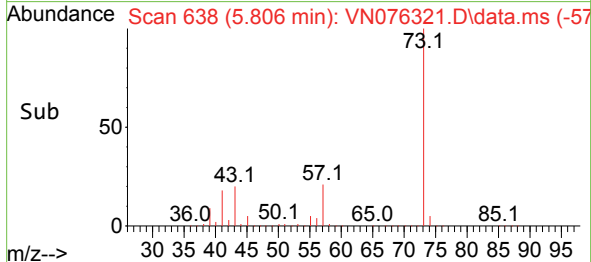
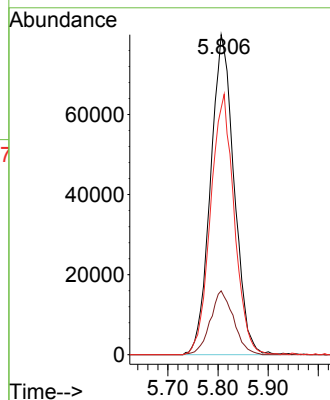
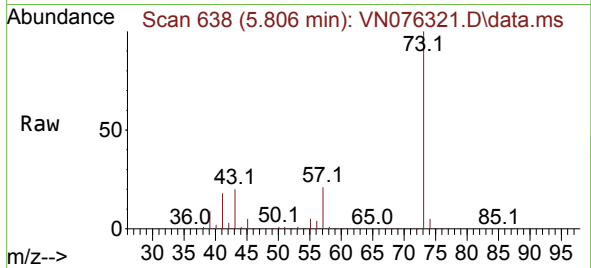




#15
Acrylonitrile
Concen: 149.251 ug/l
RT: 5.806 min Scan# 61
Delta R.T. 0.076 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

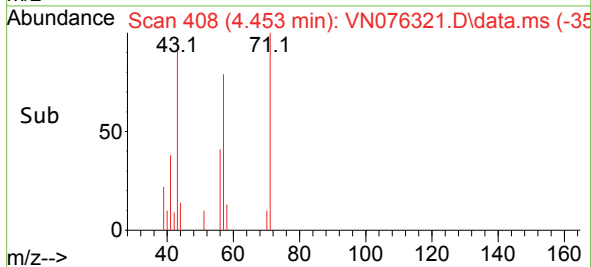
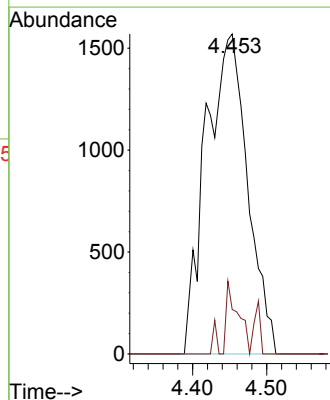
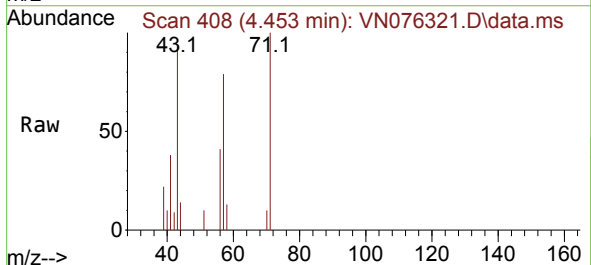
Instrument :
MSVOA_N
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MW-13-0118

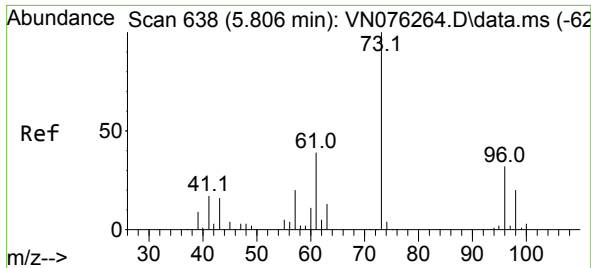
Tgt Ion: 53 Resp: 261778
Ion Ratio Lower Upper
53 100
52 19.7 64.7 97.1#
51 81.5 29.2 43.8#



#16
Acetone
Concen: 4.088 ug/l
RT: 4.453 min Scan# 408
Delta R.T. 0.011 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

Tgt Ion: 43 Resp: 6145
Ion Ratio Lower Upper
43 100
58 13.9 26.7 40.1#

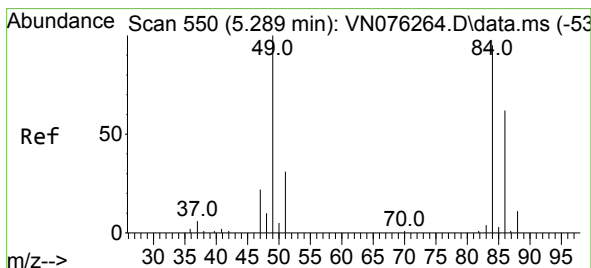
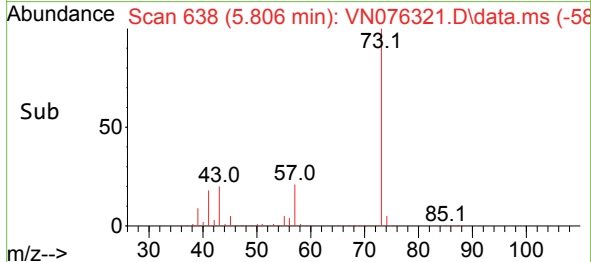
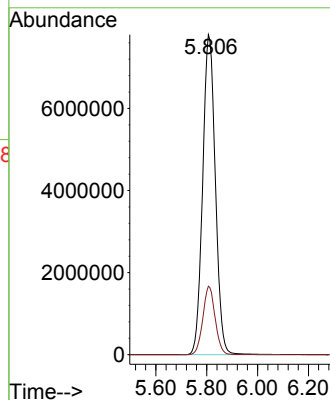
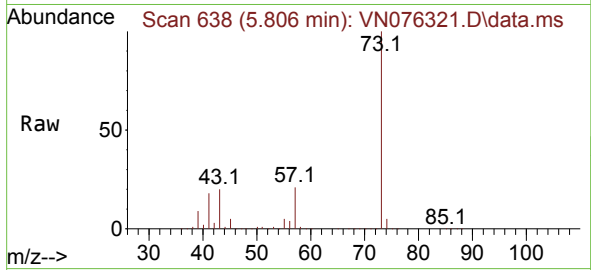




#19
Methyl tert-butyl Ether
Concen: 2104.538 ug/l
RT: 5.806 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

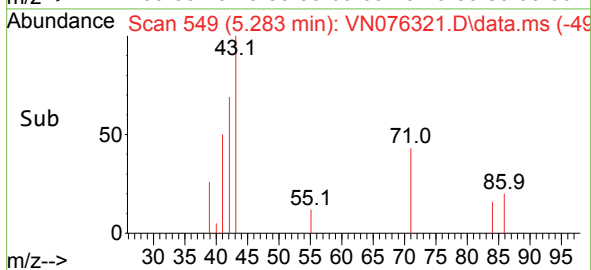
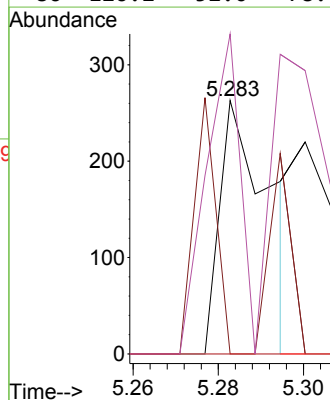
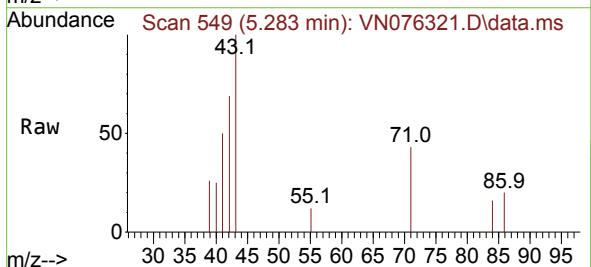
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0118

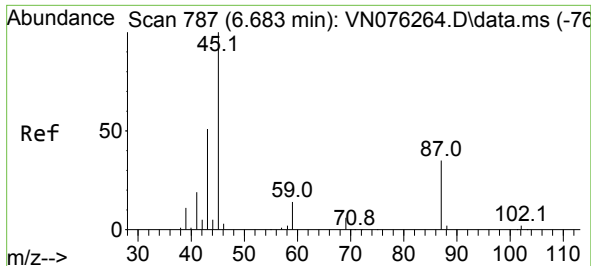
Tgt Ion: 73 Resp:27007166
Ion Ratio Lower Upper
73 100
57 21.4 15.9 23.9



#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 549
Delta R.T. -0.006 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

Tgt Ion: 84 Resp: 215
Ion Ratio Lower Upper
84 100
49 0.0 84.5 126.7#
51 0.0 26.0 39.0#
86 126.2 52.0 78.0#

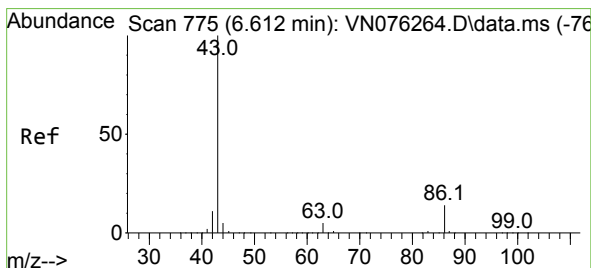
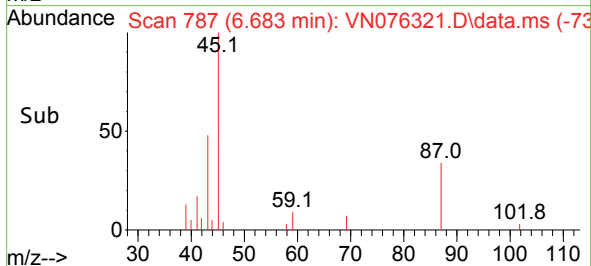
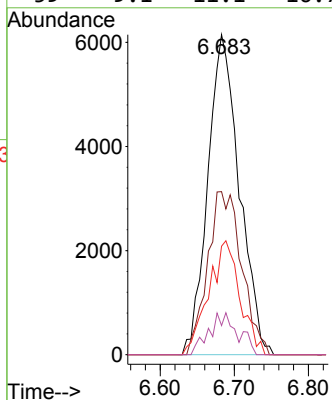
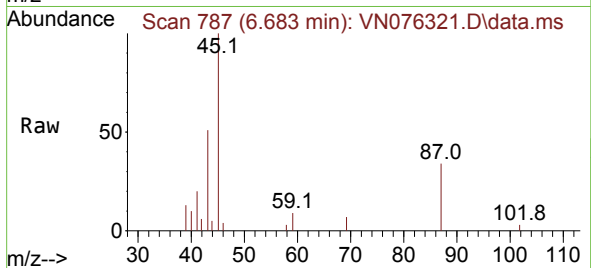




#22
Diisopropyl ether
Concen: 1.677 ug/l
RT: 6.683 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

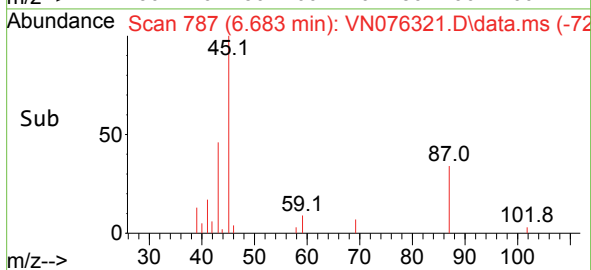
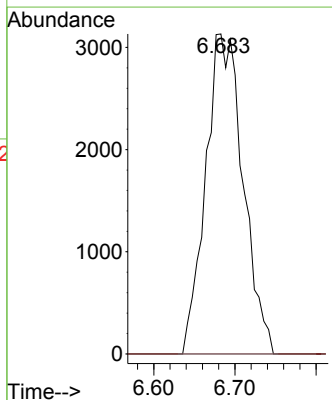
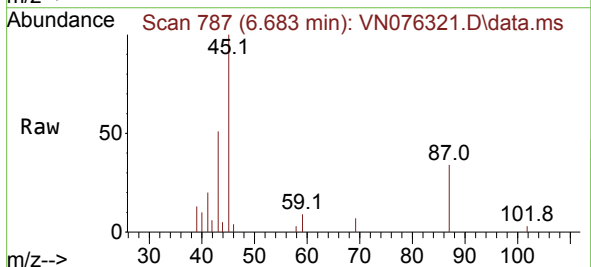
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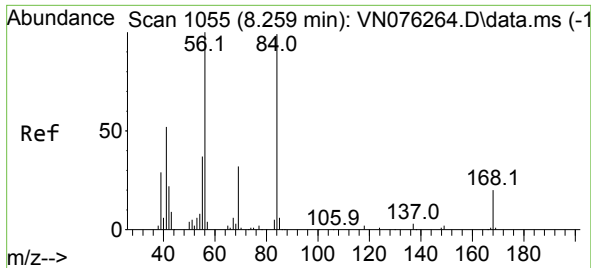
Tgt Ion:	45	Resp:	18166
Ion	Ratio	Lower	Upper
45	100		
43	50.9	44.4	66.6
87	33.9	28.4	42.6
59	9.1	11.1	16.7



#23
Vinyl Acetate
Concen: 1.432 ug/l
RT: 6.683 min Scan# 787
Delta R.T. 0.071 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

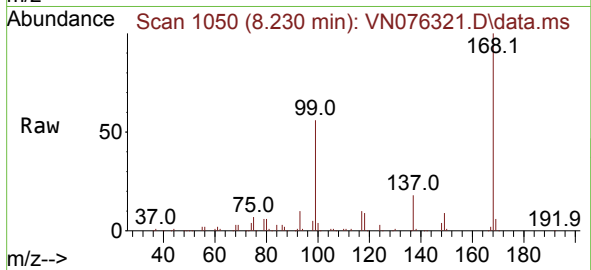
Tgt Ion:	43	Resp:	10025
Ion	Ratio	Lower	Upper
43	100		
86	0.0	11.2	16.8



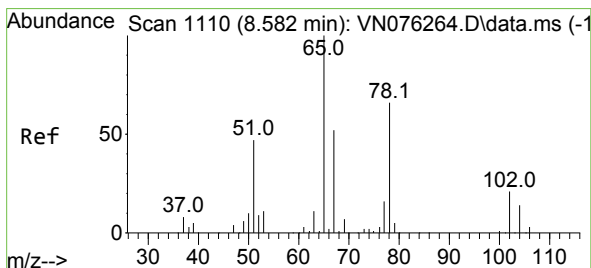
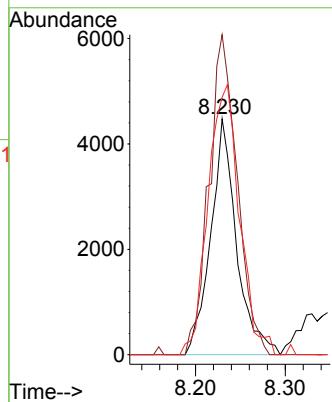
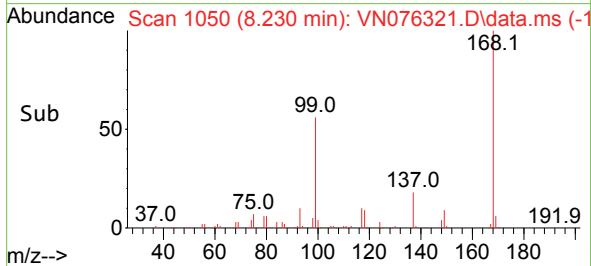


#31
Cyclohexane
Concen: 1.264 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.029 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

Instrument :
MSVOA_N
ClientSampleId :
MW-13-0118

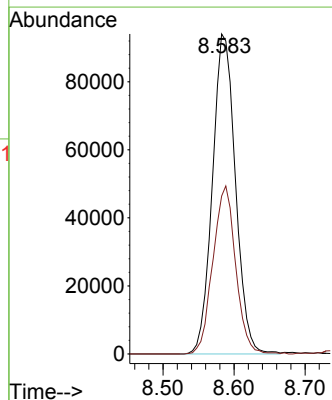
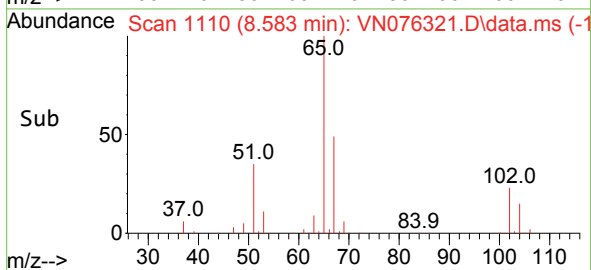
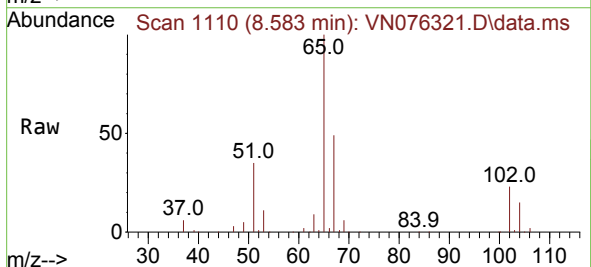


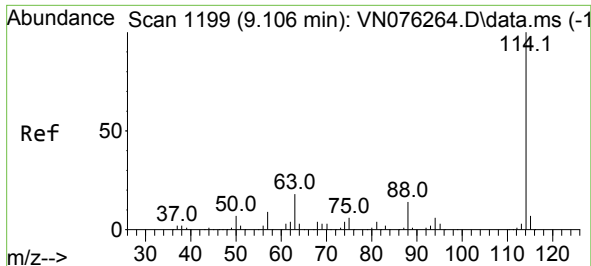
Tgt Ion: 56 Resp: 8945
Ion Ratio Lower Upper
56 100
69 135.6 25.8 38.8#
84 109.1 79.0 118.4



#33
1,2-Dichloroethane-d4
Concen: 45.895 ug/l
RT: 8.583 min Scan# 1110
Delta R.T. 0.001 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

Tgt Ion: 65 Resp: 211487
Ion Ratio Lower Upper
65 100
67 51.9 0.0 104.6

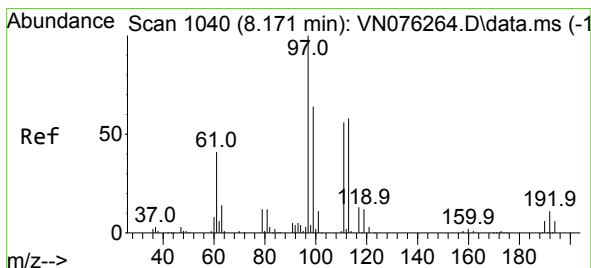
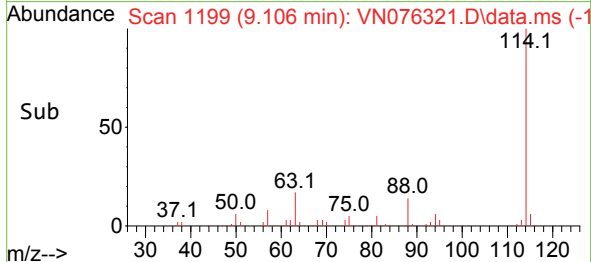
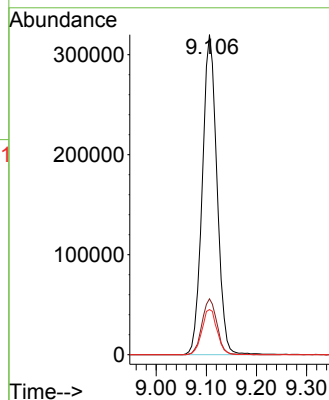
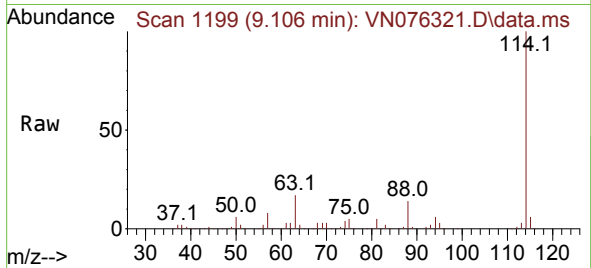




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. 0.000 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

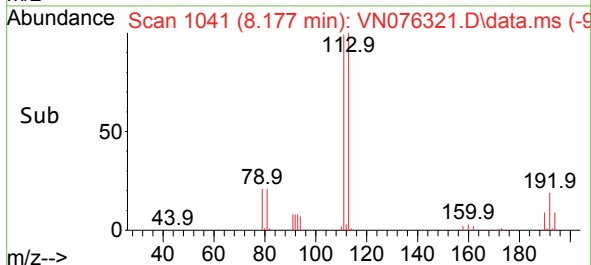
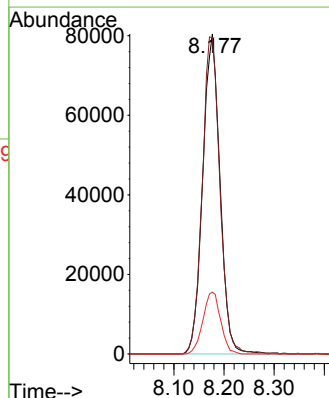
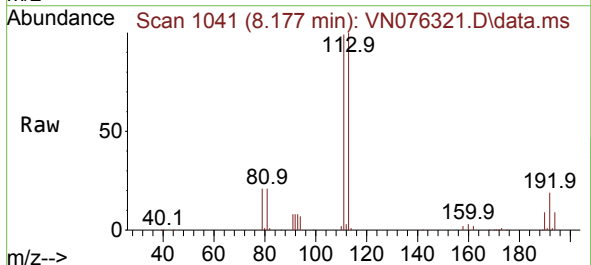
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0118

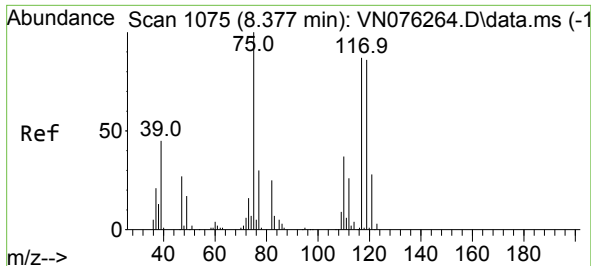
Tgt Ion:114 Resp: 650509
Ion Ratio Lower Upper
114 100
63 17.4 0.0 35.8
88 14.1 0.0 28.0



#35
Dibromofluoromethane
Concen: 47.383 ug/l
RT: 8.177 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

Tgt Ion:113 Resp: 192810
Ion Ratio Lower Upper
113 100
111 100.8 82.7 124.1
192 19.7 15.6 23.4

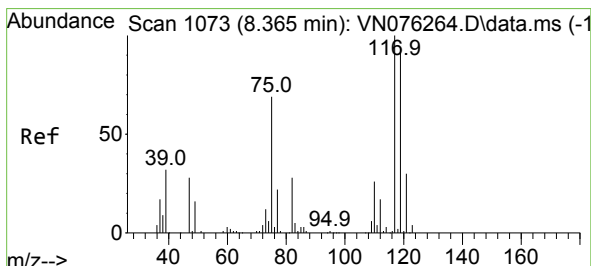
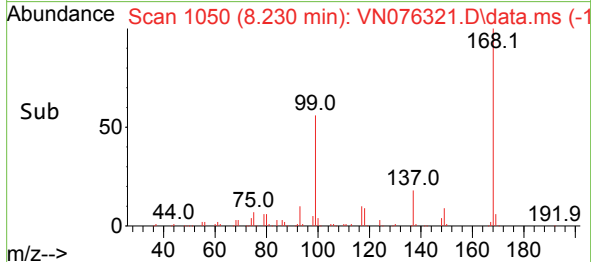
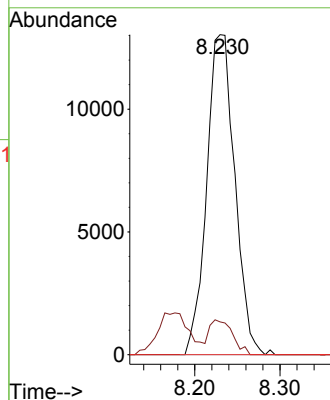
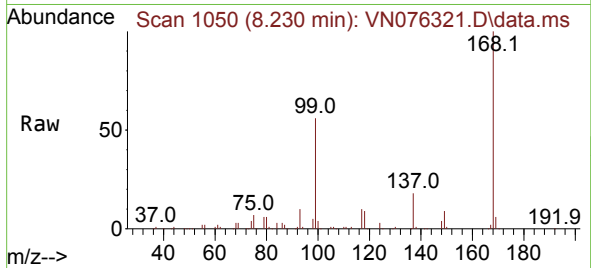




#36
1,1-Dichloropropene
Concen: 5.172 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

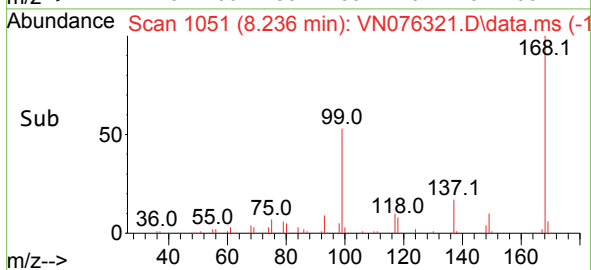
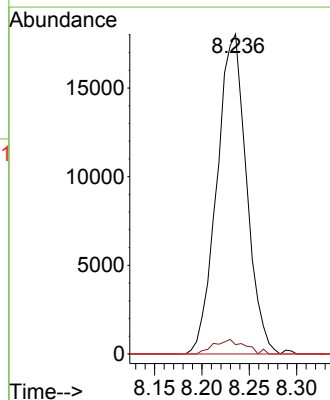
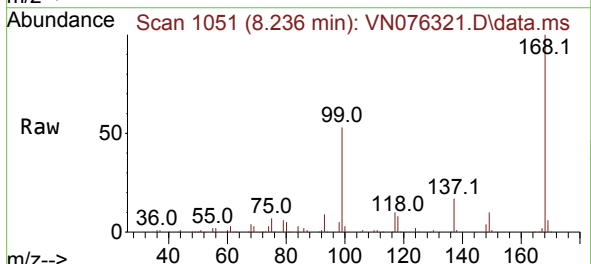
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0118

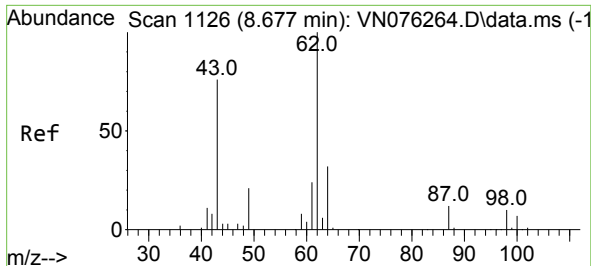
Tgt Ion: 75 Resp: 29908
Ion Ratio Lower Upper
75 100
110 8.8 18.8 56.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 6.085 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. -0.130 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

Tgt Ion: 117 Resp: 39237
Ion Ratio Lower Upper
117 100
119 2.9 75.4 113.0#
121 0.0 24.2 36.2#





#42

1,2-Dichloroethane

Concen: 0.266 ug/l

RT: 8.677 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN076321.D

Acq: 19 Jan 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

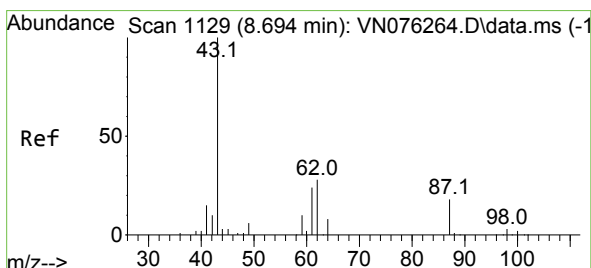
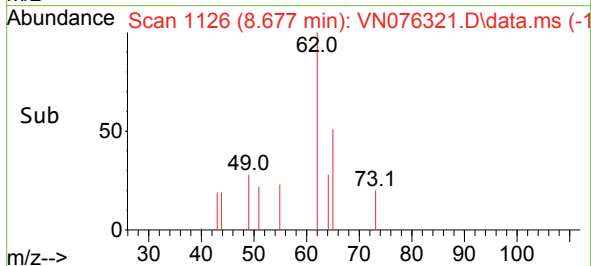
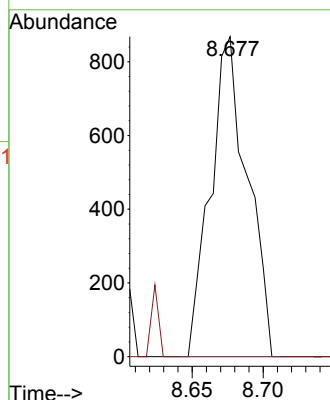
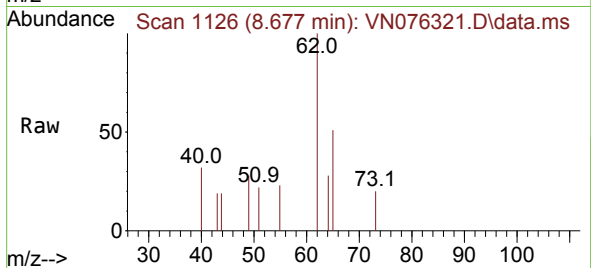
MW-13-0118

Tgt Ion: 62 Resp: 1572

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.4



#43

Isopropyl Acetate

Concen: 17.453 ug/l

RT: 8.783 min Scan# 1144

Delta R.T. 0.089 min

Lab File: VN076321.D

Acq: 19 Jan 2023 14:31

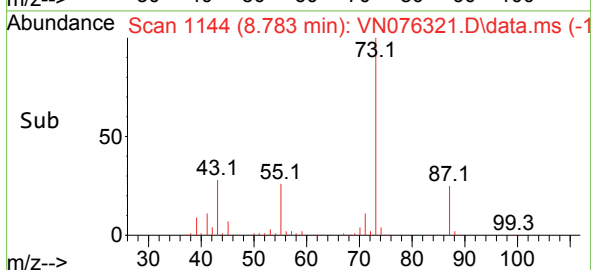
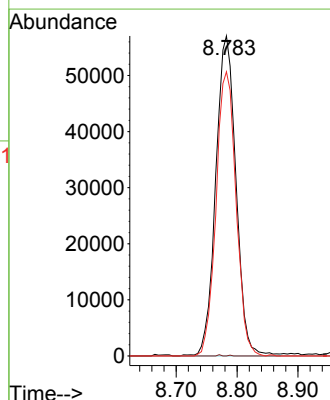
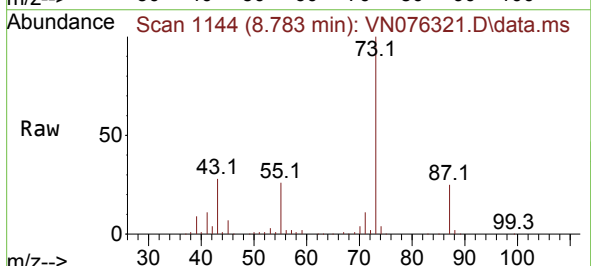
Tgt Ion: 43 Resp: 131684

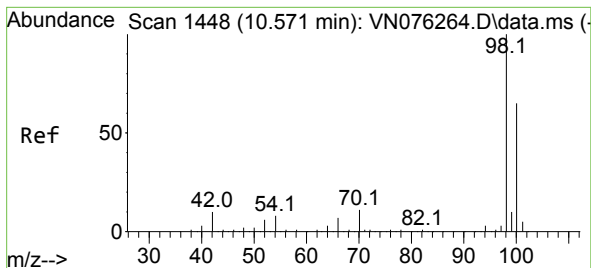
Ion Ratio Lower Upper

43 100

61 0.0 23.5 35.3#

87 87.5 13.8 20.6#

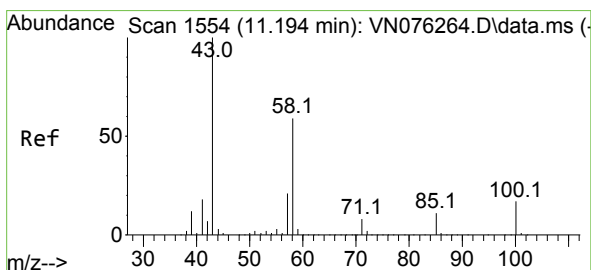
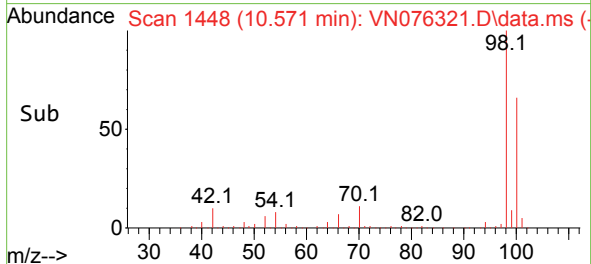
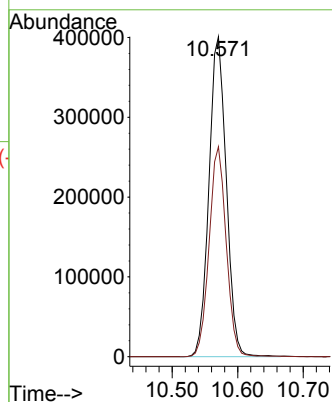
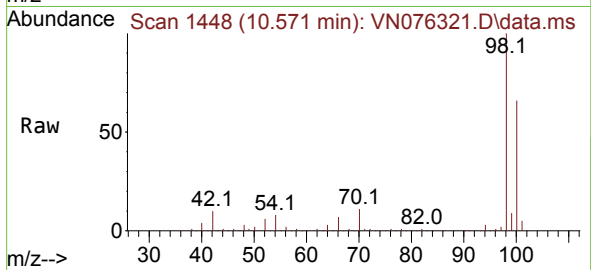




#50
Toluene-d8
Concen: 48.991 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

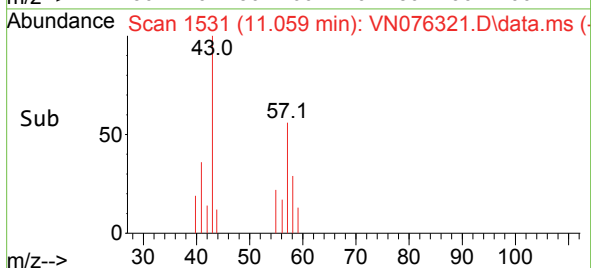
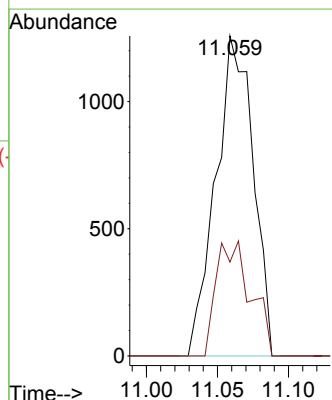
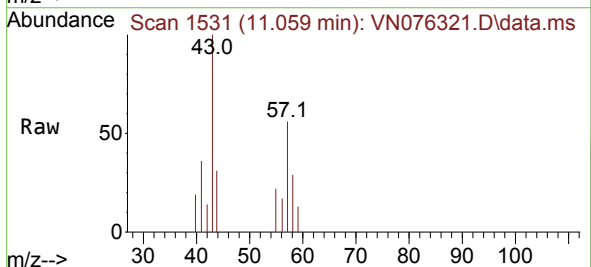
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0118

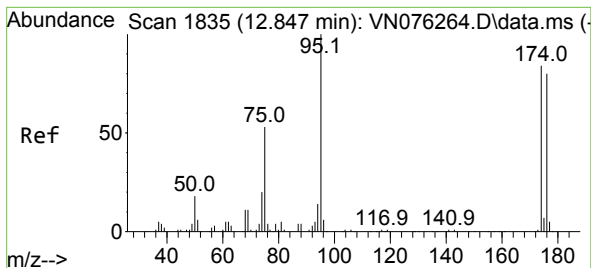
Tgt Ion: 98 Resp: 736235
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.4



#59
2-Hexanone
Concen: 0.717 ug/l
RT: 11.059 min Scan# 1531
Delta R.T. -0.135 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

Tgt Ion: 43 Resp: 2301
Ion Ratio Lower Upper
43 100
58 33.2 30.1 90.3

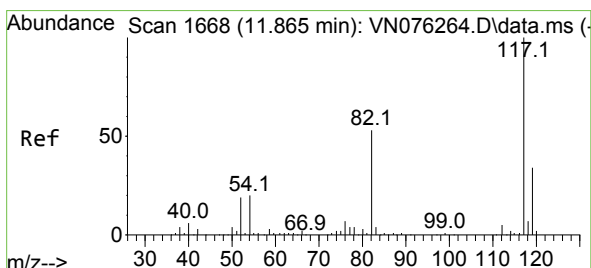
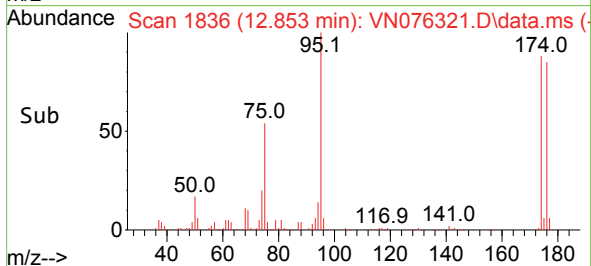
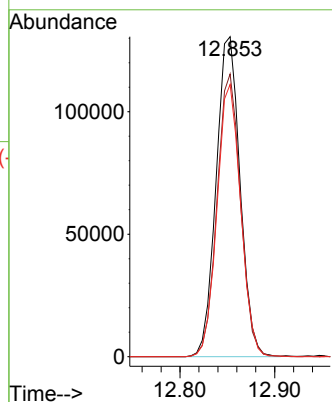
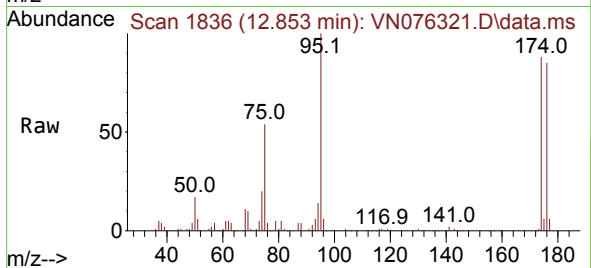




#62
4-Bromofluorobenzene
Concen: 46.782 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

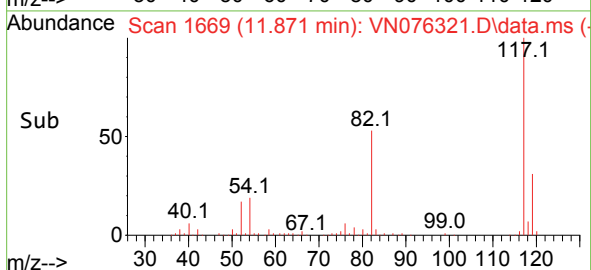
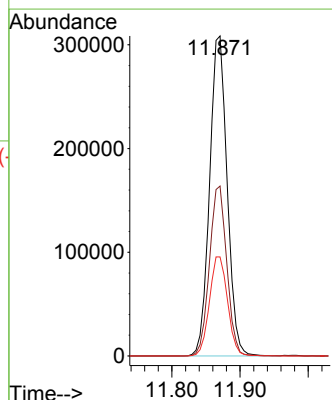
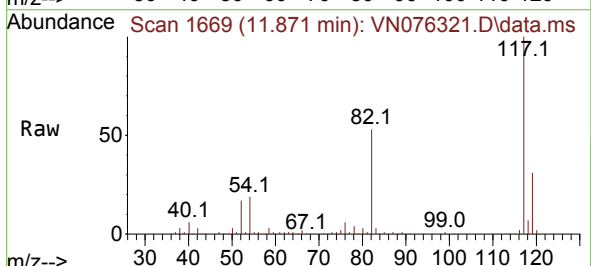
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0118

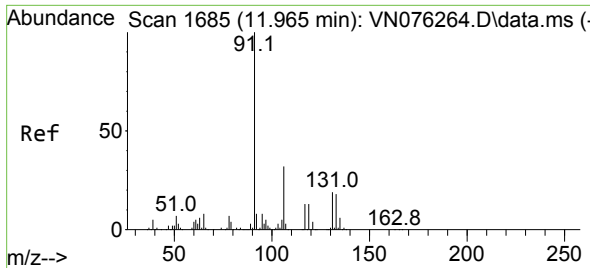
Tgt Ion: 95 Resp: 229510
Ion Ratio Lower Upper
95 100
174 86.6 0.0 174.6
176 83.9 0.0 167.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1669
Delta R.T. 0.006 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

Tgt Ion: 117 Resp: 552596
Ion Ratio Lower Upper
117 100
82 53.1 42.2 63.2
119 30.9 26.9 40.3

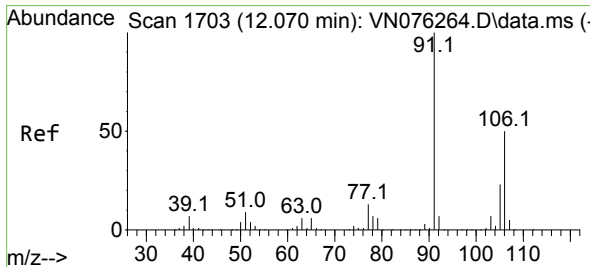
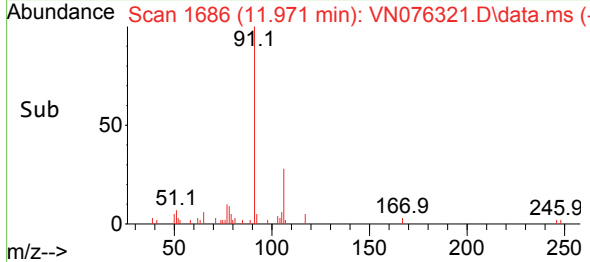
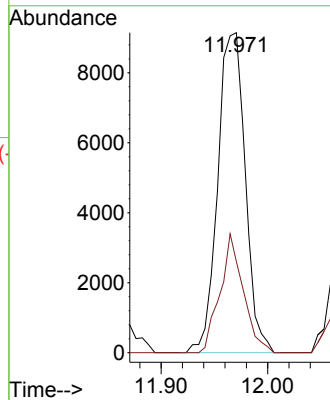
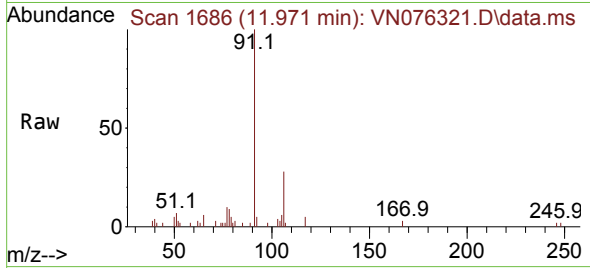




#67
Ethyl Benzene
Concen: 0.821 ug/l
RT: 11.971 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

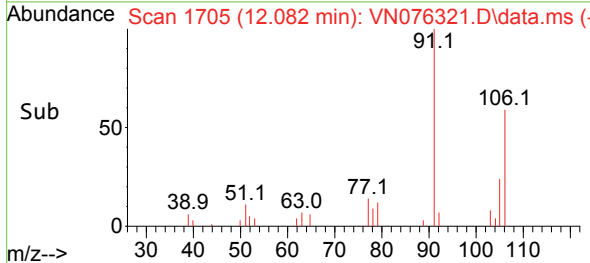
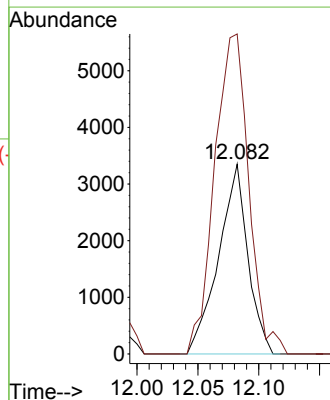
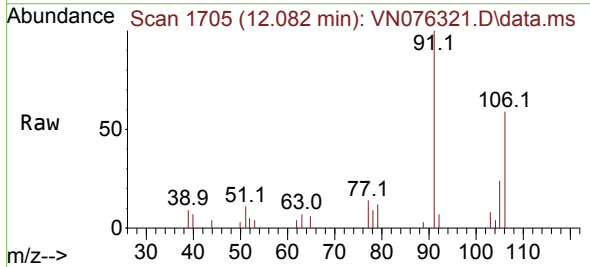
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0118

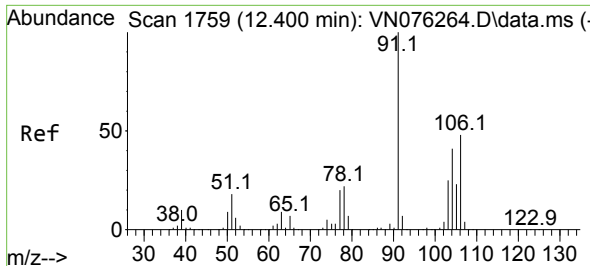
Tgt Ion: 91 Resp: 16406
Ion Ratio Lower Upper
91 100
106 28.5 25.5 38.3



#68
m/p-Xylenes
Concen: 0.701 ug/l
RT: 12.082 min Scan# 1705
Delta R.T. 0.012 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

Tgt Ion: 106 Resp: 5616
Ion Ratio Lower Upper
106 100
91 196.3 157.5 236.3

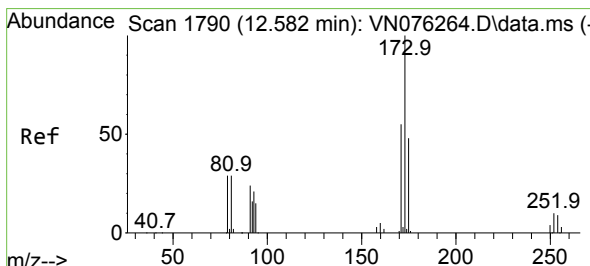
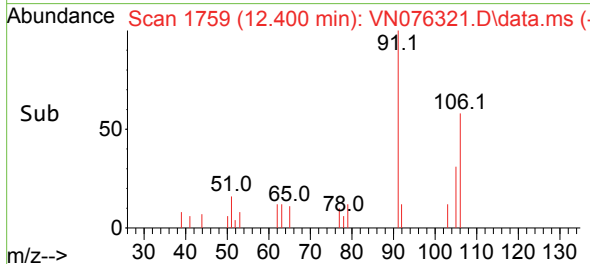
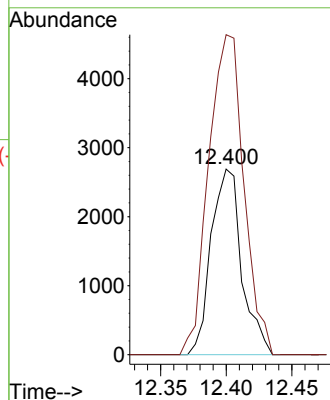
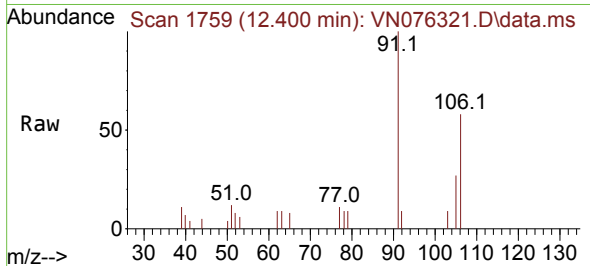




#69
o-Xylene
Concen: 0.553 ug/l
RT: 12.400 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

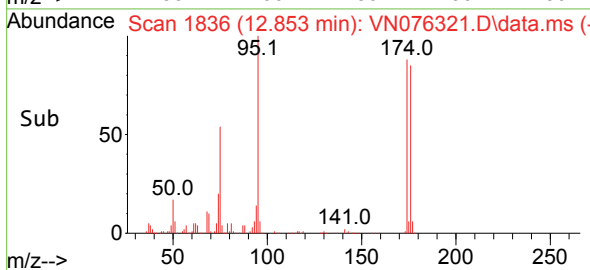
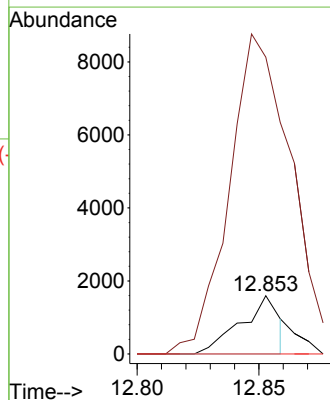
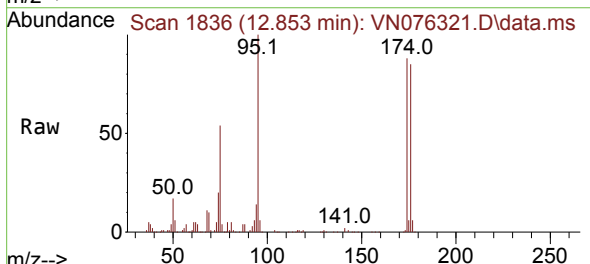
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0118

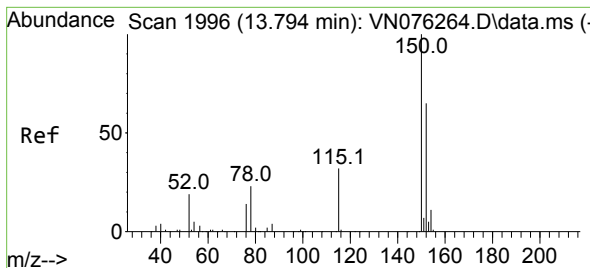
Tgt Ion:106 Resp: 4357
Ion Ratio Lower Upper
106 100
91 199.2 103.2 309.4



#71
Bromoform
Concen: 0.561 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

Tgt Ion:173 Resp: 1760
Ion Ratio Lower Upper
173 100
175 704.8 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: VN076321.D

Acq: 19 Jan 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

MW-13-0118

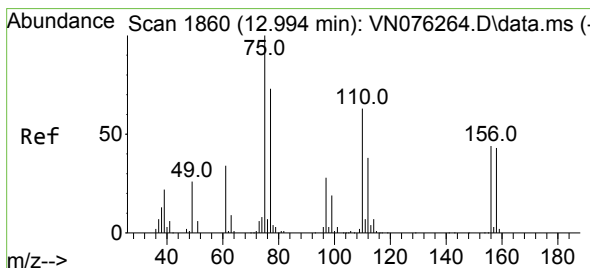
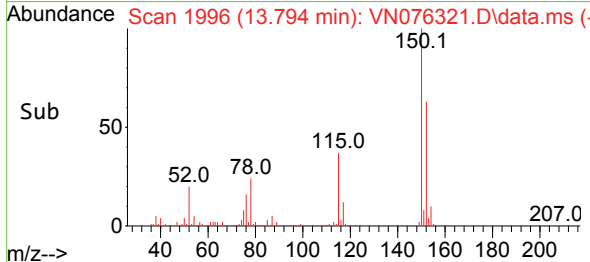
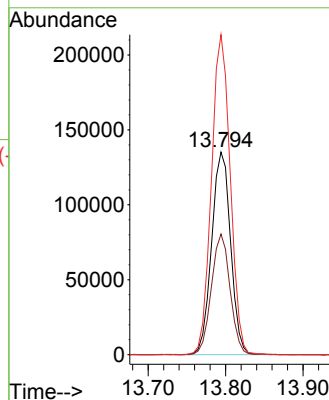
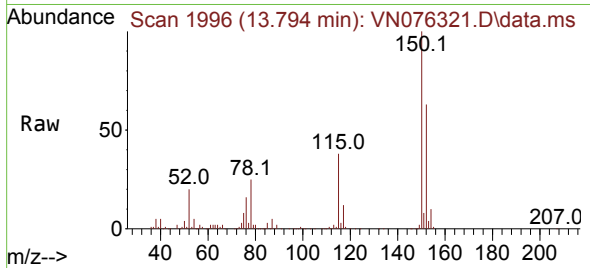
Tgt Ion:152 Resp: 229935

Ion Ratio Lower Upper

152 100

115 58.6 29.6 88.9

150 156.5 0.0 351.4



#76

1,2,3-Trichloropropane

Concen: 28.571 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076321.D

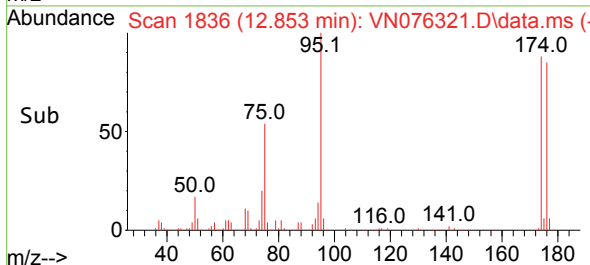
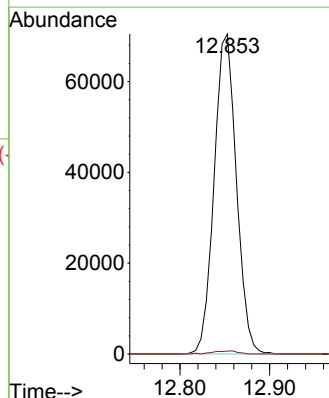
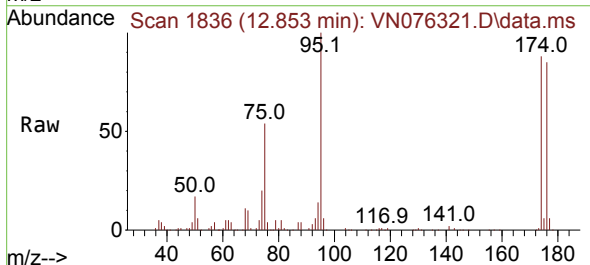
Acq: 19 Jan 2023 14:31

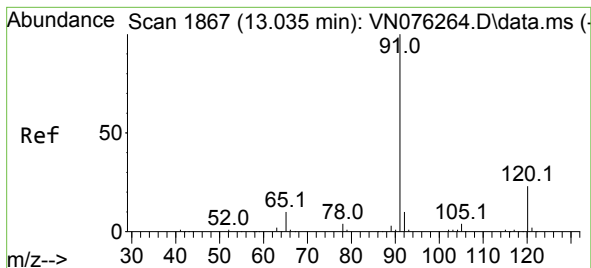
Tgt Ion: 75 Resp: 121381

Ion Ratio Lower Upper

75 100

77 1.1 75.2 225.6#





#78

n-propylbenzene

Concen: 0.287 ug/l

RT: 13.041 min Scan# 1868

Delta R.T. 0.006 min

Lab File: VN076321.D

Acq: 19 Jan 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

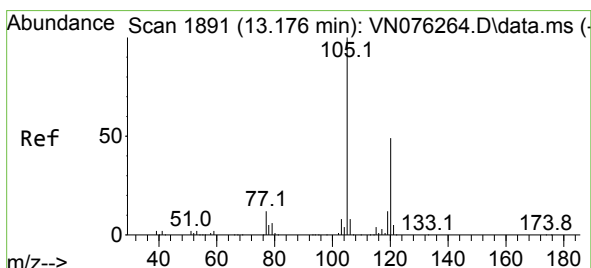
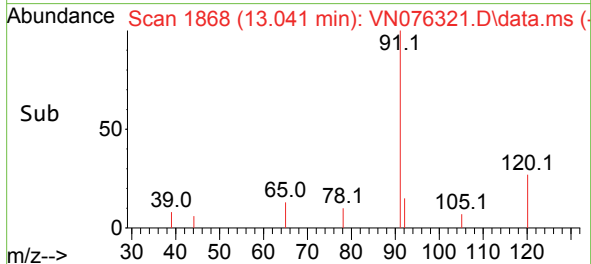
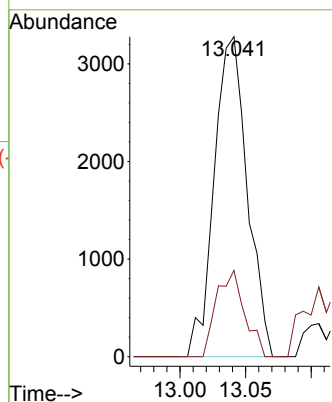
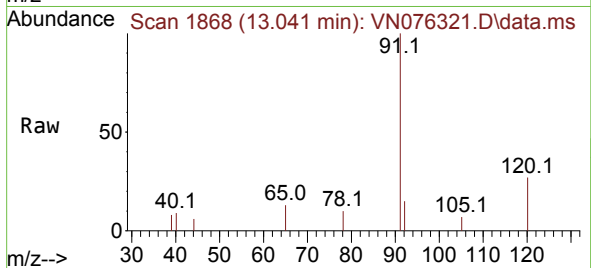
MW-13-0118

Tgt Ion: 91 Resp: 5755

Ion Ratio Lower Upper

91 100

120 22.9 11.9 35.5



#80

1,3,5-Trimethylbenzene

Concen: 0.513 ug/l

RT: 13.135 min Scan# 1884

Delta R.T. -0.041 min

Lab File: VN076321.D

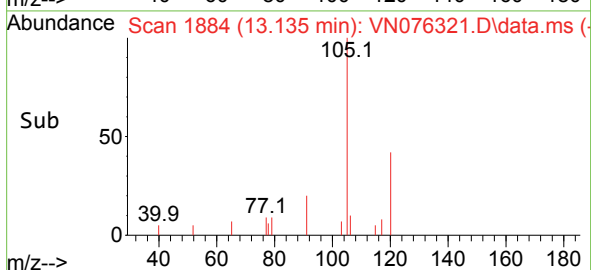
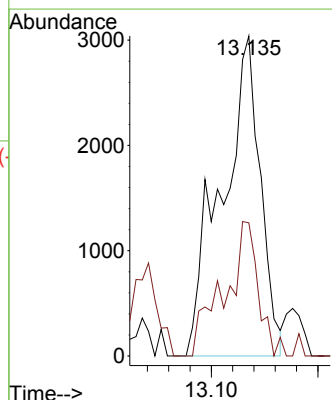
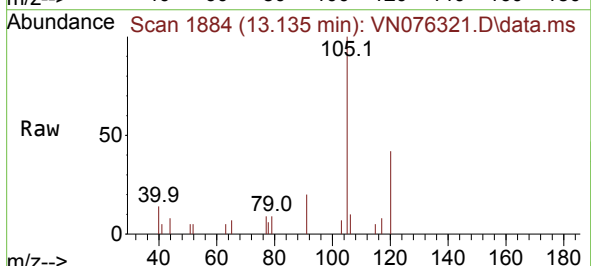
Acq: 19 Jan 2023 14:31

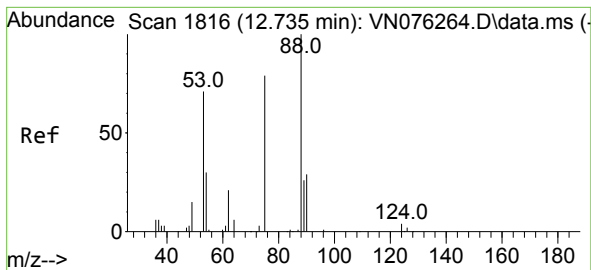
Tgt Ion: 105 Resp: 7647

Ion Ratio Lower Upper

105 100

120 25.7 25.0 75.0

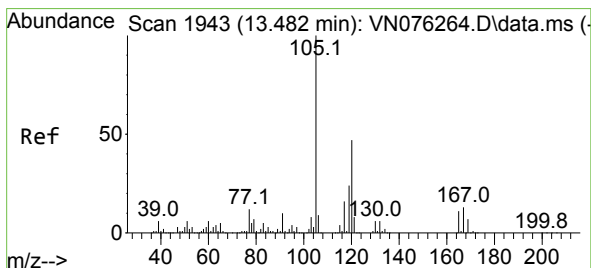
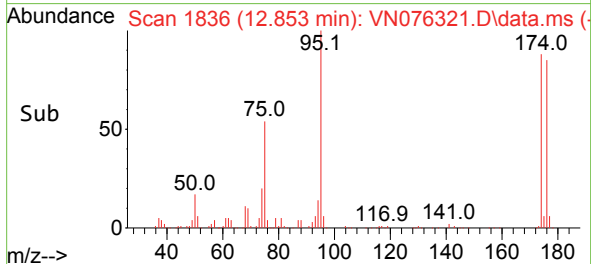
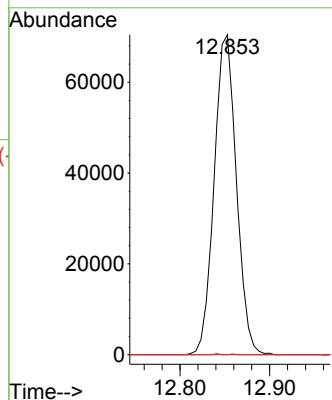
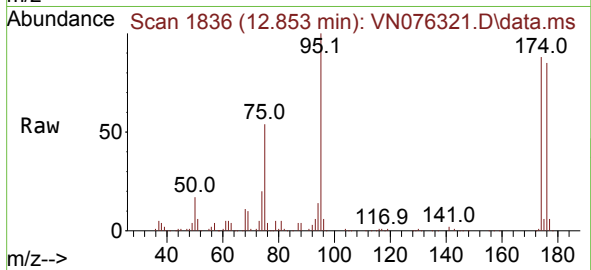




#81
trans-1,4-Dichloro-2-butene
Concen: 87.832 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

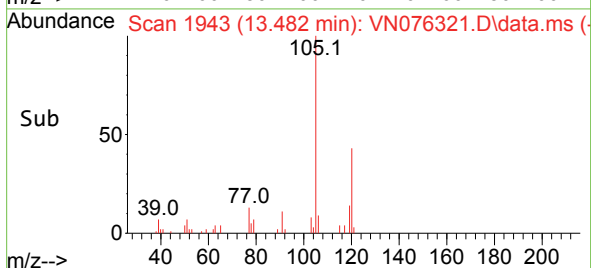
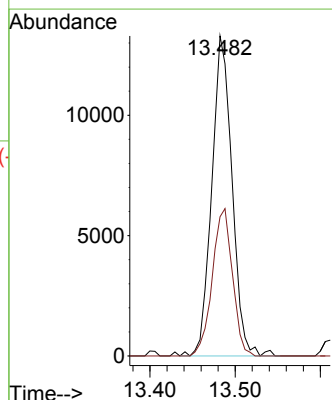
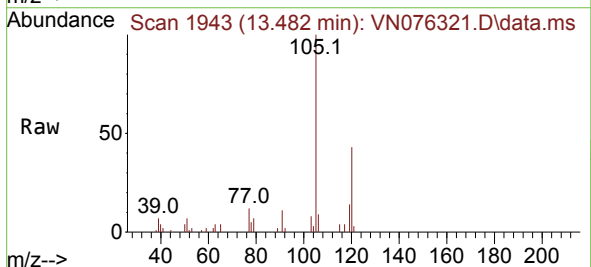
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0118

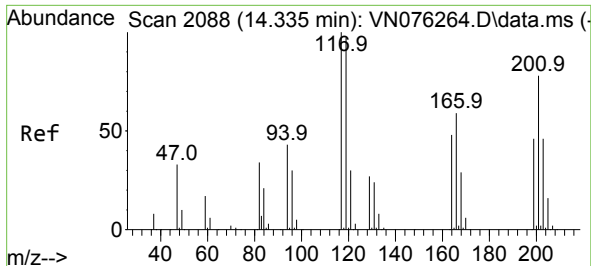
Tgt Ion: 75 Resp: 121381
Ion Ratio Lower Upper
75 100
53 0.0 75.8 113.8#
89 0.0 37.0 55.6#



#84
1,2,4-Trimethylbenzene
Concen: 1.473 ug/l
RT: 13.482 min Scan# 1943
Delta R.T. 0.000 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

Tgt Ion: 105 Resp: 22003
Ion Ratio Lower Upper
105 100
120 45.7 22.9 68.5

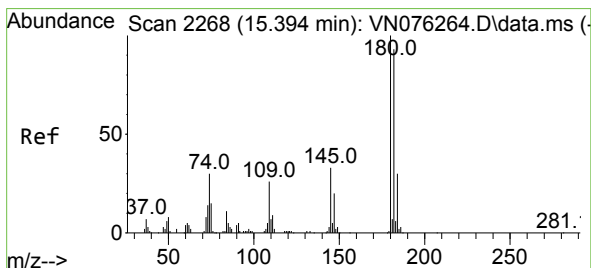
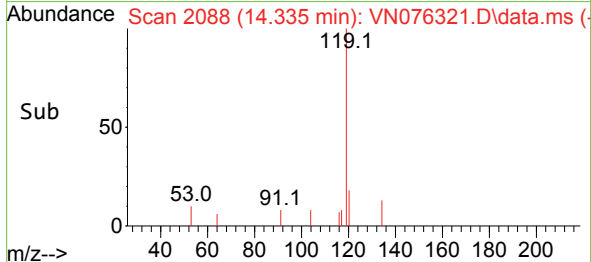
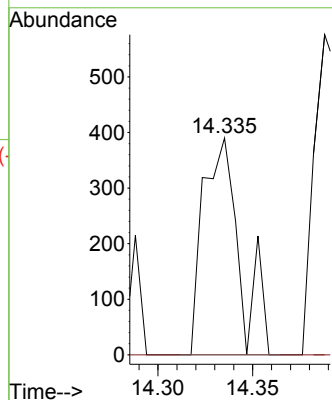
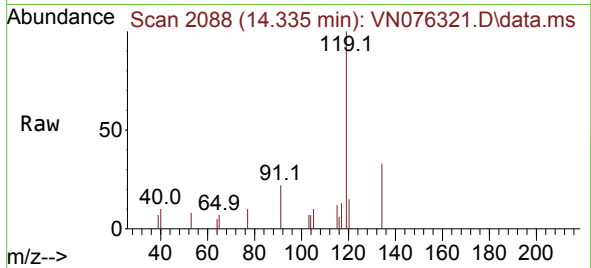




#90
Hexachloroethane
Concen: 0.200 ug/l
RT: 14.335 min Scan# 2088
Delta R.T. 0.000 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

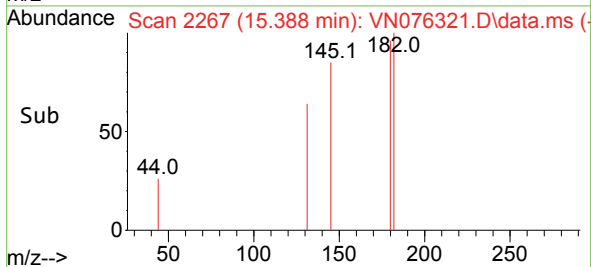
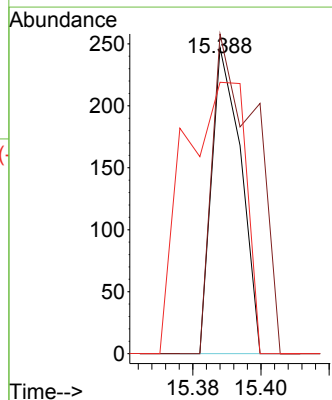
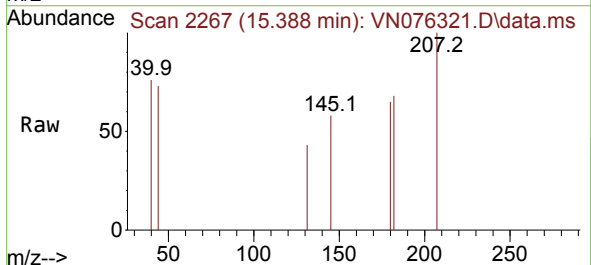
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0118

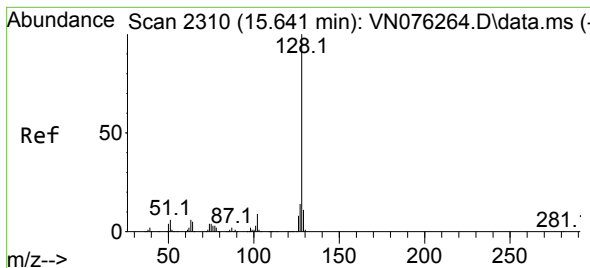
Tgt Ion:117 Resp: 523
Ion Ratio Lower Upper
117 100
201 0.0 37.3 111.9#



#93
1,2,4-Trichlorobenzene
Concen: 1.340 ug/l
RT: 15.388 min Scan# 2267
Delta R.T. -0.006 min
Lab File: VN076321.D
Acq: 19 Jan 2023 14:31

Tgt Ion:180 Resp: 146
Ion Ratio Lower Upper
180 100
182 155.5 47.0 141.2#
145 188.4 15.2 45.5#





#95

Naphthalene

Concen: 3.574 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN076321.D

Acq: 19 Jan 2023 14:31

Instrument :

MSVOA_N

ClientSampleId :

MW-13-0118

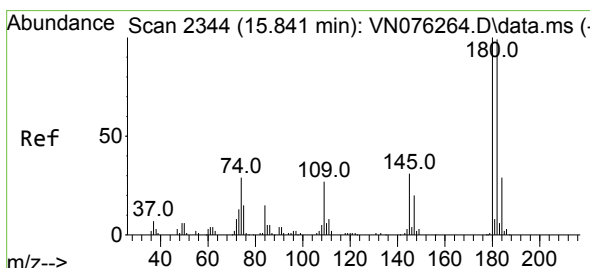
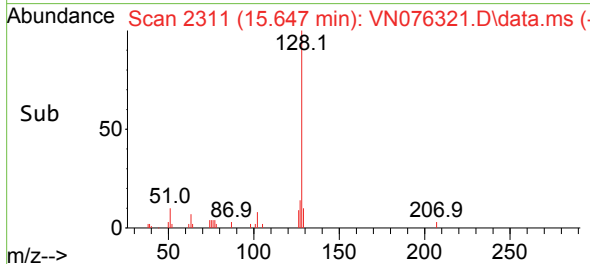
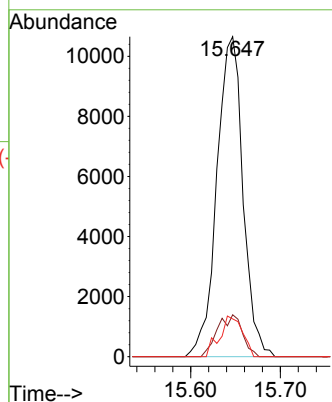
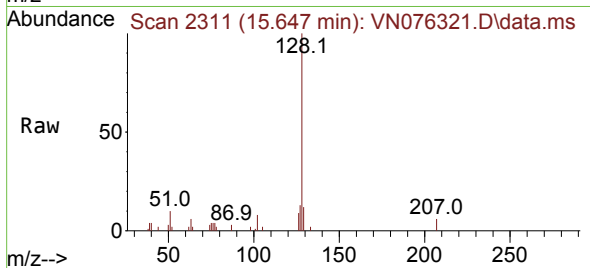
Tgt Ion:128 Resp: 21526

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

129 11.0 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 1.168 ug/l

RT: 15.847 min Scan# 2345

Delta R.T. 0.006 min

Lab File: VN076321.D

Acq: 19 Jan 2023 14:31

Tgt Ion:180 Resp: 55

Ion Ratio Lower Upper

180 100

182 298.2 47.5 142.5#

145 0.0 15.9 47.6#

