

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020323\
 Data File : VN076530.D
 Acq On : 03 Feb 2023 14:11
 Operator : JC\MD
 Sample : 01415-03 40X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13-0202

Quant Time: Feb 03 22:17:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

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

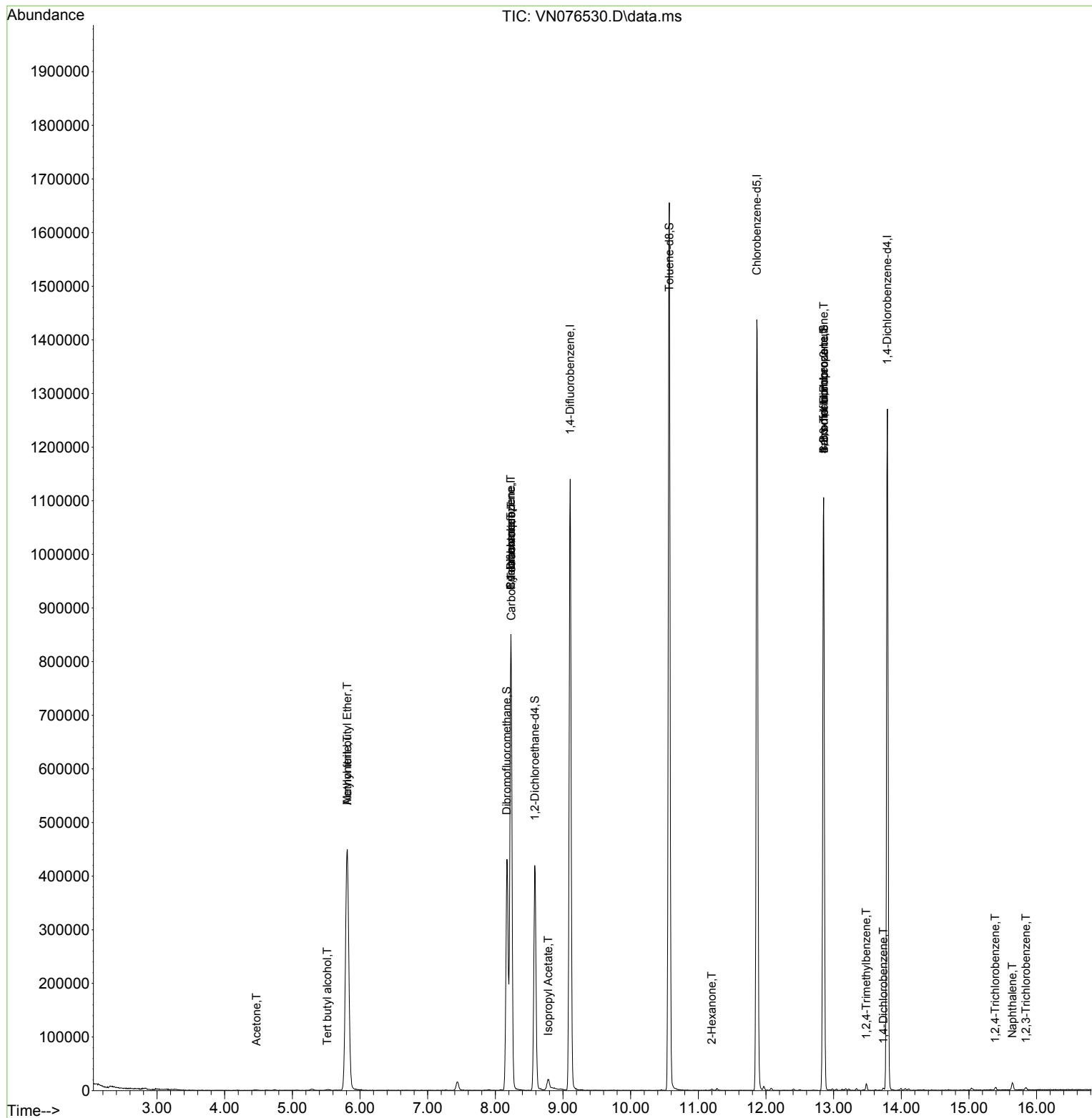
Internal Standards						
1) Pentafluorobenzene	8.230	168	633775	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	1037717	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	905819	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	357228	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	355744	50.131	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.260%	
35) Dibromofluoromethane	8.171	113	312344	48.117	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 96.240%	
50) Toluene-d8	10.571	98	1190384	49.655	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.300%	
62) 4-Bromofluorobenzene	12.853	95	394946	50.465	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 100.920%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	1210	1.275	ug/l #	72
15) Acrylonitrile	5.812	53	8845	3.275	ug/l #	26
16) Acetone	4.471	43	1494	0.583	ug/l #	41
19) Methyl tert-butyl Ether	5.812	73	814386	41.209	ug/l	98
20) Methylene Chloride	5.277	84	799	Below Cal	#	76
31) Cyclohexane	8.230	56	12131	1.113	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	48377	5.245	ug/l #	49
38) Carbon Tetrachloride	8.236	117	64762	6.296	ug/l #	17
43) Isopropyl Acetate	8.783	43	10744	0.893	ug/l #	52
59) 2-Hexanone	11.200	43	1834	0.358	ug/l	82
71) Bromoform	12.853	173	1876	0.365	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	199924	30.348	ug/l #	1
77) Bromobenzene	12.971	156	722	Below Cal		84
81) trans-1,4-Dichloro-2-b...	12.853	75	199924	93.117	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.482	105	7970	0.343	ug/l	97
88) 1,4-Dichlorobenzene	13.735	146	1978	0.261	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	2153	1.640	ug/l	87
95) Naphthalene	15.641	128	14226	2.577	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	2037	1.487	ug/l	91

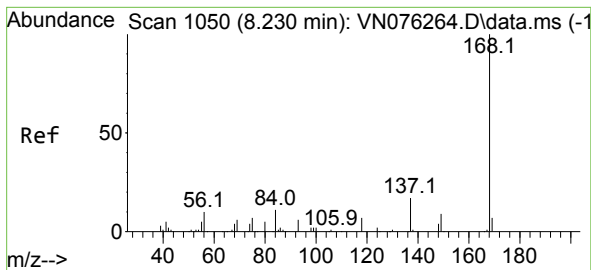
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076530.D

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Instrument :

MSVOA_N

ClientSampleId :

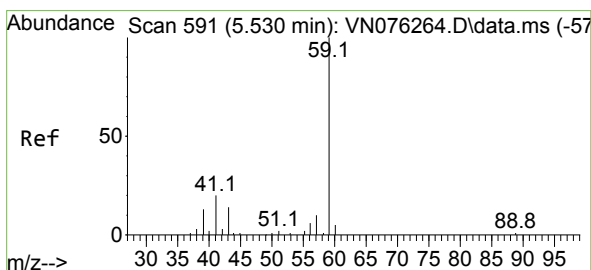
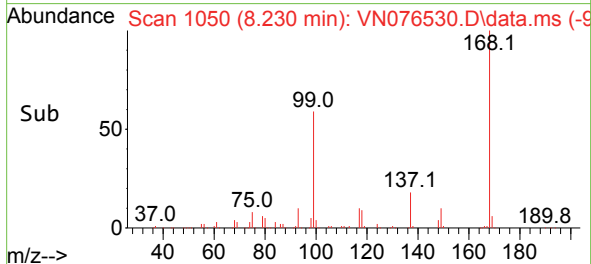
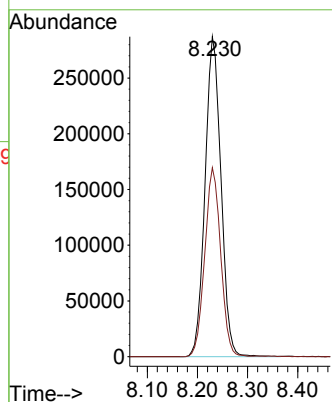
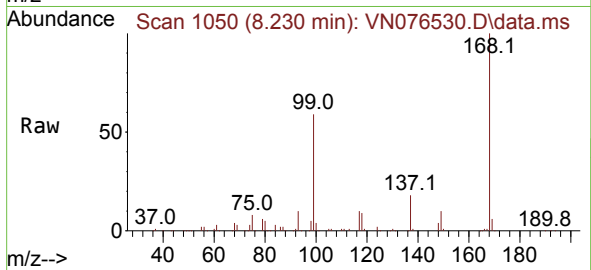
MW-13-0202

Tgt Ion:168 Resp: 633775

Ion Ratio Lower Upper

168 100

99 59.1 41.6 62.4



#11

Tert butyl alcohol

Concen: 1.275 ug/l

RT: 5.518 min Scan# 589

Delta R.T. -0.012 min

Lab File: VN076530.D

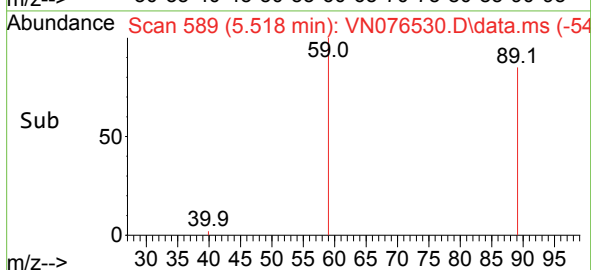
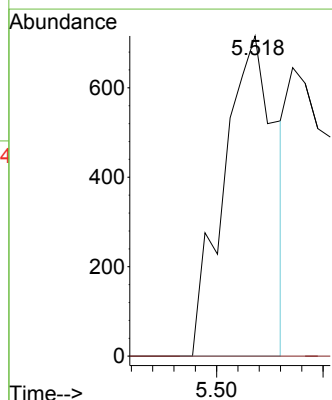
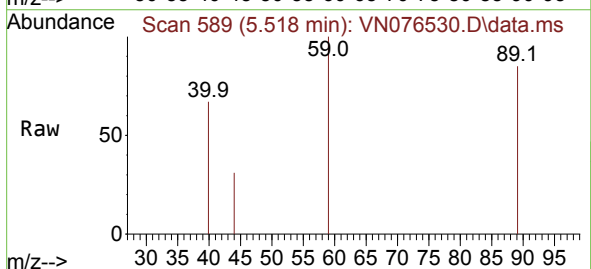
Acq: 03 Feb 2023 14:11

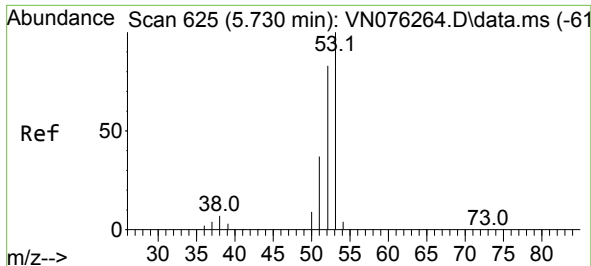
Tgt Ion: 59 Resp: 1210

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#

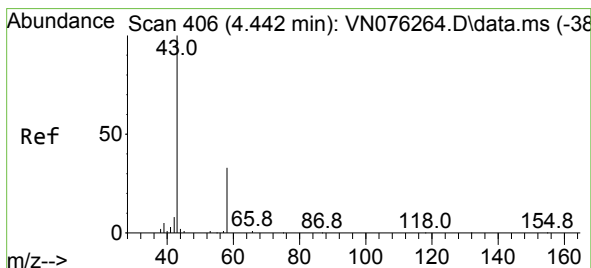
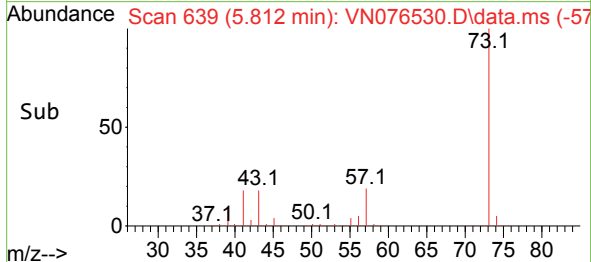
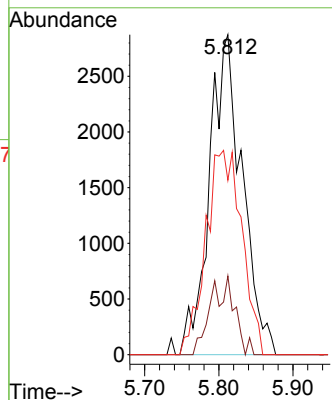
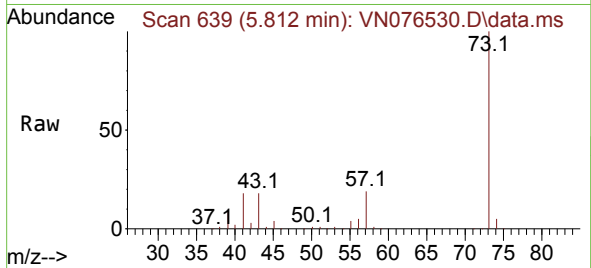




#15
Acrylonitrile
Concen: 3.275 ug/l
RT: 5.812 min Scan# 611
Delta R.T. 0.082 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

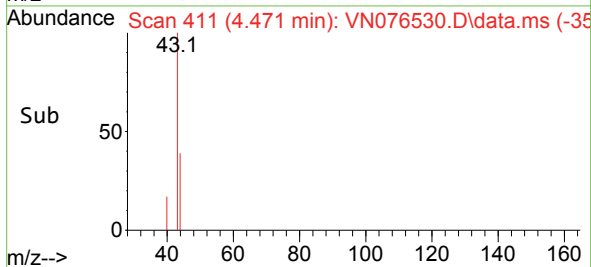
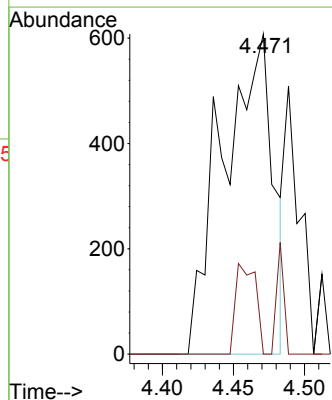
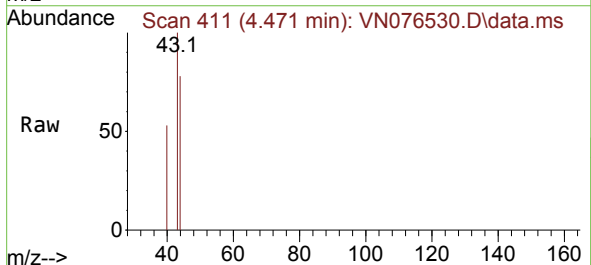
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0202

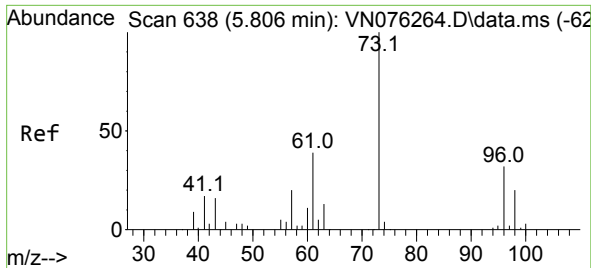
Tgt Ion: 53 Resp: 8845
Ion Ratio Lower Upper
53 100
52 8.5 64.7 97.1#
51 70.2 29.2 43.8#



#16
Acetone
Concen: 0.583 ug/l
RT: 4.471 min Scan# 411
Delta R.T. 0.029 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

Tgt Ion: 43 Resp: 1494
Ion Ratio Lower Upper
43 100
58 0.0 26.7 40.1#

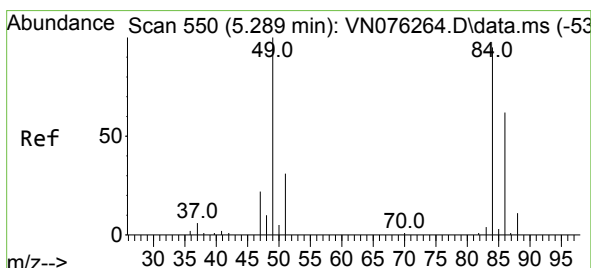
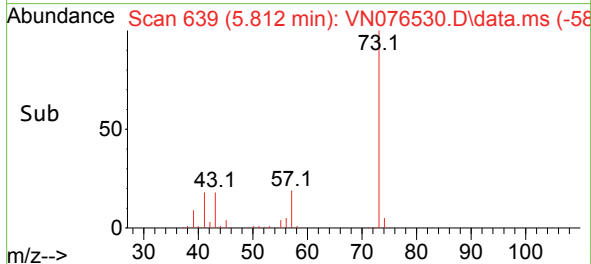
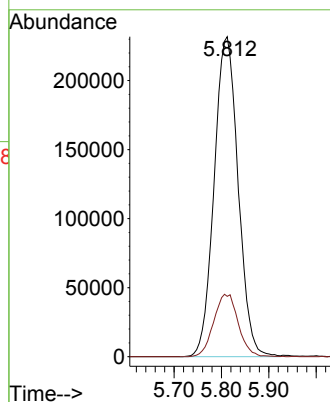
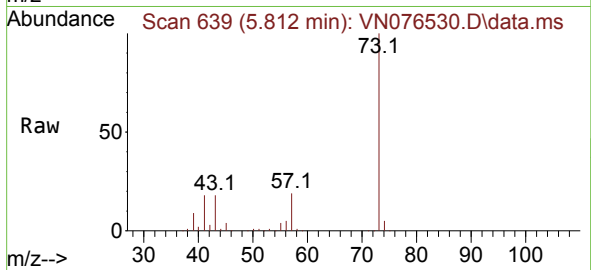




#19
Methyl tert-butyl Ether
Concen: 41.209 ug/l
RT: 5.812 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

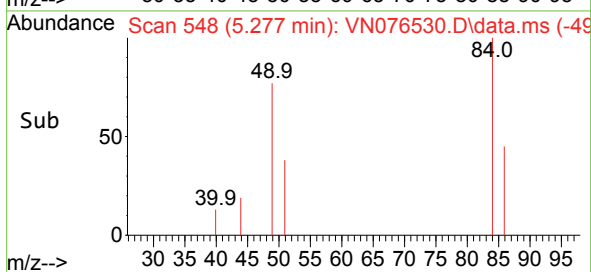
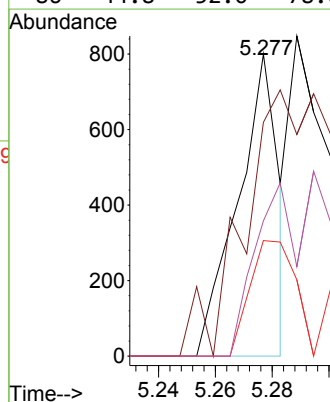
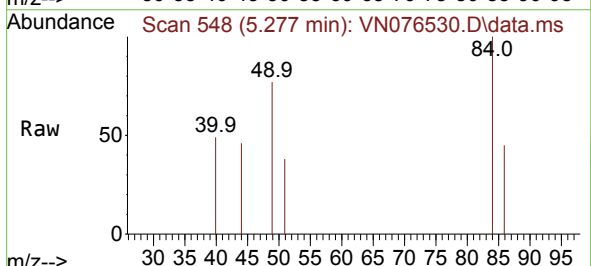
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0202

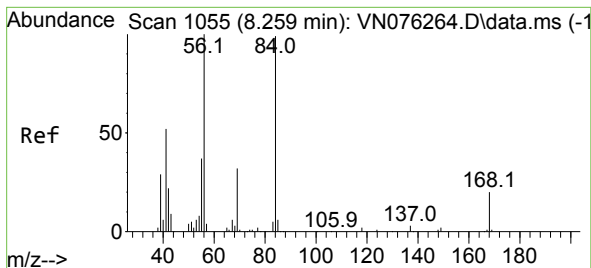
Tgt Ion: 73 Resp: 814386
Ion Ratio Lower Upper
73 100
57 18.8 15.9 23.9



#20
Methylene Chloride
Concen: Below Cal
RT: 5.277 min Scan# 548
Delta R.T. -0.012 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

Tgt Ion: 84 Resp: 799
Ion Ratio Lower Upper
84 100
49 77.4 84.5 126.7#
51 38.3 26.0 39.0
86 44.8 52.0 78.0#





#31

Cyclohexane

Concen: 1.113 ug/l

RT: 8.230 min Scan# 1105

Delta R.T. -0.029 min

Lab File: VN076530.D

Acq: 03 Feb 2023 14:11

Instrument :

MSVOA_N

ClientSampleId :

MW-13-0202

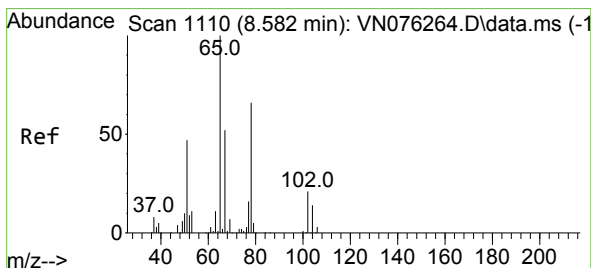
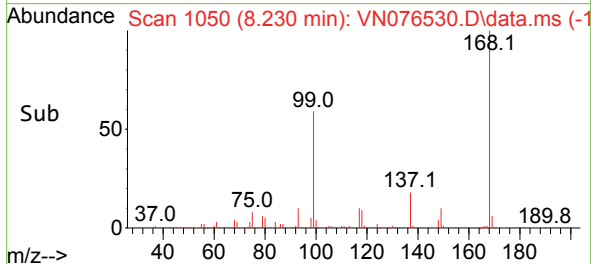
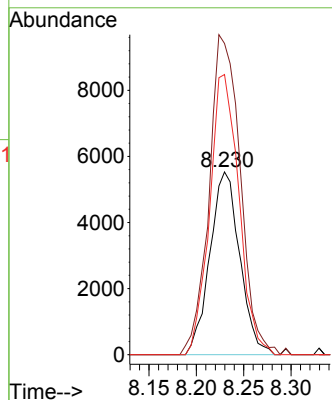
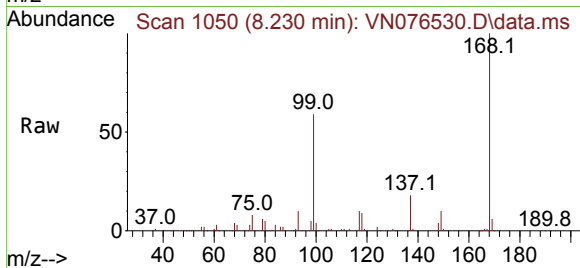
Tgt Ion: 56 Resp: 12131

Ion Ratio Lower Upper

56 100

69 170.3 25.8 38.8#

84 153.3 79.0 118.4#



#33

1,2-Dichloroethane-d4

Concen: 50.131 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. 0.001 min

Lab File: VN076530.D

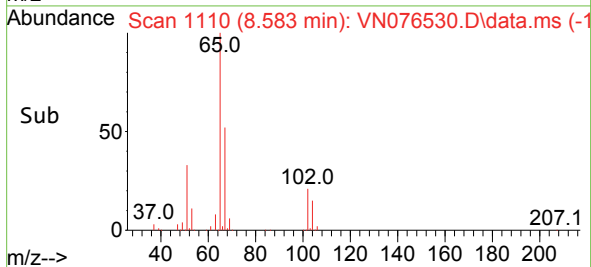
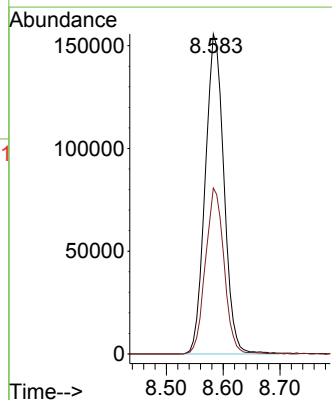
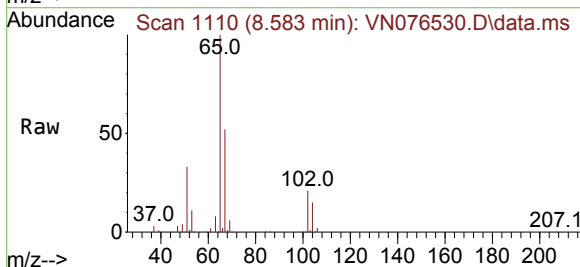
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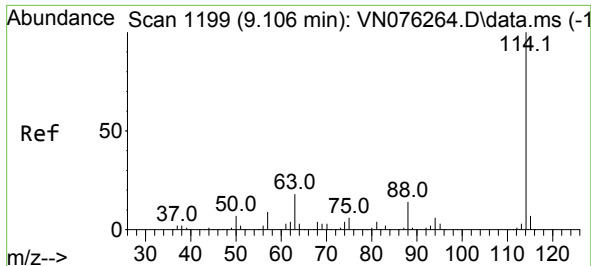
Tgt Ion: 65 Resp: 355744

Ion Ratio Lower Upper

65 100

67 51.5 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: VN076530.D

Acq: 03 Feb 2023 14:11

Instrument :

MSVOA_N

ClientSampleId :

MW-13-0202

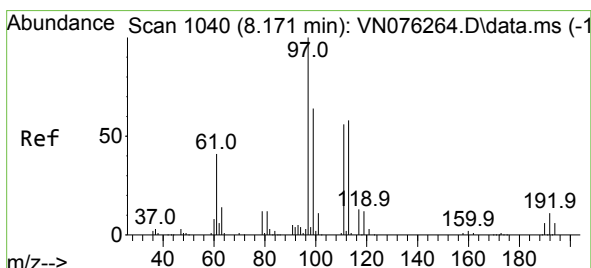
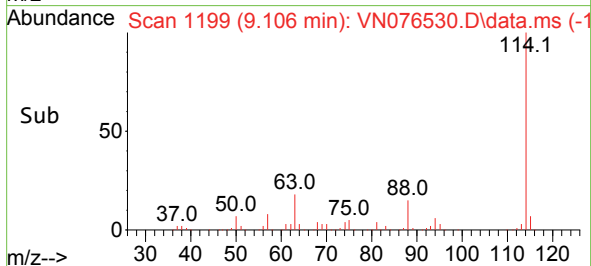
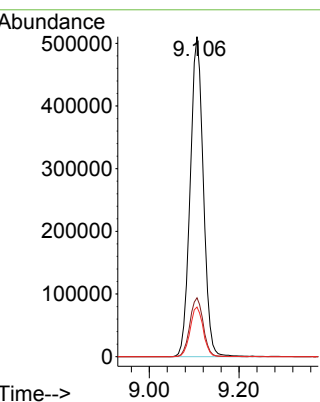
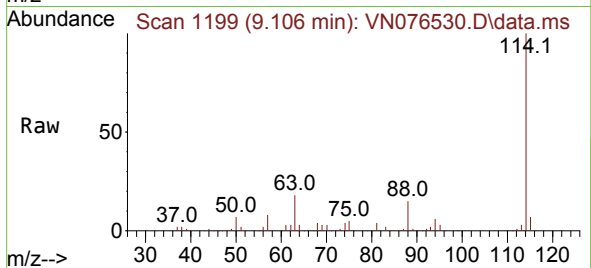
Tgt Ion:114 Resp: 1037717

Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.8

88 15.5 0.0 28.0



#35

Dibromofluoromethane

Concen: 48.117 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN076530.D

Acq: 03 Feb 2023 14:11

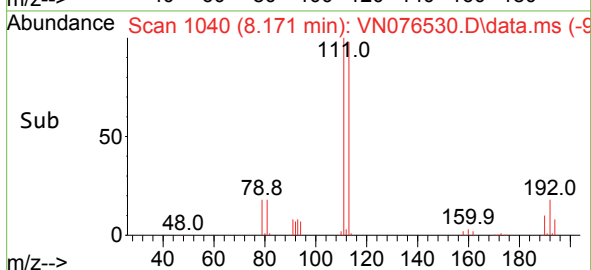
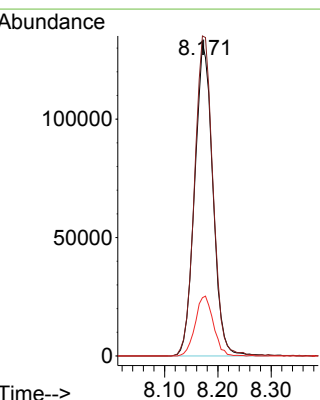
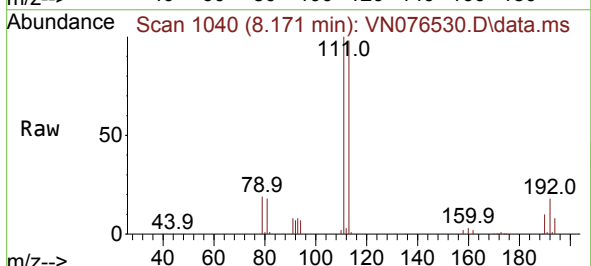
Tgt Ion:113 Resp: 312344

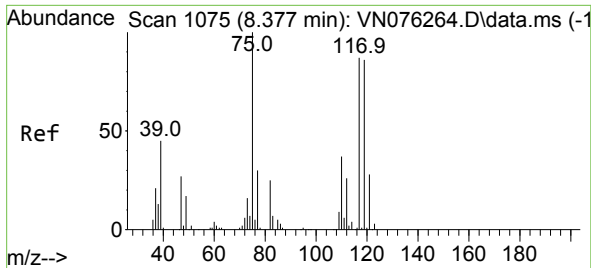
Ion Ratio Lower Upper

113 100

111 103.7 82.7 124.1

192 19.1 15.6 23.4

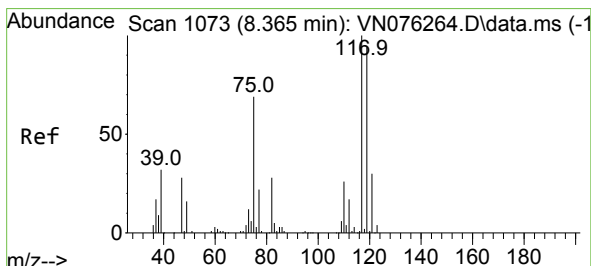
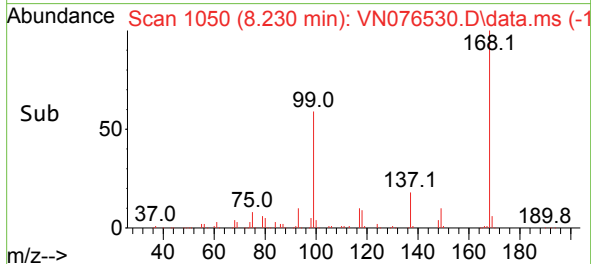
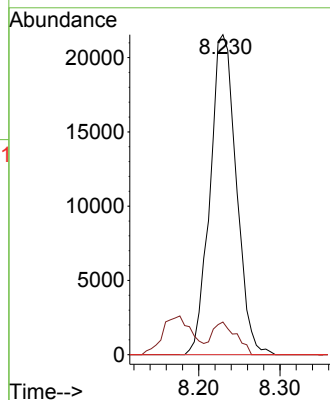
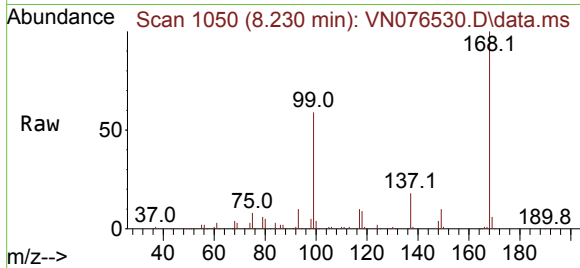




#36
1,1-Dichloropropene
Concen: 5.245 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

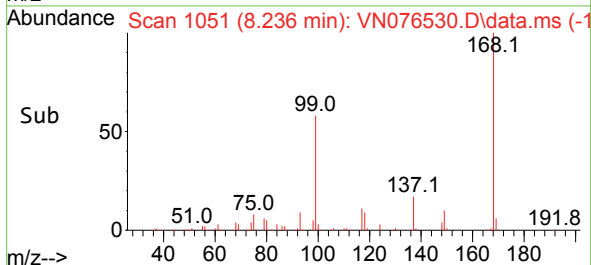
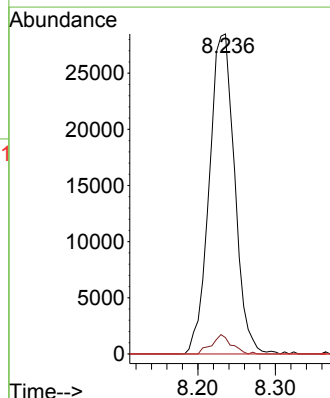
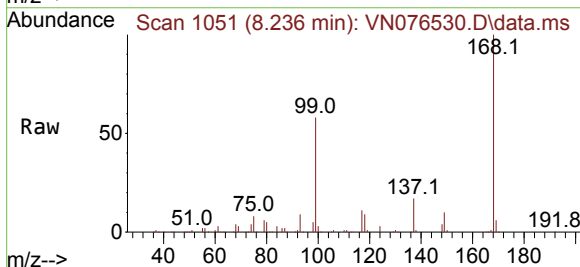
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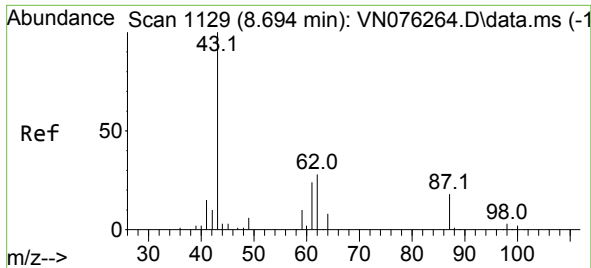
Tgt Ion: 75 Resp: 48377
Ion Ratio Lower Upper
75 100
110 9.3 18.8 56.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 6.296 ug/l
RT: 8.236 min Scan# 1051
Delta R.T. -0.129 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

Tgt Ion: 117 Resp: 64762
Ion Ratio Lower Upper
117 100
119 5.1 75.4 113.0#
121 0.0 24.2 36.2#

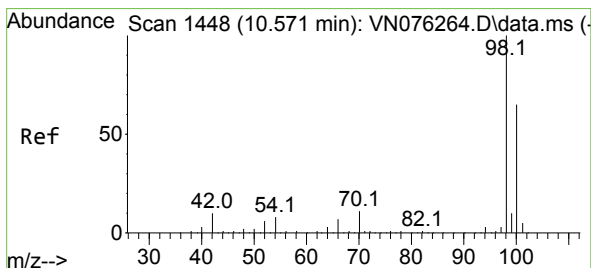
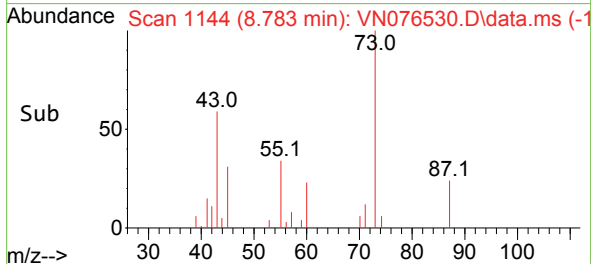
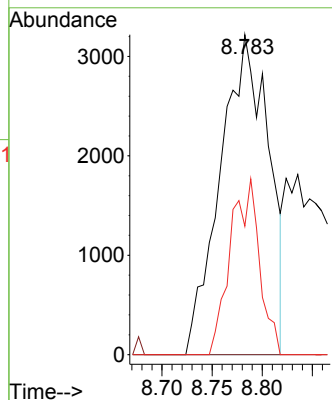
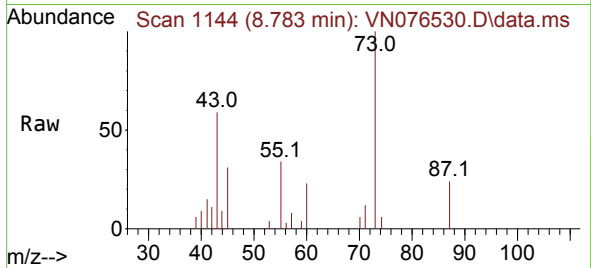




#43
Isopropyl Acetate
Concen: 0.893 ug/l
RT: 8.783 min Scan# 1144
Delta R.T. 0.089 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

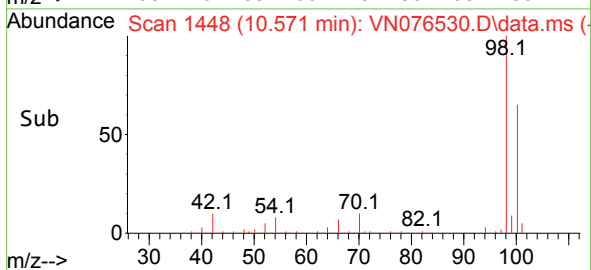
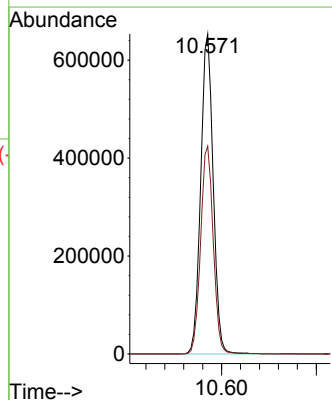
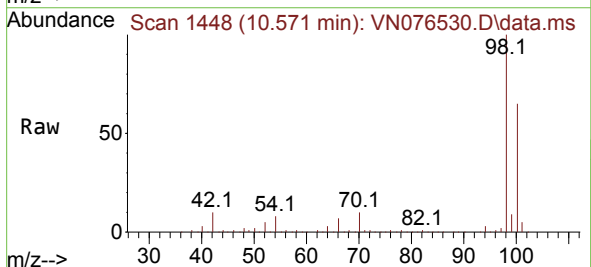
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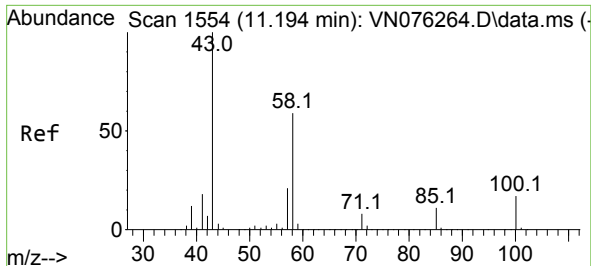
Tgt Ion: 43 Resp: 10744
Ion Ratio Lower Upper
43 100
61 0.0 23.5 35.3#
87 33.1 13.8 20.6#



#50
Toluene-d8
Concen: 49.655 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

Tgt Ion: 98 Resp: 1190384
Ion Ratio Lower Upper
98 100
100 65.7 52.2 78.4

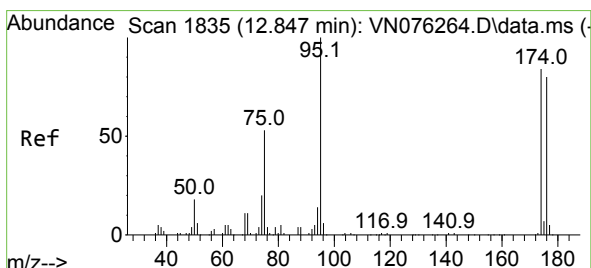
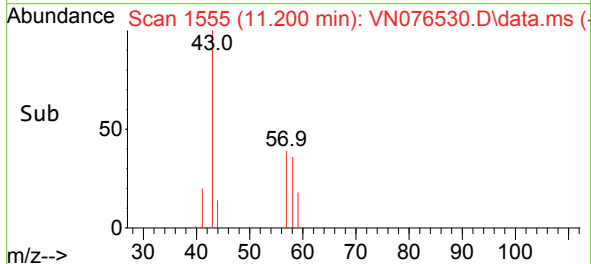
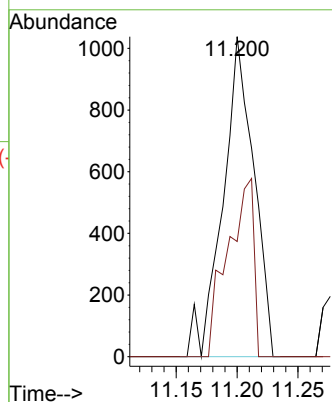
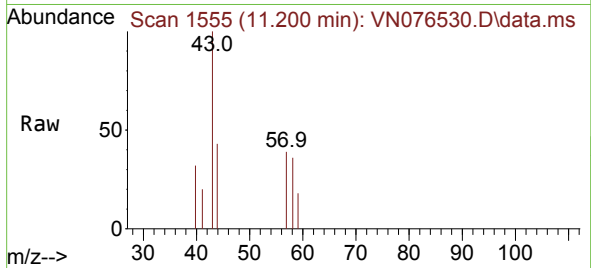




#59
2-Hexanone
Concen: 0.358 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

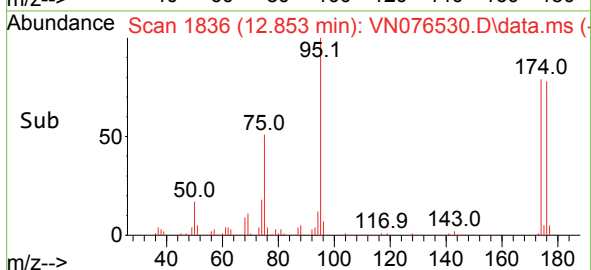
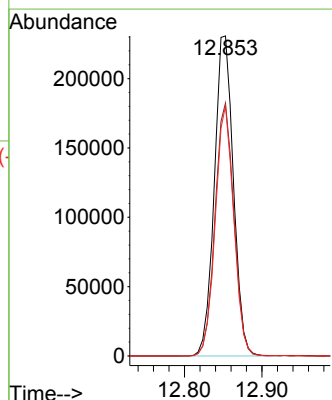
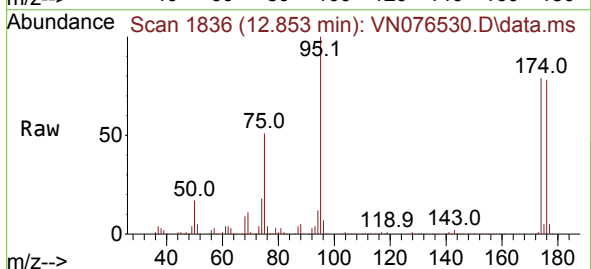
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0202

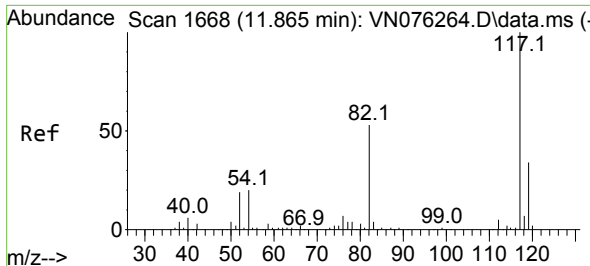
Tgt Ion: 43 Resp: 1834
Ion Ratio Lower Upper
43 100
58 46.8 30.1 90.3



#62
4-Bromofluorobenzene
Concen: 50.465 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.006 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

Tgt Ion: 95 Resp: 394946
Ion Ratio Lower Upper
95 100
174 78.4 0.0 174.6
176 75.3 0.0 167.8

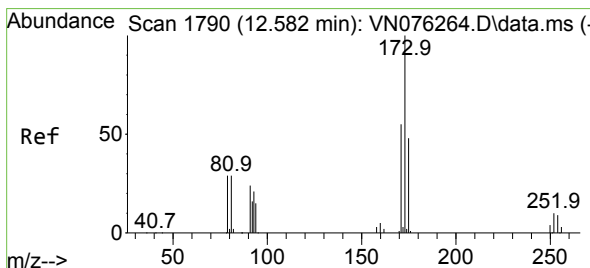
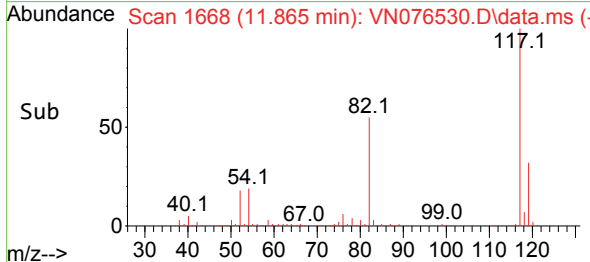
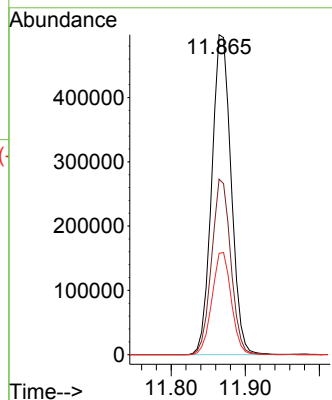
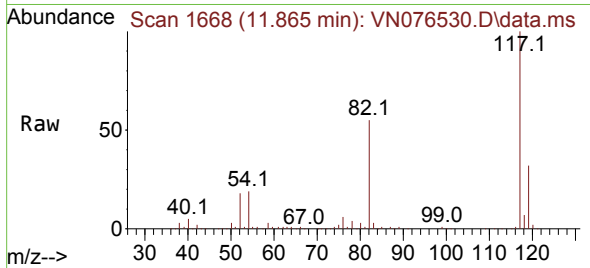




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

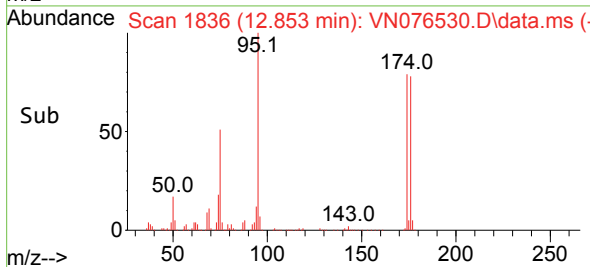
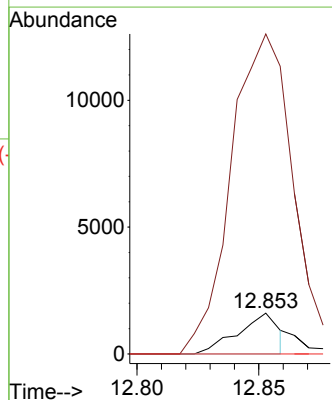
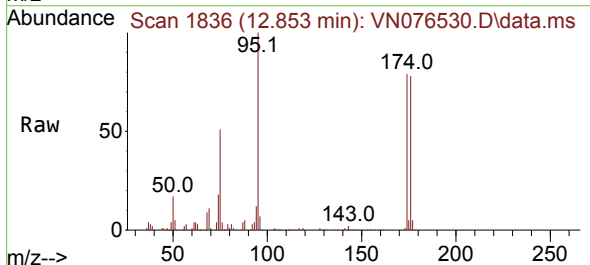
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0202

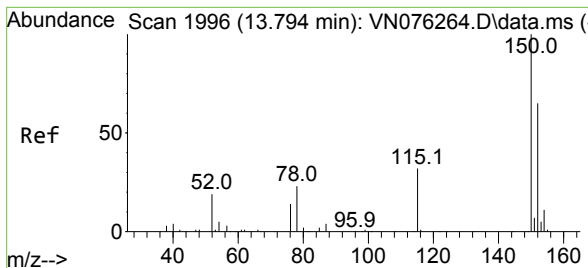
Tgt Ion:117 Resp: 905819
Ion Ratio Lower Upper
117 100
82 54.8 42.2 63.2
119 31.7 26.9 40.3



#71
Bromoform
Concen: 0.365 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

Tgt Ion:173 Resp: 1876
Ion Ratio Lower Upper
173 100
175 981.9 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: VN076530.D

Acq: 03 Feb 2023 14:11

Instrument :

MSVOA_N

ClientSampleId :

MW-13-0202

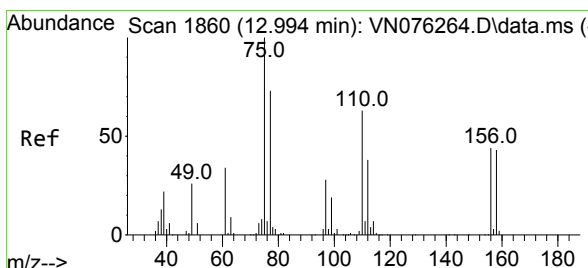
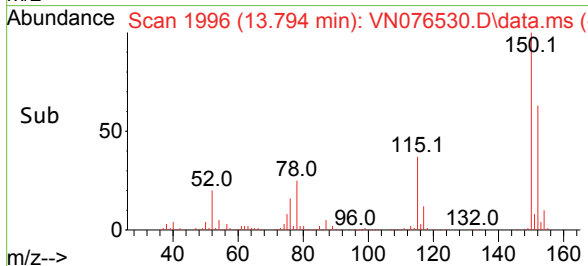
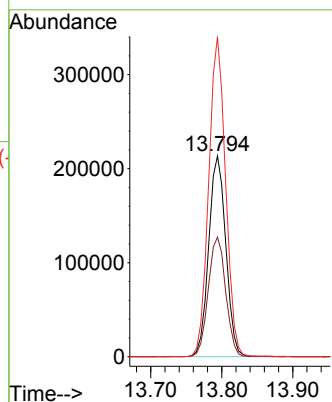
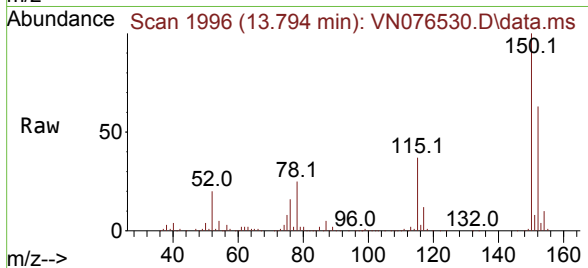
Tgt Ion:152 Resp: 357228

Ion Ratio Lower Upper

152 100

115 60.8 29.6 88.9

150 157.3 0.0 351.4



#76

1,2,3-Trichloropropane

Concen: 30.348 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. -0.141 min

Lab File: VN076530.D

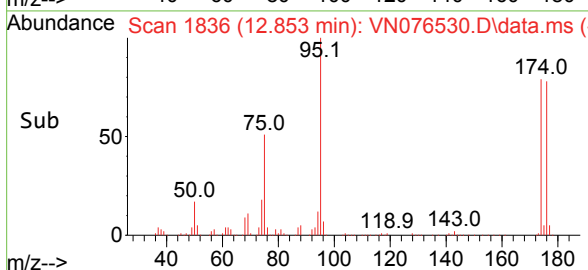
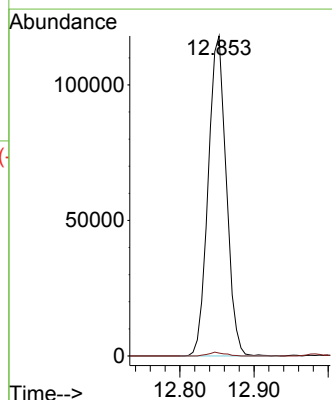
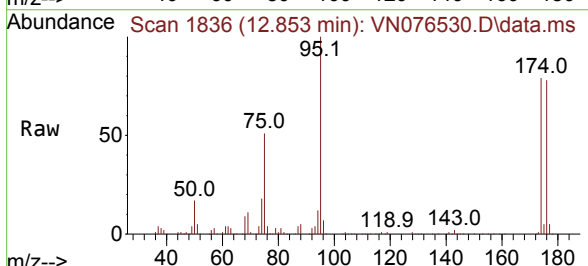
Acq: 03 Feb 2023 14:11

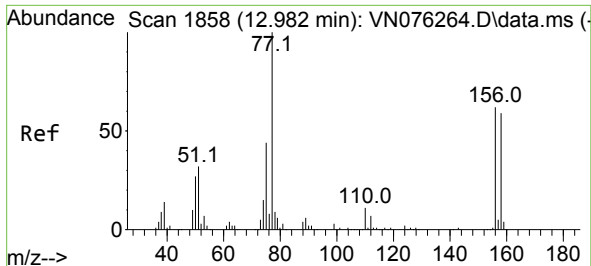
Tgt Ion: 75 Resp: 199924

Ion Ratio Lower Upper

75 100

77 1.1 75.2 225.6#

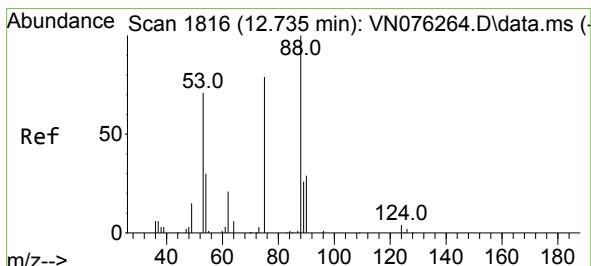
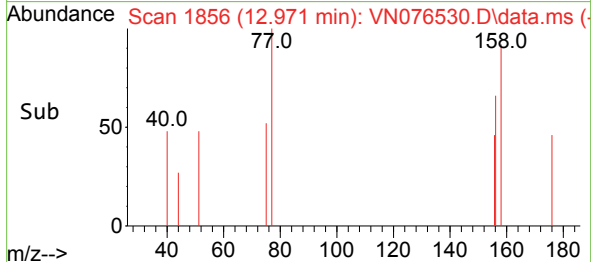
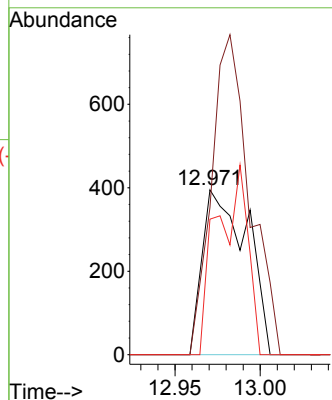
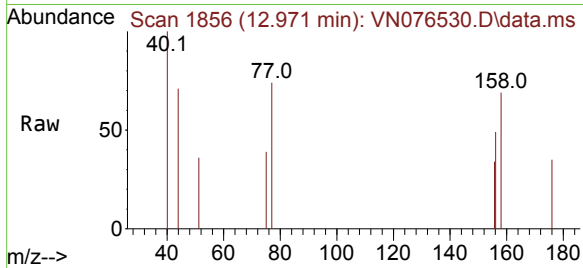




#77
Bromobenzene
Concen: Below Cal
RT: 12.971 min Scan# 1856
Delta R.T. -0.011 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

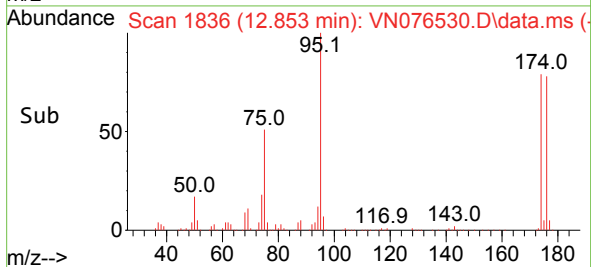
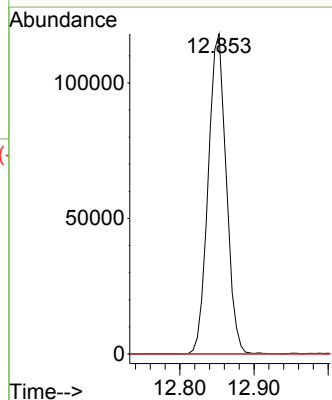
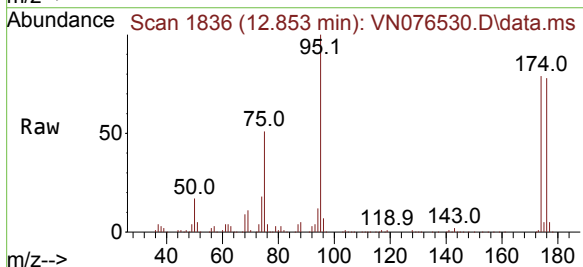
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0202

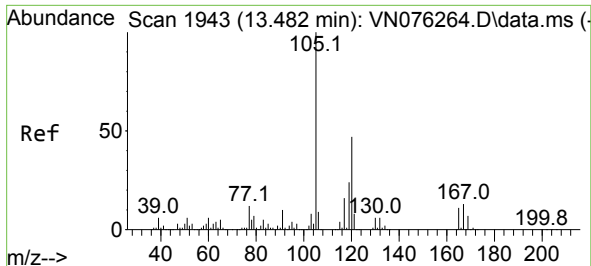
Tgt Ion:156 Resp: 722
Ion Ratio Lower Upper
156 100
77 165.4 93.4 280.2
158 79.1 48.4 145.2



#81
trans-1,4-Dichloro-2-butene
Concen: 93.117 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.118 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

Tgt Ion: 75 Resp: 199924
Ion Ratio Lower Upper
75 100
53 0.0 75.8 113.8#
89 0.0 37.0 55.6#

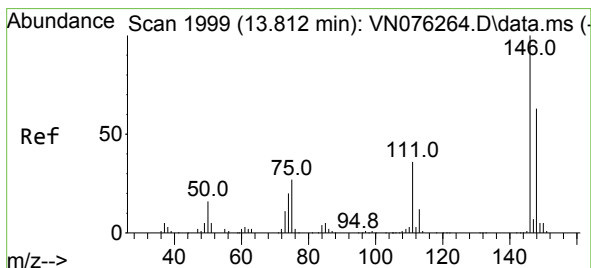
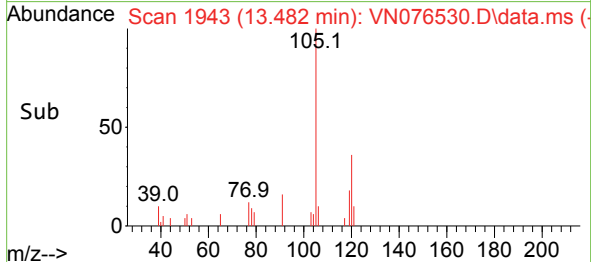
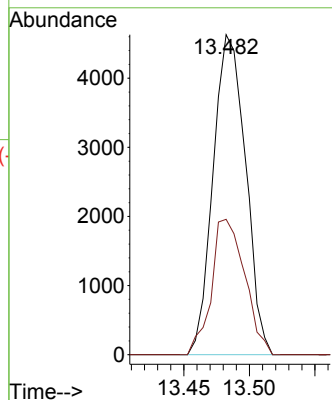
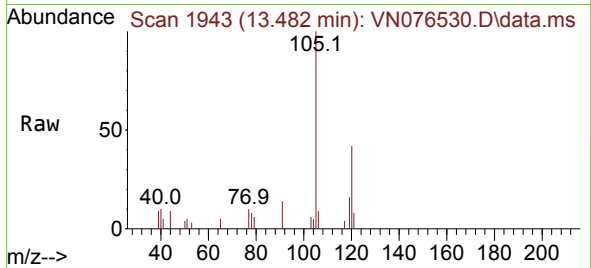




#84
 1,2,4-Trimethylbenzene
 Concen: 0.343 ug/l
 RT: 13.482 min Scan# 1943
 Delta R.T. 0.000 min
 Lab File: VN076530.D
 Acq: 03 Feb 2023 14:11

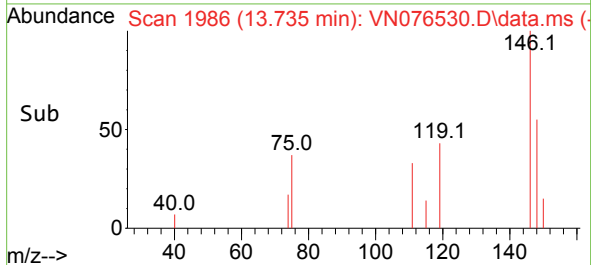
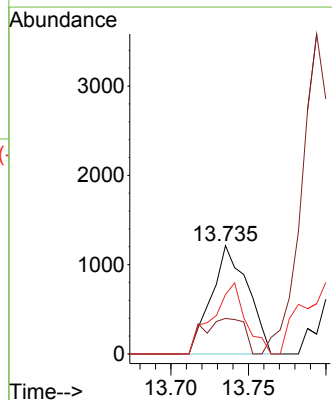
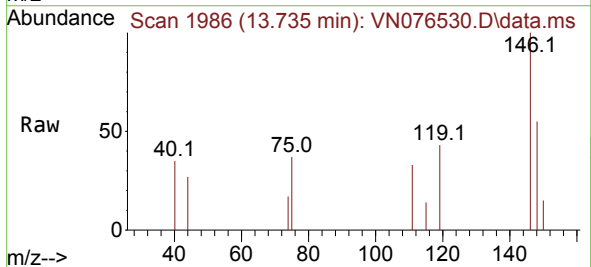
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13-0202

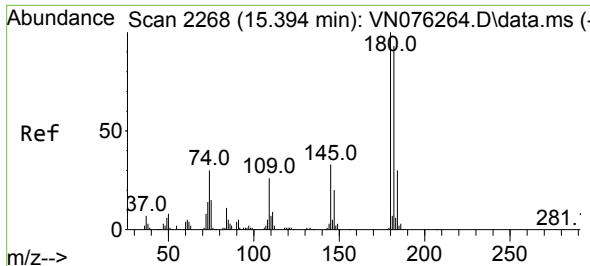
Tgt Ion:105 Resp: 7970
 Ion Ratio Lower Upper
 105 100
 120 43.5 22.9 68.5



#88
 1,4-Dichlorobenzene
 Concen: 0.261 ug/l
 RT: 13.735 min Scan# 1986
 Delta R.T. -0.077 min
 Lab File: VN076530.D
 Acq: 03 Feb 2023 14:11

Tgt Ion:146 Resp: 1978
 Ion Ratio Lower Upper
 146 100
 111 37.0 19.1 57.5
 148 59.7 31.9 95.9

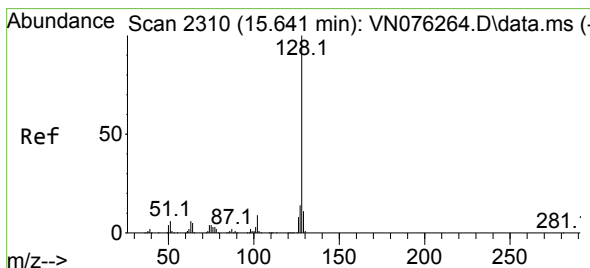
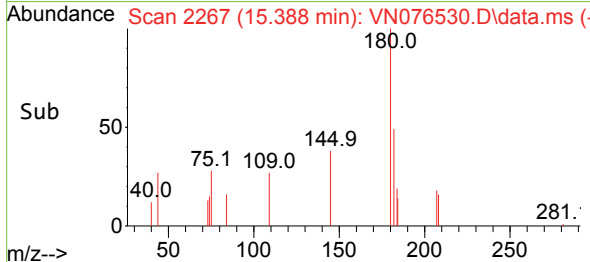
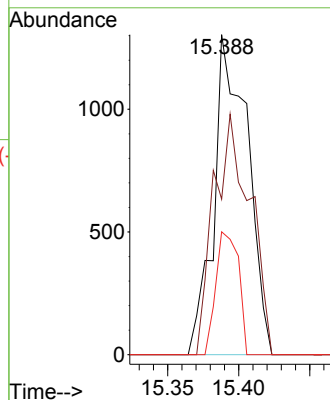
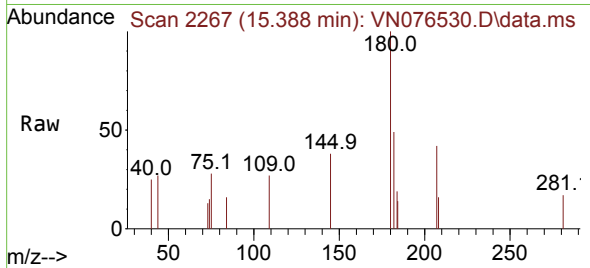




#93
1,2,4-Trichlorobenzene
Concen: 1.640 ug/l
RT: 15.388 min Scan# 2153
Delta R.T. -0.006 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

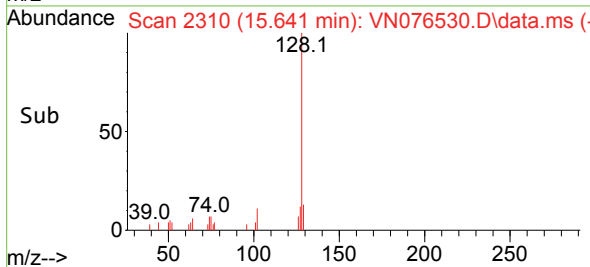
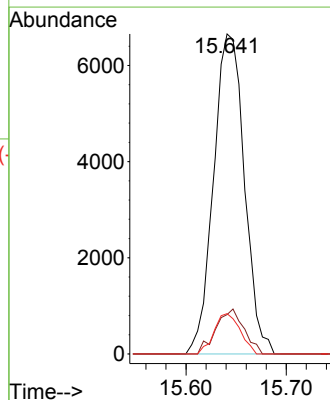
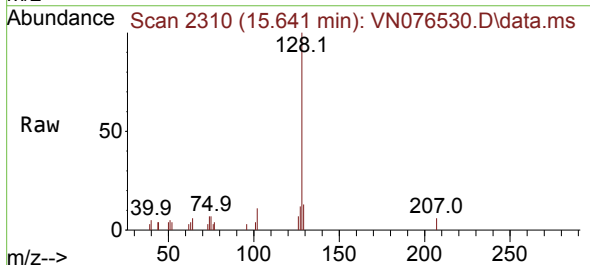
Instrument :
MSVOA_N
ClientSampleId :
MW-13-0202

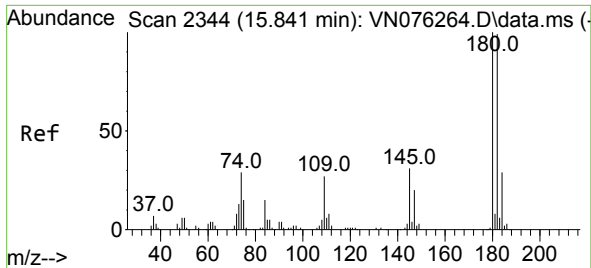
Tgt Ion	Ratio	Lower	Upper
180	100		
182	80.7	47.0	141.2
145	25.7	15.2	45.5



#95
Naphthalene
Concen: 2.577 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. -0.000 min
Lab File: VN076530.D
Acq: 03 Feb 2023 14:11

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	10.6	8.6	13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 1.487 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN076530.D
 Acq: 03 Feb 2023 14:11

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13-0202

Tgt Ion:180 Resp: 2037
 Ion Ratio Lower Upper
 180 100
 182 105.1 47.5 142.5
 145 29.6 15.9 47.6

