

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040122\
 Data File : VN071762.D
 Acq On : 01 Apr 2022 18:56
 Operator : JC\MD
 Sample : N2090-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-56

Quant Time: Apr 02 00:56:55 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N033022W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 31 01:57:54 2022
 Response via : Initial Calibration

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

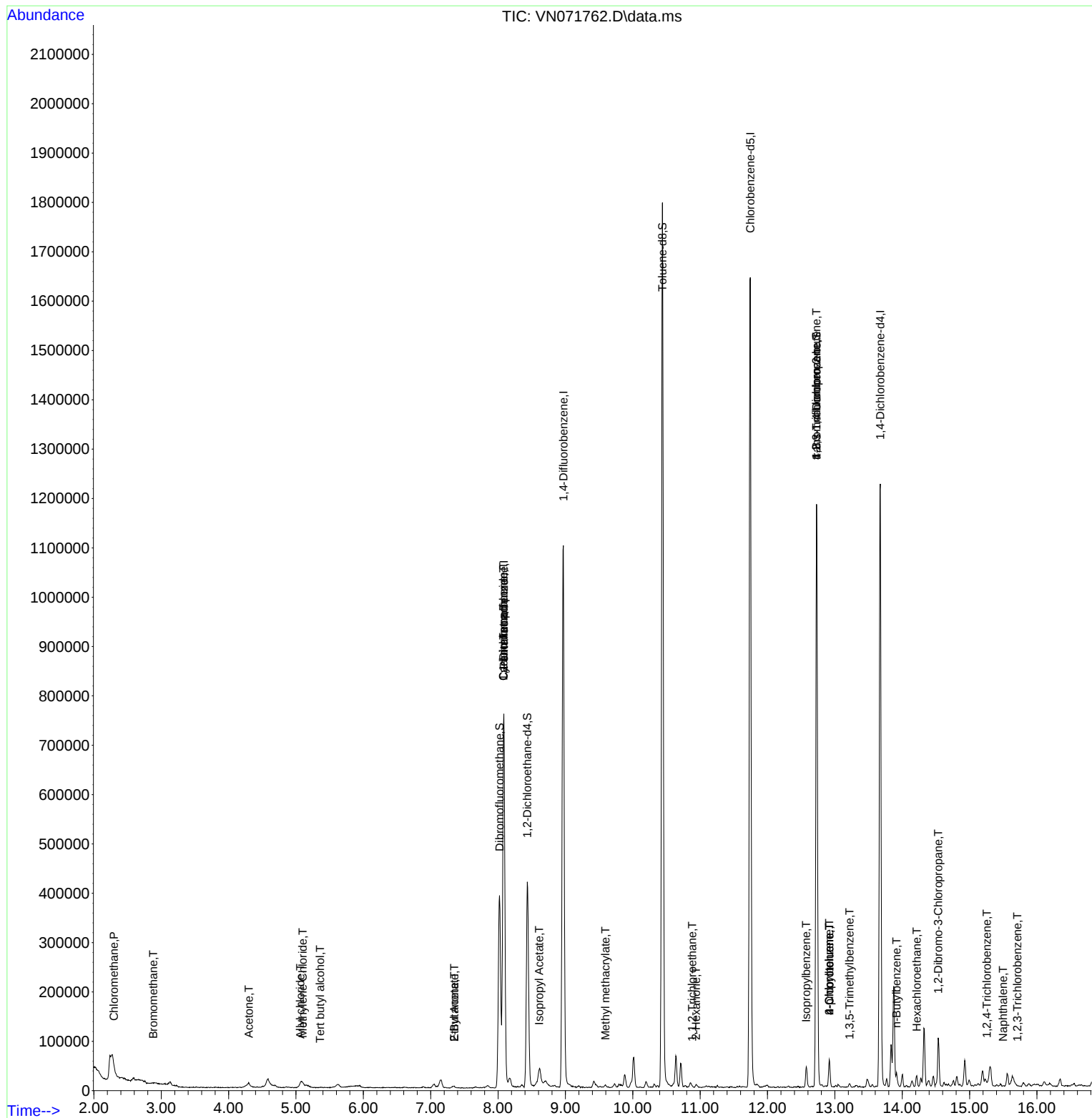
Internal Standards						
1) Pentafluorobenzene	8.086	168	608987	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.969	114	1030835	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.745	117	1043466	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.674	152	367292	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	349192	50.227	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 100.460%			
35) Dibromofluoromethane	8.022	113	296882	48.943	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.880%			
50) Toluene-d8	10.439	98	1295159	52.195	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 104.380%			
62) 4-Bromofluorobenzene	12.727	95	426539	53.150	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 106.300%			
Target Compounds						Qvalue
3) Chloromethane	2.299	50	2371	0.386	ug/l	89
5) Bromomethane	2.881	94	1144	0.261	ug/l	81
11) Tert butyl alcohol	5.357	59	500	0.443	ug/l #	72
14) Allyl chloride	5.063	41	2763	0.339	ug/l #	58
16) Acetone	4.298	43	15008	5.051	ug/l #	88
18) Methyl Acetate	4.857	43	1902	Below Cal	#	89
20) Methylene Chloride	5.098	84	1985	0.317	ug/l #	67
25) 2-Butanone	7.351	43	5014	1.171	ug/l	98
31) Cyclohexane	8.081	56	19746	2.088	ug/l #	51
36) 1,1-Dichloropropene	8.081	75	41977	4.956	ug/l #	41
37) Ethyl Acetate	7.351	43	5014	0.541	ug/l #	67
38) Carbon Tetrachloride	8.081	117	54435	6.557	ug/l #	16
43) Isopropyl Acetate	8.610	43	19536	1.267	ug/l #	53
48) Methyl methacrylate	9.592	41	1340	0.209	ug/l #	21
55) 1,1,2-Trichloroethane	10.880	97	1654	0.238	ug/l #	16
59) 2-Hexanone	10.939	43	4005	0.642	ug/l	72
73) Isopropylbenzene	12.574	105	27234	0.880	ug/l	99
76) 1,2,3-Trichloropropane	12.727	75	204943	24.087	ug/l #	1
78) n-propylbenzene	12.916	91	46080	1.415	ug/l	96
79) 2-Chlorotoluene	12.916	91	46080	2.207	ug/l #	40
80) 1,3,5-Trimethylbenzene	13.216	105	5961	0.243	ug/l	75
81) trans-1,4-Dichloro-2-b...	12.727	75	204943	74.643	ug/l #	10
82) 4-Chlorotoluene	12.916	91	46080	2.381	ug/l #	40
89) n-Butylbenzene	13.915	91	4859	0.283	ug/l #	2
90) Hexachloroethane	14.215	117	1880	0.443	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.533	75	385	0.240	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.257	180	59	2.095	ug/l #	1
95) Naphthalene	15.498	128	980	3.857	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.709	180	77	2.427	ug/l #	12

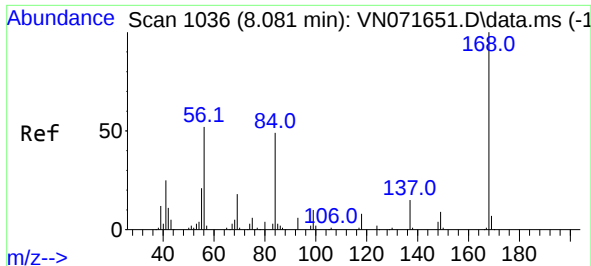
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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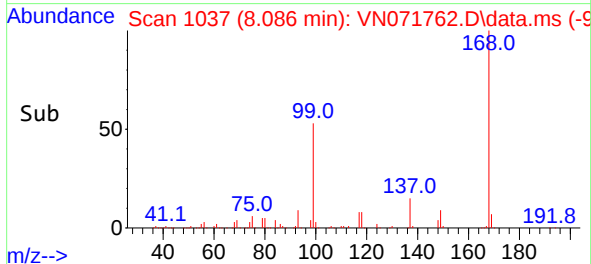
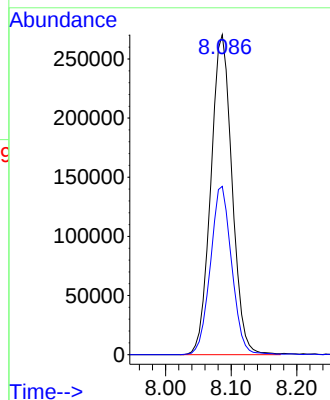
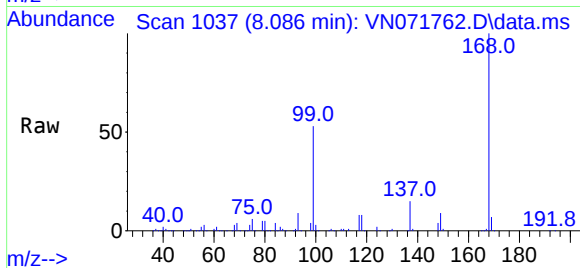




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

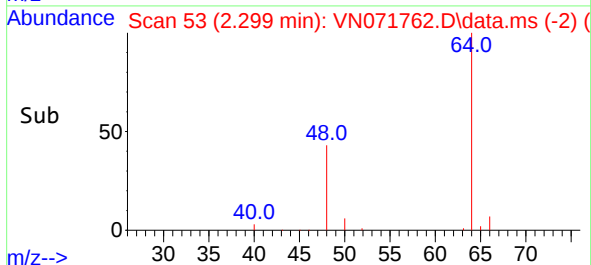
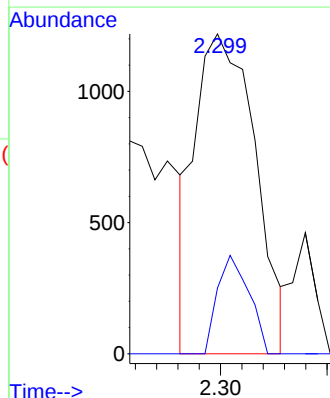
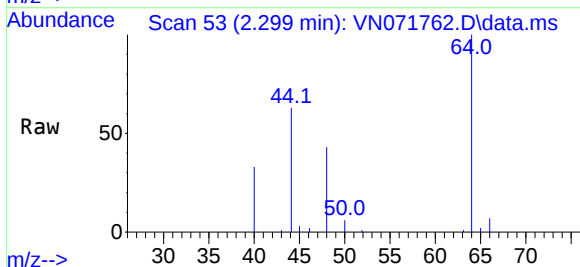
Instrument :
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ClientSampleId :
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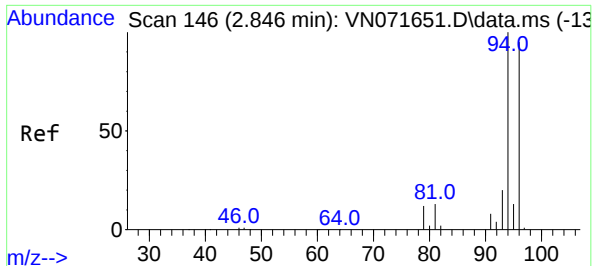
Tgt Ion:168 Resp: 608987
Ion Ratio Lower Upper
168 100
99 52.6 42.3 63.5



#3
Chloromethane
Concen: 0.386 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 50 Resp: 2371
Ion Ratio Lower Upper
50 100
52 26.1 25.7 38.5

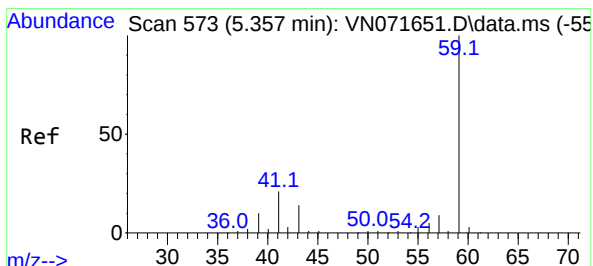
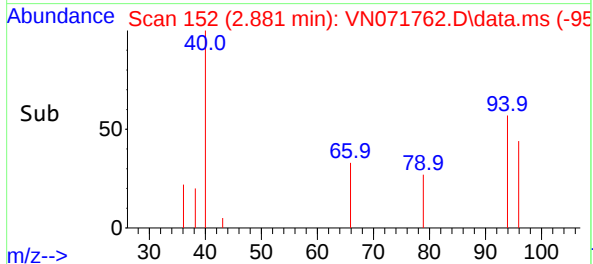
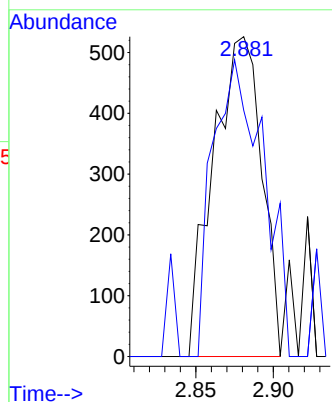
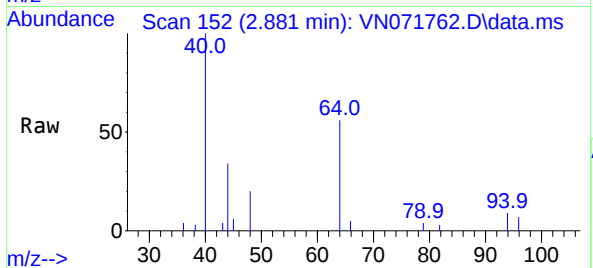




#5
Bromomethane
Concen: 0.261 ug/l
RT: 2.881 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

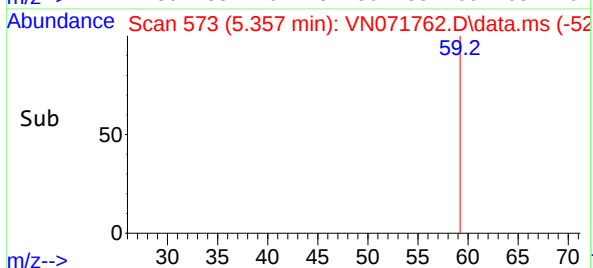
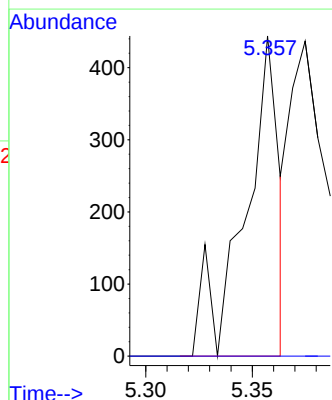
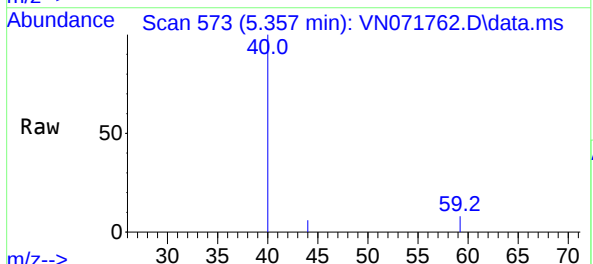
Instrument :
MSVOA_N
ClientSampleId :
MW-56

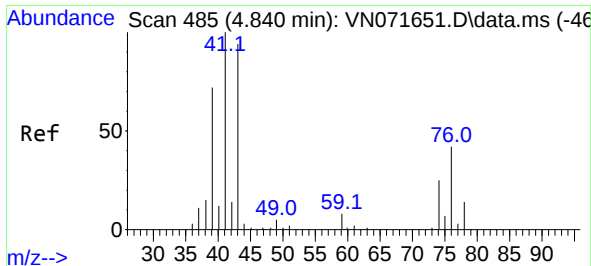
Tgt Ion: 94 Resp: 1144
Ion Ratio Lower Upper
94 100
96 77.0 76.0 114.0



#11
Tert butyl alcohol
Concen: 0.443 ug/l
RT: 5.357 min Scan# 573
Delta R.T. 0.000 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 59 Resp: 500
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

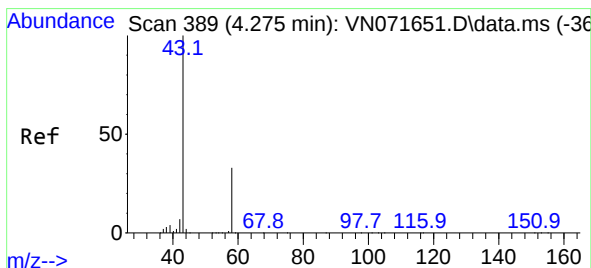
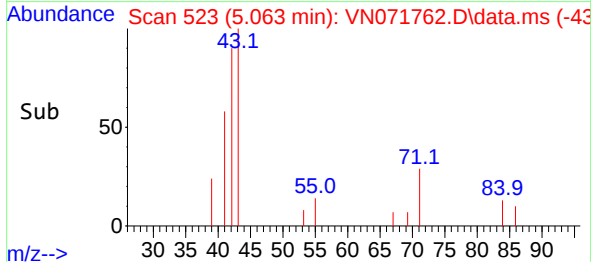
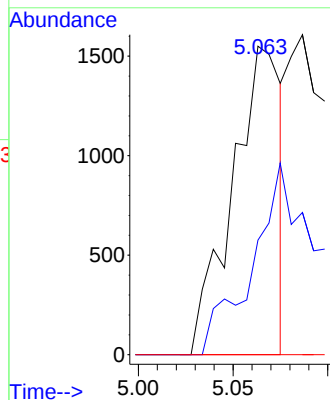
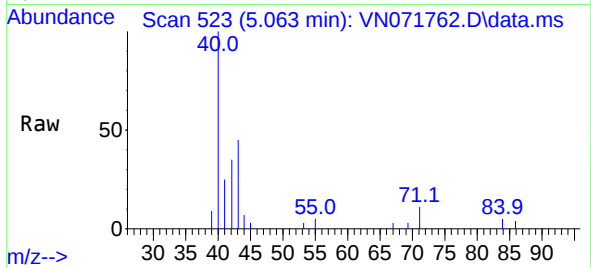




#14
Allyl chloride
Concen: 0.339 ug/l
RT: 5.063 min Scan# 51
Delta R.T. 0.223 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

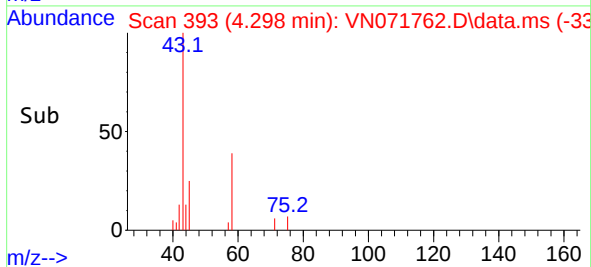
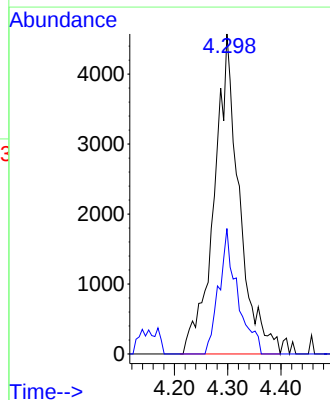
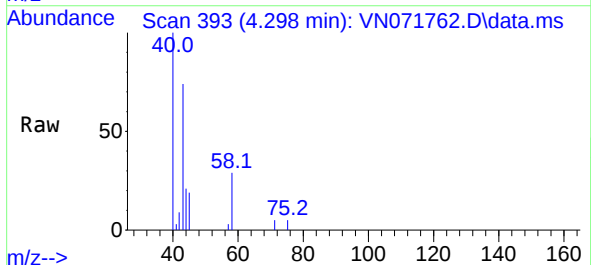
Instrument :
MSVOA_N
ClientSampleId :
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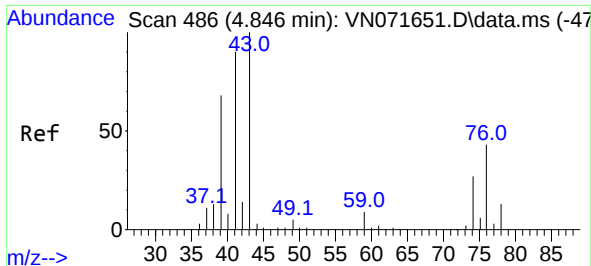
Tgt Ion: 41 Resp: 2763
Ion Ratio Lower Upper
41 100
39 90.4 53.2 79.8#
76 0.0 29.9 44.9#



#16
Acetone
Concen: 5.051 ug/l
RT: 4.298 min Scan# 393
Delta R.T. 0.023 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 43 Resp: 15008
Ion Ratio Lower Upper
43 100
58 39.2 26.0 39.0#

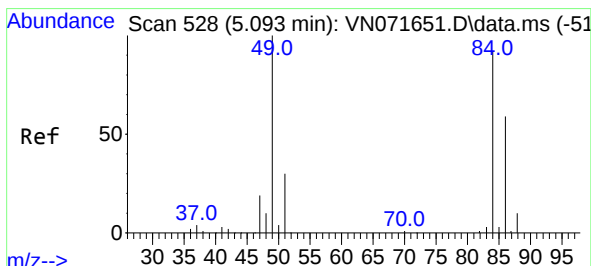
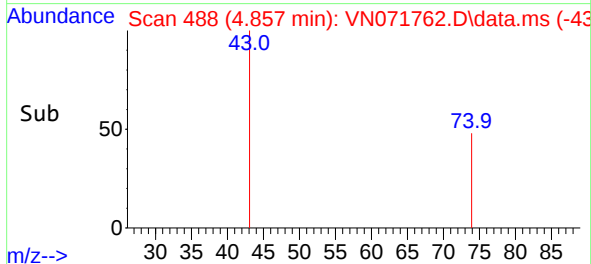
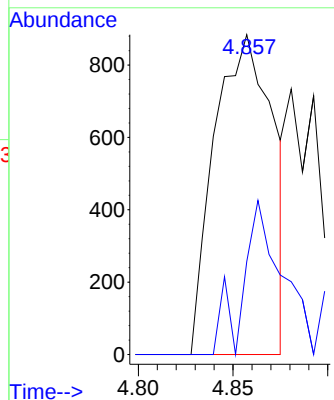
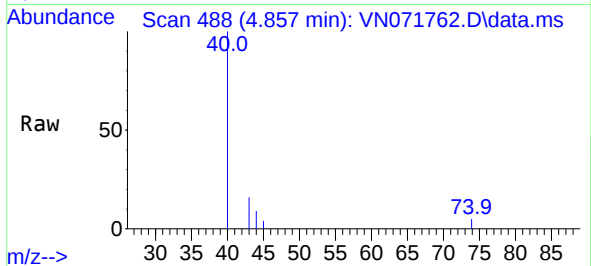




#18
Methyl Acetate
Concen: Below Cal
RT: 4.857 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

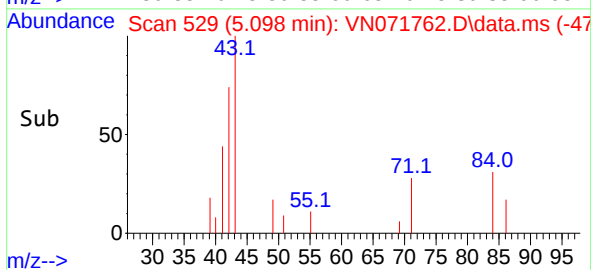
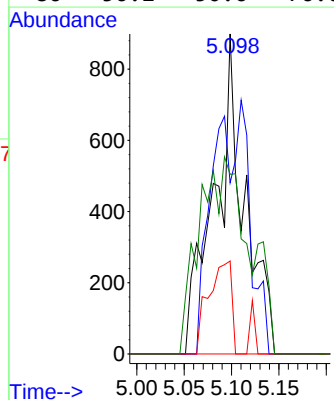
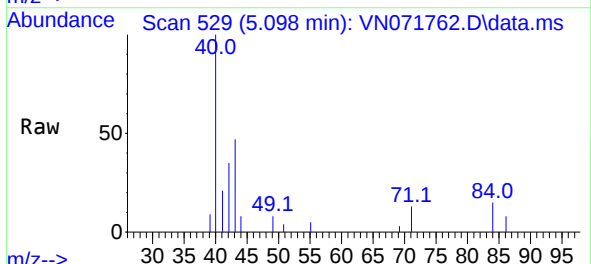
Instrument :
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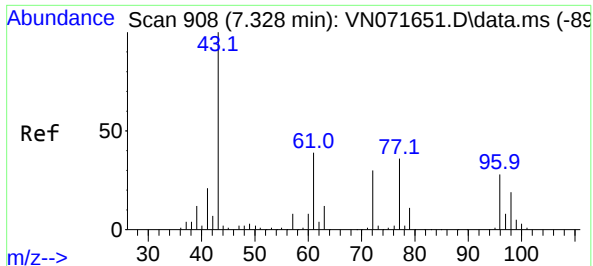
Tgt Ion: 43 Resp: 1902
Ion Ratio Lower Upper
43 100
74 32.4 21.6 32.4#



#20
Methylene Chloride
Concen: 0.317 ug/l
RT: 5.098 min Scan# 529
Delta R.T. 0.005 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 84 Resp: 1985
Ion Ratio Lower Upper
84 100
49 53.5 88.3 132.5#
51 29.0 28.2 42.2
86 56.2 50.6 76.0

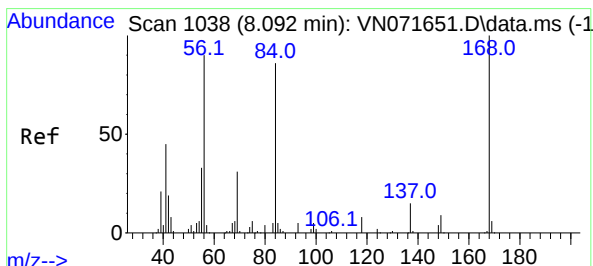
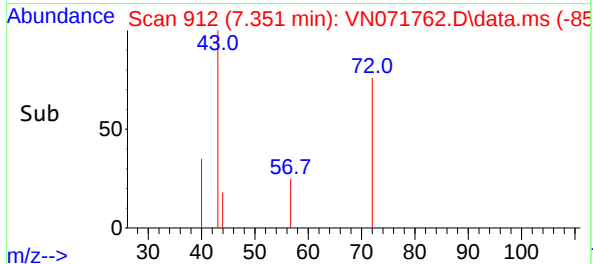
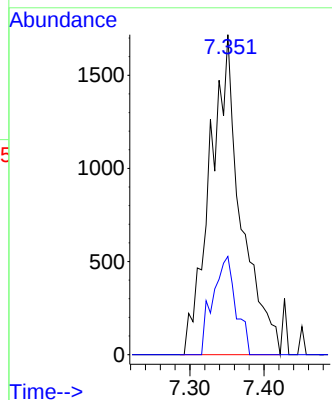
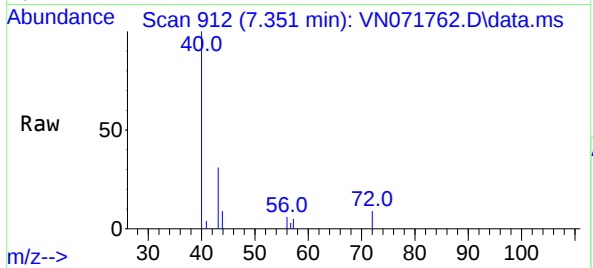




#25
2-Butanone
Concen: 1.171 ug/l
RT: 7.351 min Scan# 91
Delta R.T. 0.023 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

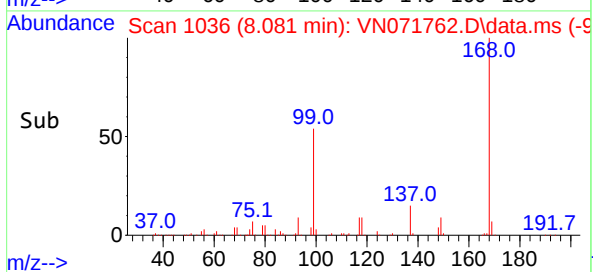
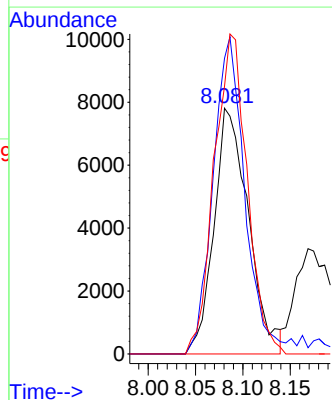
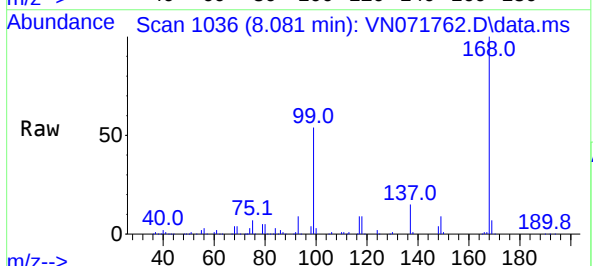
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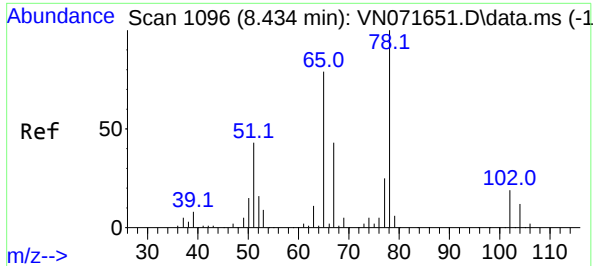
Tgt Ion: 43 Resp: 5014
Ion Ratio Lower Upper
43 100
72 30.7 23.7 35.5



#31
Cyclohexane
Concen: 2.088 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.011 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 56 Resp: 19746
Ion Ratio Lower Upper
56 100
69 120.4 27.8 41.8#
84 109.0 76.9 115.3

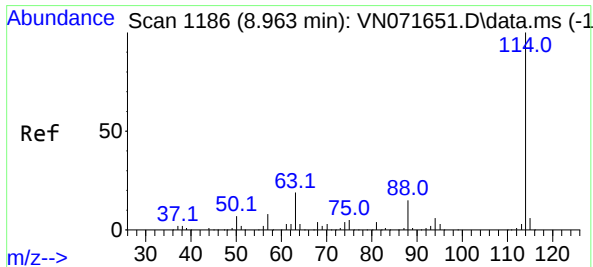
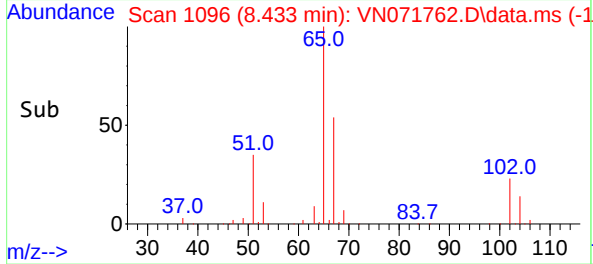
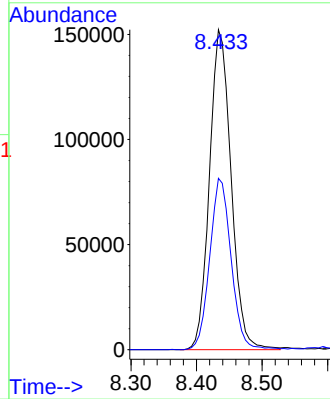
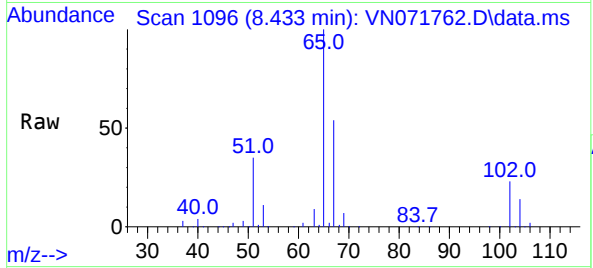




#33
1,2-Dichloroethane-d4
Concen: 50.227 ug/l
RT: 8.433 min Scan# 1096
Delta R.T. -0.001 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

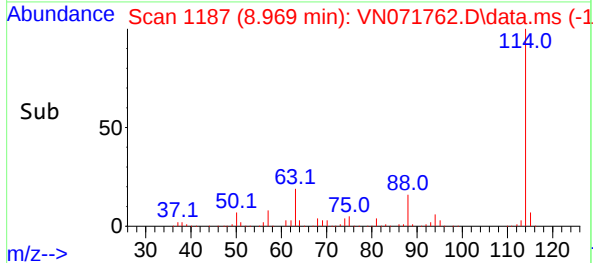
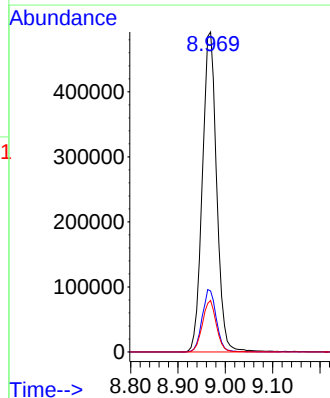
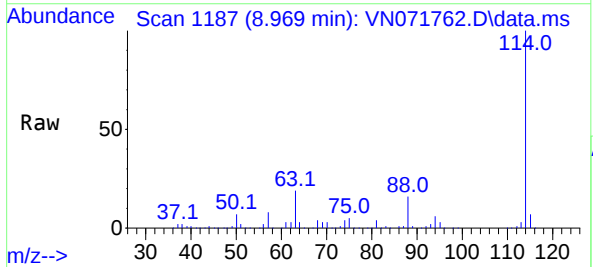
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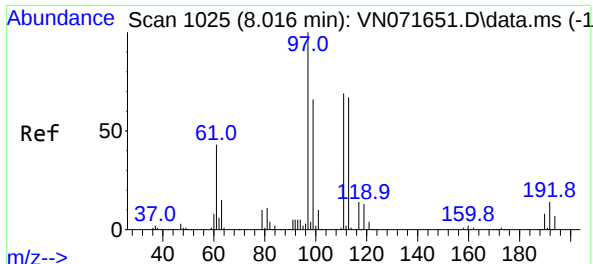
Tgt Ion: 65 Resp: 349192
Ion Ratio Lower Upper
65 100
67 53.0 0.0 104.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.969 min Scan# 1187
Delta R.T. 0.006 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion:114 Resp: 1030835
Ion Ratio Lower Upper
114 100
63 19.1 0.0 40.0
88 16.1 0.0 32.6

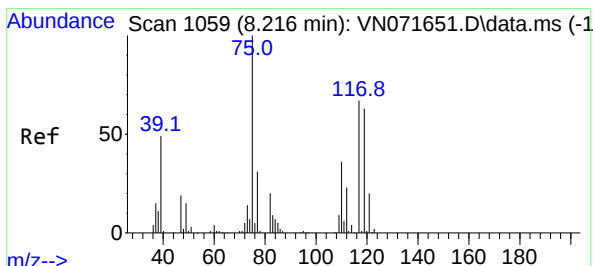
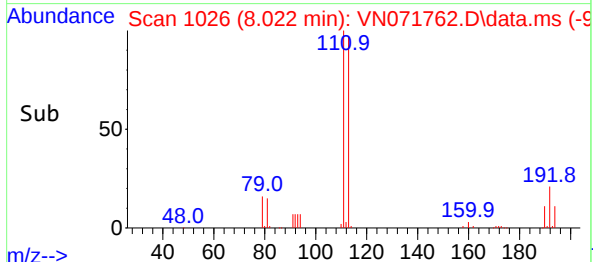
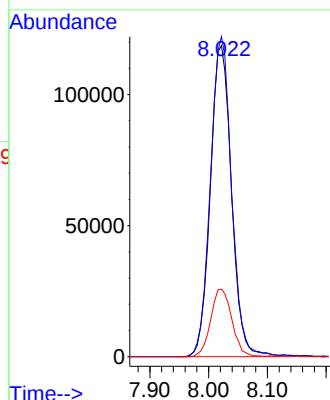
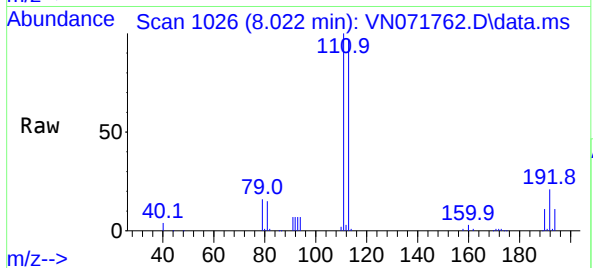




#35
Dibromofluoromethane
Concen: 48.943 ug/l
RT: 8.022 min Scan# 1026
Delta R.T. 0.006 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

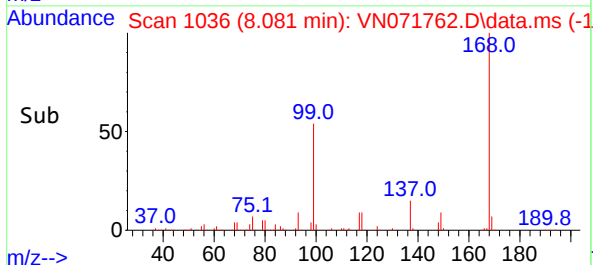
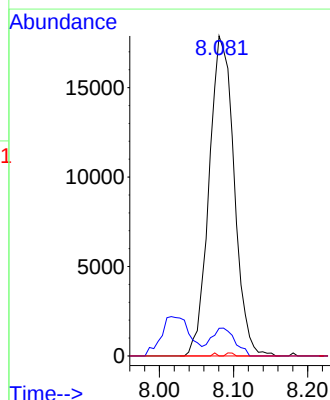
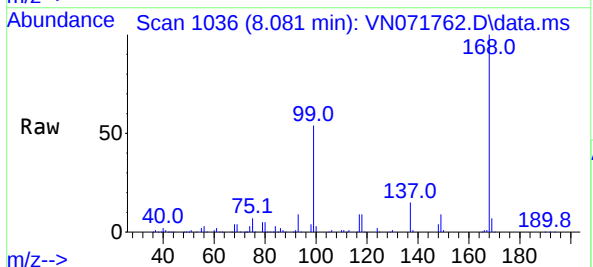
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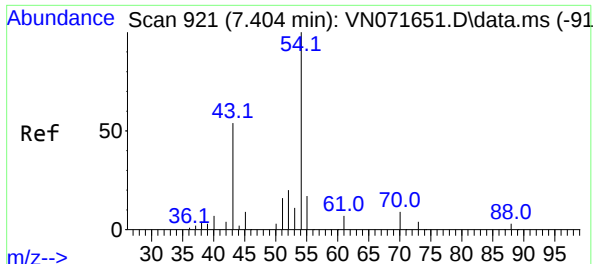
Tgt Ion:113 Resp: 296882
Ion Ratio Lower Upper
113 100
111 103.1 81.4 122.0
192 21.7 17.0 25.6



#36
1,1-Dichloropropene
Concen: 4.956 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.135 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 75 Resp: 41977
Ion Ratio Lower Upper
75 100
110 0.0 18.3 54.8#
77 0.1 25.1 37.7#

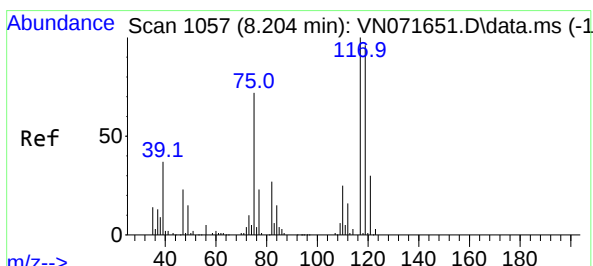
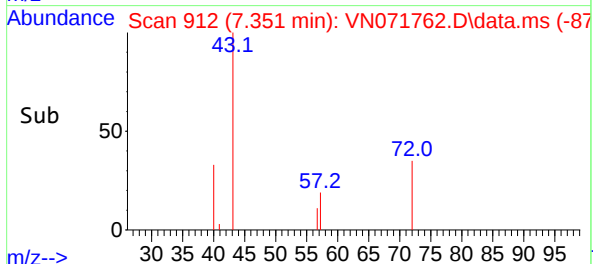
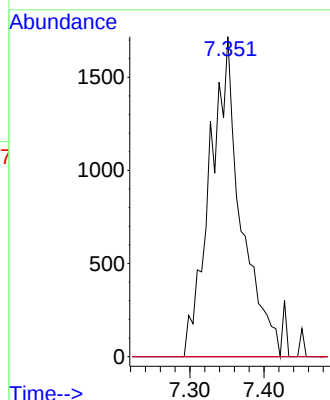
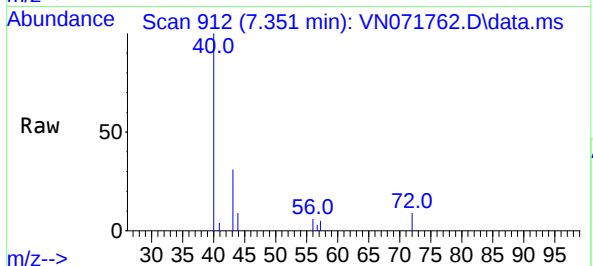




#37
Ethyl Acetate
Concen: 0.541 ug/l
RT: 7.351 min Scan# 91
Delta R.T. -0.053 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

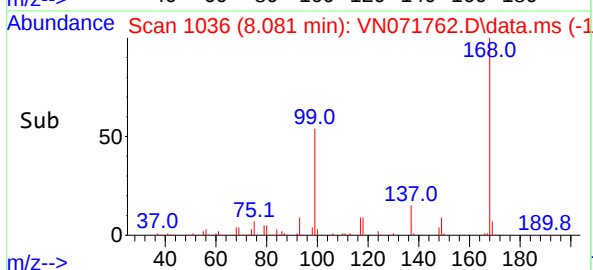
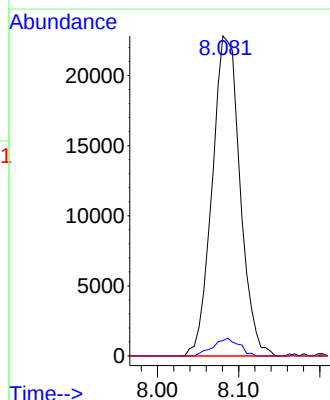
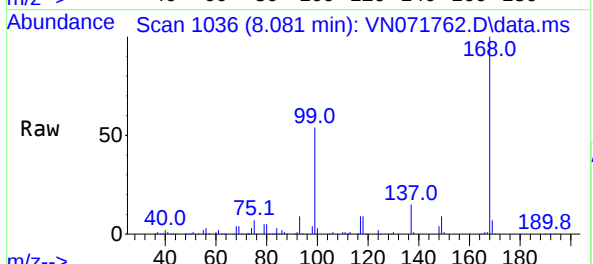
Instrument :
MSVOA_N
ClientSampleId :
MW-56

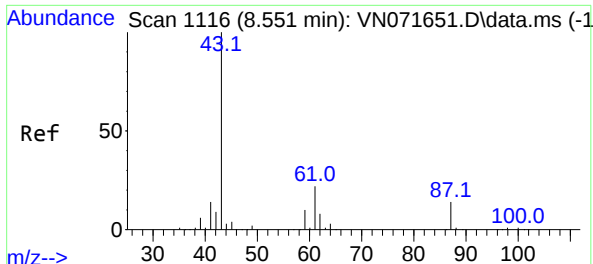
Tgt Ion: 43 Resp: 5014
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 6.557 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.123 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 117 Resp: 54435
Ion Ratio Lower Upper
117 100
119 4.8 75.8 113.8#
121 0.0 24.6 37.0#

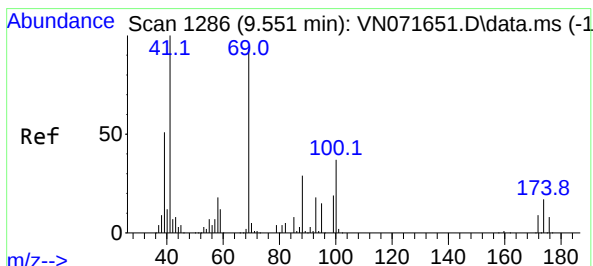
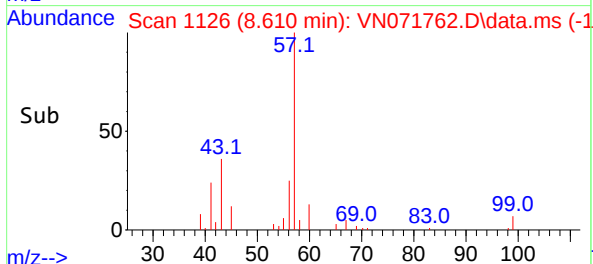
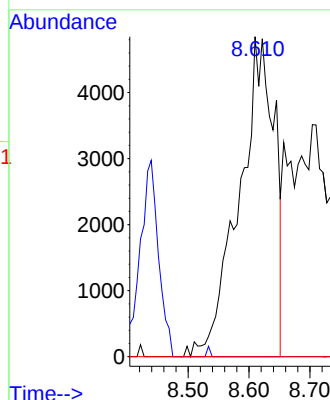
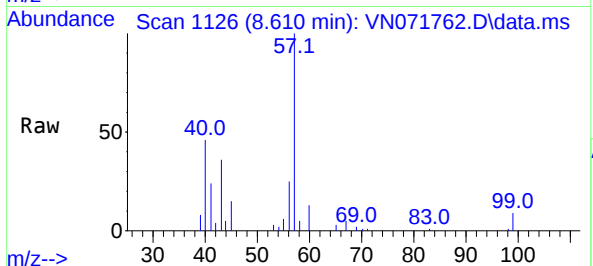




#43
Isopropyl Acetate
Concen: 1.267 ug/l
RT: 8.610 min Scan# 1116
Delta R.T. 0.059 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

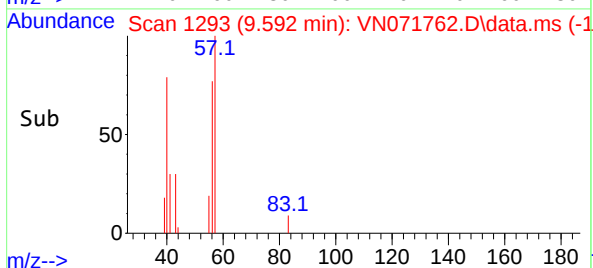
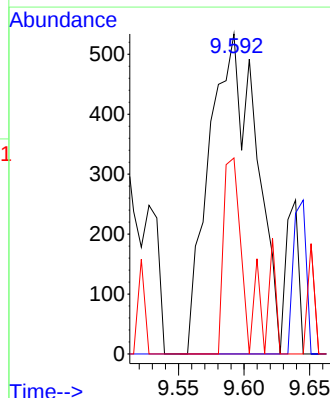
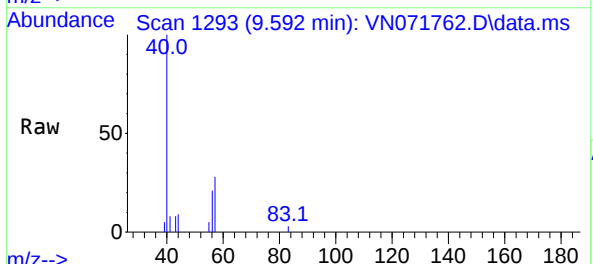
Instrument :
MSVOA_N
ClientSampleId :
MW-56

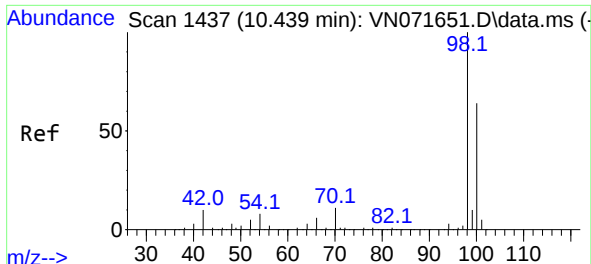
Tgt Ion: 43 Resp: 19536
Ion Ratio Lower Upper
43 100
61 0.0 21.9 32.9#
87 0.0 12.0 18.0#



#48
Methyl methacrylate
Concen: 0.209 ug/l
RT: 9.592 min Scan# 1293
Delta R.T. 0.041 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 41 Resp: 1340
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 21.3 45.6 68.4#

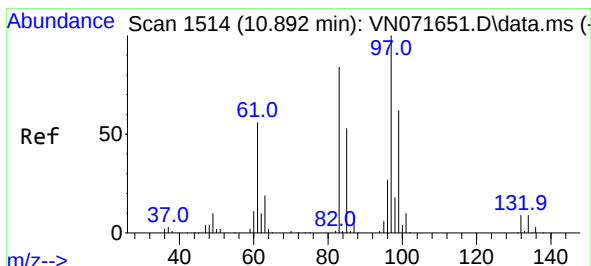
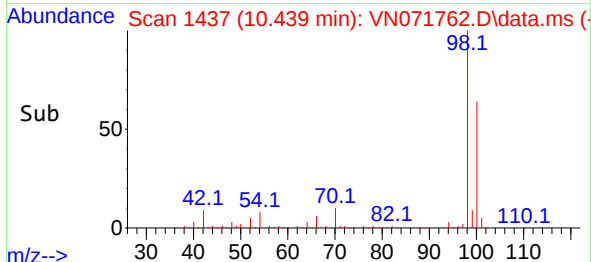
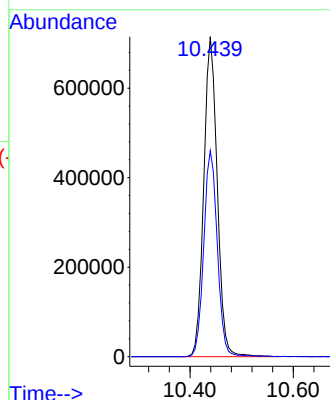
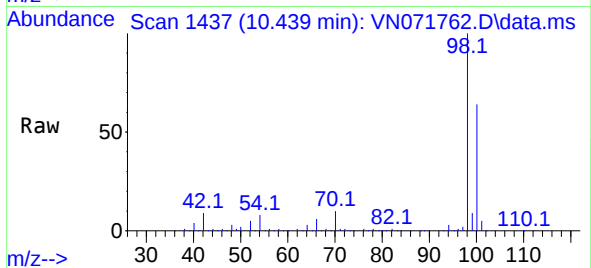




#50
Toluene-d8
Concen: 52.195 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

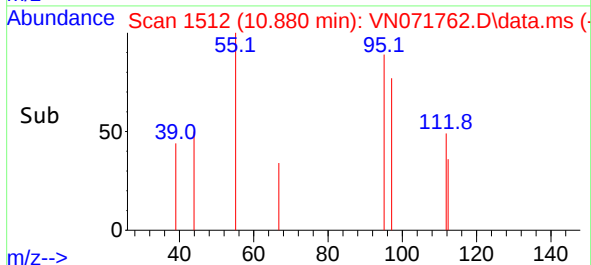
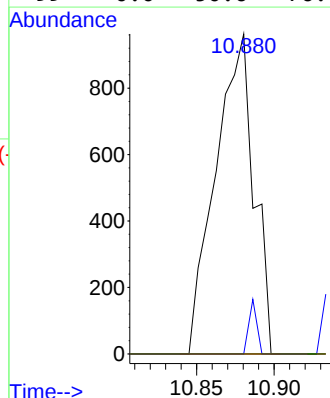
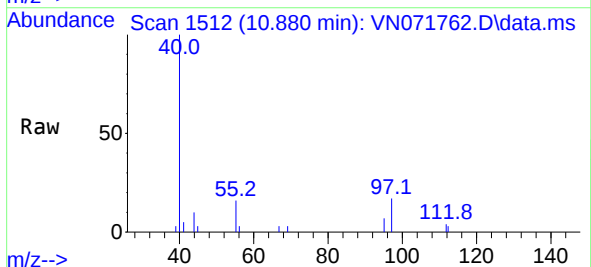
Instrument :
MSVOA_N
ClientSampleId :
MW-56

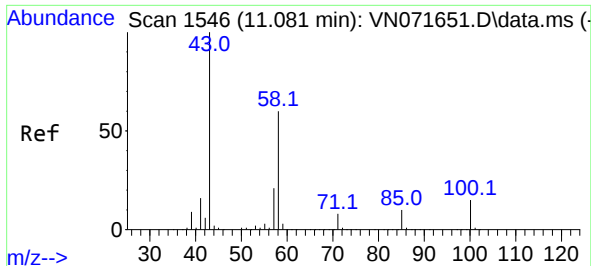
Tgt Ion: 98 Resp: 1295159
Ion Ratio Lower Upper
98 100
100 64.7 52.6 78.8



#55
1,1,2-Trichloroethane
Concen: 0.238 ug/l
RT: 10.880 min Scan# 1512
Delta R.T. -0.012 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 97 Resp: 1654
Ion Ratio Lower Upper
97 100
83 0.0 66.2 99.4#
85 0.0 43.9 65.9#
99 0.0 50.6 76.0#





#59

2-Hexanone

Concen: 0.642 ug/l

RT: 10.939 min Scan# 11

Delta R.T. -0.142 min

Lab File: VN071762.D

Acq: 01 Apr 2022 18:56

Instrument :

MSVOA_N

ClientSampleId :

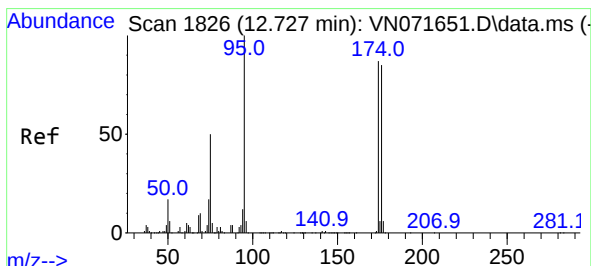
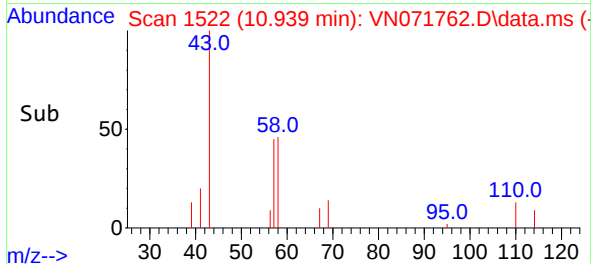
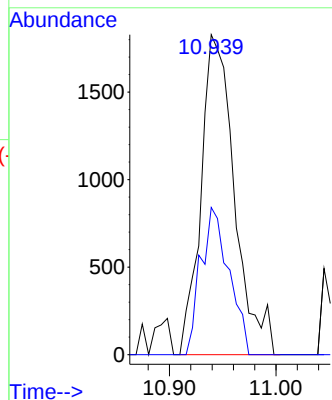
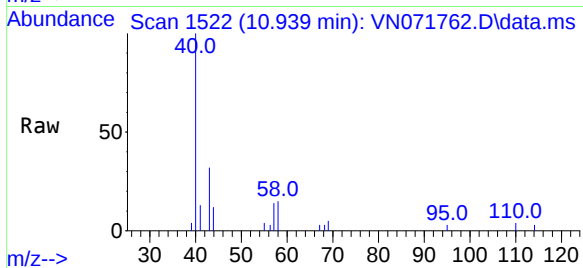
MW-56

Tgt Ion: 43 Resp: 4005

Ion Ratio Lower Upper

43 100

58 38.7 29.7 89.1



#62

4-Bromofluorobenzene

Concen: 53.150 ug/l

RT: 12.727 min Scan# 1826

Delta R.T. 0.000 min

Lab File: VN071762.D

Acq: 01 Apr 2022 18:56

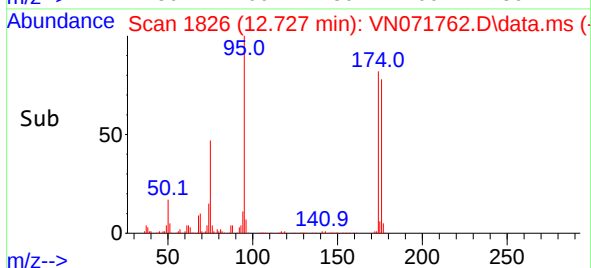
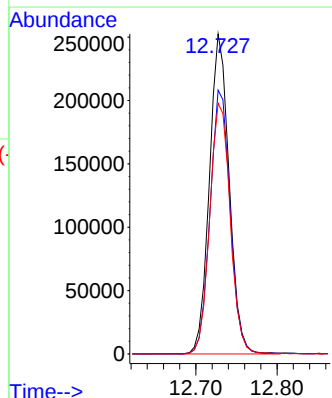
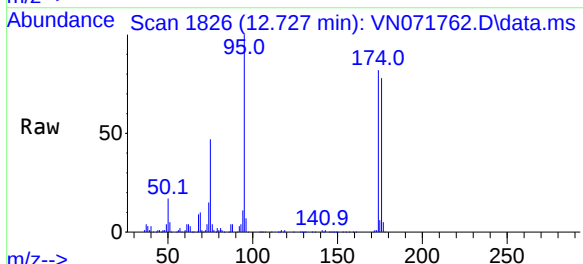
Tgt Ion: 95 Resp: 426539

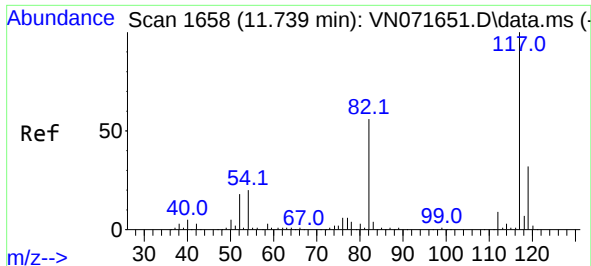
Ion Ratio Lower Upper

95 100

174 84.1 0.0 167.6

176 81.1 0.0 163.4

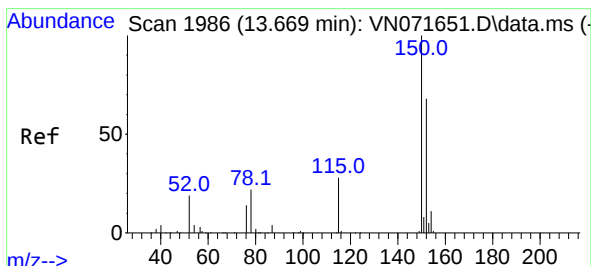
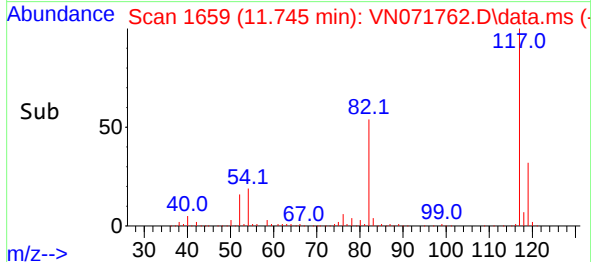
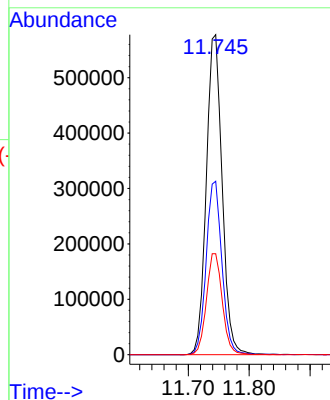
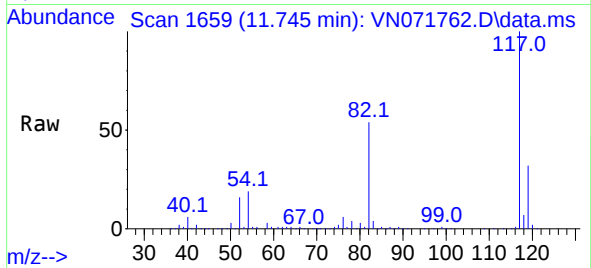




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.745 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

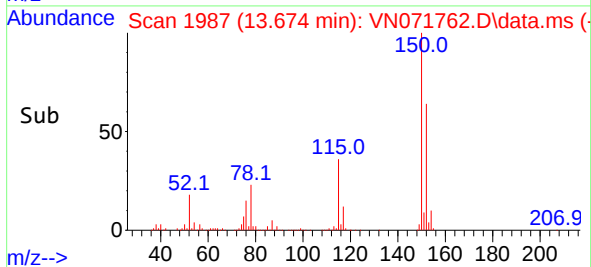
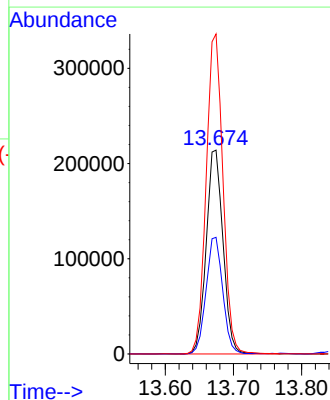
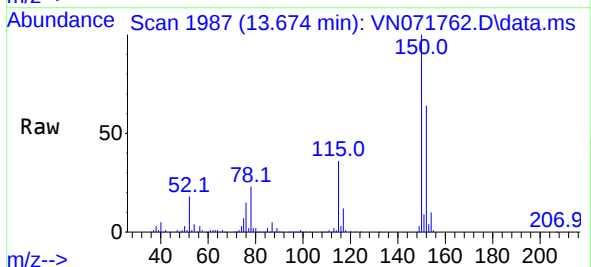
Instrument :
MSVOA_N
ClientSampleId :
MW-56

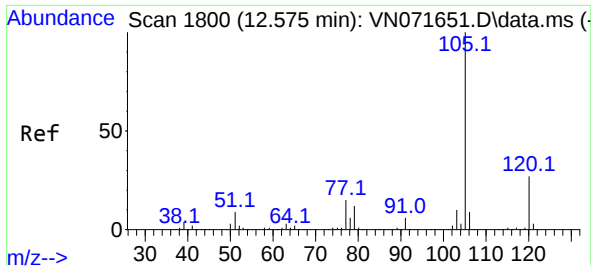
Tgt Ion:117 Resp: 1043466
Ion Ratio Lower Upper
117 100
82 54.2 44.2 66.2
119 31.6 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.674 min Scan# 1987
Delta R.T. 0.005 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion:152 Resp: 367292
Ion Ratio Lower Upper
152 100
115 56.9 28.9 86.7
150 156.8 0.0 356.2

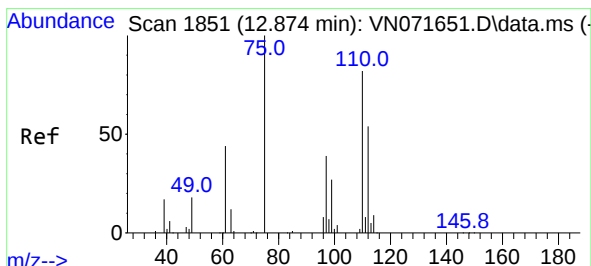
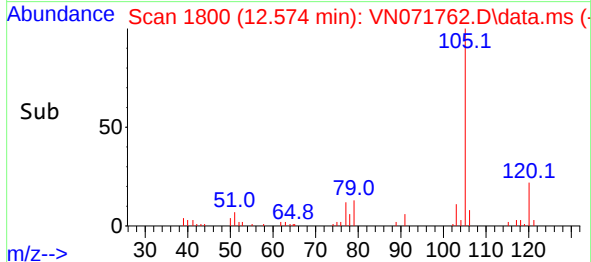
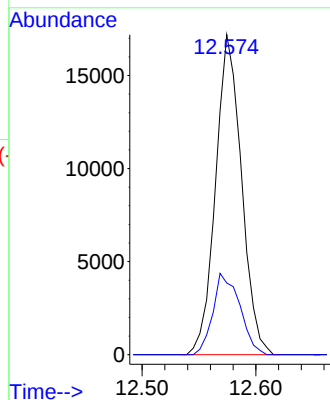
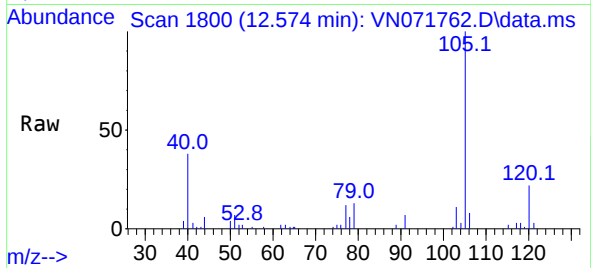




#73
Isopropylbenzene
Concen: 0.880 ug/l
RT: 12.574 min Scan# 1800
Delta R.T. -0.001 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

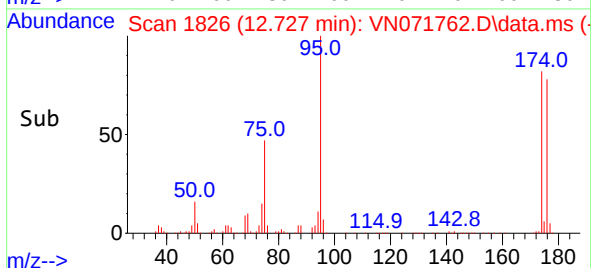
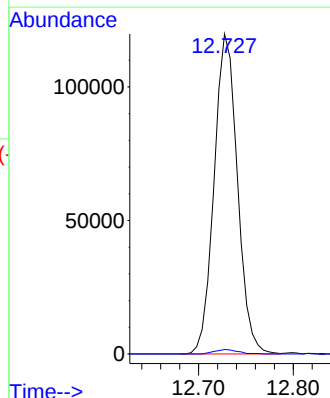
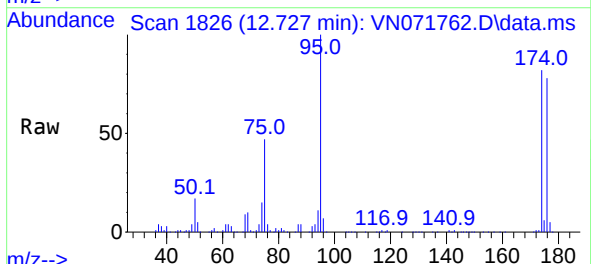
Instrument : MSVOA_N
ClientSampleId : MW-56

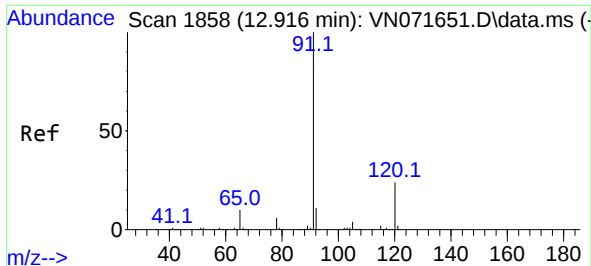
Tgt Ion:105 Resp: 27234
Ion Ratio Lower Upper
105 100
120 26.3 13.5 40.4



#76
1,2,3-Trichloropropane
Concen: 24.087 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 75 Resp: 204943
Ion Ratio Lower Upper
75 100
77 1.4 98.5 295.5#

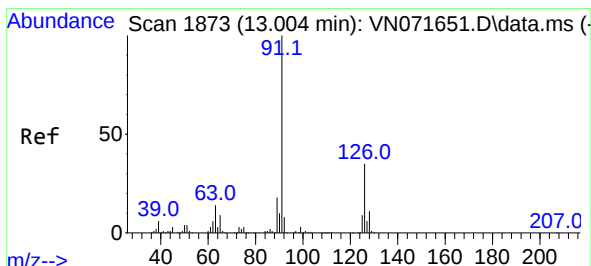
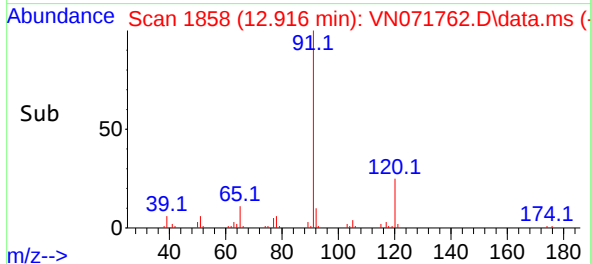
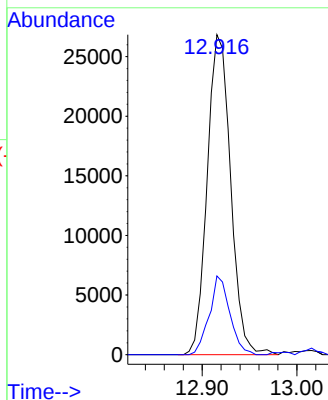
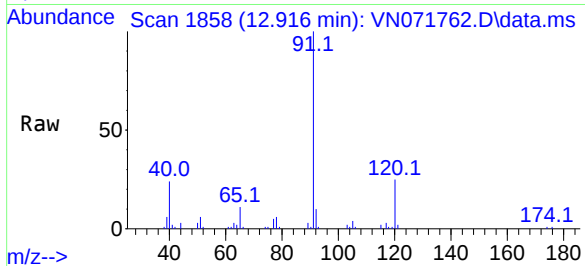




#78
n-propylbenzene
Concen: 1.415 ug/l
RT: 12.916 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

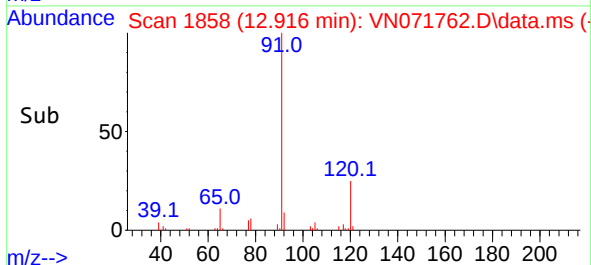
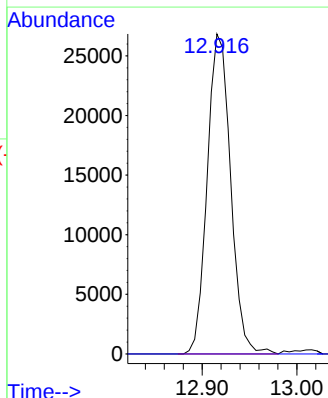
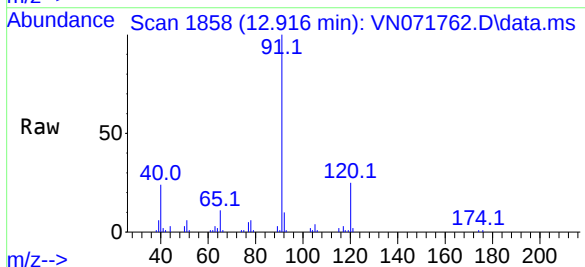
Instrument : MSVOA_N
ClientSampleId : MW-56

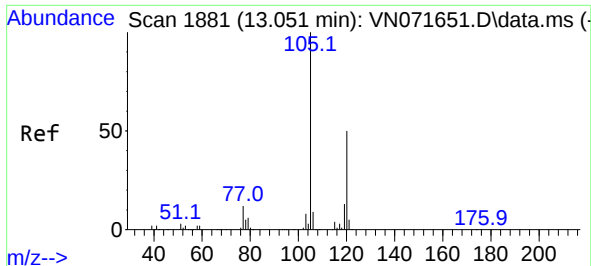
Tgt Ion: 91 Resp: 46080
Ion Ratio Lower Upper
91 100
120 21.6 11.9 35.5



#79
2-Chlorotoluene
Concen: 2.207 ug/l
RT: 12.916 min Scan# 1858
Delta R.T. -0.088 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 91 Resp: 46080
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.9#

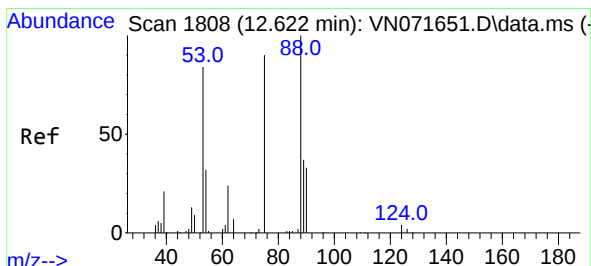
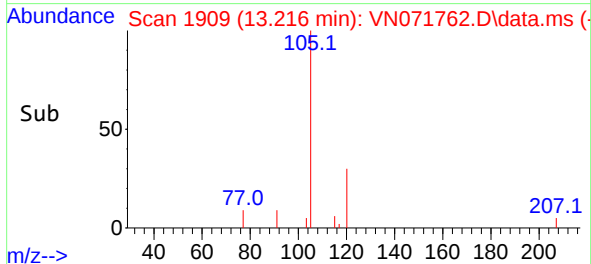
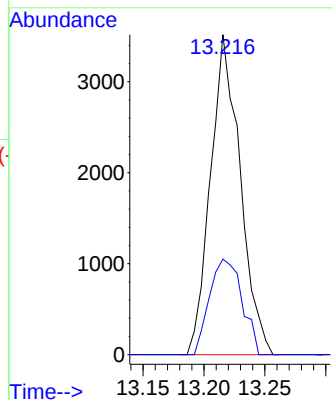
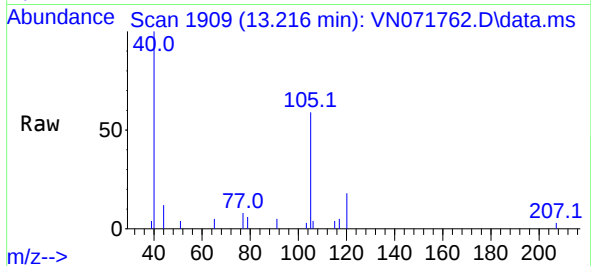




#80
1,3,5-Trimethylbenzene
Concen: 0.243 ug/l
RT: 13.216 min Scan# 1881
Delta R.T. 0.165 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

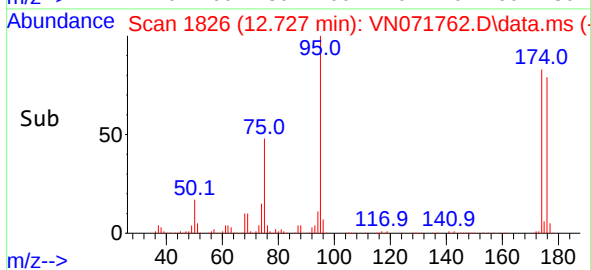
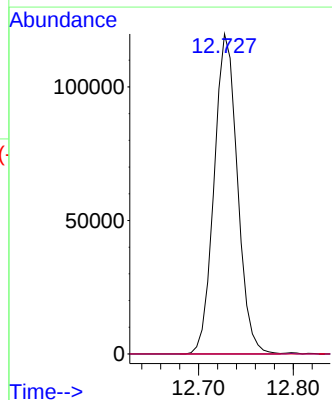
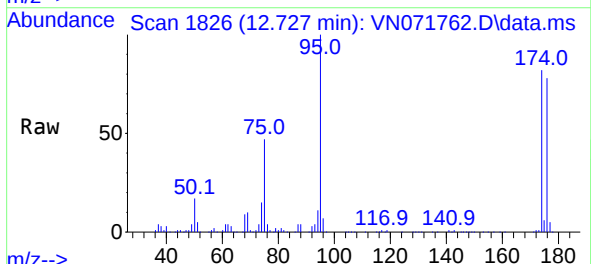
Instrument :
MSVOA_N
ClientSampleId :
MW-56

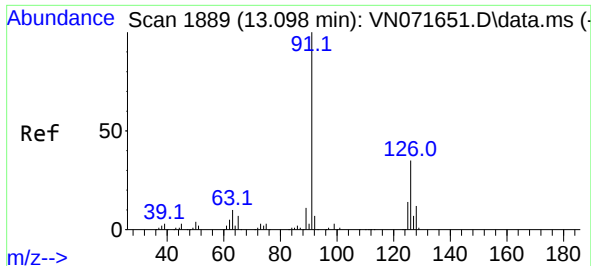
Tgt Ion:105 Resp: 5961
Ion Ratio Lower Upper
105 100
120 32.6 24.9 74.7



#81
trans-1,4-Dichloro-2-butene
Concen: 74.643 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.105 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 75 Resp: 204943
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#

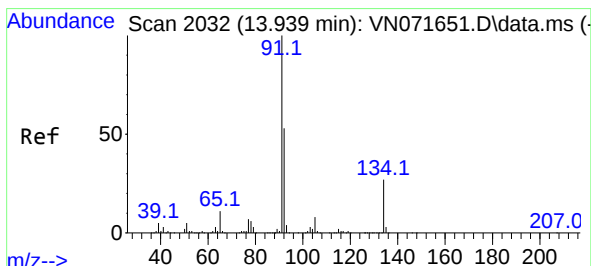
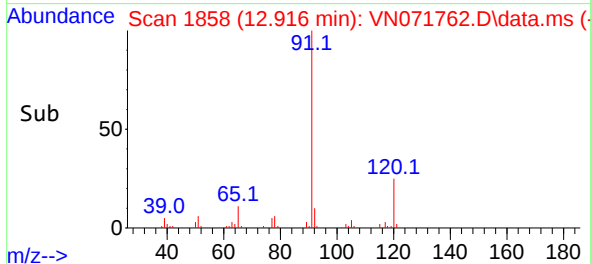
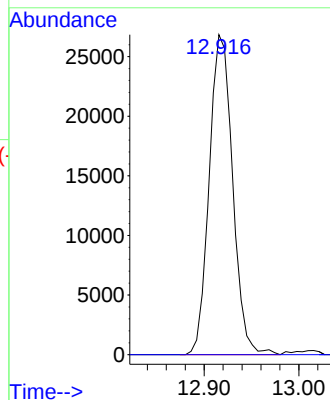
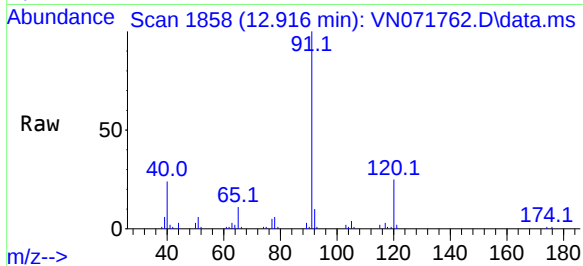




#82
4-Chlorotoluene
Concen: 2.381 ug/l
RT: 12.916 min Scan# 11
Delta R.T. -0.182 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

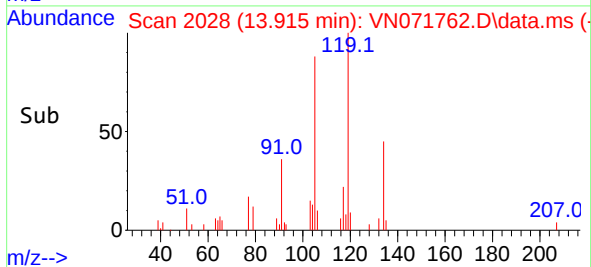
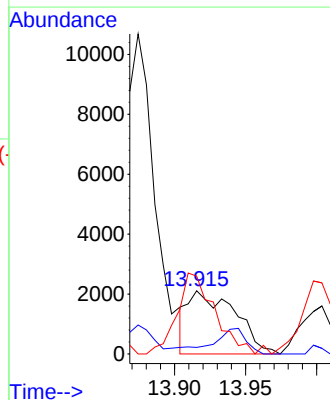
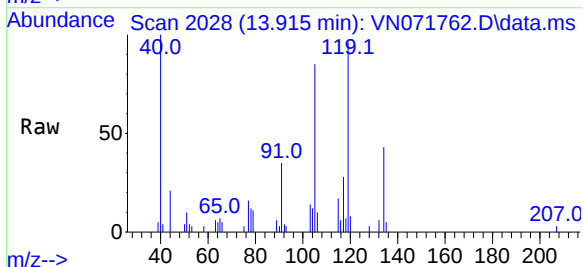
Instrument :
MSVOA_N
ClientSampleId :
MW-56

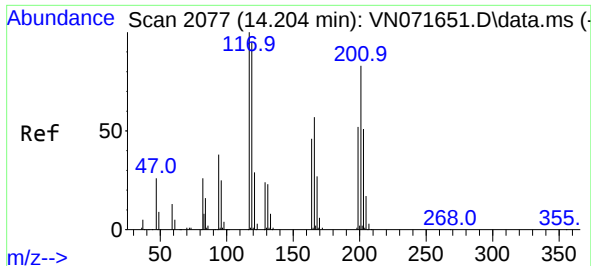
Tgt Ion: 91 Resp: 46080
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#89
n-Butylbenzene
Concen: 0.283 ug/l
RT: 13.915 min Scan# 2028
Delta R.T. -0.024 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 91 Resp: 4859
Ion Ratio Lower Upper
91 100
92 0.0 26.9 80.7#
134 101.8 13.6 40.8#

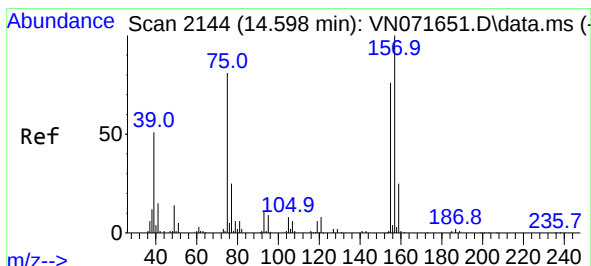
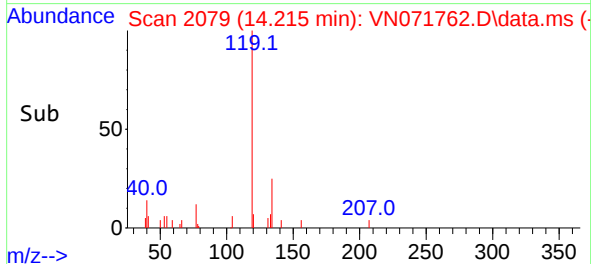
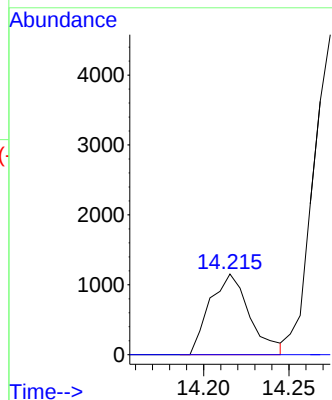
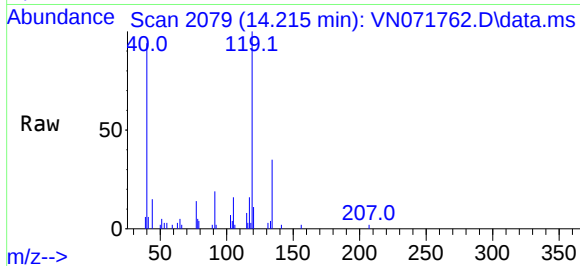




#90
Hexachloroethane
Concen: 0.443 ug/l
RT: 14.215 min Scan# 2077
Delta R.T. 0.011 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

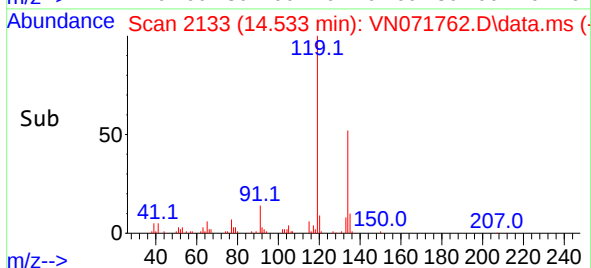
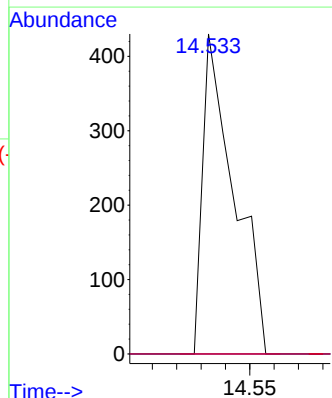
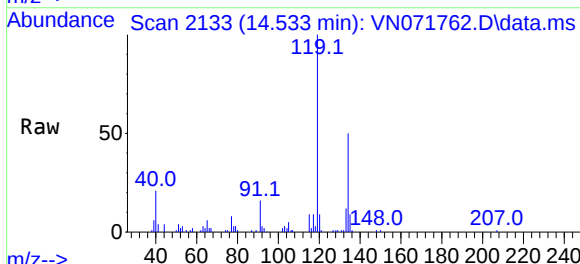
Instrument :
MSVOA_N
ClientSampleId :
MW-56

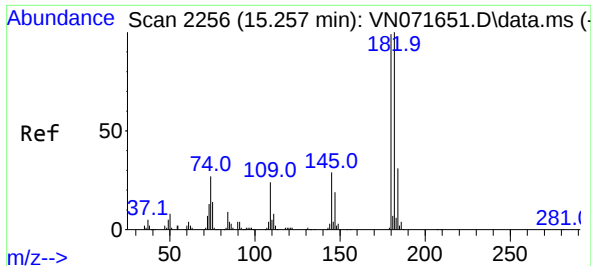
Tgt Ion:117 Resp: 1880
Ion Ratio Lower Upper
117 100
201 0.0 40.6 122.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.240 ug/l
RT: 14.533 min Scan# 2133
Delta R.T. -0.065 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion: 75 Resp: 385
Ion Ratio Lower Upper
75 100
155 0.0 44.9 134.5#
157 0.0 59.0 176.8#

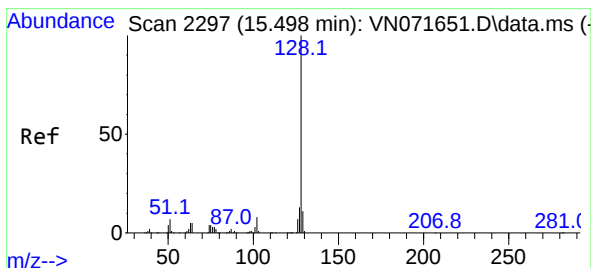
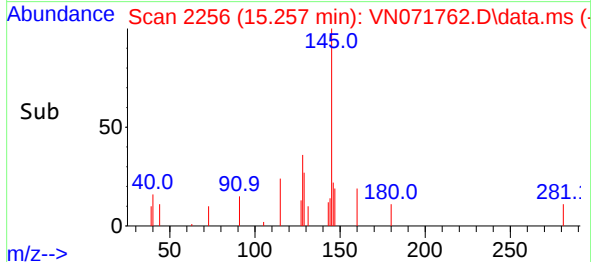
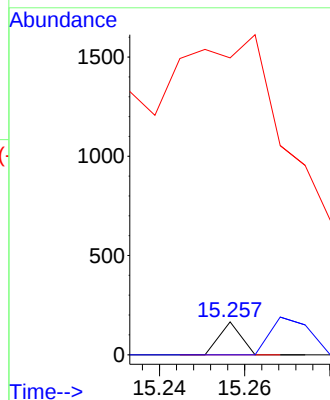
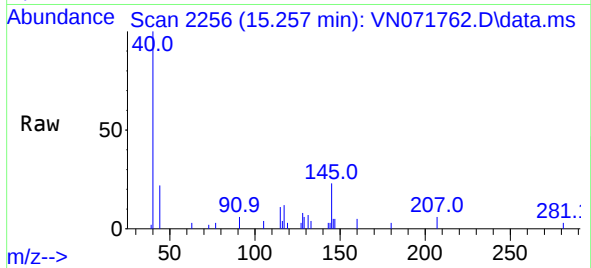




#93
1,2,4-Trichlorobenzene
Concen: 2.095 ug/l
RT: 15.257 min Scan# 2256
Delta R.T. -0.000 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

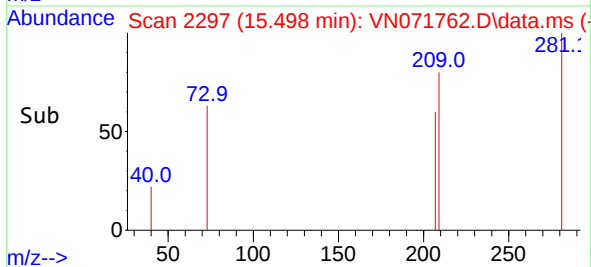
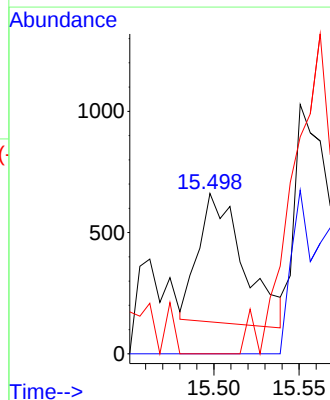
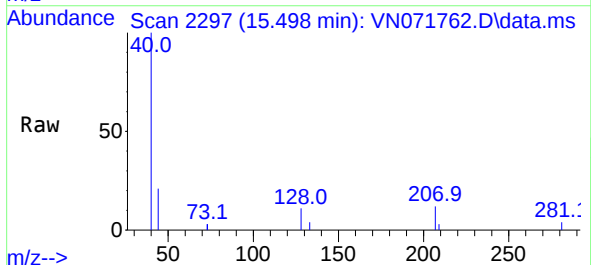
Instrument :
MSVOA_N
ClientSampleId :
MW-56

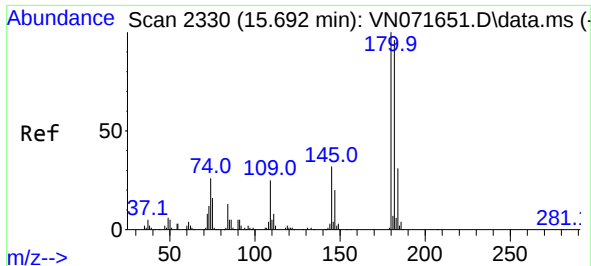
Tgt Ion:180 Resp: 59
Ion Ratio Lower Upper
180 100
182 203.4 47.5 142.5#
145 8103.4 14.5 43.5#



#95
Naphthalene
Concen: 3.857 ug/l
RT: 15.498 min Scan# 2297
Delta R.T. -0.000 min
Lab File: VN071762.D
Acq: 01 Apr 2022 18:56

Tgt Ion:128 Resp: 980
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.427 ug/l
 RT: 15.709 min Scan# 21
 Delta R.T. 0.017 min
 Lab File: VN071762.D
 Acq: 01 Apr 2022 18:56

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-56

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.8	143.3#
145	0.0	15.5	46.5#

