

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN012122\
 Data File : VN070739.D
 Acq On : 21 Jan 2022 18:32
 Operator : JC/MD
 Sample : N1224-16
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 22 05:30:30 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011822W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 18 13:32:07 2022
 Response via : Initial Calibration

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

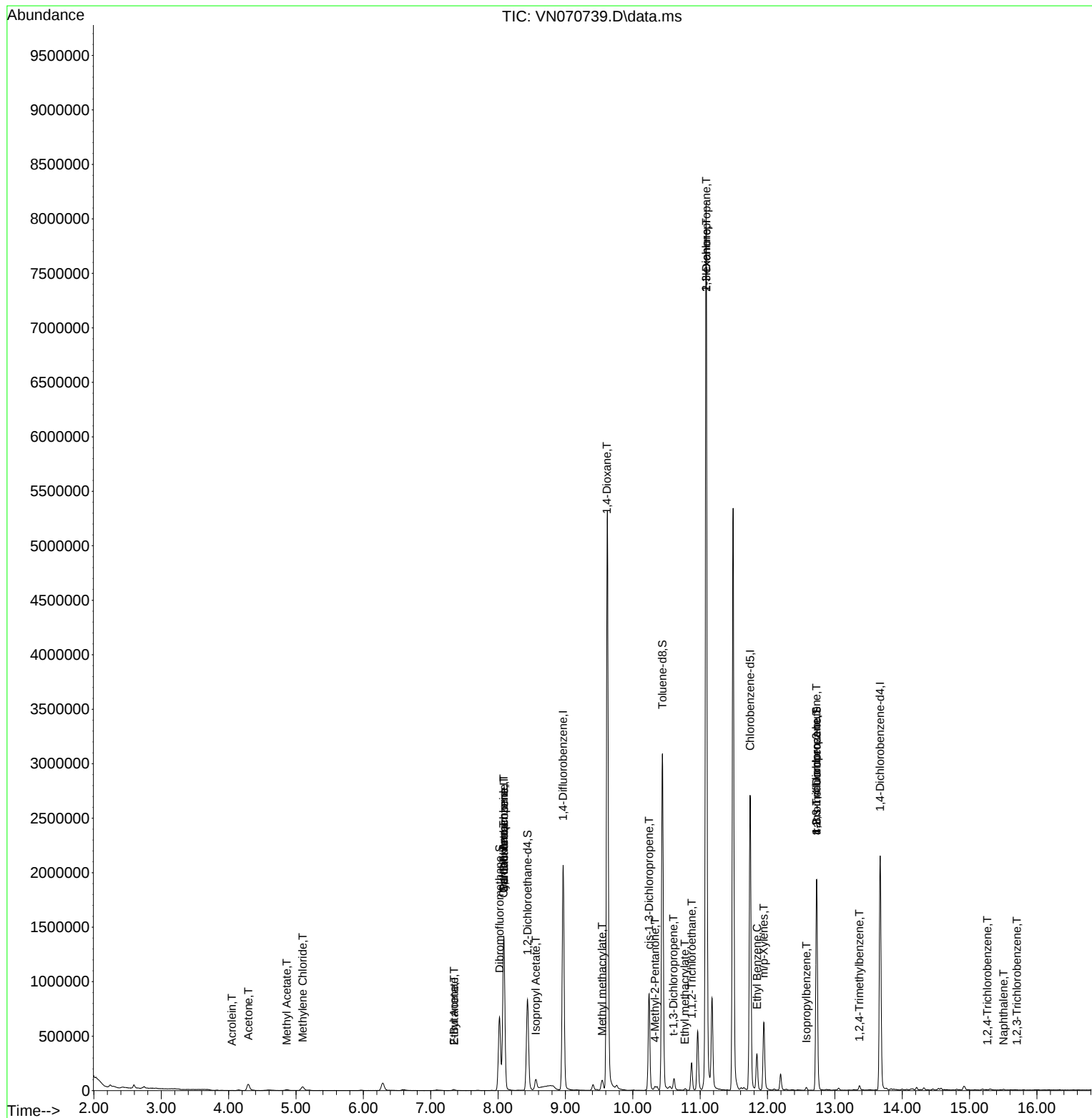
Internal Standards						
1) Pentafluorobenzene	8.086	168	1074795	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.965	114	1724370	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.741	117	1557323	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.672	152	588958	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	721821	46.861	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	93.720%		
35) Dibromofluoromethane	8.021	113	494698	46.250	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	92.500%		
50) Toluene-d8	10.440	98	2154105	47.804	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	95.600%		
62) 4-Bromofluorobenzene	12.731	95	723527	45.060	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	90.120%		
Target Compounds						
					Qvalue	
13) Acrolein	4.049	56	975	0.245	ug/l #	59
16) Acetone	4.293	43	108861	10.182	ug/l	99
18) Methyl Acetate	4.862	43	15302	0.728	ug/l #	76
20) Methylene Chloride	5.098	84	23838	1.693	ug/l	87
25) 2-Butanone	7.345	43	18093	1.345	ug/l	94
30) Chloroform	8.069	83	153	Below Cal	#	18
31) Cyclohexane	8.080	56	24950	0.920	ug/l #	9
36) 1,1-Dichloropropene	8.086	75	90357	5.018	ug/l #	42
37) Ethyl Acetate	7.345	43	18093	0.757	ug/l #	68
38) Carbon Tetrachloride	8.083	117	110073	6.871	ug/l #	17
43) Isopropyl Acetate	8.560	43	126571	3.466	ug/l #	85
48) Methyl methacrylate	9.545	41	28120	1.617	ug/l #	8
49) 1,4-Dioxane	9.617	88	482	1.845	ug/l #	1
51) 4-Methyl-2-Pentanone	10.328	43	17375	0.746	ug/l #	78
53) t-1,3-Dichloropropene	10.604	75	186	2.412	ug/l #	45
54) cis-1,3-Dichloropropene	10.242	75	152931	7.067	ug/l #	63
55) 1,1,2-Trichloroethane	10.875	97	3449	0.263	ug/l #	21
56) Ethyl methacrylate	10.773	69	2137	2.383	ug/l #	16
57) 1,3-Dichloropropane	11.089	76	82259	3.544	ug/l #	43
59) 2-Hexanone	11.089	43	1402434	82.855	ug/l #	49
67) Ethyl Benzene	11.843	91	244882	3.915	ug/l	98
68) m/p-Xylenes	11.945	106	184118	8.090	ug/l	93
73) Isopropylbenzene	12.578	105	17133	0.307	ug/l	99
76) 1,2,3-Trichloropropane	12.728	75	388991	24.902	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.728	75	388991	74.188	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.364	105	22540	0.520	ug/l	95
93) 1,2,4-Trichlorobenzene	15.265	180	585	3.475	ug/l #	81
95) Naphthalene	15.504	128	7040	5.156	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.702	180	595	3.269	ug/l	69

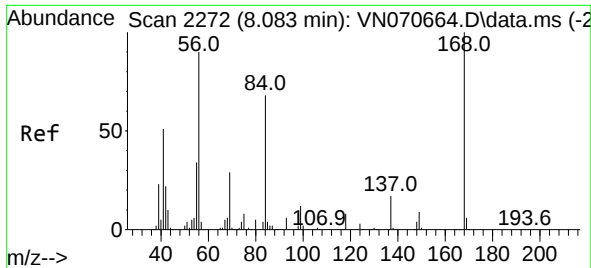
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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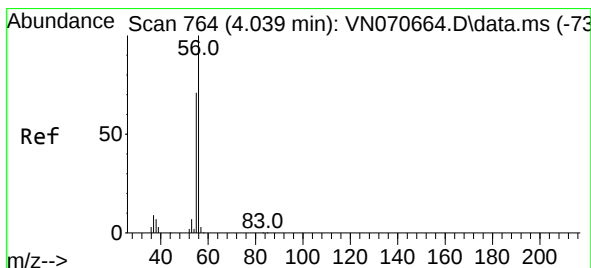
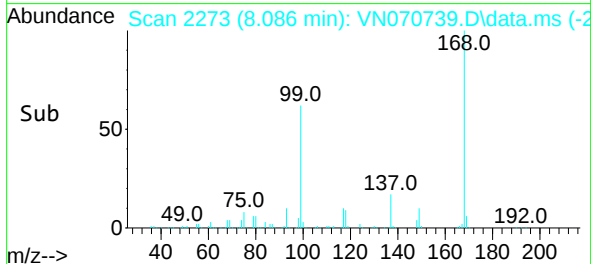
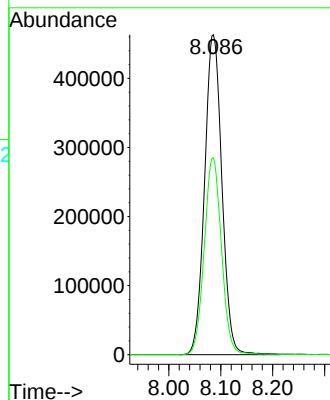
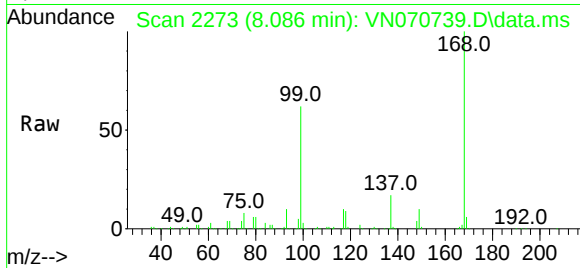




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. 0.003 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

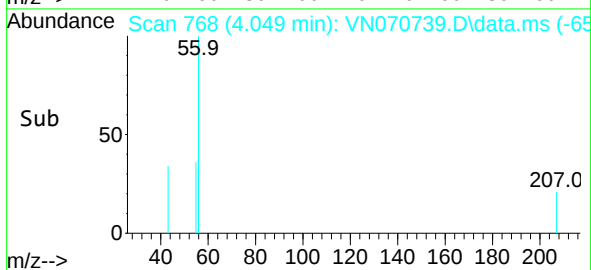
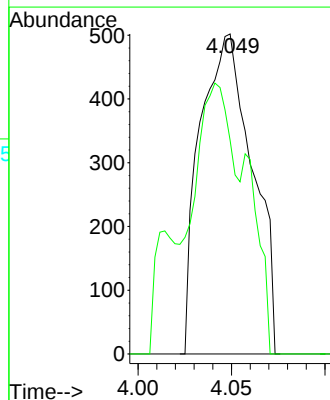
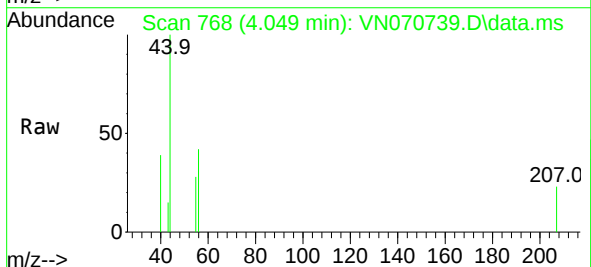
Instrument :
MSVOA_N
ClientSampleId :

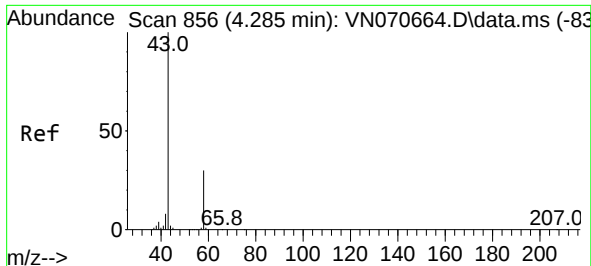
Tgt Ion:168 Resp: 1074795
Ion Ratio Lower Upper
168 100
99 61.5 41.3 61.9



#13
Acrolein
Concen: 0.245 ug/l
RT: 4.049 min Scan# 768
Delta R.T. 0.010 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

Tgt Ion: 56 Resp: 975
Ion Ratio Lower Upper
56 100
55 37.0 56.6 85.0#

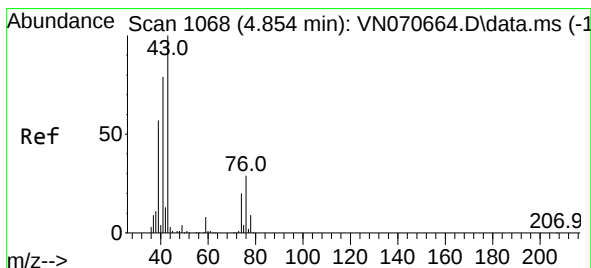
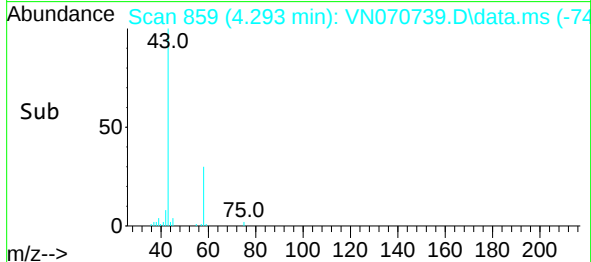
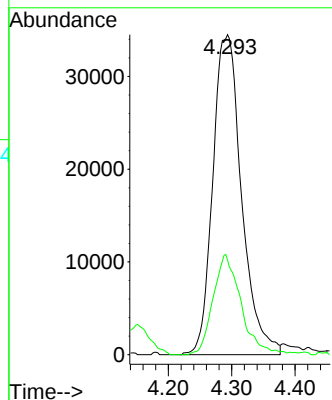
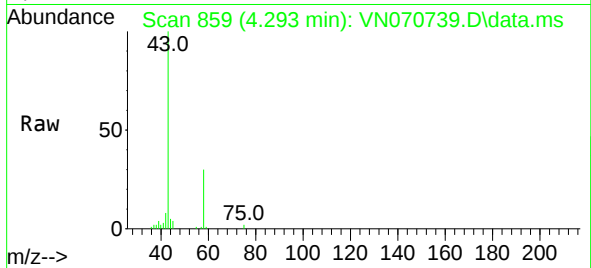




#16
Acetone
Concen: 10.182 ug/l
RT: 4.293 min Scan# 856
Delta R.T. 0.008 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

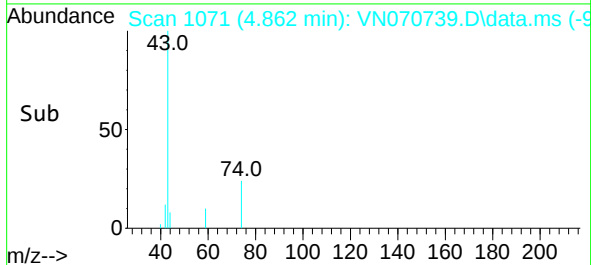
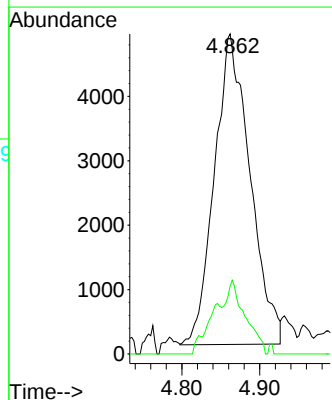
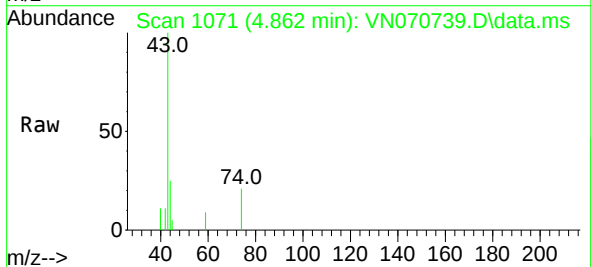
Instrument :
MSVOA_N
ClientSampleId :

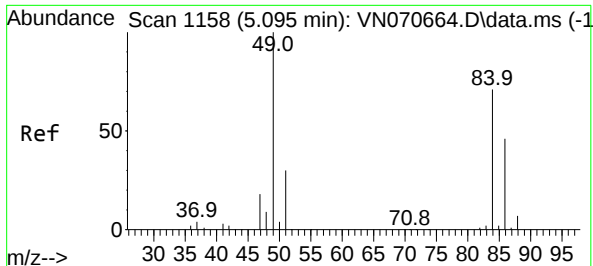
Tgt Ion: 43 Resp: 108861
Ion Ratio Lower Upper
43 100
58 29.6 23.1 34.7



#18
Methyl Acetate
Concen: 0.728 ug/l
RT: 4.862 min Scan# 1071
Delta R.T. 0.008 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

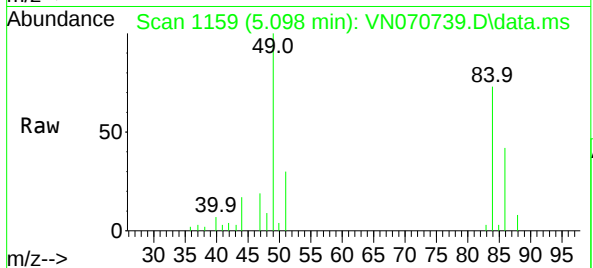
Tgt Ion: 43 Resp: 15302
Ion Ratio Lower Upper
43 100
74 12.4 19.4 29.2#



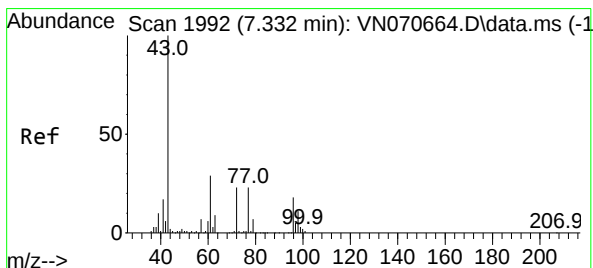
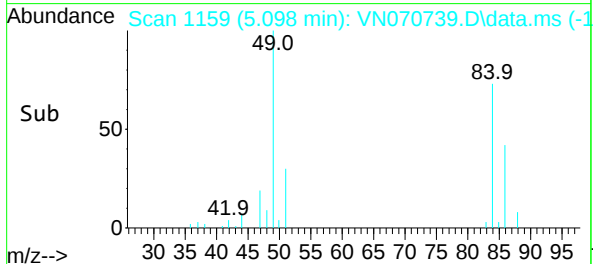
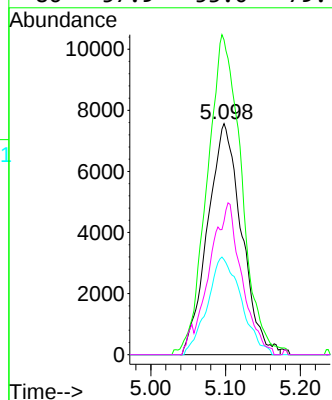


#20
Methylene Chloride
Concen: 1.693 ug/l
RT: 5.098 min Scan# 1158
Delta R.T. 0.003 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

Instrument :
MSVOA_N
ClientSampleId :

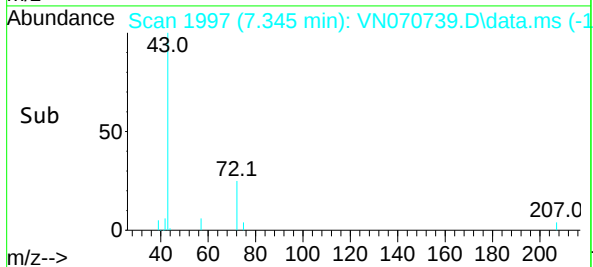
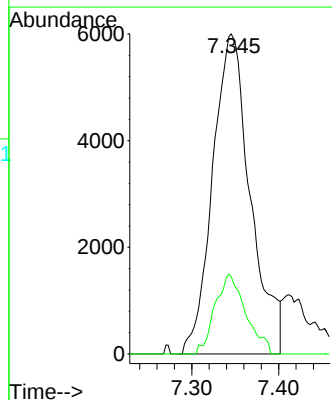
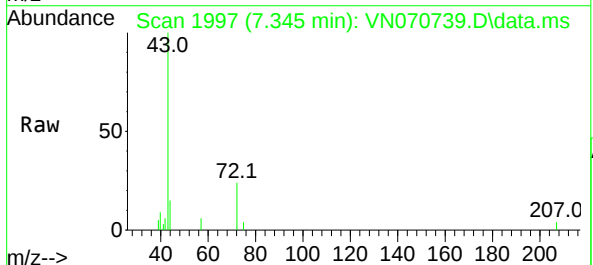


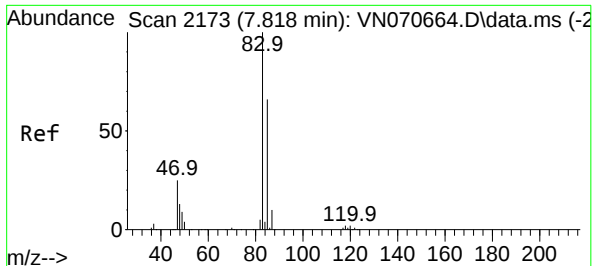
Tgt Ion:	84	Resp:	23838
Ion	Ratio	Lower	Upper
84	100		
49	133.8	93.5	140.3
51	41.1	29.4	44.2
86	57.9	53.0	79.4



#25
2-Butanone
Concen: 1.345 ug/l
RT: 7.345 min Scan# 1997
Delta R.T. 0.013 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

Tgt Ion:	43	Resp:	18093
Ion	Ratio	Lower	Upper
43	100		
72	24.1	21.7	32.5

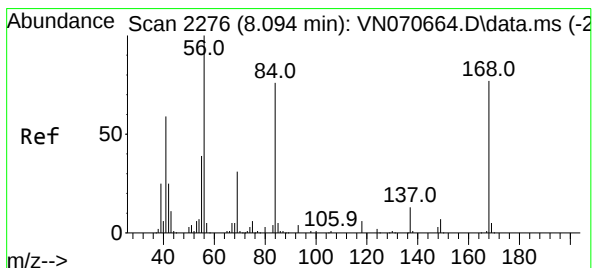
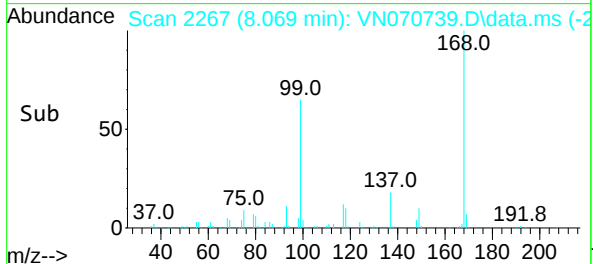
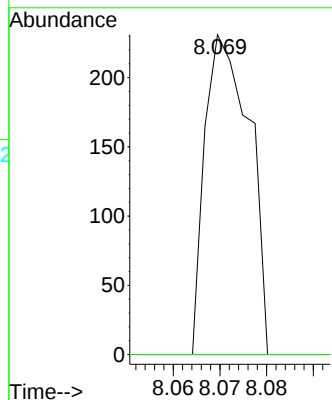
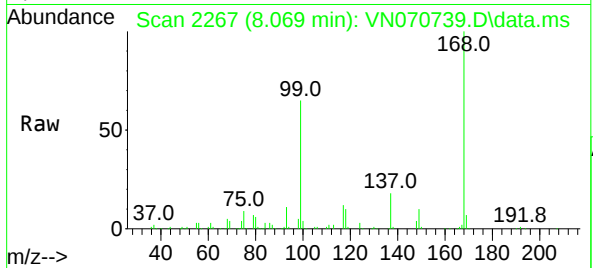




#30
Chloroform
Concen: Below Cal
RT: 8.069 min Scan# 2173
Delta R.T. 0.251 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

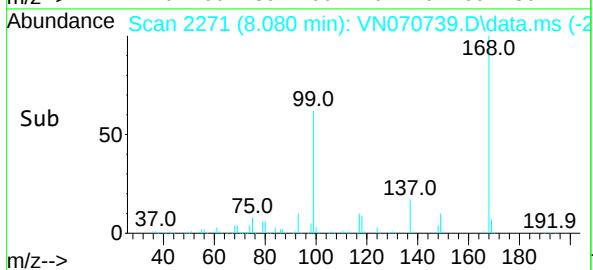
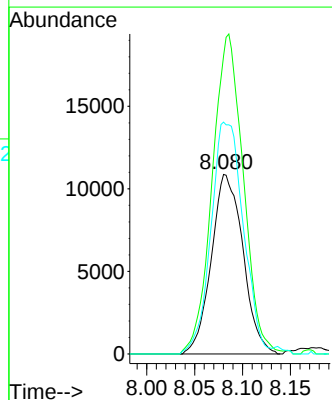
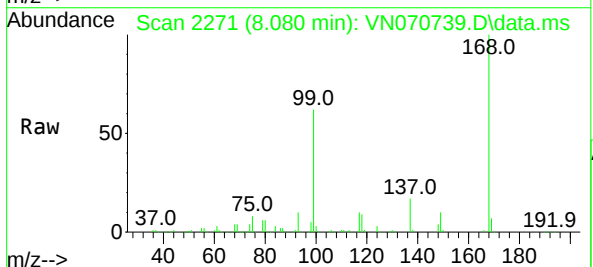
Instrument :
MSVOA_N
ClientSampleId :

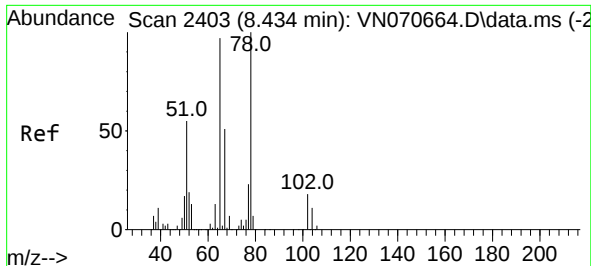
Tgt Ion: 83 Resp: 153
Ion Ratio Lower Upper
83 100
85 0.0 51.9 77.9#



#31
Cyclohexane
Concen: 0.920 ug/l
RT: 8.080 min Scan# 2271
Delta R.T. -0.014 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

Tgt Ion: 56 Resp: 24950
Ion Ratio Lower Upper
56 100
69 166.0 27.1 40.7#
84 129.1 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 46.861 ug/l

RT: 8.437 min Scan# 24

Delta R.T. 0.003 min

Lab File: VN070739.D

Acq: 21 Jan 2022 18:32

Instrument :

MSVOA_N

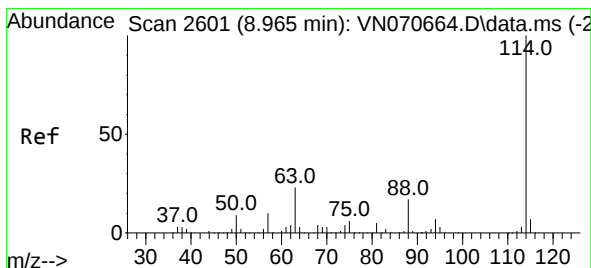
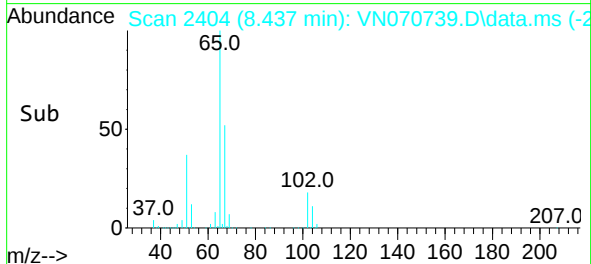
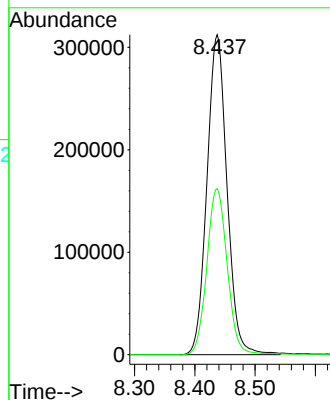
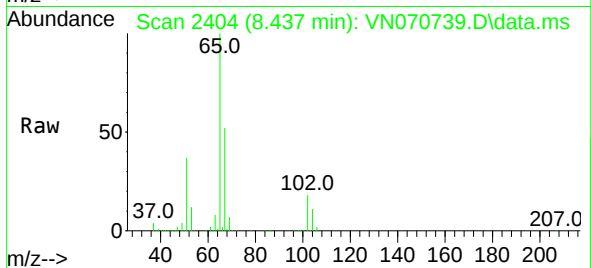
ClientSampleId :

Tgt Ion: 65 Resp: 721821

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.965 min Scan# 2601

Delta R.T. 0.000 min

Lab File: VN070739.D

Acq: 21 Jan 2022 18:32

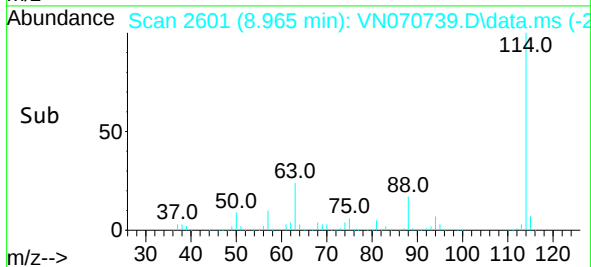
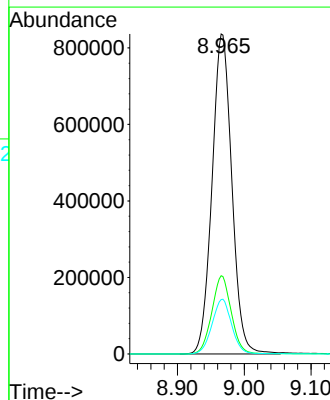
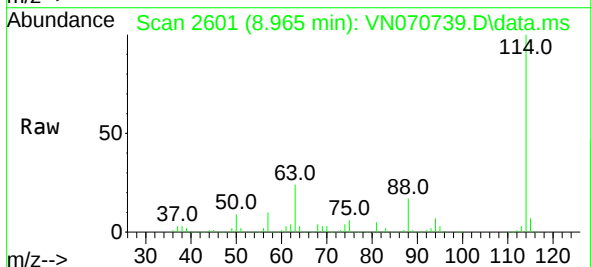
Tgt Ion: 114 Resp: 1724370

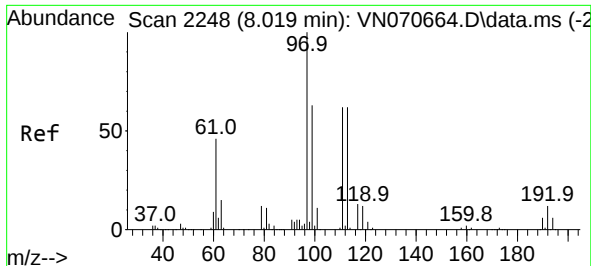
Ion Ratio Lower Upper

114 100

63 24.4 0.0 37.8

88 17.0 0.0 27.4

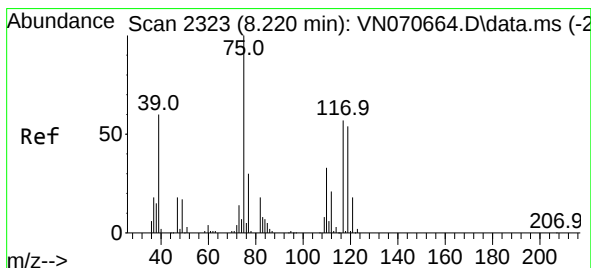
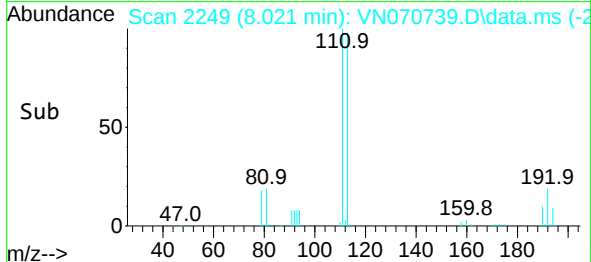
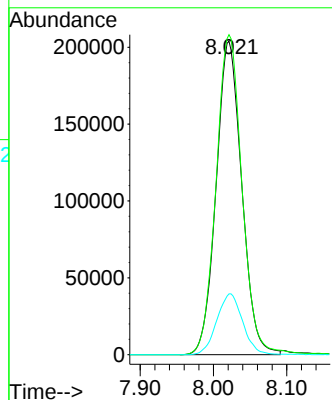
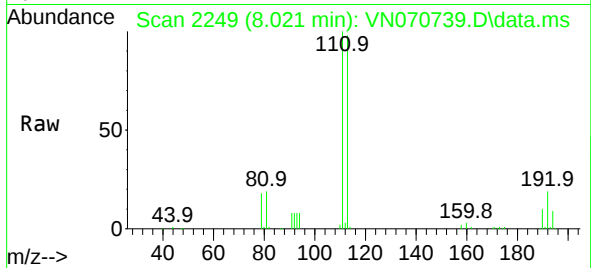




#35
 Dibromofluoromethane
 Concen: 46.250 ug/l
 RT: 8.021 min Scan# 21
 Delta R.T. 0.002 min
 Lab File: VN070739.D
 Acq: 21 Jan 2022 18:32

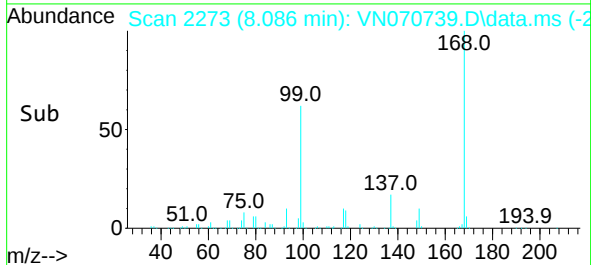
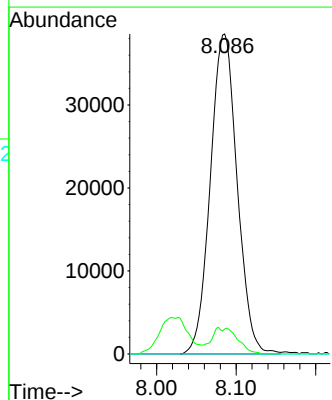
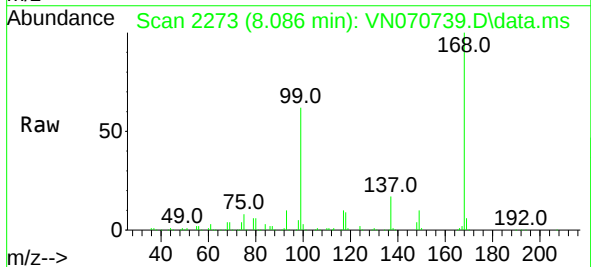
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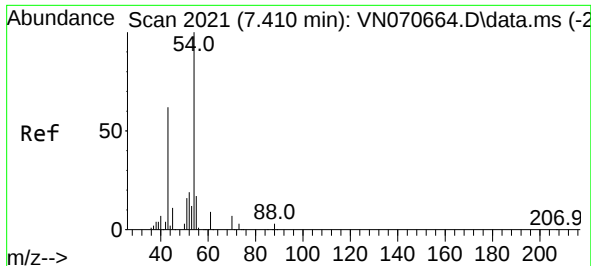
Tgt Ion:113 Resp: 494698
 Ion Ratio Lower Upper
 113 100
 111 103.6 82.2 123.2
 192 19.7 16.9 25.3



#36
 1,1-Dichloropropene
 Concen: 5.018 ug/l
 RT: 8.086 min Scan# 2273
 Delta R.T. -0.134 min
 Lab File: VN070739.D
 Acq: 21 Jan 2022 18:32

Tgt Ion: 75 Resp: 90357
 Ion Ratio Lower Upper
 75 100
 110 1.6 18.4 55.2#
 77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 0.757 ug/l

RT: 7.345 min Scan# 19

Delta R.T. -0.065 min

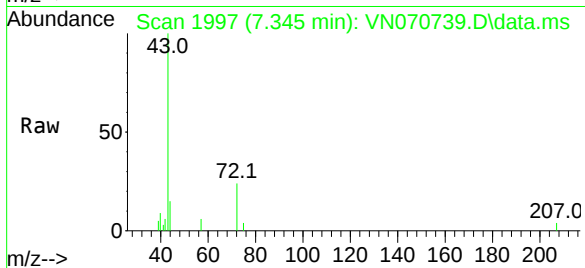
Lab File: VN070739.D

Acq: 21 Jan 2022 18:32

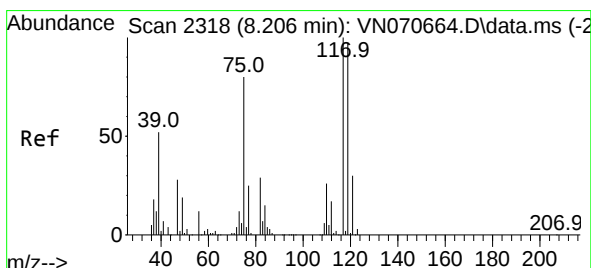
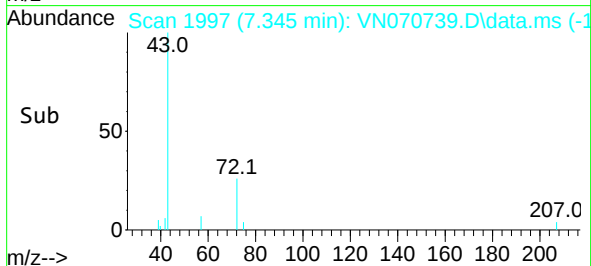
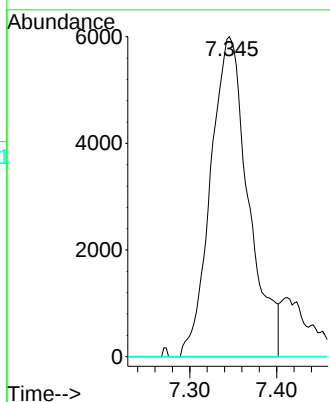
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43	Resp: 18093
Ion Ratio	Lower Upper
43	100
61	0.0 11.5 17.3#
70	0.0 7.9 11.9#



#38

Carbon Tetrachloride

Concen: 6.871 ug/l

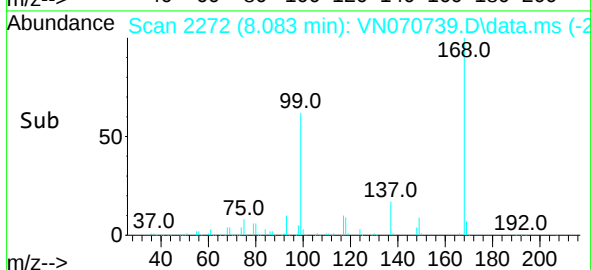
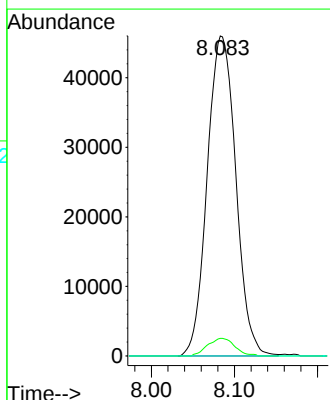
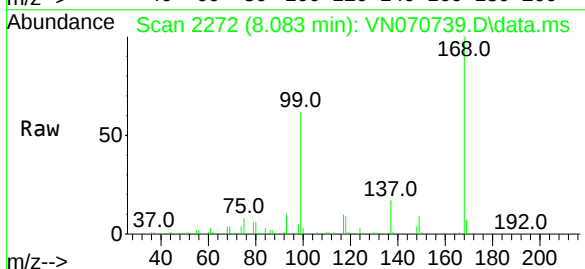
RT: 8.083 min Scan# 2272

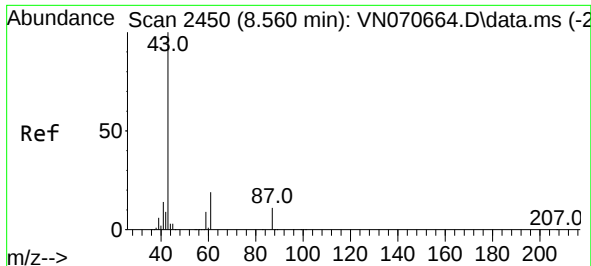
Delta R.T. -0.123 min

Lab File: VN070739.D

Acq: 21 Jan 2022 18:32

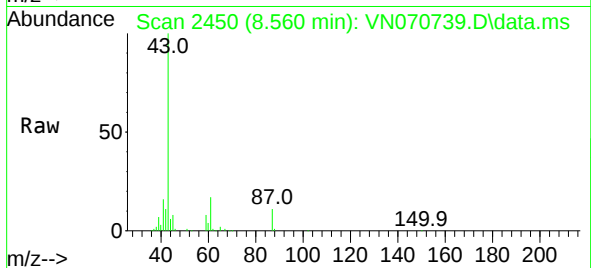
Tgt Ion: 117	Resp: 110073
Ion Ratio	Lower Upper
117	100
119	5.5 76.1 114.1#
121	0.0 24.2 36.2#



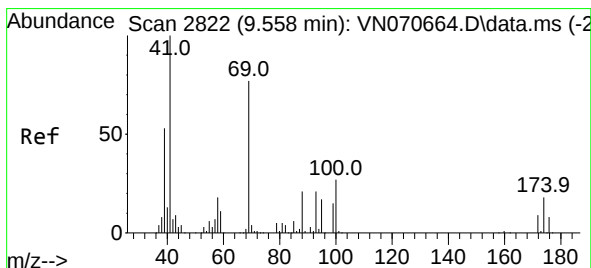
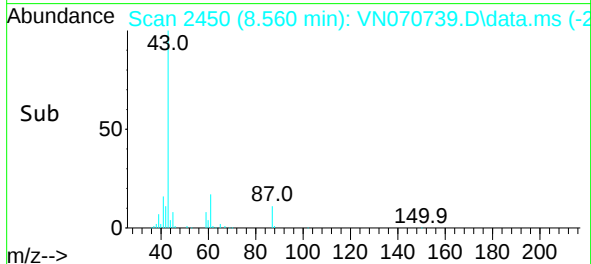
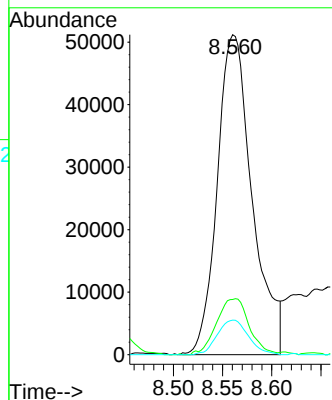


#43
Isopropyl Acetate
Concen: 3.466 ug/l
RT: 8.560 min Scan# 24
Delta R.T. 0.000 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

Instrument :
MSVOA_N
ClientSampleId :

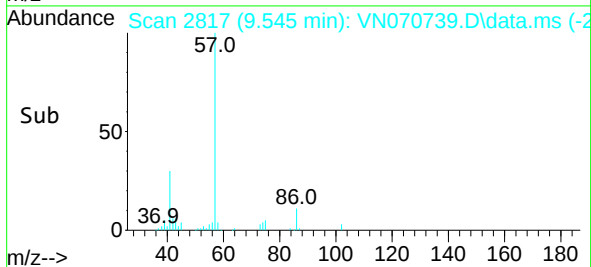
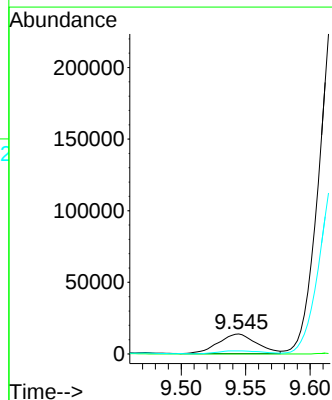
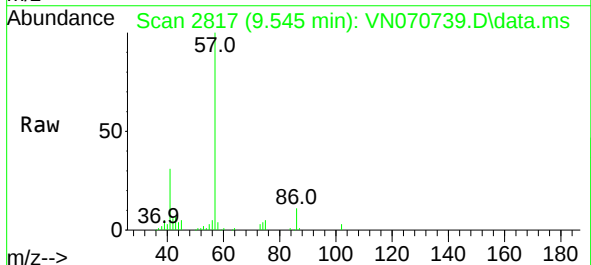


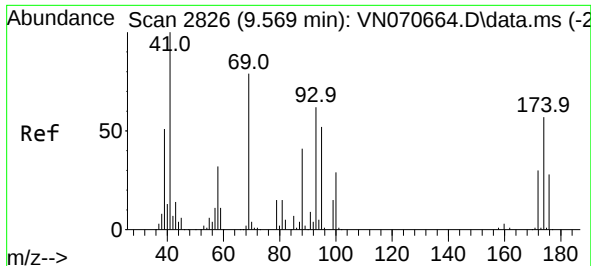
Tgt Ion: 43 Resp: 126571
Ion Ratio Lower Upper
43 100
61 16.3 20.4 30.6#
87 9.6 11.2 16.8#



#48
Methyl methacrylate
Concen: 1.617 ug/l
RT: 9.545 min Scan# 2817
Delta R.T. -0.013 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

Tgt Ion: 41 Resp: 28120
Ion Ratio Lower Upper
41 100
69 0.0 72.4 108.6#
39 0.0 58.4 87.6#





#49

1,4-Dioxane

Concen: 1.845 ug/l

RT: 9.617 min Scan# 21

Delta R.T. 0.048 min

Lab File: VN070739.D

Acq: 21 Jan 2022 18:32

Instrument :

MSVOA_N

ClientSampleId :

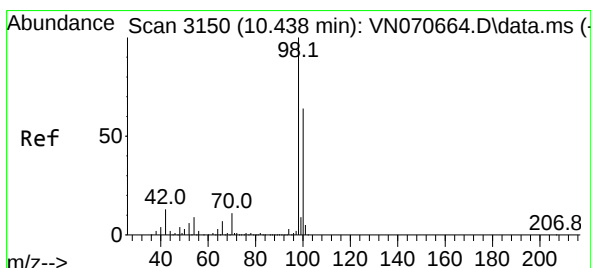
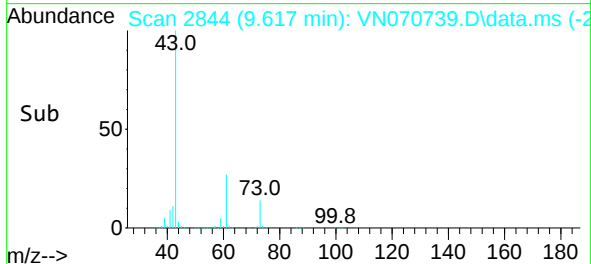
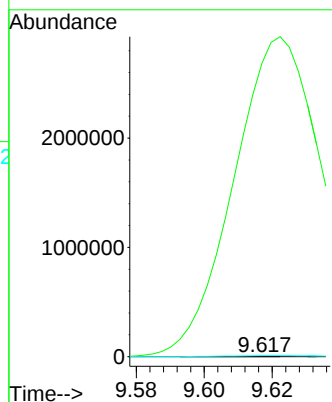
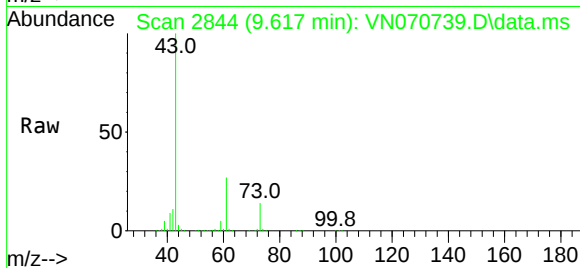
Tgt Ion: 88 Resp: 482

Ion Ratio Lower Upper

88 100

43 1160144.8 23.4 35.2#

58 4263.7 50.6 75.8#



#50

Toluene-d8

Concen: 47.804 ug/l

RT: 10.440 min Scan# 3151

Delta R.T. 0.002 min

Lab File: VN070739.D

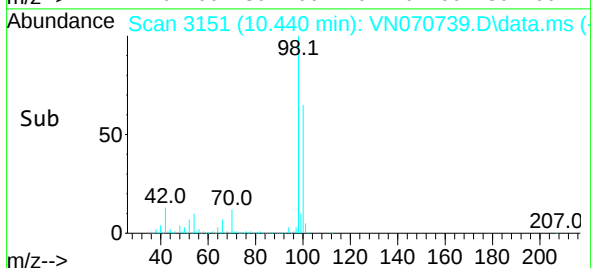
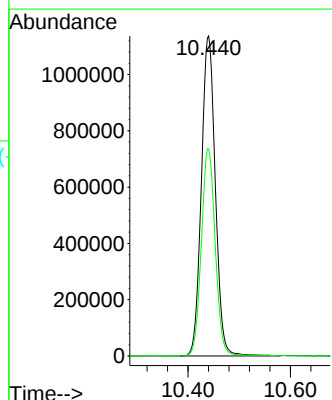
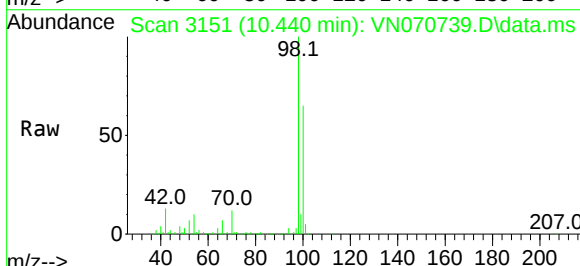
Acq: 21 Jan 2022 18:32

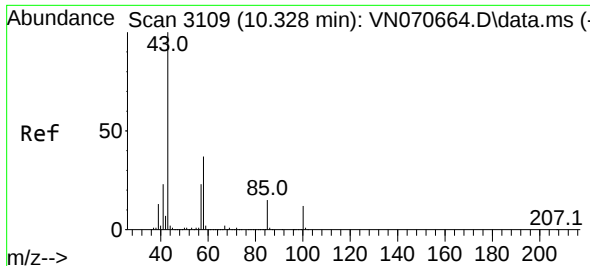
Tgt Ion: 98 Resp: 2154105

Ion Ratio Lower Upper

98 100

100 64.3 50.4 75.6

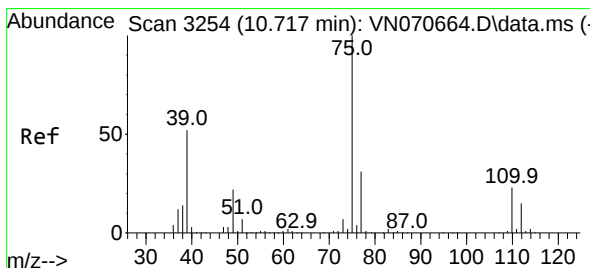
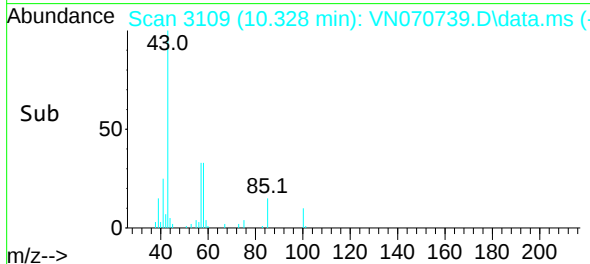
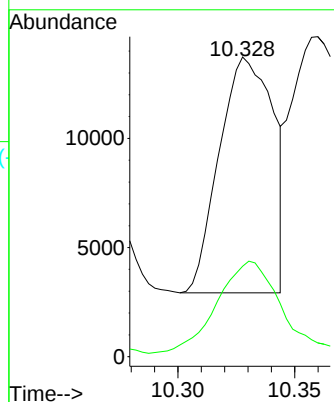
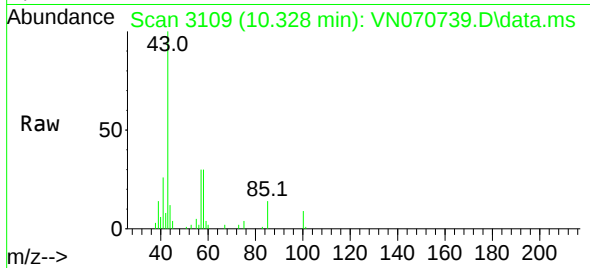




#51
4-Methyl-2-Pentanone
Concen: 0.746 ug/l
RT: 10.328 min Scan# 3109
Delta R.T. -0.000 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

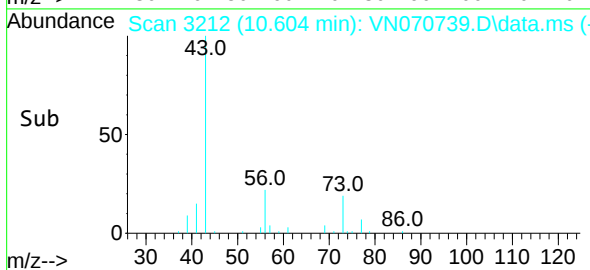
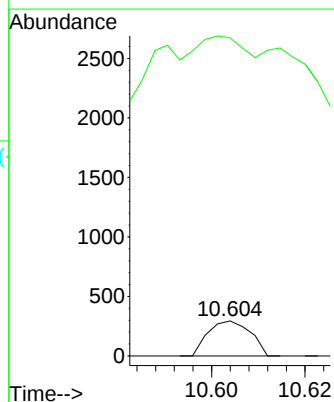
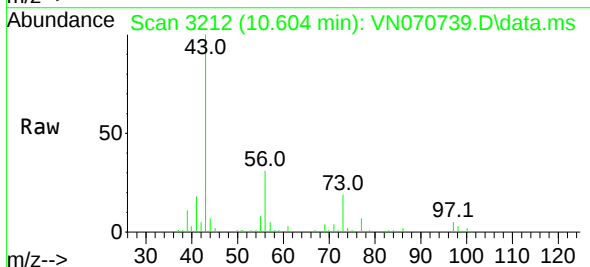
Instrument :
MSVOA_N
ClientSampleId :

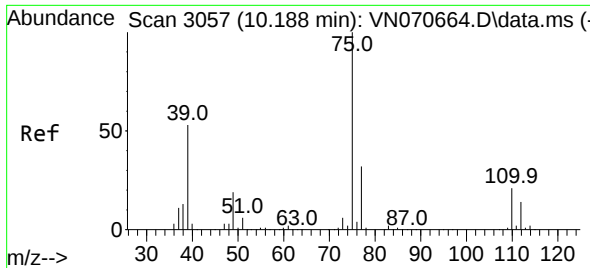
Tgt Ion: 43 Resp: 17375
Ion Ratio Lower Upper
43 100
58 51.2 30.4 45.6#



#53
t-1,3-Dichloropropene
Concen: 2.412 ug/l
RT: 10.604 min Scan# 3212
Delta R.T. -0.113 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

Tgt Ion: 75 Resp: 186
Ion Ratio Lower Upper
75 100
77 62.9 25.6 38.4#

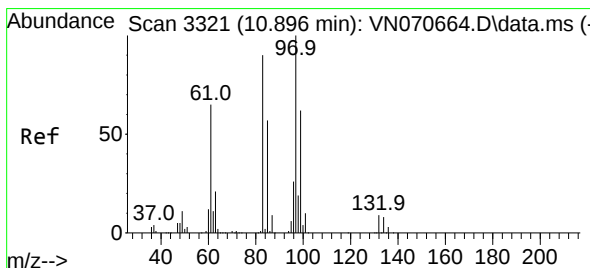
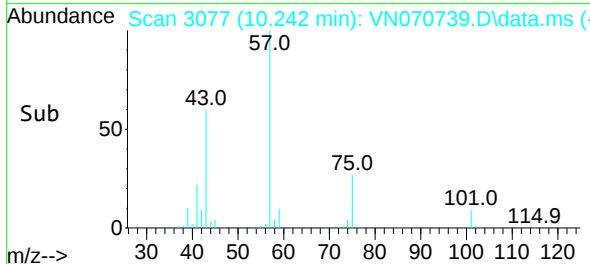
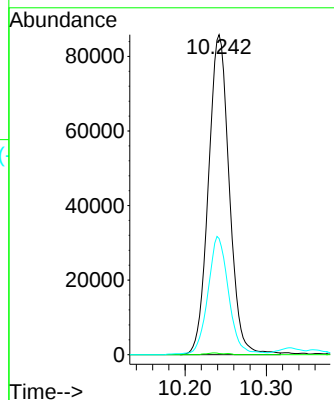
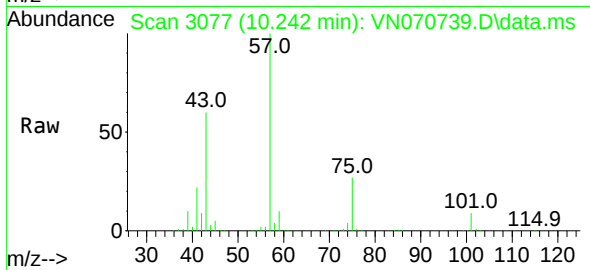




#54
 cis-1,3-Dichloropropene
 Concen: 7.067 ug/l
 RT: 10.242 min Scan# 3057
 Delta R.T. 0.054 min
 Lab File: VN070739.D
 Acq: 21 Jan 2022 18:32

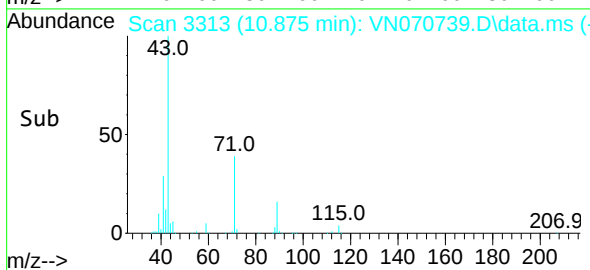
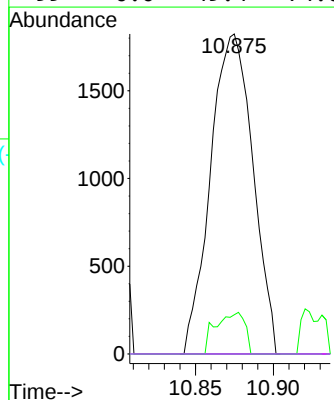
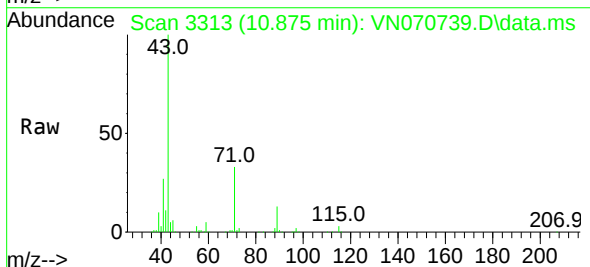
Instrument :
 MSVOA_N
 ClientSampleId :

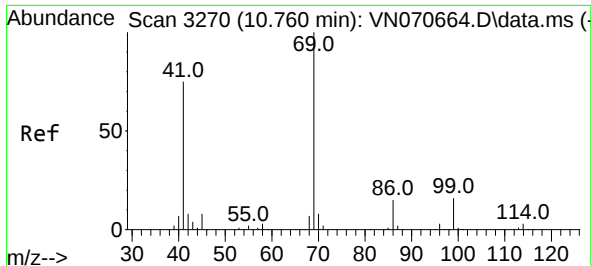
Tgt Ion: 75 Resp: 152931
 Ion Ratio Lower Upper
 75 100
 77 0.4 26.4 39.6#
 39 36.0 42.5 63.7#



#55
 1,1,2-Trichloroethane
 Concen: 0.263 ug/l
 RT: 10.875 min Scan# 3313
 Delta R.T. -0.021 min
 Lab File: VN070739.D
 Acq: 21 Jan 2022 18:32

Tgt Ion: 97 Resp: 3449
 Ion Ratio Lower Upper
 97 100
 83 12.2 67.8 101.6#
 85 0.0 45.4 68.2#
 99 0.0 49.4 74.0#

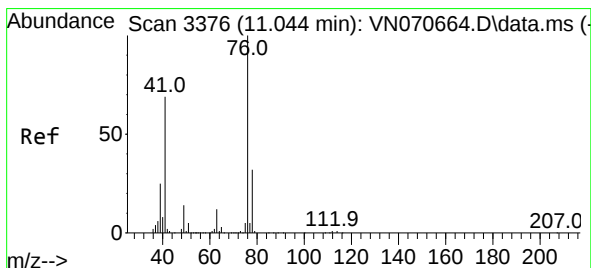
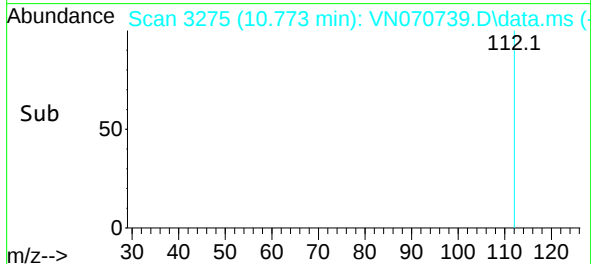
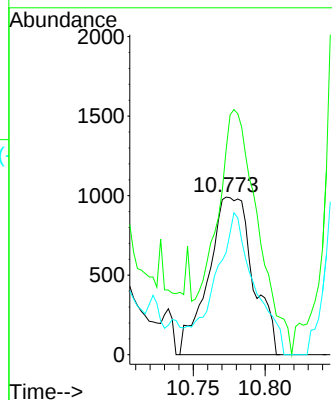
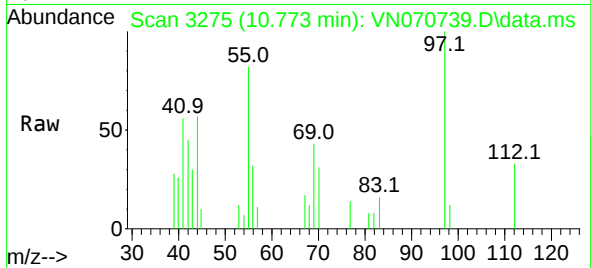




#56
Ethyl methacrylate
Concen: 2.383 ug/l
RT: 10.773 min Scan# 31
Delta R.T. 0.013 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

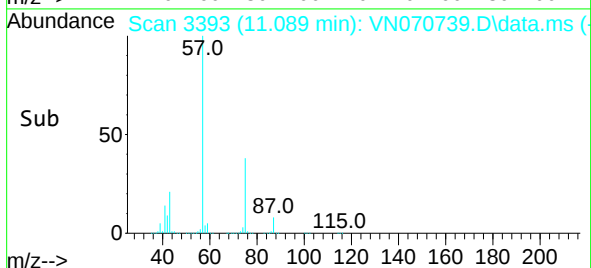
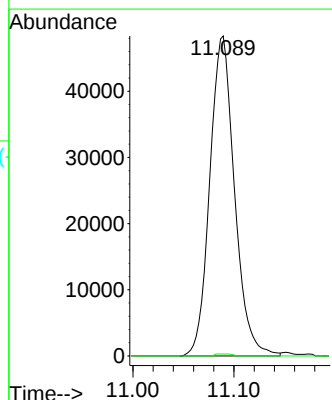
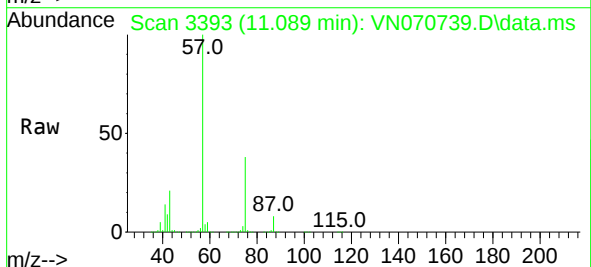
Instrument :
MSVOA_N
ClientSampleId :

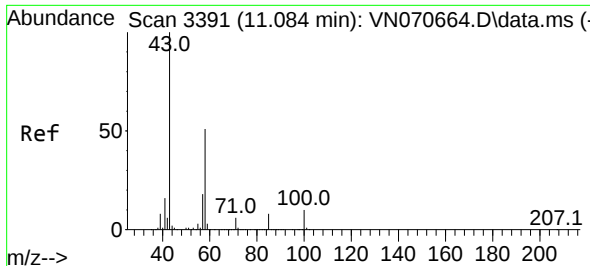
Tgt Ion: 69 Resp: 2137
Ion Ratio Lower Upper
69 100
41 146.0 51.4 77.0#
39 78.1 34.6 52.0#



#57
1,3-Dichloropropane
Concen: 3.544 ug/l
RT: 11.089 min Scan# 3393
Delta R.T. 0.045 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

Tgt Ion: 76 Resp: 82259
Ion Ratio Lower Upper
76 100
78 0.4 25.7 38.5#

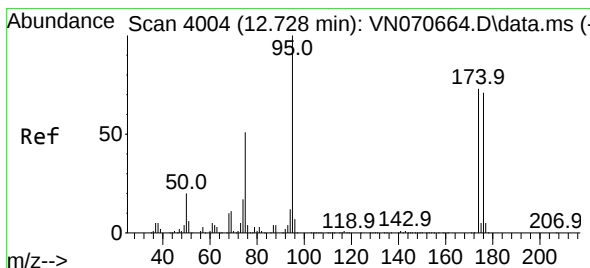
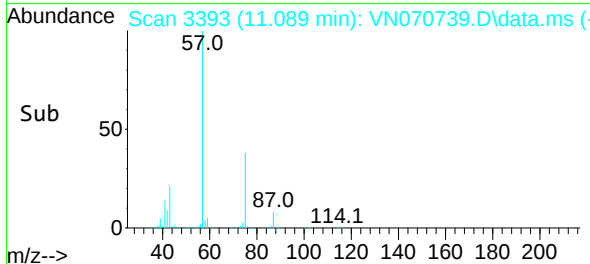
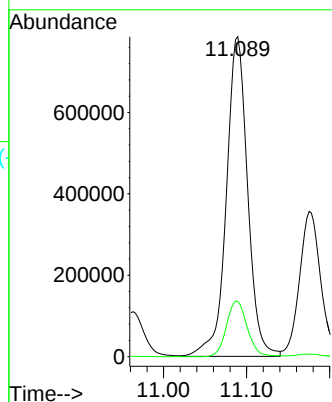
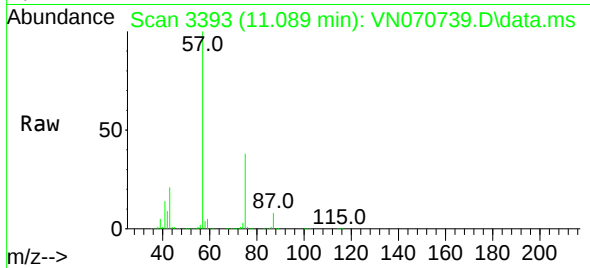




#59
2-Hexanone
Concen: 82.855 ug/l
RT: 11.089 min Scan# 31
Delta R.T. 0.005 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

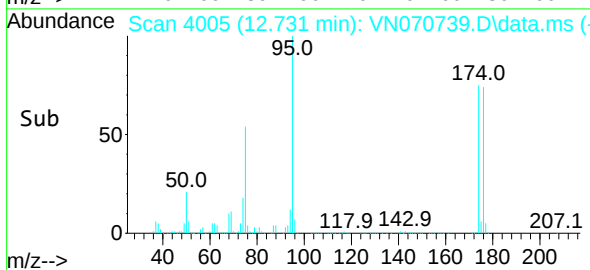
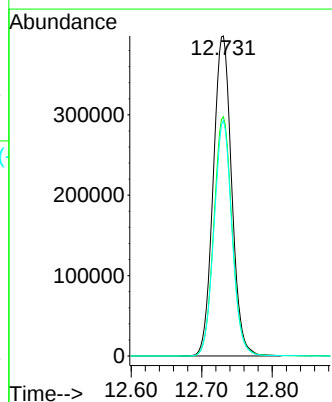
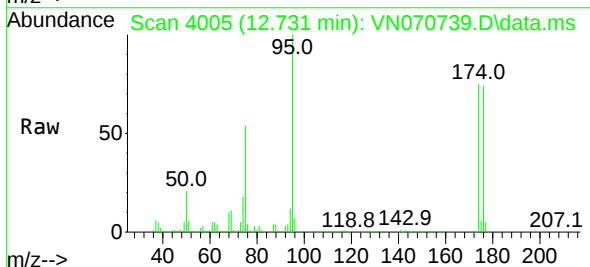
Instrument :
MSVOA_N
ClientSampleId :

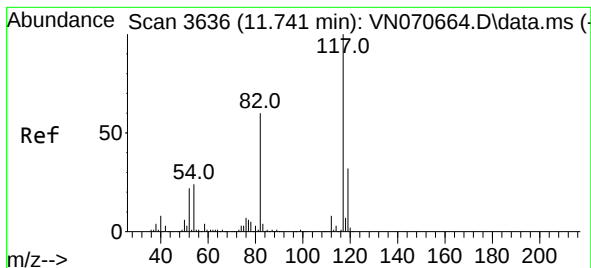
Tgt Ion: 43 Resp: 1402434
Ion Ratio Lower Upper
43 100
58 17.1 26.9 80.7#



#62
4-Bromofluorobenzene
Concen: 45.060 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.003 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

Tgt Ion: 95 Resp: 723527
Ion Ratio Lower Upper
95 100
174 74.1 0.0 187.2
176 71.4 0.0 181.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.741 min Scan# 3636

Delta R.T. 0.000 min

Lab File: VN070739.D

Acq: 21 Jan 2022 18:32

Instrument :

MSVOA_N

ClientSampleId :

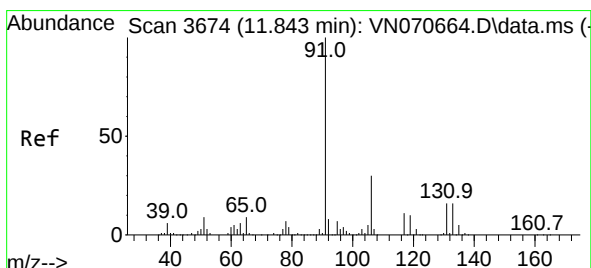
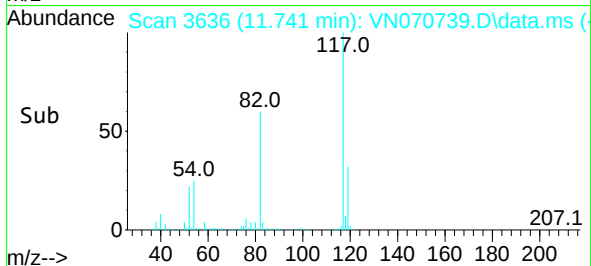
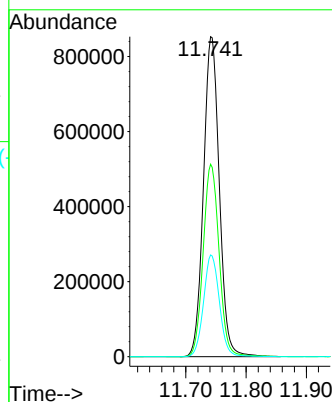
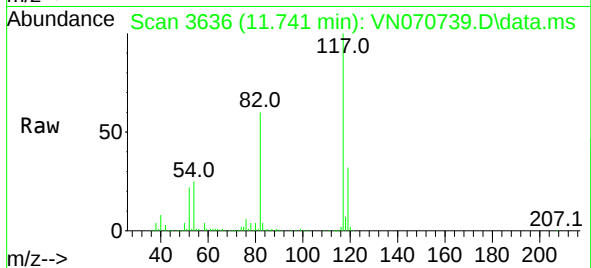
Tgt Ion:117 Resp: 1557323

Ion Ratio Lower Upper

117 100

82 60.1 42.4 63.6

119 31.8 25.4 38.2



#67

Ethyl Benzene

Concen: 3.915 ug/l

RT: 11.843 min Scan# 3674

Delta R.T. 0.000 min

Lab File: VN070739.D

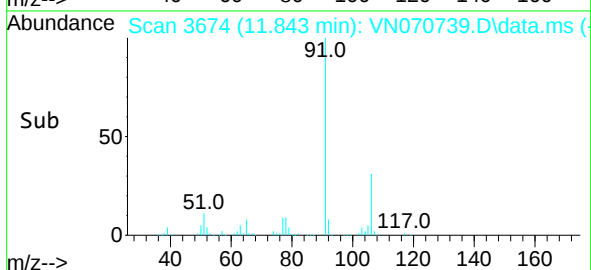
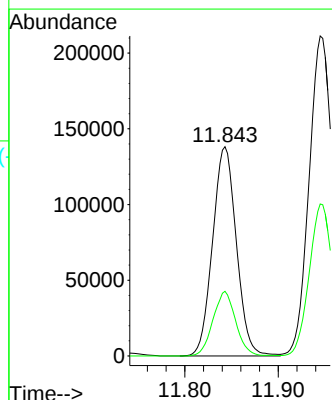
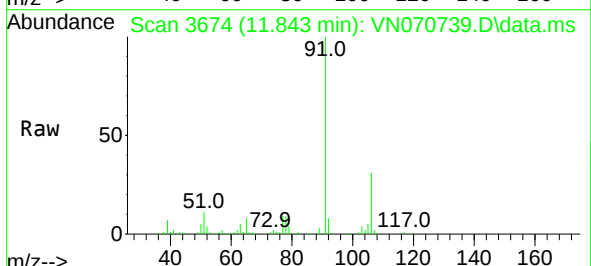
Acq: 21 Jan 2022 18:32

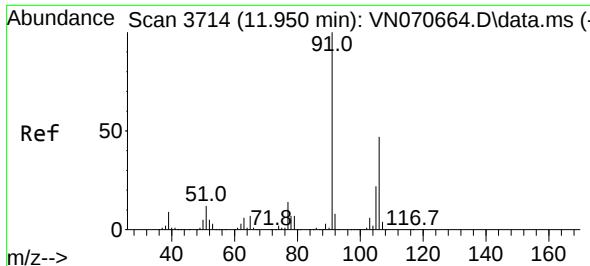
Tgt Ion: 91 Resp: 244882

Ion Ratio Lower Upper

91 100

106 30.9 25.7 38.5

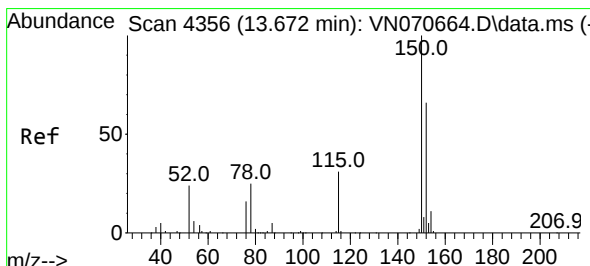
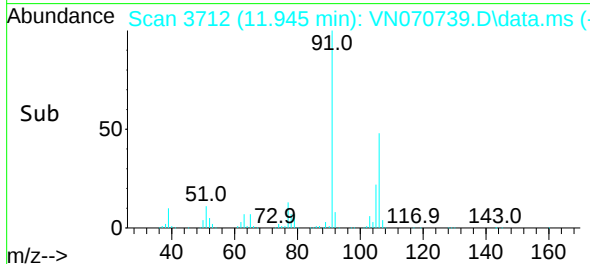
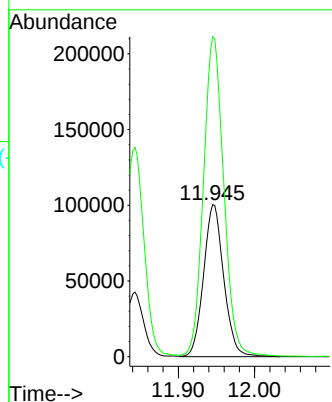
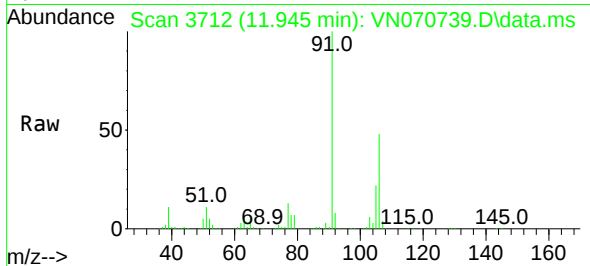




#68
m/p-Xylenes
Concen: 8.090 ug/l
RT: 11.945 min Scan# 31
Delta R.T. -0.005 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

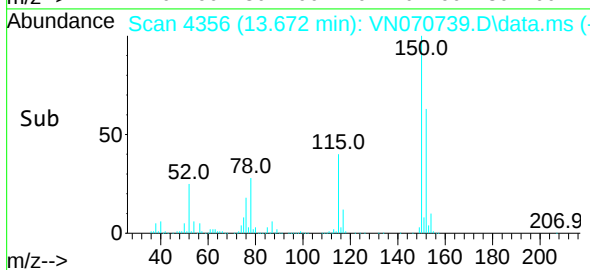
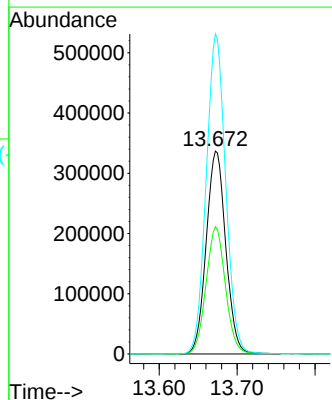
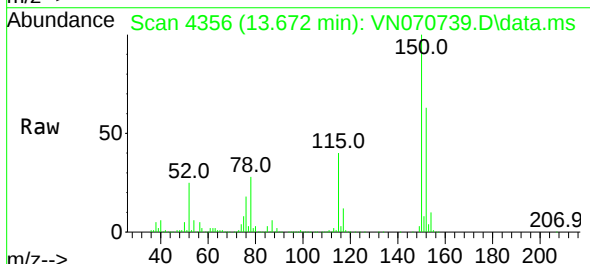
Instrument :
MSVOA_N
ClientSampleId :

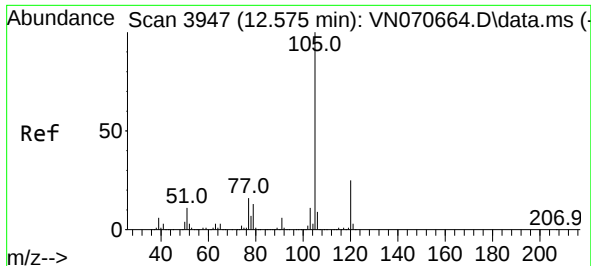
Tgt Ion:106 Resp: 184118
Ion Ratio Lower Upper
106 100
91 211.4 160.6 240.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.672 min Scan# 4356
Delta R.T. 0.000 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

Tgt Ion:152 Resp: 588958
Ion Ratio Lower Upper
152 100
115 62.2 27.5 82.5
150 156.7 0.0 344.4

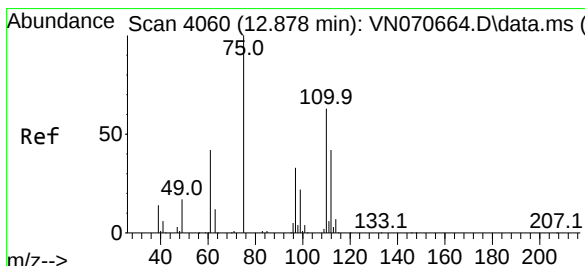
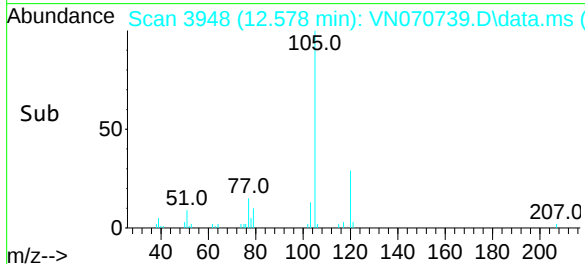
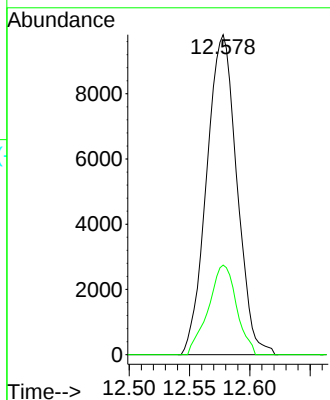
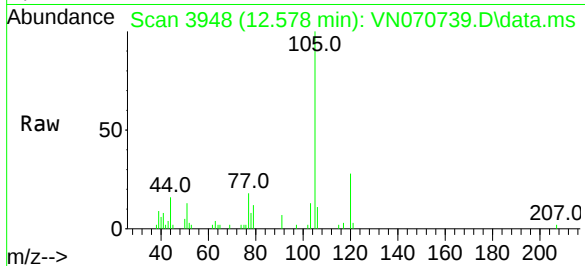




#73
Isopropylbenzene
Concen: 0.307 ug/l
RT: 12.578 min Scan# 3947
Delta R.T. 0.003 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

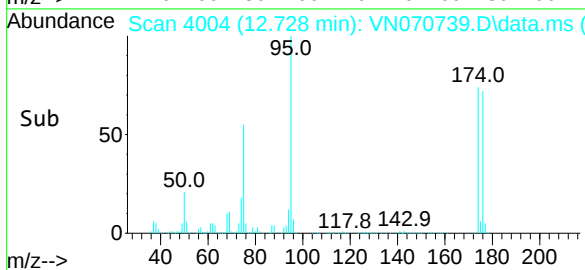
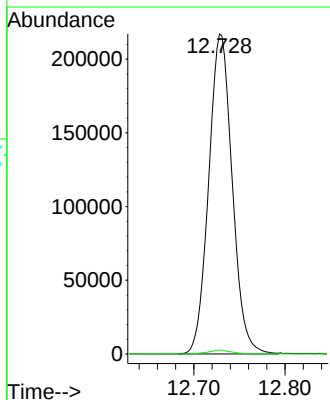
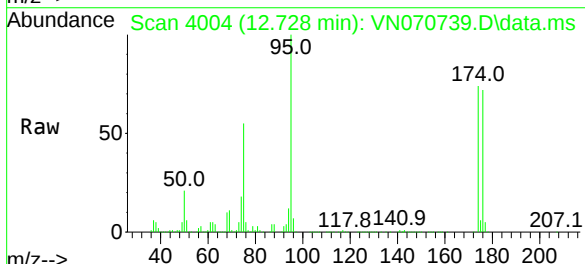
Instrument :
MSVOA_N
ClientSampleId :

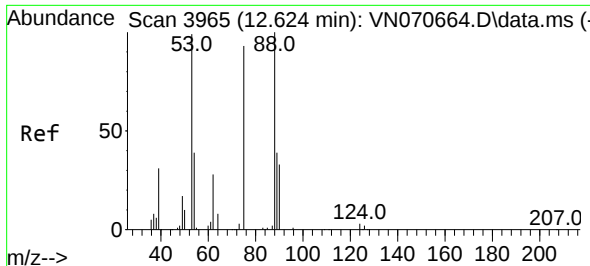
Tgt Ion:105 Resp: 17133
Ion Ratio Lower Upper
105 100
120 26.0 13.4 40.1



#76
1,2,3-Trichloropropane
Concen: 24.902 ug/l
RT: 12.728 min Scan# 4004
Delta R.T. -0.150 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

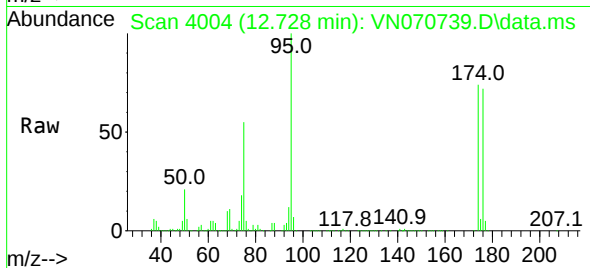
Tgt Ion: 75 Resp: 388991
Ion Ratio Lower Upper
75 100
77 1.2 82.6 247.8#



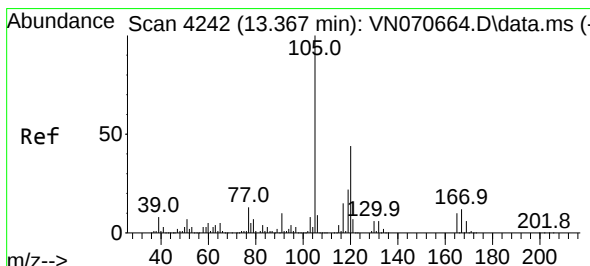
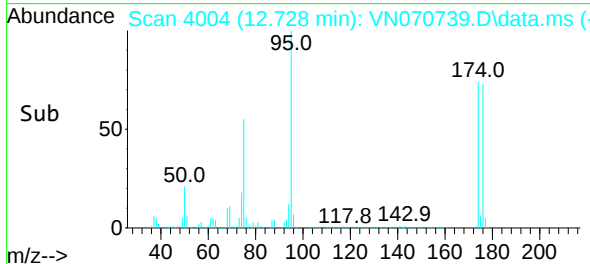
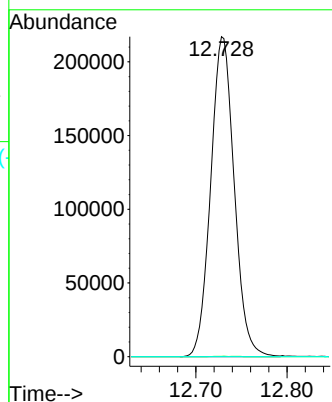


#81
trans-1,4-Dichloro-2-butene
Concen: 74.188 ug/l
RT: 12.728 min Scan# 4004
Delta R.T. 0.104 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

Instrument :
MSVOA_N
ClientSampleId :

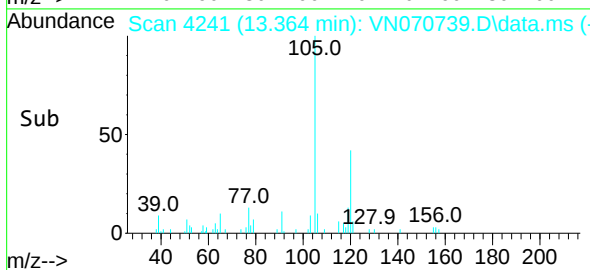
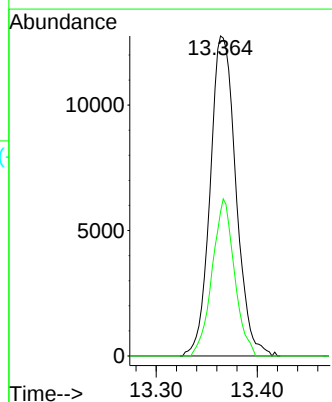
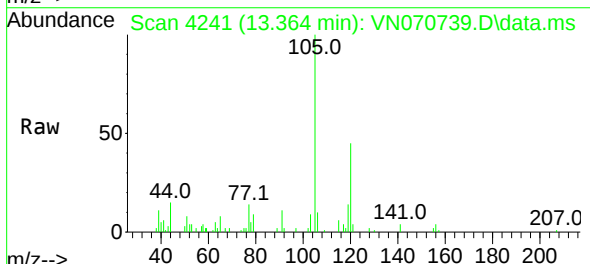


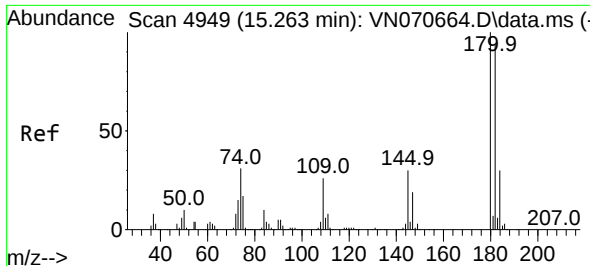
Tgt Ion: 75 Resp: 388991
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#84
1,2,4-Trimethylbenzene
Concen: 0.520 ug/l
RT: 13.364 min Scan# 4241
Delta R.T. -0.003 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

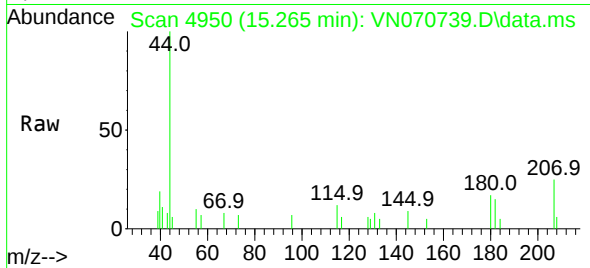
Tgt Ion: 105 Resp: 22540
Ion Ratio Lower Upper
105 100
120 42.5 22.8 68.4



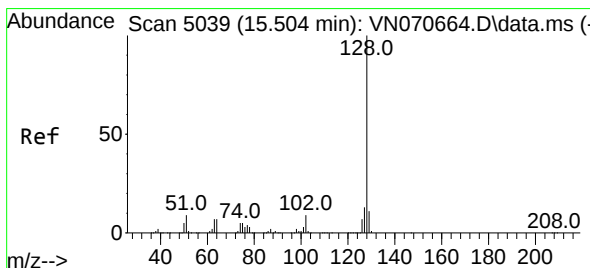
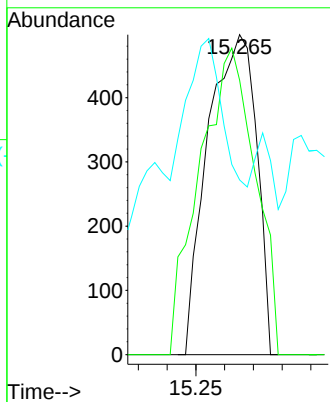
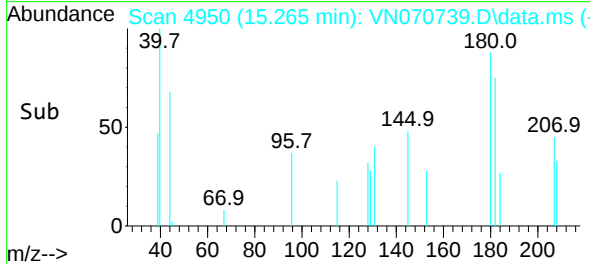


#93
1,2,4-Trichlorobenzene
Concen: 3.475 ug/l
RT: 15.265 min Scan# 4949
Delta R.T. 0.002 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32

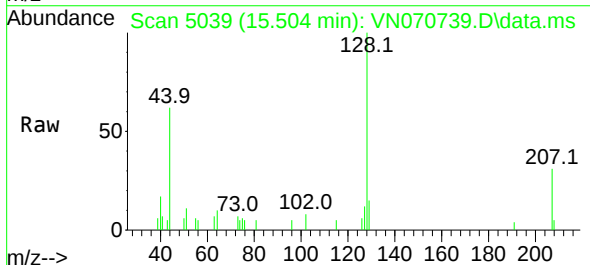
Instrument :
MSVOA_N
ClientSampleId :



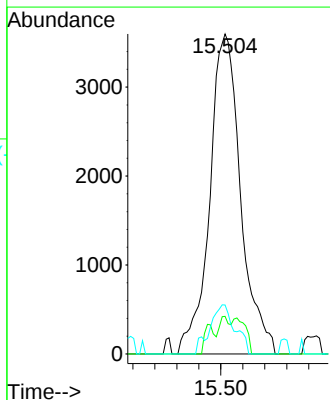
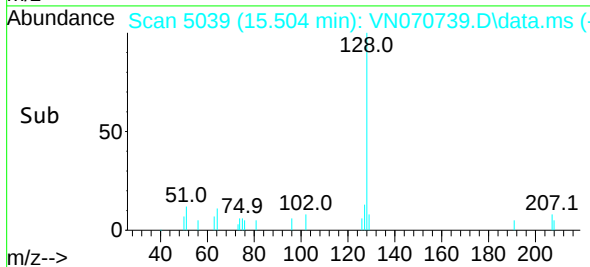
Tgt Ion:180 Resp: 585
Ion Ratio Lower Upper
180 100
182 109.6 48.3 144.9
145 7.5 14.5 43.5#

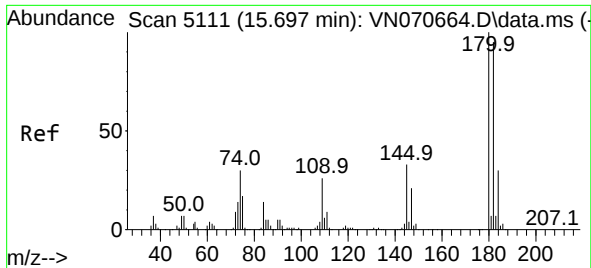


#95
Naphthalene
Concen: 5.156 ug/l
RT: 15.504 min Scan# 5039
Delta R.T. -0.000 min
Lab File: VN070739.D
Acq: 21 Jan 2022 18:32



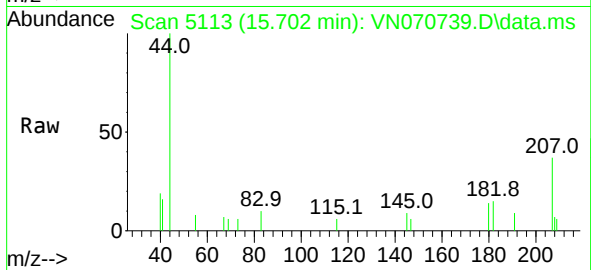
Tgt Ion:128 Resp: 7040
Ion Ratio Lower Upper
128 100
127 2.0 10.5 15.7#
129 12.4 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 3.269 ug/l
 RT: 15.702 min Scan# 51
 Delta R.T. 0.005 min
 Lab File: VN070739.D
 Acq: 21 Jan 2022 18:32

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	595
Ion	Ratio	Lower	Upper
180	100		
182	125.5	47.4	142.2
145	45.0	15.0	45.1

