

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011022\
 Data File : VN070552.D
 Acq On : 10 Jan 2022 19:00
 Operator : JC/MD
 Sample : N1015-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 11 06:06:34 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122721W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 27 18:47:12 2021
 Response via : Initial Calibration

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

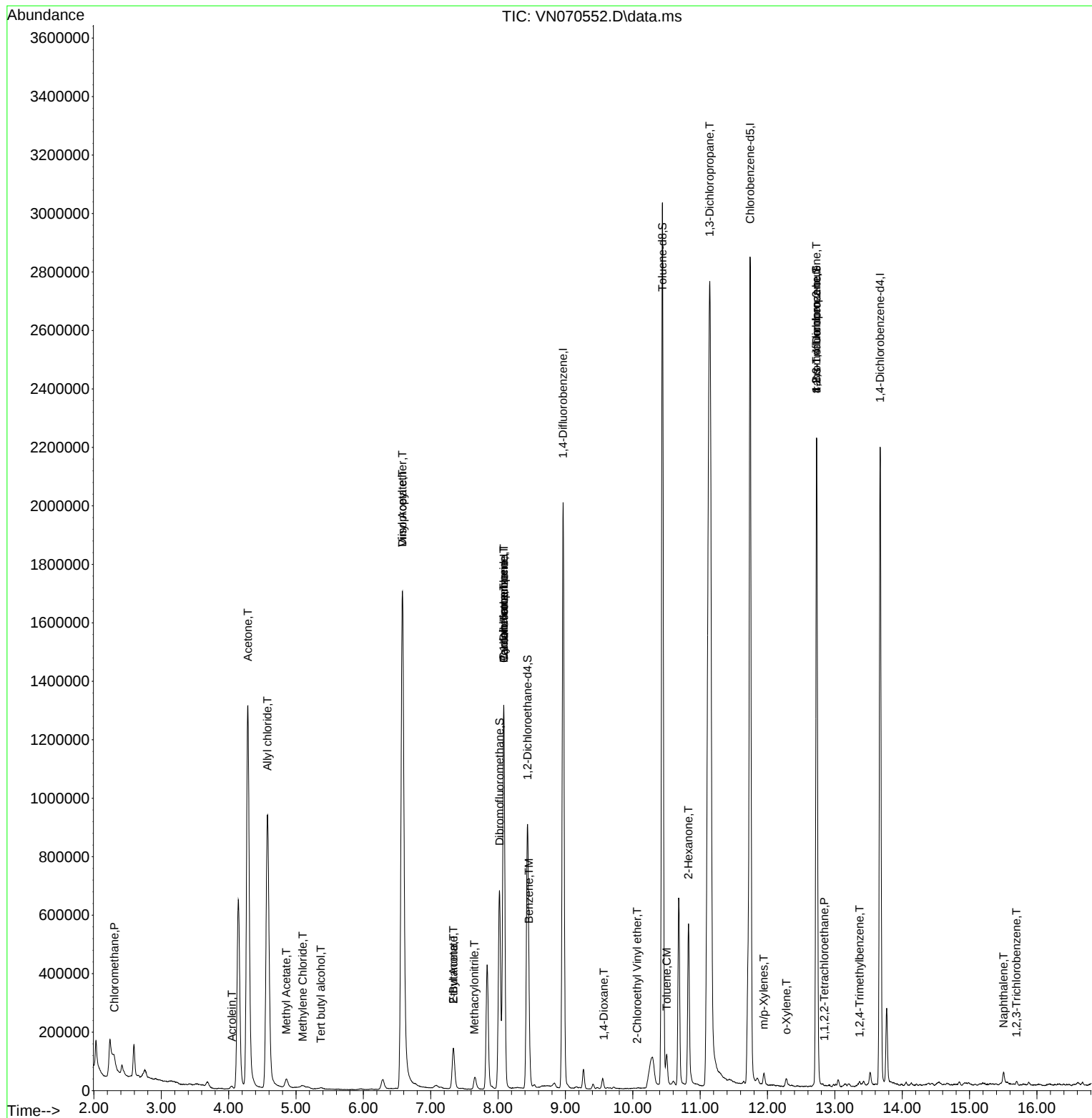
Internal Standards						
1) Pentafluorobenzene	8.086	168	1014733	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.965	114	1716087	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	1546932	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.672	152	596258	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	717200	49.157	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.320%		
35) Dibromofluoromethane	8.021	113	503797	48.520	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	97.040%		
50) Toluene-d8	10.440	98	2101981	49.556	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	99.120%		
62) 4-Bromofluorobenzene	12.728	95	816717	53.311	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	106.620%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.303	50	5934	0.379	ug/l	94
11) Tert butyl alcohol	5.369	59	2983	1.228	ug/l #	92
13) Acrolein	4.049	56	12974	6.582	ug/l	85
14) Allyl chloride	4.575	41	139977	5.974	ug/l #	77
16) Acetone	4.285	43	2498541	263.806	ug/l	98
18) Methyl Acetate	4.857	43	67809	2.475	ug/l	91
20) Methylene Chloride	5.098	84	2756	0.210	ug/l #	82
22) Diisopropyl ether	6.578	45	151813	3.326	ug/l #	1
23) Vinyl Acetate	6.578	43	347604	9.817	ug/l #	72
25) 2-Butanone	7.335	43	247480	20.752	ug/l	90
31) Cyclohexane	8.083	56	22174	0.963	ug/l #	1
36) 1,1-Dichloropropene	8.083	75	81265	4.731	ug/l #	48
37) Ethyl Acetate	7.335	43	247480	11.116	ug/l #	68
38) Carbon Tetrachloride	8.086	117	96548	5.886	ug/l #	17
40) Benzene	8.458	78	121253	2.303	ug/l	95
41) Methacrylonitrile	7.646	41	3224	0.290	ug/l #	34
49) 1,4-Dioxane	9.571	88	127	0.518	ug/l #	1
52) Toluene	10.505	92	40752	1.279	ug/l	97
57) 1,3-Dichloropropane	11.143	76	27138	1.217	ug/l #	44
58) 2-Chloroethyl Vinyl ether	10.065	63	324	18.569	ug/l #	45
59) 2-Hexanone	10.827	43	49795	3.096	ug/l	95
68) m/p-Xylenes	11.945	106	12520	0.572	ug/l	95
69) o-Xylene	12.280	106	5580	0.256	ug/l	87
75) 1,1,2,2-Tetrachloroethane	12.843	83	358	0.465	ug/l #	51
76) 1,2,3-Trichloropropane	12.728	75	417942	25.116	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.728	75	417942	85.639	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.366	105	9790	0.229	ug/l	91
95) Naphthalene	15.504	128	38275	3.155	ug/l	98
96) 1,2,3-Trichlorobenzene	15.694	180	532	0.882	ug/l #	49

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

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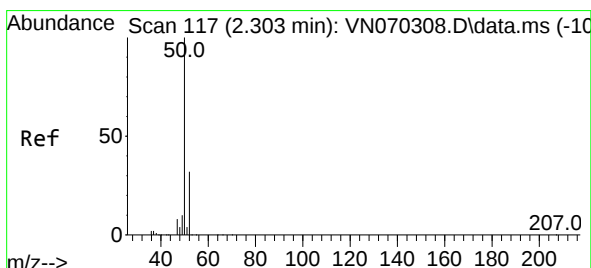
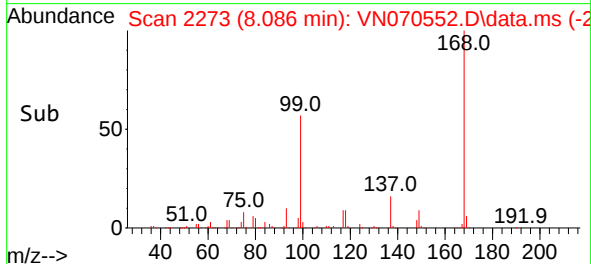
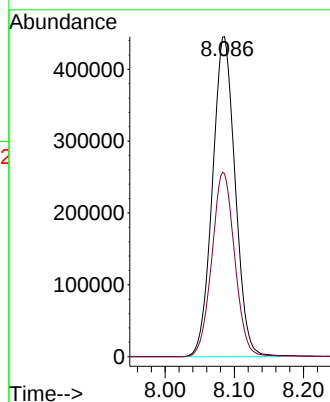
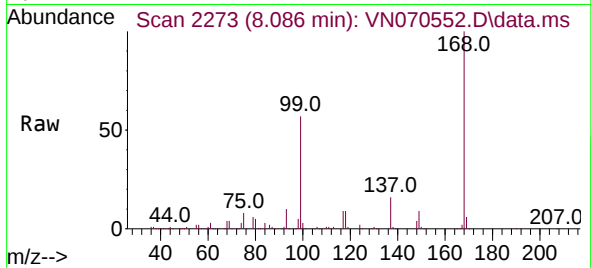




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

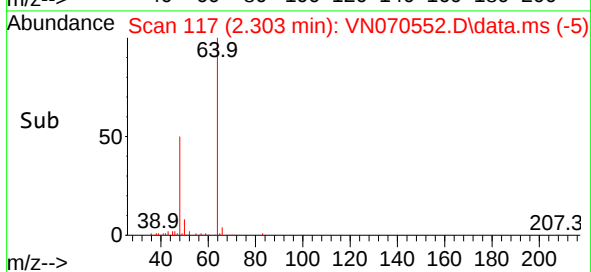
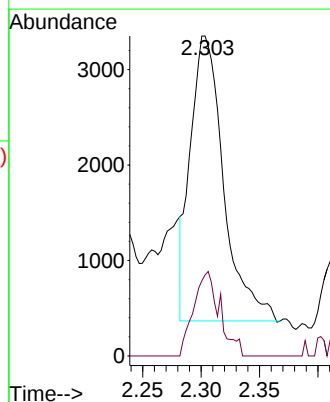
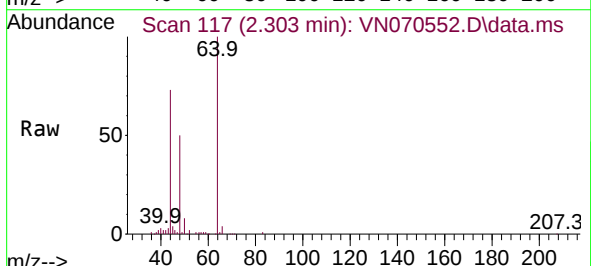
Instrument :
MSVOA_N
ClientSampleId :

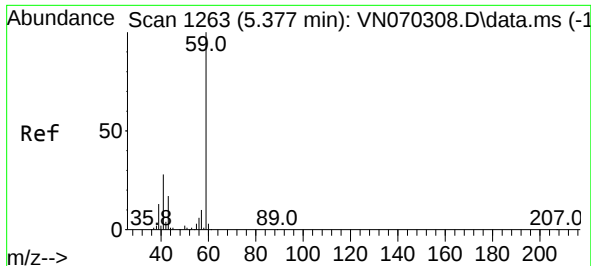
Tgt Ion:168 Resp: 1014733
Ion Ratio Lower Upper
168 100
99 57.2 41.3 61.9



#3
Chloromethane
Concen: 0.379 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

Tgt Ion: 50 Resp: 5934
Ion Ratio Lower Upper
50 100
52 28.4 25.4 38.0





#11

Tert butyl alcohol

Concen: 1.228 ug/l

RT: 5.369 min Scan# 11

Delta R.T. -0.008 min

Lab File: VN070552.D

Acq: 10 Jan 2022 19:00

Instrument :

MSVOA_N

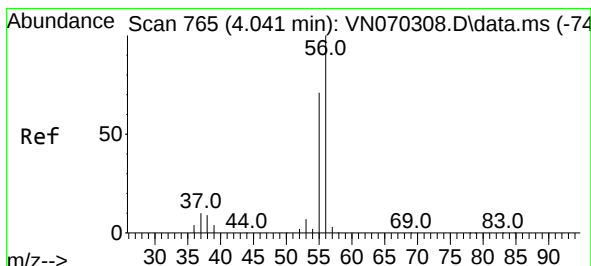
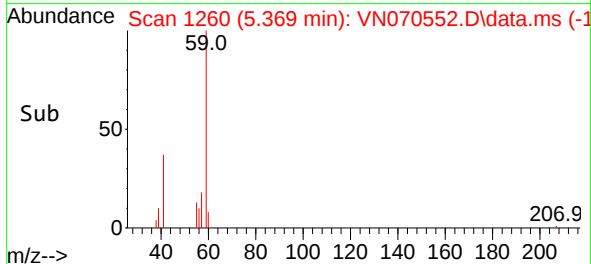
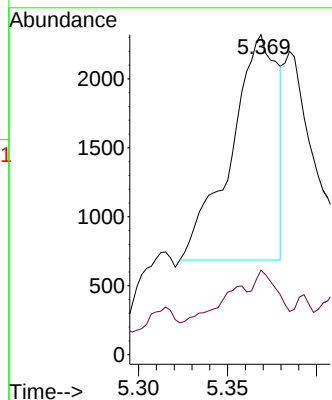
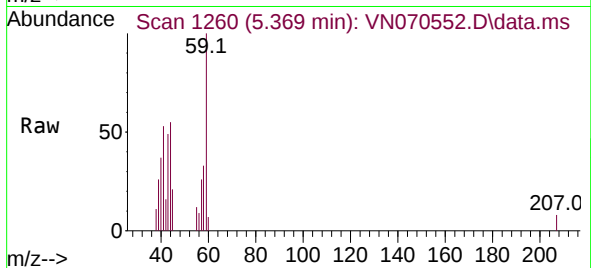
ClientSampleId :

Tgt Ion: 59 Resp: 2983

Ion Ratio Lower Upper

59 100

57 8.0 8.7 13.1#



#13

Acrolein

Concen: 6.582 ug/l

RT: 4.049 min Scan# 768

Delta R.T. 0.008 min

Lab File: VN070552.D

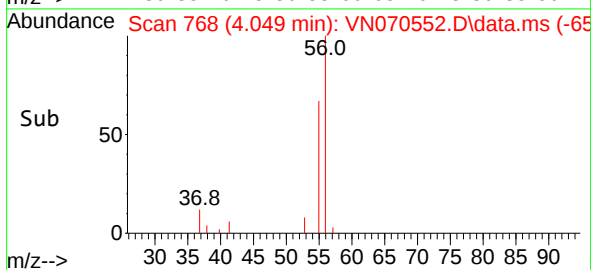
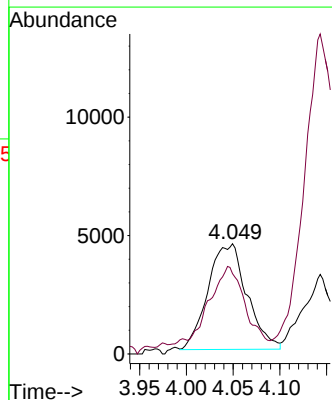
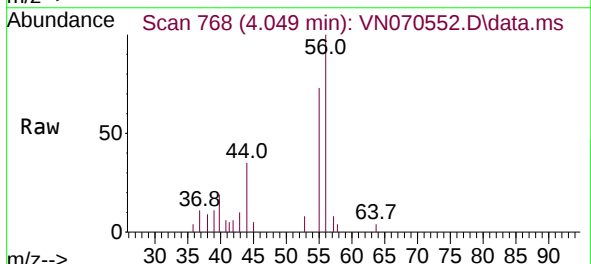
Acq: 10 Jan 2022 19:00

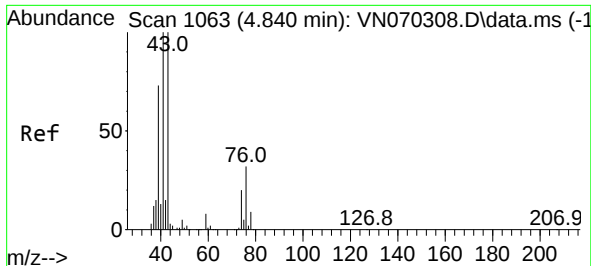
Tgt Ion: 56 Resp: 12974

Ion Ratio Lower Upper

56 100

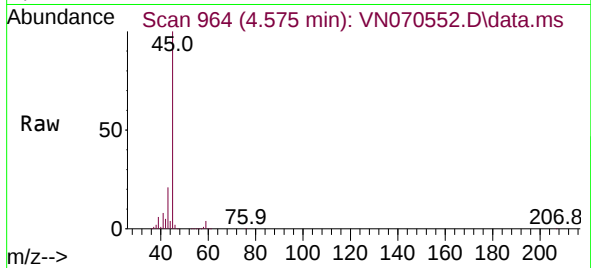
55 58.1 56.6 85.0



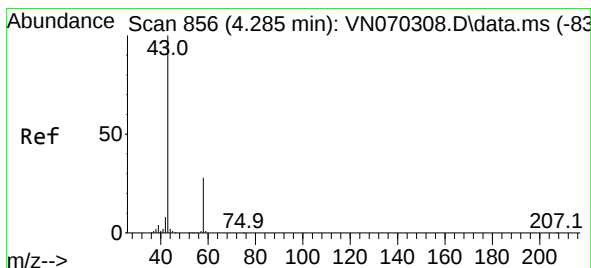
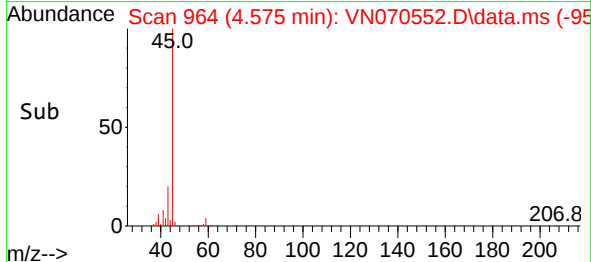
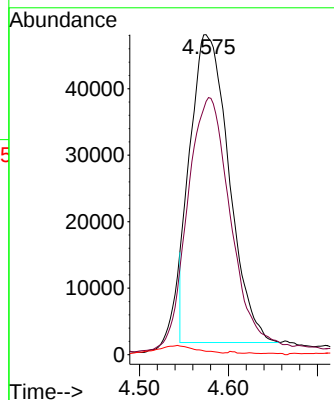


#14
Allyl chloride
Concen: 5.974 ug/l
RT: 4.575 min Scan# 90
Delta R.T. -0.265 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

Instrument :
MSVOA_N
ClientSampleId :

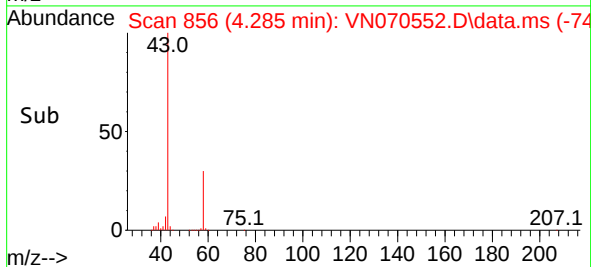
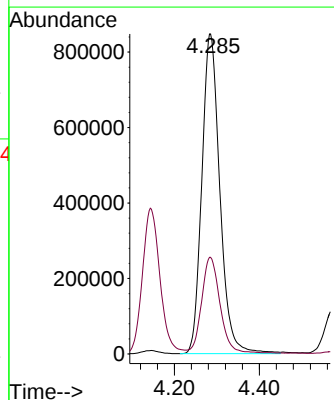
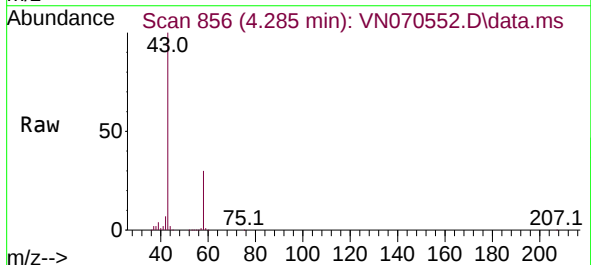


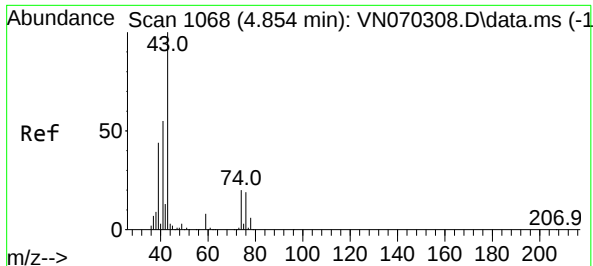
Tgt Ion: 41 Resp: 139977
Ion Ratio Lower Upper
41 100
39 83.2 61.2 91.8
76 0.0 26.0 39.0#



#16
Acetone
Concen: 263.806 ug/l
RT: 4.285 min Scan# 856
Delta R.T. 0.000 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

Tgt Ion: 43 Resp: 2498541
Ion Ratio Lower Upper
43 100
58 29.9 23.1 34.7





#18

Methyl Acetate

Concen: 2.475 ug/l

RT: 4.857 min Scan# 1069

Delta R.T. 0.003 min

Lab File: VN070552.D

Acq: 10 Jan 2022 19:00

Instrument :

MSVOA_N

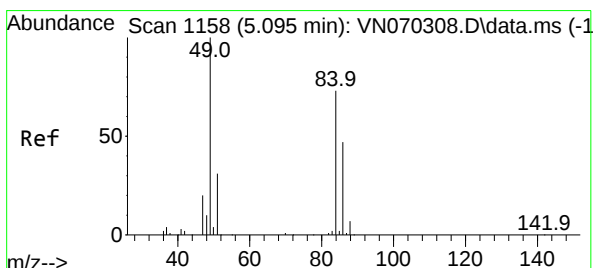
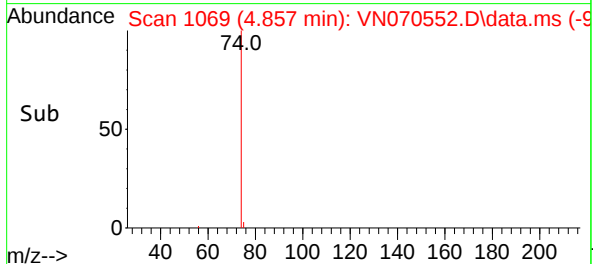
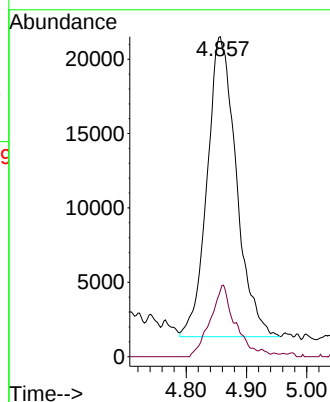
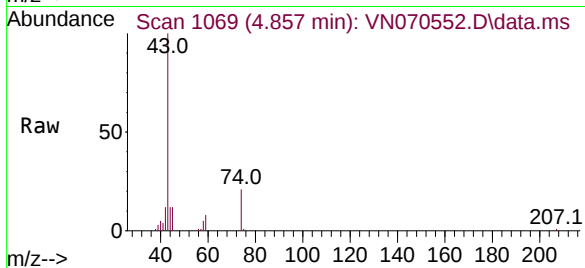
ClientSampleId :

Tgt Ion: 43 Resp: 67809

Ion Ratio Lower Upper

43 100

74 20.0 19.4 29.2



#20

Methylene Chloride

Concen: 0.210 ug/l

RT: 5.098 min Scan# 1159

Delta R.T. 0.003 min

Lab File: VN070552.D

Acq: 10 Jan 2022 19:00

Tgt Ion: 84 Resp: 2756

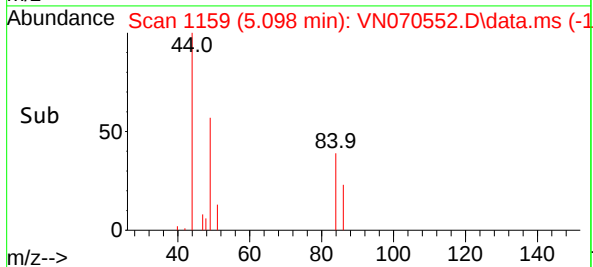
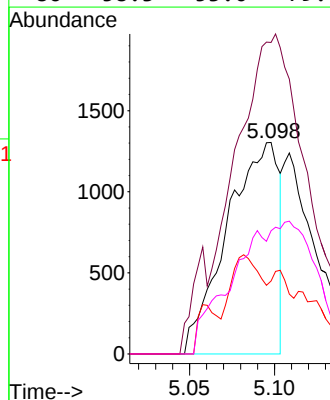
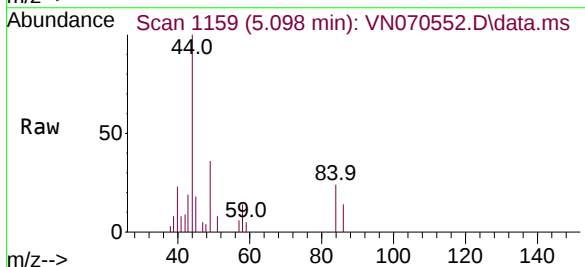
Ion Ratio Lower Upper

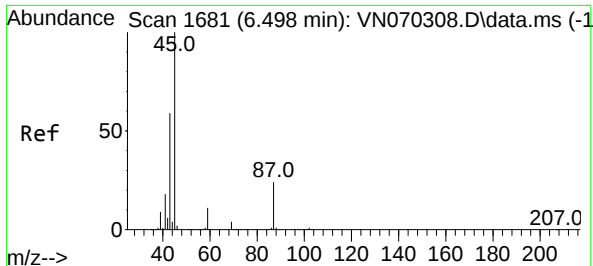
84 100

49 147.3 93.5 140.3#

51 34.5 29.4 44.2

86 58.3 53.0 79.4





#22

Diisopropyl ether

Concen: 3.326 ug/l

RT: 6.578 min Scan# 1711

Delta R.T. 0.080 min

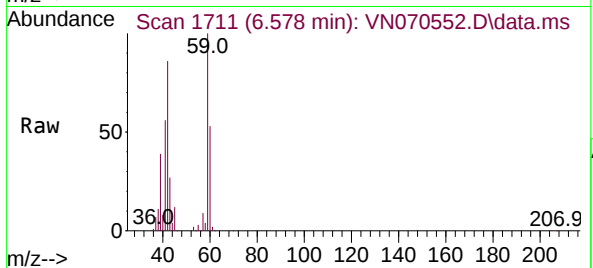
Lab File: VN070552.D

Acq: 10 Jan 2022 19:00

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 45 Resp: 151813

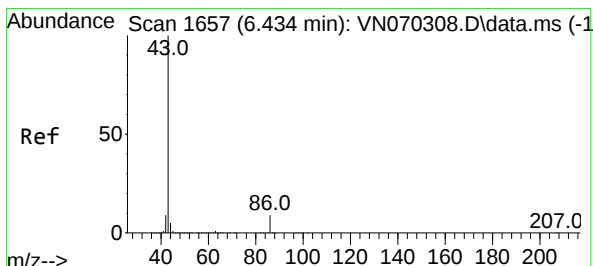
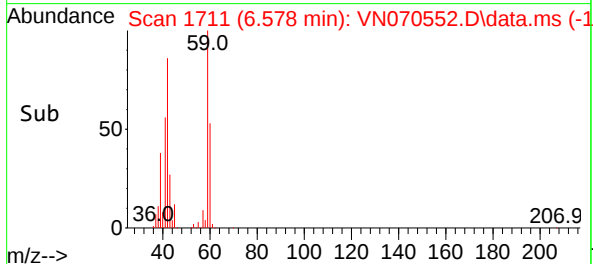
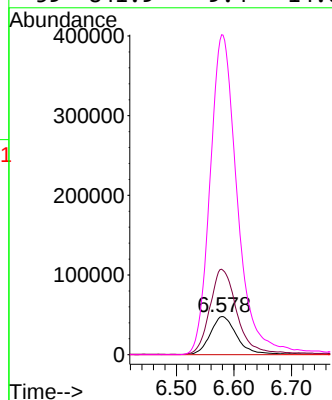
Ion Ratio Lower Upper

45 100

43 223.9 51.7 77.5#

87 0.0 23.2 34.8#

59 841.9 9.4 14.0#



#23

Vinyl Acetate

Concen: 9.817 ug/l

RT: 6.578 min Scan# 1711

Delta R.T. 0.144 min

Lab File: VN070552.D

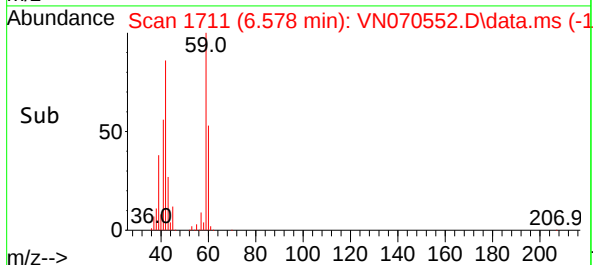
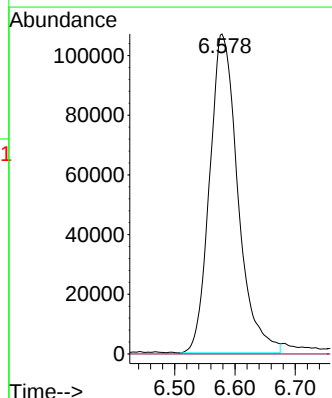
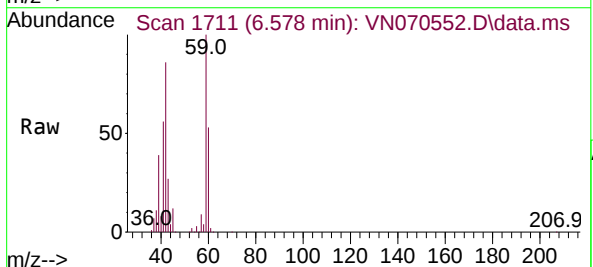
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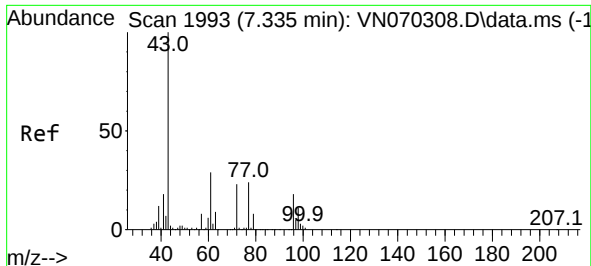
Tgt Ion: 43 Resp: 347604

Ion Ratio Lower Upper

43 100

86 0.0 8.5 12.7#

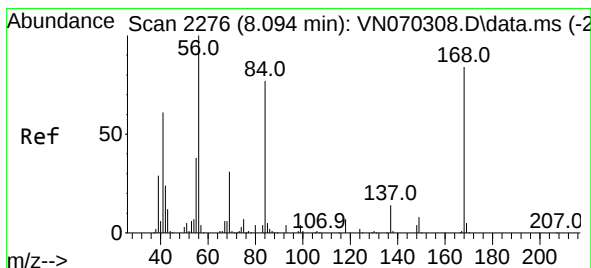
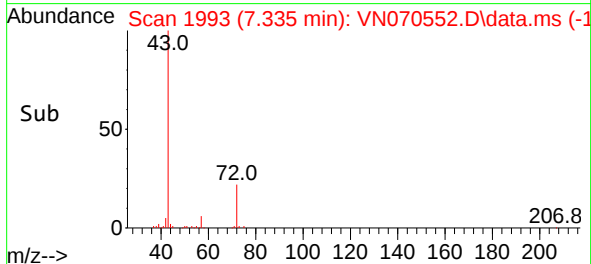
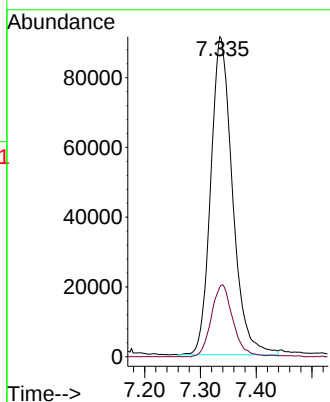
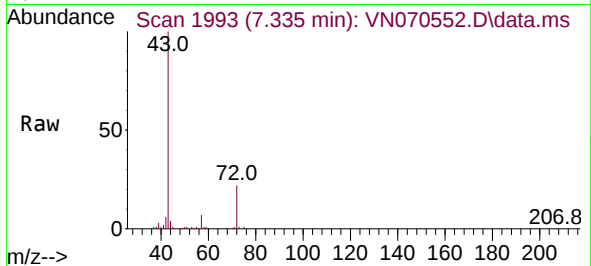




#25
2-Butanone
Concen: 20.752 ug/l
RT: 7.335 min Scan# 1993
Delta R.T. -0.000 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

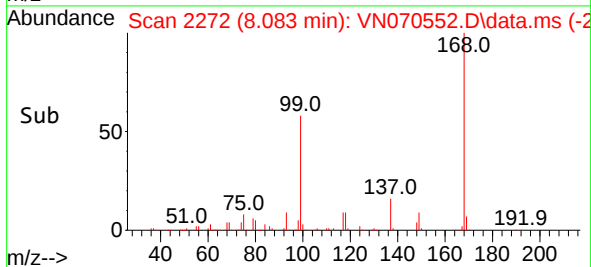
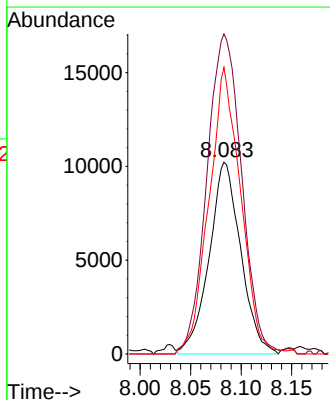
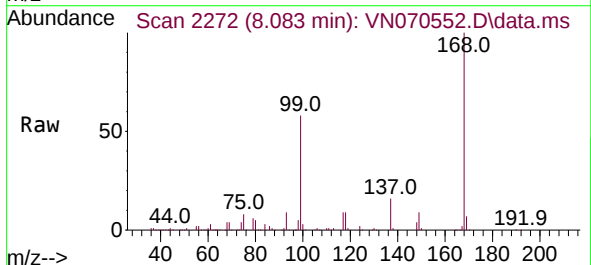
Instrument :
MSVOA_N
ClientSampleId :

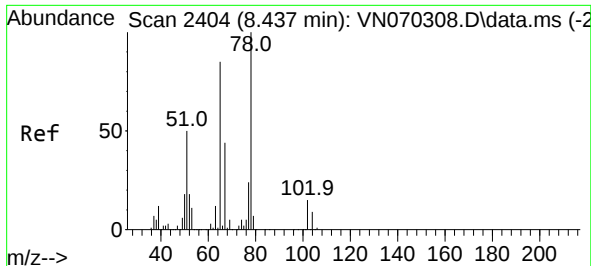
Tgt Ion: 43 Resp: 247480
Ion Ratio Lower Upper
43 100
72 21.9 21.7 32.5



#31
Cyclohexane
Concen: 0.963 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.011 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

Tgt Ion: 56 Resp: 22174
Ion Ratio Lower Upper
56 100
69 164.9 27.1 40.7#
84 147.1 73.4 110.0#





#33

1,2-Dichloroethane-d4

Concen: 49.157 ug/l

RT: 8.437 min Scan# 2404

Delta R.T. -0.000 min

Lab File: VN070552.D

Acq: 10 Jan 2022 19:00

Instrument :

MSVOA_N

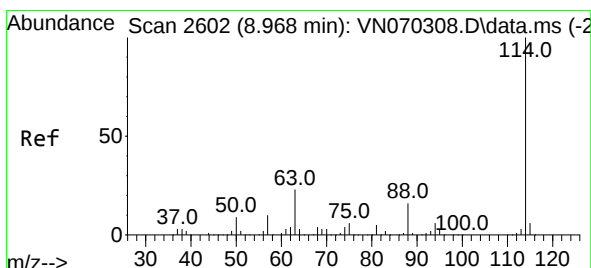
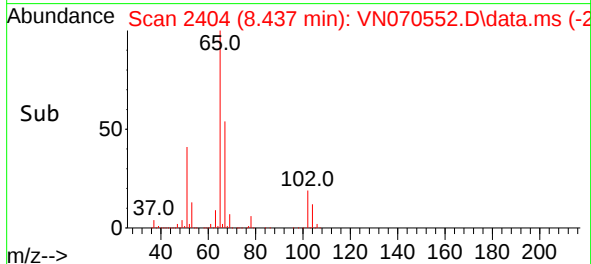
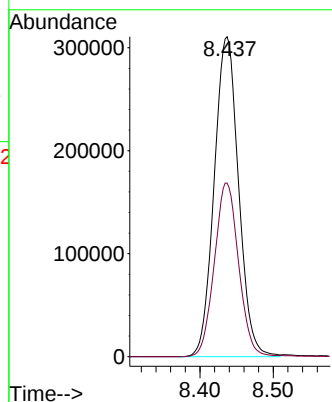
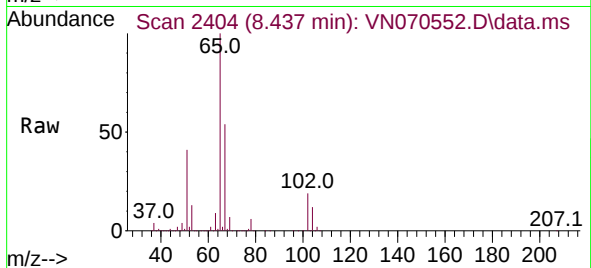
ClientSampleId :

Tgt Ion: 65 Resp: 717200

Ion Ratio Lower Upper

65 100

67 54.0 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.965 min Scan# 2601

Delta R.T. -0.003 min

Lab File: VN070552.D

Acq: 10 Jan 2022 19:00

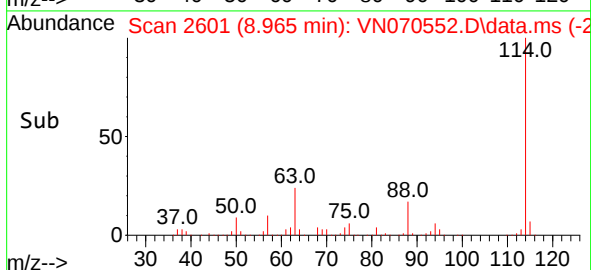
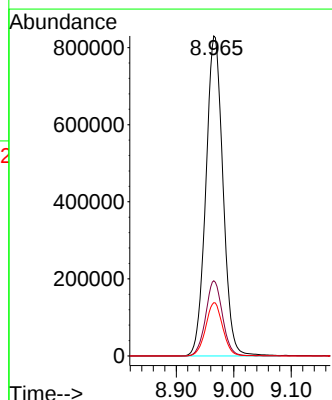
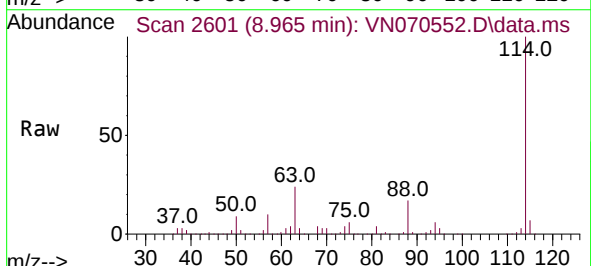
Tgt Ion: 114 Resp: 1716087

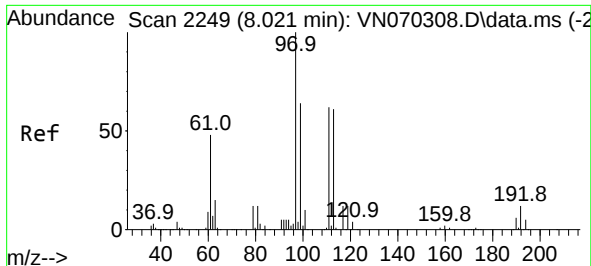
Ion Ratio Lower Upper

114 100

63 23.5 0.0 37.8

88 16.7 0.0 27.4

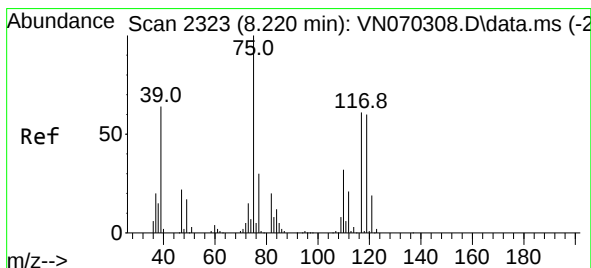
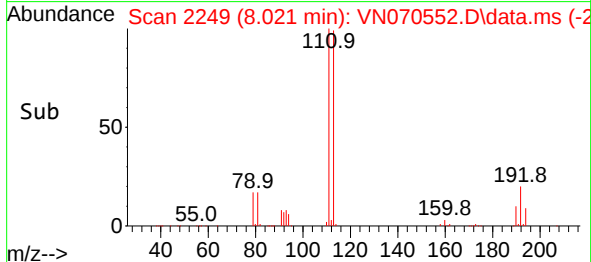
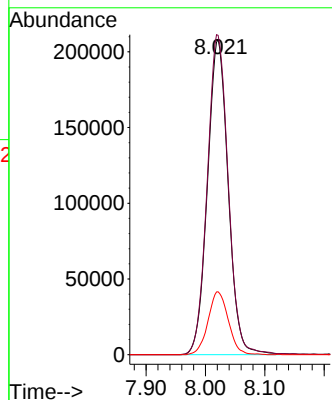
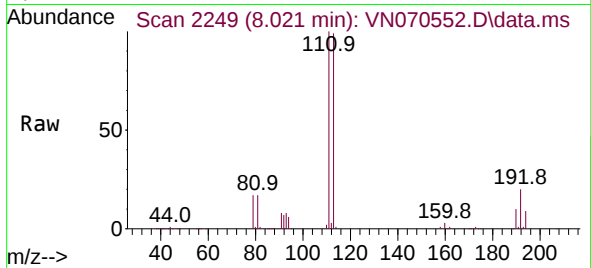




#35
Dibromofluoromethane
Concen: 48.520 ug/l
RT: 8.021 min Scan# 211
Delta R.T. 0.000 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

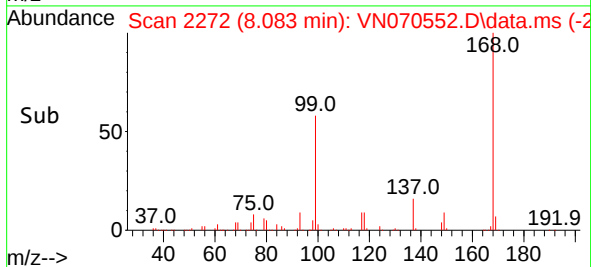
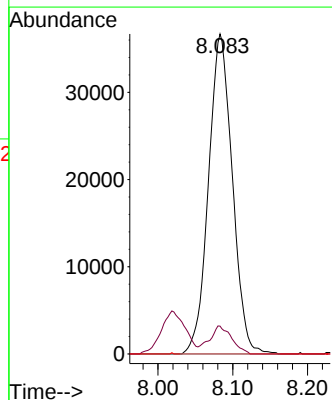
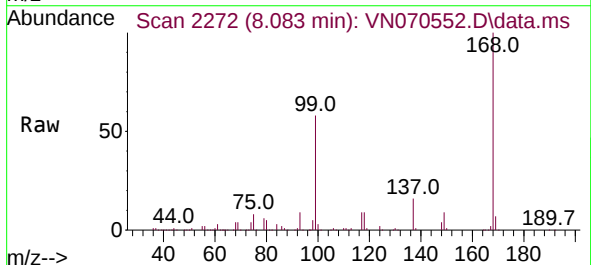
Instrument :
MSVOA_N
ClientSampleId :

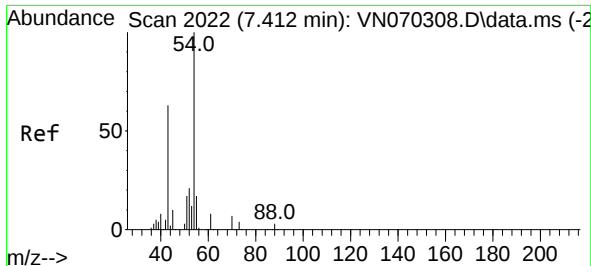
Tgt Ion:113 Resp: 503797
Ion Ratio Lower Upper
113 100
111 103.0 82.2 123.2
192 19.5 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.731 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.137 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

Tgt Ion: 75 Resp: 81265
Ion Ratio Lower Upper
75 100
110 8.2 18.4 55.2#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 11.116 ug/l

RT: 7.335 min Scan# 19

Delta R.T. -0.077 min

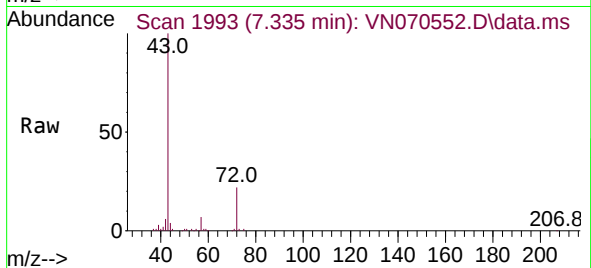
Lab File: VN070552.D

Acq: 10 Jan 2022 19:00

Instrument :

MSVOA_N

ClientSampleId :



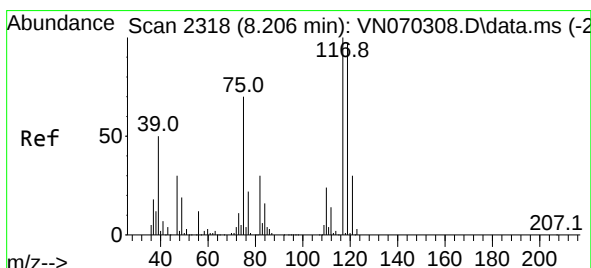
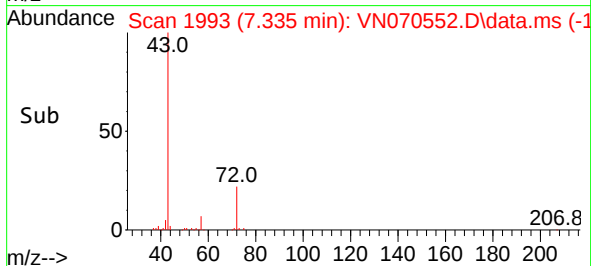
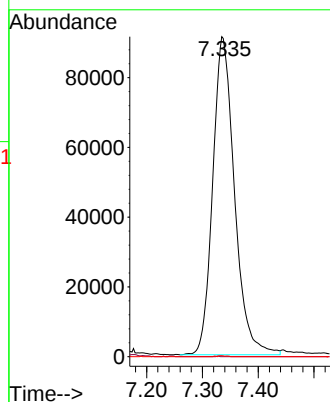
Tgt Ion: 43 Resp: 247480

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

70 0.1 7.9 11.9#



#38

Carbon Tetrachloride

Concen: 5.886 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.120 min

Lab File: VN070552.D

Acq: 10 Jan 2022 19:00

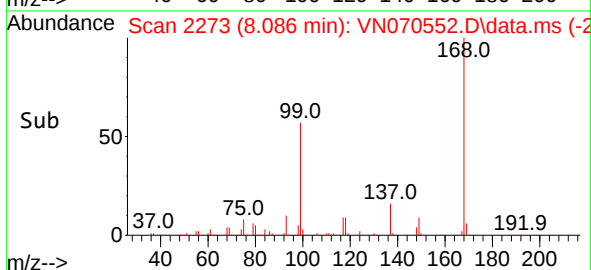
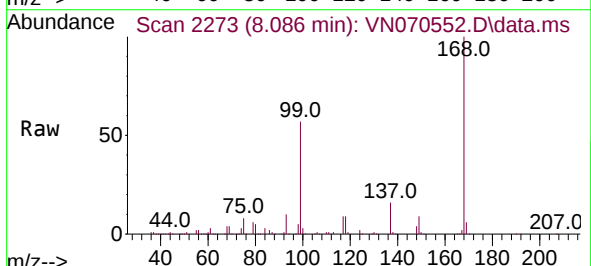
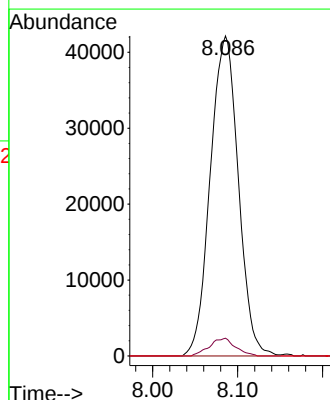
Tgt Ion: 117 Resp: 96548

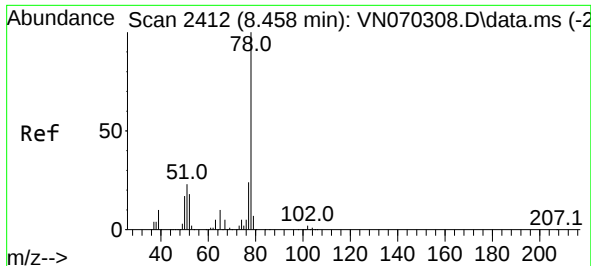
Ion Ratio Lower Upper

117 100

119 5.5 76.1 114.1#

121 0.0 24.2 36.2#

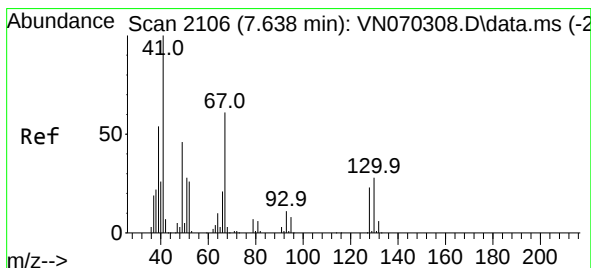
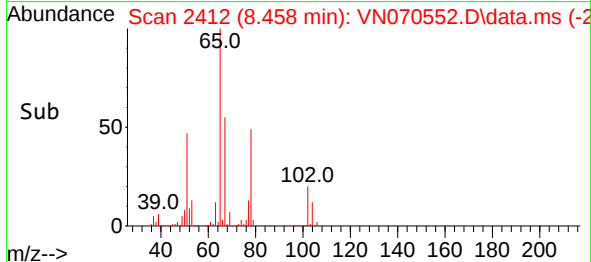
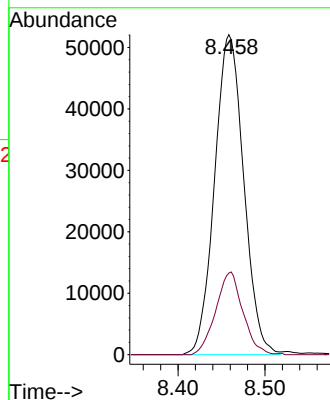
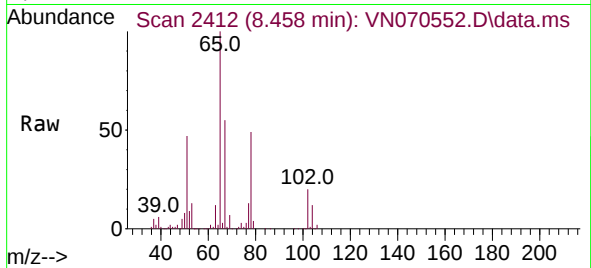




#40
Benzene
Concen: 2.303 ug/l
RT: 8.458 min Scan# 2412
Delta R.T. 0.000 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

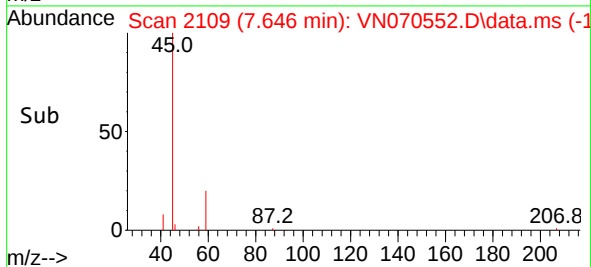
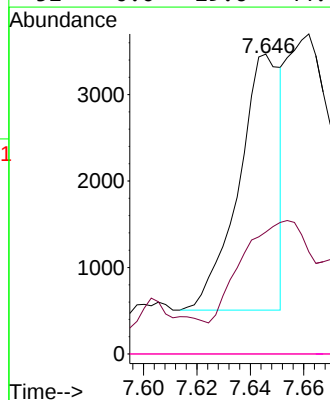
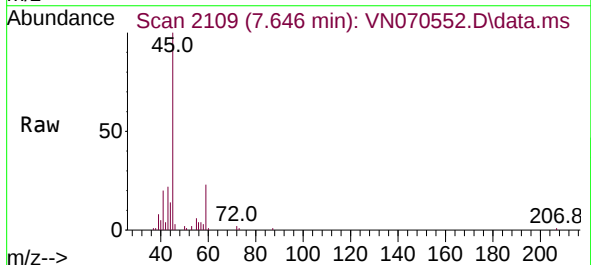
Instrument :
MSVOA_N
ClientSampleId :

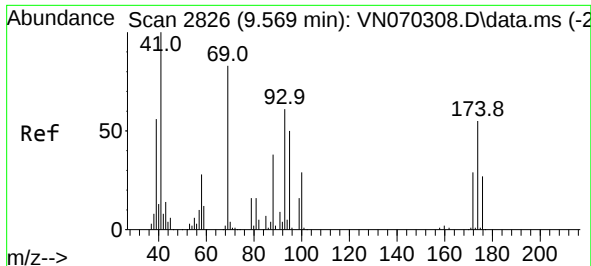
Tgt Ion: 78 Resp: 121253
Ion Ratio Lower Upper
78 100
77 25.5 18.6 27.8



#41
Methacrylonitrile
Concen: 0.290 ug/l
RT: 7.646 min Scan# 2109
Delta R.T. 0.008 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

Tgt Ion: 41 Resp: 3224
Ion Ratio Lower Upper
41 100
39 82.6 48.1 72.1#
67 0.0 68.3 102.5#
52 0.0 29.6 44.4#





#49

1,4-Dioxane

Concen: 0.518 ug/l

RT: 9.571 min Scan# 21

Delta R.T. 0.002 min

Lab File: VN070552.D

Acq: 10 Jan 2022 19:00

Instrument :

MSVOA_N

ClientSampleId :

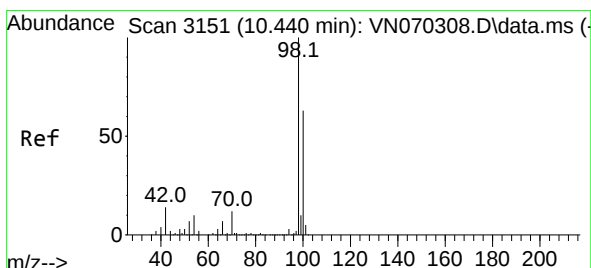
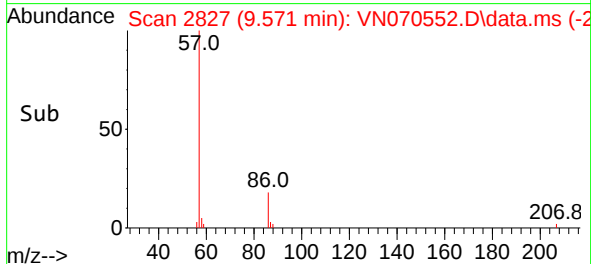
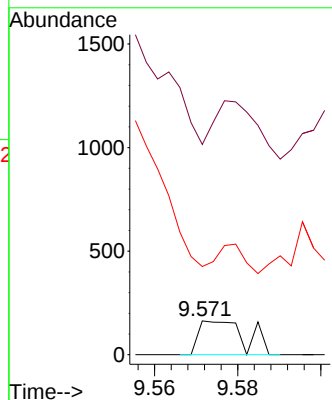
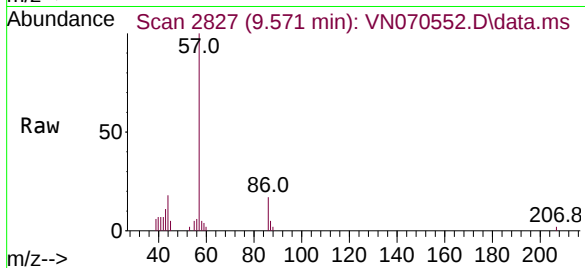
Tgt Ion: 88 Resp: 127

Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.2#

58 752.0 50.6 75.8#



#50

Toluene-d8

Concen: 49.556 ug/l

RT: 10.440 min Scan# 3151

Delta R.T. 0.000 min

Lab File: VN070552.D

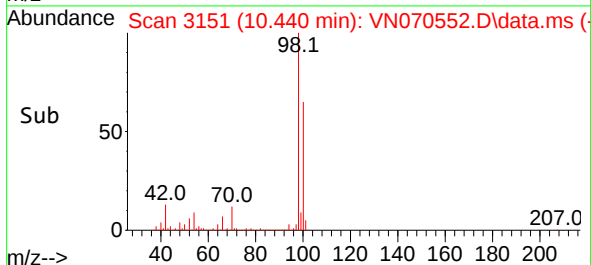
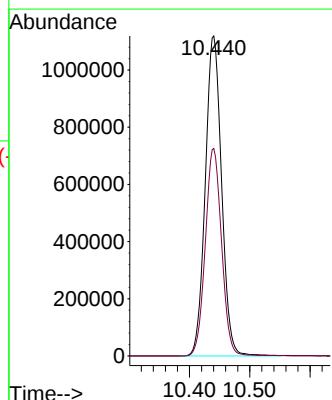
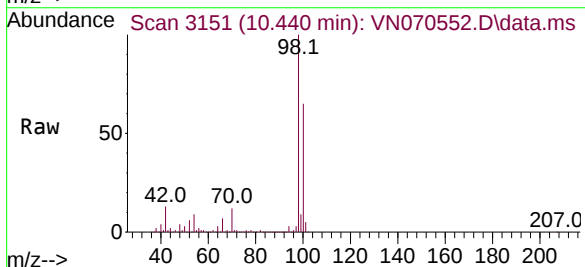
Acq: 10 Jan 2022 19:00

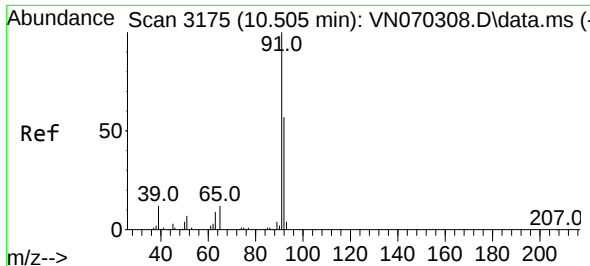
Tgt Ion: 98 Resp: 2101981

Ion Ratio Lower Upper

98 100

100 64.6 50.4 75.6

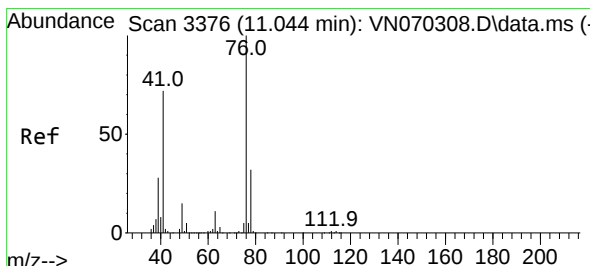
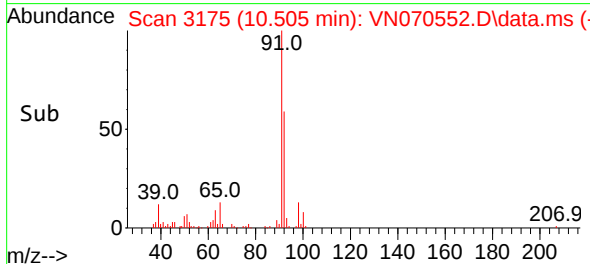
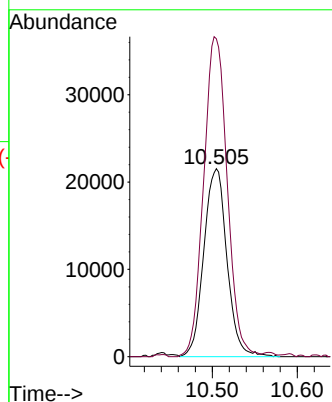
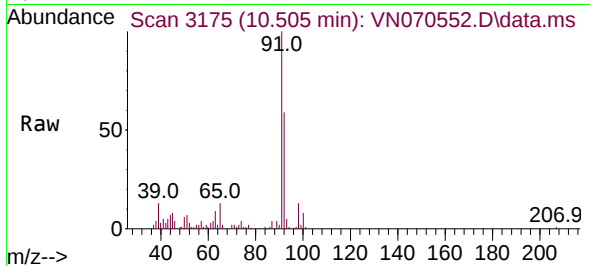




#52
Toluene
Concen: 1.279 ug/l
RT: 10.505 min Scan# 3175
Delta R.T. -0.000 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

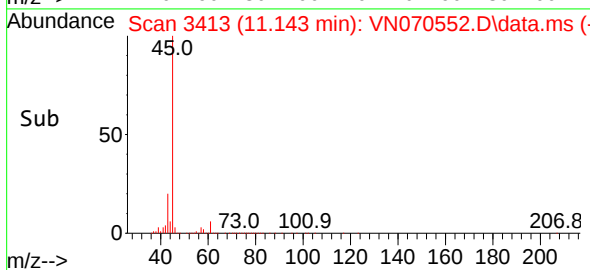
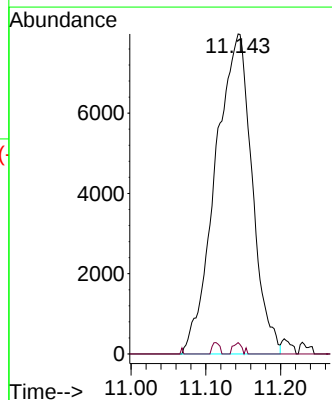
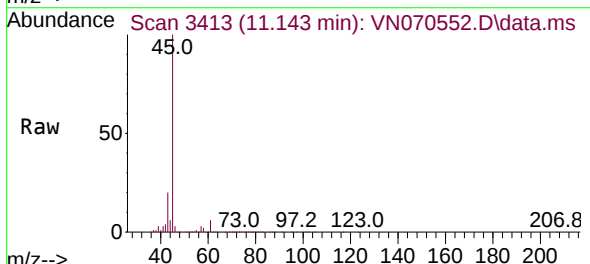
Instrument :
MSVOA_N
ClientSampleId :

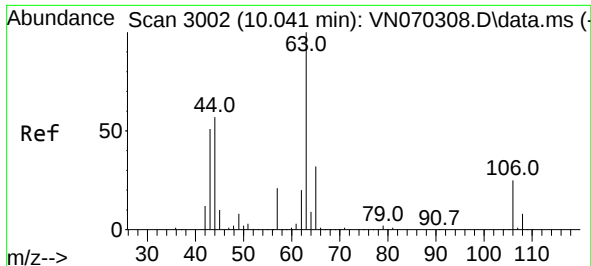
Tgt Ion: 92 Resp: 40752
Ion Ratio Lower Upper
92 100
91 173.4 142.0 213.0



#57
1,3-Dichloropropane
Concen: 1.217 ug/l
RT: 11.143 min Scan# 3413
Delta R.T. 0.099 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

Tgt Ion: 76 Resp: 27138
Ion Ratio Lower Upper
76 100
78 0.9 25.7 38.5#

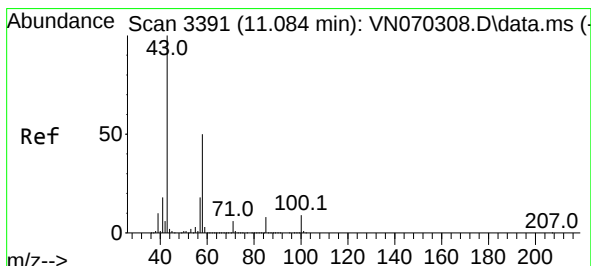
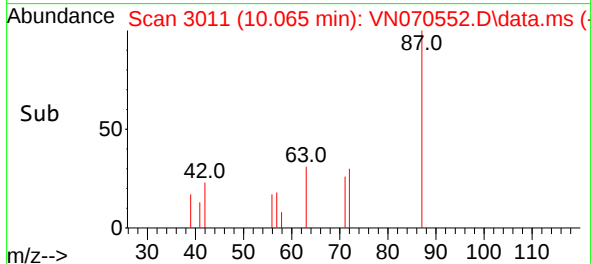
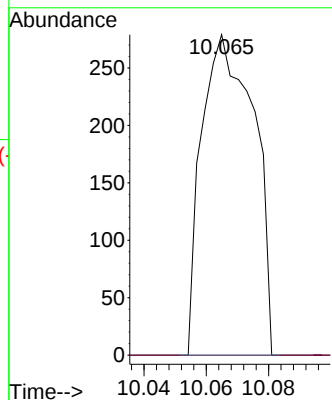
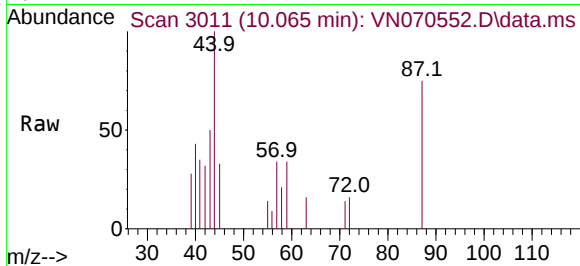




#58
2-Chloroethyl Vinyl ether
Concen: 18.569 ug/l
RT: 10.065 min Scan# 3002
Delta R.T. 0.024 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

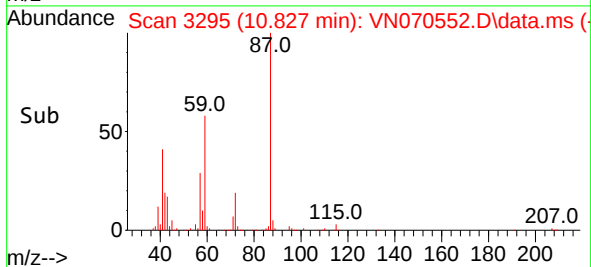
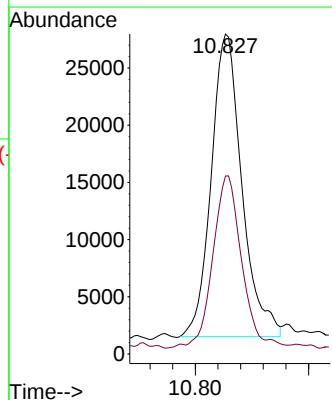
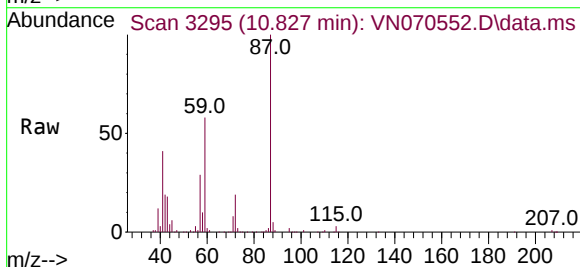
Instrument :
MSVOA_N
ClientSampleId :

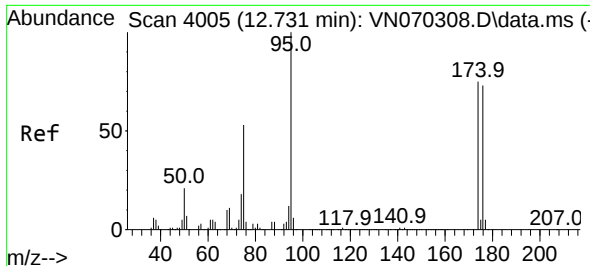
Tgt Ion: 63 Resp: 324
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#59
2-Hexanone
Concen: 3.096 ug/l
RT: 10.827 min Scan# 3295
Delta R.T. -0.257 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

Tgt Ion: 43 Resp: 49795
Ion Ratio Lower Upper
43 100
58 50.3 26.9 80.7

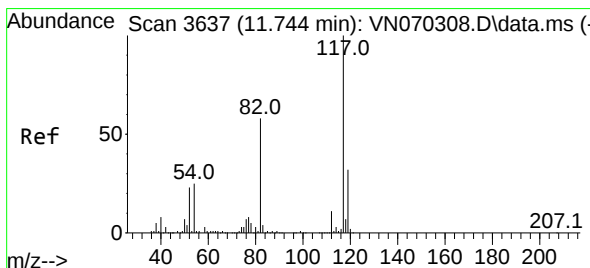
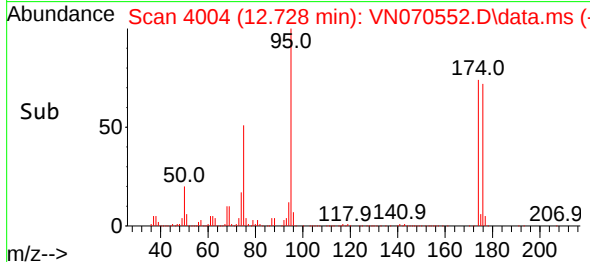
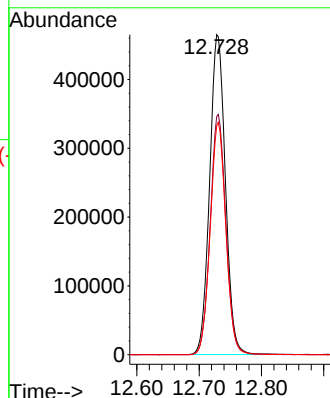
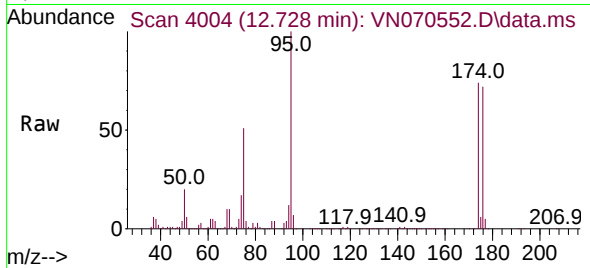




#62
4-Bromofluorobenzene
Concen: 53.311 ug/l
RT: 12.728 min Scan# 4005
Delta R.T. -0.003 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

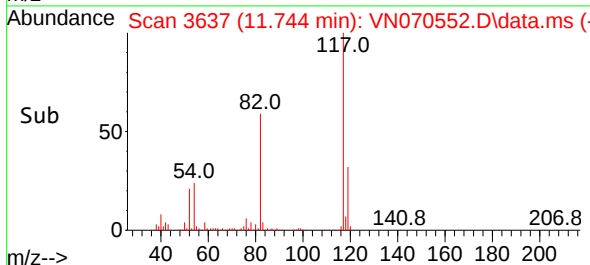
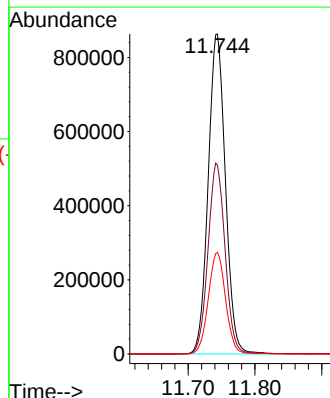
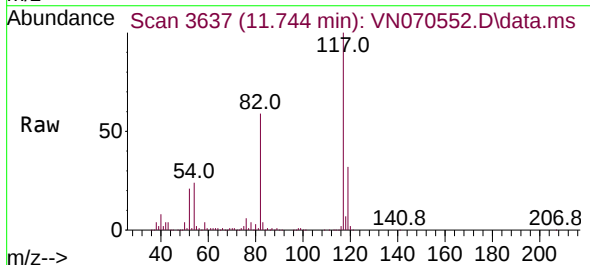
Instrument :
MSVOA_N
ClientSampleId :

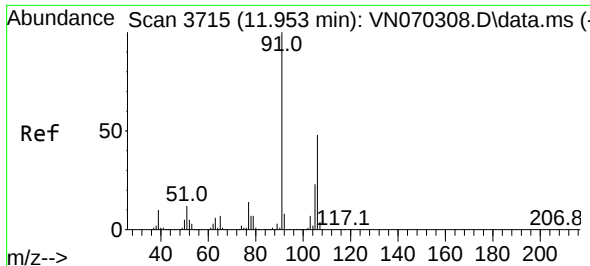
Tgt Ion: 95 Resp: 816717
Ion Ratio Lower Upper
95 100
174 74.8 0.0 187.2
176 72.2 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.000 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

Tgt Ion: 117 Resp: 1546932
Ion Ratio Lower Upper
117 100
82 59.0 42.4 63.6
119 31.7 25.4 38.2

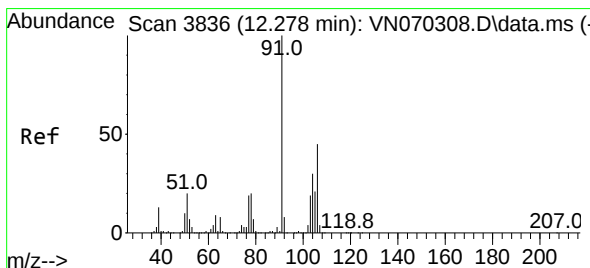
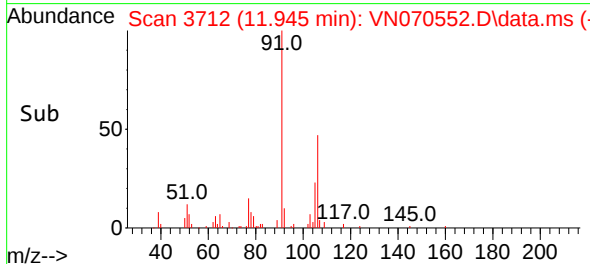
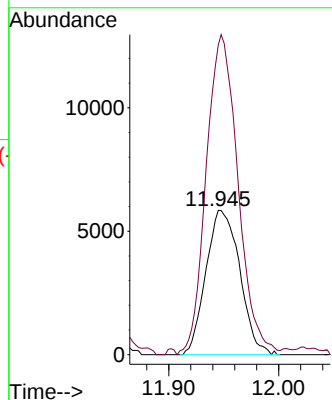
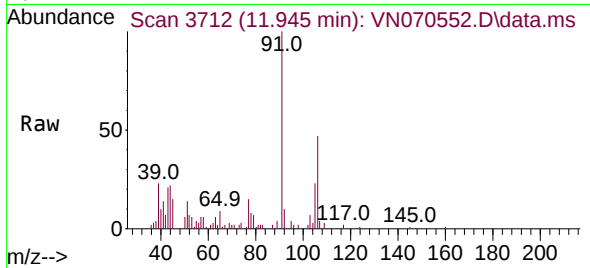




#68
m/p-Xylenes
Concen: 0.572 ug/l
RT: 11.945 min Scan# 31
Delta R.T. -0.008 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

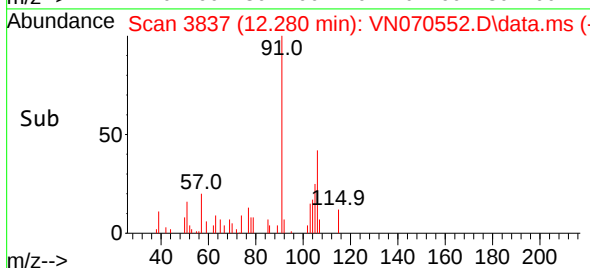
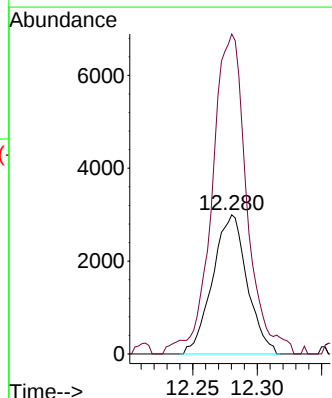
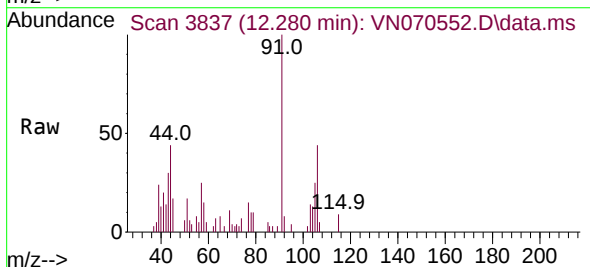
Instrument :
MSVOA_N
ClientSampleId :

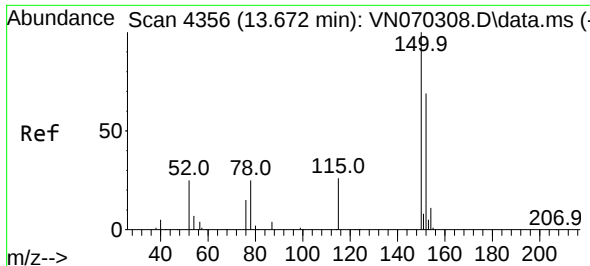
Tgt Ion:106 Resp: 12520
Ion Ratio Lower Upper
106 100
91 208.3 160.6 240.8



#69
o-Xylene
Concen: 0.256 ug/l
RT: 12.280 min Scan# 3837
Delta R.T. 0.002 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

Tgt Ion:106 Resp: 5580
Ion Ratio Lower Upper
106 100
91 231.1 105.8 317.3

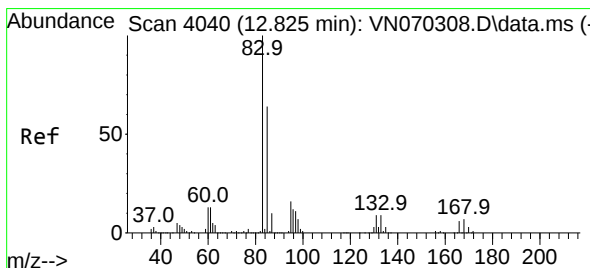
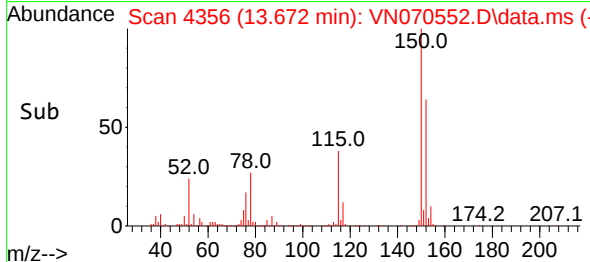
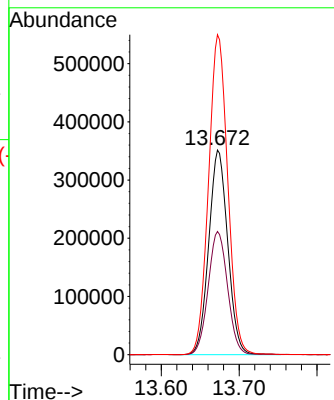
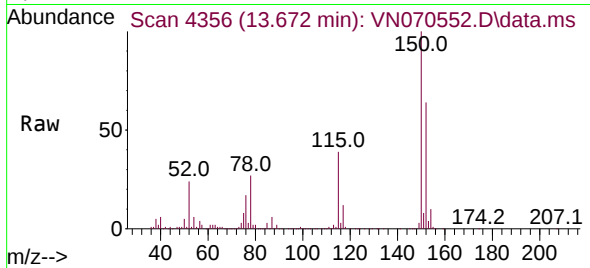




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.672 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VN070552.D
 Acq: 10 Jan 2022 19:00

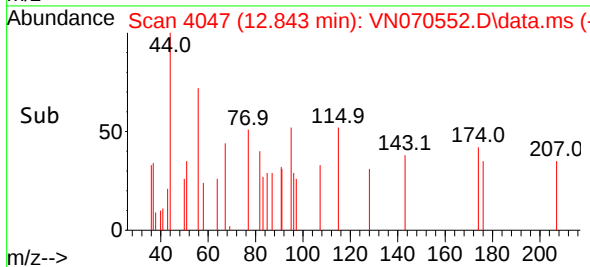
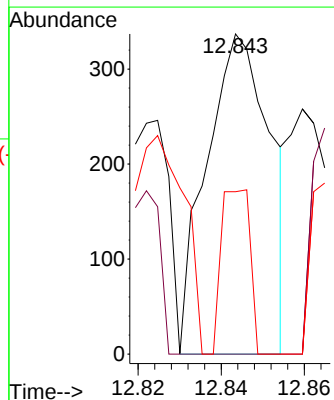
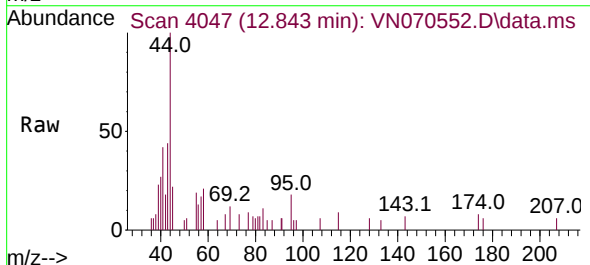
Instrument :
 MSVOA_N
 ClientSampleId :

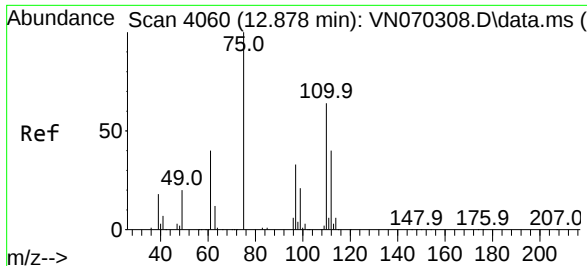
Tgt Ion:152 Resp: 596258
 Ion Ratio Lower Upper
 152 100
 115 61.2 27.5 82.5
 150 157.9 0.0 344.4



#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.465 ug/l
 RT: 12.843 min Scan# 4047
 Delta R.T. 0.018 min
 Lab File: VN070552.D
 Acq: 10 Jan 2022 19:00

Tgt Ion: 83 Resp: 358
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.5 16.5#
 85 23.2 32.4 97.2#

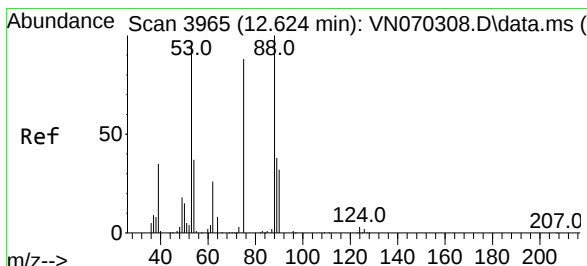
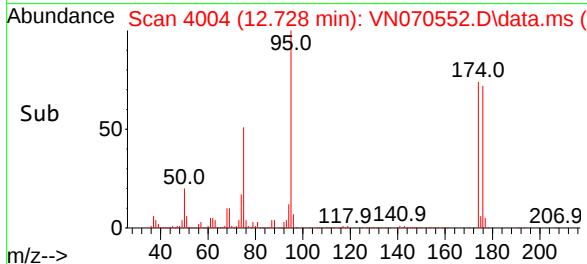
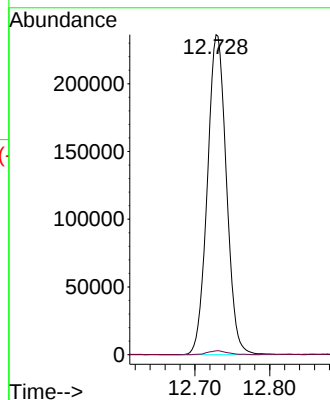
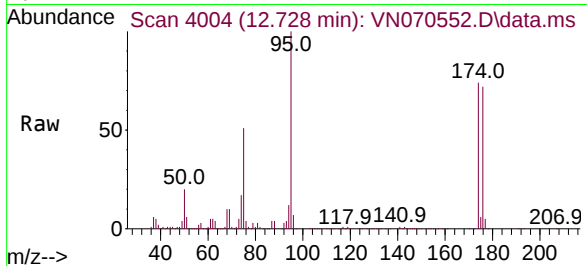




#76
1,2,3-Trichloropropane
Concen: 25.116 ug/l
RT: 12.728 min Scan# 4004
Delta R.T. -0.150 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

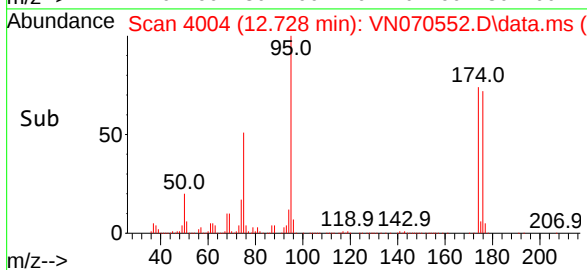
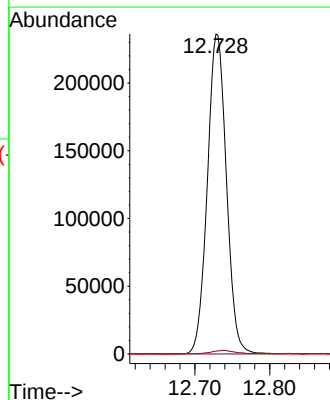
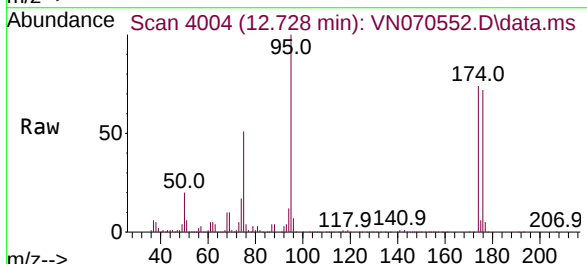
Instrument :
MSVOA_N
ClientSampleId :

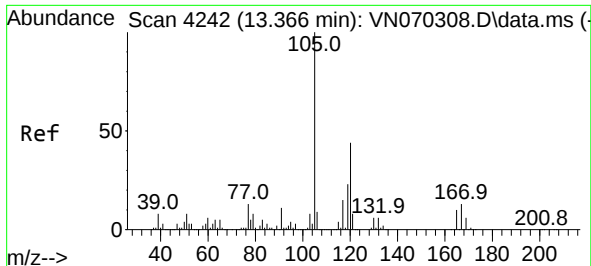
Tgt Ion: 75 Resp: 417942
Ion Ratio Lower Upper
75 100
77 1.3 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 85.639 ug/l
RT: 12.728 min Scan# 4004
Delta R.T. 0.104 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

Tgt Ion: 75 Resp: 417942
Ion Ratio Lower Upper
75 100
53 1.2 90.5 135.7#
89 0.0 38.2 57.4#

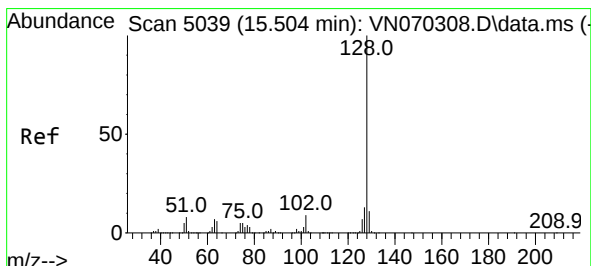
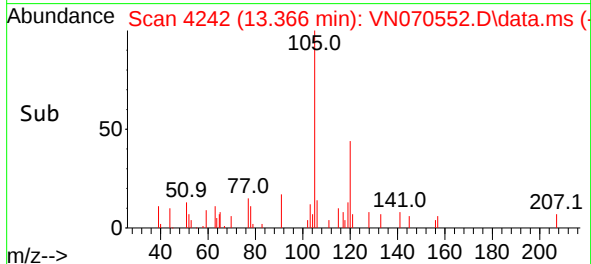
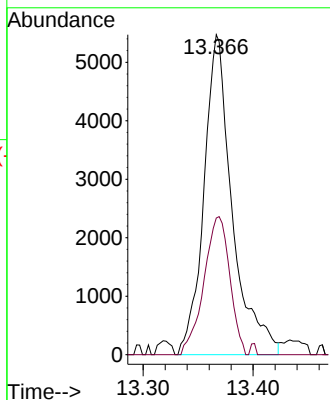
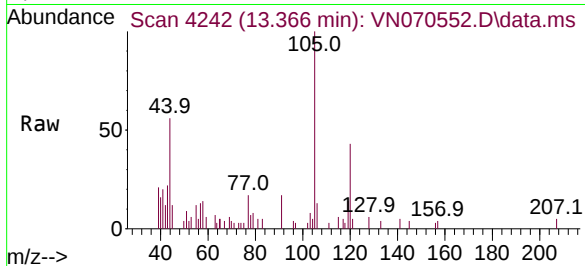




#84
1,2,4-Trimethylbenzene
Concen: 0.229 ug/l
RT: 13.366 min Scan# 4242
Delta R.T. 0.000 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

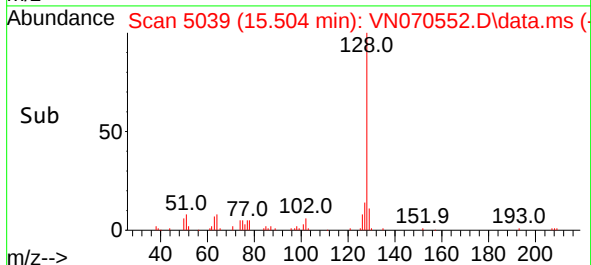
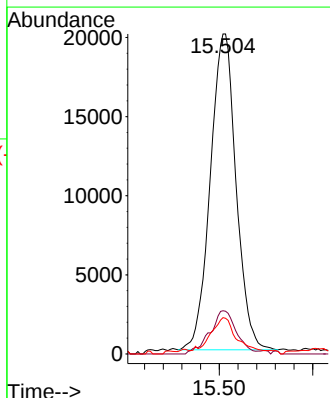
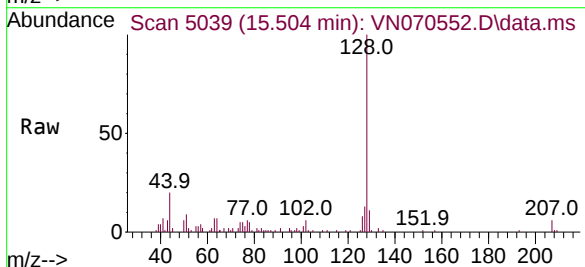
Instrument :
MSVOA_N
ClientSampleId :

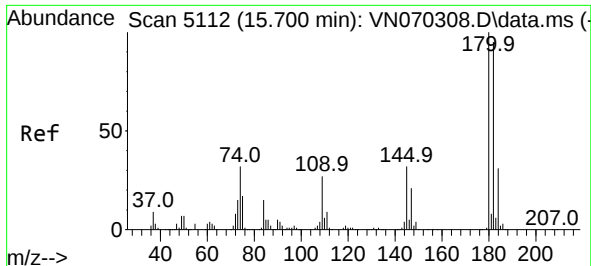
Tgt Ion:105 Resp: 9790
Ion Ratio Lower Upper
105 100
120 39.4 22.8 68.4



#95
Naphthalene
Concen: 3.155 ug/l
RT: 15.504 min Scan# 5039
Delta R.T. -0.000 min
Lab File: VN070552.D
Acq: 10 Jan 2022 19:00

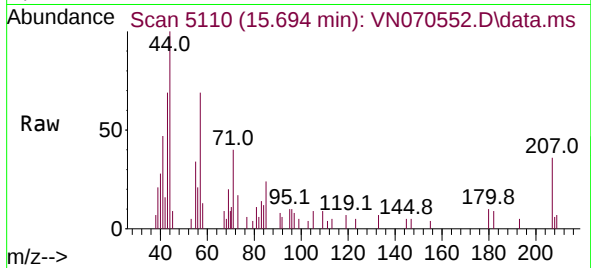
Tgt Ion:128 Resp: 38275
Ion Ratio Lower Upper
128 100
127 14.0 10.5 15.7
129 10.3 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.882 ug/l
 RT: 15.694 min Scan# 51
 Delta R.T. -0.006 min
 Lab File: VN070552.D
 Acq: 10 Jan 2022 19:00

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 532
 Ion Ratio Lower Upper
 180 100
 182 46.4 47.4 142.2#
 145 0.0 15.0 45.1#

