

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050322\
 Data File : VN072310.D
 Acq On : 03 May 2022 17:44
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: May 04 05:14:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042622W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 26 18:50:11 2022
 Response via : Initial Calibration

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

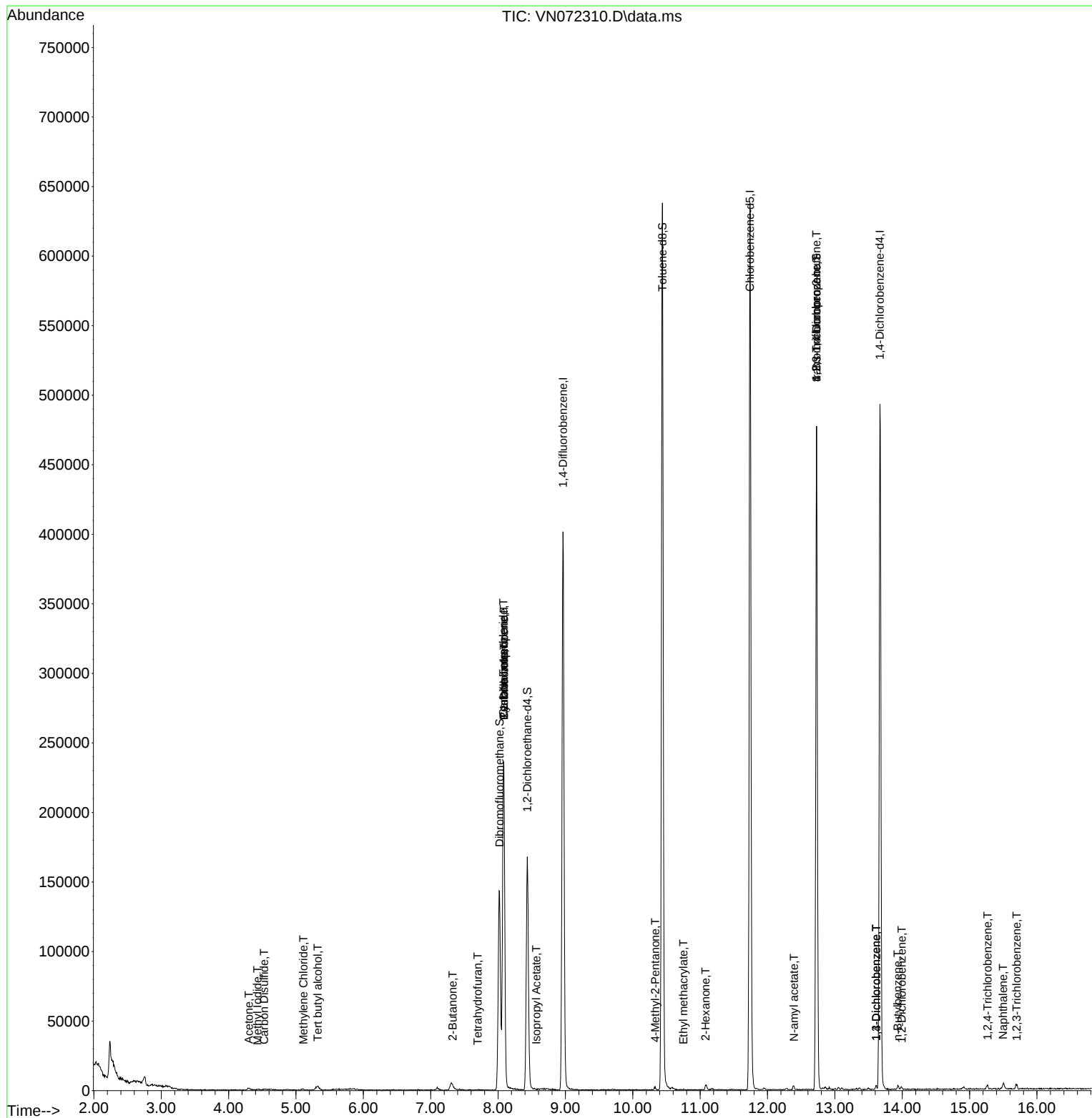
Internal Standards						
1) Pentafluorobenzene	8.087	168	172136	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.963	114	342230	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	352846	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	134217	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	137953	52.202	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 104.400%			
35) Dibromofluoromethane	8.022	113	106069	48.423	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 96.840%			
50) Toluene-d8	10.439	98	436798	50.748	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 101.500%			
62) 4-Bromofluorobenzene	12.727	95	160705	56.252	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 112.500%			
Target Compounds						
						Qvalue
3) Chloromethane	2.310	50	1241	Below Cal	#	43
5) Bromomethane	2.863	94	373	Below Cal	#	2
6) Chloroethane	2.963	64	594	Below Cal	#	42
10) Methyl Iodide	4.428	142	869	0.403	ug/l	# 52
11) Tert butyl alcohol	5.322	59	3132	7.212	ug/l	# 72
16) Acetone	4.299	43	1518	1.332	ug/l	# 73
17) Carbon Disulfide	4.528	76	686	0.539	ug/l	# 75
20) Methylene Chloride	5.110	84	613	0.281	ug/l	# 78
25) 2-Butanone	7.328	43	1003	0.553	ug/l	# 45
29) Tetrahydrofuran	7.698	42	452	0.380	ug/l	# 29
31) Cyclohexane	8.087	56	4491	1.272	ug/l	# 46
36) 1,1-Dichloropropene	8.087	75	15367	4.820	ug/l	# 51
38) Carbon Tetrachloride	8.081	117	18001	5.271	ug/l	# 17
43) Isopropyl Acetate	8.569	43	67	0.811	ug/l	# 53
51) 4-Methyl-2-Pentanone	10.333	43	1530	0.383	ug/l	# 70
56) Ethyl methacrylate	10.751	69	259	2.422	ug/l	# 54
59) 2-Hexanone	11.080	43	3724	1.323	ug/l	# 46
74) N-amyl acetate	12.392	43	2103	0.474	ug/l	# 77
75) 1,1,2,2-Tetrachloroethane	12.833	83	388	Below Cal	#	61
76) 1,2,3-Trichloropropane	12.727	75	87487	29.024	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.727	75	87487	75.369	ug/l	# 10
87) 1,3-Dichlorobenzene	13.616	146	1172	0.258	ug/l	73
88) 1,4-Dichlorobenzene	13.616	146	1172	0.266	ug/l	75
89) n-Butylbenzene	13.933	91	2421	0.359	ug/l	# 81
91) 1,2-Dichlorobenzene	13.992	146	1201	0.269	ug/l	89
93) 1,2,4-Trichlorobenzene	15.268	180	1189	2.967	ug/l	88
95) Naphthalene	15.498	128	5687	5.047	ug/l	95
96) 1,2,3-Trichlorobenzene	15.698	180	1502	3.364	ug/l	94

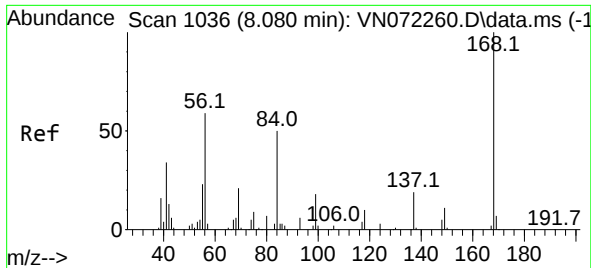
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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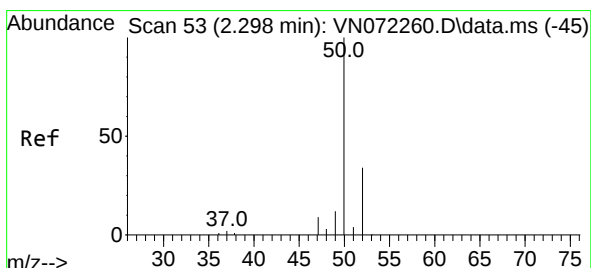
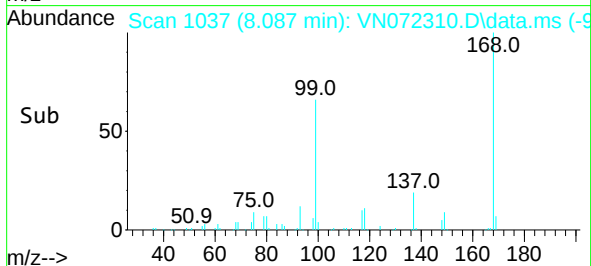
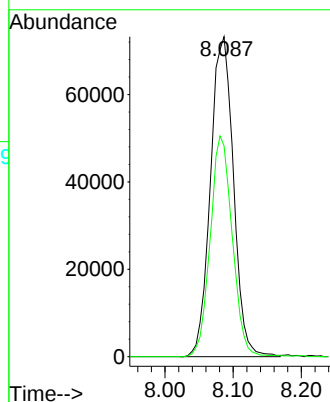
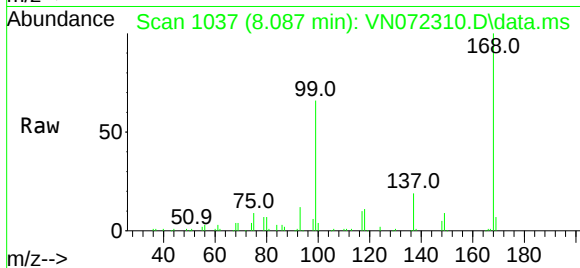




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.087 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

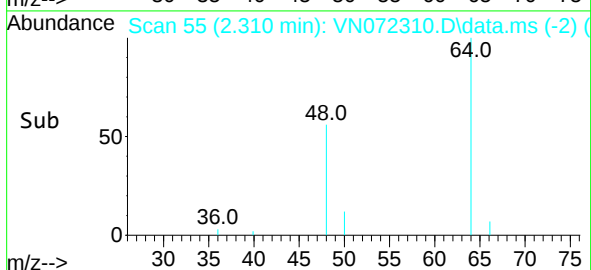
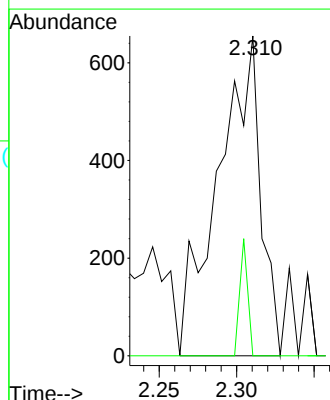
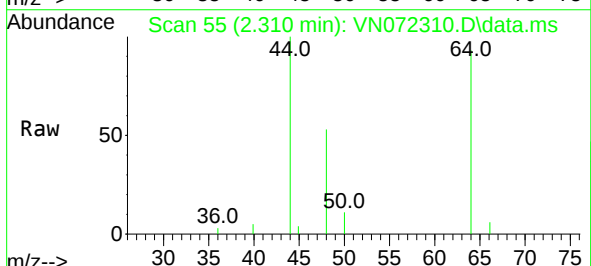
Instrument :
MSVOA_N
ClientSampleId :
IBLK

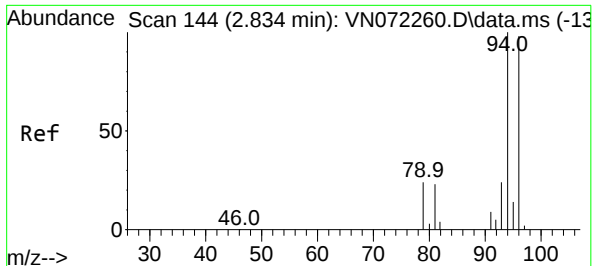
Tgt Ion:168 Resp: 172136
Ion Ratio Lower Upper
168 100
99 65.9 42.3 63.5#



#3
Chloromethane
Concen: Below Cal
RT: 2.310 min Scan# 55
Delta R.T. 0.011 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

Tgt Ion: 50 Resp: 1241
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#





#5

Bromomethane

Concen: Below Cal

RT: 2.863 min Scan# 144

Delta R.T. 0.029 min

Lab File: VN072310.D

Acq: 03 May 2022 17:44

Instrument :

MSVOA_N

ClientSampleId :

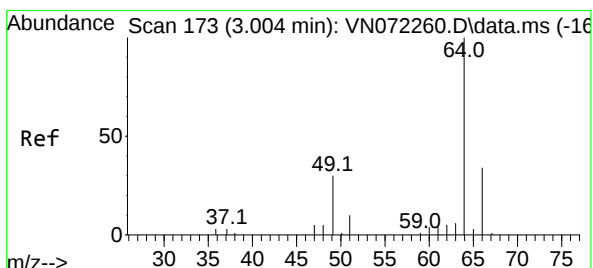
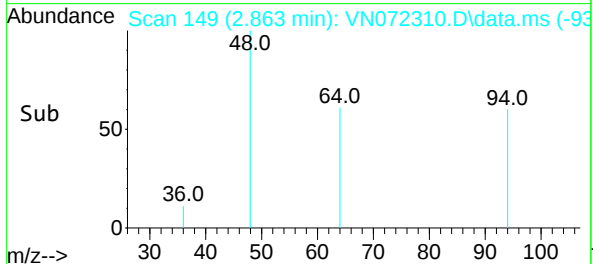
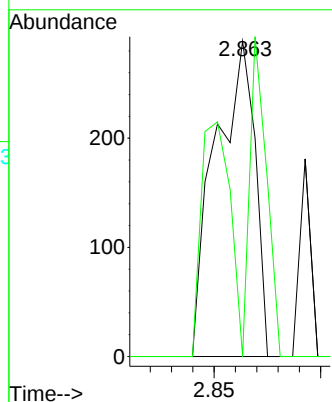
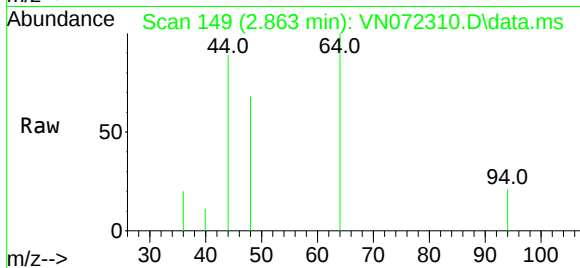
IBLK

Tgt Ion: 94 Resp: 373

Ion Ratio Lower Upper

94 100

96 0.0 76.0 114.0#



#6

Chloroethane

Concen: Below Cal

RT: 2.963 min Scan# 166

Delta R.T. -0.042 min

Lab File: VN072310.D

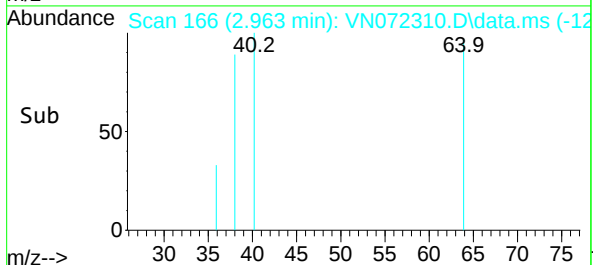
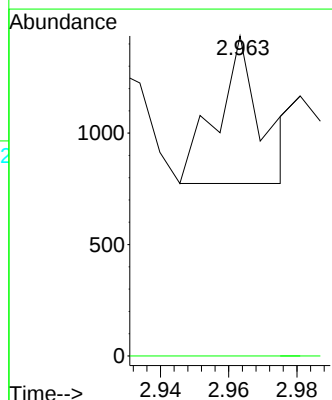
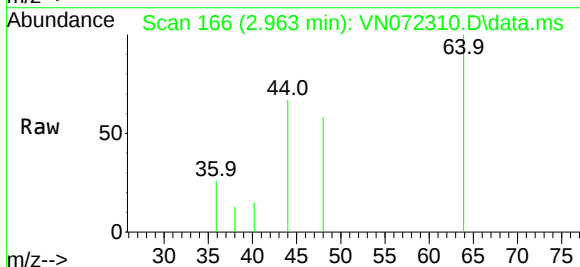
Acq: 03 May 2022 17:44

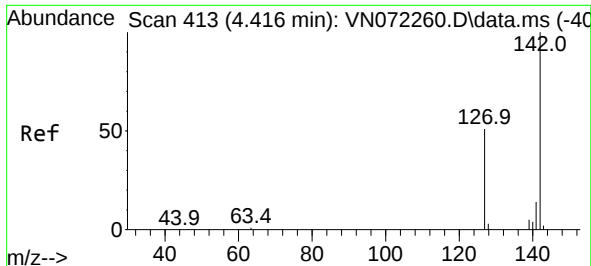
Tgt Ion: 64 Resp: 594

Ion Ratio Lower Upper

64 100

66 0.0 26.2 39.4#

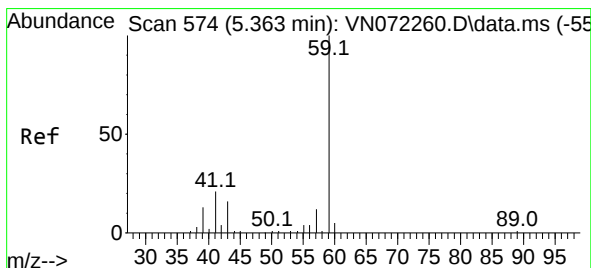
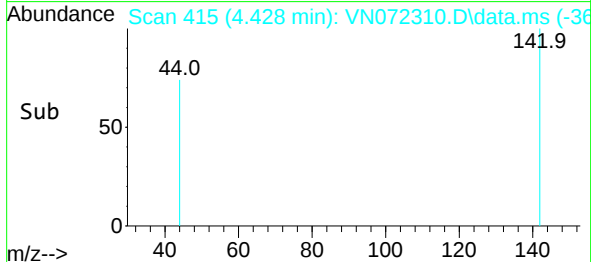
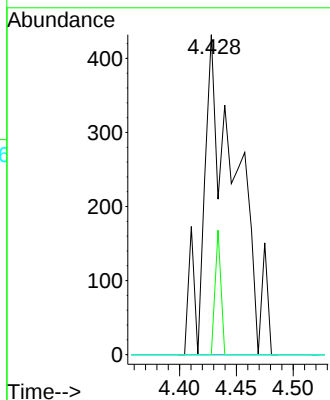
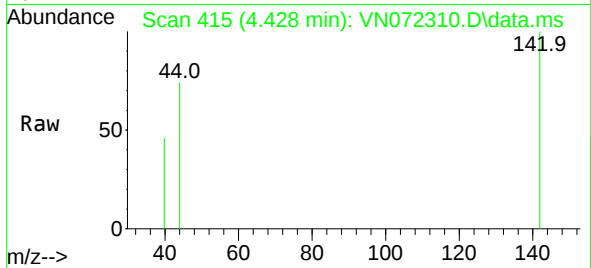




#10
Methyl Iodide
Concen: 0.403 ug/l
RT: 4.428 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

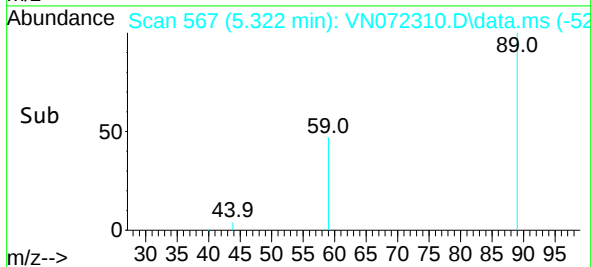
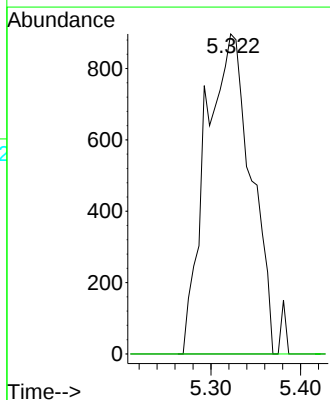
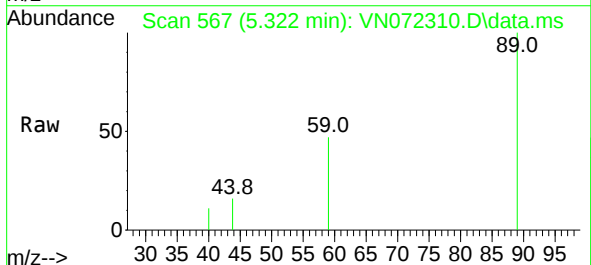
Instrument :
MSVOA_N
ClientSampleId :
IBLK

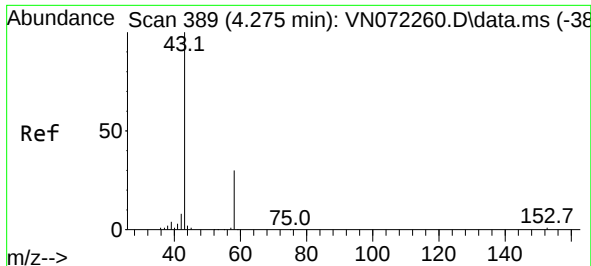
Tgt Ion:142 Resp: 869
Ion Ratio Lower Upper
142 100
127 6.8 31.3 46.9#
141 0.0 11.2 16.8#



#11
Tert butyl alcohol
Concen: 7.212 ug/l
RT: 5.322 min Scan# 567
Delta R.T. -0.041 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

Tgt Ion: 59 Resp: 3132
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#16

Acetone

Concen: 1.332 ug/l

RT: 4.299 min Scan# 393

Delta R.T. 0.018 min

Lab File: VN072310.D

Acq: 03 May 2022 17:44

Instrument :

MSVOA_N

ClientSampleId :

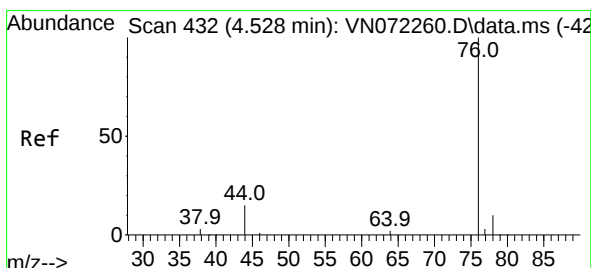
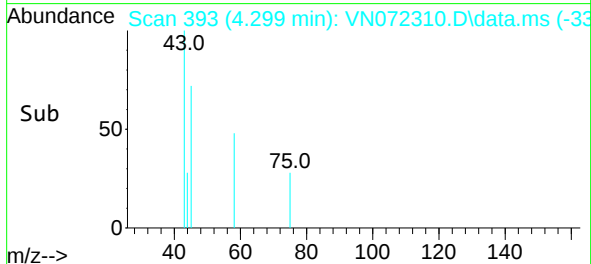
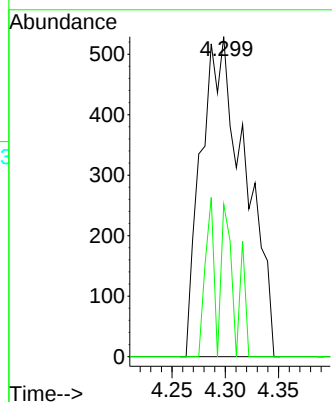
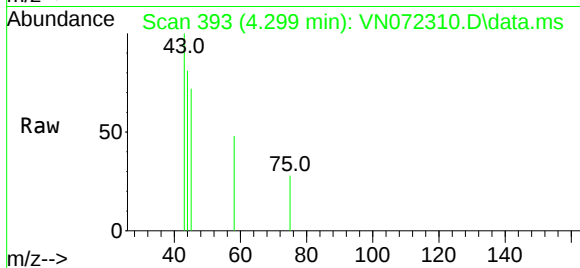
IBLK

Tgt Ion: 43 Resp: 1518

Ion Ratio Lower Upper

43 100

58 47.6 26.0 39.0#



#17

Carbon Disulfide

Concen: 0.539 ug/l

RT: 4.528 min Scan# 432

Delta R.T. -0.006 min

Lab File: VN072310.D

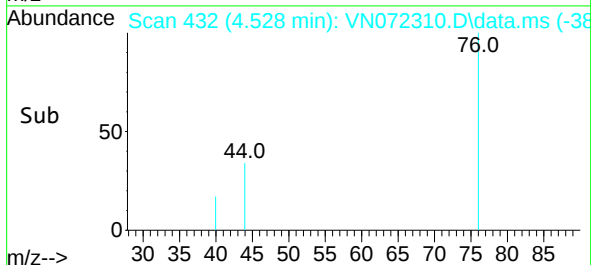
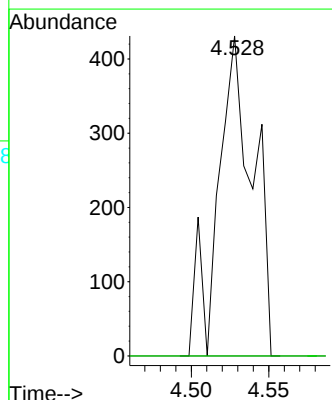
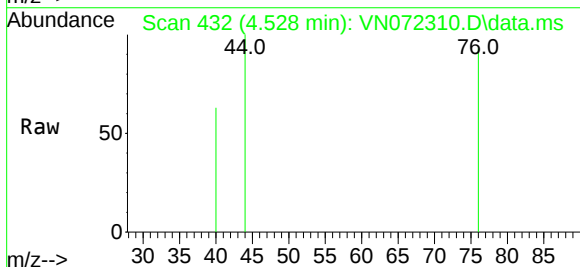
Acq: 03 May 2022 17:44

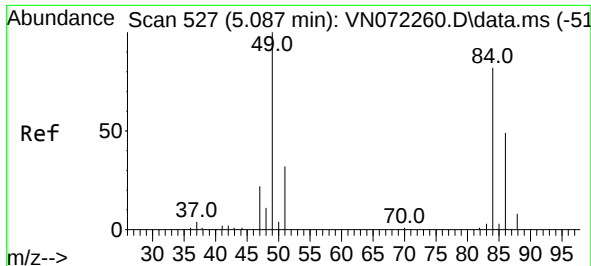
Tgt Ion: 76 Resp: 686

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

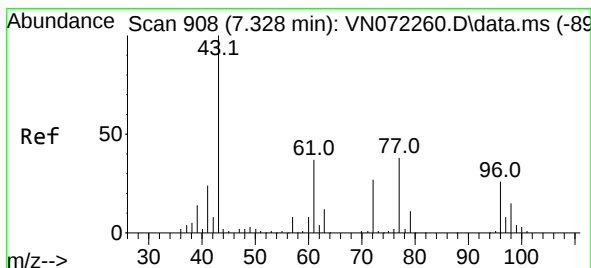
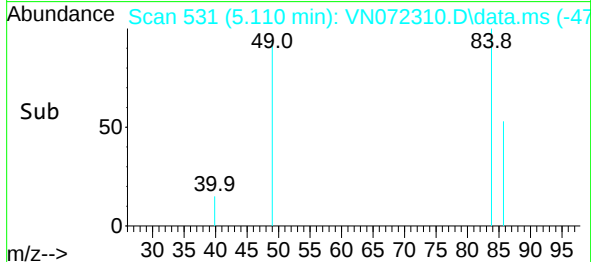
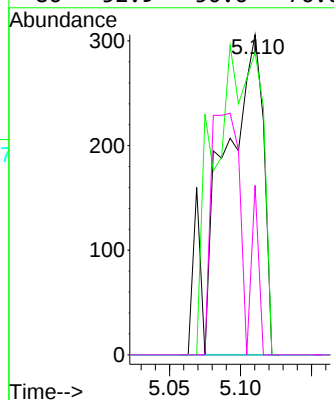
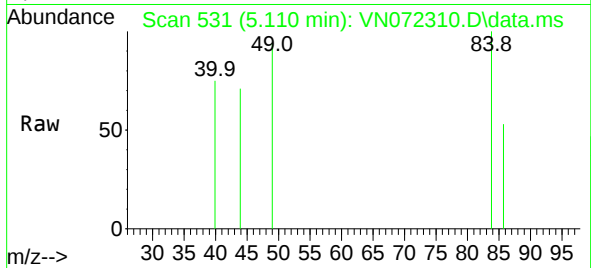




#20
Methylene Chloride
Concen: 0.281 ug/l
RT: 5.110 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

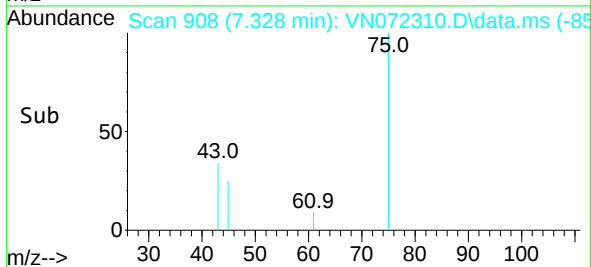
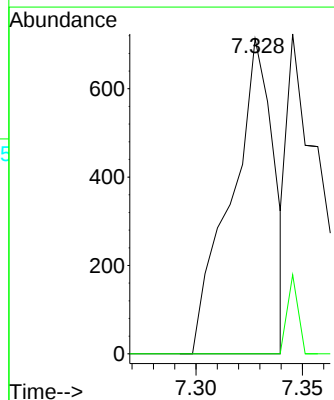
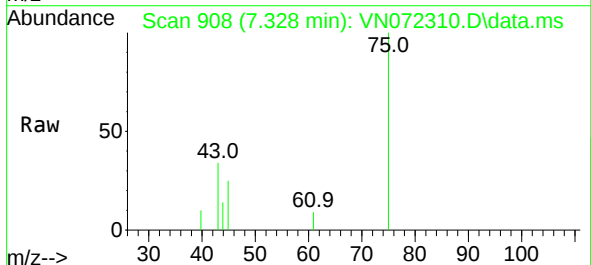
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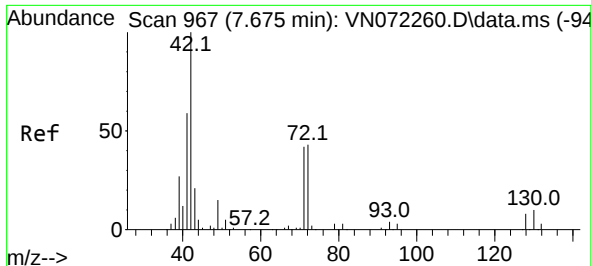
Tgt Ion: 84	Resp: 613
Ion Ratio	Lower Upper
84 100	
49 94.4	88.3 132.5
51 0.0	28.2 42.2#
86 52.9	50.6 76.0



#25
2-Butanone
Concen: 0.553 ug/l
RT: 7.328 min Scan# 908
Delta R.T. -0.000 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

Tgt Ion: 43	Resp: 1003		
Ion Ratio	Lower	Upper	
43 100			
72 0.0	23.7	35.5#	





#29

Tetrahydrofuran

Concen: 0.380 ug/l

RT: 7.698 min Scan# 91

Delta R.T. 0.017 min

Lab File: VN072310.D

Acq: 03 May 2022 17:44

Instrument :

MSVOA_N

ClientSampleId :

IBLK

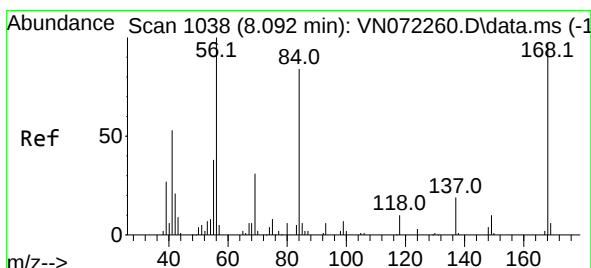
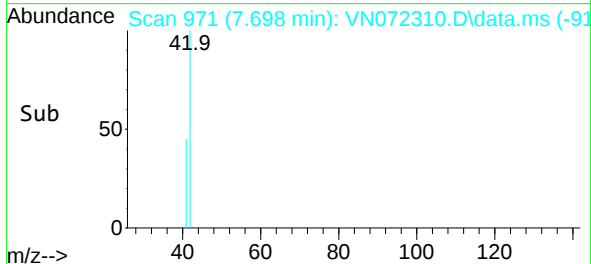
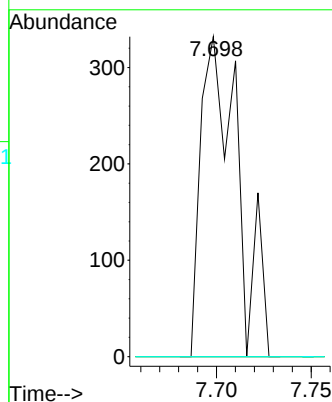
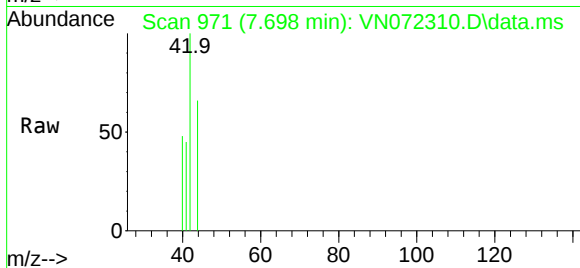
Tgt Ion: 42 Resp: 452

Ion Ratio Lower Upper

42 100

72 0.0 39.7 59.5#

71 0.0 36.6 55.0#



#31

Cyclohexane

Concen: 1.272 ug/l

RT: 8.087 min Scan# 1037

Delta R.T. -0.005 min

Lab File: VN072310.D

Acq: 03 May 2022 17:44

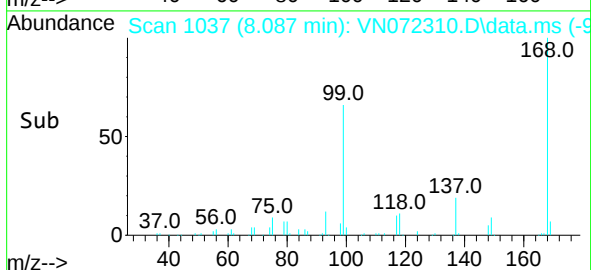
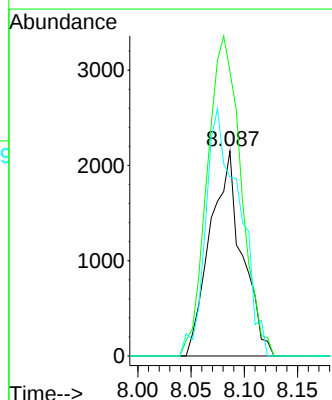
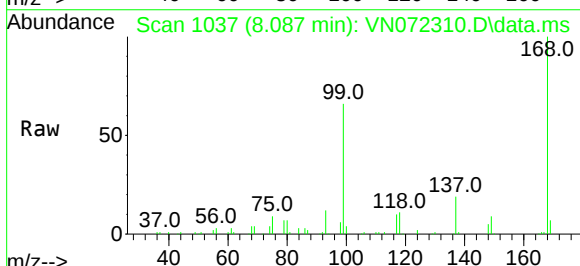
Tgt Ion: 56 Resp: 4491

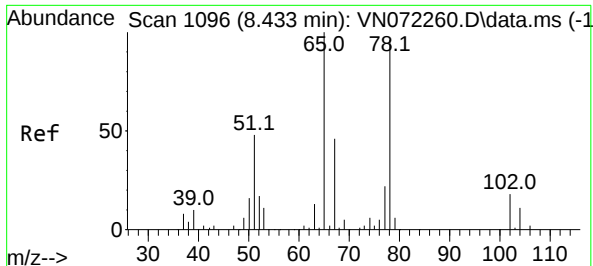
Ion Ratio Lower Upper

56 100

69 139.0 27.8 41.8#

84 87.3 76.9 115.3





#33

1,2-Dichloroethane-d4

Concen: 52.202 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.000 min

Lab File: VN072310.D

Acq: 03 May 2022 17:44

Instrument :

MSVOA_N

ClientSampleId :

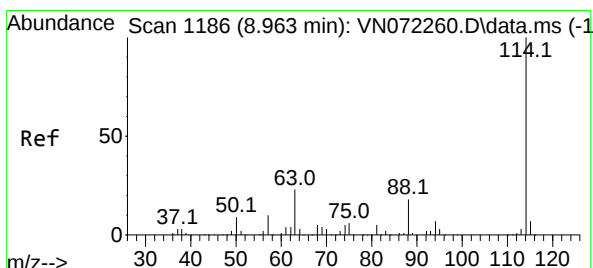
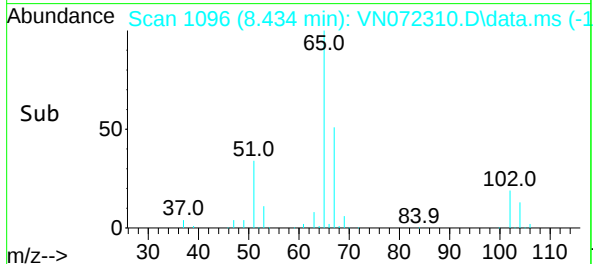
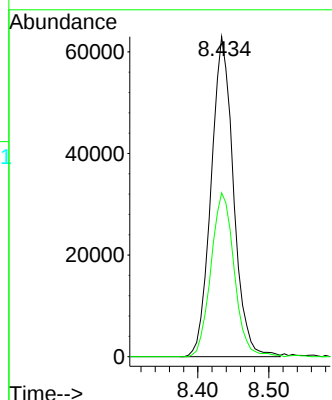
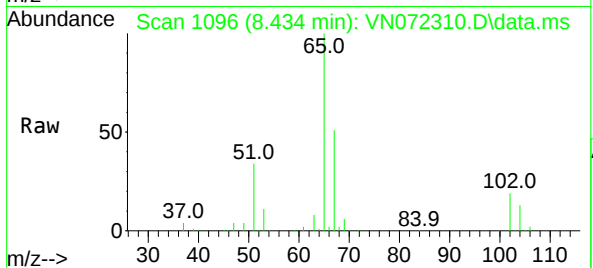
IBLK

Tgt Ion: 65 Resp: 137953

Ion Ratio Lower Upper

65 100

67 53.0 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. -0.000 min

Lab File: VN072310.D

Acq: 03 May 2022 17:44

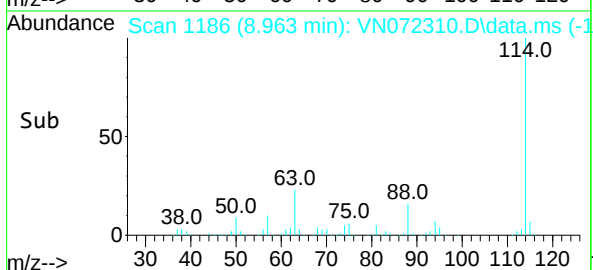
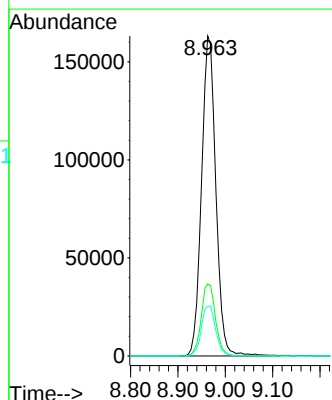
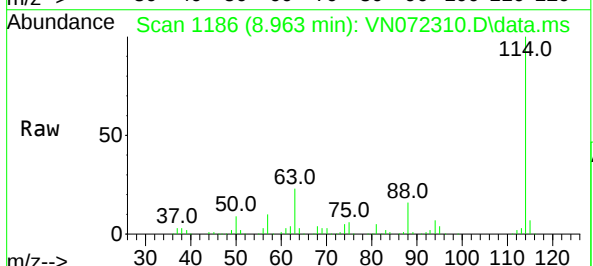
Tgt Ion: 114 Resp: 342230

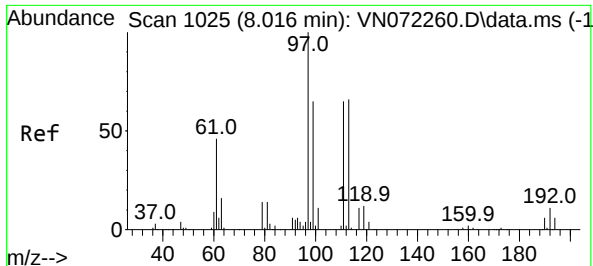
Ion Ratio Lower Upper

114 100

63 22.5 0.0 40.0

88 15.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.423 ug/l

RT: 8.022 min Scan# 1037

Delta R.T. 0.006 min

Lab File: VN072310.D

Acq: 03 May 2022 17:44

Instrument :

MSVOA_N

ClientSampleId :

IBLK

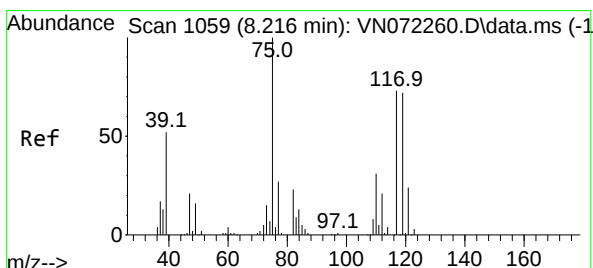
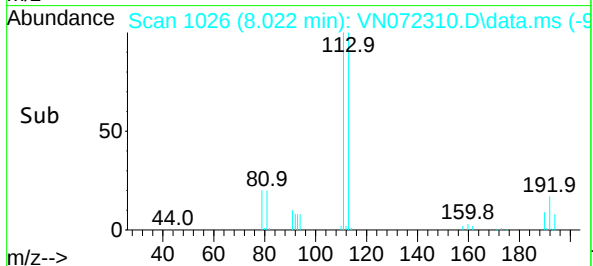
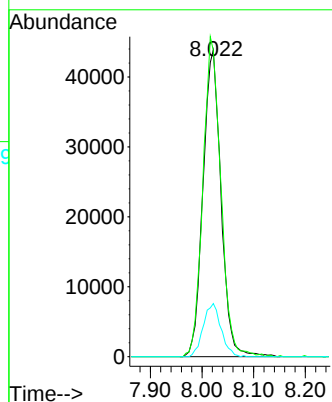
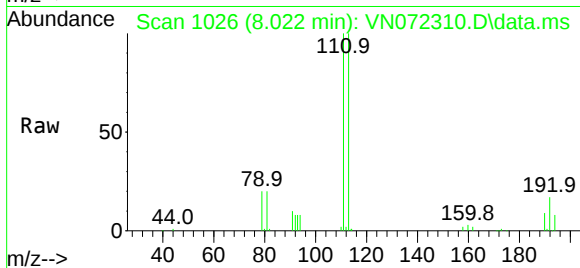
Tgt Ion:113 Resp: 106069

Ion Ratio Lower Upper

113 100

111 103.7 81.4 122.0

192 17.2 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.820 ug/l

RT: 8.087 min Scan# 1037

Delta R.T. -0.129 min

Lab File: VN072310.D

Acq: 03 May 2022 17:44

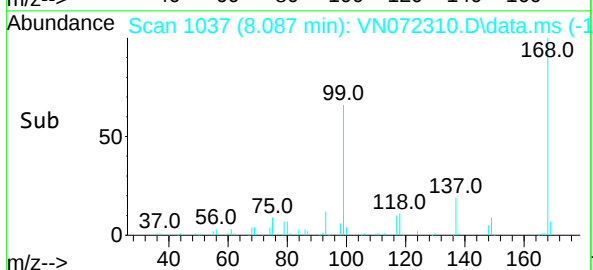
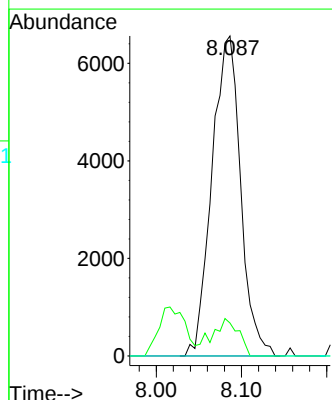
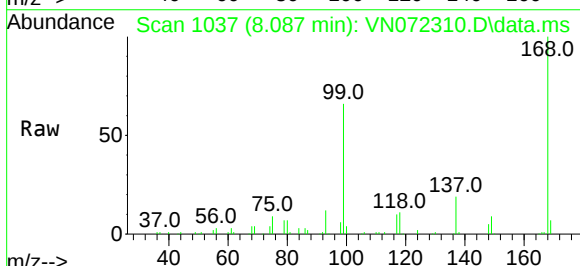
Tgt Ion: 75 Resp: 15367

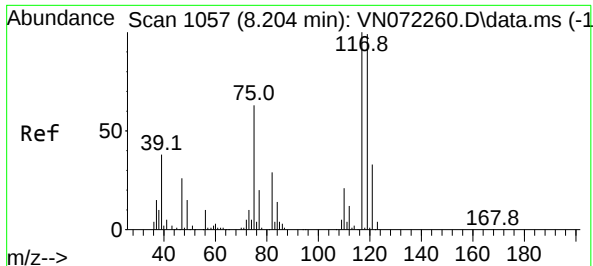
Ion Ratio Lower Upper

75 100

110 10.9 18.3 54.8#

77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.271 ug/l

RT: 8.081 min Scan# 110

Delta R.T. -0.123 min

Lab File: VN072310.D

Acq: 03 May 2022 17:44

Instrument :

MSVOA_N

ClientSampleId :

IBLK

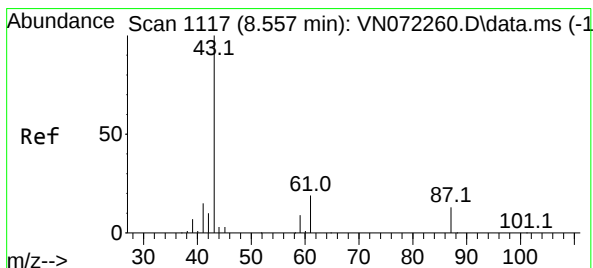
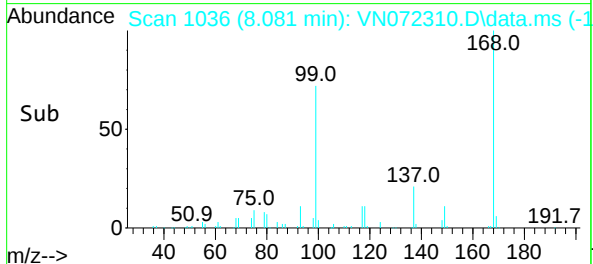
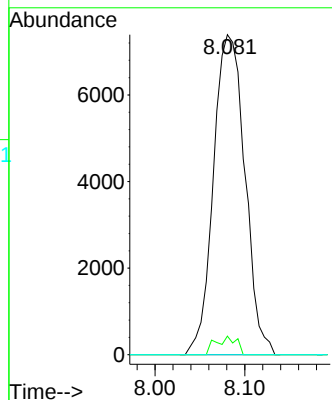
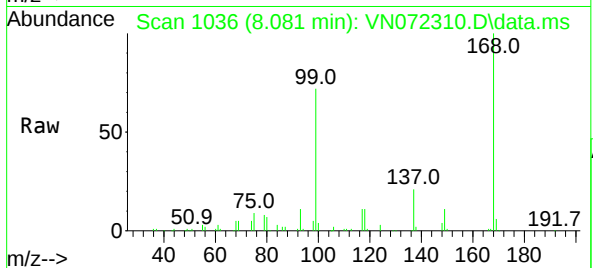
Tgt Ion:117 Resp: 18001

Ion Ratio Lower Upper

117 100

119 5.8 75.8 113.8#

121 0.0 24.6 37.0#



#43

Isopropyl Acetate

Concen: 0.811 ug/l

RT: 8.569 min Scan# 1119

Delta R.T. 0.012 min

Lab File: VN072310.D

Acq: 03 May 2022 17:44

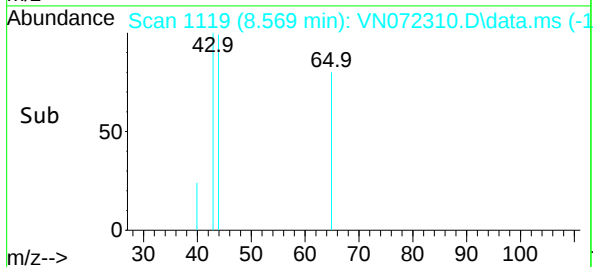
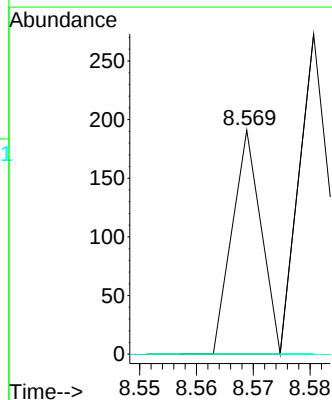
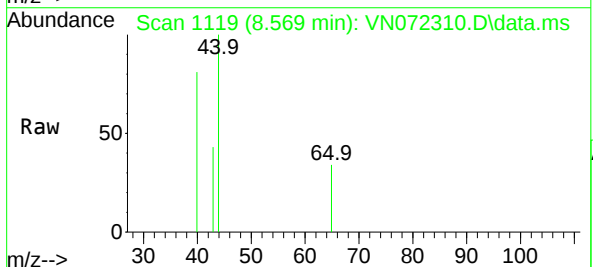
Tgt Ion: 43 Resp: 67

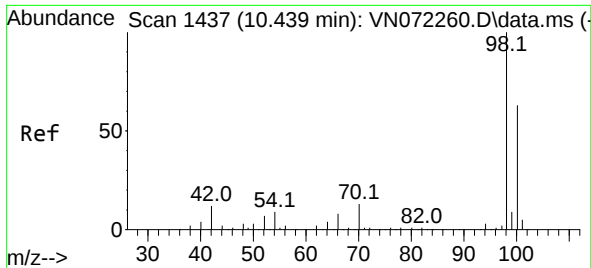
Ion Ratio Lower Upper

43 100

61 0.0 21.9 32.9#

87 0.0 12.0 18.0#

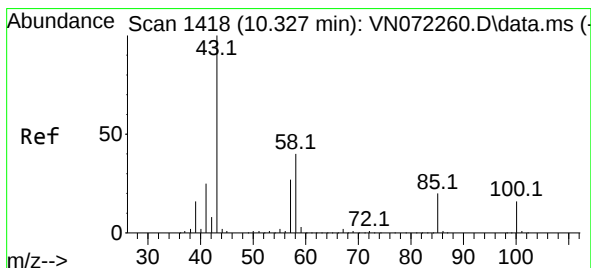
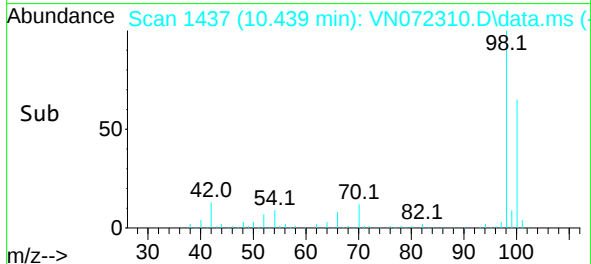
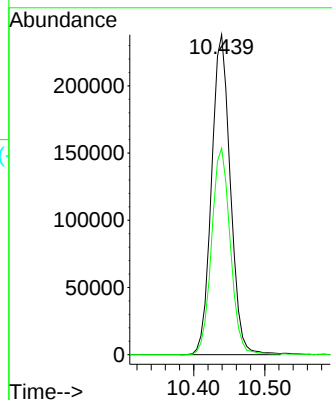
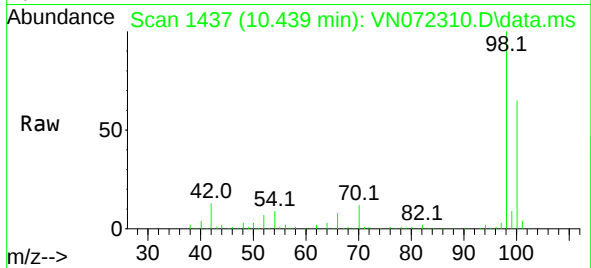




#50
Toluene-d8
Concen: 50.748 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

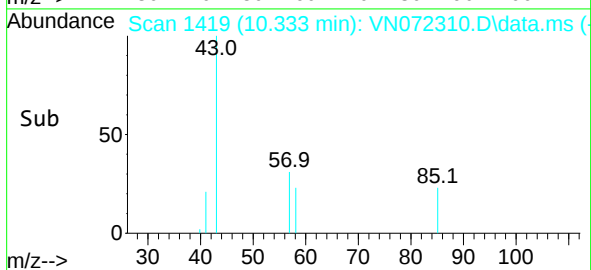
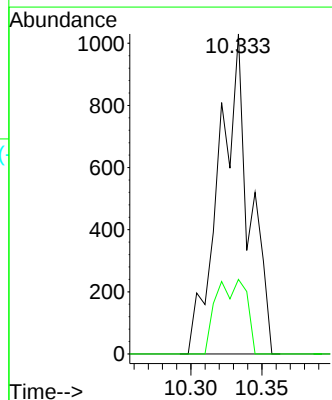
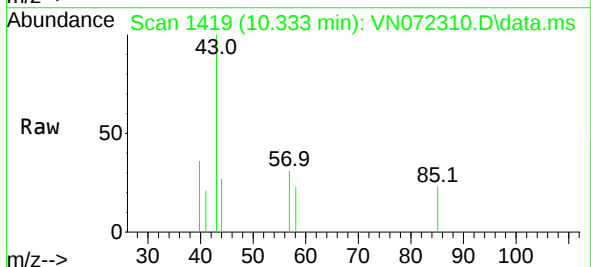
Instrument :
MSVOA_N
ClientSampleId :
IBLK

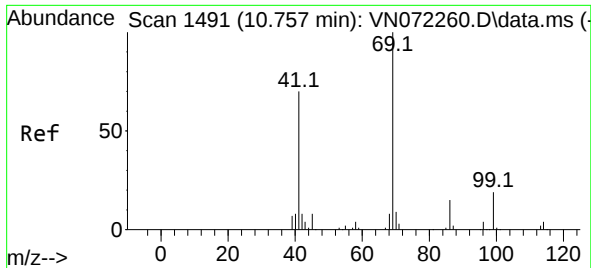
Tgt Ion: 98 Resp: 436798
Ion Ratio Lower Upper
98 100
100 64.5 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.383 ug/l
RT: 10.333 min Scan# 1419
Delta R.T. 0.005 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

Tgt Ion: 43 Resp: 1530
Ion Ratio Lower Upper
43 100
58 23.3 34.1 51.1#

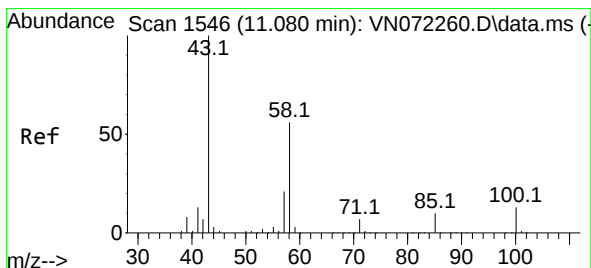
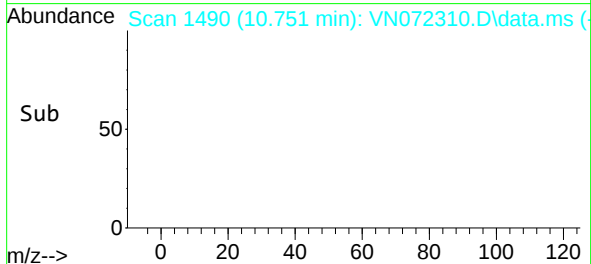
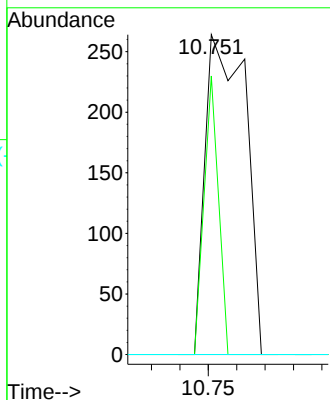
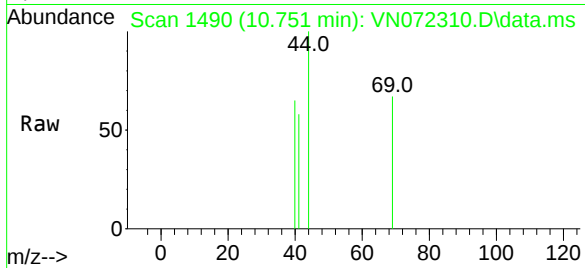




#56
Ethyl methacrylate
Concen: 2.422 ug/l
RT: 10.751 min Scan# 1491
Delta R.T. -0.006 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

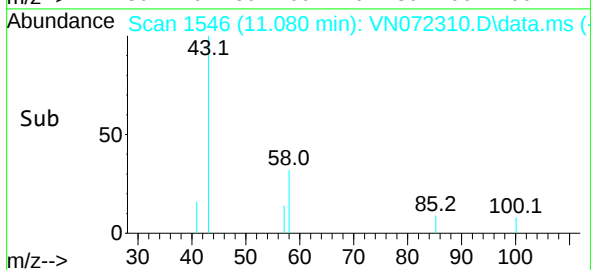
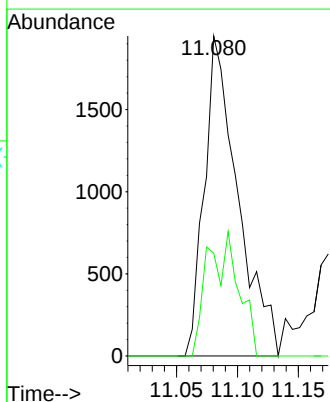
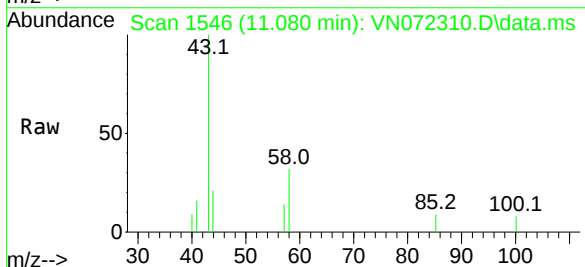
Instrument :
MSVOA_N
ClientSampleId :
IBLK

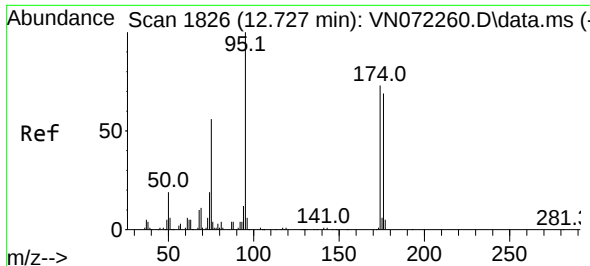
Tgt Ion: 69 Resp: 259
Ion Ratio Lower Upper
69 100
41 31.3 47.8 71.6#
39 0.0 27.3 40.9#



#59
2-Hexanone
Concen: 1.323 ug/l
RT: 11.080 min Scan# 1546
Delta R.T. -0.001 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

Tgt Ion: 43 Resp: 3724
Ion Ratio Lower Upper
43 100
58 18.5 29.7 89.1#

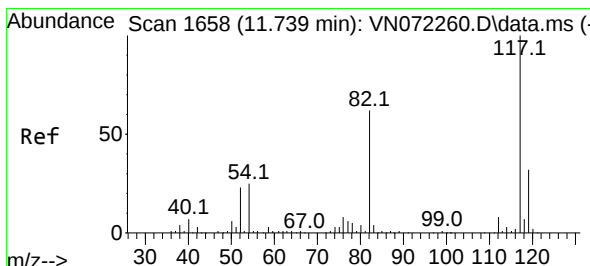
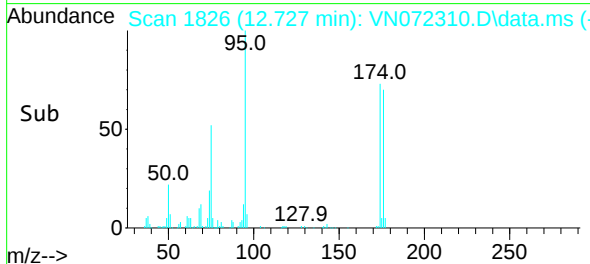
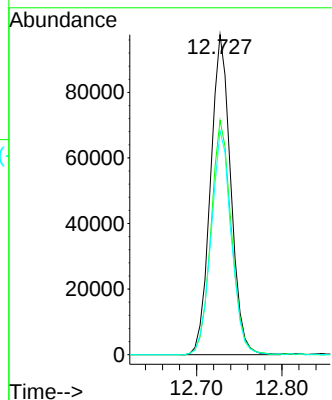
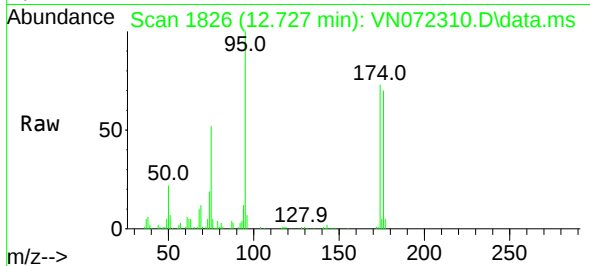




#62
4-Bromofluorobenzene
Concen: 56.252 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

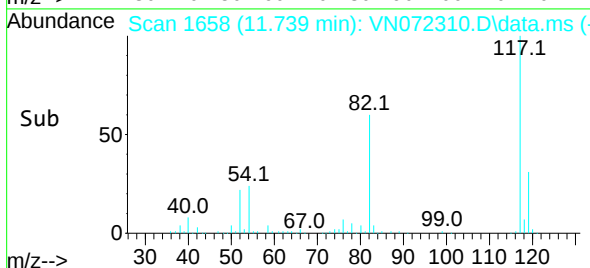
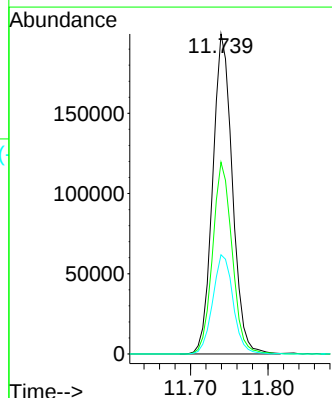
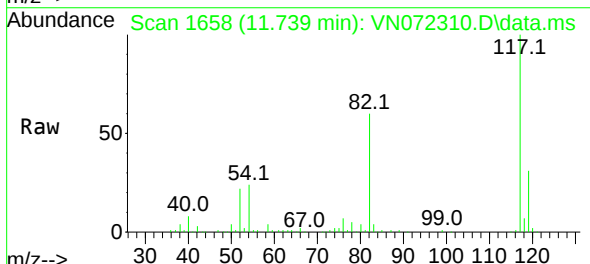
Instrument :
MSVOA_N
ClientSampleId :
IBLK

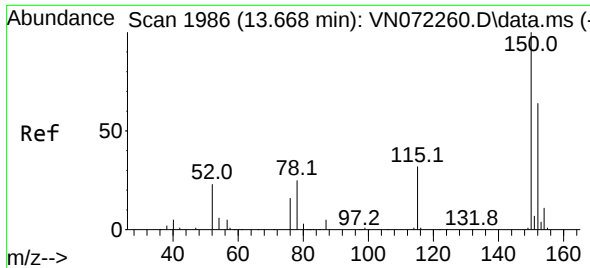
Tgt Ion: 95 Resp: 160705
Ion Ratio Lower Upper
95 100
174 73.7 0.0 167.6
176 70.2 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

Tgt Ion: 117 Resp: 352846
Ion Ratio Lower Upper
117 100
82 59.9 44.2 66.2
119 31.0 25.4 38.0

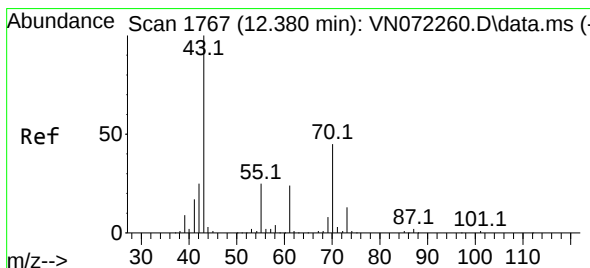
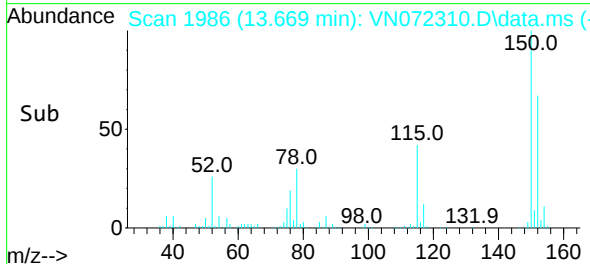
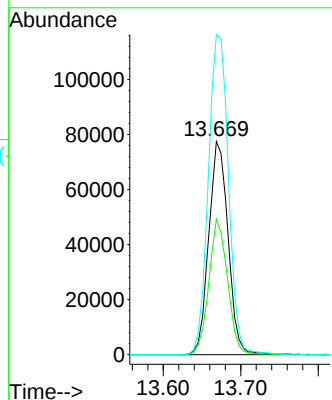
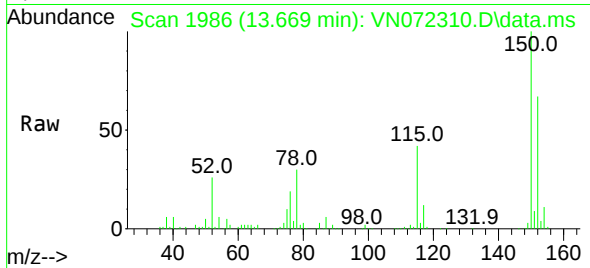




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.669 min Scan# 1986
 Delta R.T. -0.000 min
 Lab File: VN072310.D
 Acq: 03 May 2022 17:44

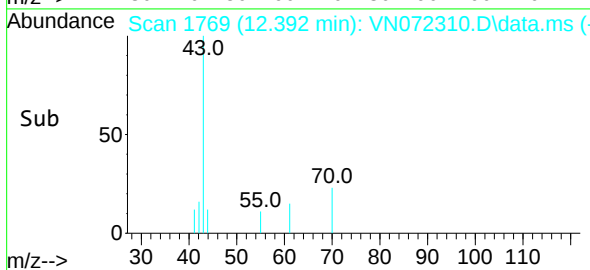
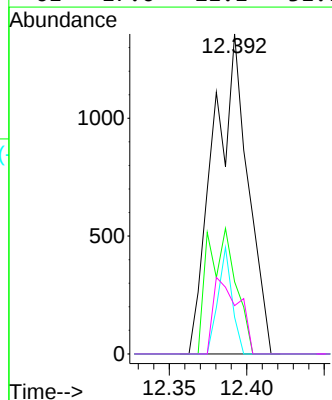
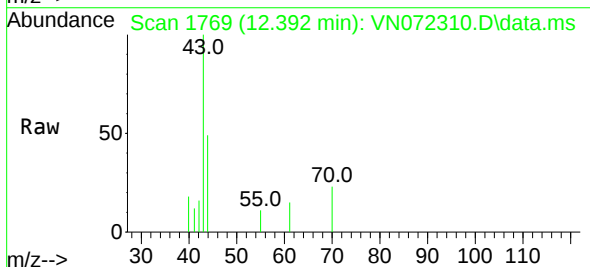
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

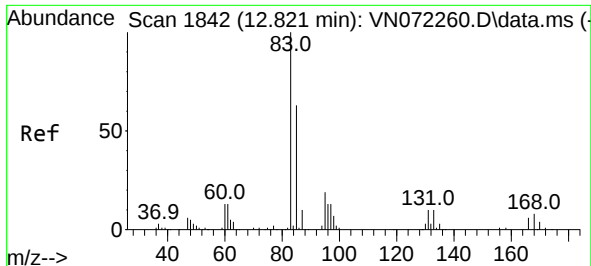
Tgt Ion:152 Resp: 134217
 Ion Ratio Lower Upper
 152 100
 115 61.7 28.9 86.7
 150 156.9 0.0 356.2



#74
 N-ethyl acetate
 Concen: 0.474 ug/l
 RT: 12.392 min Scan# 1769
 Delta R.T. 0.012 min
 Lab File: VN072310.D
 Acq: 03 May 2022 17:44

Tgt Ion: 43 Resp: 2103
 Ion Ratio Lower Upper
 43 100
 70 31.5 39.0 58.4#
 55 13.5 21.1 31.7#
 61 17.6 21.1 31.7#

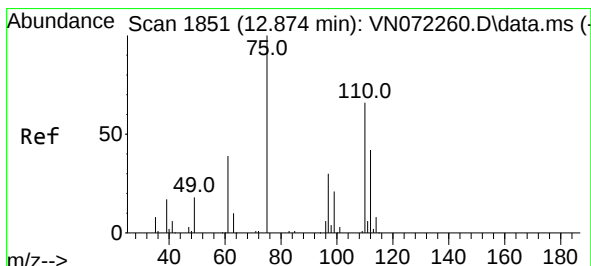
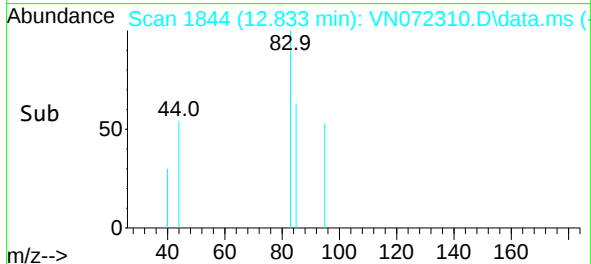
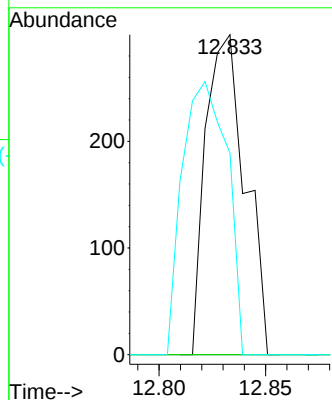
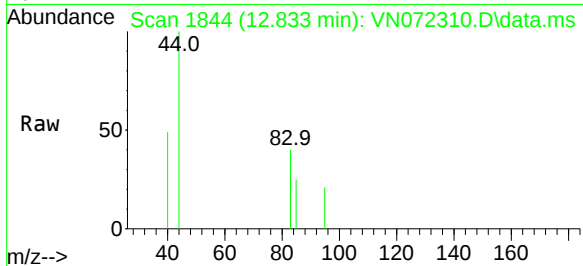




#75
1,1,2-Tetrachloroethane
Concen: Below Cal
RT: 12.833 min Scan# 1844
Delta R.T. 0.011 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

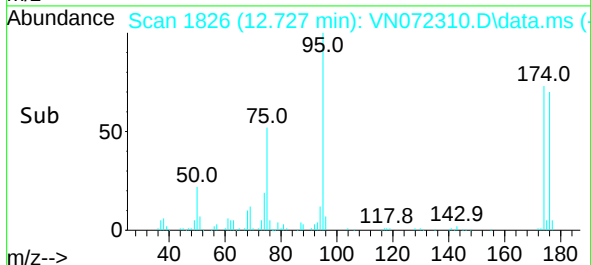
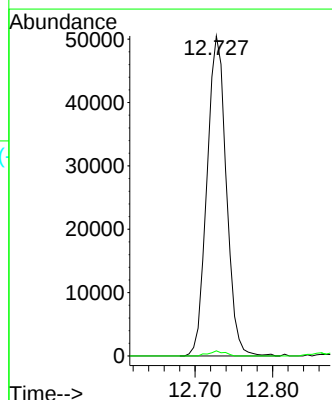
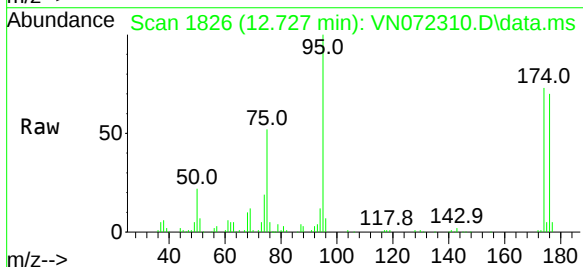
Instrument :
MSVOA_N
ClientSampleId :
IBLK

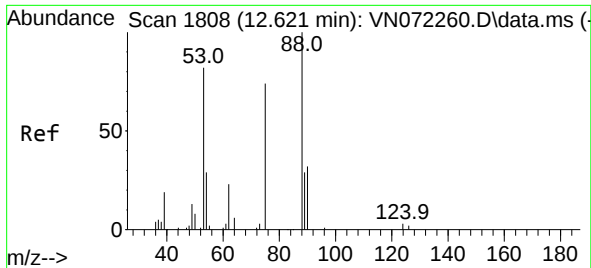
Tgt Ion: 83 Resp: 388
Ion Ratio Lower Upper
83 100
131 0.0 5.3 15.9#
85 96.6 32.3 96.9



#76
1,2,3-Trichloropropane
Concen: 29.024 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.147 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

Tgt Ion: 75 Resp: 87487
Ion Ratio Lower Upper
75 100
77 1.3 98.5 295.5#

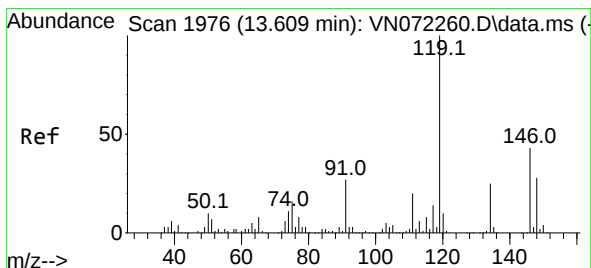
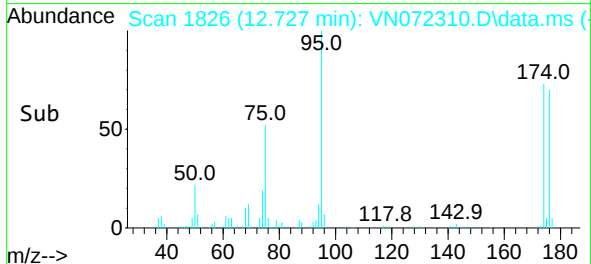
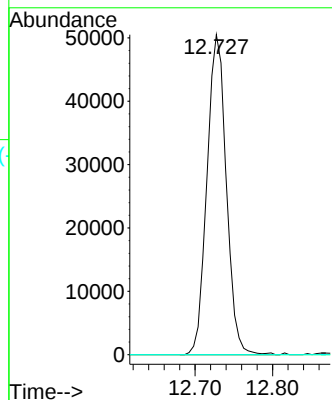
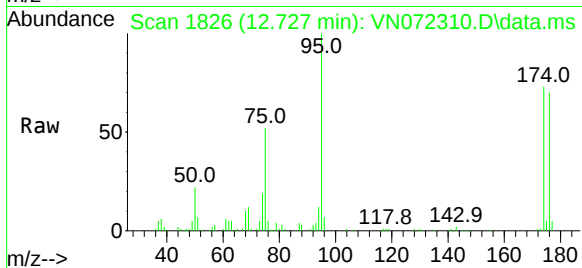




#81
trans-1,4-Dichloro-2-butene
Concen: 75.369 ug/l
RT: 12.727 min Scan# 1808
Delta R.T. 0.105 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

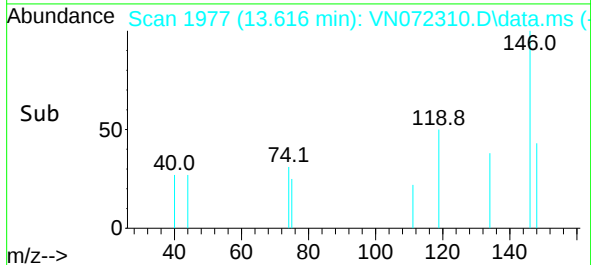
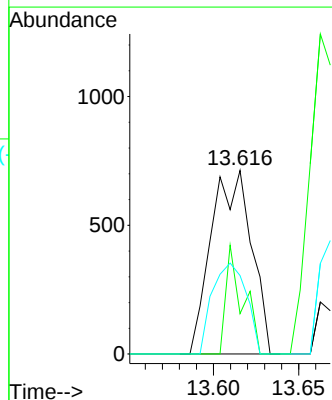
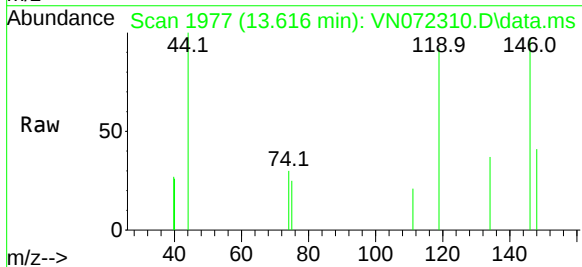
Instrument :
MSVOA_N
ClientSampleId :
IBLK

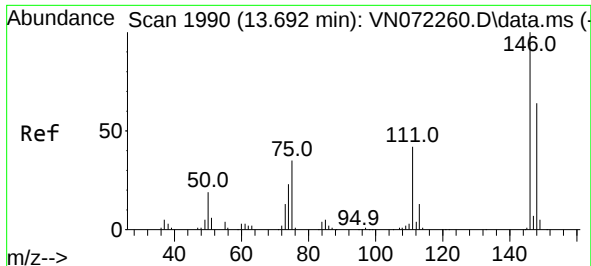
Tgt Ion: 75 Resp: 87487
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#87
1,3-Dichlorobenzene
Concen: 0.258 ug/l
RT: 13.616 min Scan# 1977
Delta R.T. 0.006 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

Tgt Ion:146 Resp: 1172
Ion Ratio Lower Upper
146 100
111 24.8 20.0 60.0
148 41.7 32.0 96.0

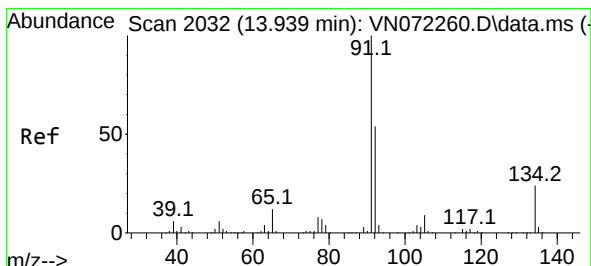
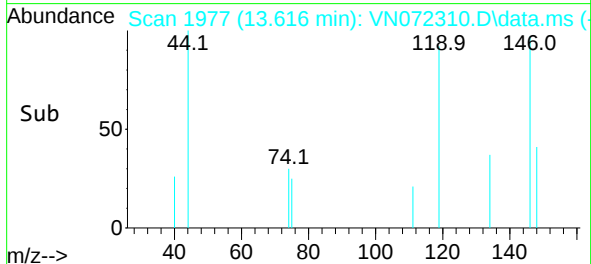
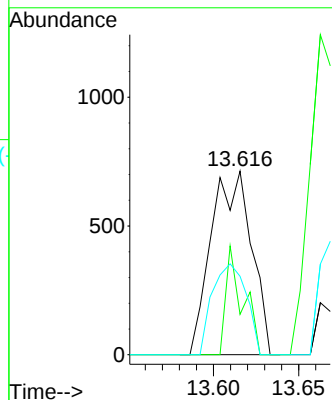
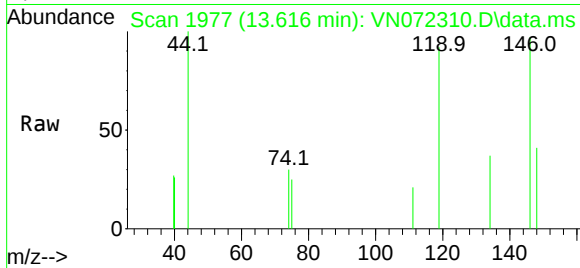




#88
1,4-Dichlorobenzene
Concen: 0.266 ug/l
RT: 13.616 min Scan# 1977
Delta R.T. -0.076 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

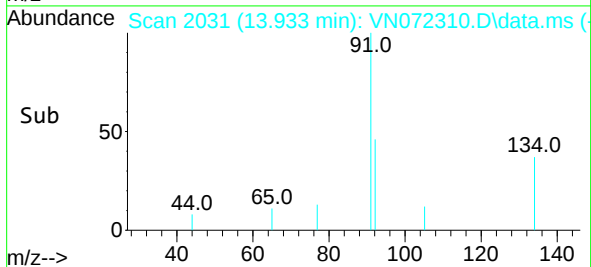
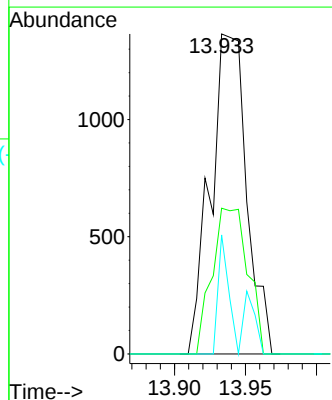
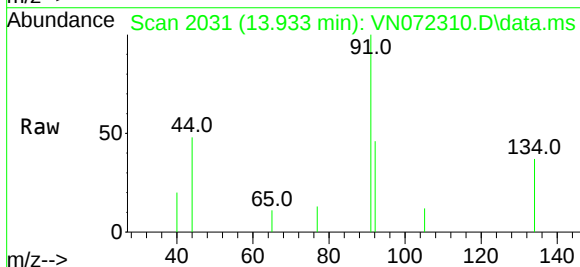
Instrument :
MSVOA_N
ClientSampleId :
IBLK

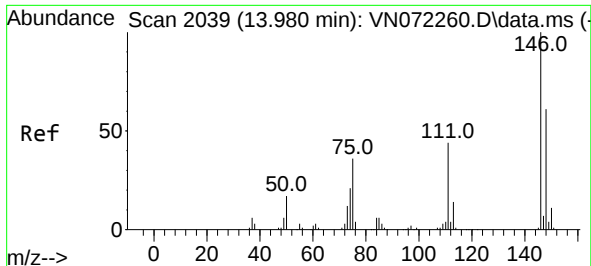
Tgt Ion:146 Resp: 1172
Ion Ratio Lower Upper
146 100
111 24.8 19.1 57.1
148 41.7 31.4 94.3



#89
n-Butylbenzene
Concen: 0.359 ug/l
RT: 13.933 min Scan# 2031
Delta R.T. -0.006 min
Lab File: VN072310.D
Acq: 03 May 2022 17:44

Tgt Ion: 91 Resp: 2421
Ion Ratio Lower Upper
91 100
92 45.0 26.9 80.7
134 10.8 13.6 40.8#

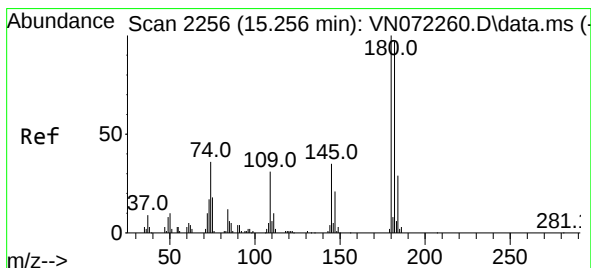
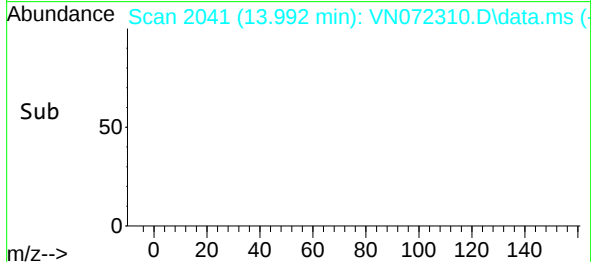
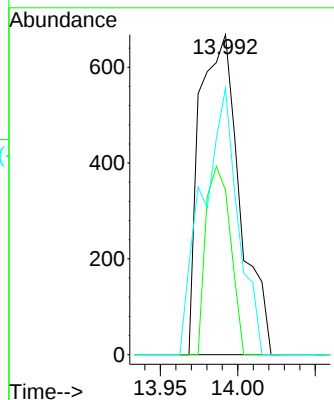
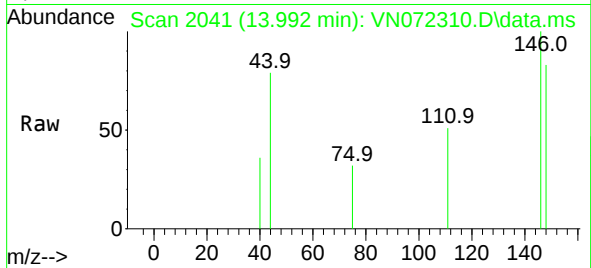




#91
 1,2-Dichlorobenzene
 Concen: 0.269 ug/l
 RT: 13.992 min Scan# 2041
 Delta R.T. 0.006 min
 Lab File: VN072310.D
 Acq: 03 May 2022 17:44

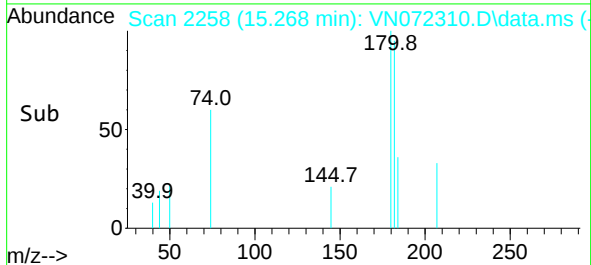
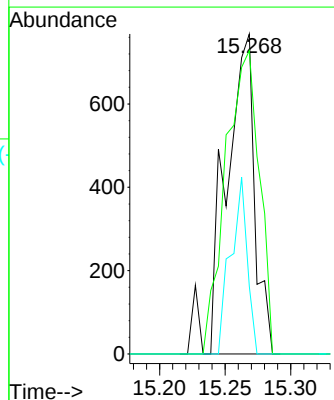
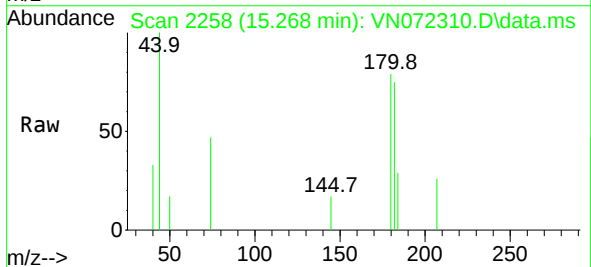
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

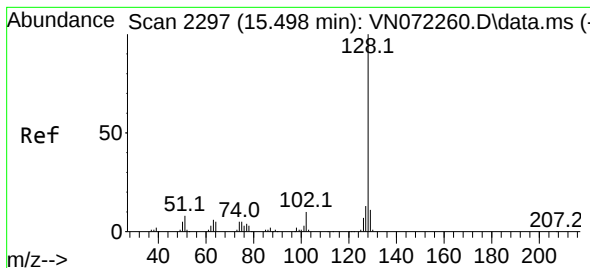
Tgt Ion:146 Resp: 1201
 Ion Ratio Lower Upper
 146 100
 111 36.1 20.9 62.8
 148 73.9 32.1 96.3



#93
 1,2,4-Trichlorobenzene
 Concen: 2.967 ug/l
 RT: 15.268 min Scan# 2258
 Delta R.T. 0.011 min
 Lab File: VN072310.D
 Acq: 03 May 2022 17:44

Tgt Ion:180 Resp: 1189
 Ion Ratio Lower Upper
 180 100
 182 108.7 47.5 142.5
 145 31.3 14.5 43.5





#95

Naphthalene

Concen: 5.047 ug/l

RT: 15.498 min Scan# 2297

Delta R.T. -0.000 min

Lab File: VN072310.D

Acq: 03 May 2022 17:44

Instrument :

MSVOA_N

ClientSampleId :

IBLK

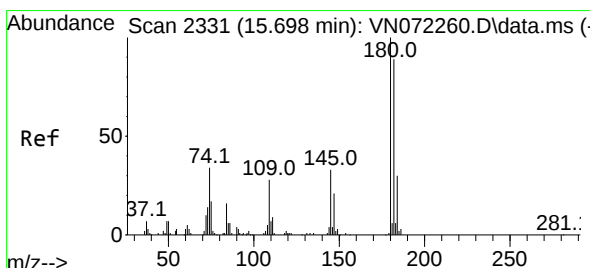
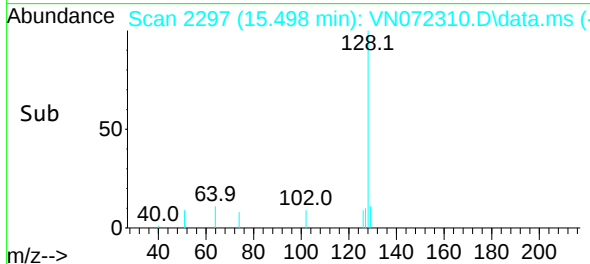
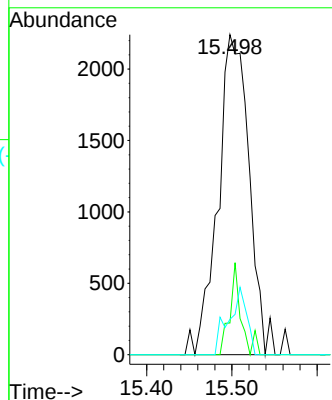
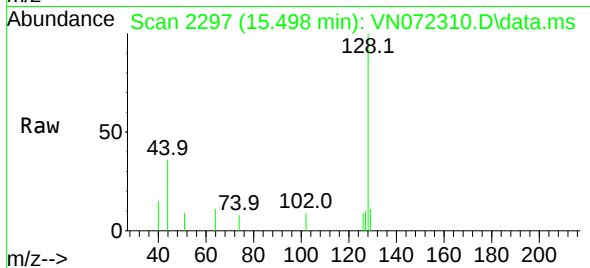
Tgt Ion:128 Resp: 5687

Ion Ratio Lower Upper

128 100

127 10.4 10.3 15.5

129 12.3 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 3.364 ug/l

RT: 15.698 min Scan# 2331

Delta R.T. 0.006 min

Lab File: VN072310.D

Acq: 03 May 2022 17:44

Tgt Ion:180 Resp: 1502

Ion Ratio Lower Upper

180 100

182 102.5 47.8 143.3

145 30.5 15.5 46.5

