

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040822\
 Data File : VN071913.D
 Acq On : 08 Apr 2022 14:31
 Operator : JC\MD
 Sample : N2341-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 09 05:20:52 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 12:03:44 2022
 Response via : Initial Calibration

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

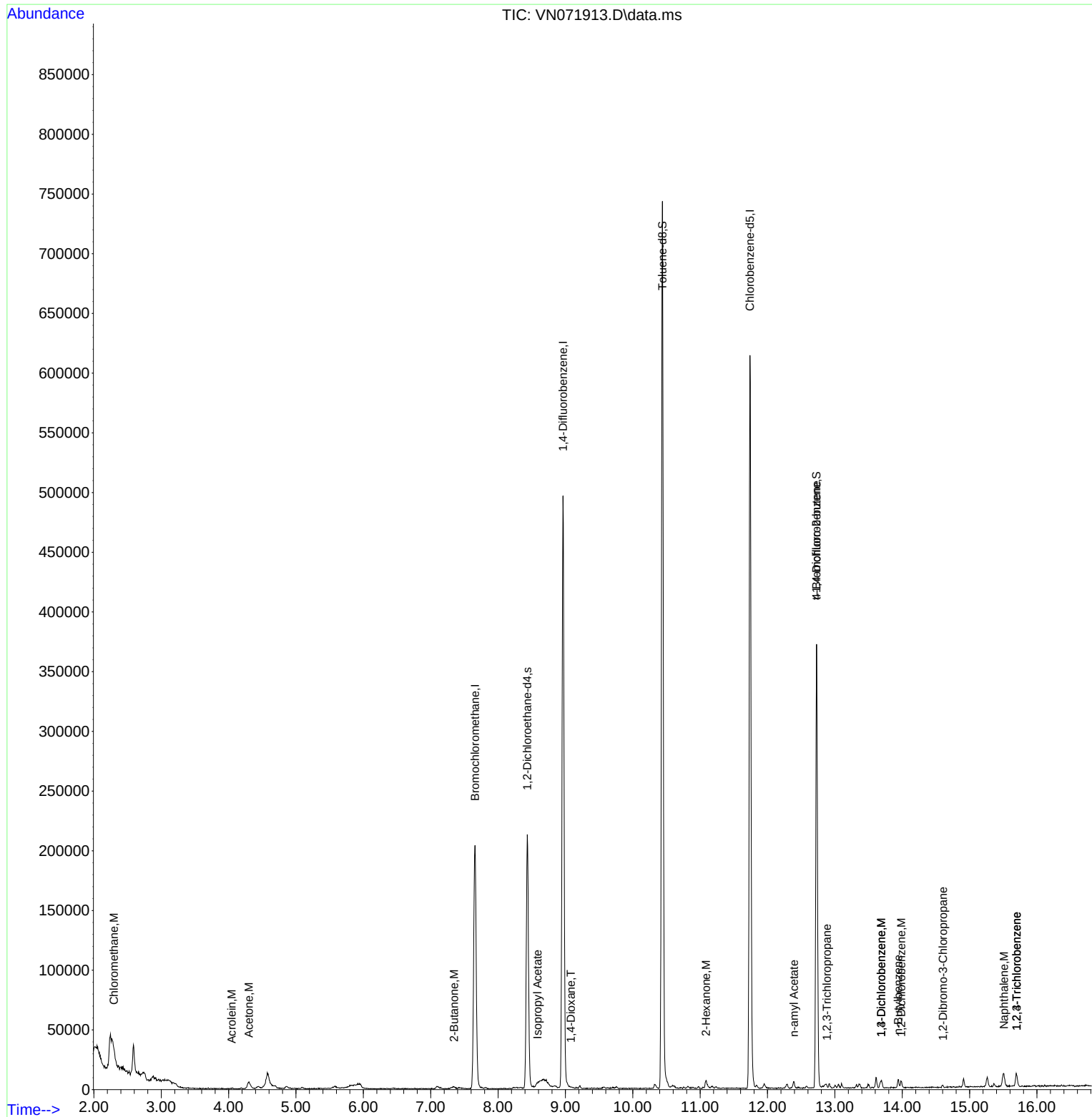
Internal Standards						
1) Bromochloromethane	7.657	128	84828	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	465270	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	395934	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	174317	29.167	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.233%
60) 4-Bromofluorobenzene	12.727	95	136516	23.254	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	77.500%
63) Toluene-d8	10.439	98	545043	30.325	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.100%
Target Compounds						
					Qvalue	
3) Chloromethane	2.299	50	2243	0.360	ug/l #	76
13) Acrolein	4.046	56	292	0.396	ug/l	84
15) Acetone	4.299	58	3190	3.534	ug/l #	49
30) 2-Butanone	7.345	43	2599	0.620	ug/l #	67
44) Isopropyl Acetate	8.586	43	3535	0.271	ug/l #	1
45) 1,4-Dioxane	9.081	88	134	1.019	ug/l #	2
47) n-amyl Acetate	12.392	43	3635	0.418	ug/l	96
59) 2-Hexanone	11.086	43	5990	1.092	ug/l #	88
72) 1,2,3-Trichloropropane	12.880	75	1467	0.207	ug/l	1
77) t-1,4-Dichloro-2-butene	12.727	75	64258	25.850	ug/l #	8
83) 1,3-Dichlorobenzene	13.686	146	3196	0.316	ug/l	90
84) 1,4-Dichlorobenzene	13.686	146	3196	0.331	ug/l	91
85) n-Butylbenzene	13.939	91	4665	0.314	ug/l	98
87) 1,2-Dichlorobenzene	13.986	146	3212	0.329	ug/l	93
88) 1,2-Dibromo-3-Chloropr...	14.604	75	483	0.329	ug/l	87
89) 1,2,4-Trichlorobenzene	15.698	180	5414	1.199	ug/l	91
91) Naphthalene	15.510	128	14910	7.734	ug/l #	79
92) 1,2,3-Trichlorobenzene	15.698	180	5414	1.222	ug/l	98

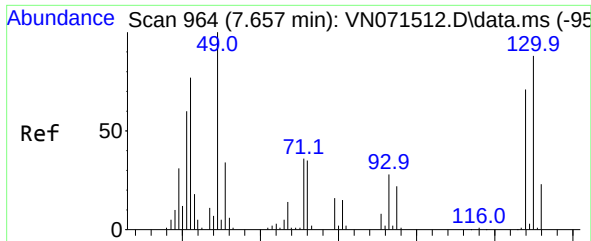
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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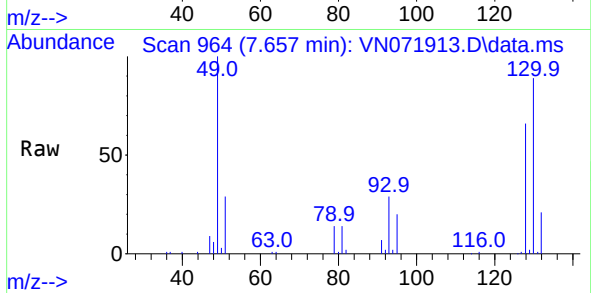
Quant Time: Apr 09 05:20:52 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Mar 24 12:03:44 2022
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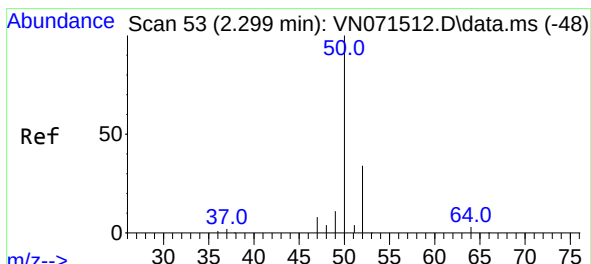
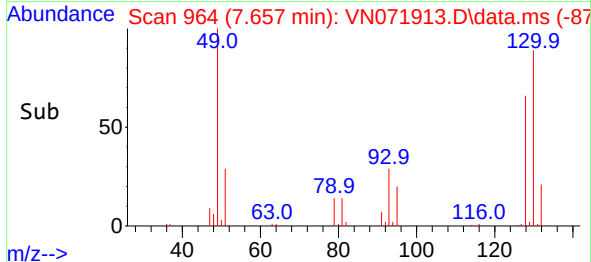
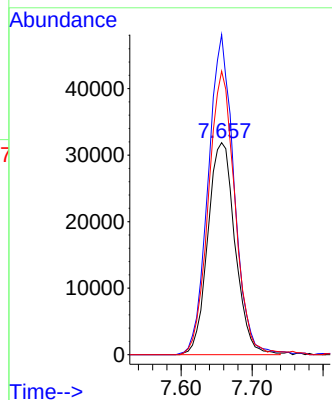


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.657 min Scan# 90
Delta R.T. 0.000 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

Instrument :
MSVOA_N
ClientSampleId :

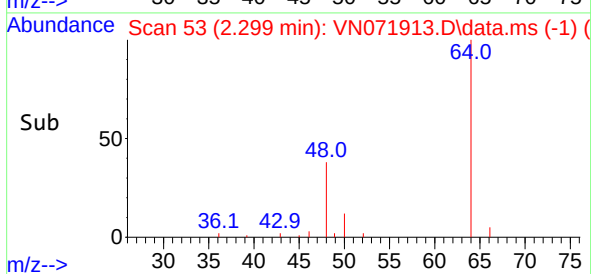
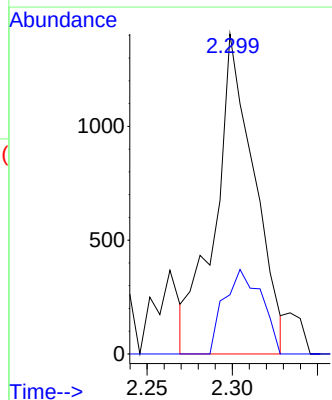
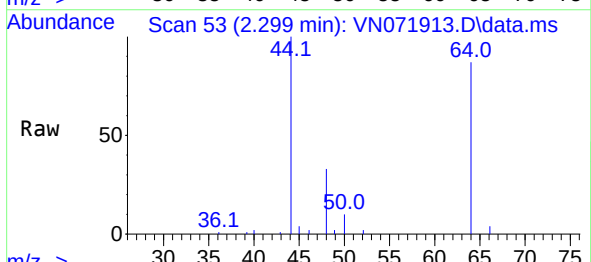


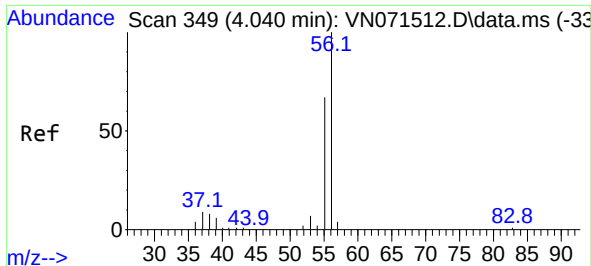
Tgt Ion:128 Resp: 84828
Ion Ratio Lower Upper
128 100
49 143.0 0.0 392.3
130 128.9 0.0 320.2



#3
Chloromethane
Concen: 0.360 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

Tgt Ion: 50 Resp: 2243
Ion Ratio Lower Upper
50 100
52 21.0 27.8 41.6#

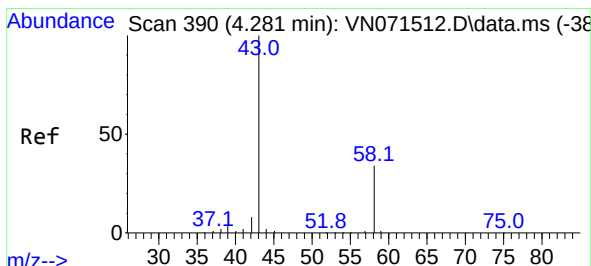
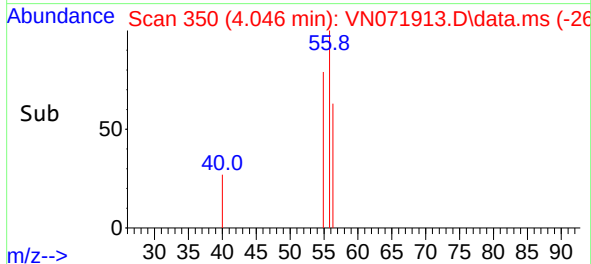
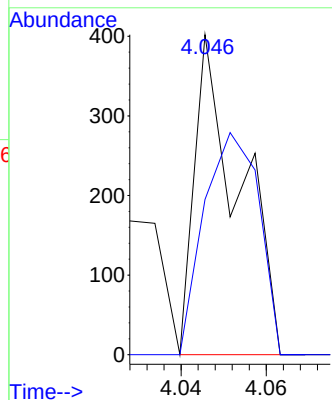
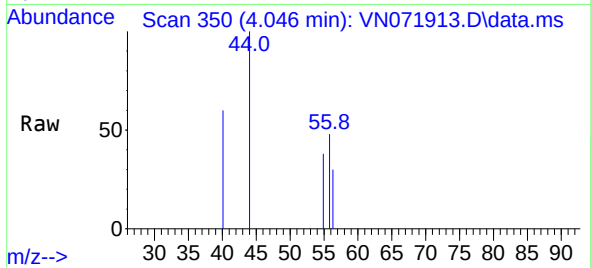




#13
Acrolein
Concen: 0.396 ug/l
RT: 4.046 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

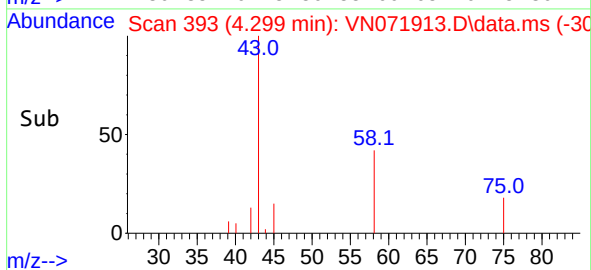
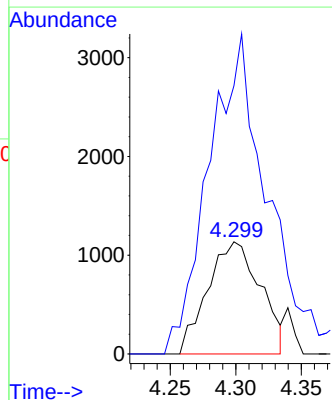
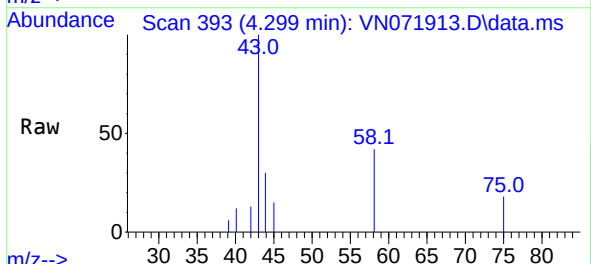
Instrument :
MSVOA_N
ClientSampleId :

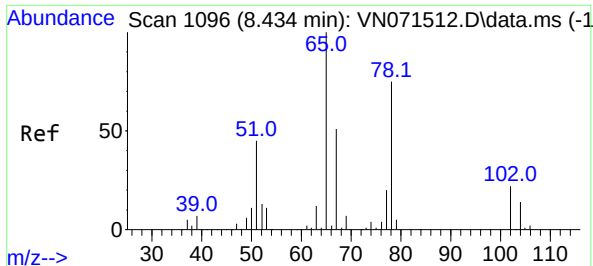
Tgt Ion: 56 Resp: 292
Ion Ratio Lower Upper
56 100
55 85.3 57.6 86.4



#15
Acetone
Concen: 3.534 ug/l
RT: 4.299 min Scan# 393
Delta R.T. 0.018 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

Tgt Ion: 58 Resp: 3190
Ion Ratio Lower Upper
58 100
43 215.6 256.6 384.8#

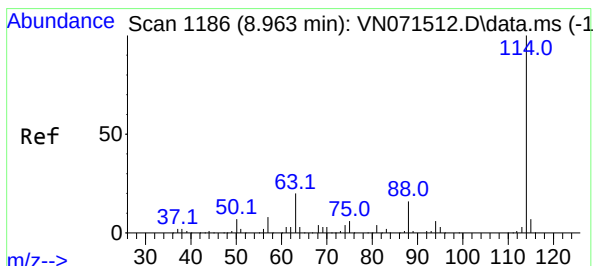
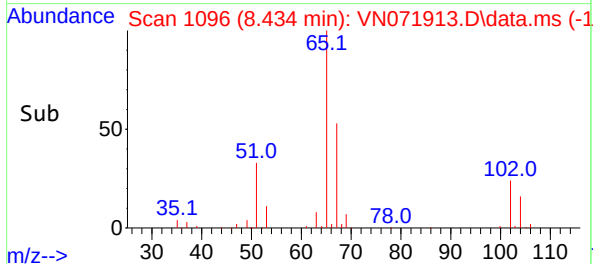
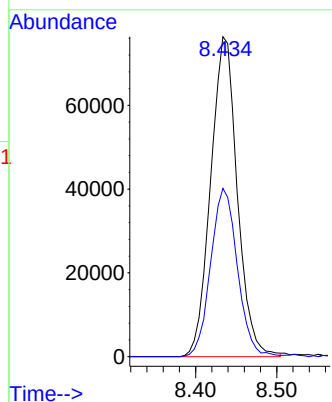
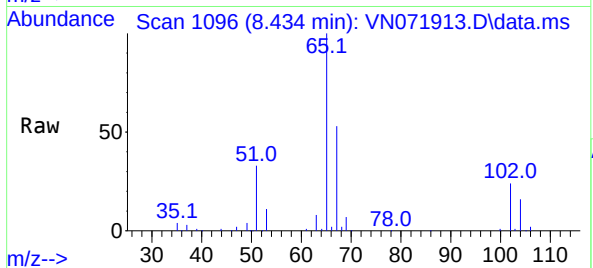




#27
1,2-Dichloroethane-d4
Concen: 29.167 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. -0.000 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

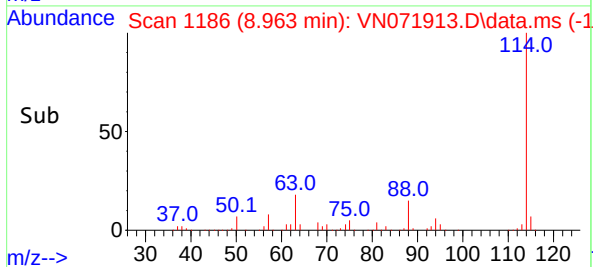
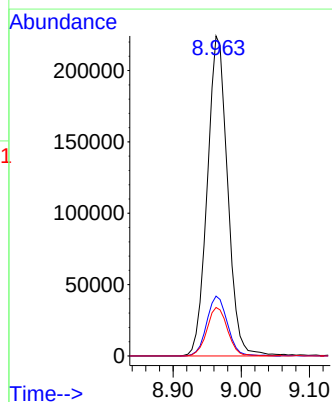
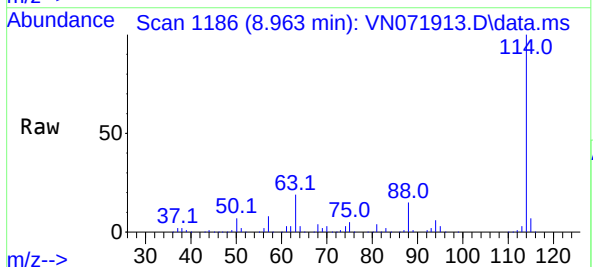
Instrument :
MSVOA_N
ClientSampleId :

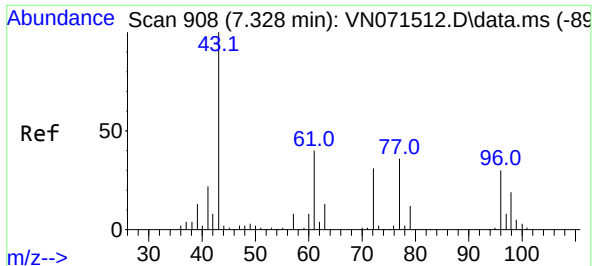
Tgt Ion: 65 Resp: 174317
Ion Ratio Lower Upper
65 100
67 52.7 40.2 60.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

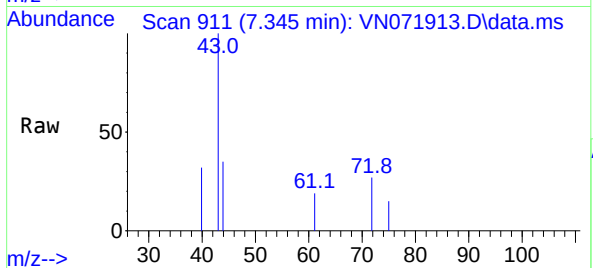
Tgt Ion: 114 Resp: 465270
Ion Ratio Lower Upper
114 100
63 18.9 15.8 23.6
88 15.4 11.6 17.4



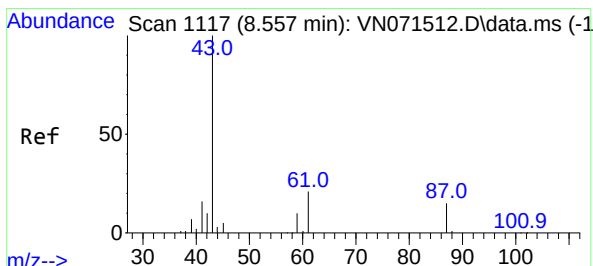
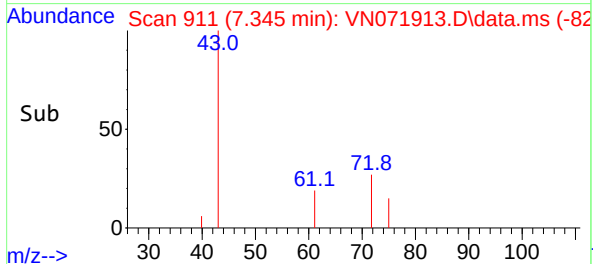
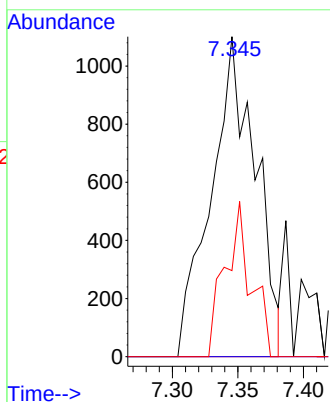


#30
2-Butanone
Concen: 0.620 ug/l
RT: 7.345 min Scan# 91
Delta R.T. 0.018 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

Instrument :
MSVOA_N
ClientSampleId :

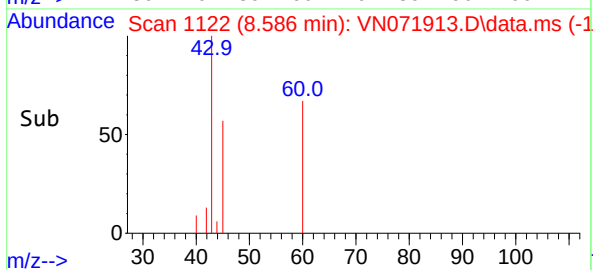
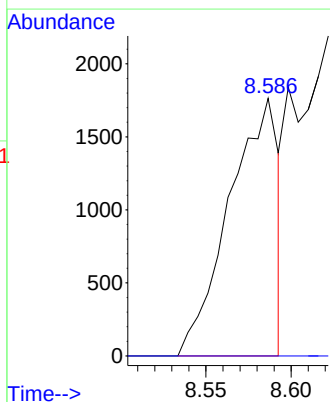
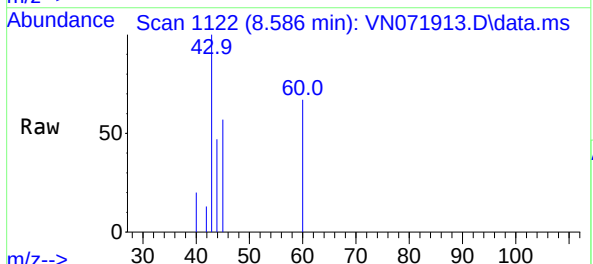


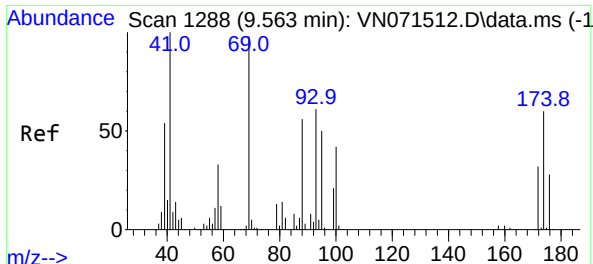
Tgt Ion: 43 Resp: 2599
Ion Ratio Lower Upper
43 100
57 0.0 6.7 10.1#
72 10.1 23.2 34.8#



#44
Isopropyl Acetate
Concen: 0.271 ug/l
RT: 8.586 min Scan# 1122
Delta R.T. 0.029 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

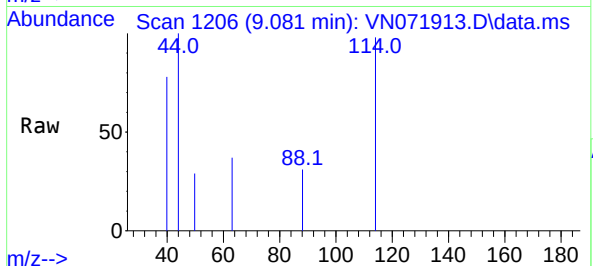
Tgt Ion: 43 Resp: 3535
Ion Ratio Lower Upper
43 100
61 85.9 20.1 30.1#



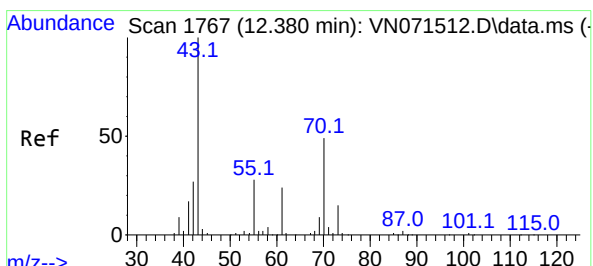
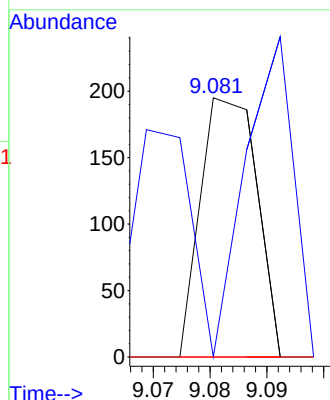
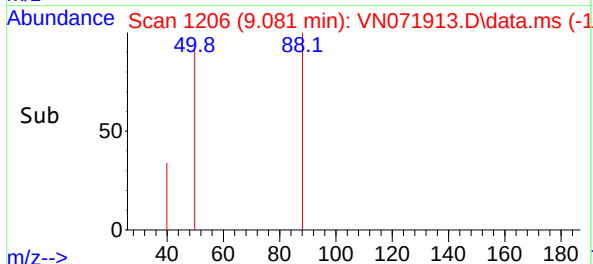


#45
1,4-Dioxane
Concen: 1.019 ug/l
RT: 9.081 min Scan# 11
Delta R.T. -0.482 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

Instrument :
MSVOA_N
ClientSampleId :

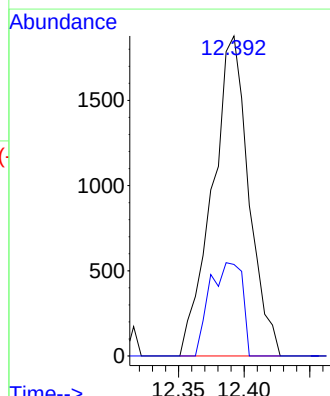
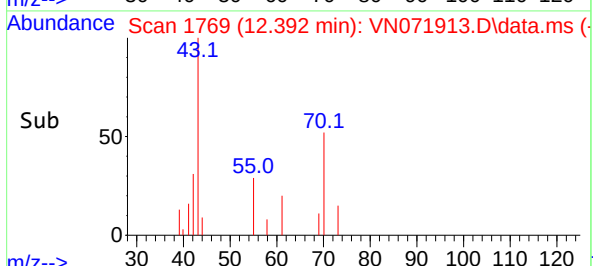
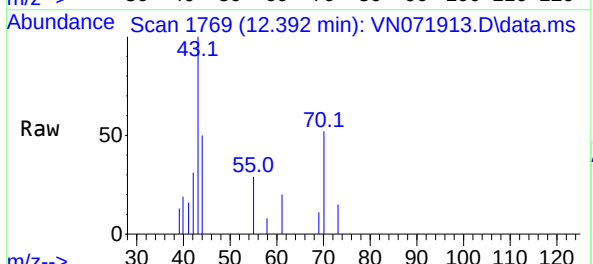


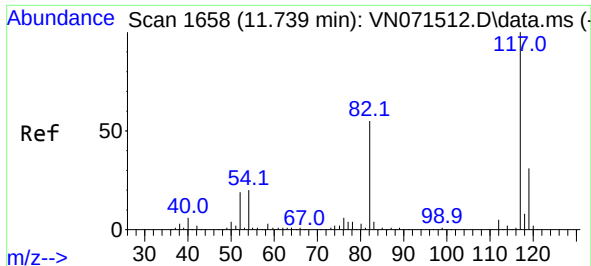
Tgt Ion: 88 Resp: 134
Ion Ratio Lower Upper
88 100
43 104.5 25.0 37.6#
58 0.0 49.4 74.2#



#47
n-amy1 Acetate
Concen: 0.418 ug/l
RT: 12.392 min Scan# 1769
Delta R.T. 0.012 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

Tgt Ion: 43 Resp: 3635
Ion Ratio Lower Upper
43 100
55 26.0 19.0 28.6

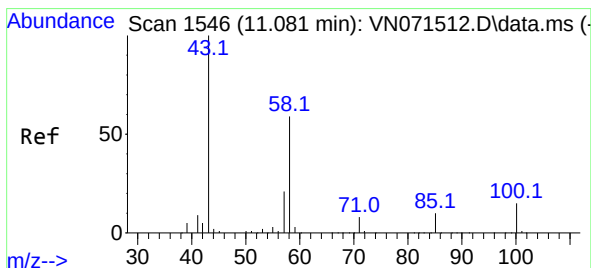
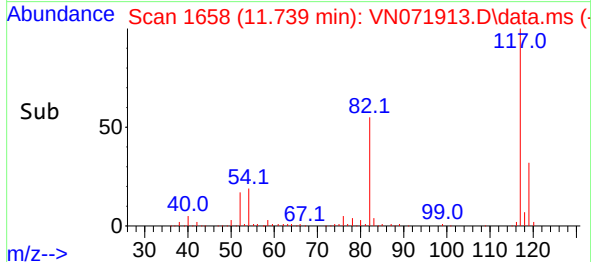
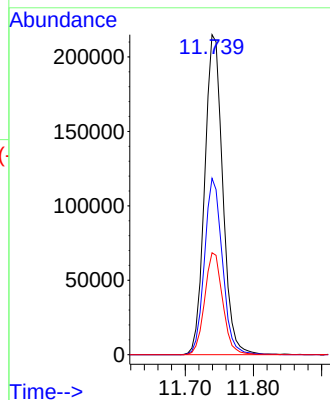
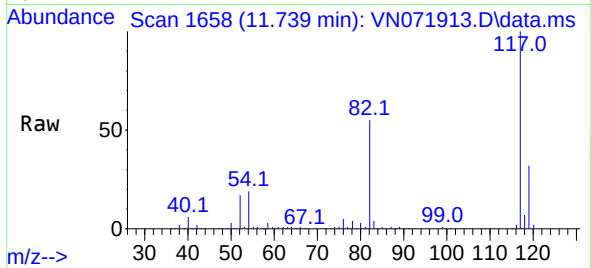




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.739 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

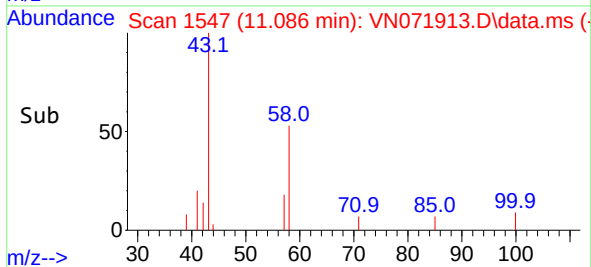
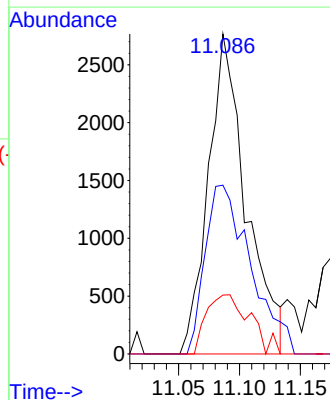
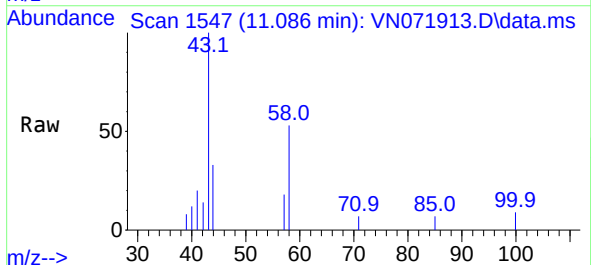
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MSVOA_N
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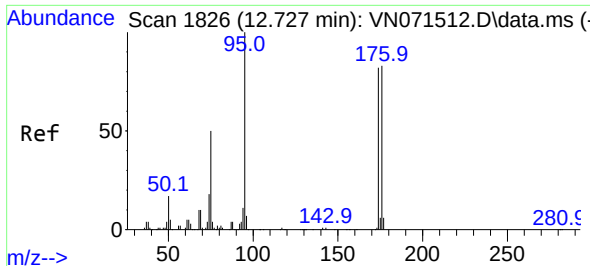
Tgt Ion:117 Resp: 395934
Ion Ratio Lower Upper
117 100
82 54.5 43.6 65.4
119 31.8 25.8 38.6



#59
2-Hexanone
Concen: 1.092 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.006 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

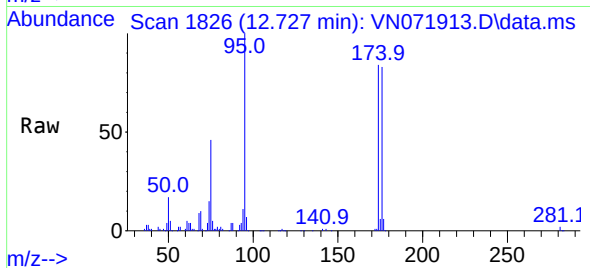
Tgt Ion: 43 Resp: 5990
Ion Ratio Lower Upper
43 100
58 63.3 42.2 63.2#
57 16.6 15.0 22.4



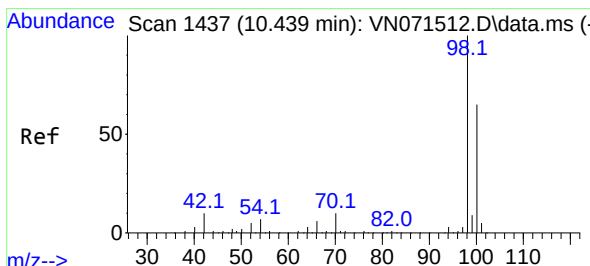
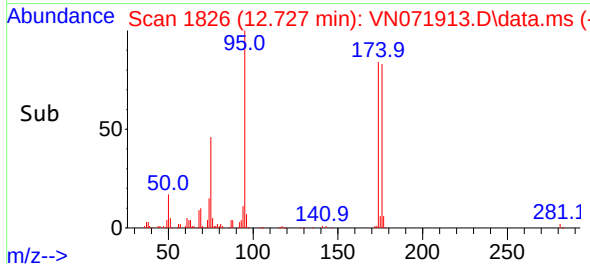
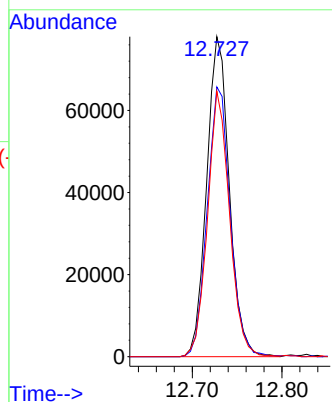


#60
4-Bromofluorobenzene
Concen: 23.254 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

Instrument :
MSVOA_N
ClientSampleId :

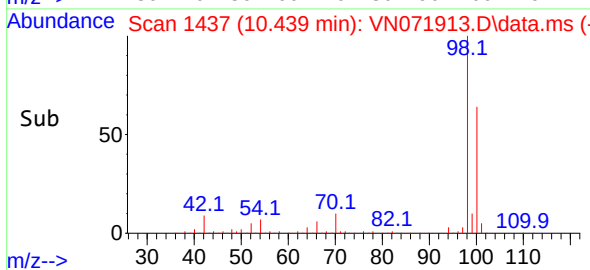
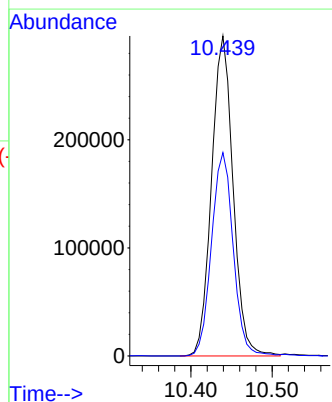
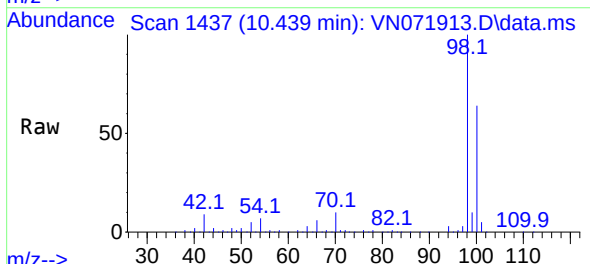


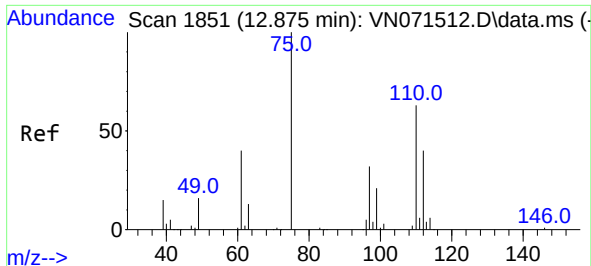
Tgt Ion: 95 Resp: 136516
Ion Ratio Lower Upper
95 100
174 85.8 62.9 94.3
176 80.6 61.0 91.4



#63
Toluene-d8
Concen: 30.325 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

Tgt Ion: 98 Resp: 545043
Ion Ratio Lower Upper
98 100
100 64.0 50.6 76.0

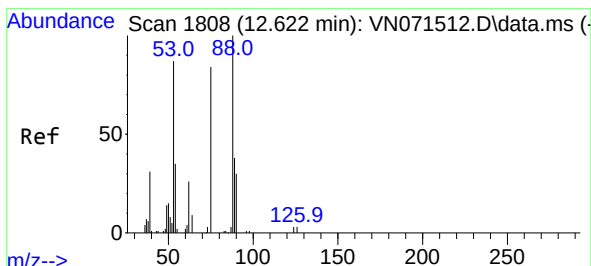
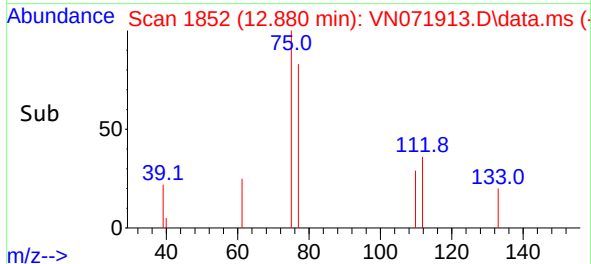
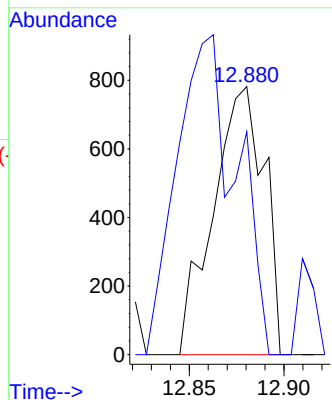
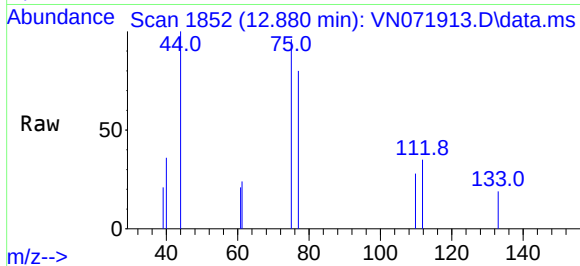




#72
1,2,3-Trichloropropane
Concen: 0.207 ug/l
RT: 12.880 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

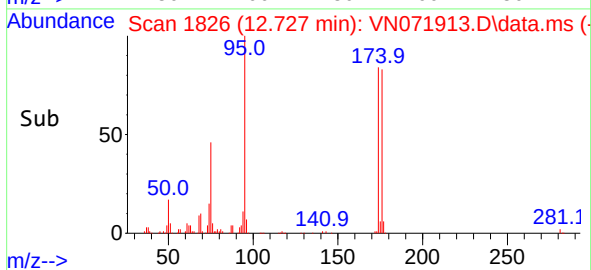
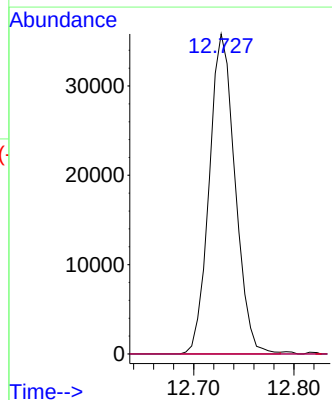
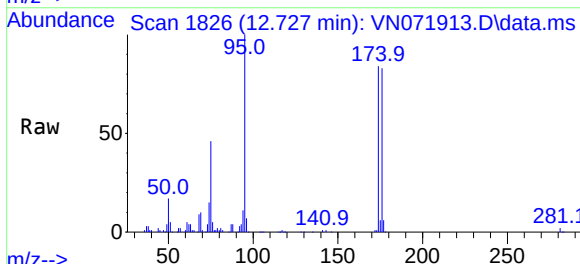
Instrument :
MSVOA_N
ClientSampleId :

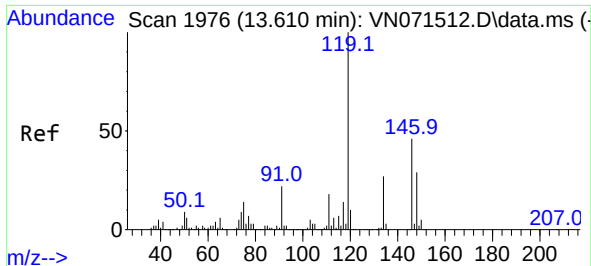
Tgt Ion: 75 Resp: 1467
Ion Ratio Lower Upper
75 100
77 34.2 0.0 378.0



#77
t-1,4-Dichloro-2-butene
Concen: 25.850 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

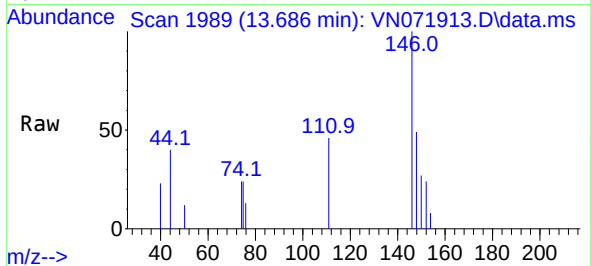
Tgt Ion: 75 Resp: 64258
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#



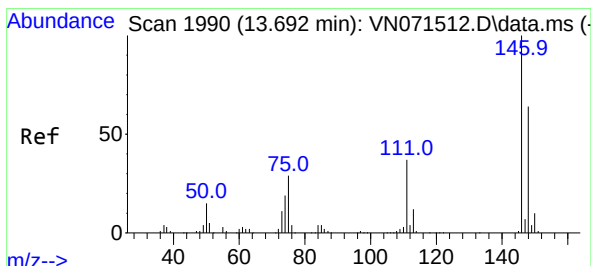
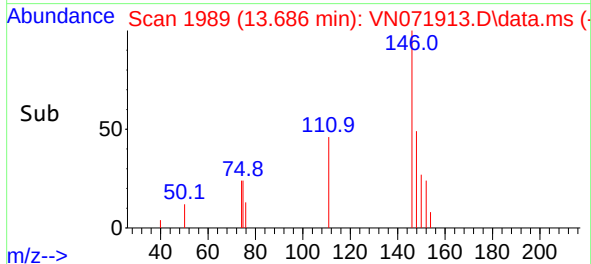
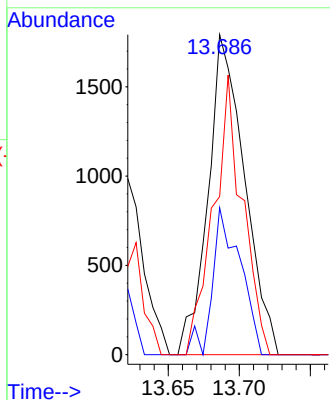


#83
 1,3-Dichlorobenzene
 Concen: 0.316 ug/l
 RT: 13.686 min Scan# 1989
 Delta R.T. 0.076 min
 Lab File: VN071913.D
 Acq: 08 Apr 2022 14:31

Instrument :
 MSVOA_N
 ClientSampleId :

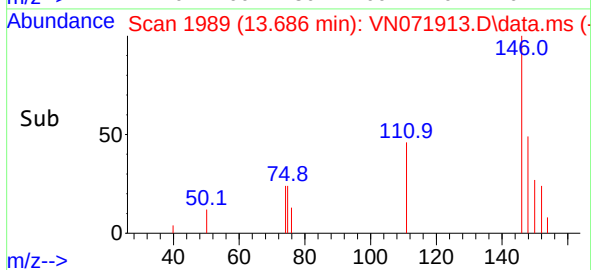
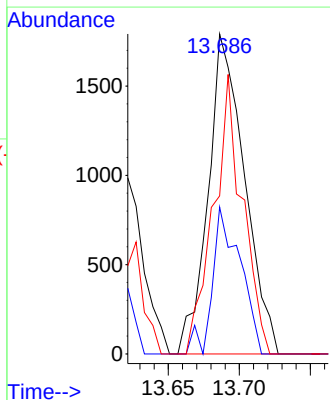
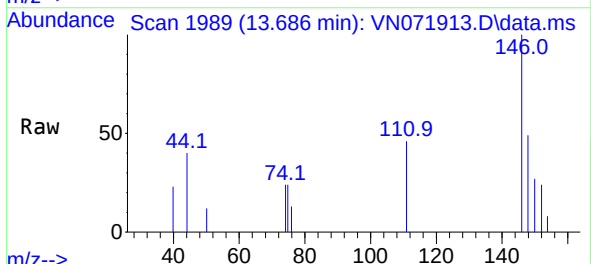


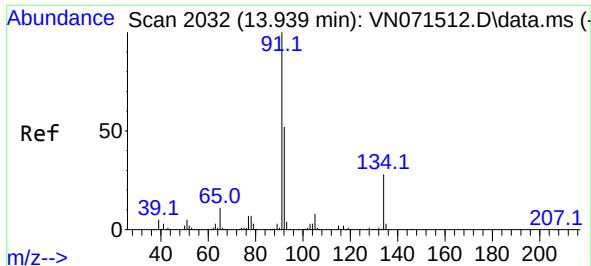
Tgt Ion:146 Resp: 3196
 Ion Ratio Lower Upper
 146 100
 111 33.2 20.8 62.2
 148 69.5 31.4 94.3



#84
 1,4-Dichlorobenzene
 Concen: 0.331 ug/l
 RT: 13.686 min Scan# 1989
 Delta R.T. -0.006 min
 Lab File: VN071913.D
 Acq: 08 Apr 2022 14:31

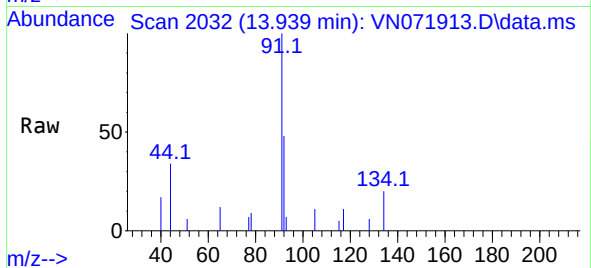
Tgt Ion:146 Resp: 3196
 Ion Ratio Lower Upper
 146 100
 111 33.2 19.5 58.5
 148 69.5 31.1 93.5



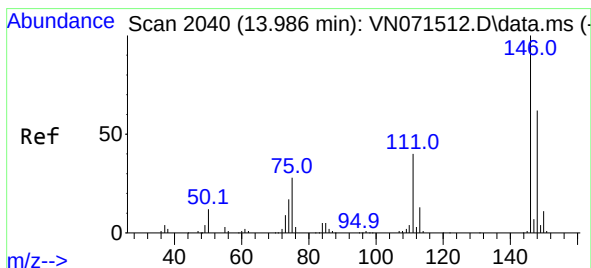
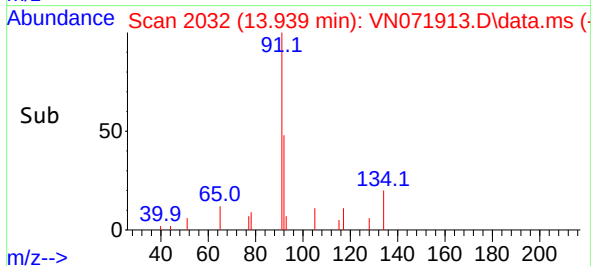
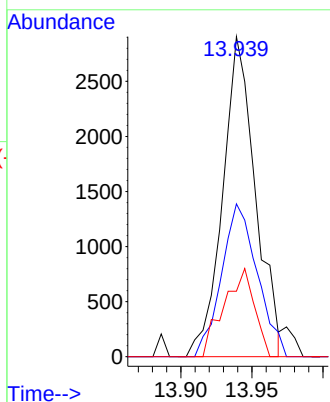


#85
n-Butylbenzene
Concen: 0.314 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. -0.000 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

Instrument :
MSVOA_N
ClientSampleId :

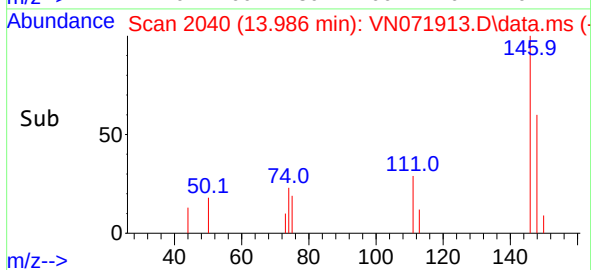
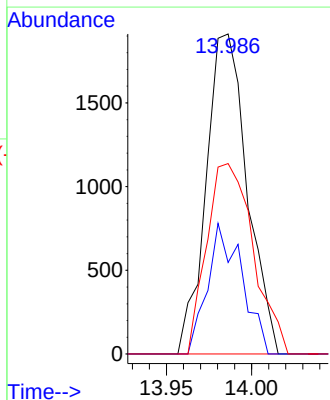
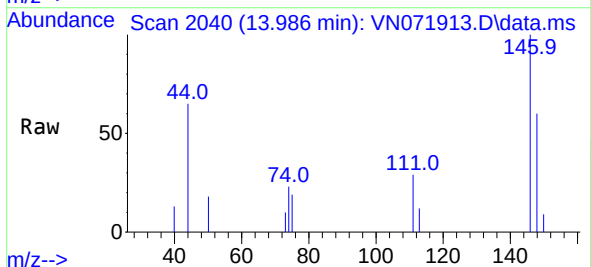


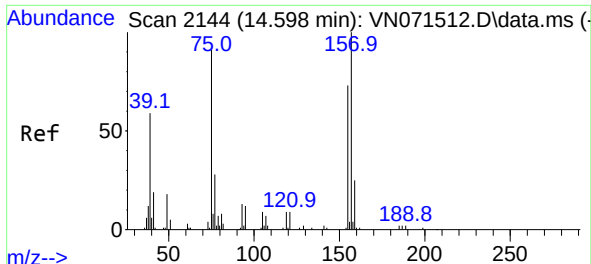
Tgt Ion: 91 Resp: 4665
Ion Ratio Lower Upper
91 100
92 52.1 0.0 100.6
134 25.7 0.0 50.2



#87
1,2-Dichlorobenzene
Concen: 0.329 ug/l
RT: 13.986 min Scan# 2040
Delta R.T. -0.000 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

Tgt Ion:146 Resp: 3212
Ion Ratio Lower Upper
146 100
111 34.0 21.4 64.2
148 67.3 32.5 97.4

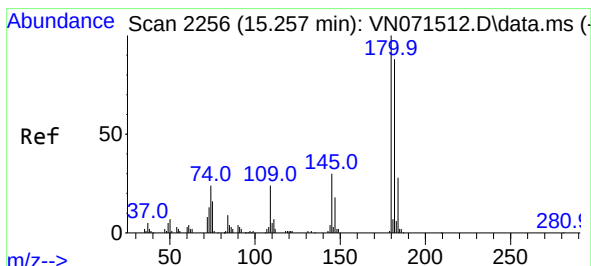
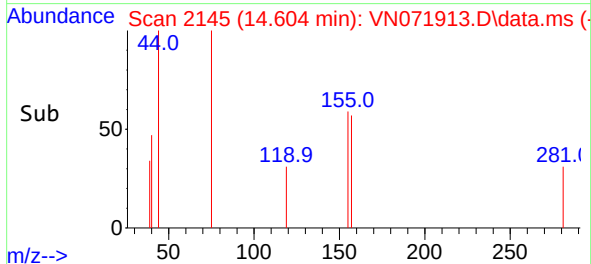
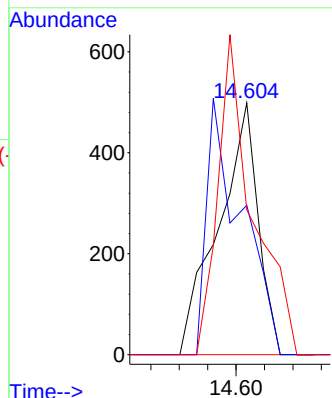
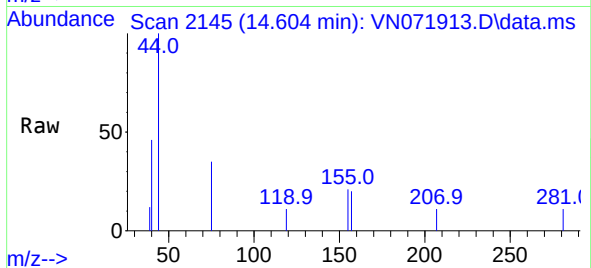




#88
1,2-Dibromo-3-Chloropropane
Concen: 0.329 ug/l
RT: 14.604 min Scan# 2144
Delta R.T. 0.006 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

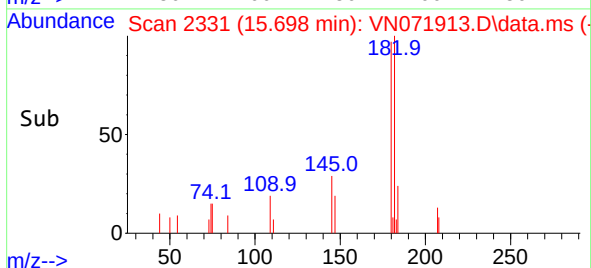
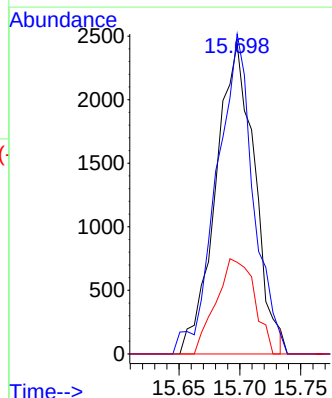
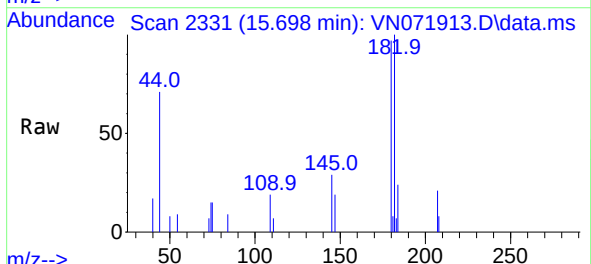
Instrument :
MSVOA_N
ClientSampleId :

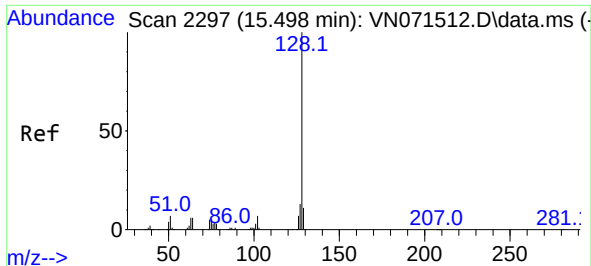
Tgt Ion: 75 Resp: 483
Ion Ratio Lower Upper
75 100
155 89.6 63.8 95.8
157 112.0 77.9 116.9



#89
1,2,4-Trichlorobenzene
Concen: 1.199 ug/l
RT: 15.698 min Scan# 2331
Delta R.T. 0.441 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

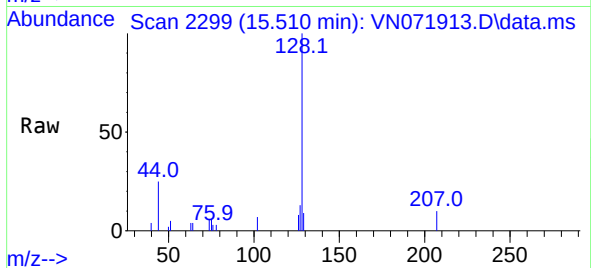
Tgt Ion: 180 Resp: 5414
Ion Ratio Lower Upper
180 100
182 87.1 77.7 116.5
145 30.2 26.6 39.8



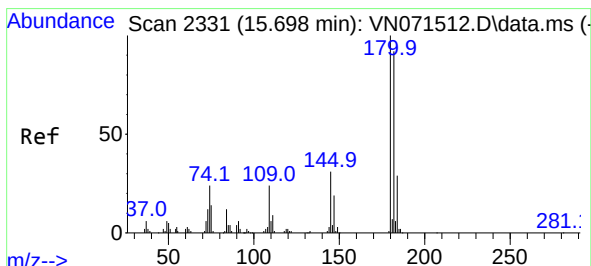
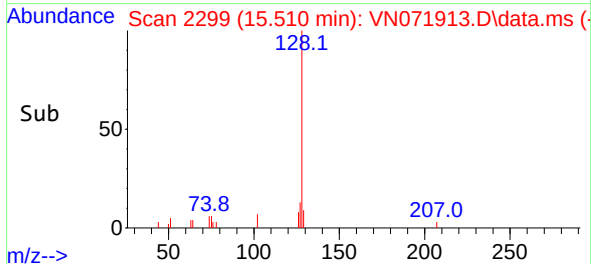
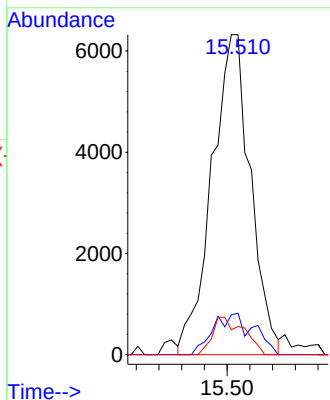


#91
Naphthalene
Concen: 7.734 ug/l
RT: 15.510 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 14910
Ion Ratio Lower Upper
128 100
127 4.7 10.7 16.1#
129 3.8 9.0 13.6#



#92
1,2,3-Trichlorobenzene
Concen: 1.222 ug/l
RT: 15.698 min Scan# 2331
Delta R.T. -0.000 min
Lab File: VN071913.D
Acq: 08 Apr 2022 14:31

Tgt Ion:180 Resp: 5414
Ion Ratio Lower Upper
180 100
182 94.3 0.0 190.0
145 30.2 0.0 67.8

