

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070921\
 Data File : VN067679.D
 Acq On : 9 Jul 2021 11:48
 Operator : JC/MD
 Sample : VN0709WBL01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0709WBL01

Quant Time: Jul 10 05:17:36 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N070121W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 01 12:09:22 2021
 Response via : Initial Calibration

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

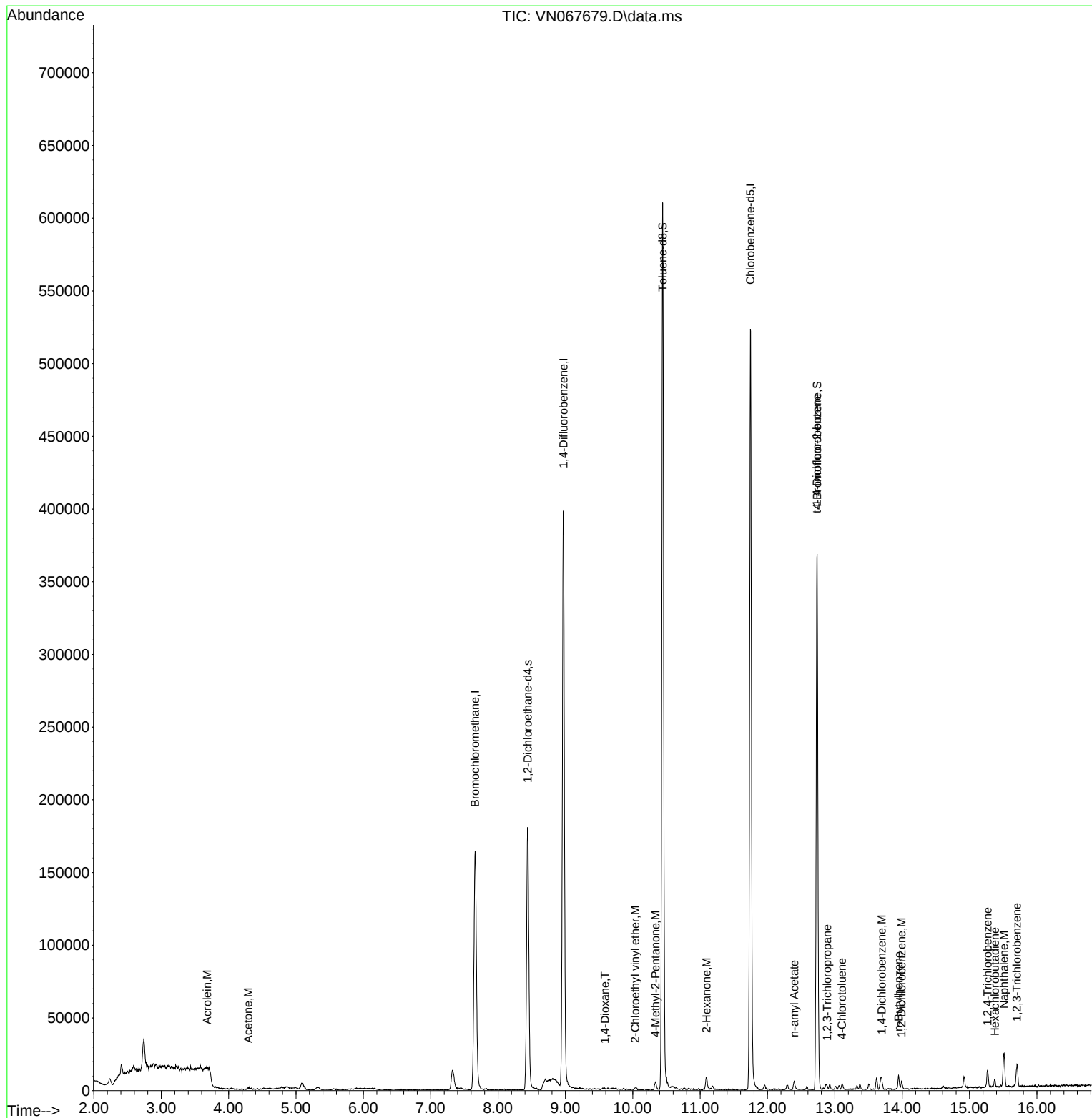
Internal Standards						
1) Bromochloromethane	7.659	128	58502	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	348603	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	303094	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	152824	32.327	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 107.767%	
60) 4-Bromofluorobenzene	12.736	95	129747	26.314	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 87.700%	
63) Toluene-d8	10.443	98	430424	31.035	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 103.467%	
Target Compounds						
					Qvalue	
13) Acrolein	3.682	56	134	0.261	ug/l	87
15) Acetone	4.291	58	94	0.237	ug/l #	1
45) 1,4-Dioxane	9.588	88	90	1.197	ug/l #	8
47) n-amyl Acetate	12.396	43	3560	0.442	ug/l	100
55) 2-Chloroethyl vinyl ether	10.038	63	427	0.290	ug/l #	73
58) 4-Methyl-2-Pentanone	10.339	43	3491	0.662	ug/l #	77
59) 2-Hexanone	11.095	43	6387	1.738	ug/l	98
72) 1,2,3-Trichloropropane	12.884	75	1271	0.261	ug/l	47
77) t-1,4-Dichloro-2-butene	12.733	75	73503	46.075	ug/l #	6
78) 4-Chlorotoluene	13.106	91	3167	0.241	ug/l	95
84) 1,4-Dichlorobenzene	13.696	146	2566	0.324	ug/l #	64
85) n-Butylbenzene	13.948	91	6034	0.480	ug/l	97
87) 1,2-Dichlorobenzene	13.989	146	2370	0.301	ug/l #	80
89) 1,2,4-Trichlorobenzene	15.268	180	3912	1.153	ug/l	99
90) Hexachlorobutadiene	15.378	225	1091	0.694	ug/l	38
91) Naphthalene	15.512	128	21272	2.034	ug/l	96
92) 1,2,3-Trichlorobenzene	15.702	180	5361	1.656	ug/l	81

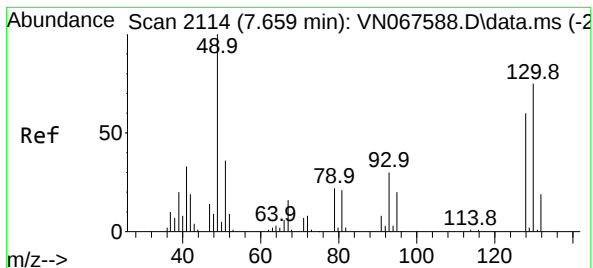
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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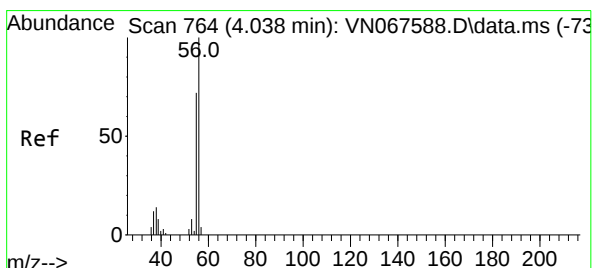
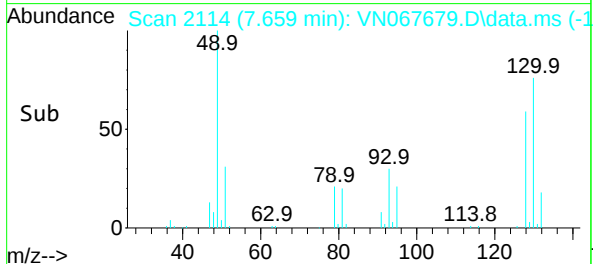
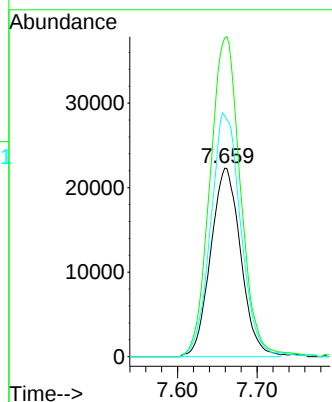
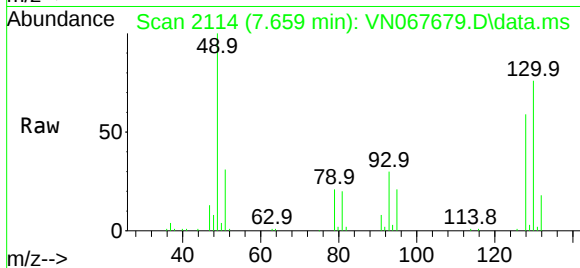


#1

Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.659 min Scan# 2114
 Delta R.T. 0.000 min
 Lab File: VN067679.D
 Acq: 9 Jul 2021 11:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0709WBL01

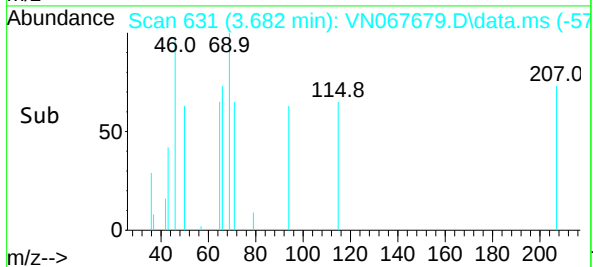
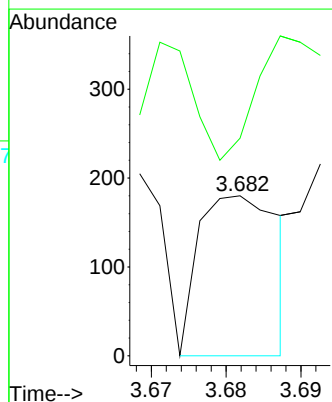
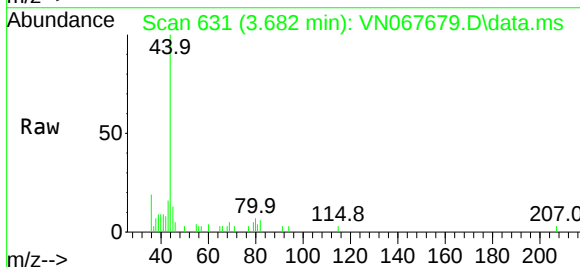
Tgt Ion:128 Resp: 58502
 Ion Ratio Lower Upper
 128 100
 49 171.6 0.0 517.5
 130 129.1 0.0 325.8

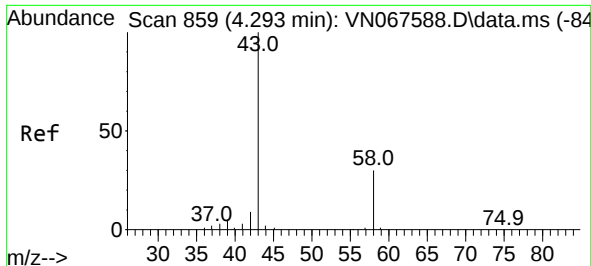


#13

Acrolein
 Concen: 0.261 ug/l
 RT: 3.682 min Scan# 631
 Delta R.T. -0.357 min
 Lab File: VN067679.D
 Acq: 9 Jul 2021 11:48

Tgt Ion: 56 Resp: 134
 Ion Ratio Lower Upper
 56 100
 55 61.2 57.5 86.3

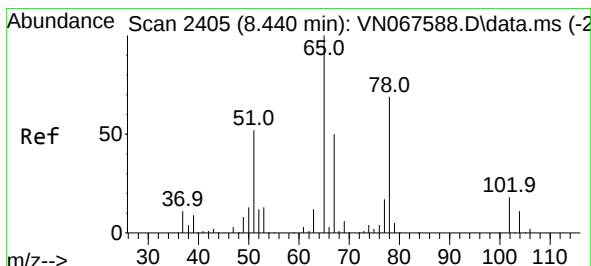
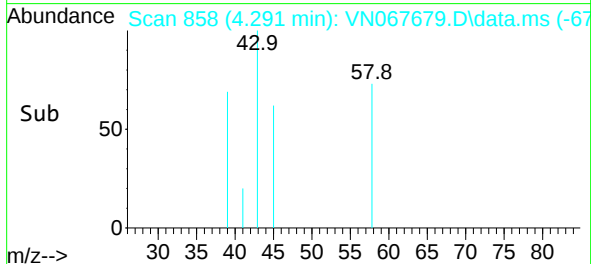
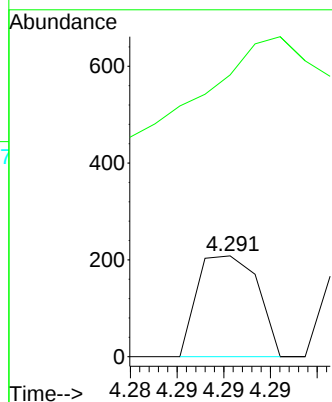
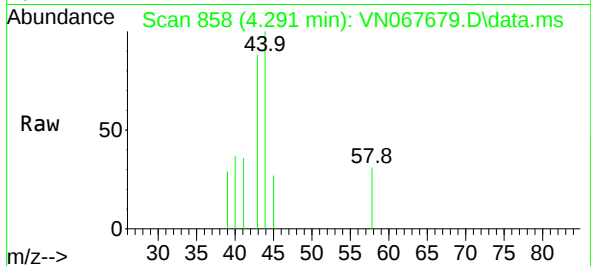




#15
Acetone
Concen: 0.237 ug/l
RT: 4.291 min Scan# 858
Delta R.T. -0.003 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

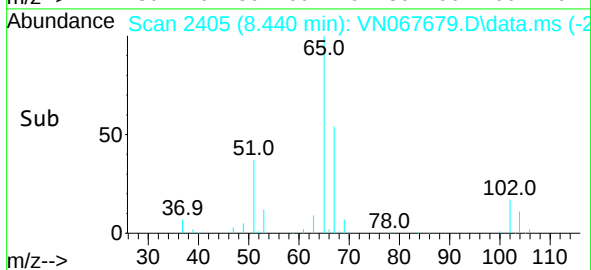
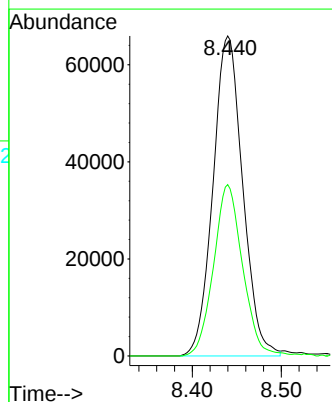
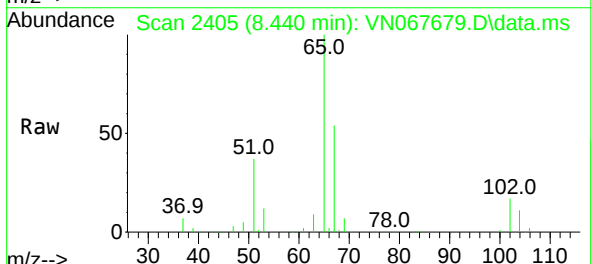
Instrument :
MSVOA_N
ClientSampled :
VN0709WBL01

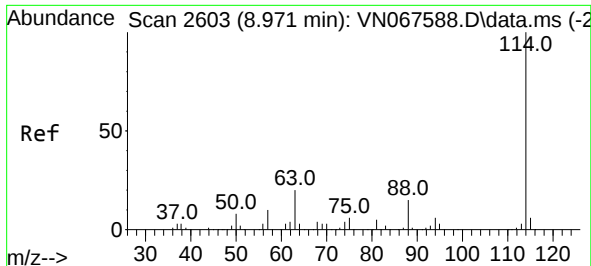
Tgt Ion: 58 Resp: 94
Ion Ratio Lower Upper
58 100
43 30.8 289.6 434.4#



#27
1,2-Dichloroethane-d4
Concen: 32.327 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.000 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

Tgt Ion: 65 Resp: 152824
Ion Ratio Lower Upper
65 100
67 52.3 39.8 59.8

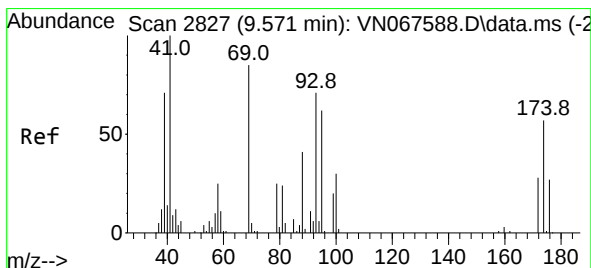
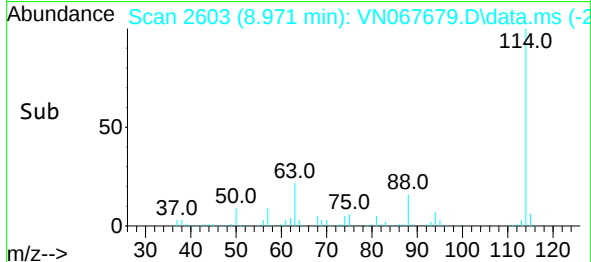
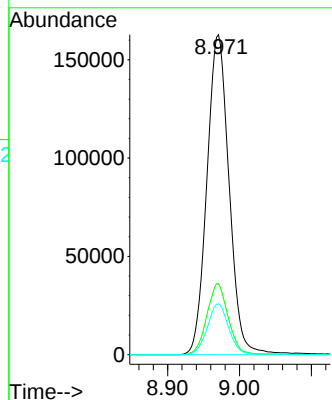
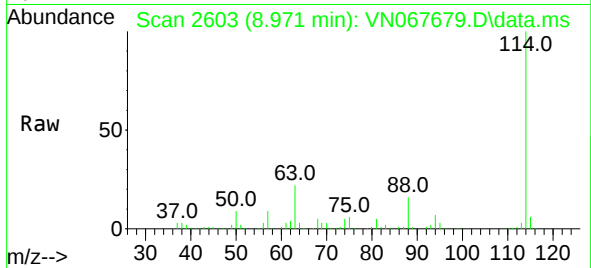




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.000 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

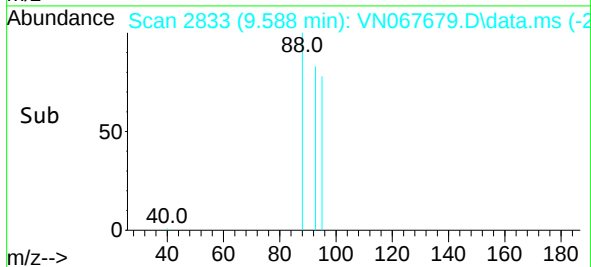
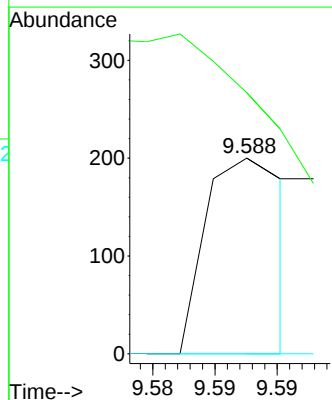
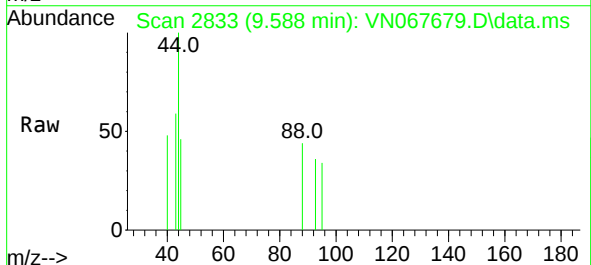
Instrument :
MSVOA_N
ClientSampleId :
VN0709WBL01

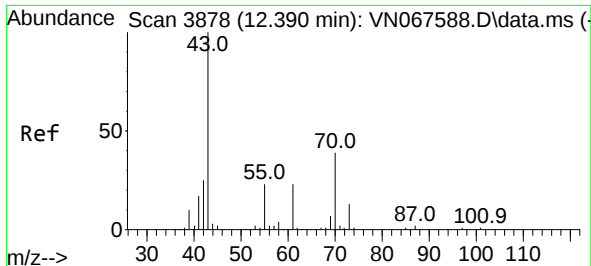
Tgt Ion:114 Resp: 348603
Ion Ratio Lower Upper
114 100
63 21.4 20.3 30.5
88 15.4 14.6 22.0



#45
1,4-Dioxane
Concen: 1.197 ug/l
RT: 9.588 min Scan# 2833
Delta R.T. 0.016 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

Tgt Ion: 88 Resp: 90
Ion Ratio Lower Upper
88 100
43 74.4 18.0 27.0#
58 0.0 57.7 86.5#

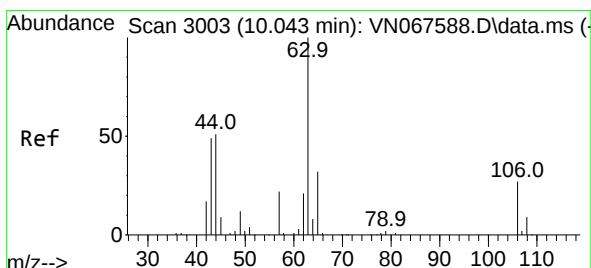
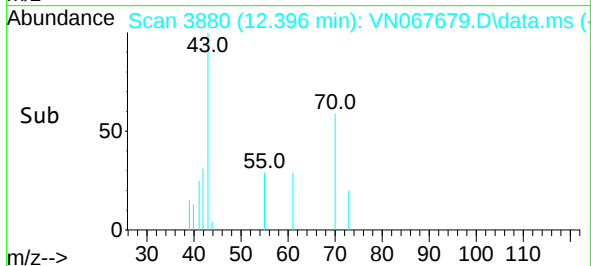
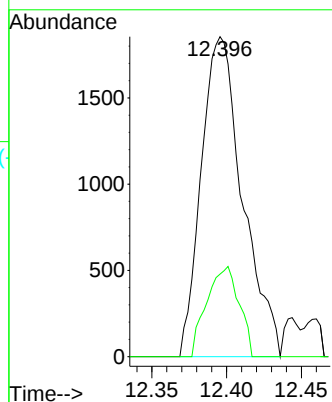
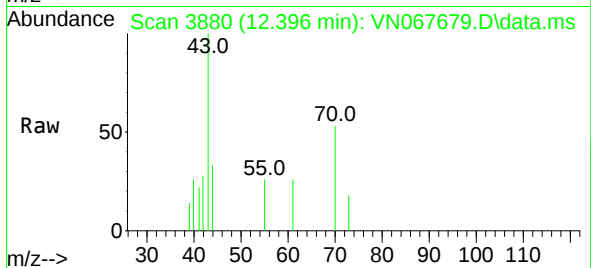




#47
n-amy1 Acetate
Concen: 0.442 ug/l
RT: 12.396 min Scan# 3880
Delta R.T. 0.005 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

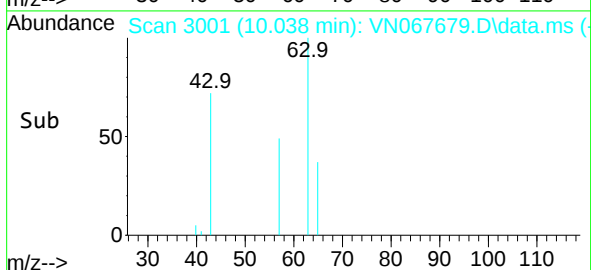
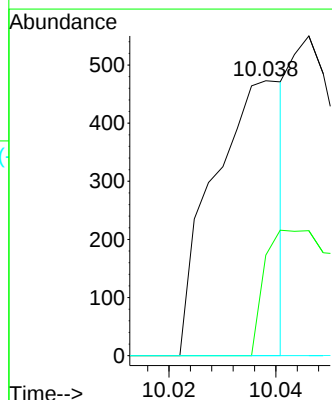
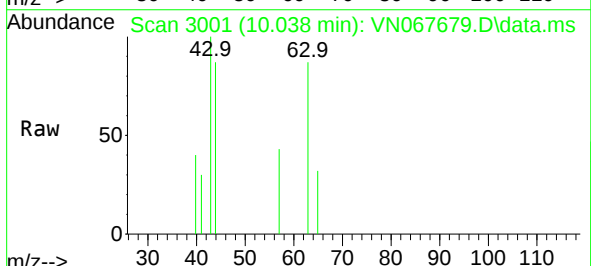
Instrument :
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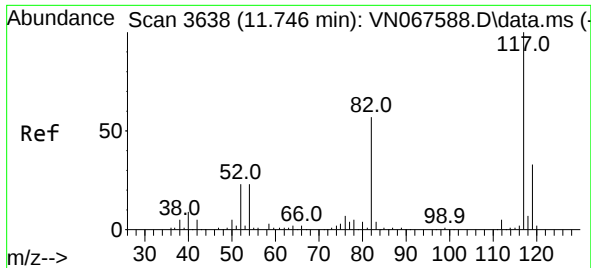
Tgt Ion: 43 Resp: 3560
Ion Ratio Lower Upper
43 100
55 22.0 17.6 26.4



#55
2-Chloroethyl vinyl ether
Concen: 0.290 ug/l
RT: 10.038 min Scan# 3001
Delta R.T. -0.005 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

Tgt Ion: 63 Resp: 427
Ion Ratio Lower Upper
63 100
65 37.5 25.6 38.4
106 0.0 20.0 30.0#

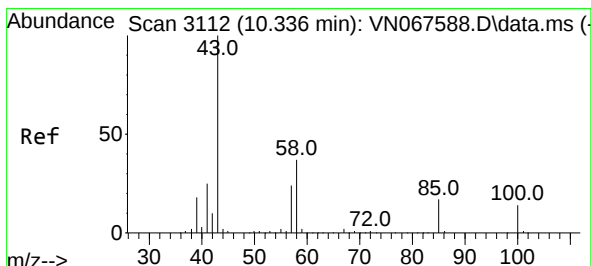
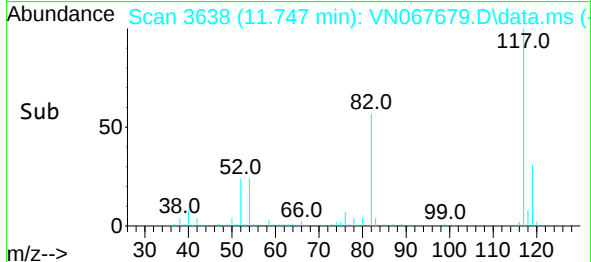
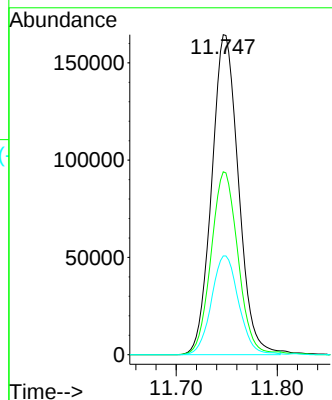
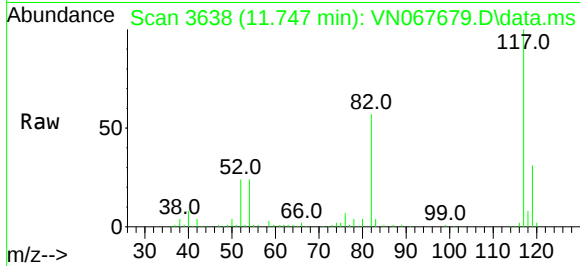




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

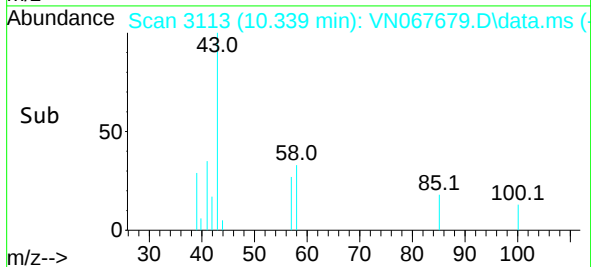
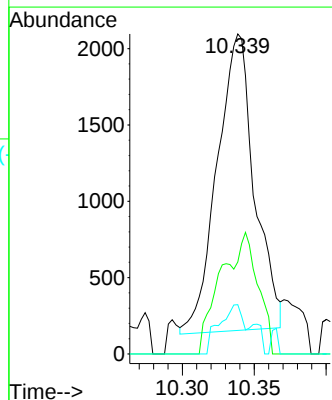
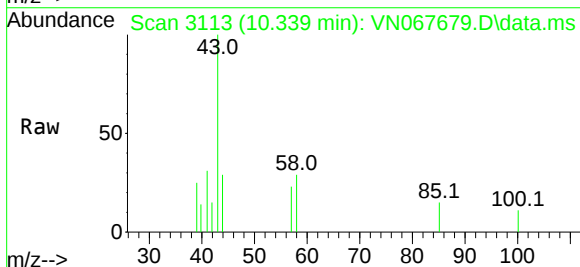
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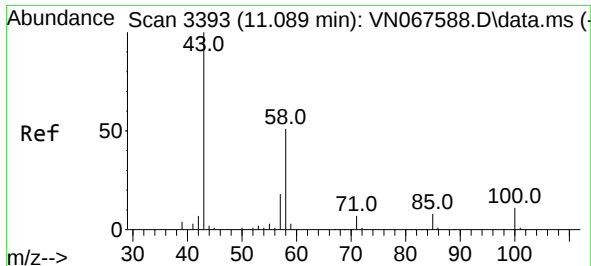
Tgt Ion:117 Resp: 303094
Ion Ratio Lower Upper
117 100
82 57.2 52.5 78.7
119 31.4 25.8 38.8



#58
4-Methyl-2-Pentanone
Concen: 0.662 ug/l
RT: 10.339 min Scan# 3113
Delta R.T. 0.003 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

Tgt Ion: 43 Resp: 3491
Ion Ratio Lower Upper
43 100
58 22.3 29.0 43.4#
85 7.1 13.2 19.8#

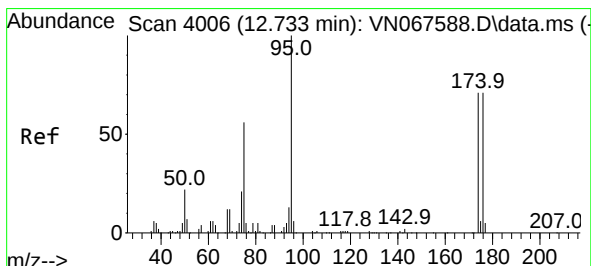
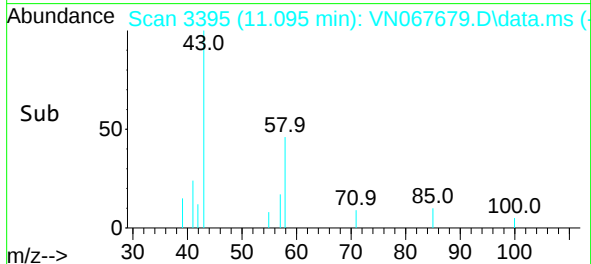
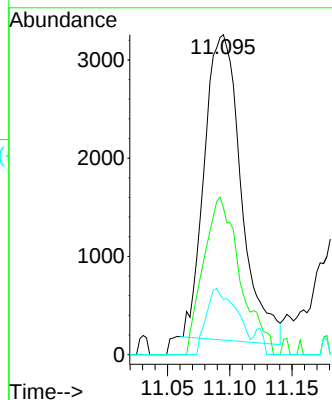
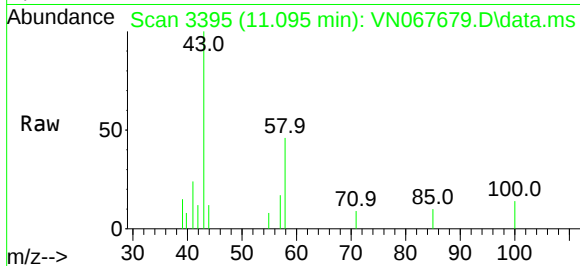




#59
2-Hexanone
Concen: 1.738 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.005 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

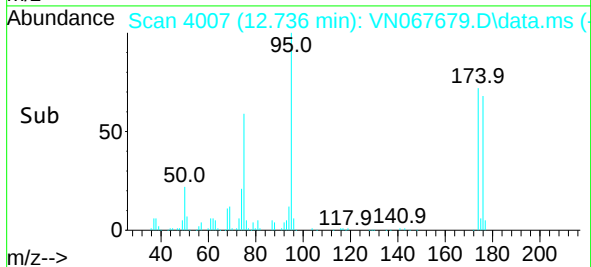
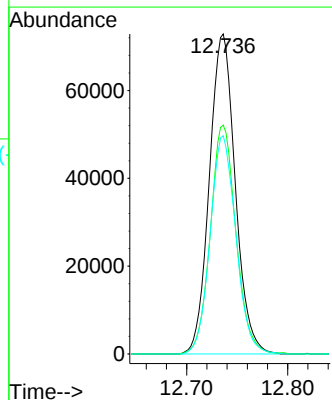
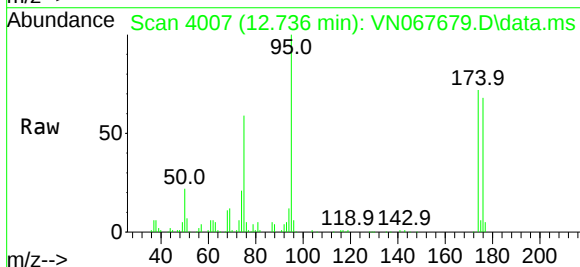
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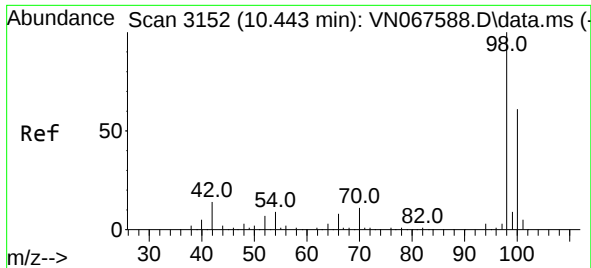
Tgt Ion:	43	Resp:	6387
Ion	Ratio	Lower	Upper
43	100		
58	46.9	39.4	59.0
57	18.0	14.4	21.6



#60
4-Bromofluorobenzene
Concen: 26.314 ug/l
RT: 12.736 min Scan# 4007
Delta R.T. 0.003 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

Tgt Ion:	95	Resp:	129747
Ion	Ratio	Lower	Upper
95	100		
174	70.6	47.7	71.5
176	67.8	45.7	68.5

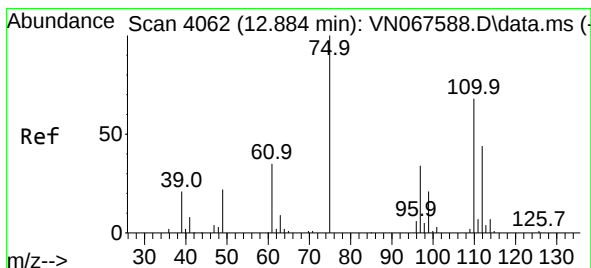
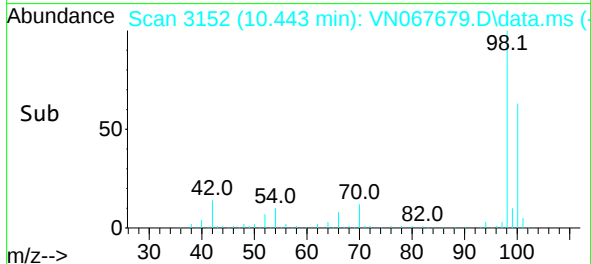
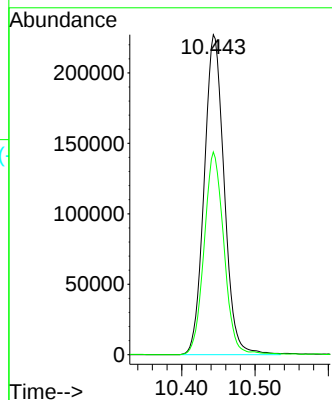
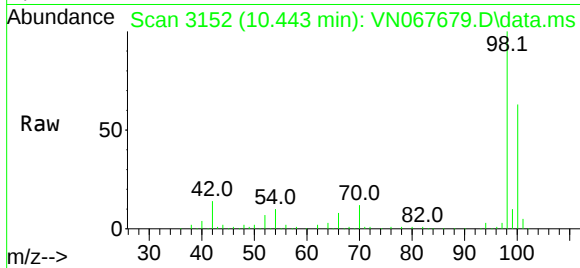




#63
Toluene-d8
Concen: 31.035 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

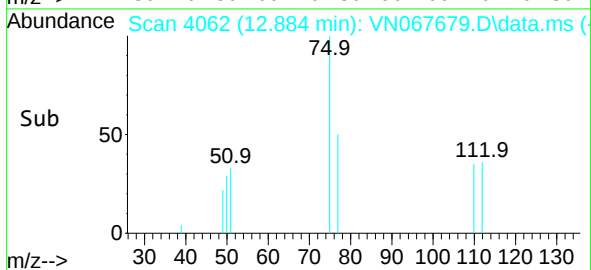
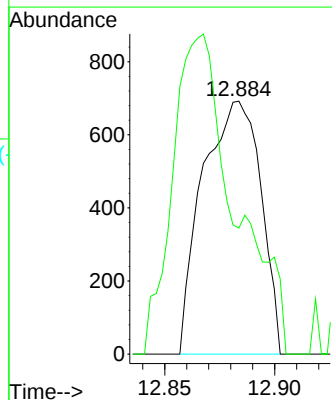
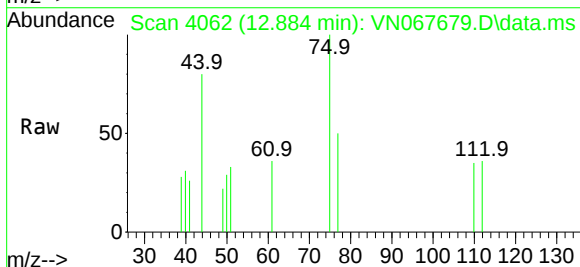
Instrument :
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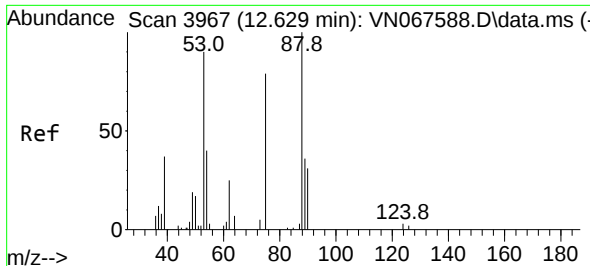
Tgt Ion: 98 Resp: 430424
Ion Ratio Lower Upper
98 100
100 62.0 51.2 76.8



#72
1,2,3-Trichloropropane
Concen: 0.261 ug/l
RT: 12.884 min Scan# 4062
Delta R.T. 0.000 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

Tgt Ion: 75 Resp: 1271
Ion Ratio Lower Upper
75 100
77 109.7 0.0 374.2

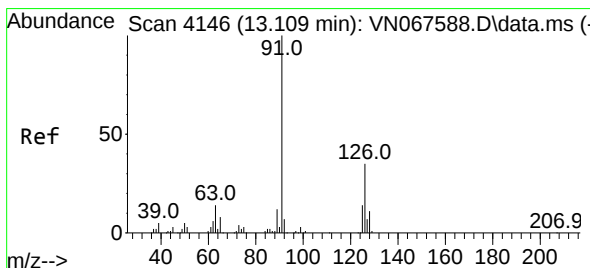
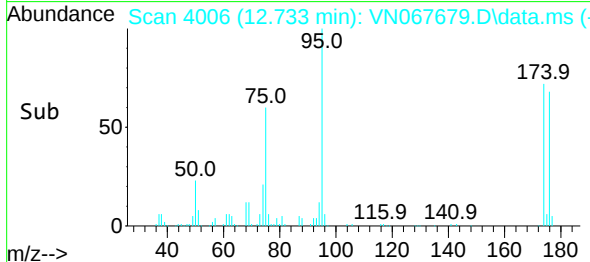
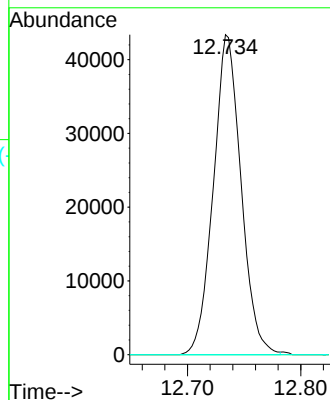
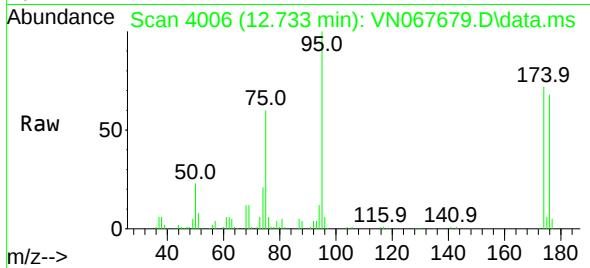




#77
t-1,4-Dichloro-2-butene
Concen: 46.075 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

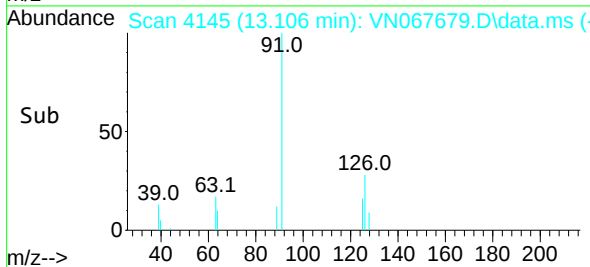
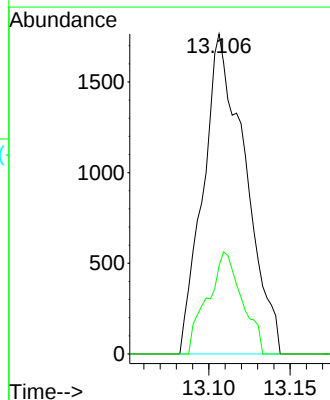
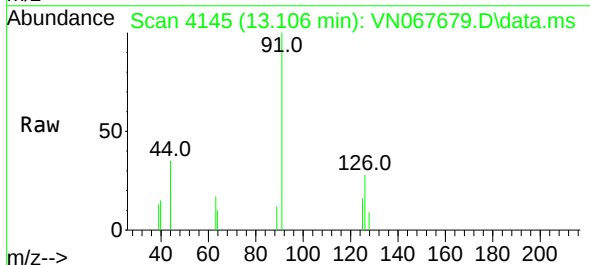
Instrument :
MSVOA_N
ClientSampleId :
VN0709WBL01

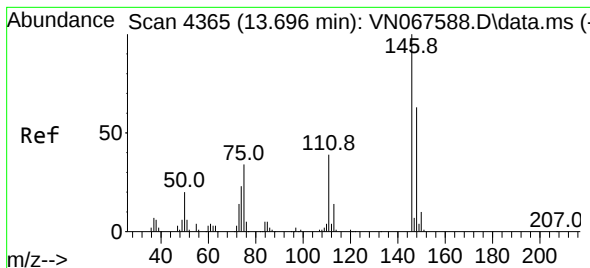
Tgt Ion: 75 Resp: 73503
Ion Ratio Lower Upper
75 100
53 0.0 55.2 165.6#
89 0.0 24.5 73.5#



#78
4-Chlorotoluene
Concen: 0.241 ug/l
RT: 13.106 min Scan# 4145
Delta R.T. -0.003 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

Tgt Ion: 91 Resp: 3167
Ion Ratio Lower Upper
91 100
126 26.1 0.0 57.6





#84

1,4-Dichlorobenzene

Concen: 0.324 ug/l

RT: 13.696 min Scan# 4365

Delta R.T. 0.000 min

Lab File: VN067679.D

Acq: 9 Jul 2021 11:48

Tgt Ion:146 Resp: 2566

Ion Ratio Lower Upper

146 100

111 28.8 23.6 71.0

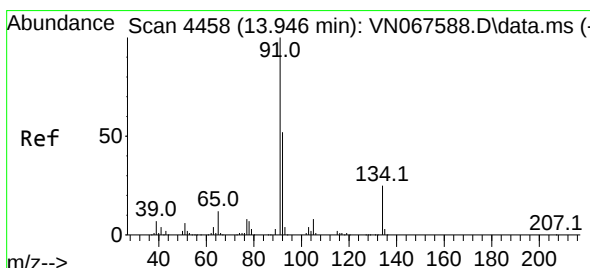
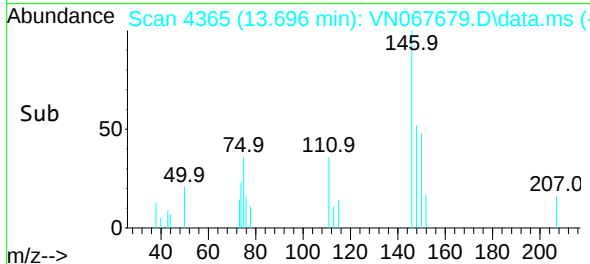
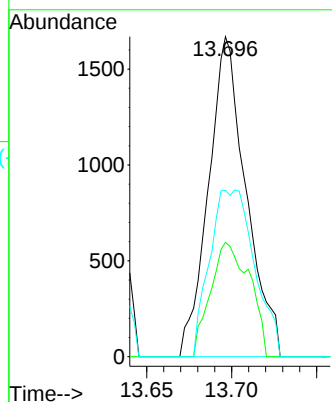
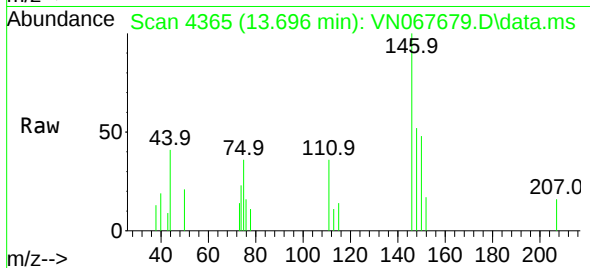
148 30.6 31.8 95.3#

Instrument :

MSVOA_N

ClientSampleId :

VN0709WBL01



#85

n-Butylbenzene

Concen: 0.480 ug/l

RT: 13.948 min Scan# 4459

Delta R.T. 0.003 min

Lab File: VN067679.D

Acq: 9 Jul 2021 11:48

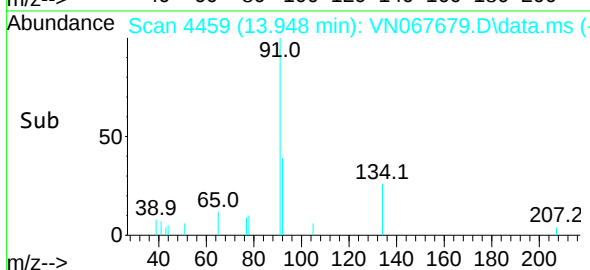
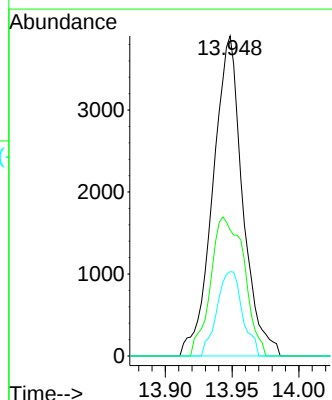
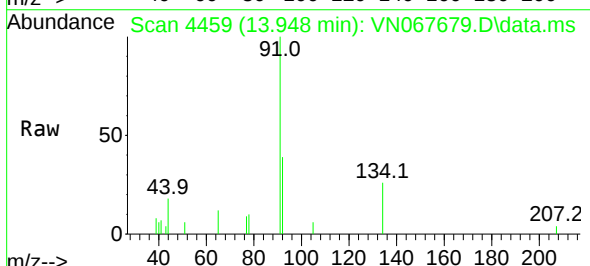
Tgt Ion: 91 Resp: 6034

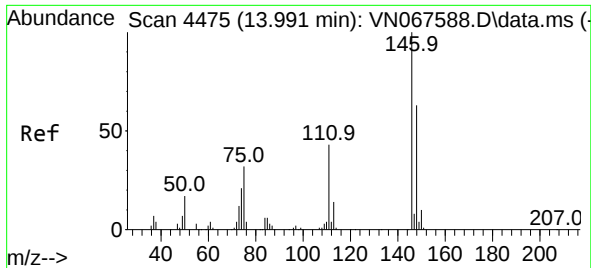
Ion Ratio Lower Upper

91 100

92 49.1 0.0 103.0

134 22.6 0.0 43.6

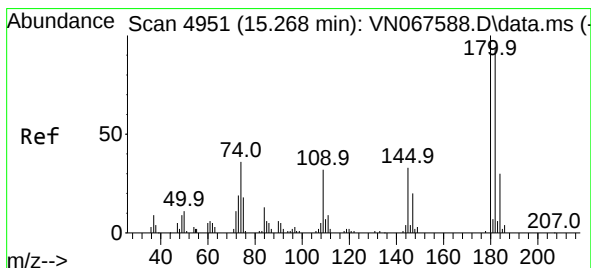
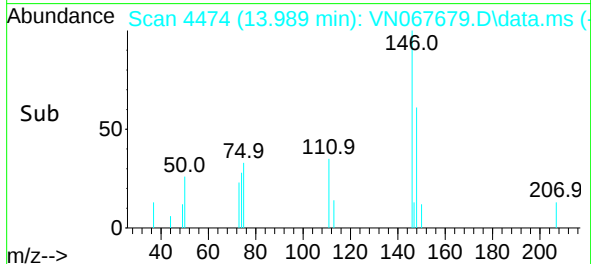
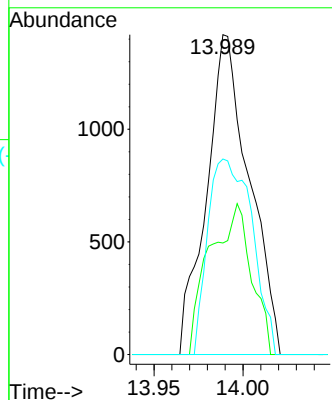
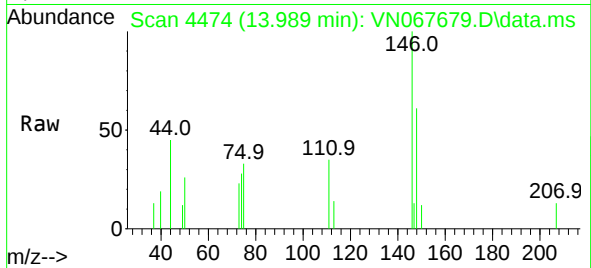




#87
1,2-Dichlorobenzene
Concen: 0.301 ug/l
RT: 13.989 min Scan# 4474
Delta R.T. -0.003 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

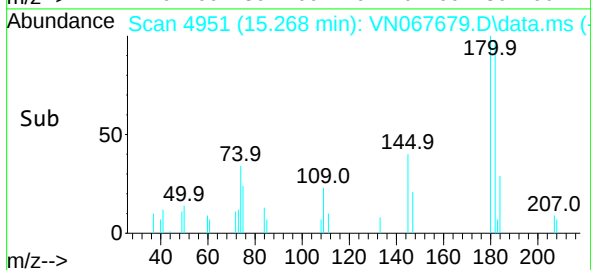
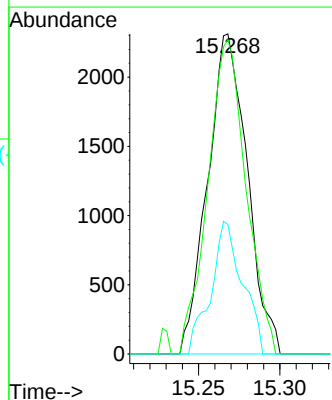
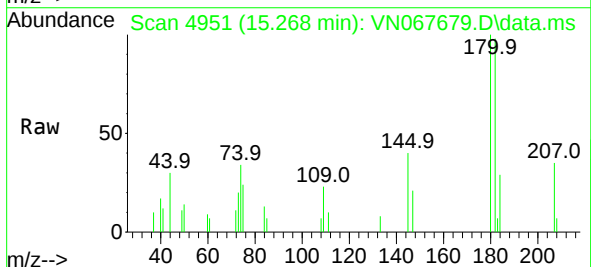
Instrument :
MSVOA_N
ClientSampleId :
VN0709WBL01

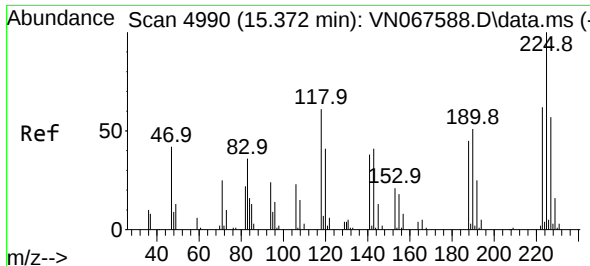
Tgt Ion:146 Resp: 2370
Ion Ratio Lower Upper
146 100
111 19.7 25.0 75.0#
148 63.4 32.0 96.0



#89
1,2,4-Trichlorobenzene
Concen: 1.153 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.000 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

Tgt Ion:180 Resp: 3912
Ion Ratio Lower Upper
180 100
182 95.0 75.9 113.9
145 33.2 28.8 43.2

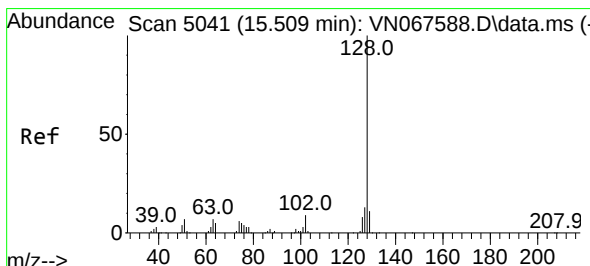
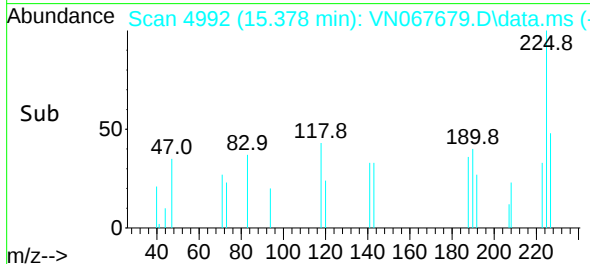
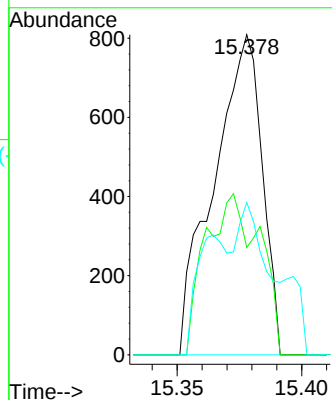
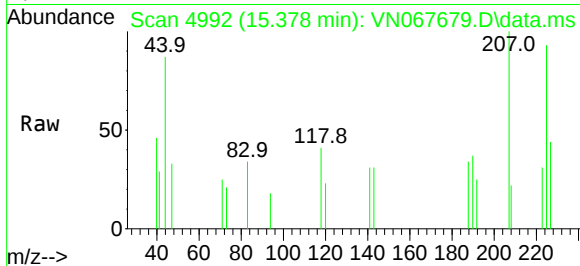




#90
Hexachlorobutadiene
Concen: 0.694 ug/l
RT: 15.378 min Scan# 4992
Delta R.T. 0.005 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

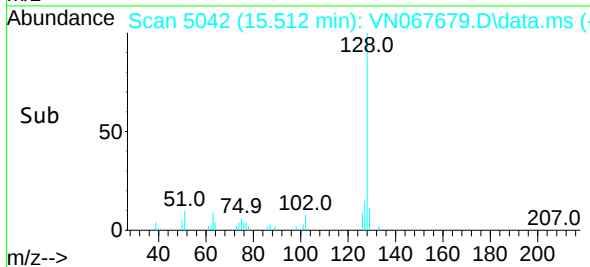
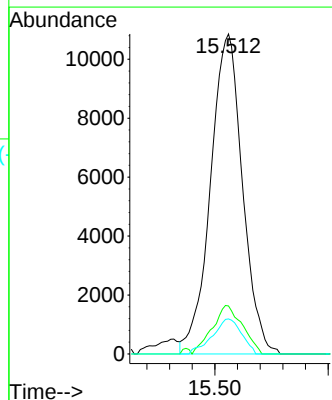
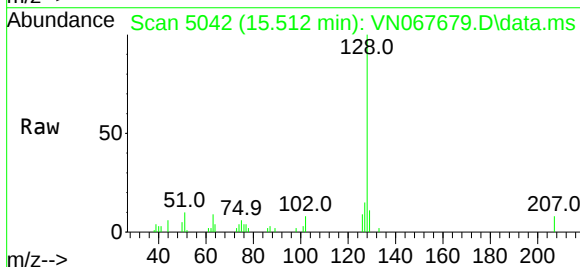
Instrument :
MSVOA_N
ClientSampled :
VN0709WBL01

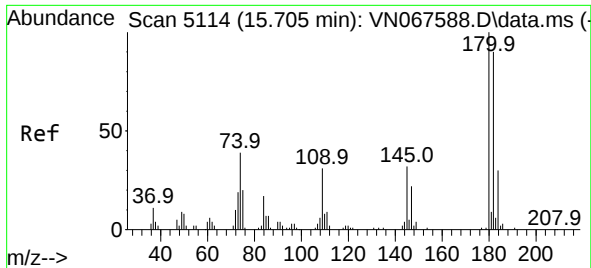
Tgt Ion:225 Resp: 1091
Ion Ratio Lower Upper
225 100
223 15.6 0.0 129.6
227 16.4 0.0 131.2



#91
Naphthalene
Concen: 2.034 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.003 min
Lab File: VN067679.D
Acq: 9 Jul 2021 11:48

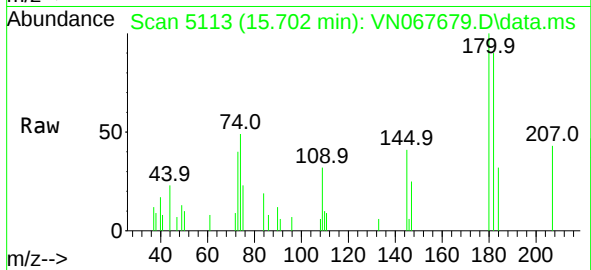
Tgt Ion:128 Resp: 21272
Ion Ratio Lower Upper
128 100
127 14.3 10.1 15.1
129 10.0 8.9 13.3





#92
 1,2,3-Trichlorobenzene
 Concen: 1.656 ug/l
 RT: 15.702 min Scan# 5113
 Delta R.T. -0.003 min
 Lab File: VN067679.D
 Acq: 9 Jul 2021 11:48

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0709WBL01



Tgt Ion:180 Resp: 5361
 Ion Ratio Lower Upper
 180 100
 182 88.0 0.0 184.6
 145 6.0 0.0 76.0

