

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120921\
 Data File : VN069913.D
 Acq On : 9 Dec 2021 15:55
 Operator : JC/MD
 Sample : M4940-07
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-23

Quant Time: Dec 10 06:16:40 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

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

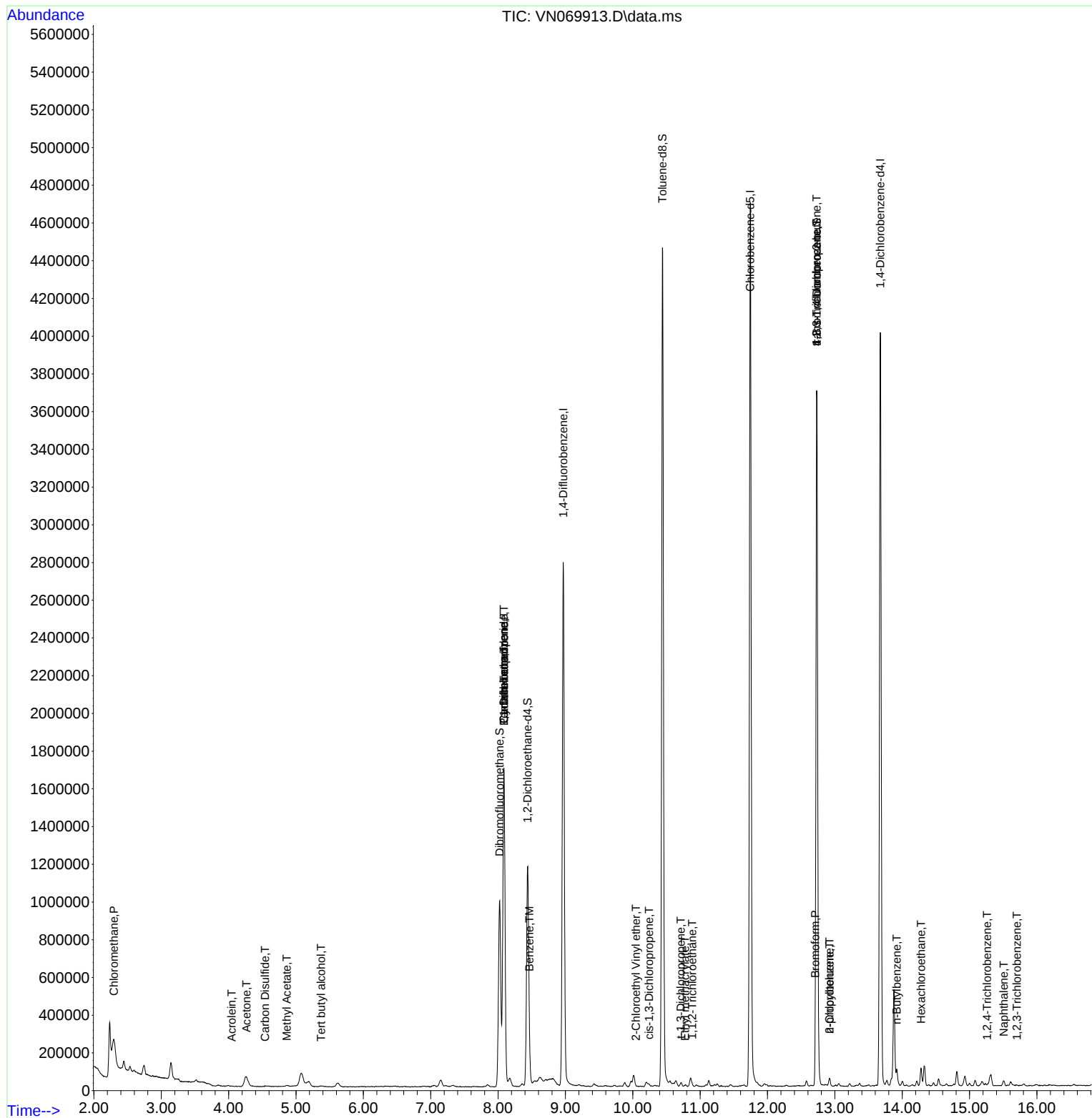
Internal Standards						
1) Pentafluorobenzene	8.088	168	1246329	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2338637	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2599926	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1066623	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	985362	51.205	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 102.420%	
35) Dibromofluoromethane	8.024	113	719005	49.083	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 98.160%	
50) Toluene-d8	10.440	98	3017750	51.305	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 102.620%	
62) 4-Bromofluorobenzene	12.731	95	1253279	58.814	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 117.620%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.298	50	7670	0.421	ug/l #	70
11) Tert butyl alcohol	5.374	59	3914	1.076	ug/l #	71
13) Acrolein	4.044	56	834	0.269	ug/l	86
16) Acetone	4.264	43	50228	4.339	ug/l #	60
17) Carbon Disulfide	4.540	76	6305	0.206	ug/l	100
18) Methyl Acetate	4.862	43	11899	0.341	ug/l #	61
31) Cyclohexane	8.086	56	43076	1.609	ug/l #	60
36) 1,1-Dichloropropene	8.088	75	107209	4.816	ug/l #	49
38) Carbon Tetrachloride	8.086	117	129831	5.947	ug/l #	16
40) Benzene	8.464	78	65712	0.966	ug/l	94
53) t-1,3-Dichloropropene	10.711	75	215	2.802	ug/l	95
54) cis-1,3-Dichloropropene	10.242	75	56	2.001	ug/l #	37
55) 1,1,2-Trichloroethane	10.883	97	4474	0.267	ug/l #	15
56) Ethyl methacrylate	10.776	69	821	2.304	ug/l #	11
58) 2-Chloroethyl Vinyl ether	10.046	63	52	18.395	ug/l #	45
71) Bromoform	12.707	173	308	2.749	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	706730	23.105	ug/l #	1
78) n-propylbenzene	12.921	91	31474	0.298	ug/l	100
79) 2-Chlorotoluene	12.921	91	31474	0.472	ug/l #	38
81) trans-1,4-Dichloro-2-b...	12.731	75	706730	73.538	ug/l #	5
89) n-Butylbenzene	13.919	91	12178	0.209	ug/l #	2
90) Hexachloroethane	14.278	117	38213	3.035	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.260	180	599	2.910	ug/l #	4
95) Naphthalene	15.507	128	24274	4.414	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.702	180	1575	2.523	ug/l	92

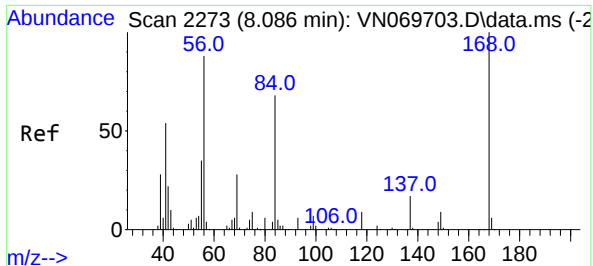
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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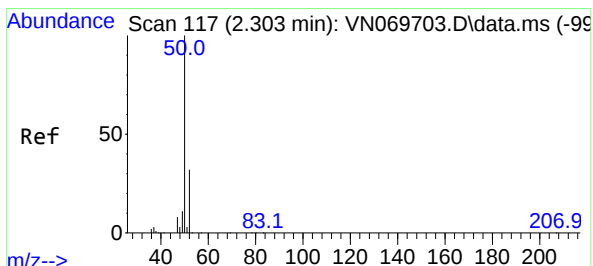
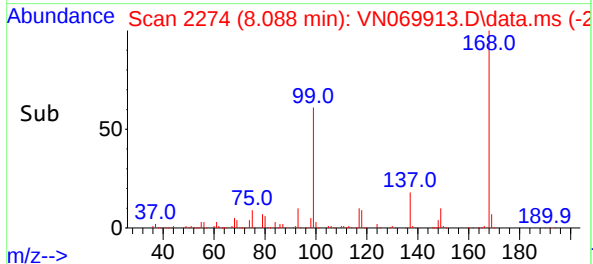
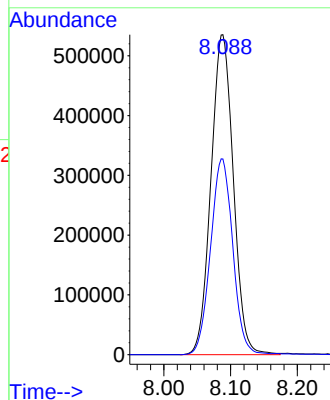
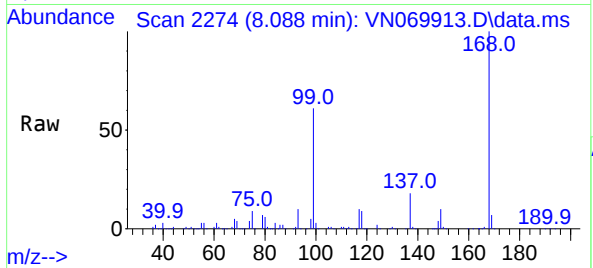




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

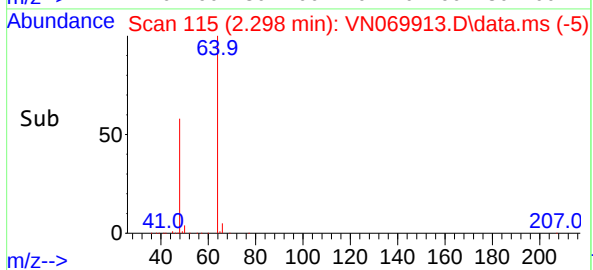
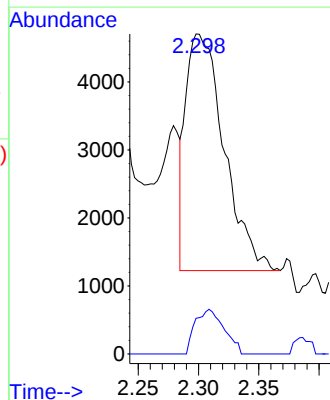
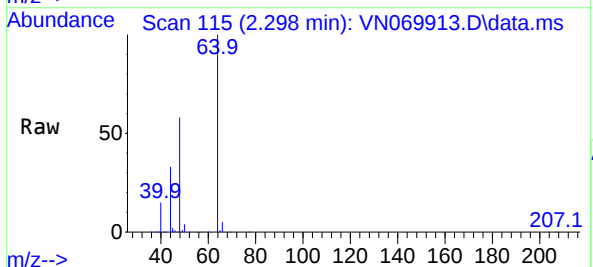
Instrument :
MSVOA_N
ClientSampleId :
MW-23

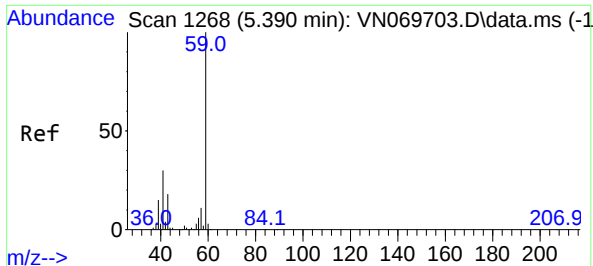
Tgt Ion:168 Resp: 1246329
Ion Ratio Lower Upper
168 100
99 61.1 41.3 61.9



#3
Chloromethane
Concen: 0.421 ug/l
RT: 2.298 min Scan# 115
Delta R.T. -0.005 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion: 50 Resp: 7670
Ion Ratio Lower Upper
50 100
52 15.1 25.4 38.0#

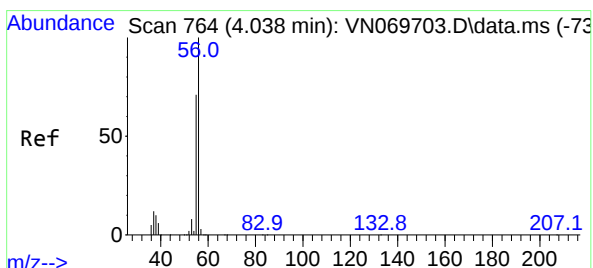
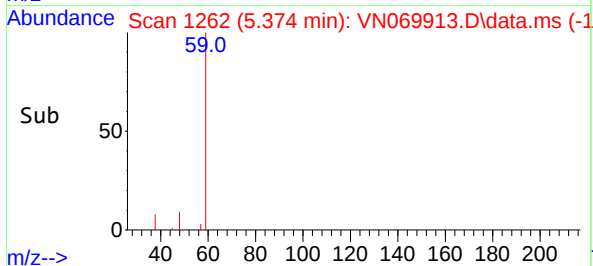
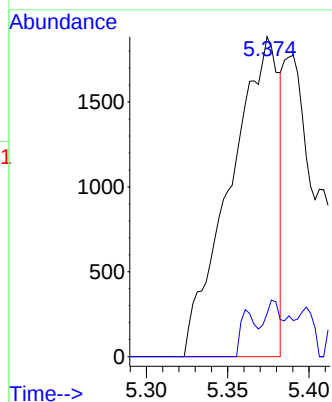
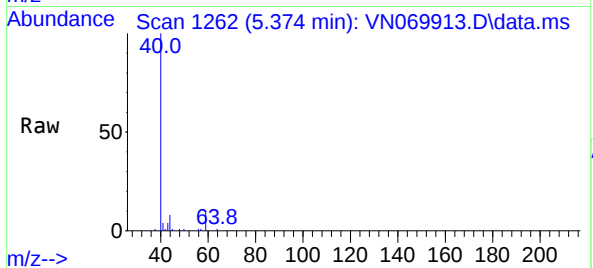




#11
Tert butyl alcohol
Concen: 1.076 ug/l
RT: 5.374 min Scan# 11
Delta R.T. -0.016 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

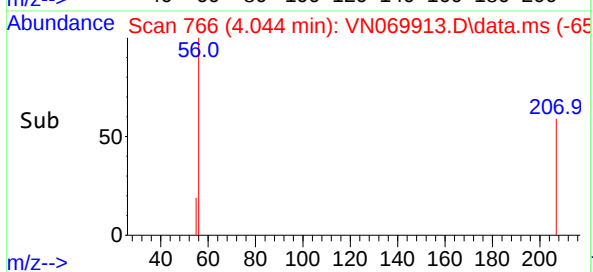
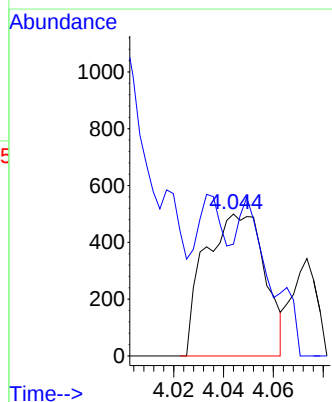
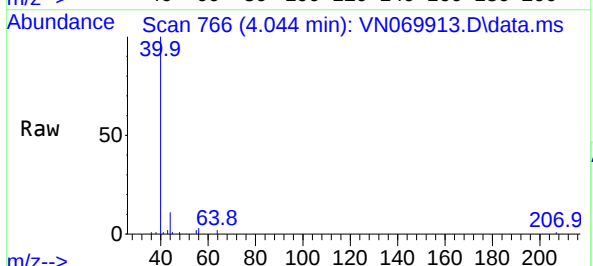
Instrument :
MSVOA_N
ClientSampleId :
MW-23

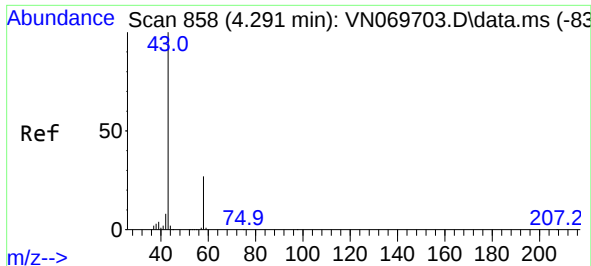
Tgt Ion: 59 Resp: 3914
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: 0.269 ug/l
RT: 4.044 min Scan# 766
Delta R.T. 0.006 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion: 56 Resp: 834
Ion Ratio Lower Upper
56 100
55 59.0 56.6 85.0

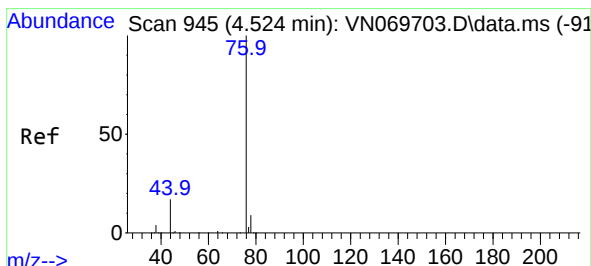
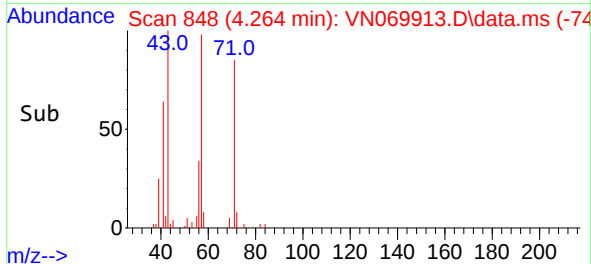
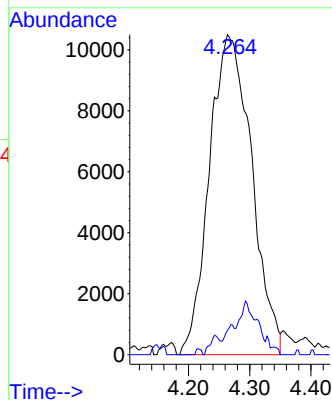
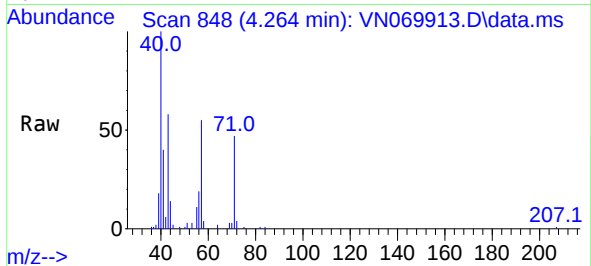




#16
Acetone
Concen: 4.339 ug/l
RT: 4.264 min Scan# 84
Delta R.T. -0.027 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

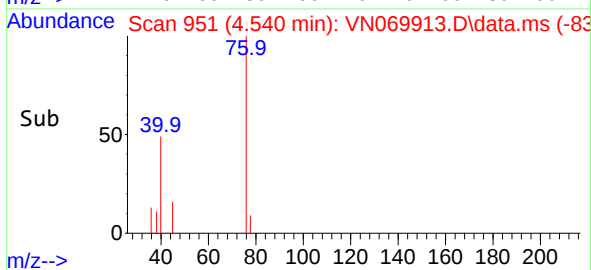
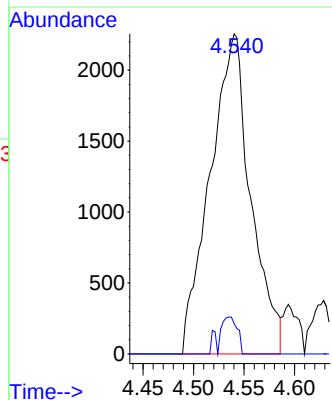
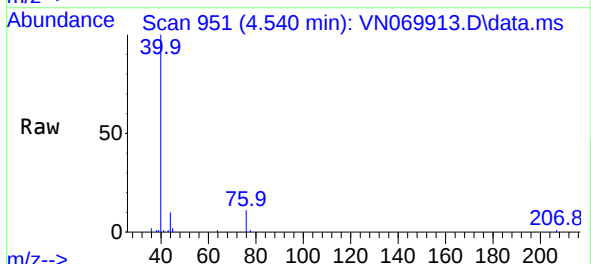
Instrument :
MSVOA_N
ClientSampleId :
MW-23

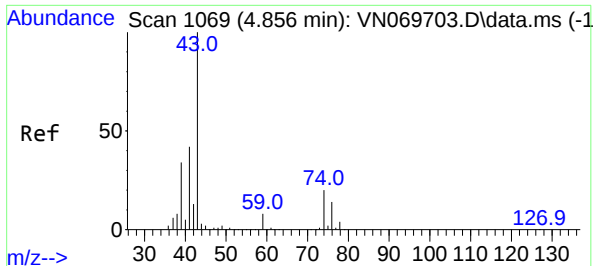
Tgt Ion: 43 Resp: 50228
Ion Ratio Lower Upper
43 100
58 7.7 23.1 34.7#



#17
Carbon Disulfide
Concen: 0.206 ug/l
RT: 4.540 min Scan# 951
Delta R.T. 0.016 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion: 76 Resp: 6305
Ion Ratio Lower Upper
76 100
78 9.5 7.5 11.3

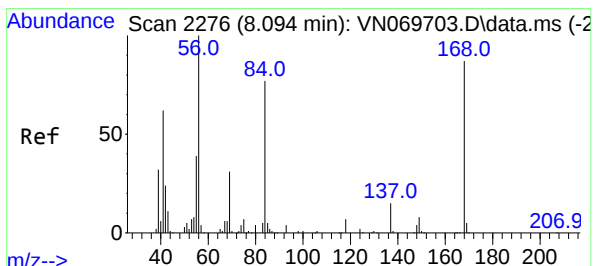
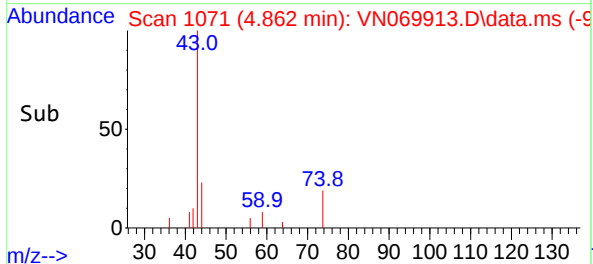
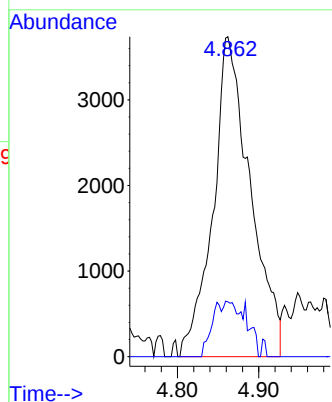
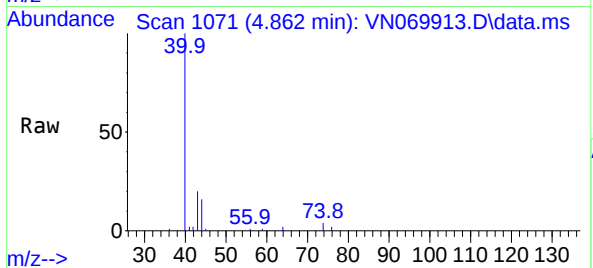




#18
Methyl Acetate
Concen: 0.341 ug/l
RT: 4.862 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

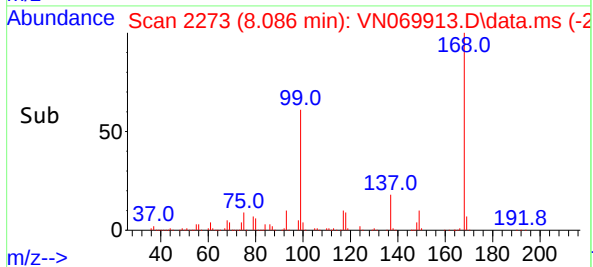
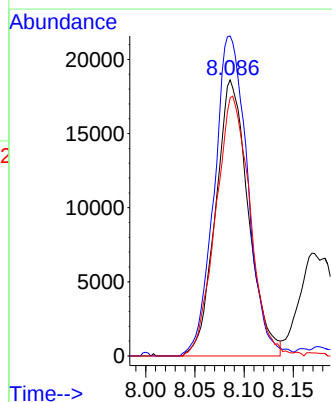
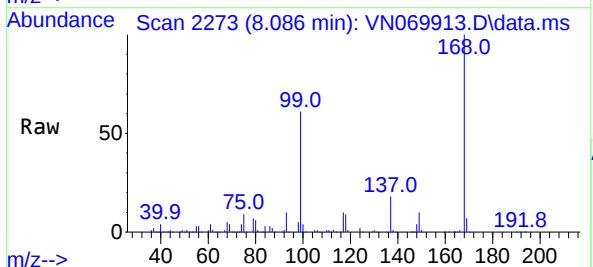
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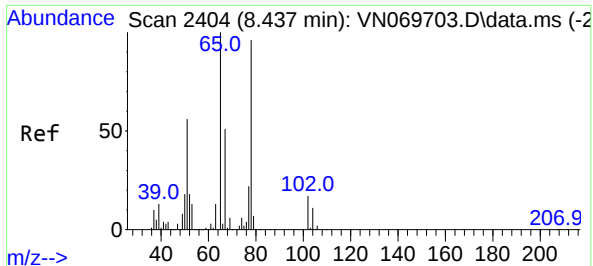
Tgt Ion: 43 Resp: 11899
Ion Ratio Lower Upper
43 100
74 4.8 19.4 29.2#



#31
Cyclohexane
Concen: 1.609 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.008 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion: 56 Resp: 43076
Ion Ratio Lower Upper
56 100
69 115.9 27.1 40.7#
84 93.5 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 51.205 ug/l

RT: 8.437 min Scan# 2404

Delta R.T. 0.000 min

Lab File: VN069913.D

Acq: 9 Dec 2021 15:55

Instrument :

MSVOA_N

ClientSampleId :

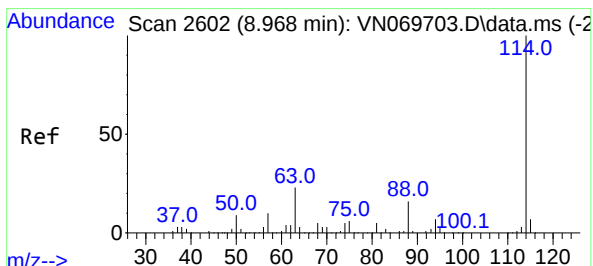
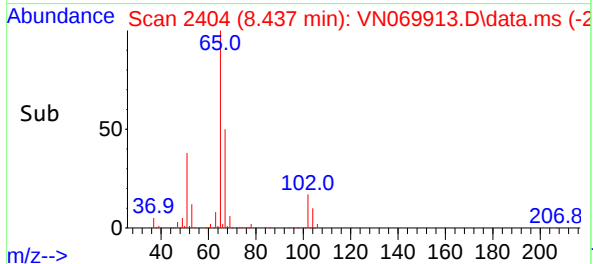
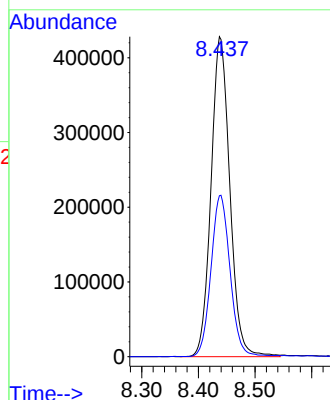
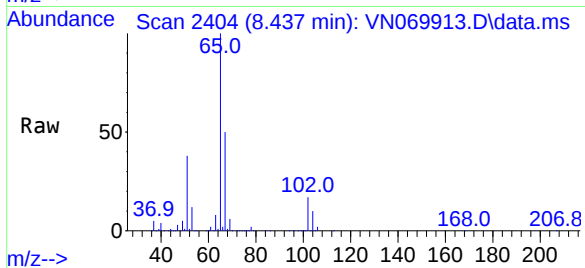
MW-23

Tgt Ion: 65 Resp: 985362

Ion Ratio Lower Upper

65 100

67 51.1 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. 0.000 min

Lab File: VN069913.D

Acq: 9 Dec 2021 15:55

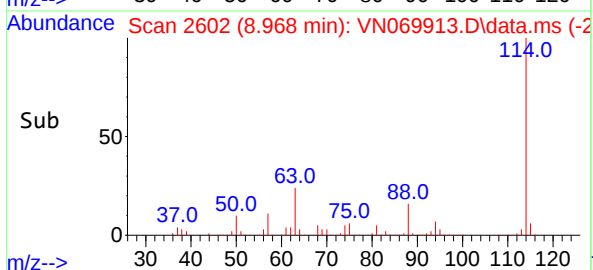
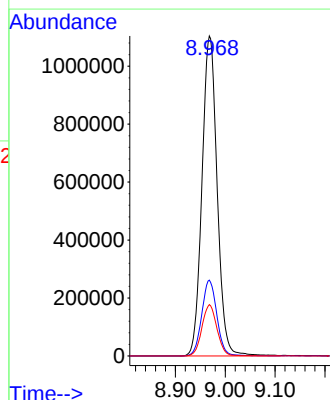
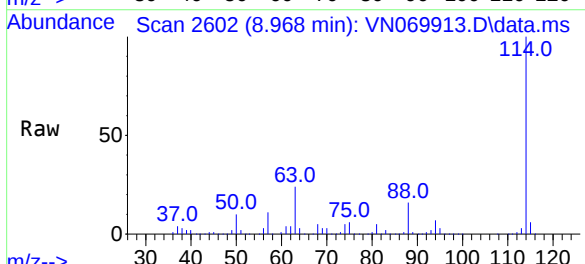
Tgt Ion: 114 Resp: 2338637

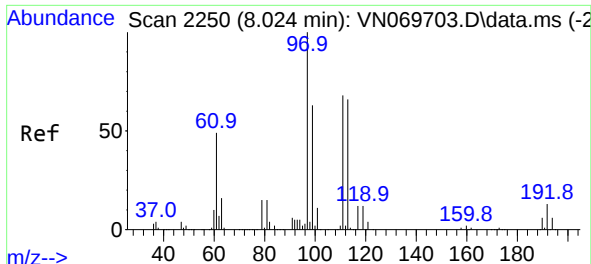
Ion Ratio Lower Upper

114 100

63 23.7 0.0 37.8

88 16.0 0.0 27.4

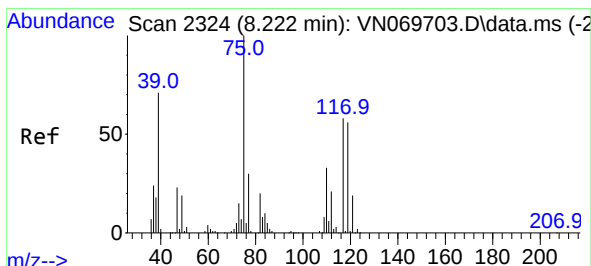
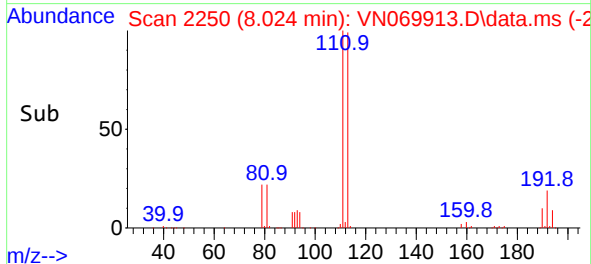
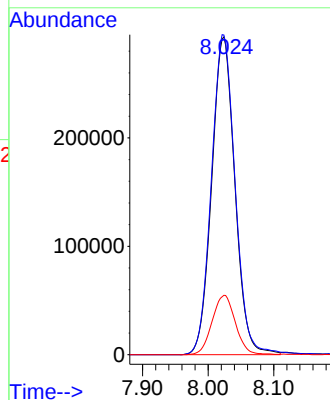
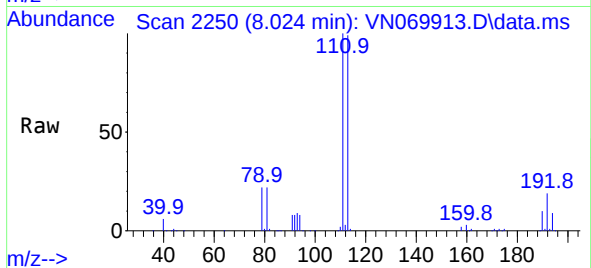




#35
Dibromofluoromethane
Concen: 49.083 ug/l
RT: 8.024 min Scan# 2113
Delta R.T. 0.000 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

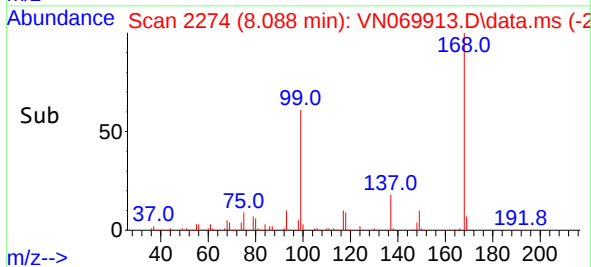
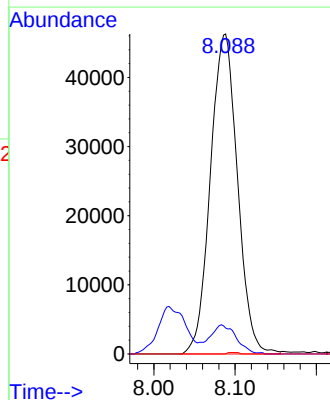
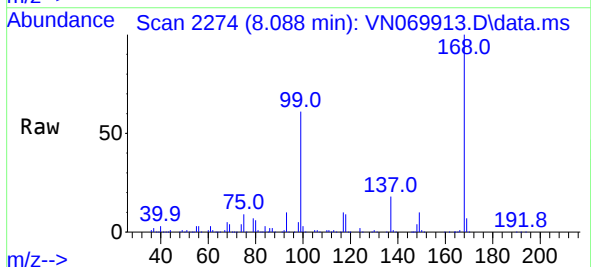
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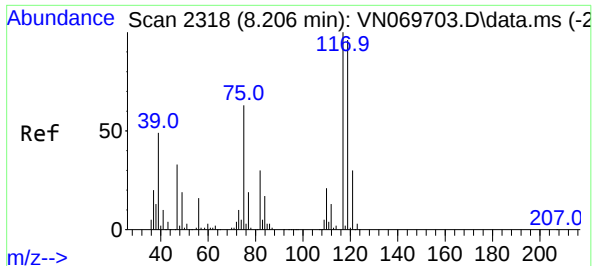
Tgt Ion:113 Resp: 719005
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.2
192 18.8 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.816 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion: 75 Resp: 107209
Ion Ratio Lower Upper
75 100
110 8.5 18.4 55.2#
77 0.0 24.4 36.6#

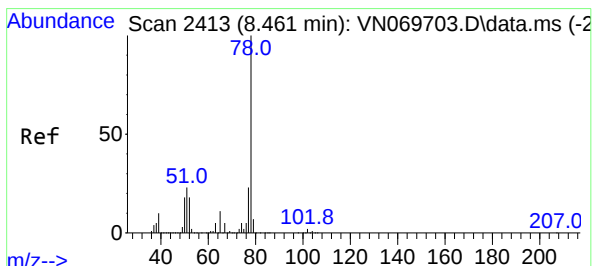
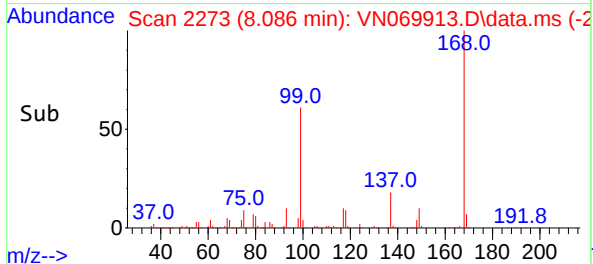
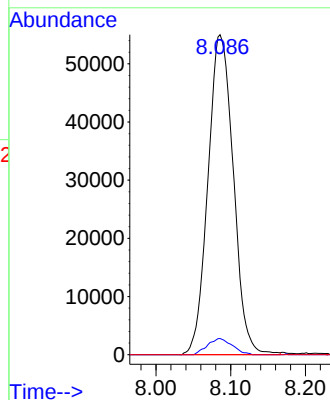
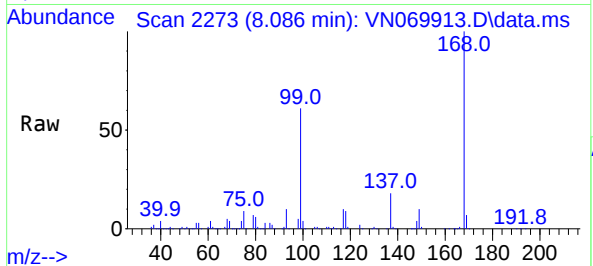




#38
Carbon Tetrachloride
Concen: 5.947 ug/l
RT: 8.086 min Scan# 2117
Delta R.T. -0.121 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

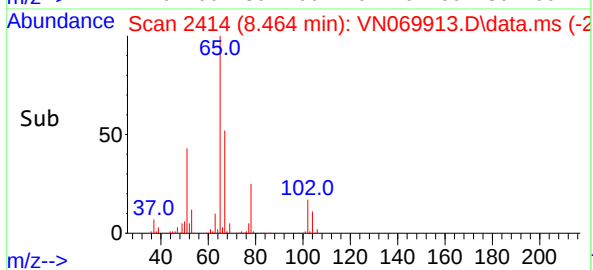
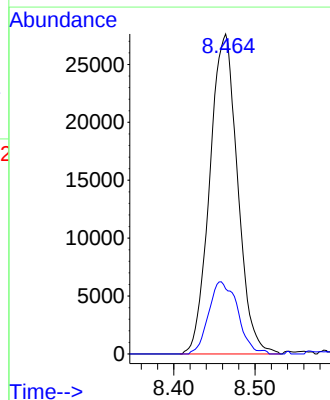
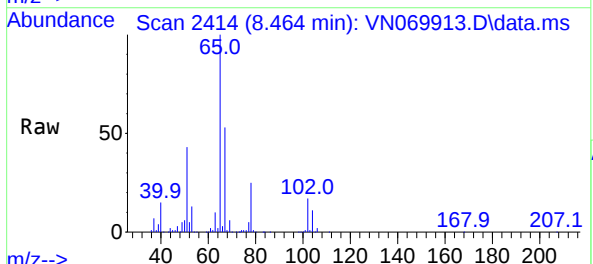
Instrument :
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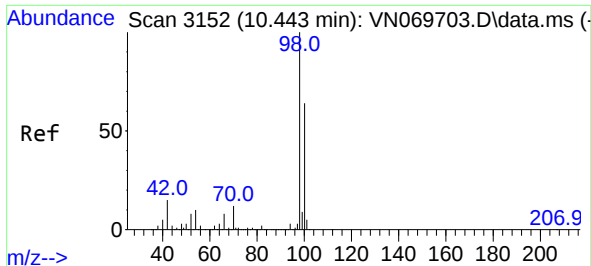
Tgt Ion:117 Resp: 129831
Ion Ratio Lower Upper
117 100
119 5.1 76.1 114.1#
121 0.0 24.2 36.2#



#40
Benzene
Concen: 0.966 ug/l
RT: 8.464 min Scan# 2414
Delta R.T. 0.003 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion: 78 Resp: 65712
Ion Ratio Lower Upper
78 100
77 20.4 18.6 27.8

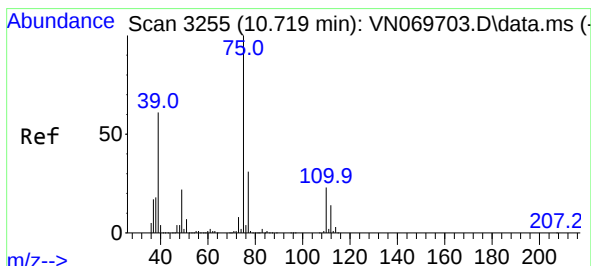
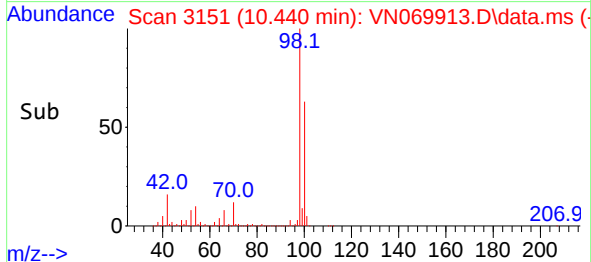
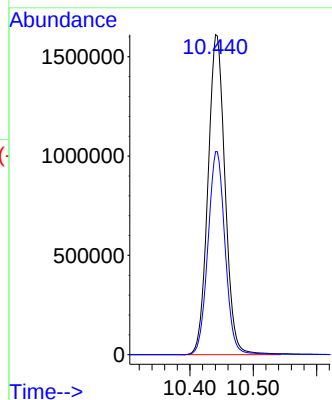
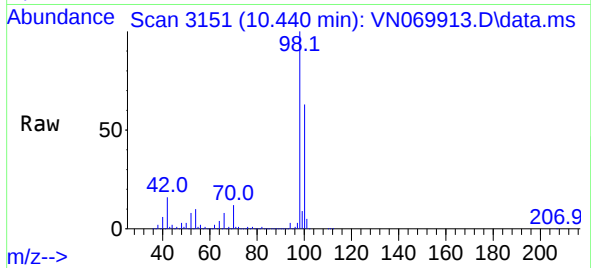




#50
Toluene-d8
Concen: 51.305 ug/l
RT: 10.440 min Scan# 3152
Delta R.T. -0.003 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

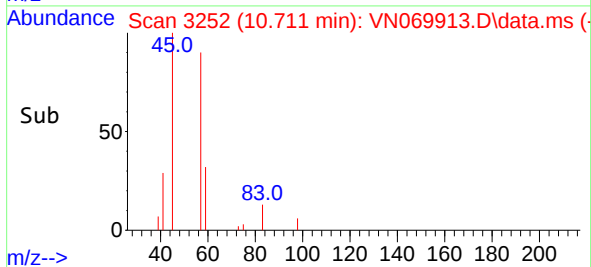
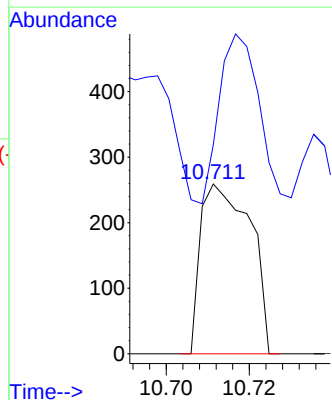
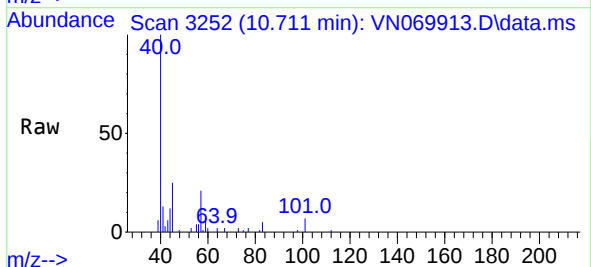
Instrument :
MSVOA_N
ClientSampleId :
MW-23

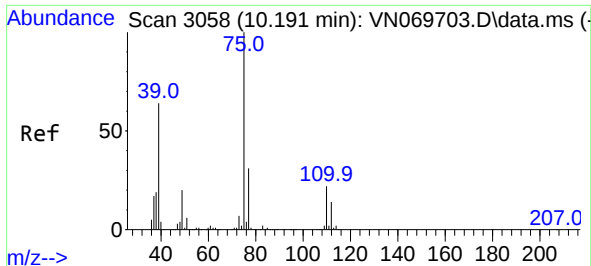
Tgt Ion: 98 Resp: 3017750
Ion Ratio Lower Upper
98 100
100 63.6 50.4 75.6



#53
t-1,3-Dichloropropene
Concen: 2.802 ug/l
RT: 10.711 min Scan# 3252
Delta R.T. -0.008 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

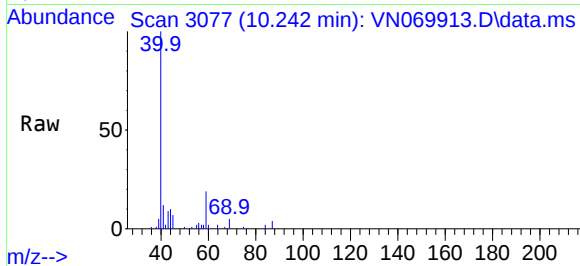
Tgt Ion: 75 Resp: 215
Ion Ratio Lower Upper
75 100
77 29.0 25.6 38.4



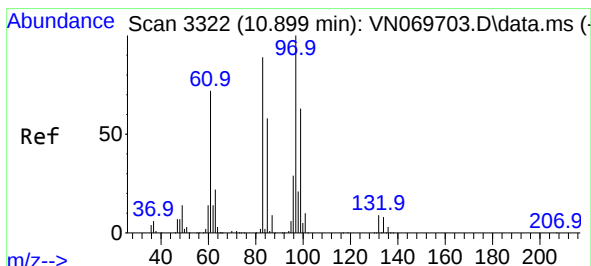
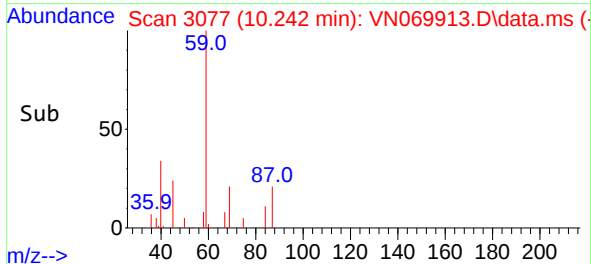
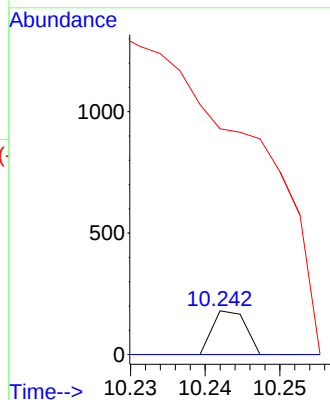


#54
cis-1,3-Dichloropropene
Concen: 2.001 ug/l
RT: 10.242 min Scan# 3058
Delta R.T. 0.051 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Instrument :
MSVOA_N
ClientSampleId :
MW-23

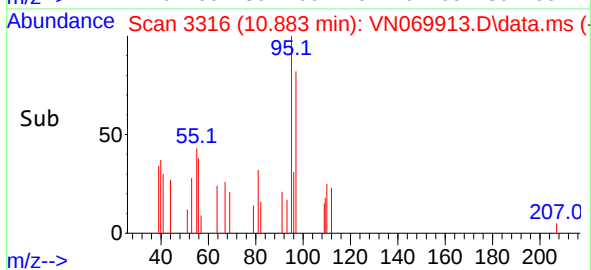
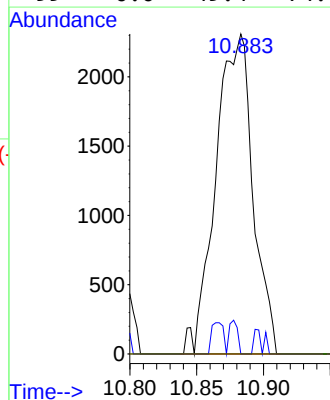
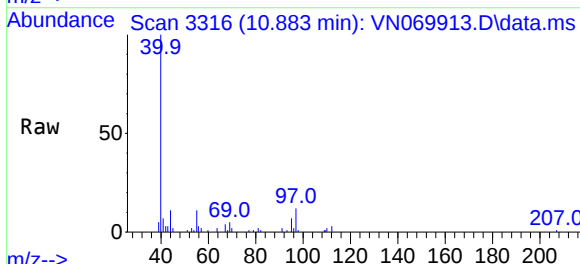


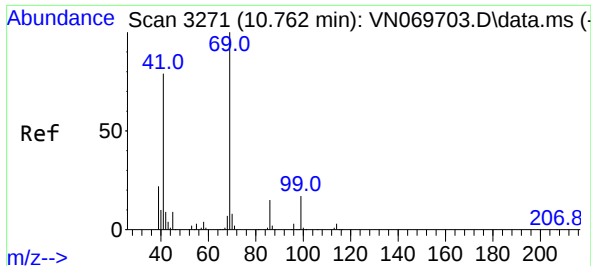
Tgt Ion: 75 Resp: 56
Ion Ratio Lower Upper
75 100
77 0.0 26.4 39.6#
39 99.4 42.5 63.7#



#55
1,1,2-Trichloroethane
Concen: 0.267 ug/l
RT: 10.883 min Scan# 3316
Delta R.T. -0.016 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion: 97 Resp: 4474
Ion Ratio Lower Upper
97 100
83 0.0 67.8 101.6#
85 0.0 45.4 68.2#
99 0.0 49.4 74.0#

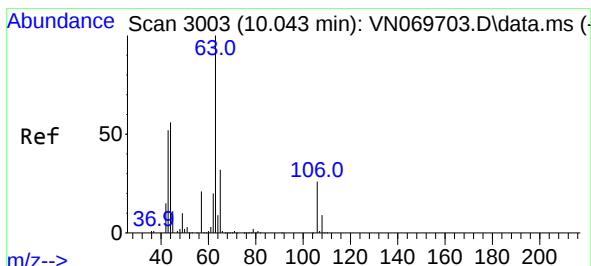
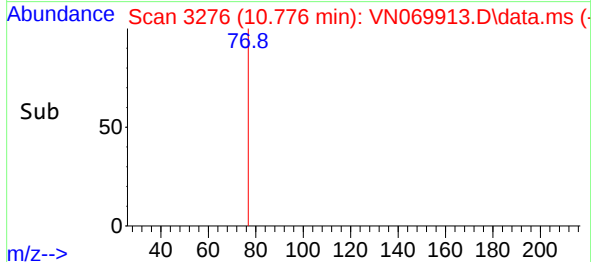
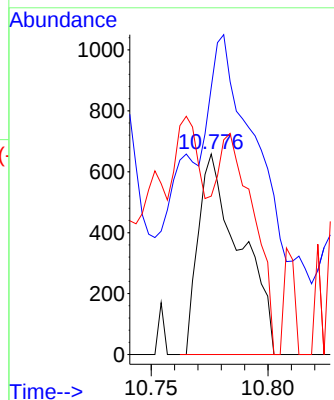
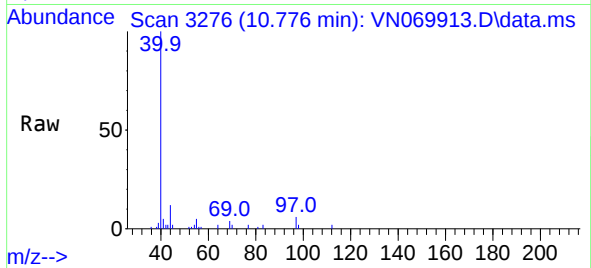




#56
Ethyl methacrylate
Concen: 2.304 ug/l
RT: 10.776 min Scan# 31
Delta R.T. 0.014 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

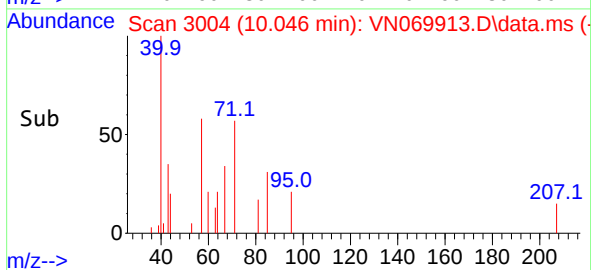
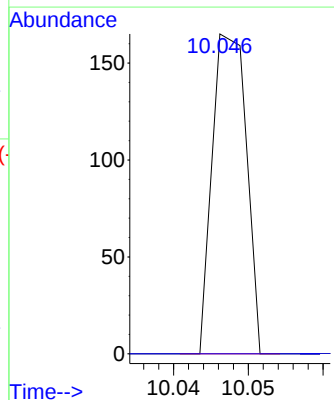
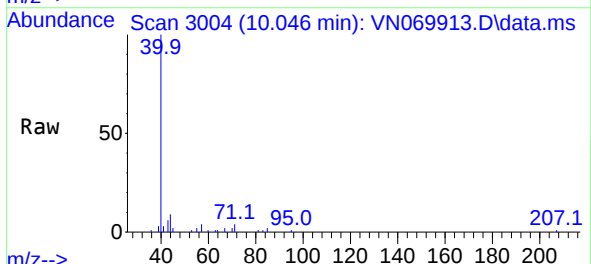
Instrument :
MSVOA_N
ClientSampleId :
MW-23

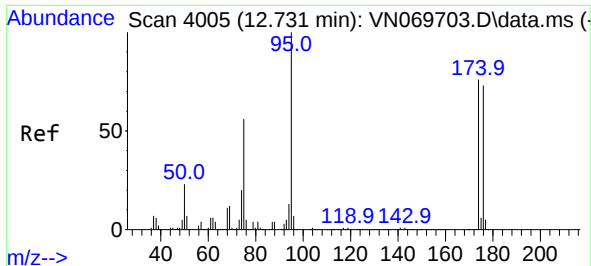
Tgt Ion: 69 Resp: 821
Ion Ratio Lower Upper
69 100
41 138.4 51.4 77.0#
39 95.4 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.395 ug/l
RT: 10.046 min Scan# 3004
Delta R.T. 0.003 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion: 63 Resp: 52
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

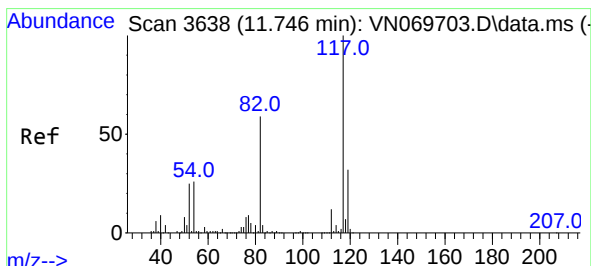
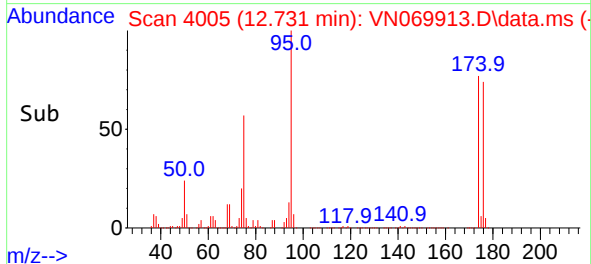
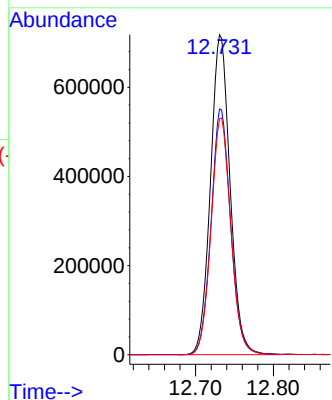
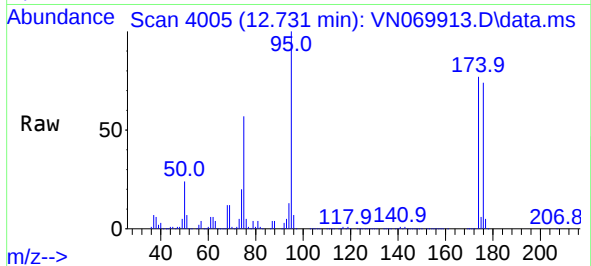




#62
4-Bromofluorobenzene
Concen: 58.814 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

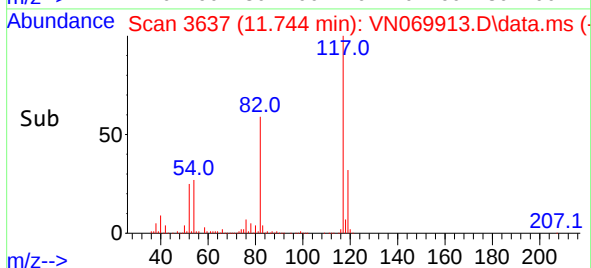
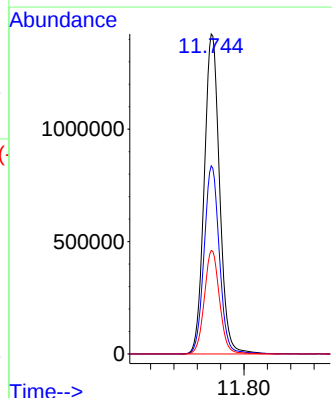
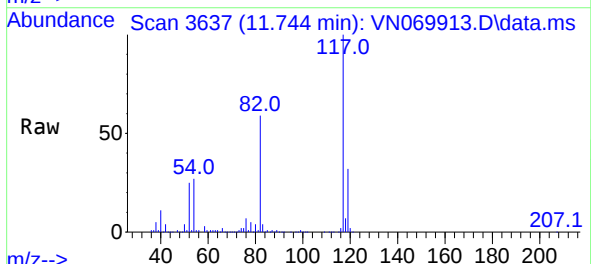
Instrument :
MSVOA_N
ClientSampleId :
MW-23

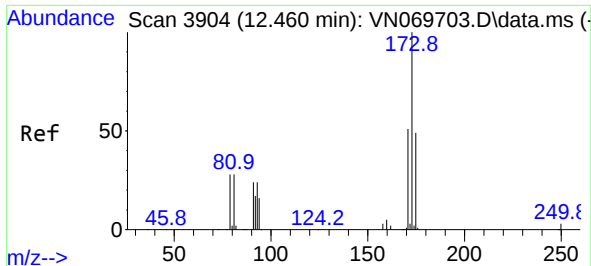
Tgt Ion: 95 Resp: 1253279
Ion Ratio Lower Upper
95 100
174 76.7 0.0 187.2
176 74.5 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion: 117 Resp: 2599926
Ion Ratio Lower Upper
117 100
82 58.8 42.4 63.6
119 32.4 25.4 38.2

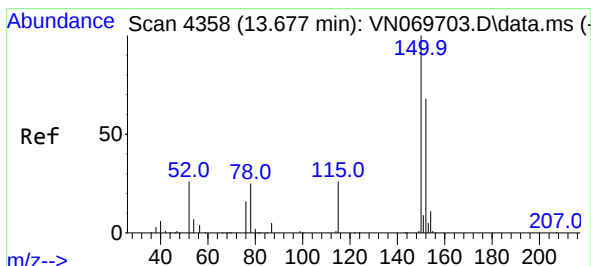
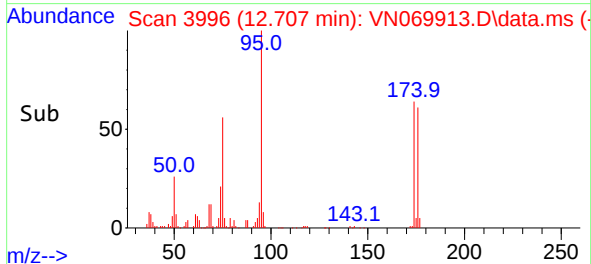
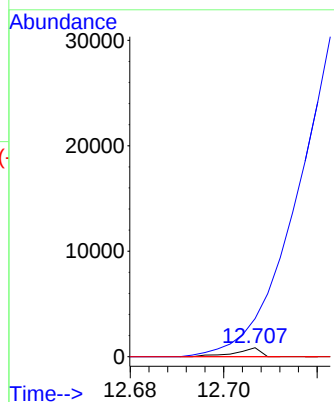
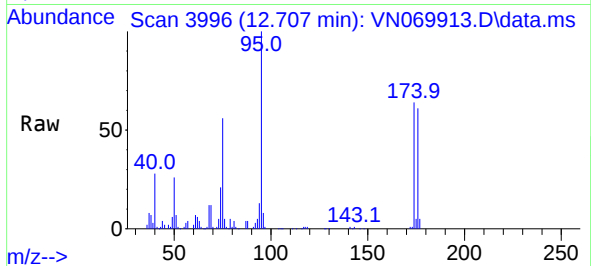




#71
Bromoform
Concen: 2.749 ug/l
RT: 12.707 min Scan# 3904
Delta R.T. 0.247 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

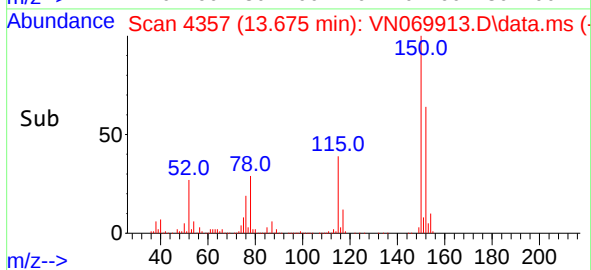
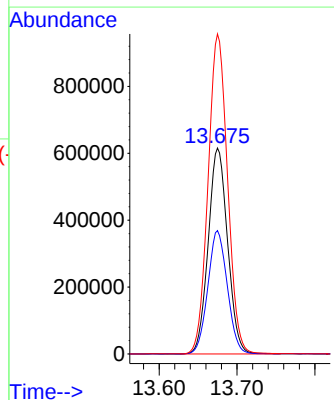
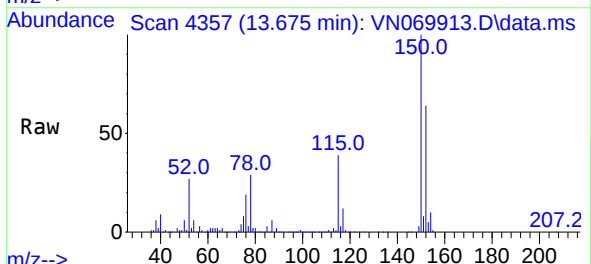
Instrument :
MSVOA_N
ClientSampleId :
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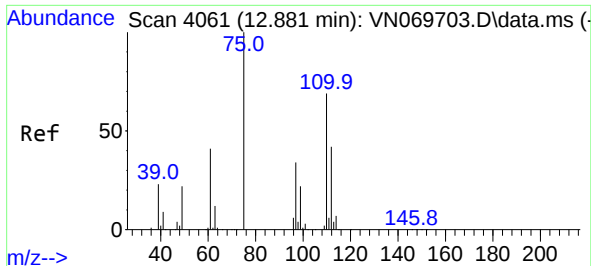
Tgt Ion:173 Resp: 308
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.003 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion:152 Resp: 1066623
Ion Ratio Lower Upper
152 100
115 60.1 27.5 82.5
150 155.9 0.0 344.4

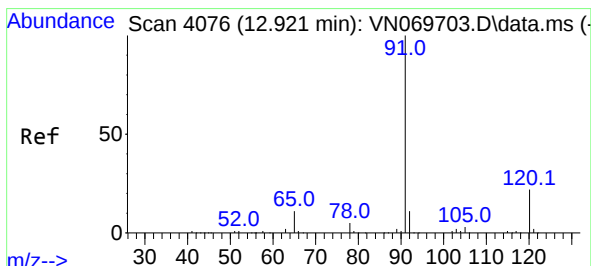
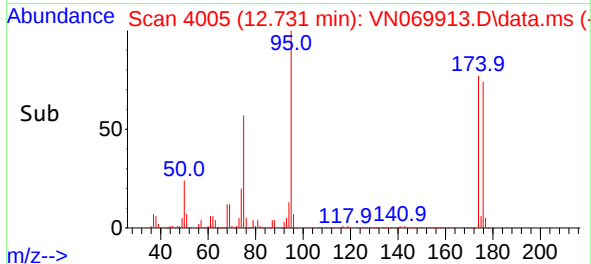
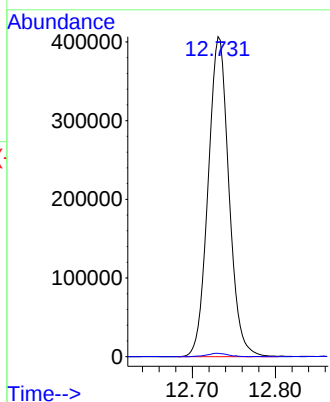
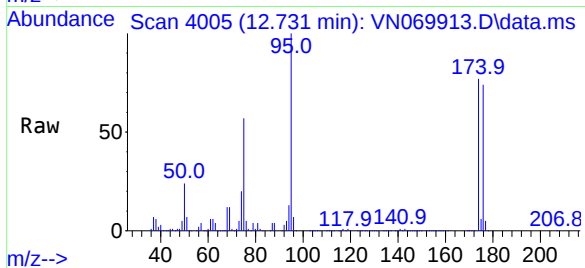




#76
1,2,3-Trichloropropane
Concen: 23.105 ug/l
RT: 12.731 min Scan# 4061
Delta R.T. -0.150 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

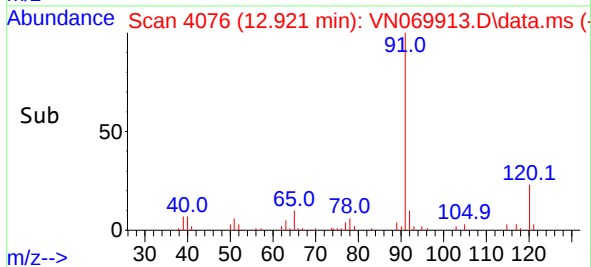
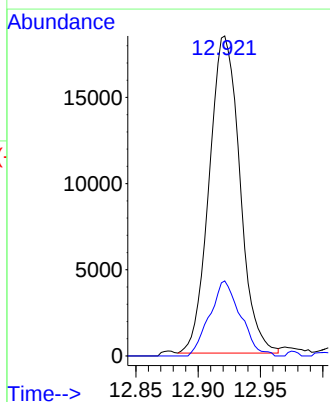
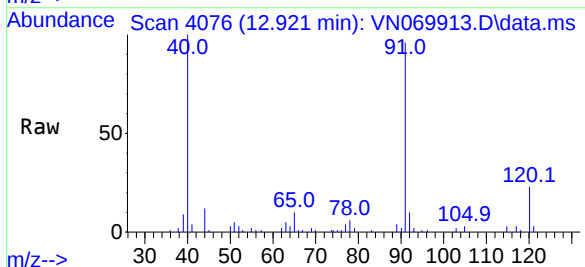
Instrument :
MSVOA_N
ClientSampleId :
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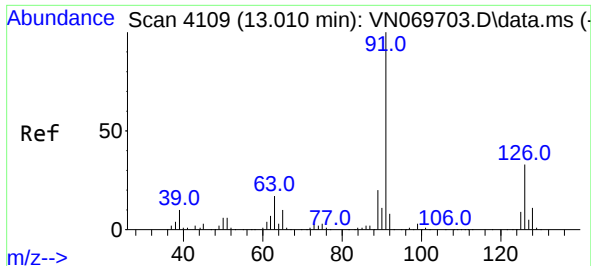
Tgt Ion: 75 Resp: 706730
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#78
n-propylbenzene
Concen: 0.298 ug/l
RT: 12.921 min Scan# 4076
Delta R.T. 0.000 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion: 91 Resp: 31474
Ion Ratio Lower Upper
91 100
120 23.8 11.9 35.9

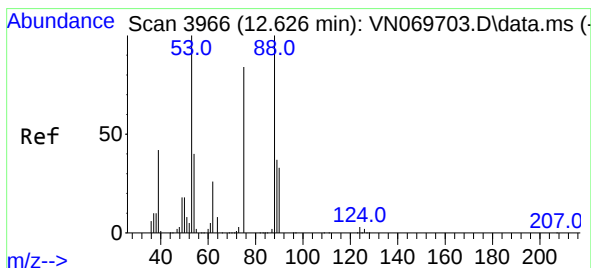
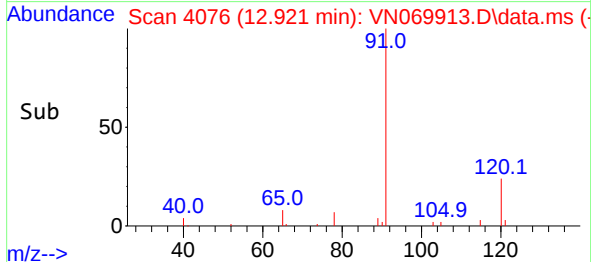
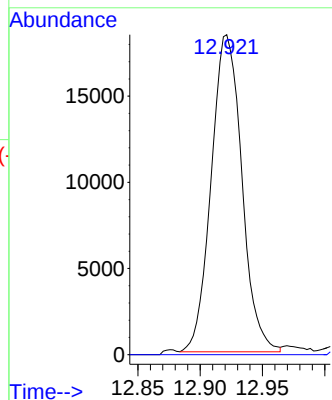
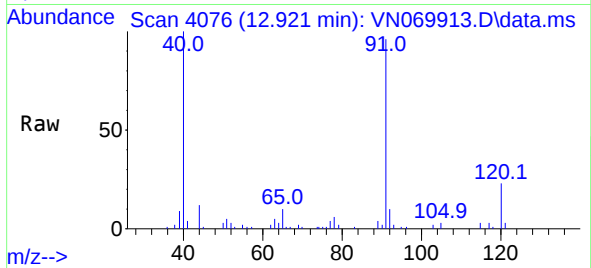




#79
2-Chlorotoluene
Concen: 0.472 ug/l
RT: 12.921 min Scan# 4005
Delta R.T. -0.088 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

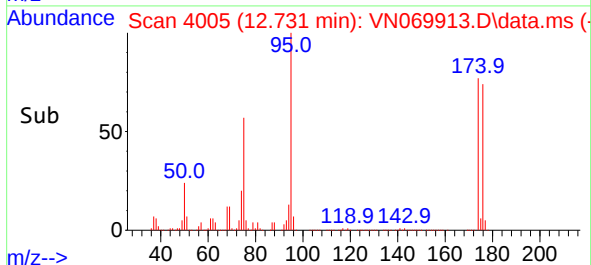
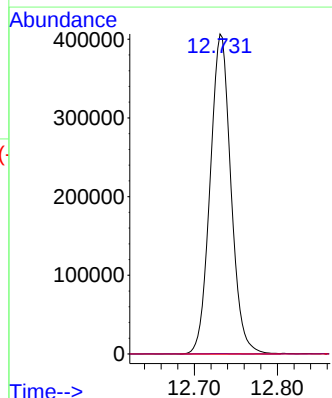
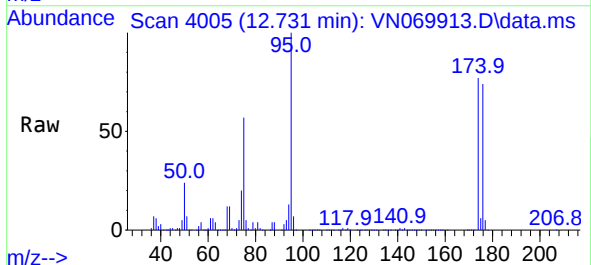
Instrument :
MSVOA_N
ClientSampleId :
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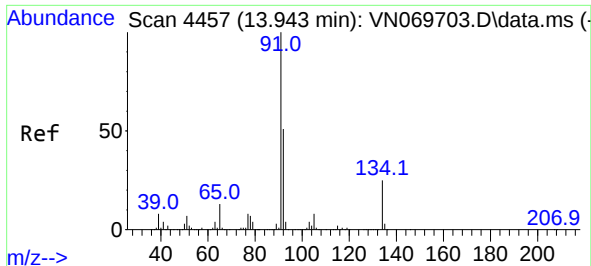
Tgt Ion: 91 Resp: 31474
Ion Ratio Lower Upper
91 100
126 0.0 18.3 54.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.538 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion: 75 Resp: 706730
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#

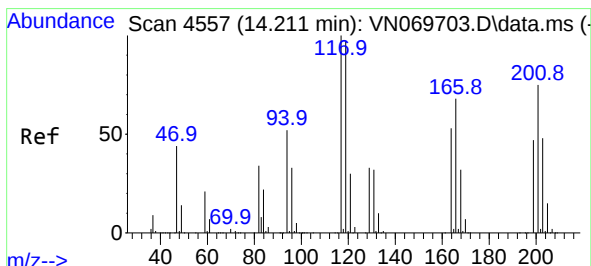
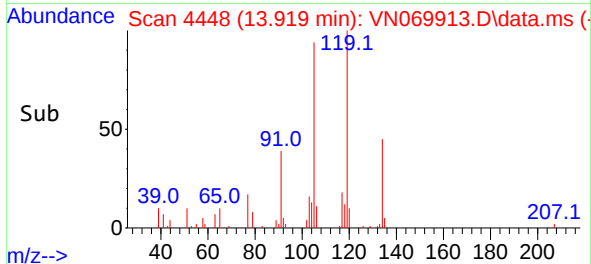
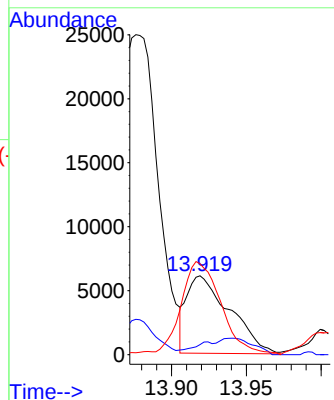
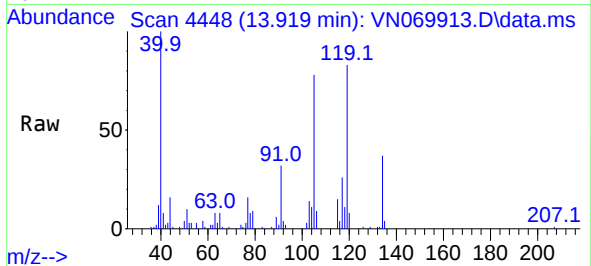




#89
n-Butylbenzene
Concen: 0.209 ug/l
RT: 13.919 min Scan# 4457
Delta R.T. -0.024 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

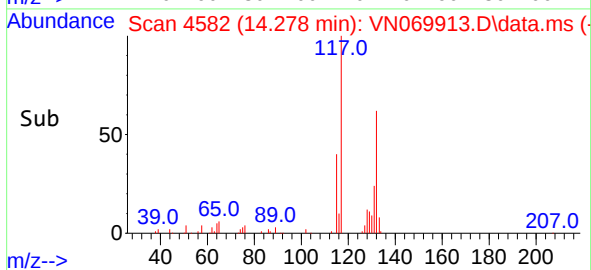
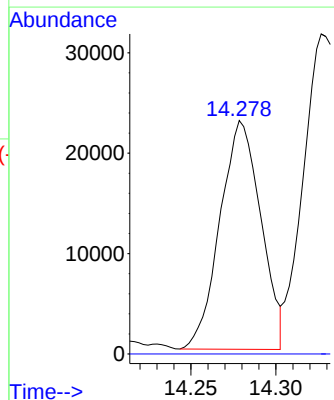
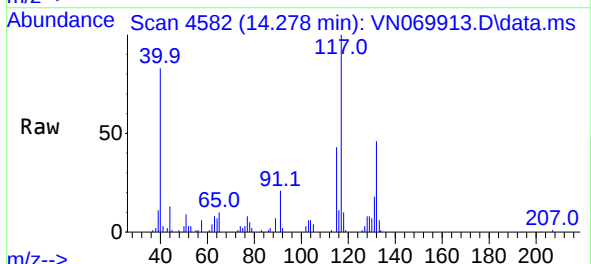
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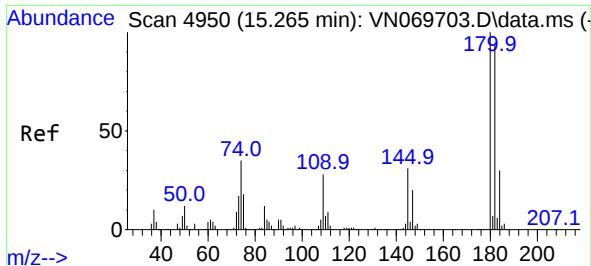
Tgt Ion: 91 Resp: 12178
Ion Ratio Lower Upper
91 100
92 7.5 25.4 76.0#
134 112.0 13.6 40.8#



#90
Hexachloroethane
Concen: 3.035 ug/l
RT: 14.278 min Scan# 4582
Delta R.T. 0.067 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

Tgt Ion: 117 Resp: 38213
Ion Ratio Lower Upper
117 100
201 0.0 43.9 131.6#

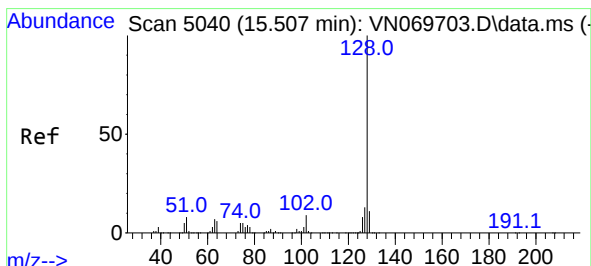
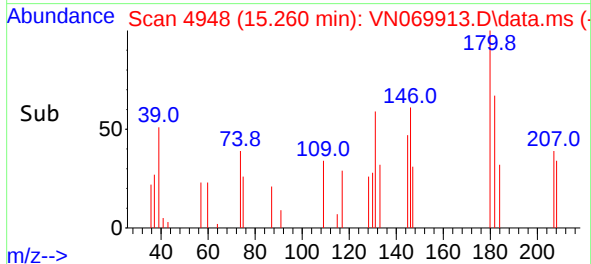
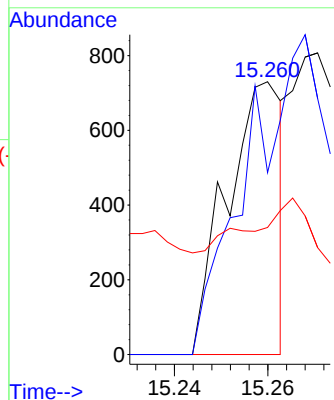
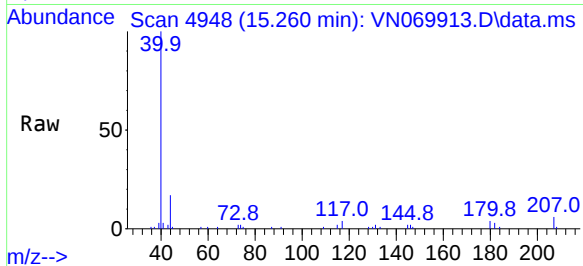




#93
1,2,4-Trichlorobenzene
Concen: 2.910 ug/l
RT: 15.260 min Scan# 4950
Delta R.T. -0.005 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

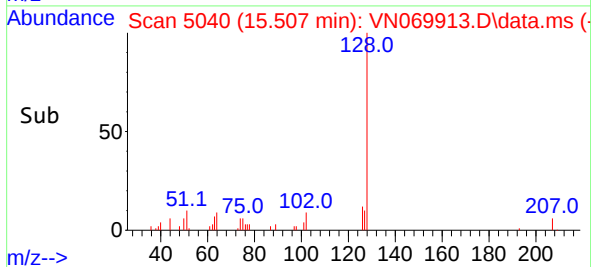
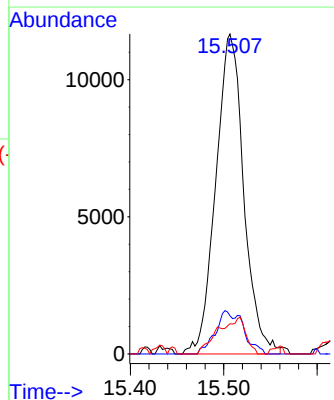
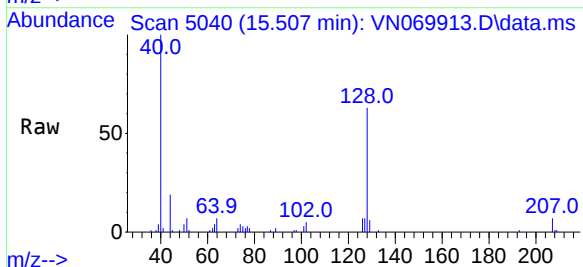
Instrument :
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ClientSampleId :
MW-23

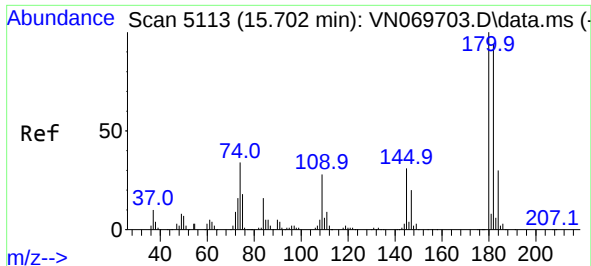
Tgt Ion:180 Resp: 599
Ion Ratio Lower Upper
180 100
182 203.0 48.3 144.9#
145 0.0 14.5 43.5#



#95
Naphthalene
Concen: 4.414 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN069913.D
Acq: 9 Dec 2021 15:55

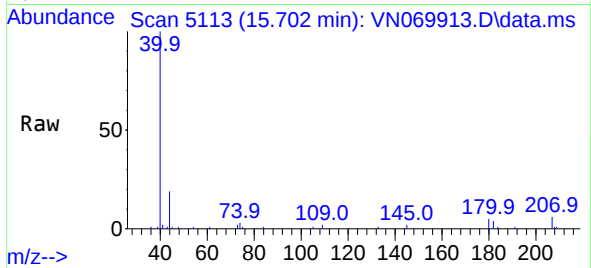
Tgt Ion:128 Resp: 24274
Ion Ratio Lower Upper
128 100
127 8.1 10.5 15.7#
129 3.9 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.523 ug/l
 RT: 15.702 min Scan# 5113
 Delta R.T. 0.000 min
 Lab File: VN069913.D
 Acq: 9 Dec 2021 15:55

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-23



Tgt Ion:	180	Resp:	1575
Ion	Ratio	Lower	Upper
180	100		
182	100.9	47.4	142.2
145	36.5	15.0	45.1

