

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122121\
 Data File : VN070263.D
 Acq On : 21 Dec 2021 13:20
 Operator : JC/MD
 Sample : M5165-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 15:26:01 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)

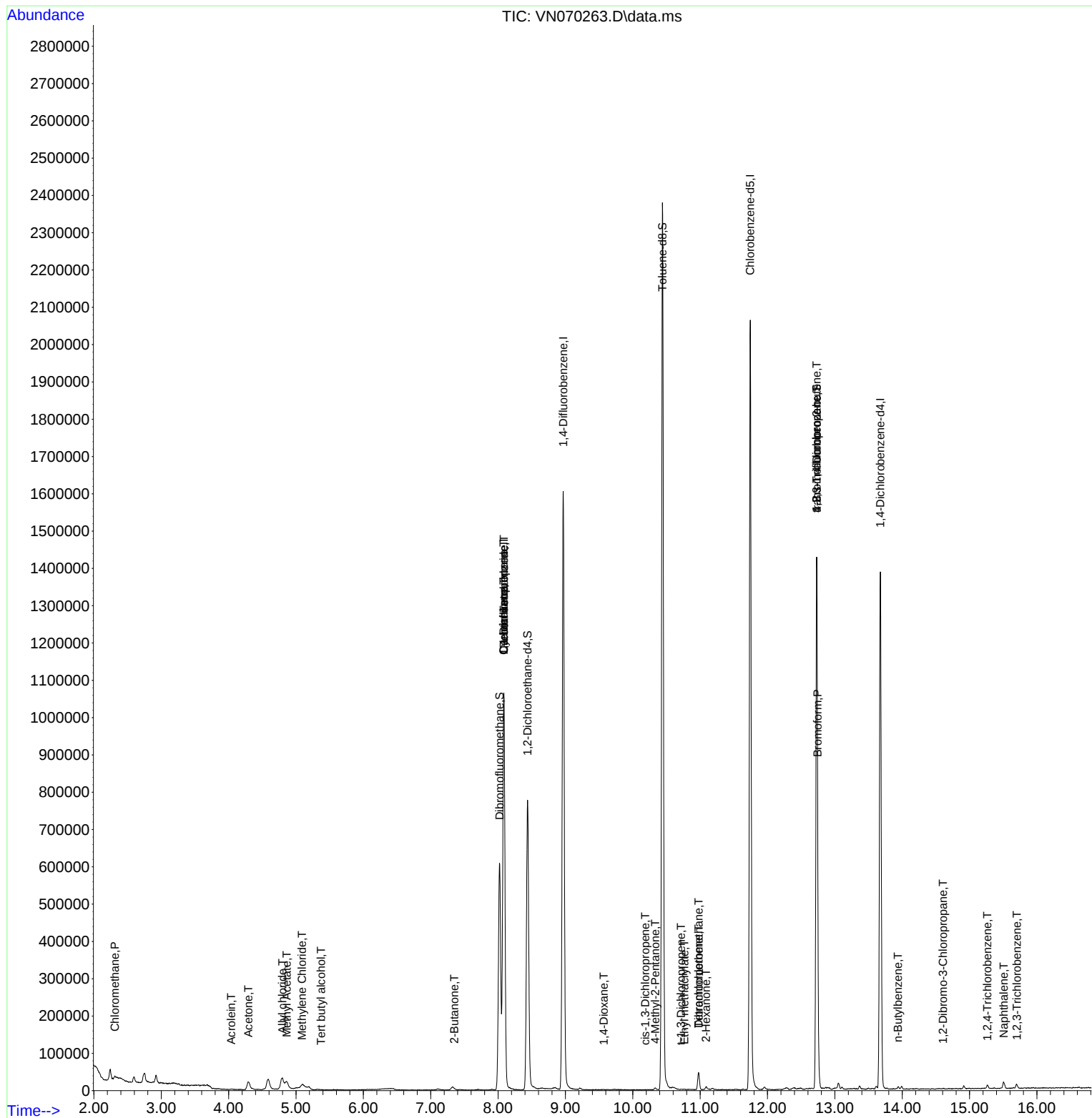
Internal Standards						
1) Pentafluorobenzene	8.086	168	802583	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	1363157	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	1159174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	378822	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	677813	54.698	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 109.400%	
35) Dibromofluoromethane	8.024	113	447928	52.460	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 104.920%	
50) Toluene-d8	10.441	98	1633344	47.640	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 95.280%	
62) 4-Bromofluorobenzene	12.731	95	520195	41.881	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 83.760%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.309	50	4329	0.369	ug/l	93
11) Tert butyl alcohol	5.374	59	718	0.307	ug/l #	71
13) Acrolein	4.039	56	1032	0.517	ug/l	96
14) Allyl chloride	4.798	41	57509	3.338	ug/l #	37
16) Acetone	4.293	43	39316	5.274	ug/l	92
18) Methyl Acetate	4.865	43	39415	1.752	ug/l	94
20) Methylene Chloride	5.090	84	5885	0.594	ug/l #	90
25) 2-Butanone	7.351	43	3819	0.377	ug/l #	73
31) Cyclohexane	8.083	56	19460	1.128	ug/l #	31
36) 1,1-Dichloropropene	8.083	75	68836	5.305	ug/l #	49
38) Carbon Tetrachloride	8.088	117	83838	6.588	ug/l #	16
49) 1,4-Dioxane	9.572	88	49	0.205	ug/l #	1
51) 4-Methyl-2-Pentanone	10.336	43	4158	0.224	ug/l #	65
53) t-1,3-Dichloropropene	10.714	75	244	2.809	ug/l #	51
54) cis-1,3-Dichloropropene	10.186	75	300	2.016	ug/l #	55
56) Ethyl methacrylate	10.768	69	600	2.310	ug/l #	33
59) 2-Hexanone	11.087	43	6781	0.483	ug/l	89
60) Dibromochloromethane	10.977	129	10426	3.325	ug/l #	11
64) Tetrachloroethene	10.977	164	10608	1.350	ug/l	96
71) Bromoform	12.744	173	568	2.807	ug/l #	1
76) 1,2,3-Trichloropropane	12.731	75	283052	26.055	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	283052	82.409	ug/l #	5
89) n-Butylbenzene	13.938	91	4412	0.214	ug/l	76
92) 1,2-Dibromo-3-Chloropr...	14.606	75	436	0.207	ug/l #	19
93) 1,2,4-Trichlorobenzene	15.265	180	3313	3.380	ug/l	93
95) Naphthalene	15.507	128	15652	4.763	ug/l	96
96) 1,2,3-Trichlorobenzene	15.703	180	4309	3.112	ug/l	97

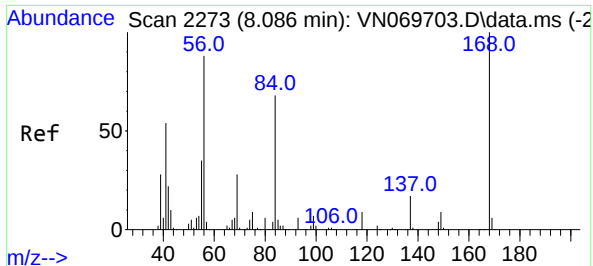
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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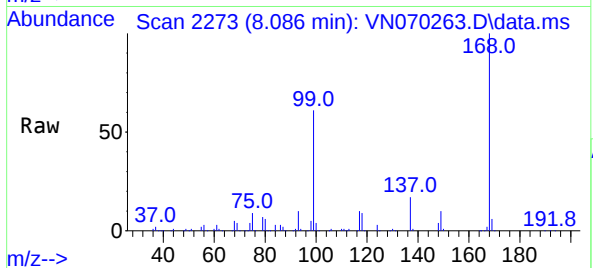
Quant Time: Dec 21 15:26:01 2021
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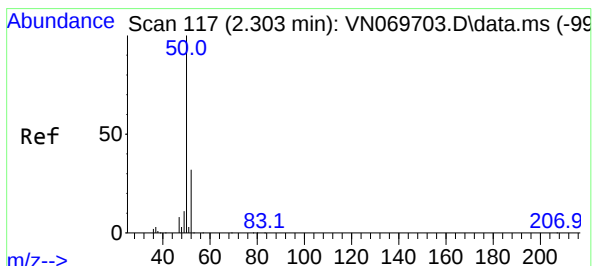
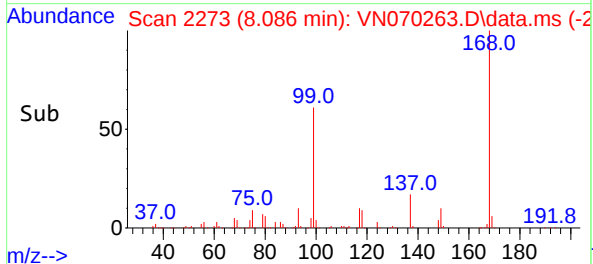
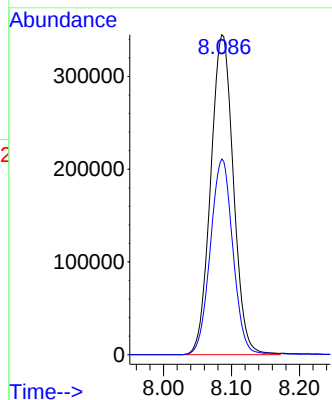


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Instrument :
MSVOA_N
ClientSampleId :

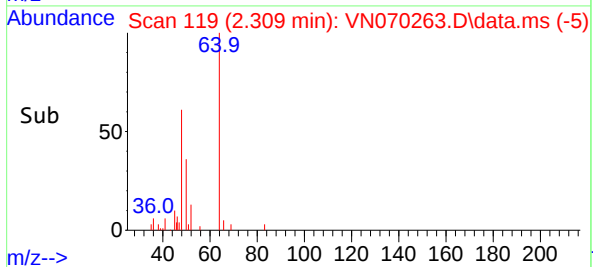
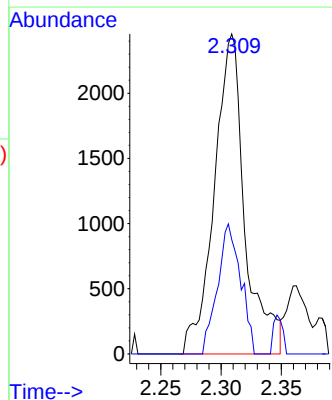
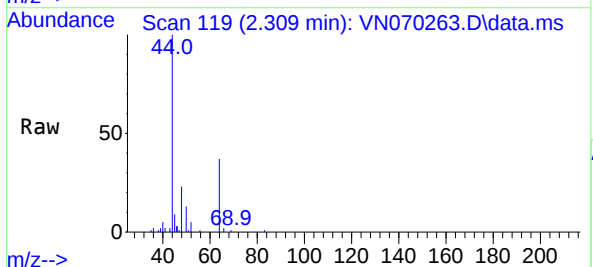


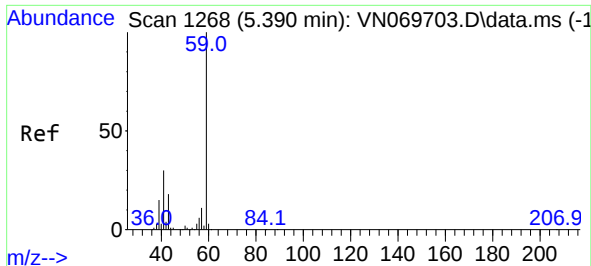
Tgt Ion:168 Resp: 802583
Ion Ratio Lower Upper
168 100
99 61.2 41.3 61.9



#3
Chloromethane
Concen: 0.369 ug/l
RT: 2.309 min Scan# 119
Delta R.T. 0.006 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

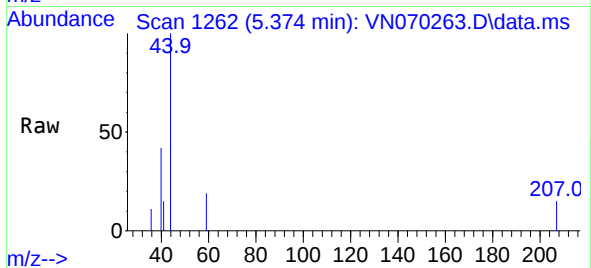
Tgt Ion: 50 Resp: 4329
Ion Ratio Lower Upper
50 100
52 35.7 25.4 38.0



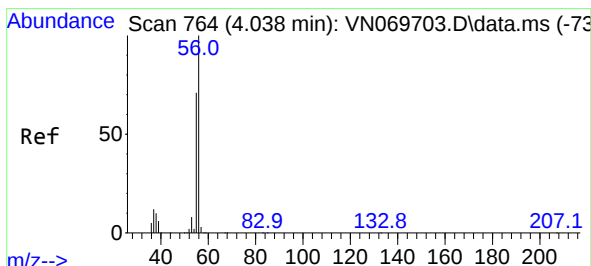
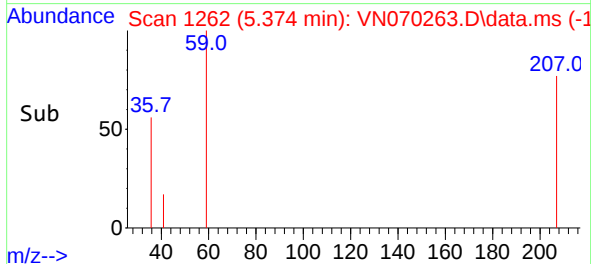
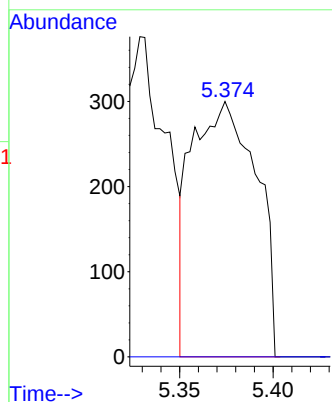


#11
Tert butyl alcohol
Concen: 0.307 ug/l
RT: 5.374 min Scan# 11
Delta R.T. -0.016 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Instrument :
MSVOA_N
ClientSampleId :

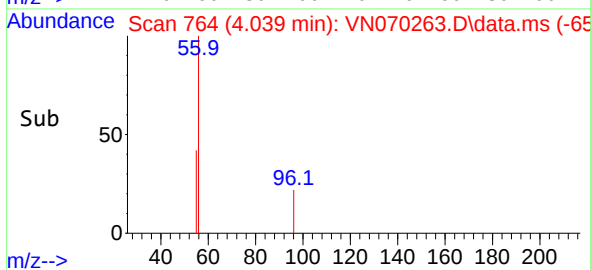
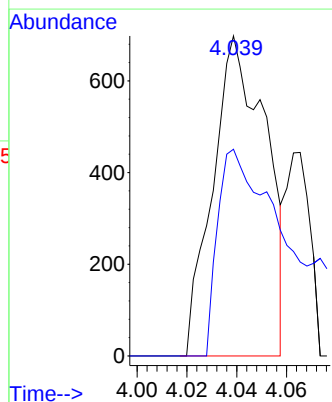
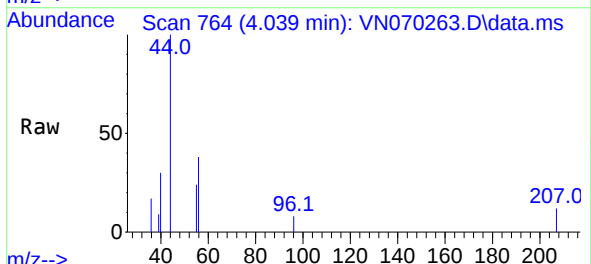


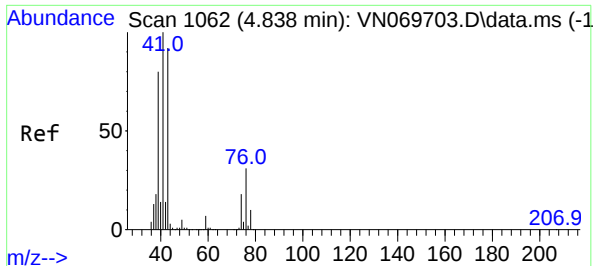
Tgt Ion: 59 Resp: 718
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#13
Acrolein
Concen: 0.517 ug/l
RT: 4.039 min Scan# 764
Delta R.T. 0.000 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

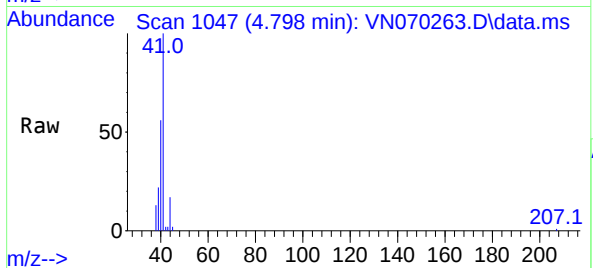
Tgt Ion: 56 Resp: 1032
Ion Ratio Lower Upper
56 100
55 74.4 56.6 85.0



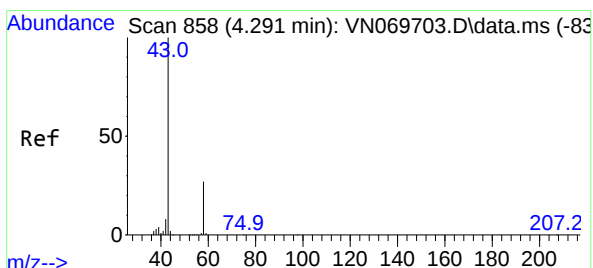
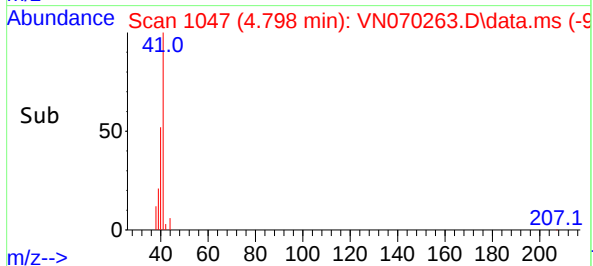
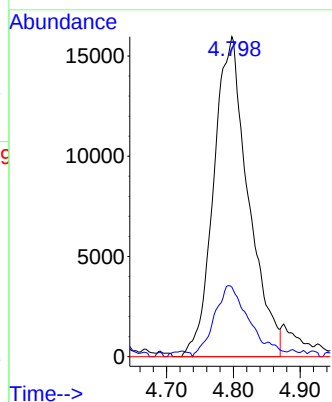


#14
 Allyl chloride
 Concen: 3.338 ug/l
 RT: 4.798 min Scan# 1047
 Delta R.T. -0.040 min
 Lab File: VN070263.D
 Acq: 21 Dec 2021 13:20

Instrument :
 MSVOA_N
 ClientSampleId :

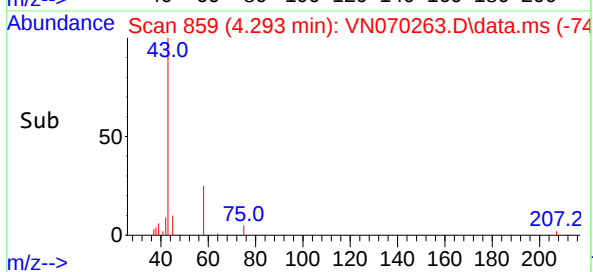
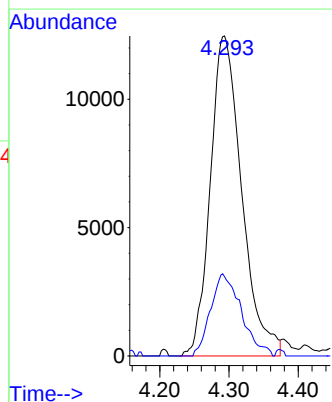
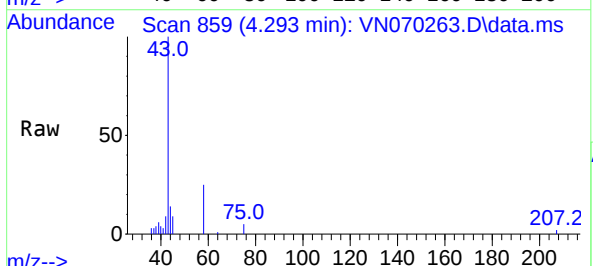


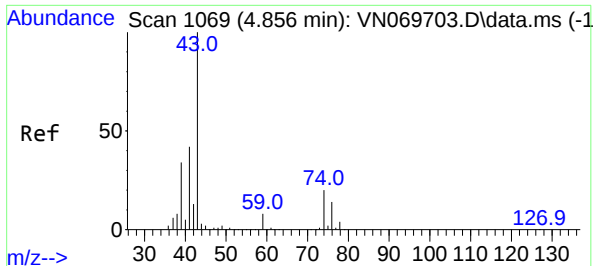
Tgt Ion: 41 Resp: 57509
 Ion Ratio Lower Upper
 41 100
 39 20.9 61.2 91.8#
 76 0.0 26.0 39.0#



#16
 Acetone
 Concen: 5.274 ug/l
 RT: 4.293 min Scan# 859
 Delta R.T. 0.003 min
 Lab File: VN070263.D
 Acq: 21 Dec 2021 13:20

Tgt Ion: 43 Resp: 39316
 Ion Ratio Lower Upper
 43 100
 58 24.8 23.1 34.7





#18

Methyl Acetate

Concen: 1.752 ug/l

RT: 4.865 min Scan# 1107

Delta R.T. 0.008 min

Lab File: VN070263.D

Acq: 21 Dec 2021 13:20

Instrument :

MSVOA_N

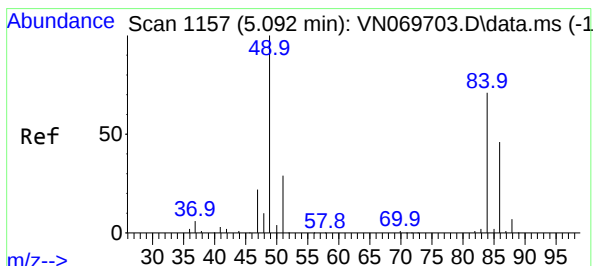
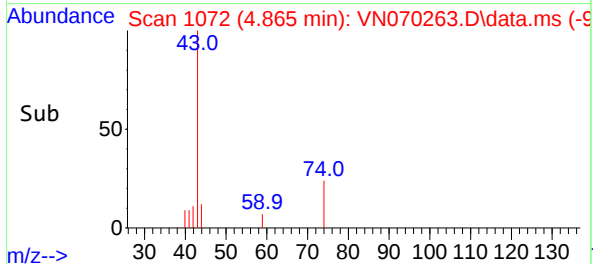
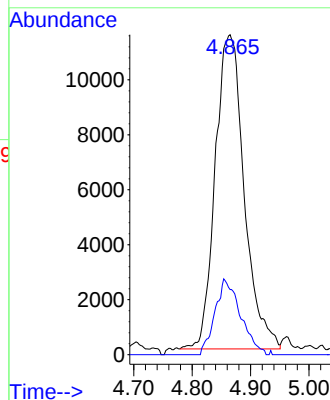
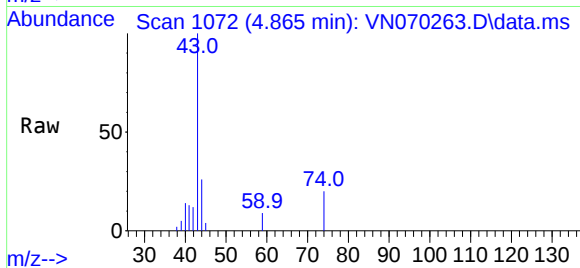
ClientSampleId :

Tgt Ion: 43 Resp: 39415

Ion Ratio Lower Upper

43 100

74 21.2 19.4 29.2



#20

Methylene Chloride

Concen: 0.594 ug/l

RT: 5.090 min Scan# 1156

Delta R.T. -0.002 min

Lab File: VN070263.D

Acq: 21 Dec 2021 13:20

Tgt Ion: 84 Resp: 5885

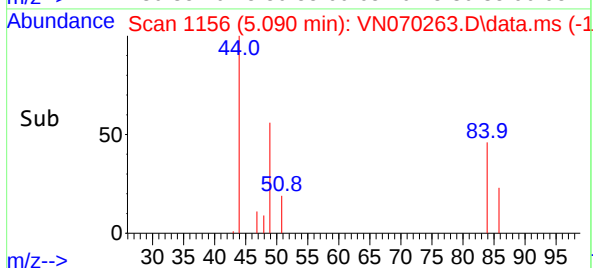
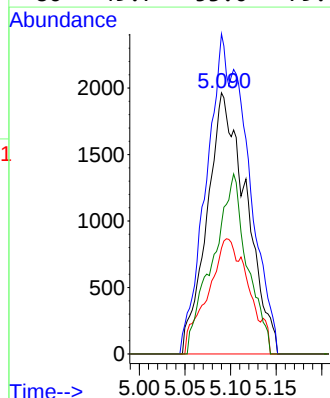
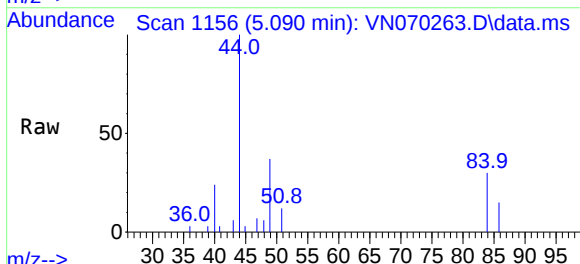
Ion Ratio Lower Upper

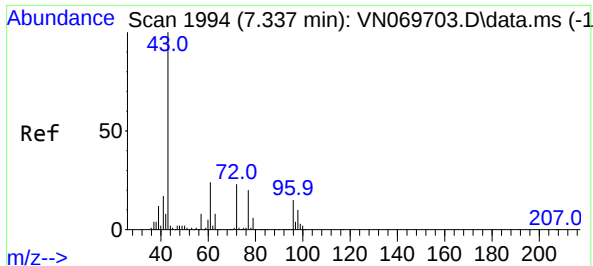
84 100

49 122.6 93.5 140.3

51 40.5 29.4 44.2

86 49.7 53.0 79.4#

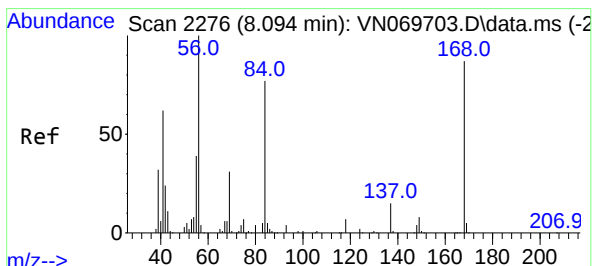
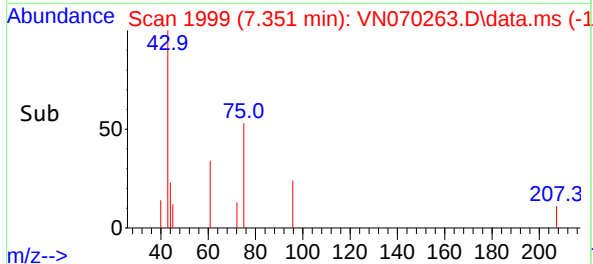
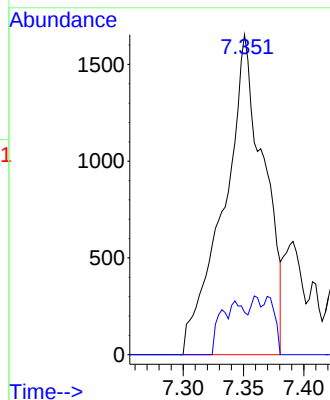
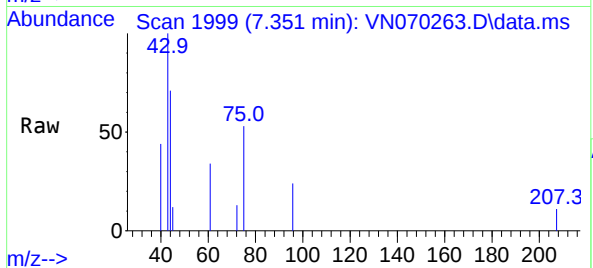




#25
2-Butanone
Concen: 0.377 ug/l
RT: 7.351 min Scan# 1999
Delta R.T. 0.014 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

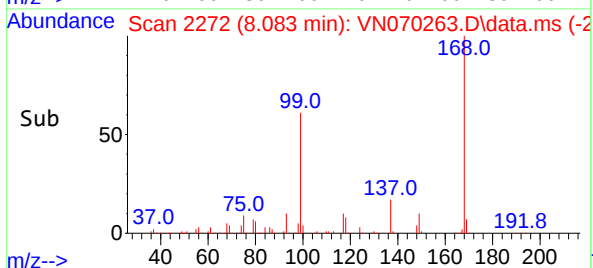
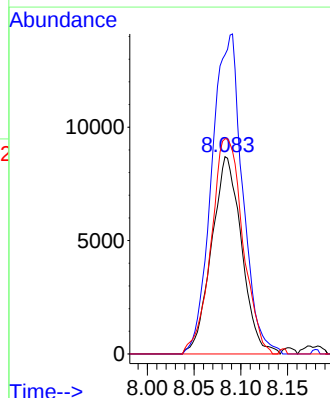
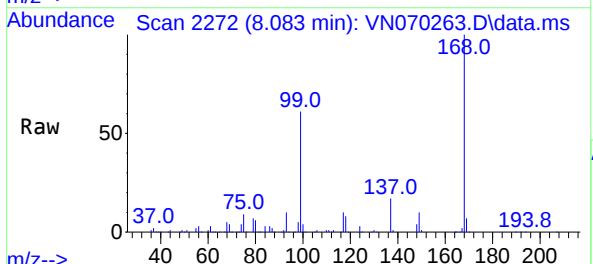
Instrument :
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ClientSampleId :

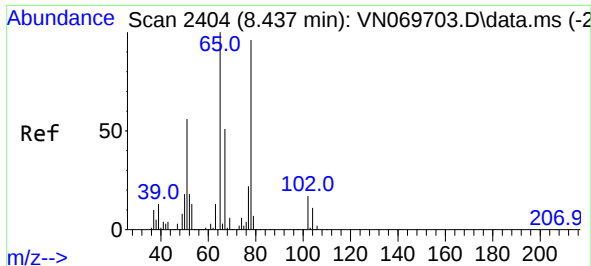
Tgt Ion: 43 Resp: 3819
Ion Ratio Lower Upper
43 100
72 13.2 21.7 32.5#



#31
Cyclohexane
Concen: 1.128 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.011 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Tgt Ion: 56 Resp: 19460
Ion Ratio Lower Upper
56 100
69 151.6 27.1 40.7#
84 109.1 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 54.698 ug/l

RT: 8.437 min Scan# 24

Delta R.T. 0.000 min

Lab File: VN070263.D

Acq: 21 Dec 2021 13:20

Instrument :

MSVOA_N

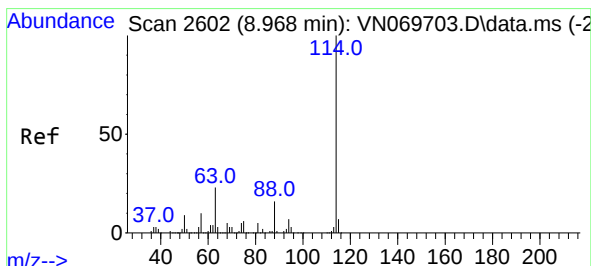
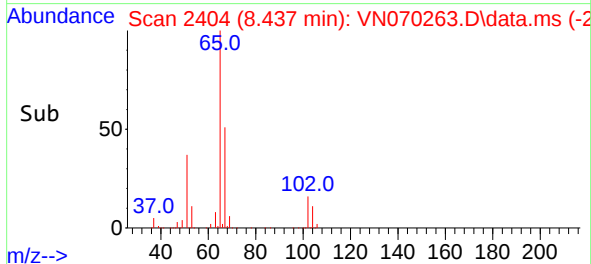
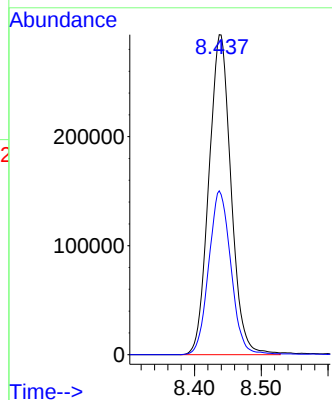
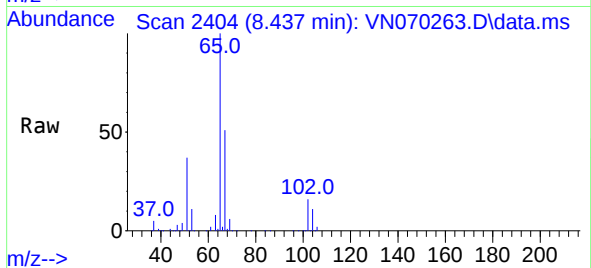
ClientSampleId :

Tgt Ion: 65 Resp: 677813

Ion Ratio Lower Upper

65 100

67 51.3 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: VN070263.D

Acq: 21 Dec 2021 13:20

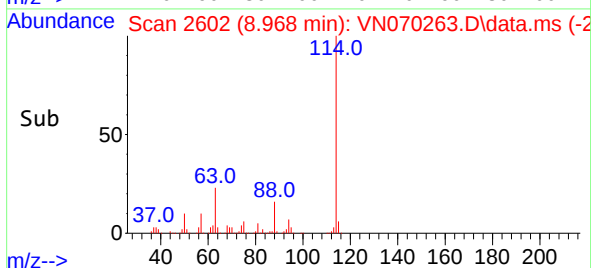
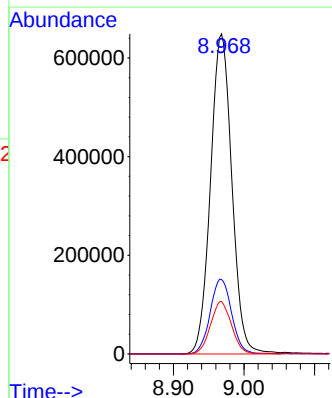
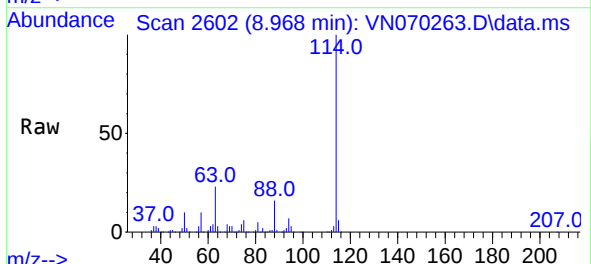
Tgt Ion:114 Resp: 1363157

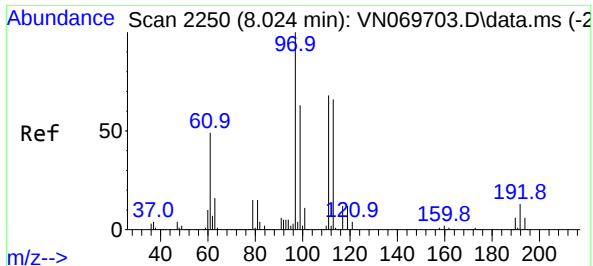
Ion Ratio Lower Upper

114 100

63 23.3 0.0 37.8

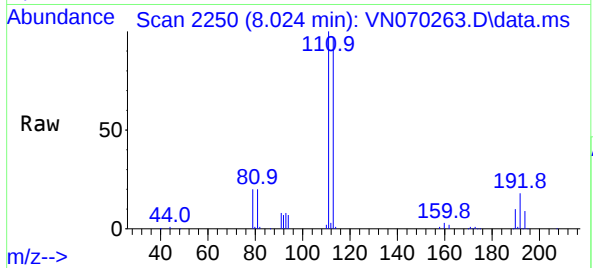
88 16.4 0.0 27.4



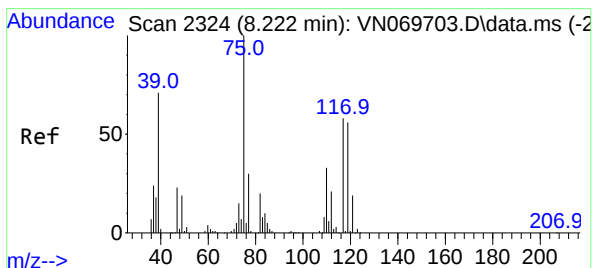
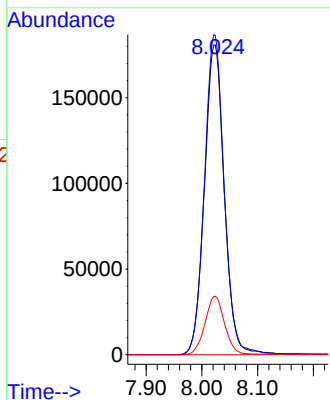
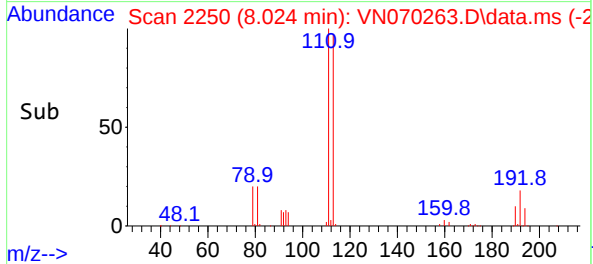


#35
Dibromofluoromethane
Concen: 52.460 ug/l
RT: 8.024 min Scan# 211
Delta R.T. 0.000 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Instrument :
MSVOA_N
ClientSampleId :

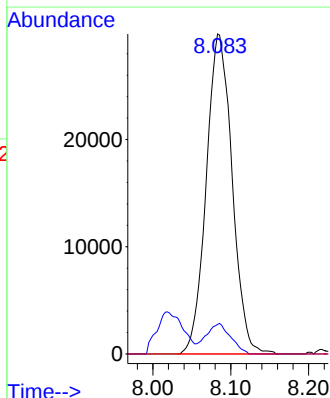
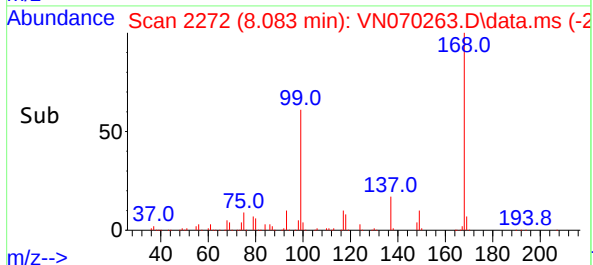
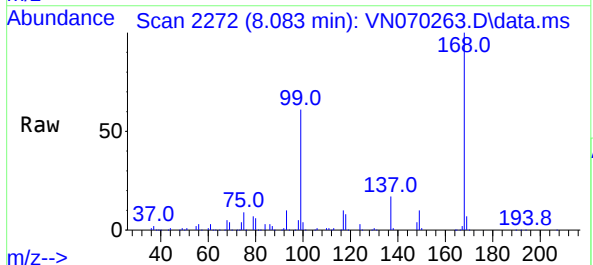


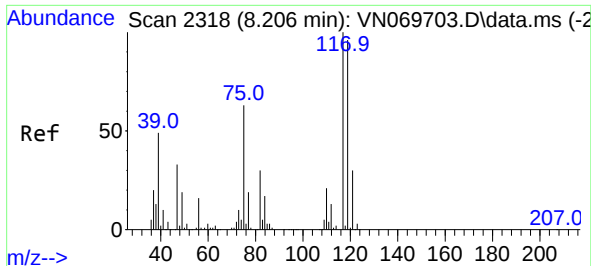
Tgt Ion:113 Resp: 447928
Ion Ratio Lower Upper
113 100
111 102.3 82.2 123.2
192 18.6 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.305 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.139 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

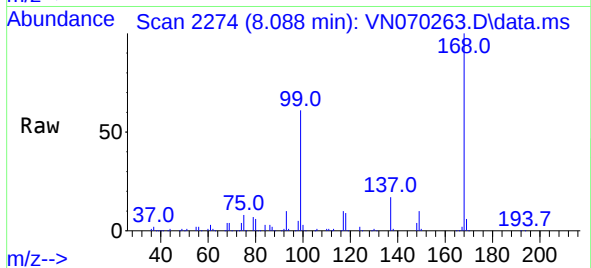
Tgt Ion: 75 Resp: 68836
Ion Ratio Lower Upper
75 100
110 9.0 18.4 55.2#
77 0.0 24.4 36.6#



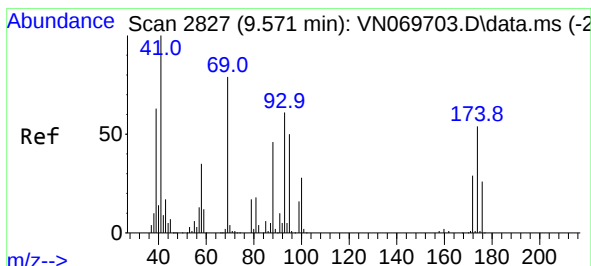
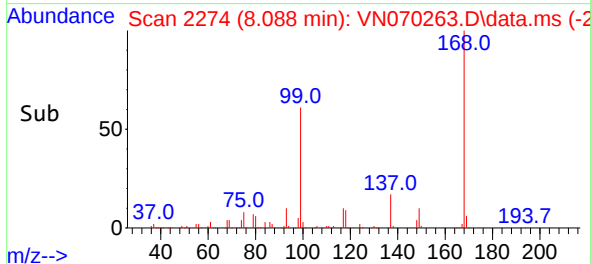
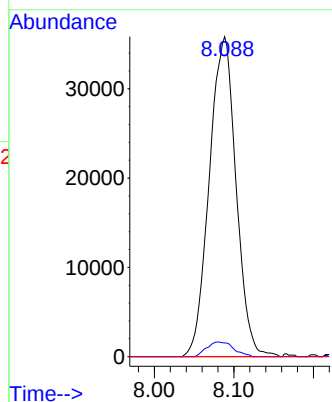


#38
Carbon Tetrachloride
Concen: 6.588 ug/l
RT: 8.088 min Scan# 211
Delta R.T. -0.118 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Instrument :
MSVOA_N
ClientSampleId :

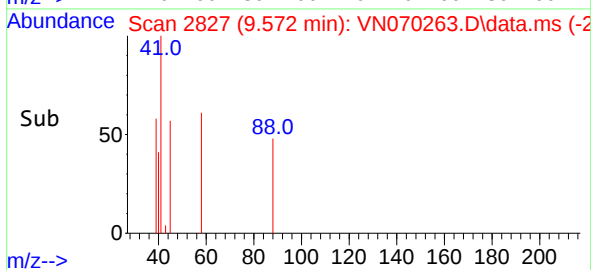
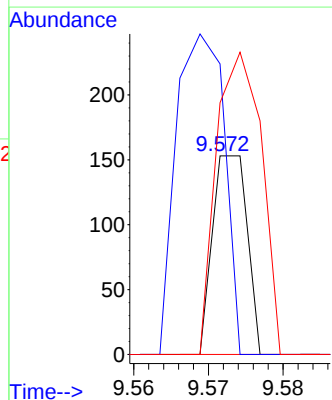
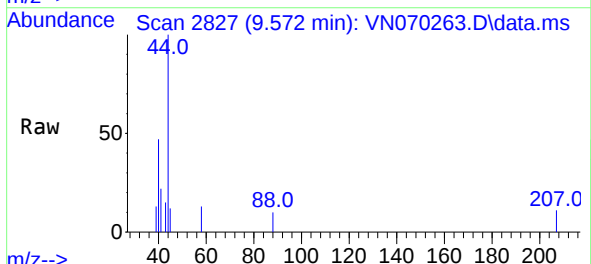


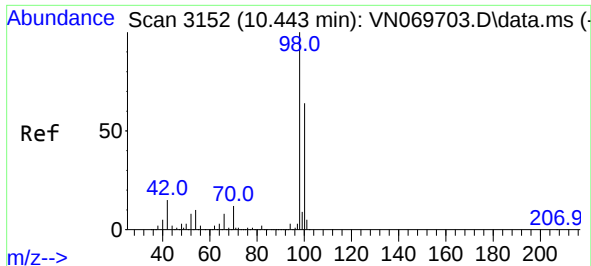
Tgt Ion:117 Resp: 83838
Ion Ratio Lower Upper
117 100
119 4.3 76.1 114.1#
121 0.0 24.2 36.2#



#49
1,4-Dioxane
Concen: 0.205 ug/l
RT: 9.572 min Scan# 2827
Delta R.T. 0.000 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

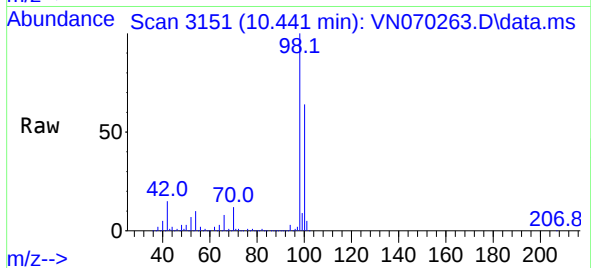
Tgt Ion: 88 Resp: 49
Ion Ratio Lower Upper
88 100
43 224.5 23.4 35.2#
58 200.0 50.6 75.8#



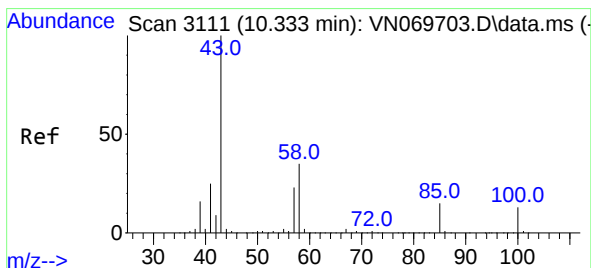
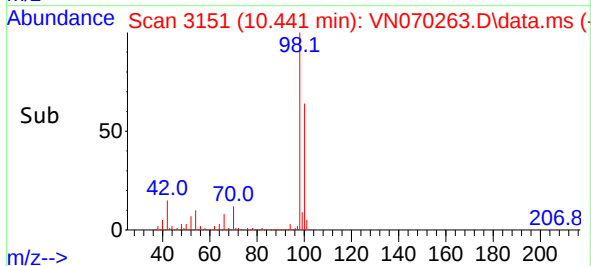
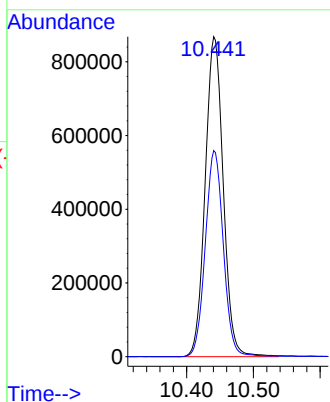


#50
Toluene-d8
Concen: 47.640 ug/l
RT: 10.441 min Scan# 3152
Delta R.T. -0.002 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Instrument :
MSVOA_N
ClientSampleId :

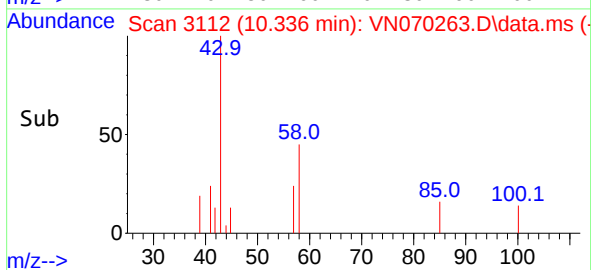
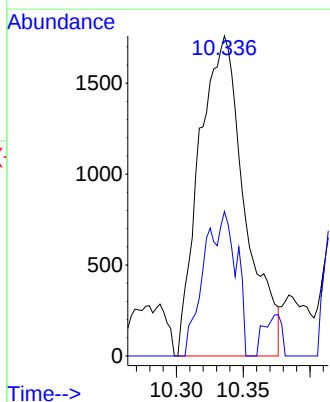
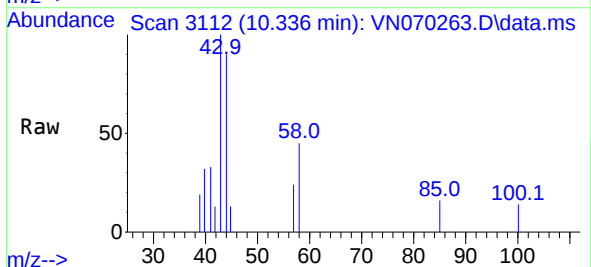


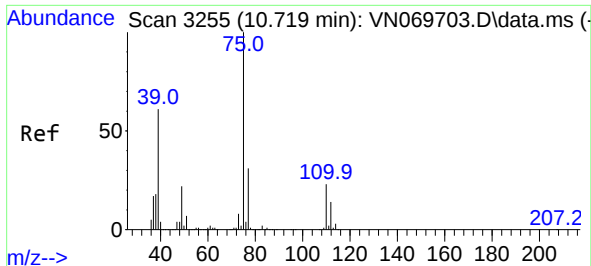
Tgt Ion: 98 Resp: 1633344
Ion Ratio Lower Upper
98 100
100 64.3 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.224 ug/l
RT: 10.336 min Scan# 3112
Delta R.T. 0.003 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Tgt Ion: 43 Resp: 4158
Ion Ratio Lower Upper
43 100
58 16.6 30.4 45.6#

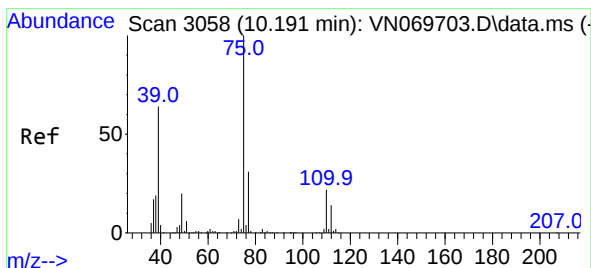
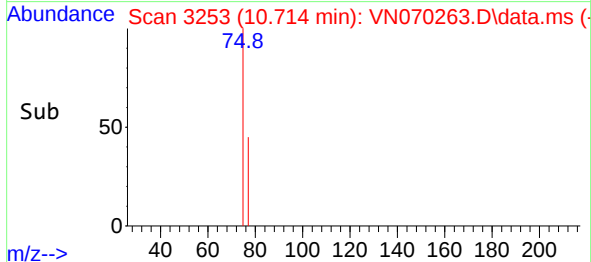
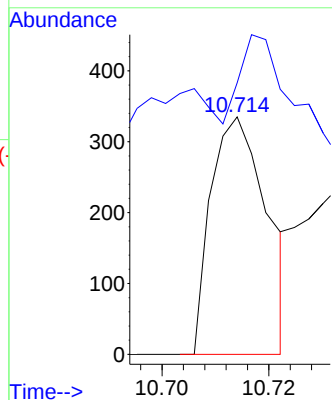
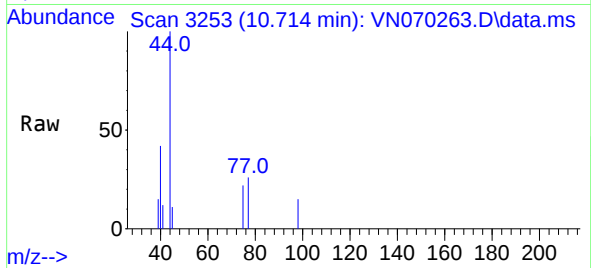




#53
t-1,3-Dichloropropene
Concen: 2.809 ug/l
RT: 10.714 min Scan# 31
Delta R.T. -0.005 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

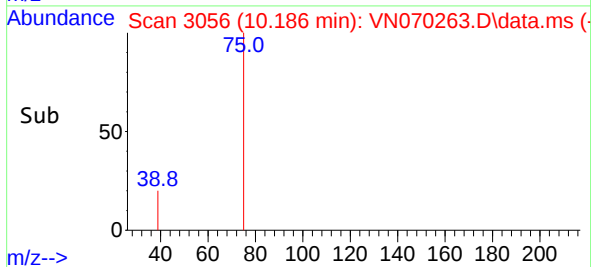
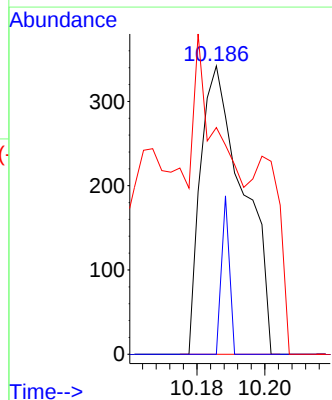
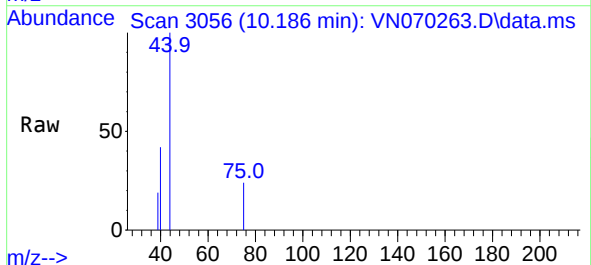
Instrument :
MSVOA_N
ClientSampleId :

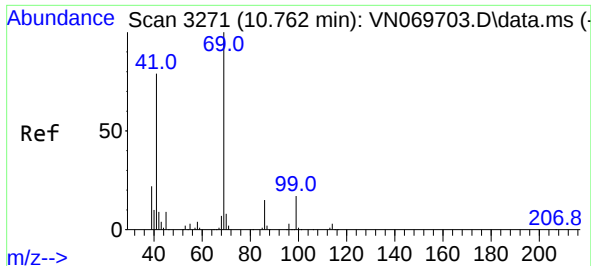
Tgt Ion: 75 Resp: 244
Ion Ratio Lower Upper
75 100
77 4.5 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 2.016 ug/l
RT: 10.186 min Scan# 3056
Delta R.T. -0.005 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

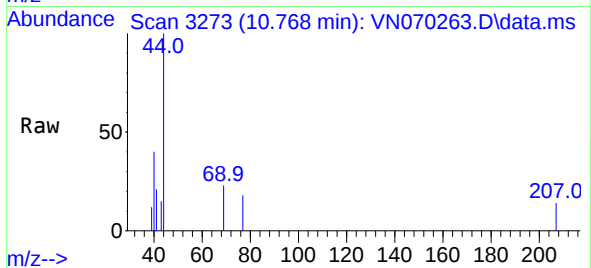
Tgt Ion: 75 Resp: 300
Ion Ratio Lower Upper
75 100
77 0.0 26.4 39.6#
39 26.9 42.5 63.7#



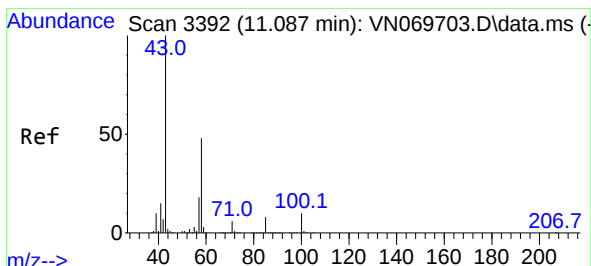
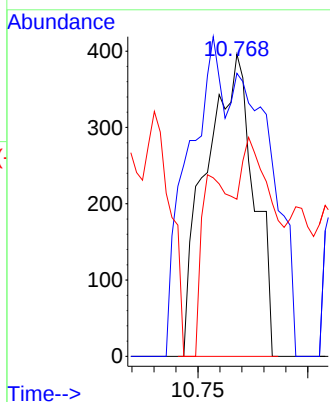
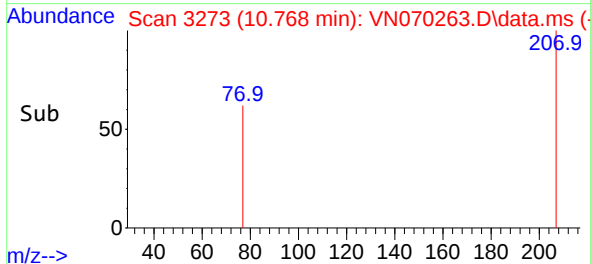


#56
Ethyl methacrylate
Concen: 2.310 ug/l
RT: 10.768 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Instrument :
MSVOA_N
ClientSampleId :

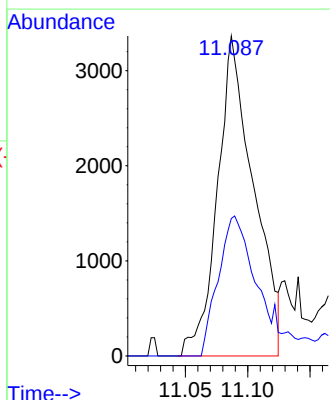
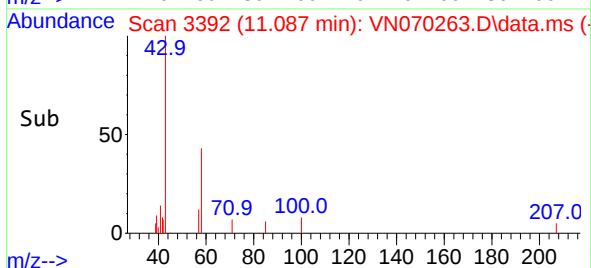
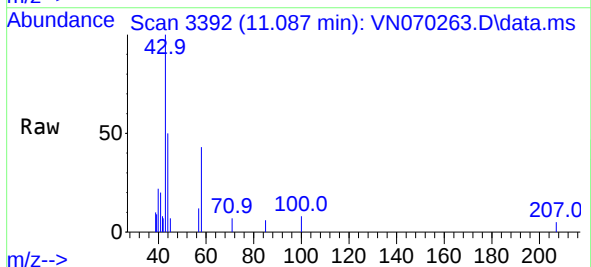


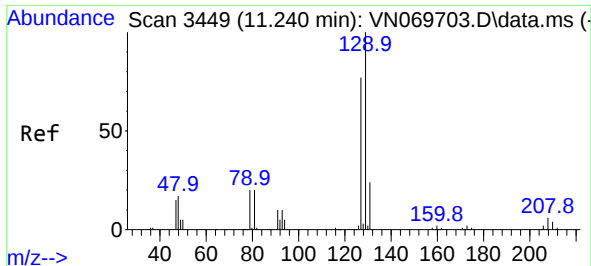
Tgt Ion: 69 Resp: 600
Ion Ratio Lower Upper
69 100
41 0.0 51.4 77.0#
39 14.7 34.6 52.0#



#59
2-Hexanone
Concen: 0.483 ug/l
RT: 11.087 min Scan# 3392
Delta R.T. -0.000 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Tgt Ion: 43 Resp: 6781
Ion Ratio Lower Upper
43 100
58 46.0 26.9 80.7

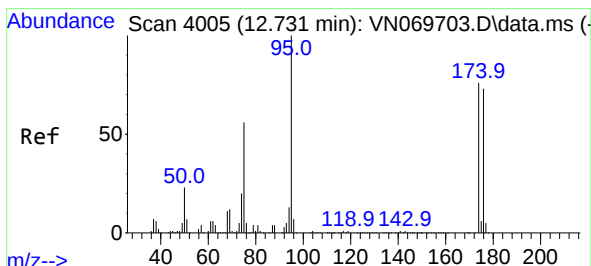
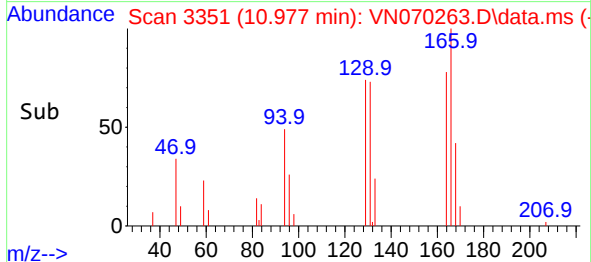
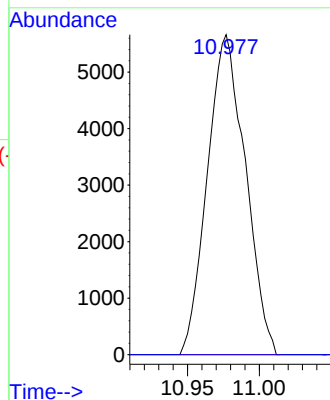
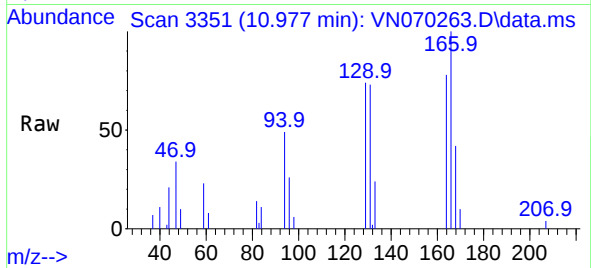




#60
Dibromochloromethane
Concen: 3.325 ug/l
RT: 10.977 min Scan# 31
Delta R.T. -0.263 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

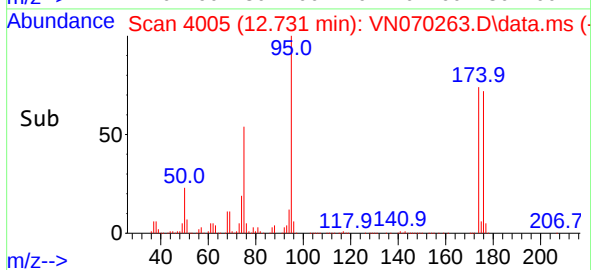
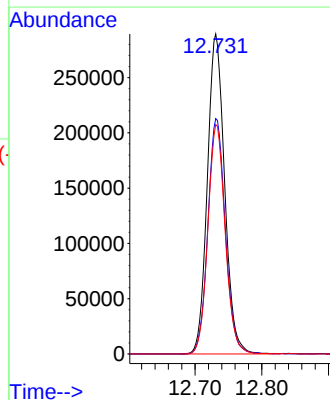
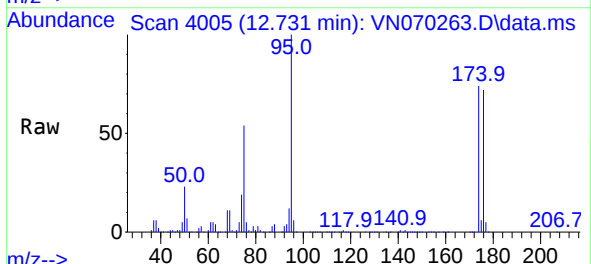
Instrument :
MSVOA_N
ClientSampleId :

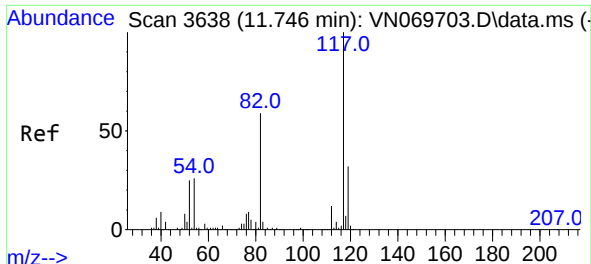
Tgt Ion:129 Resp: 10426
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 41.881 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

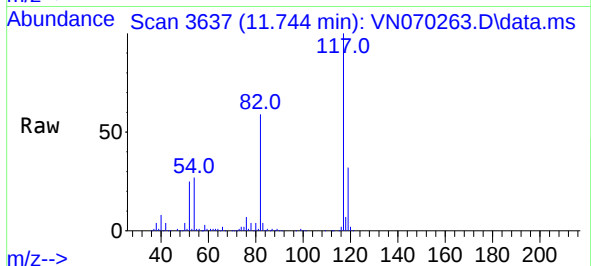
Tgt Ion: 95 Resp: 520195
Ion Ratio Lower Upper
95 100
174 74.3 0.0 187.2
176 71.8 0.0 181.4



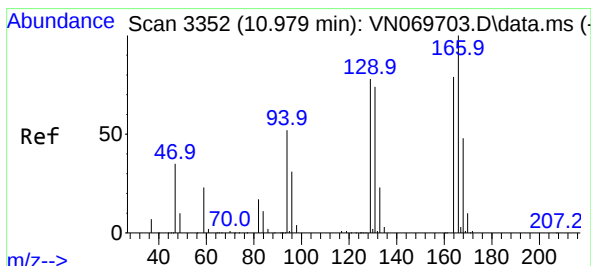
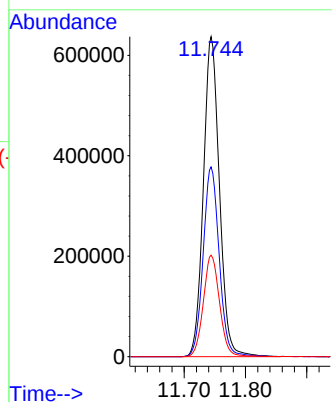
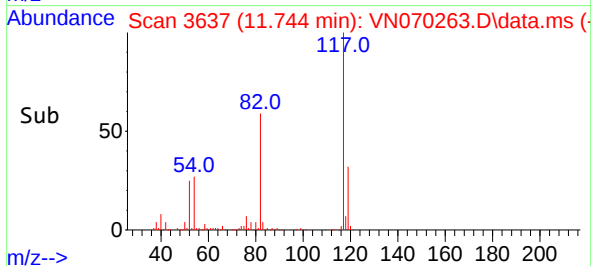


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 30
Delta R.T. -0.002 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

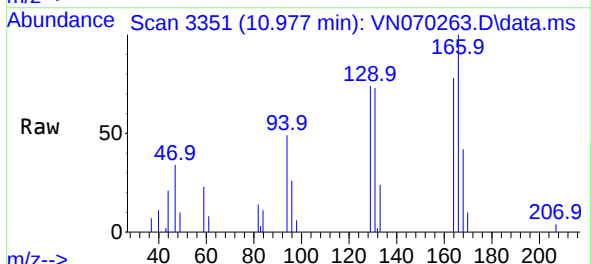
Instrument :
MSVOA_N
ClientSampleId :



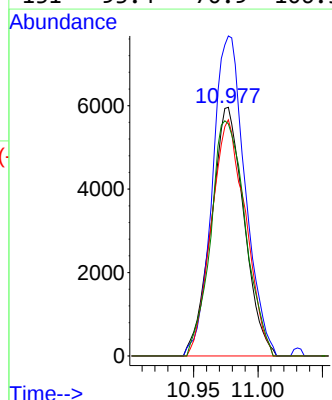
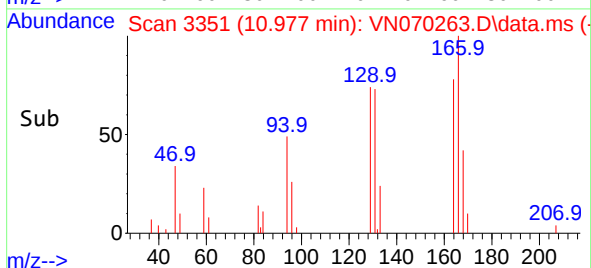
Tgt Ion:117 Resp: 1159174
Ion Ratio Lower Upper
117 100
82 59.3 42.4 63.6
119 31.7 25.4 38.2

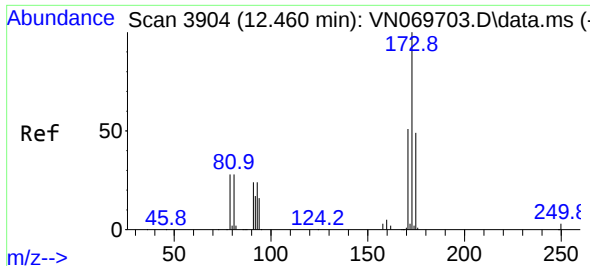


#64
Tetrachloroethene
Concen: 1.350 ug/l
RT: 10.977 min Scan# 3351
Delta R.T. -0.002 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20



Tgt Ion:164 Resp: 10608
Ion Ratio Lower Upper
164 100
166 128.7 101.9 152.9
129 95.0 72.0 108.0
131 93.4 70.9 106.3

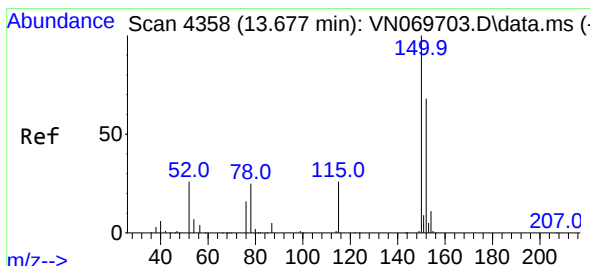
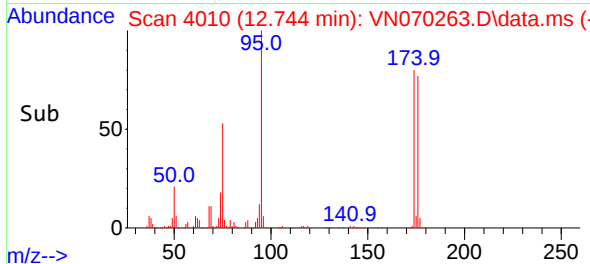
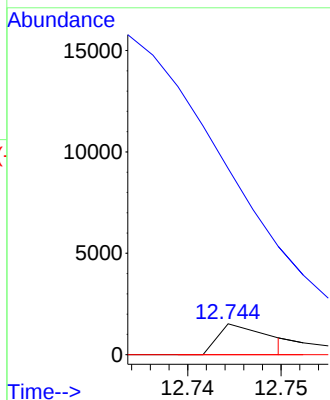
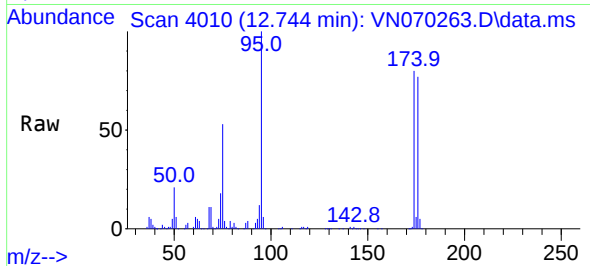




#71
Bromoform
Concen: 2.807 ug/l
RT: 12.744 min Scan# 4010
Delta R.T. 0.284 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

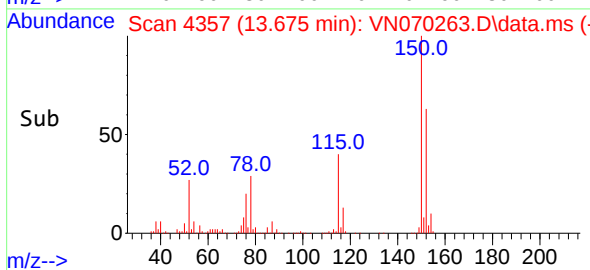
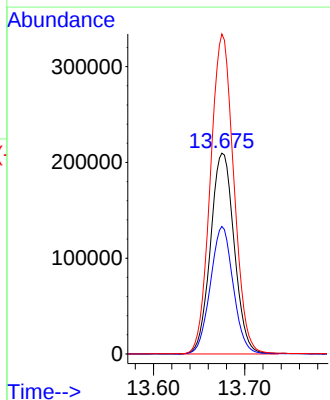
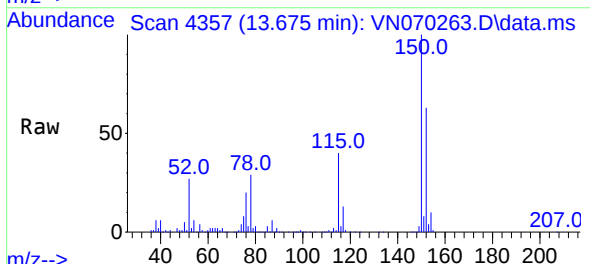
Instrument :
MSVOA_N
ClientSampleId :

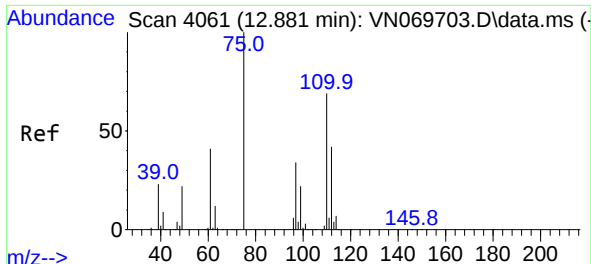
Tgt Ion:173 Resp: 568
Ion Ratio Lower Upper
173 100
175 4807.2 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 4357
Delta R.T. -0.002 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Tgt Ion:152 Resp: 378822
Ion Ratio Lower Upper
152 100
115 61.3 27.5 82.5
150 156.7 0.0 344.4

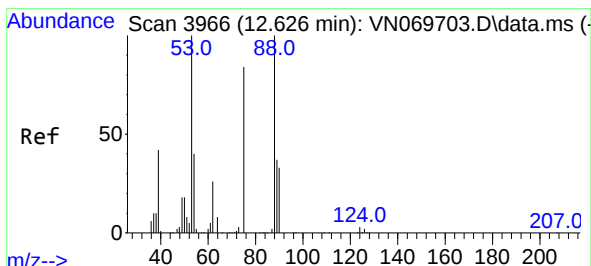
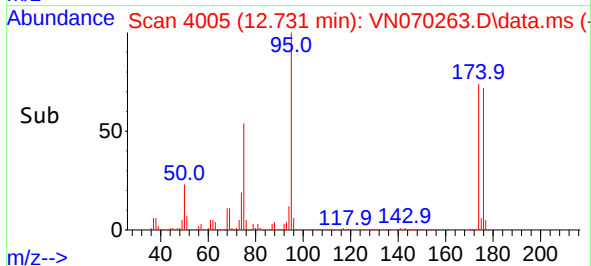
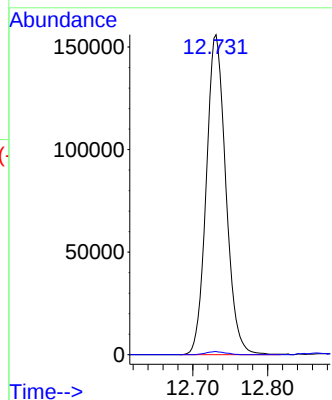
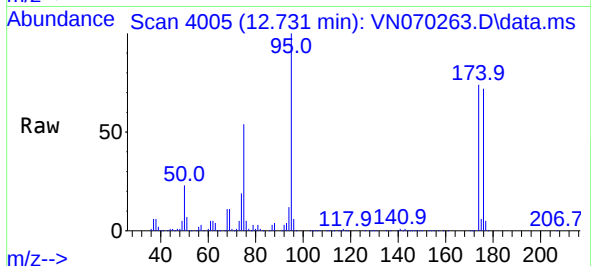




#76
1,2,3-Trichloropropane
Concen: 26.055 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

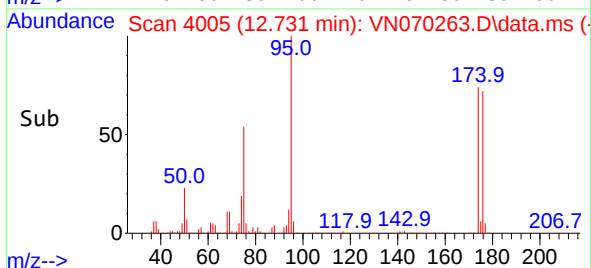
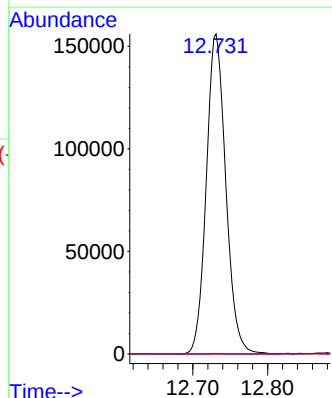
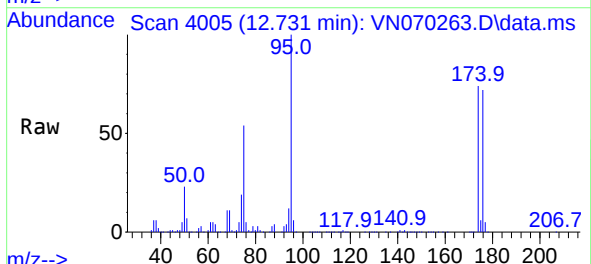
Instrument :
MSVOA_N
ClientSampleId :

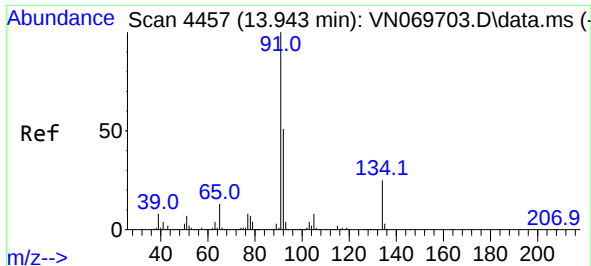
Tgt Ion: 75 Resp: 283052
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 82.409 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

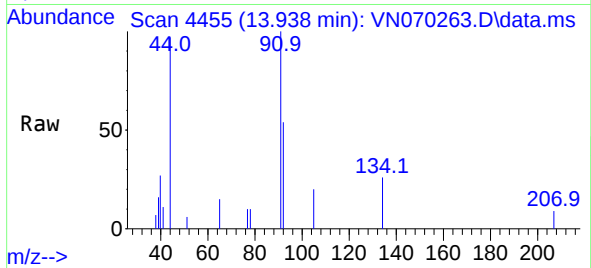
Tgt Ion: 75 Resp: 283052
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



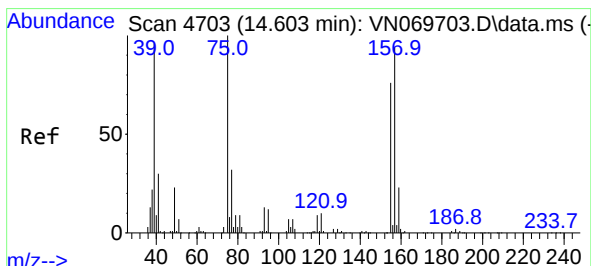
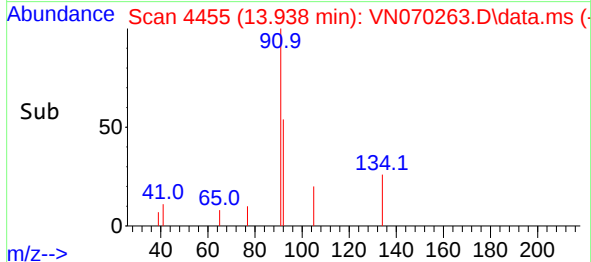
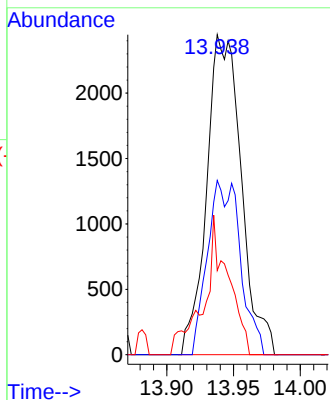


#89
n-Butylbenzene
Concen: 0.214 ug/l
RT: 13.938 min Scan# 4457
Delta R.T. -0.005 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Instrument :
MSVOA_N
ClientSampleId :

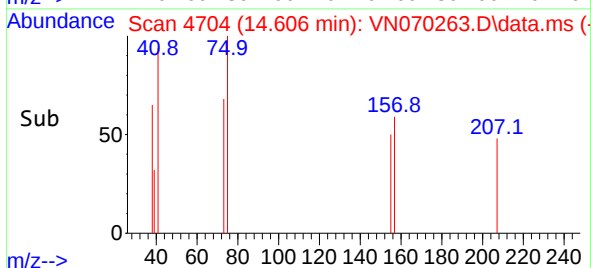
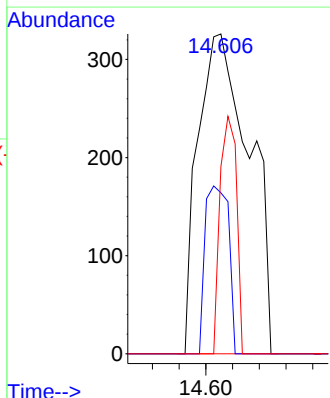
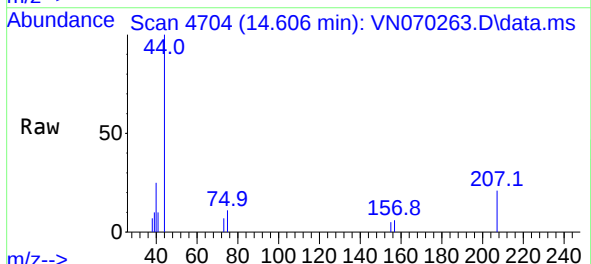


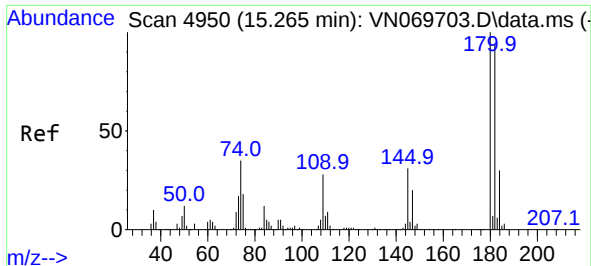
Tgt Ion: 91 Resp: 4412
Ion Ratio Lower Upper
91 100
92 27.9 25.4 76.0
134 30.9 13.6 40.8



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.207 ug/l
RT: 14.606 min Scan# 4704
Delta R.T. 0.003 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

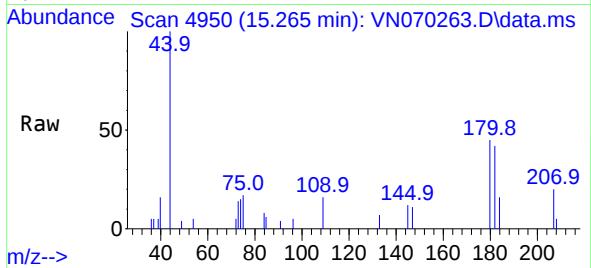
Tgt Ion: 75 Resp: 436
Ion Ratio Lower Upper
75 100
155 23.9 46.9 140.7#
157 23.9 60.6 181.7#



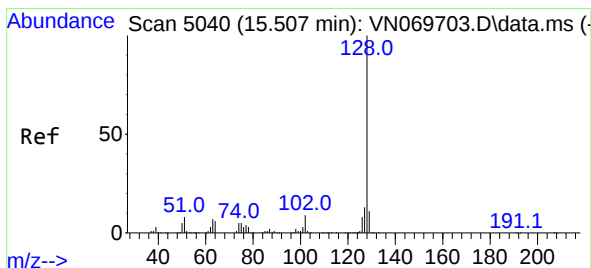
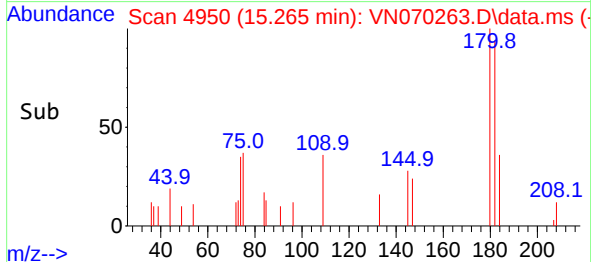
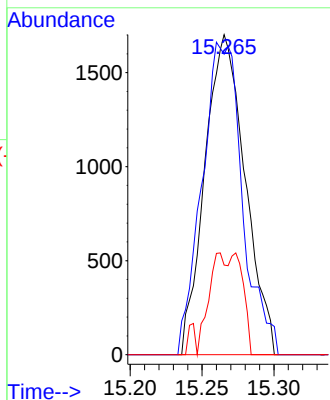


#93
1,2,4-Trichlorobenzene
Concen: 3.380 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Instrument :
MSVOA_N
ClientSampleId :

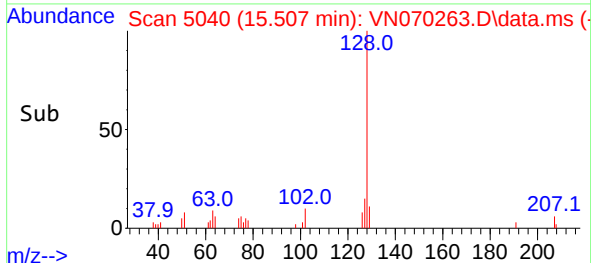
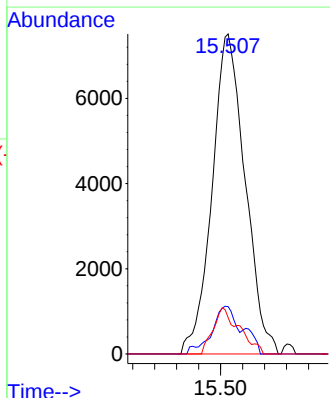
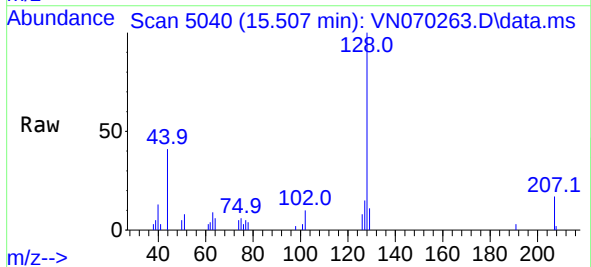


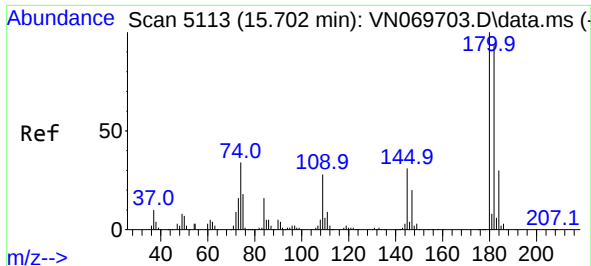
Tgt Ion:180 Resp: 3313
Ion Ratio Lower Upper
180 100
182 98.1 48.3 144.9
145 15.2 14.5 43.5



#95
Naphthalene
Concen: 4.763 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN070263.D
Acq: 21 Dec 2021 13:20

Tgt Ion:128 Resp: 15652
Ion Ratio Lower Upper
128 100
127 10.8 10.5 15.7
129 11.4 8.7 13.1





#96

1,2,3-Trichlorobenzene

Concen: 3.112 ug/l

RT: 15.703 min Scan# 51

Delta R.T. 0.001 min

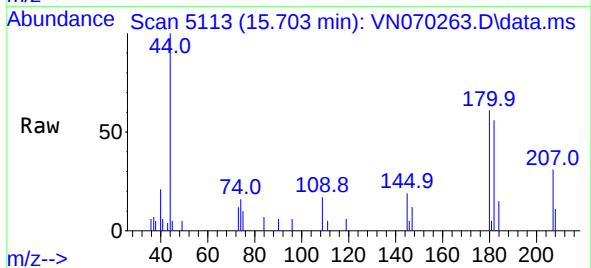
Lab File: VN070263.D

Acq: 21 Dec 2021 13:20

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:180 Resp: 4309

Ion Ratio Lower Upper

180 100

182 91.8 47.4 142.2

145 32.4 15.0 45.1

