

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121621\
 Data File : VN070155.D
 Acq On : 16 Dec 2021 23:56
 Operator : JC/MD
 Sample : VN1216WBL02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 17 01:06:56 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)

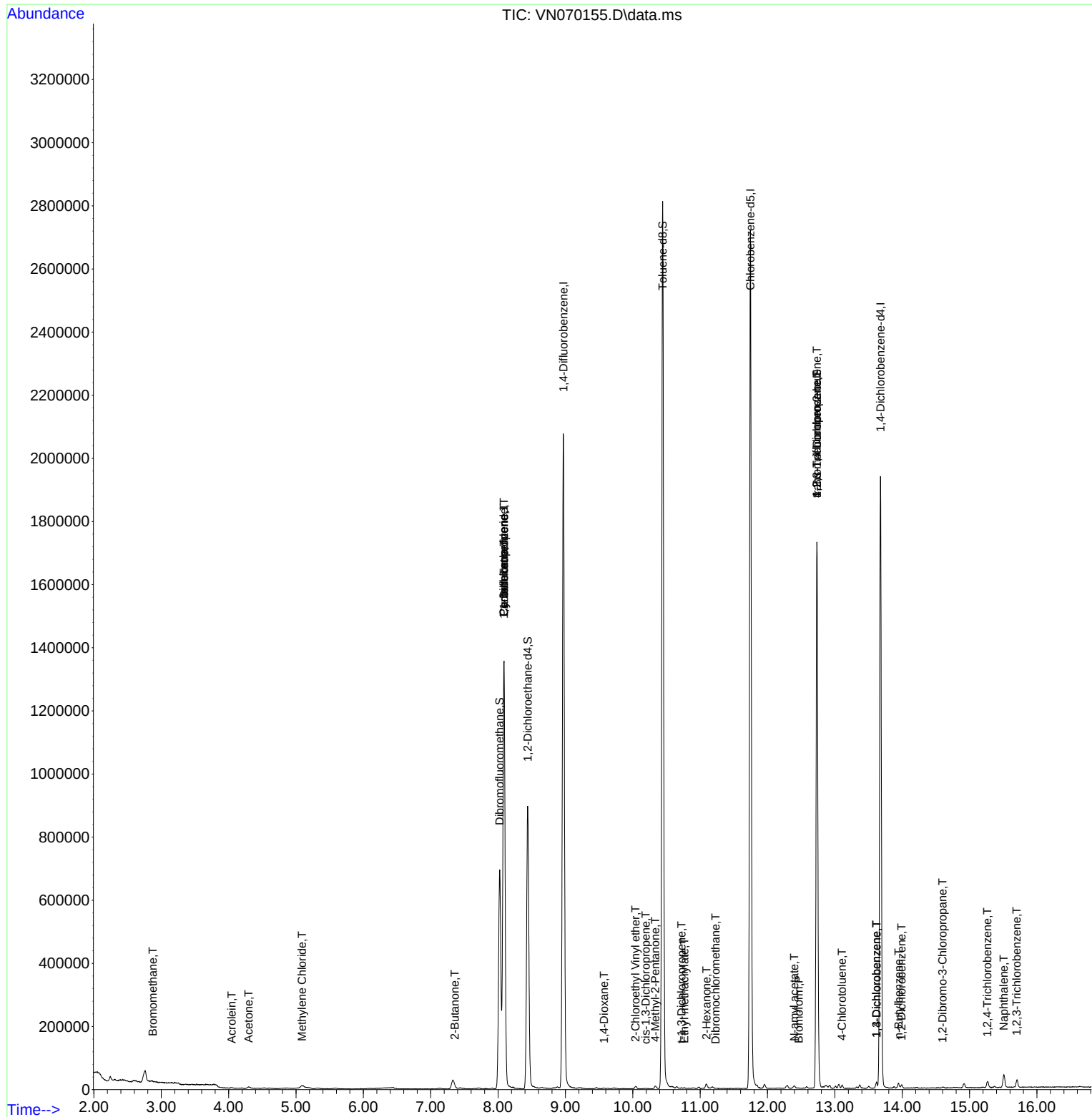
Internal Standards						
1) Pentafluorobenzene	8.088	168	1013859	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	1742367	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	1516246	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	513801	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	769304	49.144	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.280%		
35) Dibromofluoromethane	8.024	113	505521	46.319	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	92.640%		
50) Toluene-d8	10.443	98	1940754	44.287	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	88.580%		
62) 4-Bromofluorobenzene	12.733	95	614100	38.681	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	77.360%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.874	94	3041	0.411	ug/l #	78
13) Acrolein	4.044	56	2396	0.951	ug/l	92
16) Acetone	4.296	43	4708	0.500	ug/l	90
20) Methylene Chloride	5.090	84	3665	0.293	ug/l	96
25) 2-Butanone	7.356	43	5485	0.429	ug/l #	87
31) Cyclohexane	8.088	56	27439	1.260	ug/l #	41
36) 1,1-Dichloropropene	8.086	75	85213	5.137	ug/l #	49
38) Carbon Tetrachloride	8.088	117	103993	6.394	ug/l #	16
49) 1,4-Dioxane	9.574	88	159	0.520	ug/l #	1
51) 4-Methyl-2-Pentanone	10.333	43	7072	0.298	ug/l	92
53) t-1,3-Dichloropropene	10.725	75	1115	2.846	ug/l	98
54) cis-1,3-Dichloropropene	10.191	75	804	2.035	ug/l	94
56) Ethyl methacrylate	10.768	69	1032	2.321	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.041	63	3195	18.854	ug/l #	72
59) 2-Hexanone	11.095	43	13425	0.749	ug/l	81
60) Dibromochloromethane	11.231	129	159	2.388	ug/l #	28
71) Bromoform	12.465	173	192	2.750	ug/l #	29
74) N-amyl acetate	12.398	43	6147	0.304	ug/l #	82
76) 1,2,3-Trichloropropane	12.733	75	339493	23.040	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.733	75	339493	73.345	ug/l #	5
82) 4-Chlorotoluene	13.106	91	6856	0.227	ug/l	81
87) 1,3-Dichlorobenzene	13.618	146	4316	0.245	ug/l	89
88) 1,4-Dichlorobenzene	13.618	146	4316	0.249	ug/l	89
89) n-Butylbenzene	13.948	91	9343	0.333	ug/l	96
91) 1,2-Dichlorobenzene	13.991	146	4422	0.257	ug/l	94
92) 1,2-Dibromo-3-Chloropr...	14.600	75	834	0.292	ug/l #	44
93) 1,2,4-Trichlorobenzene	15.265	180	6881	3.647	ug/l #	92
95) Naphthalene	15.507	128	39178	5.421	ug/l	99
96) 1,2,3-Trichlorobenzene	15.700	180	8794	3.454	ug/l	96

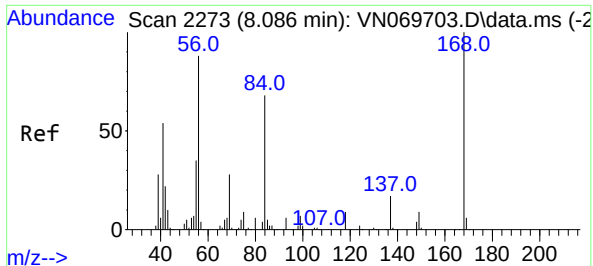
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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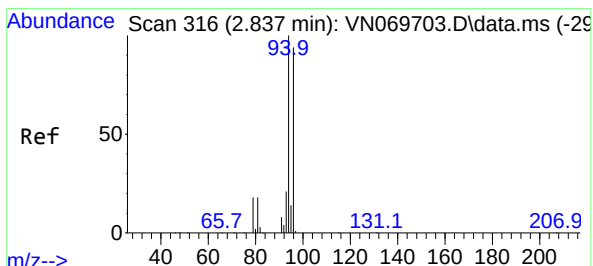
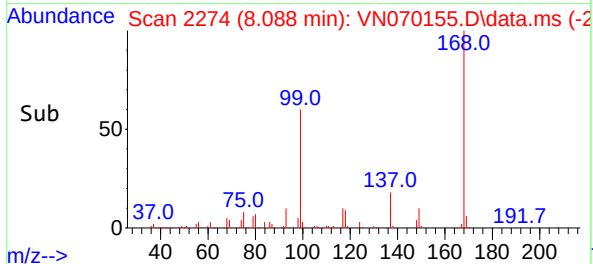
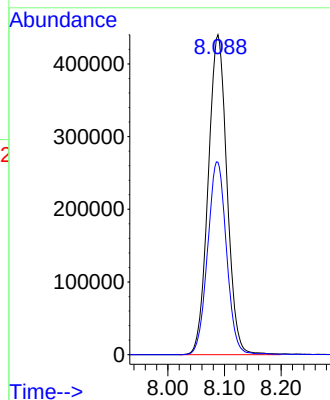
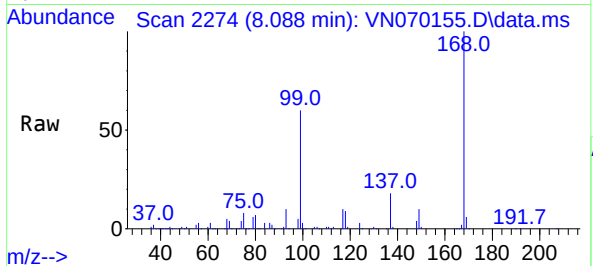




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

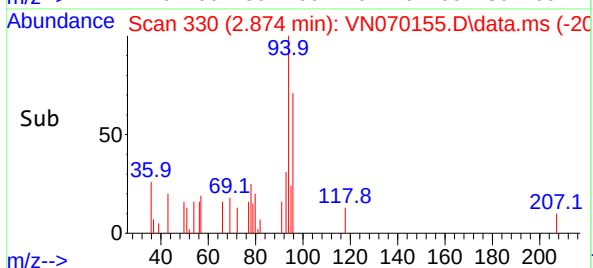
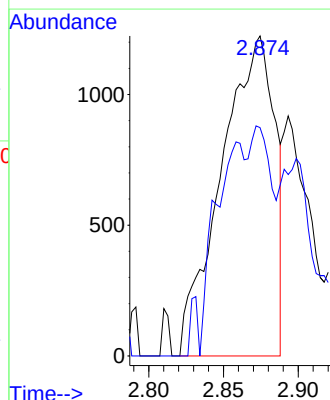
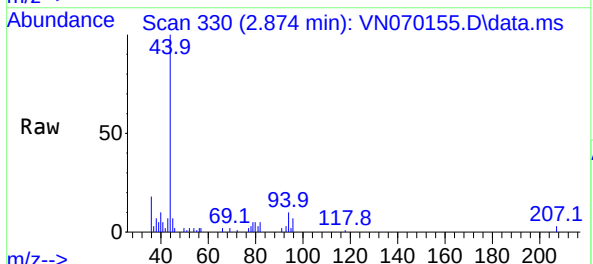
Instrument :
MSVOA_N
ClientSampleId :

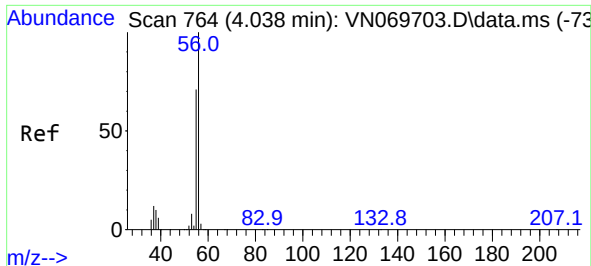
Tgt Ion:168 Resp: 1013859
Ion Ratio Lower Upper
168 100
99 60.2 41.3 61.9



#5
Bromomethane
Concen: 0.411 ug/l
RT: 2.874 min Scan# 330
Delta R.T. 0.038 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

Tgt Ion: 94 Resp: 3041
Ion Ratio Lower Upper
94 100
96 71.3 73.8 110.8#

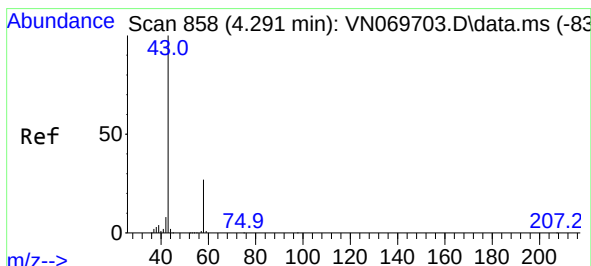
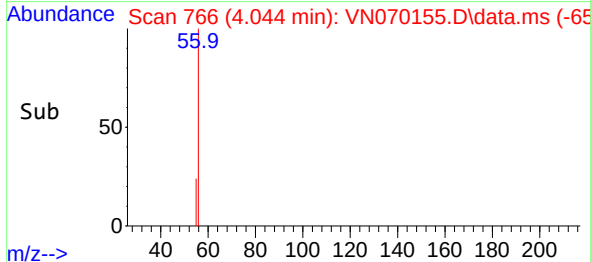
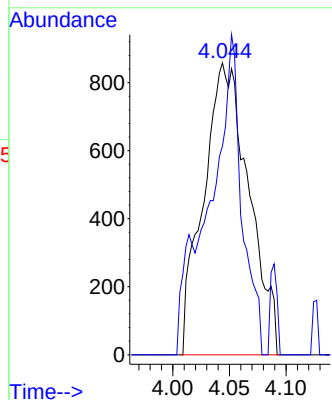
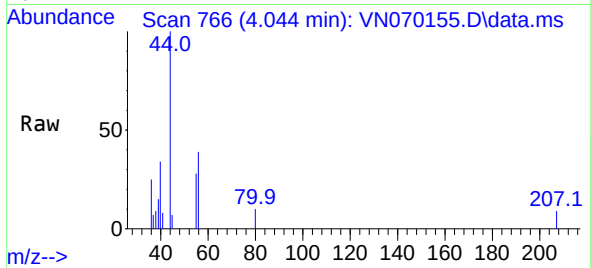




#13
Acrolein
Concen: 0.951 ug/l
RT: 4.044 min Scan# 764
Delta R.T. 0.005 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

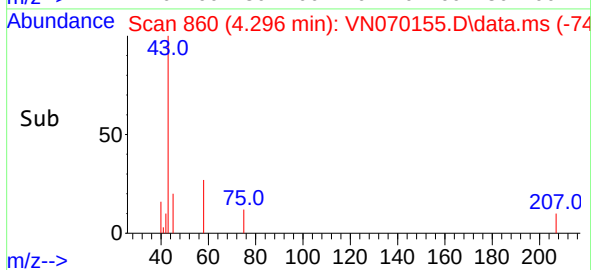
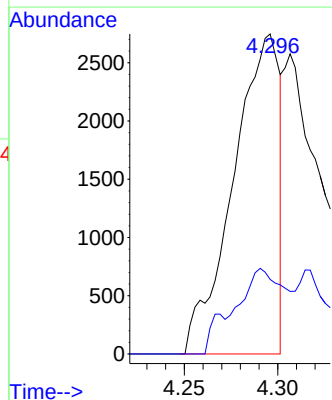
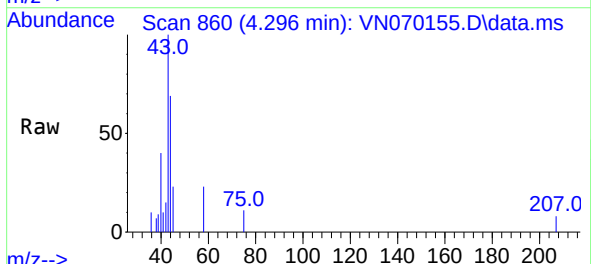
Instrument :
MSVOA_N
ClientSampleId :

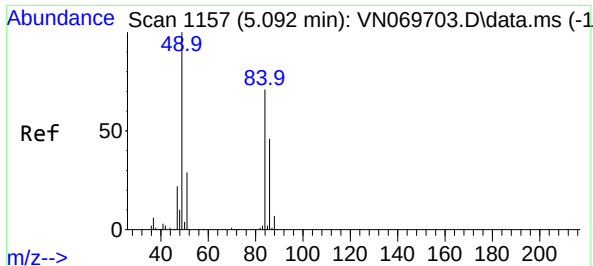
Tgt Ion: 56 Resp: 2396
Ion Ratio Lower Upper
56 100
55 64.5 56.6 85.0



#16
Acetone
Concen: 0.500 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.005 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

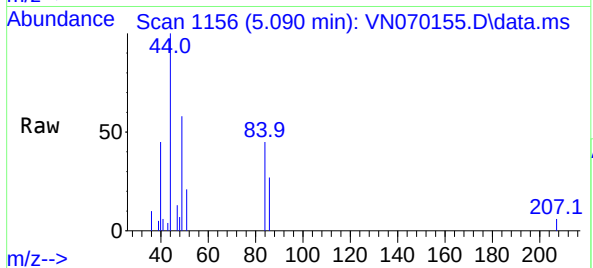
Tgt Ion: 43 Resp: 4708
Ion Ratio Lower Upper
43 100
58 23.3 23.1 34.7





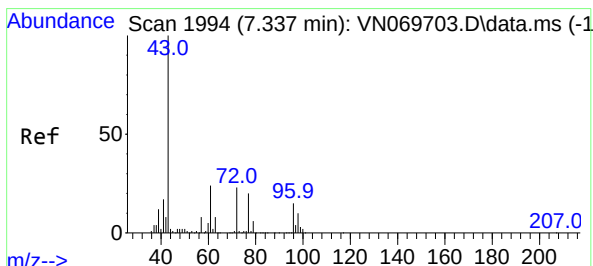
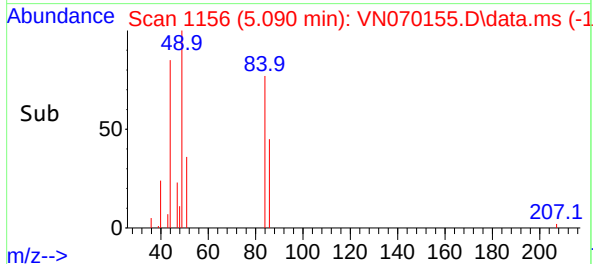
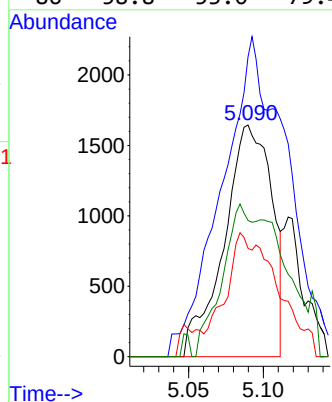
#20
Methylene Chloride
Concen: 0.293 ug/l
RT: 5.090 min Scan# 1157
Delta R.T. -0.003 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 3665

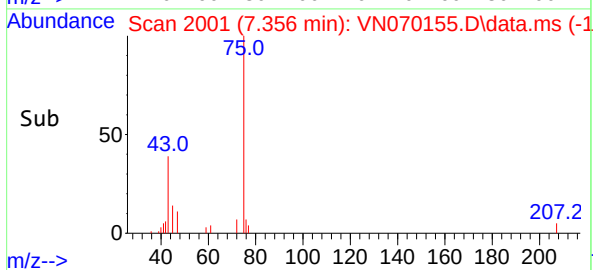
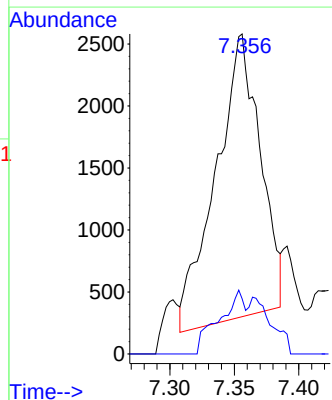
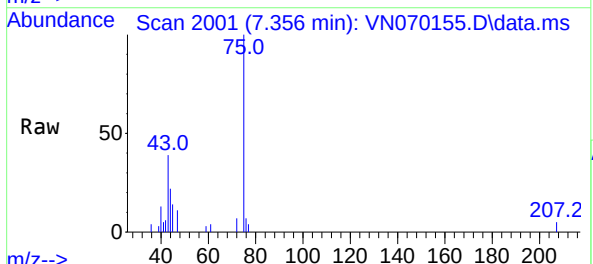
Ion	Ratio	Lower	Upper
84	100		
49	119.5	93.5	140.3
51	37.0	29.4	44.2
86	58.8	53.0	79.4

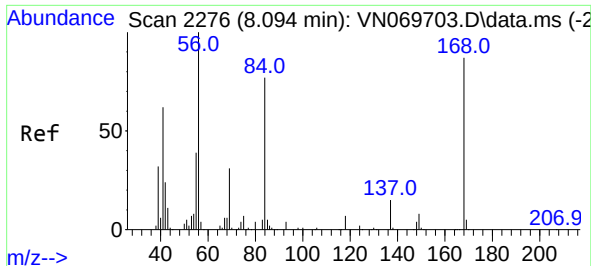


#25
2-Butanone
Concen: 0.429 ug/l
RT: 7.356 min Scan# 2001
Delta R.T. 0.019 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

Tgt Ion: 43 Resp: 5485

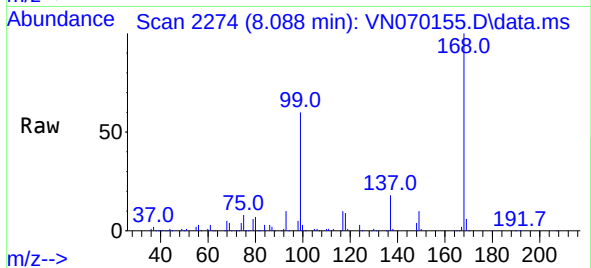
Ion	Ratio	Lower	Upper
43	100		
72	20.3	21.7	32.5#



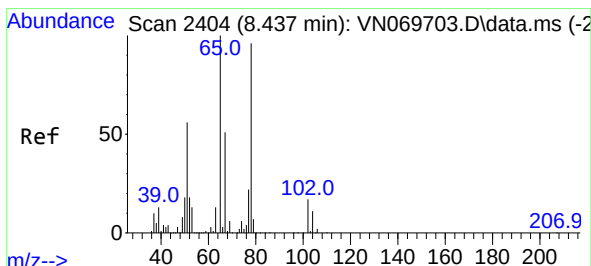
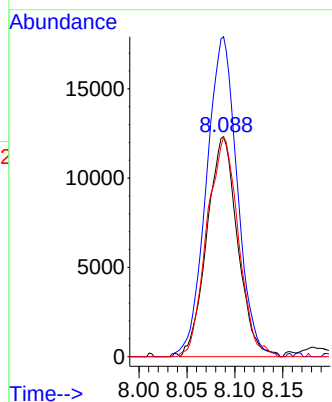
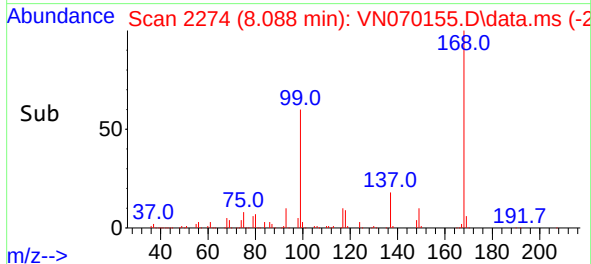


#31
Cyclohexane
Concen: 1.260 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.005 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

Instrument :
MSVOA_N
ClientSampleId :

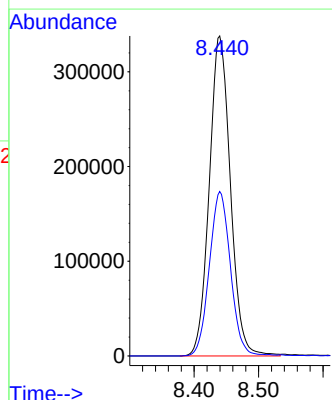
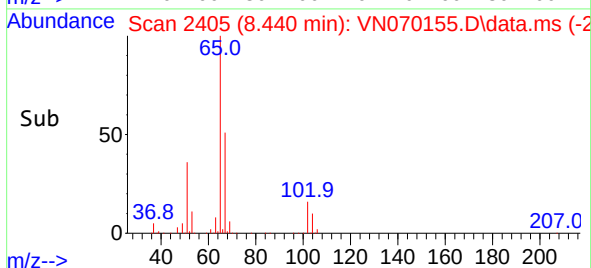
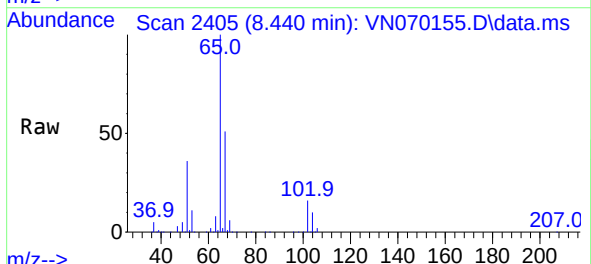


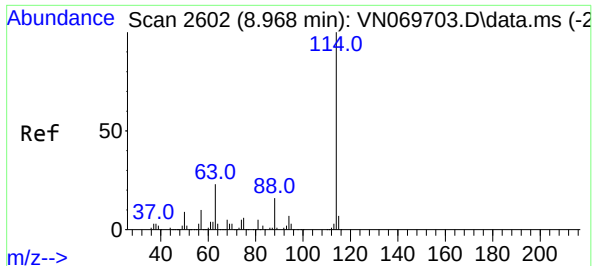
Tgt Ion: 56 Resp: 27439
Ion Ratio Lower Upper
56 100
69 145.5 27.1 40.7#
84 99.7 73.4 110.0



#33
1,2-Dichloroethane-d4
Concen: 49.144 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

Tgt Ion: 65 Resp: 769304
Ion Ratio Lower Upper
65 100
67 51.5 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.971 min Scan# 2

Delta R.T. 0.003 min

Lab File: VN070155.D

Acq: 16 Dec 2021 23:56

Instrument :

MSVOA_N

ClientSampleId :

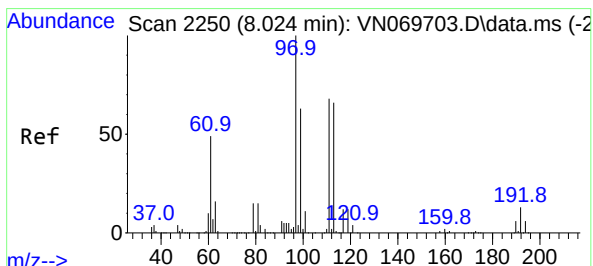
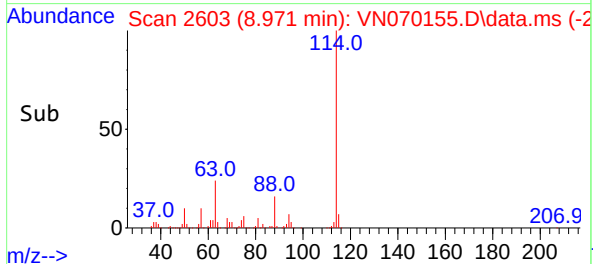
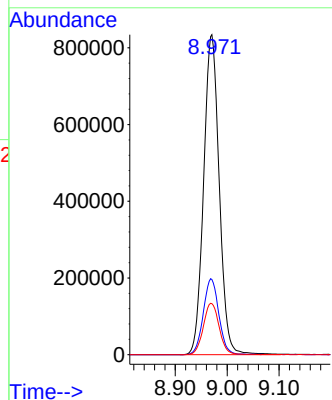
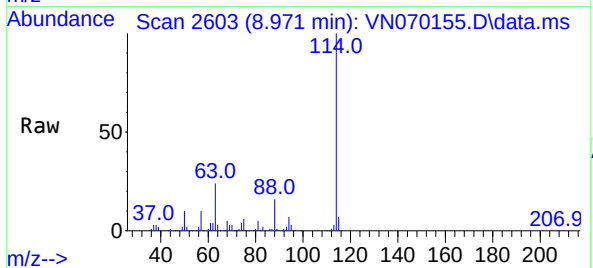
Tgt Ion:114 Resp: 1742367

Ion Ratio Lower Upper

114 100

63 23.5 0.0 37.8

88 15.9 0.0 27.4



#35

Dibromofluoromethane

Concen: 46.319 ug/l

RT: 8.024 min Scan# 2250

Delta R.T. 0.000 min

Lab File: VN070155.D

Acq: 16 Dec 2021 23:56

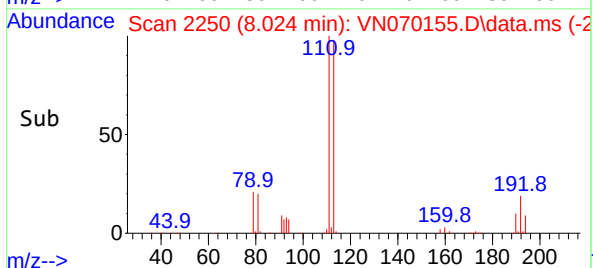
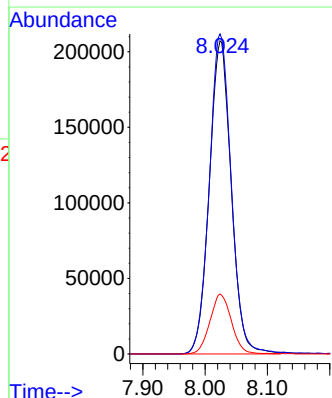
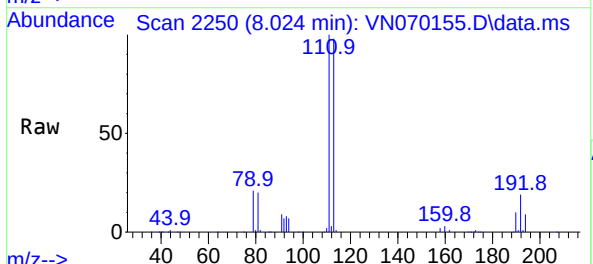
Tgt Ion:113 Resp: 505521

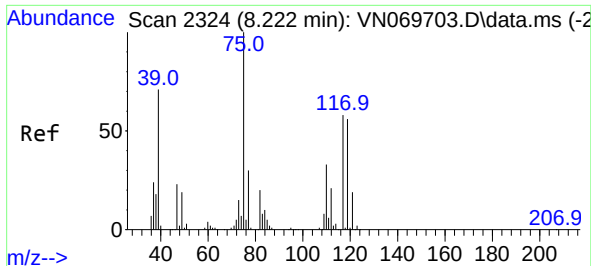
Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.2

192 18.8 16.9 25.3





#36

1,1-Dichloropropene

Concen: 5.137 ug/l

RT: 8.086 min Scan# 21

Delta R.T. -0.137 min

Lab File: VN070155.D

Acq: 16 Dec 2021 23:56

Instrument :

MSVOA_N

ClientSampleId :

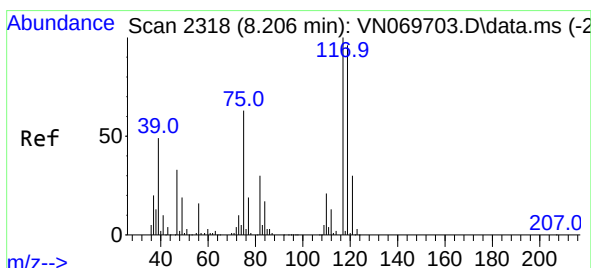
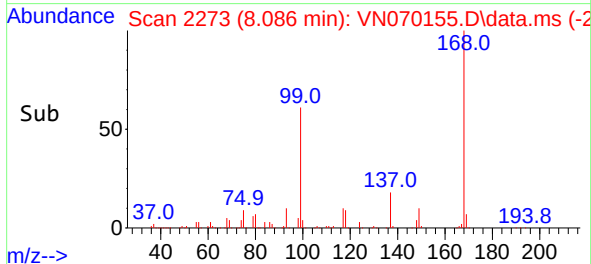
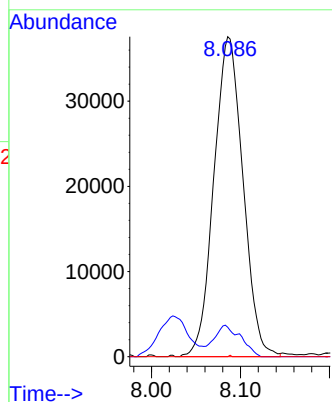
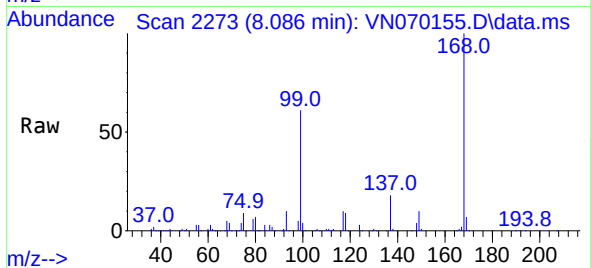
Tgt Ion: 75 Resp: 85213

Ion Ratio Lower Upper

75 100

110 9.1 18.4 55.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.394 ug/l

RT: 8.088 min Scan# 2274

Delta R.T. -0.118 min

Lab File: VN070155.D

Acq: 16 Dec 2021 23:56

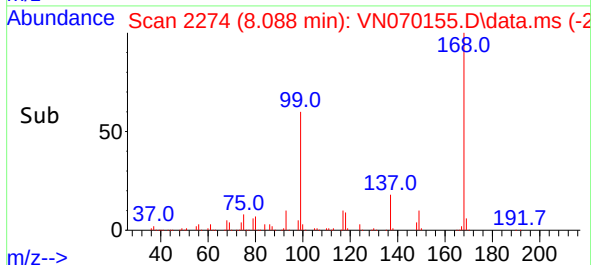
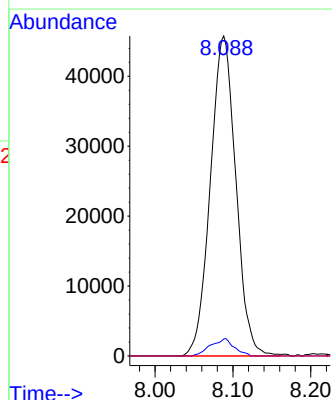
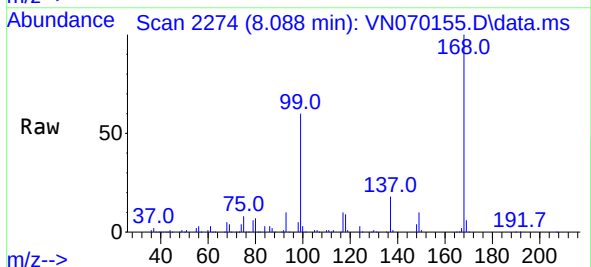
Tgt Ion: 117 Resp: 103993

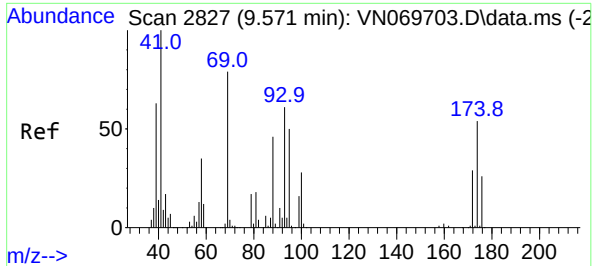
Ion Ratio Lower Upper

117 100

119 5.3 76.1 114.1#

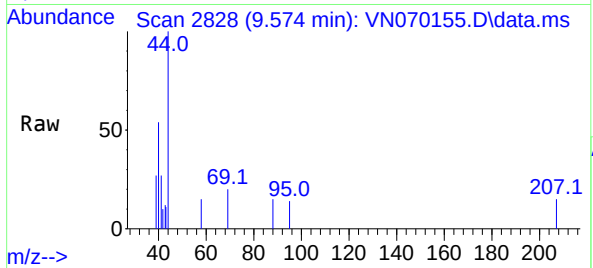
121 0.0 24.2 36.2#



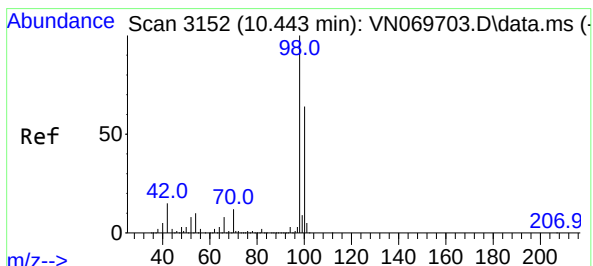
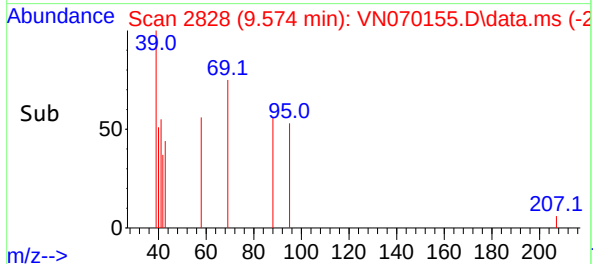
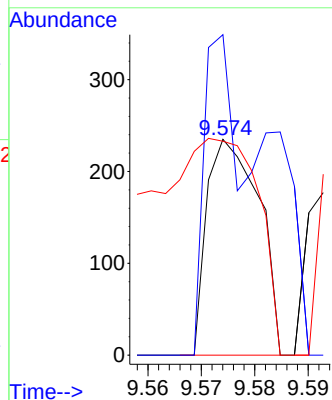


#49
1,4-Dioxane
Concen: 0.520 ug/l
RT: 9.574 min Scan# 21
Delta R.T. 0.003 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

Instrument :
MSVOA_N
ClientSampleId :

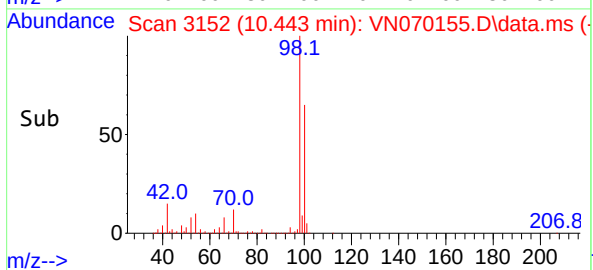
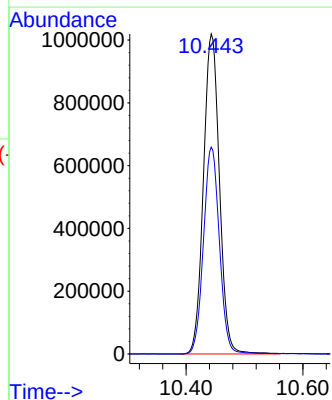
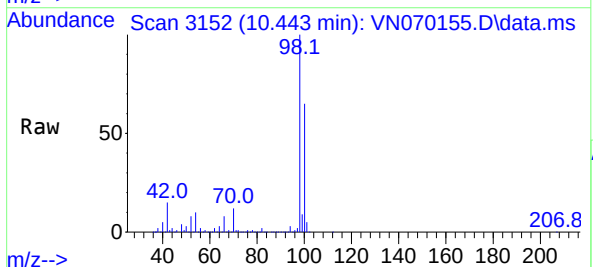


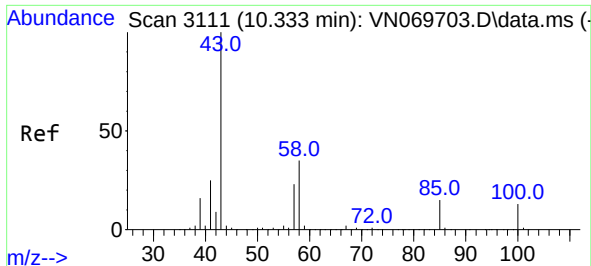
Tgt Ion: 88 Resp: 159
Ion Ratio Lower Upper
88 100
43 107.5 23.4 35.2#
58 217.6 50.6 75.8#



#50
Toluene-d8
Concen: 44.287 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

Tgt Ion: 98 Resp: 1940754
Ion Ratio Lower Upper
98 100
100 64.3 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 0.298 ug/l

RT: 10.333 min Scan# 3111

Delta R.T. 0.000 min

Lab File: VN070155.D

Acq: 16 Dec 2021 23:56

Instrument :

MSVOA_N

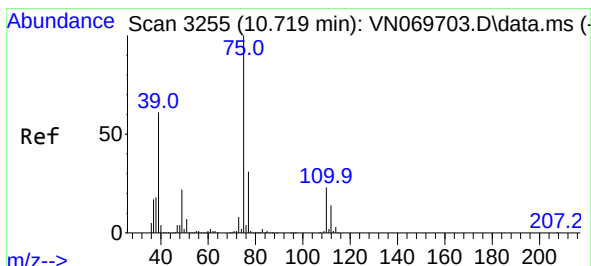
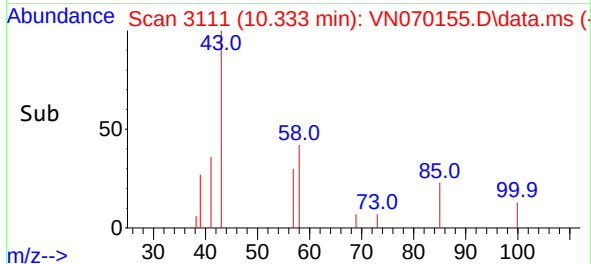
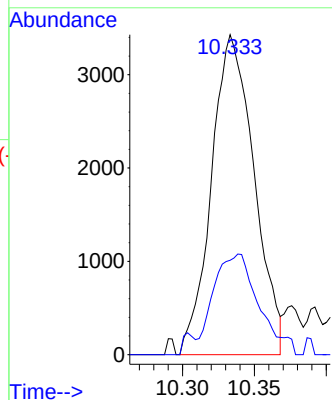
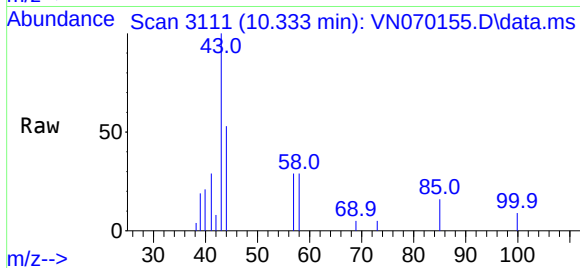
ClientSampleId :

Tgt Ion: 43 Resp: 7072

Ion Ratio Lower Upper

43 100

58 33.4 30.4 45.6



#53

t-1,3-Dichloropropene

Concen: 2.846 ug/l

RT: 10.725 min Scan# 3257

Delta R.T. 0.006 min

Lab File: VN070155.D

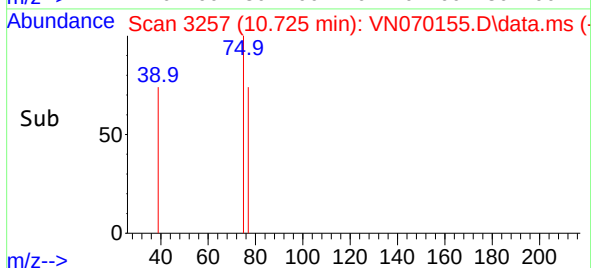
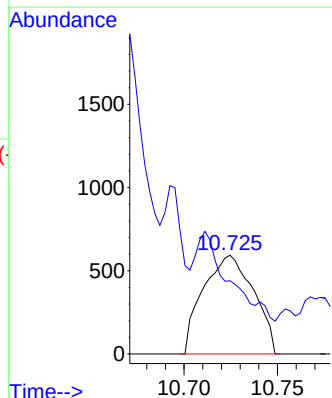
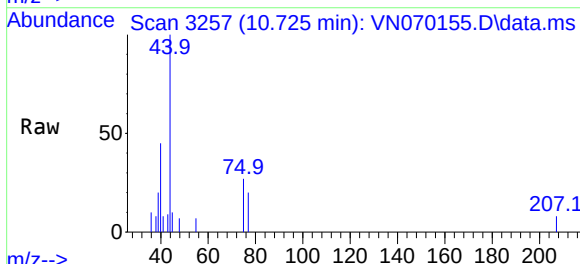
Acq: 16 Dec 2021 23:56

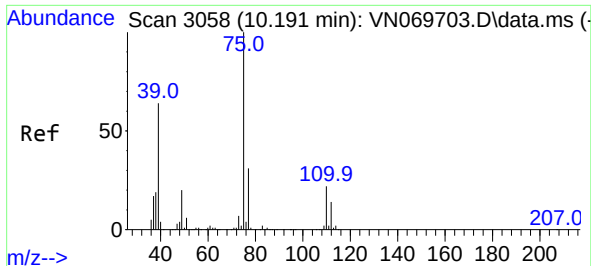
Tgt Ion: 75 Resp: 1115

Ion Ratio Lower Upper

75 100

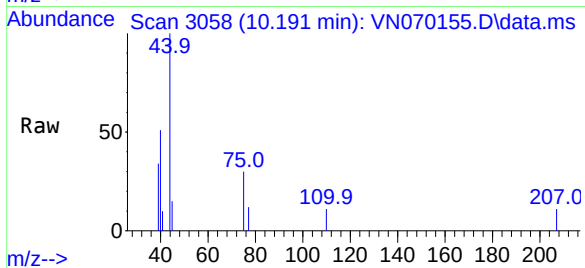
77 33.4 25.6 38.4





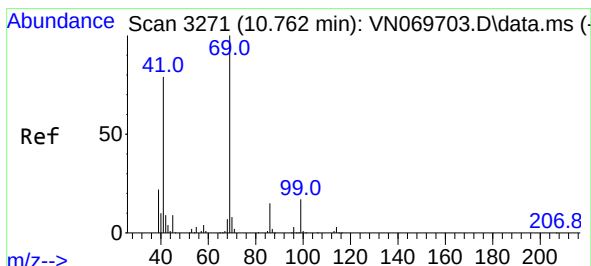
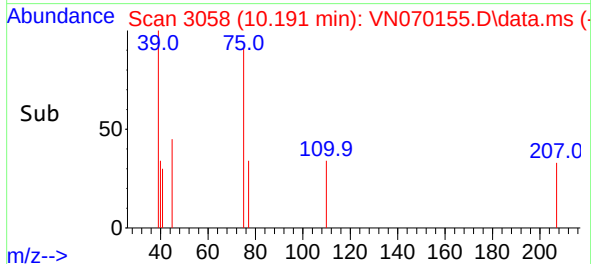
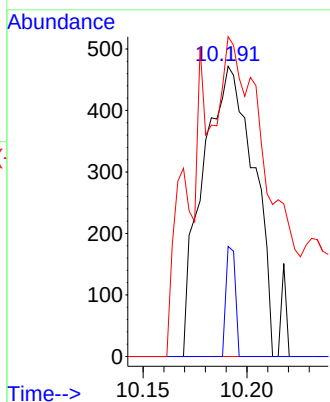
#54
cis-1,3-Dichloropropene
Concen: 2.035 ug/l
RT: 10.191 min Scan# 3058
Delta R.T. -0.000 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 804

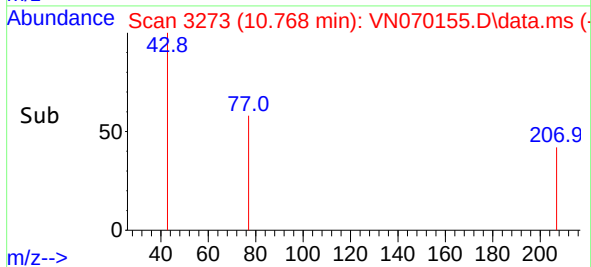
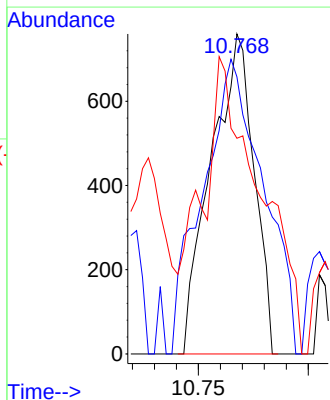
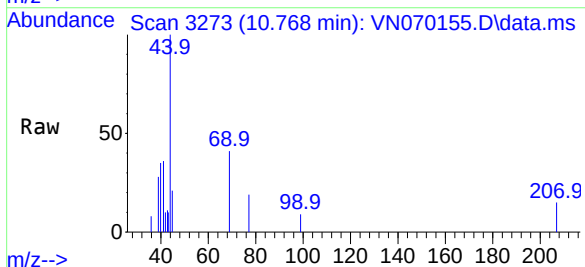
Ion	Ratio	Lower	Upper
75	100		
77	37.9	26.4	39.6
39	56.1	42.5	63.7

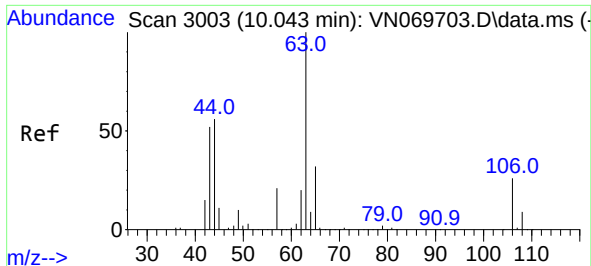


#56
Ethyl methacrylate
Concen: 2.321 ug/l
RT: 10.768 min Scan# 3273
Delta R.T. 0.005 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

Tgt Ion: 69 Resp: 1032

Ion	Ratio	Lower	Upper
69	100		
41	129.4	51.4	77.0#
39	125.7	34.6	52.0#

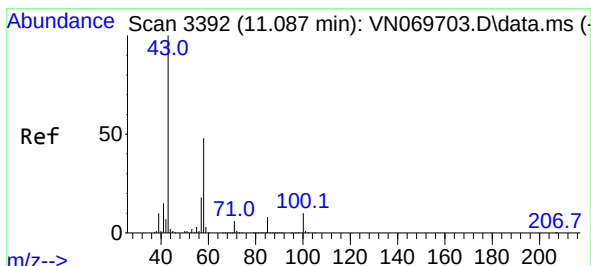
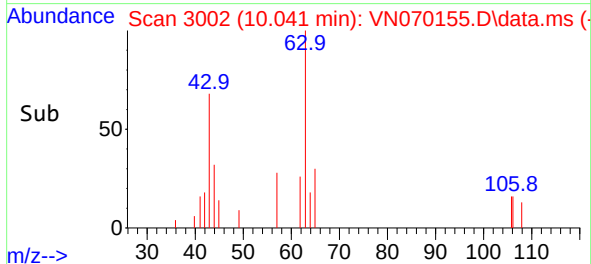
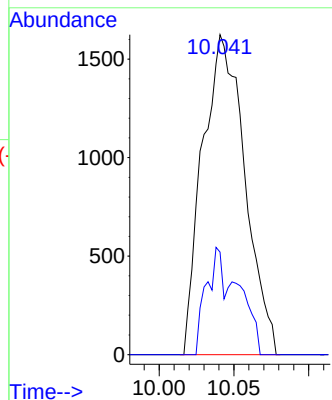
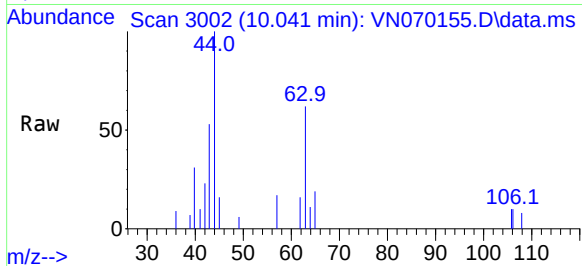




#58
2-Chloroethyl Vinyl ether
Concen: 18.854 ug/l
RT: 10.041 min Scan# 3003
Delta R.T. -0.002 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

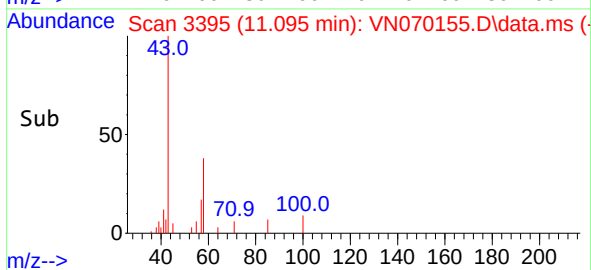
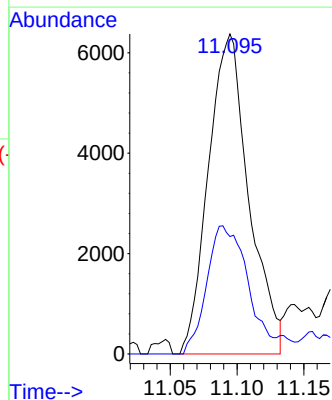
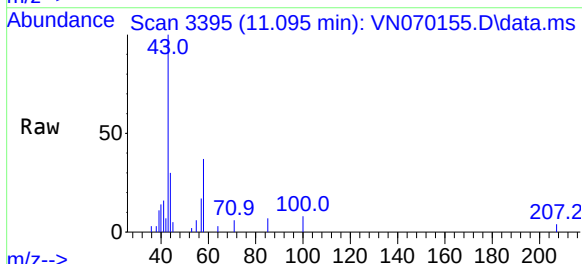
Instrument :
MSVOA_N
ClientSampleId :

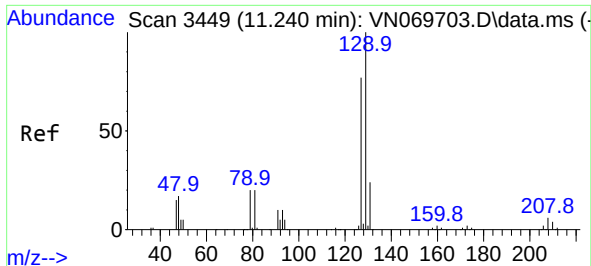
Tgt Ion: 63 Resp: 3195
Ion Ratio Lower Upper
63 100
106 14.9 23.9 35.9#



#59
2-Hexanone
Concen: 0.749 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

Tgt Ion: 43 Resp: 13425
Ion Ratio Lower Upper
43 100
58 40.3 26.9 80.7

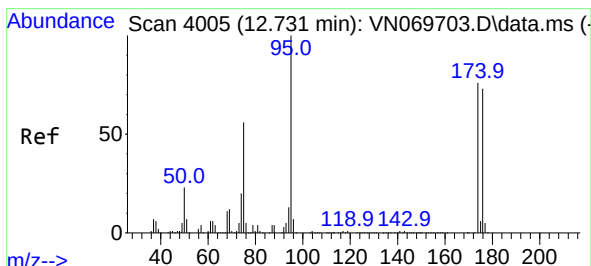
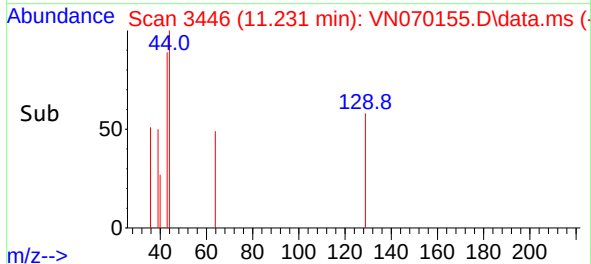
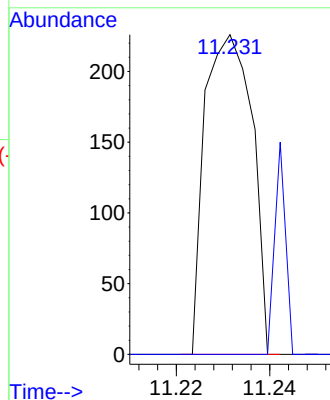
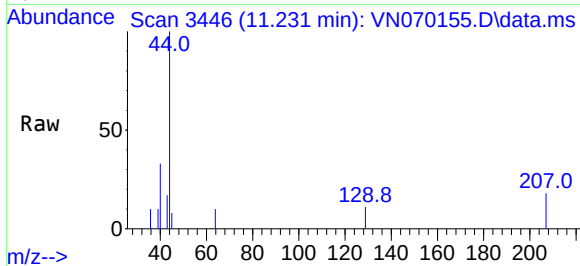




#60
Dibromochloromethane
Concen: 2.388 ug/l
RT: 11.231 min Scan# 3449
Delta R.T. -0.009 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

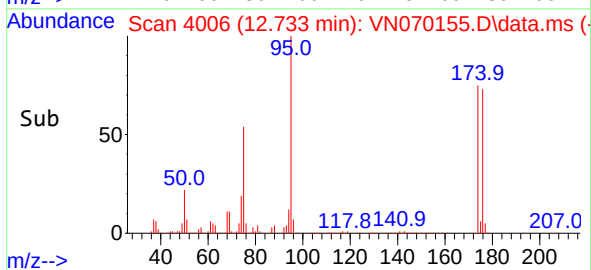
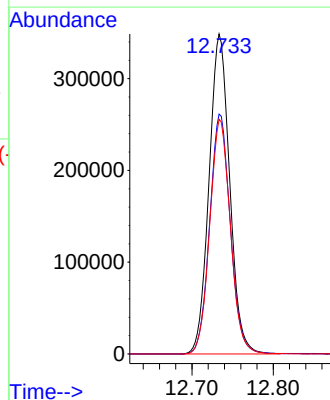
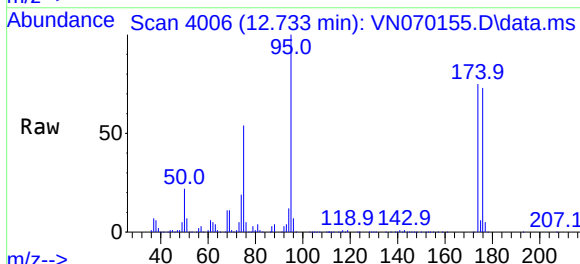
Instrument :
MSVOA_N
ClientSampleId :

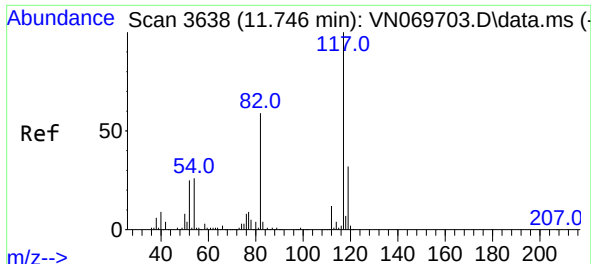
Tgt Ion:129 Resp: 159
Ion Ratio Lower Upper
129 100
127 15.1 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 38.681 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.002 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

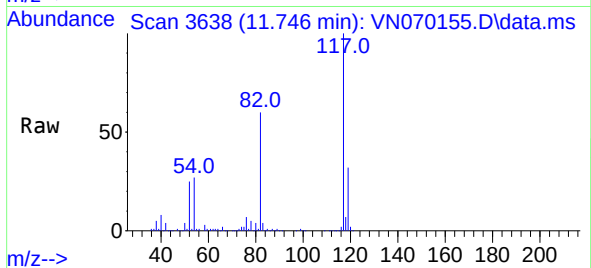
Tgt Ion: 95 Resp: 614100
Ion Ratio Lower Upper
95 100
174 75.1 0.0 187.2
176 73.4 0.0 181.4



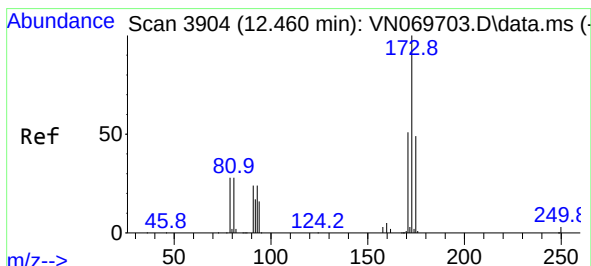
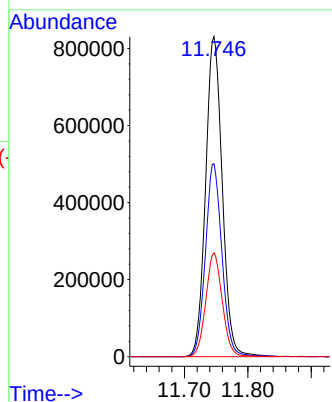
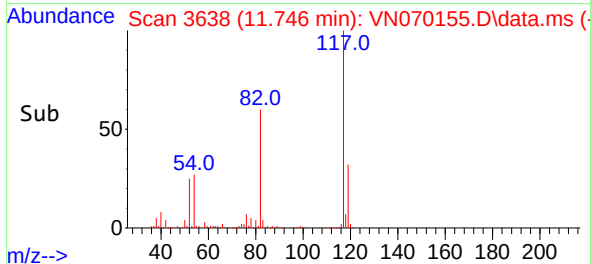


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 30
Delta R.T. 0.000 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

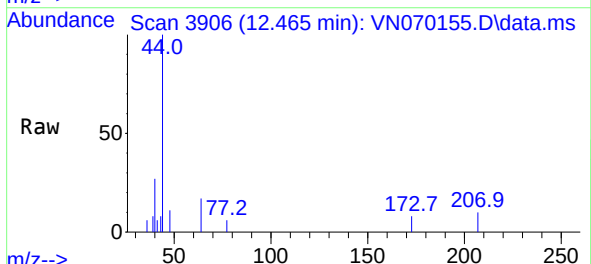
Instrument :
MSVOA_N
ClientSampleId :



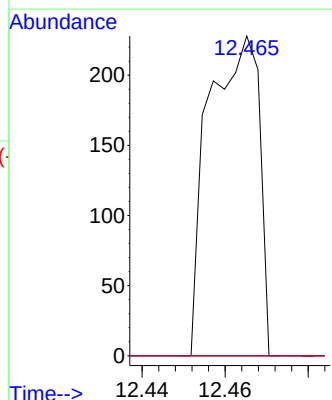
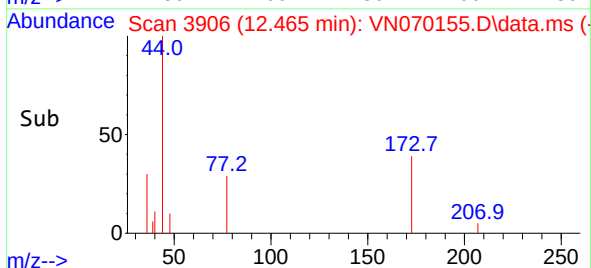
Tgt Ion:117 Resp: 1516246
Ion Ratio Lower Upper
117 100
82 60.3 42.4 63.6
119 32.4 25.4 38.2

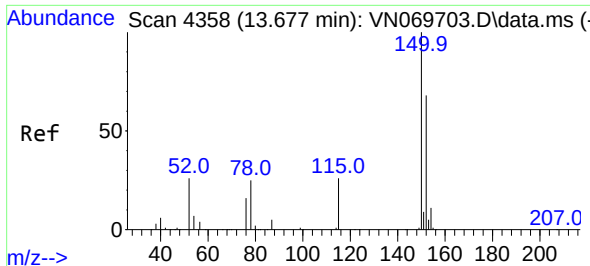


#71
Bromoform
Concen: 2.750 ug/l
RT: 12.465 min Scan# 3906
Delta R.T. 0.005 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56



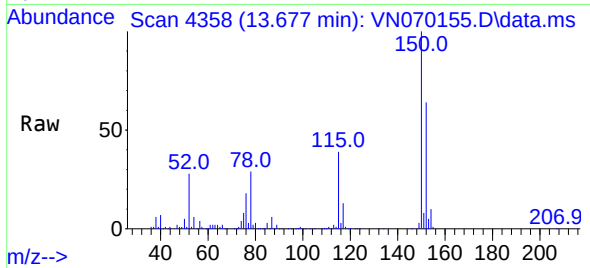
Tgt Ion:173 Resp: 192
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



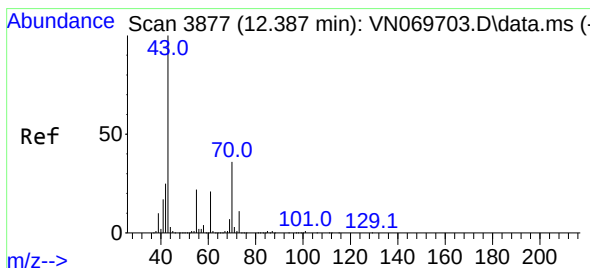
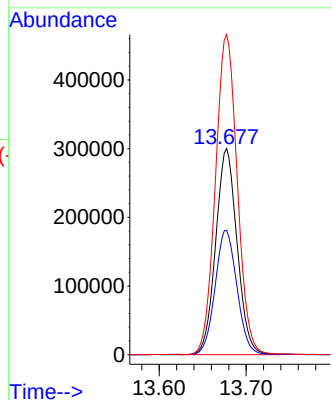
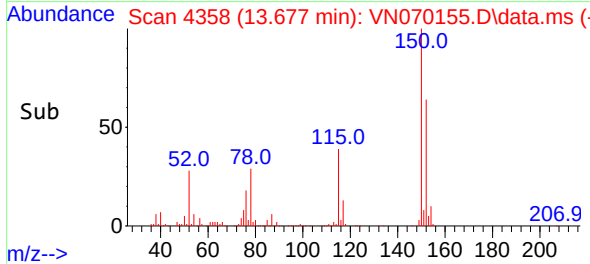


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

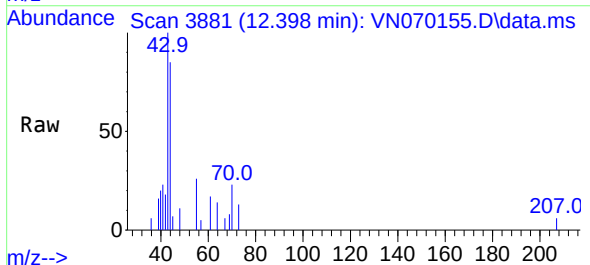
Instrument :
MSVOA_N
ClientSampleId :



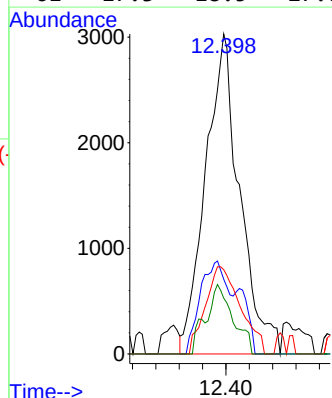
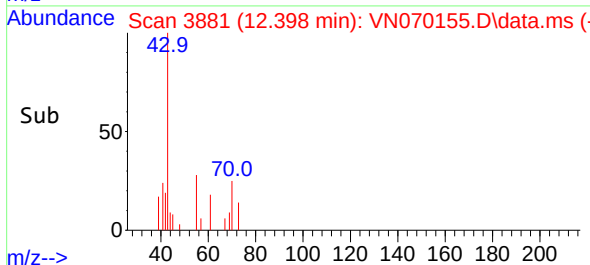
Tgt Ion:152 Resp: 513801
Ion Ratio Lower Upper
152 100
115 61.1 27.5 82.5
150 158.2 0.0 344.4

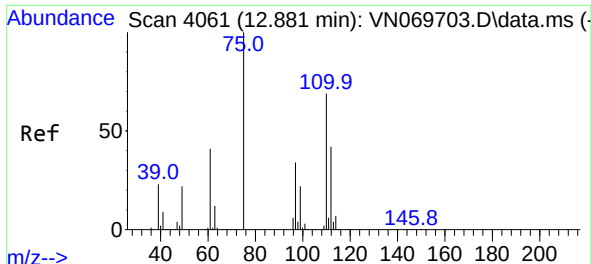


#74
N-ethyl acetate
Concen: 0.304 ug/l
RT: 12.398 min Scan# 3881
Delta R.T. 0.011 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56



Tgt Ion: 43 Resp: 6147
Ion Ratio Lower Upper
43 100
70 24.0 33.4 50.0#
55 28.0 19.3 28.9
61 17.3 18.5 27.7#

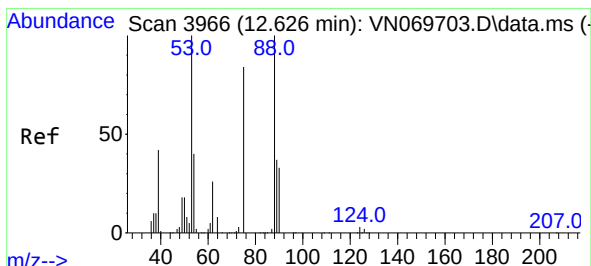
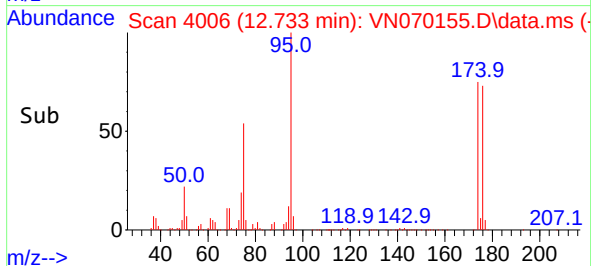
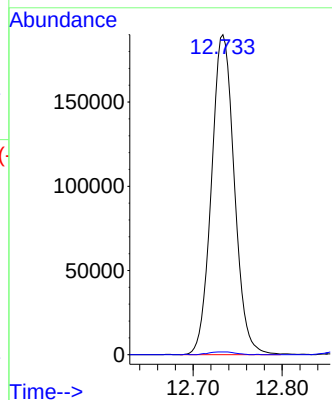
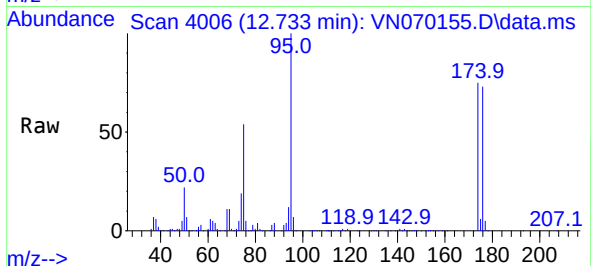




#76
1,2,3-Trichloropropane
Concen: 23.040 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

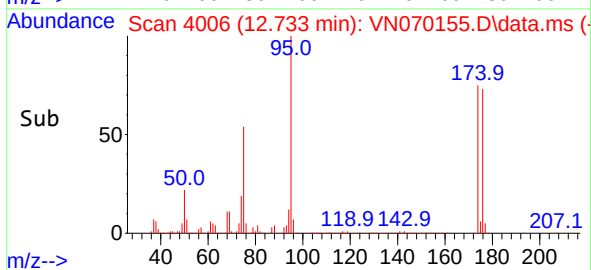
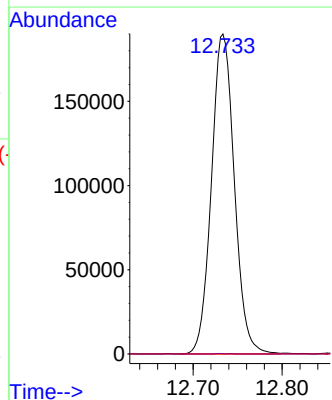
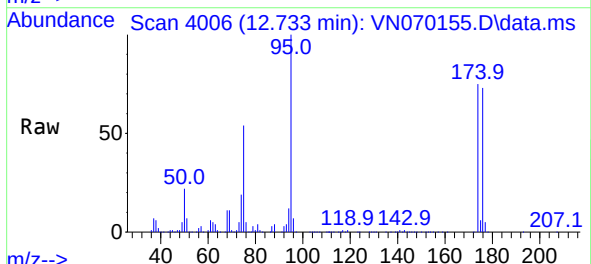
Instrument :
MSVOA_N
ClientSampleId :

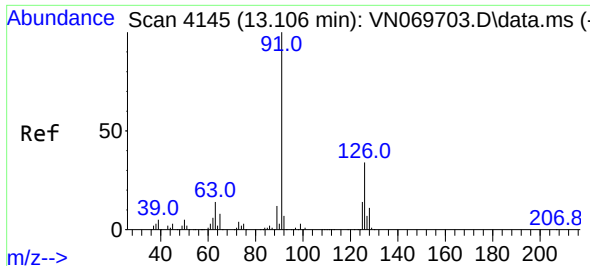
Tgt Ion: 75 Resp: 339493
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.345 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.107 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

Tgt Ion: 75 Resp: 339493
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#

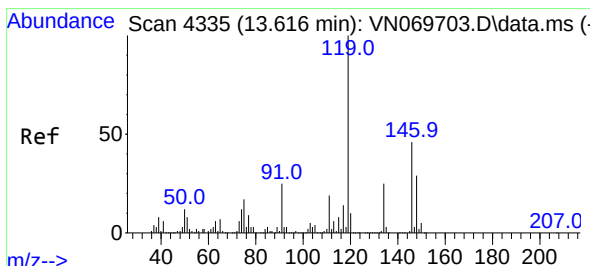
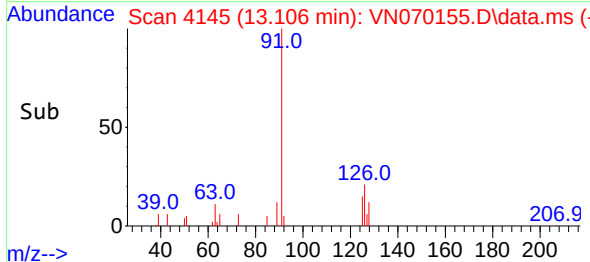
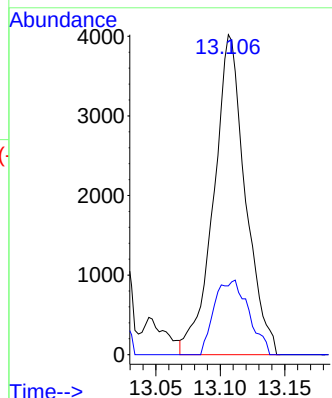
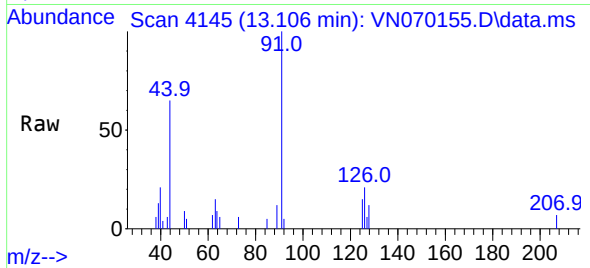




#82
4-Chlorotoluene
Concen: 0.227 ug/l
RT: 13.106 min Scan# 4145
Delta R.T. 0.000 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

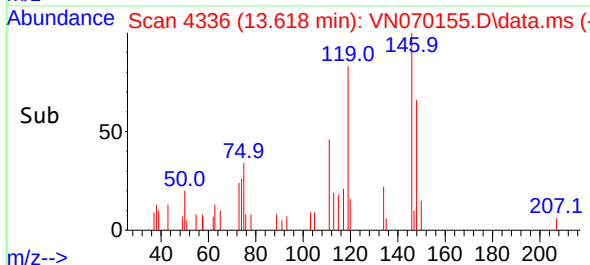
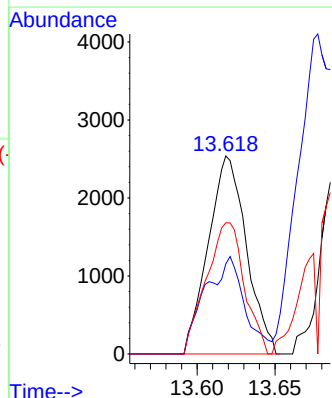
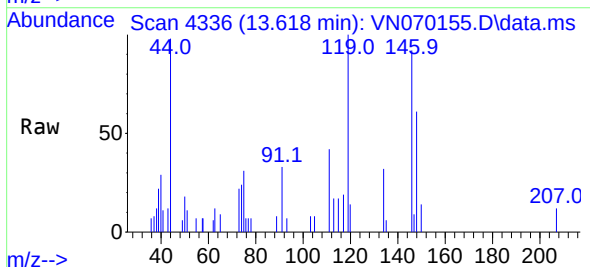
Instrument :
MSVOA_N
ClientSampleId :

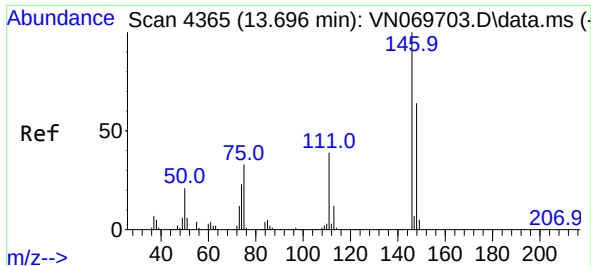
Tgt Ion: 91 Resp: 6856
Ion Ratio Lower Upper
91 100
126 25.3 18.2 54.6



#87
1,3-Dichlorobenzene
Concen: 0.245 ug/l
RT: 13.618 min Scan# 4336
Delta R.T. 0.003 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

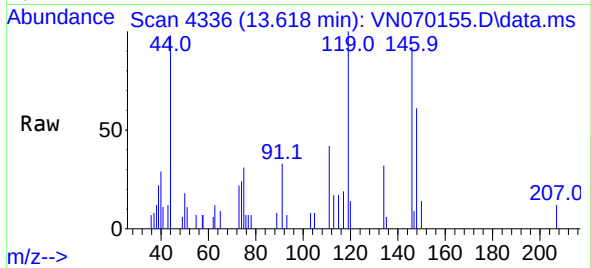
Tgt Ion: 146 Resp: 4316
Ion Ratio Lower Upper
146 100
111 51.2 18.6 55.6
148 66.2 31.6 95.0



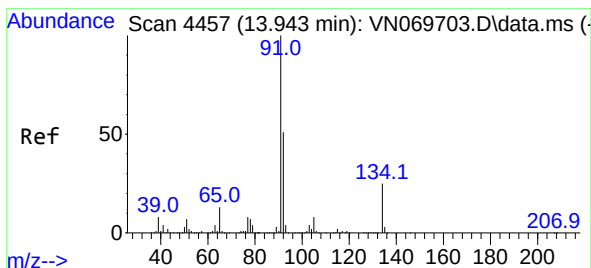
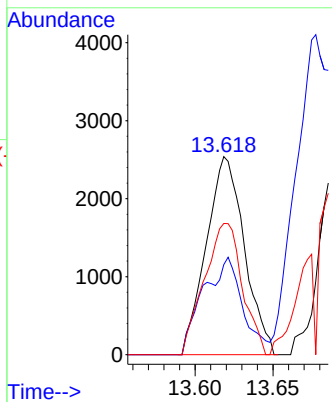
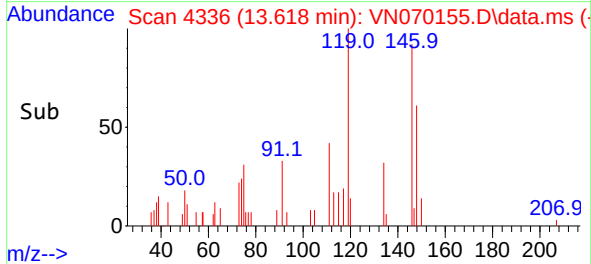


#88
1,4-Dichlorobenzene
Concen: 0.249 ug/l
RT: 13.618 min Scan# 4316
Delta R.T. -0.078 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

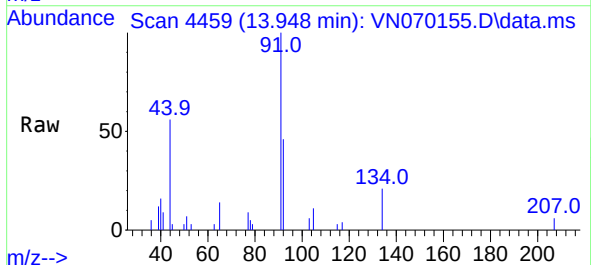
Instrument :
MSVOA_N
ClientSampleId :



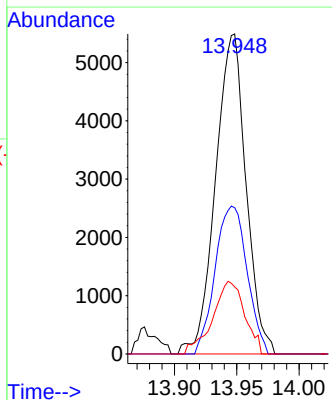
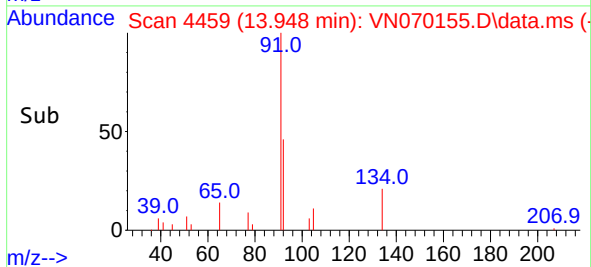
Tgt Ion:146	Resp:	4316
Ion	Ratio	Lower Upper
146	100	
111	51.2	18.3 54.8
148	66.2	31.8 95.4

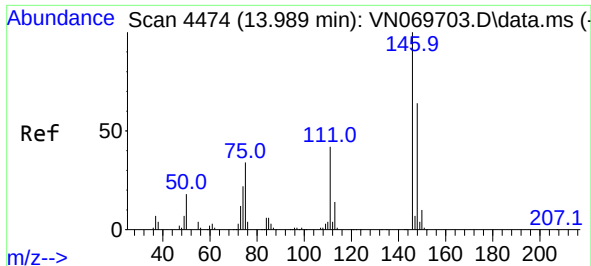


#89
n-Butylbenzene
Concen: 0.333 ug/l
RT: 13.948 min Scan# 4459
Delta R.T. 0.005 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56



Tgt Ion: 91	Resp:	9343
Ion	Ratio	Lower Upper
91	100	
92	48.3	25.4 76.0
134	23.8	13.6 40.8





#91

1,2-Dichlorobenzene

Concen: 0.257 ug/l

RT: 13.991 min Scan# 44

Delta R.T. 0.003 min

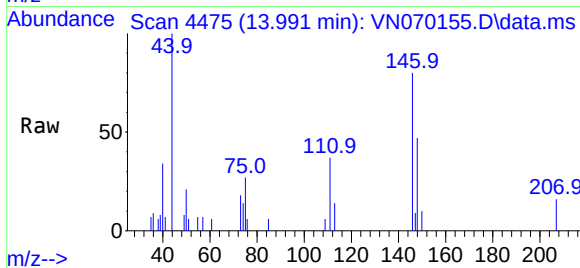
Lab File: VN070155.D

Acq: 16 Dec 2021 23:56

Instrument :

MSVOA_N

ClientSampleId :



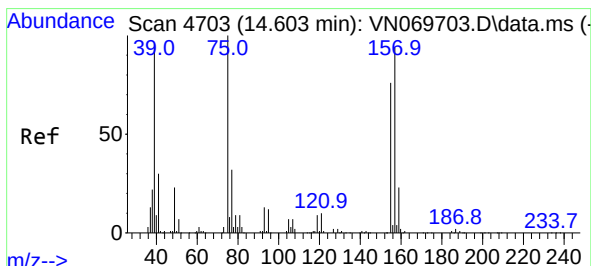
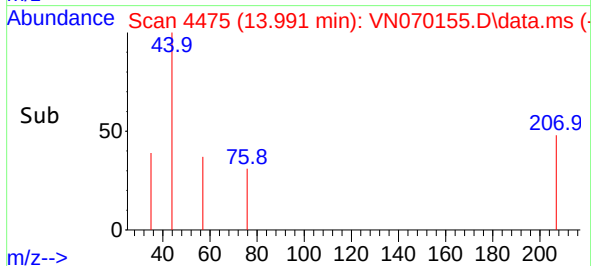
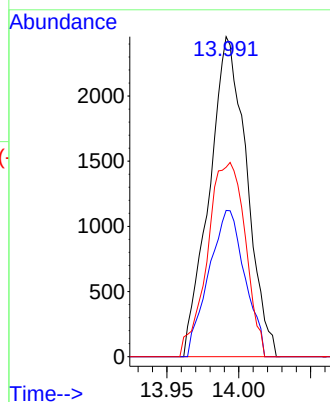
Tgt Ion:146 Resp: 4422

Ion Ratio Lower Upper

146 100

111 44.2 19.1 57.3

148 61.6 32.1 96.3



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.292 ug/l

RT: 14.600 min Scan# 4702

Delta R.T. -0.003 min

Lab File: VN070155.D

Acq: 16 Dec 2021 23:56

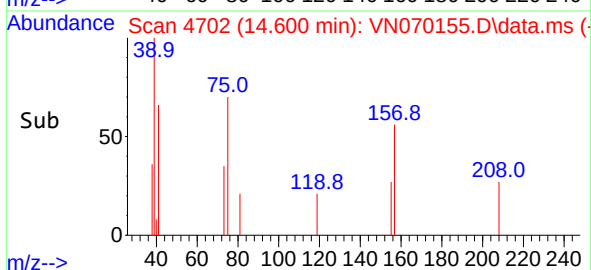
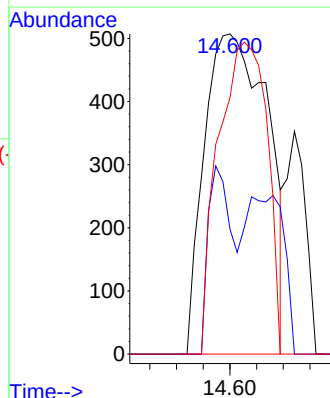
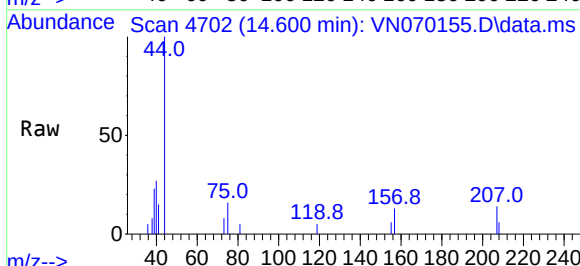
Tgt Ion: 75 Resp: 834

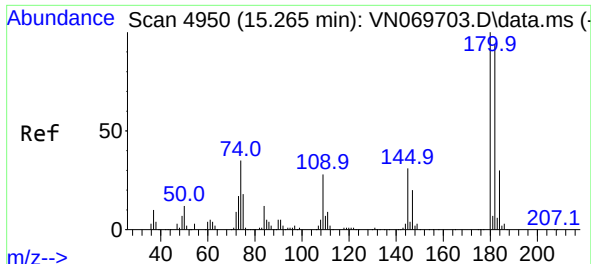
Ion Ratio Lower Upper

75 100

155 22.3 46.9 140.7#

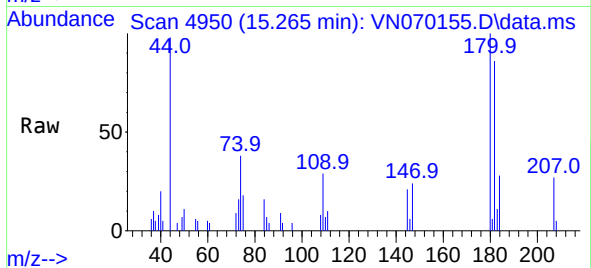
157 74.9 60.6 181.7



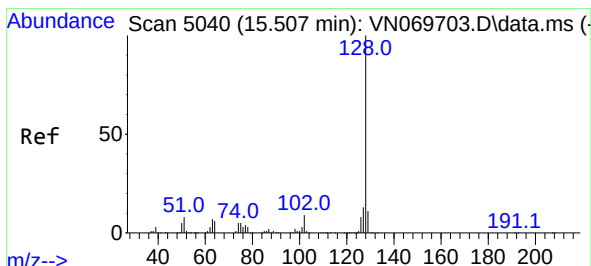
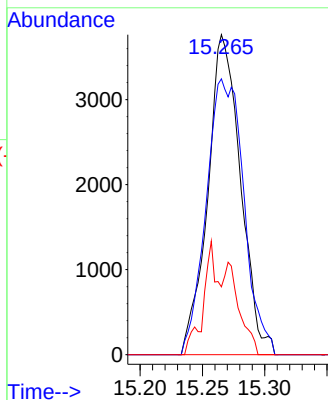
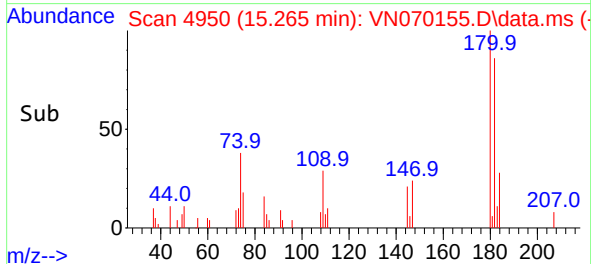


#93
1,2,4-Trichlorobenzene
Concen: 3.647 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56

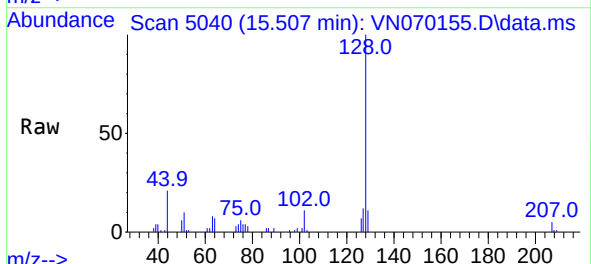
Instrument :
MSVOA_N
ClientSampleId :



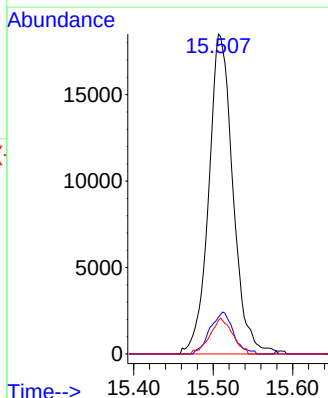
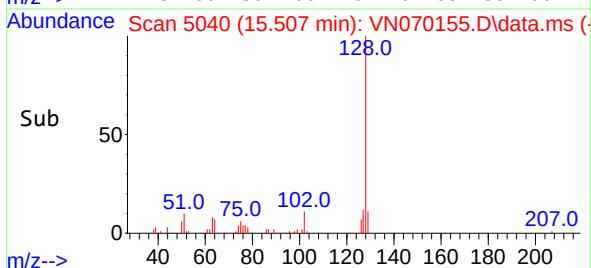
Tgt Ion:180 Resp: 6881
Ion Ratio Lower Upper
180 100
182 99.0 48.3 144.9
145 13.7 14.5 43.5#

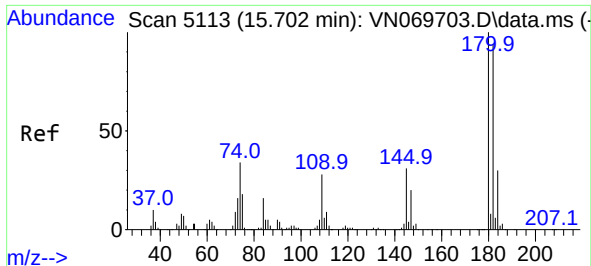


#95
Naphthalene
Concen: 5.421 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN070155.D
Acq: 16 Dec 2021 23:56



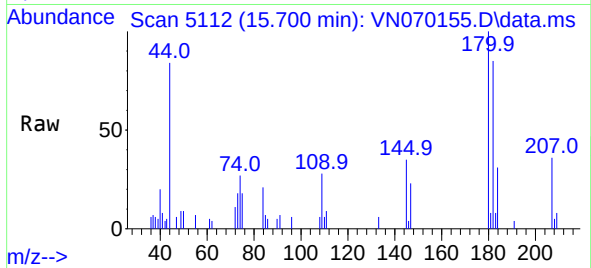
Tgt Ion:128 Resp: 39178
Ion Ratio Lower Upper
128 100
127 12.6 10.5 15.7
129 10.4 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 3.454 ug/l
 RT: 15.700 min Scan# 51
 Delta R.T. -0.002 min
 Lab File: VN070155.D
 Acq: 16 Dec 2021 23:56

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	8794
Ion	Ratio	Lower	Upper
180	100		
182	92.2	47.4	142.2
145	33.5	15.0	45.1

