

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121621\
 Data File : VN070140.D
 Acq On : 16 Dec 2021 16:14
 Operator : JC/MD
 Sample : M5011-10
 Misc : 3.85g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 16 17:30:53 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)

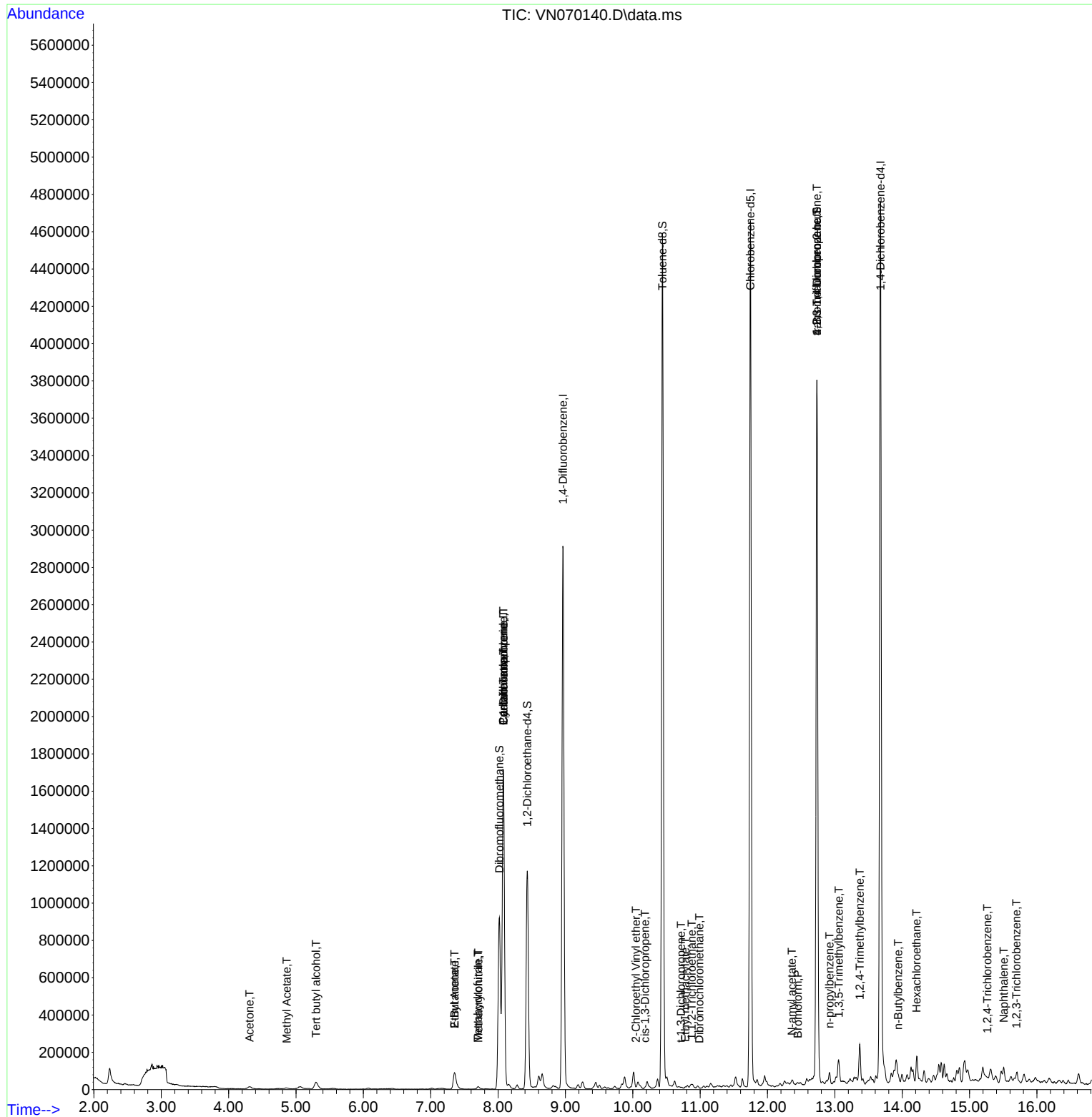
Internal Standards						
1) Pentafluorobenzene	8.078	168	1303031	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.965	114	2446082	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	2549394	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	1237983	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	1018456	50.622	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 101.240%			
35) Dibromofluoromethane	8.019	113	677187	44.198	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 88.400%			
50) Toluene-d8	10.441	98	3076386	50.005	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 100.000%			
62) 4-Bromofluorobenzene	12.734	95	1322464	59.335	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 118.680%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.297	59	39057	10.270	ug/l #	72
16) Acetone	4.312	43	21710	1.794	ug/l #	89
18) Methyl Acetate	4.862	43	11244	0.308	ug/l #	53
25) 2-Butanone	7.354	43	178295	10.843	ug/l	91
29) Tetrahydrofuran	7.702	42	11865	1.188	ug/l #	86
31) Cyclohexane	8.078	56	36372	1.299	ug/l #	31
36) 1,1-Dichloropropene	8.078	75	108538	4.661	ug/l #	49
37) Ethyl Acetate	7.354	43	178295	5.144	ug/l #	68
38) Carbon Tetrachloride	8.078	117	132614	5.808	ug/l #	16
41) Methacrylonitrile	7.708	41	7379	0.454	ug/l #	28
53) t-1,3-Dichloropropene	10.714	75	52	2.796	ug/l #	68
54) cis-1,3-Dichloropropene	10.183	75	25	1.999	ug/l #	1
55) 1,1,2-Trichloroethane	10.875	97	4113	0.235	ug/l #	29
56) Ethyl methacrylate	10.778	69	716	2.300	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.046	63	125	18.402	ug/l #	45
60) Dibromochloromethane	10.990	129	83	2.380	ug/l #	11
71) Bromoform	12.449	173	51	2.734	ug/l #	29
74) N-amyl acetate	12.361	43	10608	0.218	ug/l #	53
76) 1,2,3-Trichloropropane	12.734	75	730006	20.562	ug/l #	1
78) n-propylbenzene	12.921	91	46456	0.379	ug/l	99
80) 1,3,5-Trimethylbenzene	13.061	105	38124	0.430	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.734	75	730006	65.892	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.369	105	121686	1.441	ug/l	100
89) n-Butylbenzene	13.940	91	18017	0.267	ug/l #	67
90) Hexachloroethane	14.214	117	6609	0.452	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.265	180	3897	3.059	ug/l #	64
95) Naphthalene	15.507	128	65008	4.974	ug/l	97
96) 1,2,3-Trichlorobenzene	15.697	180	4613	2.657	ug/l #	61

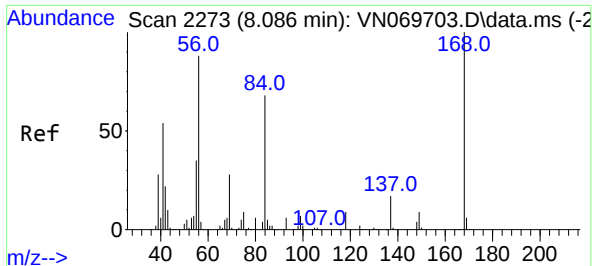
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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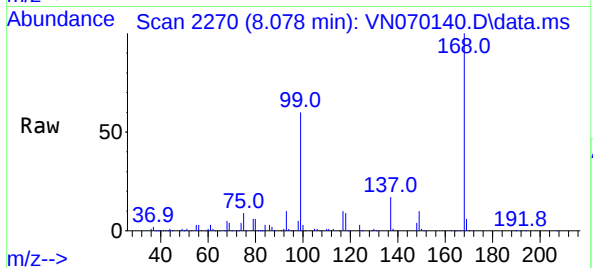
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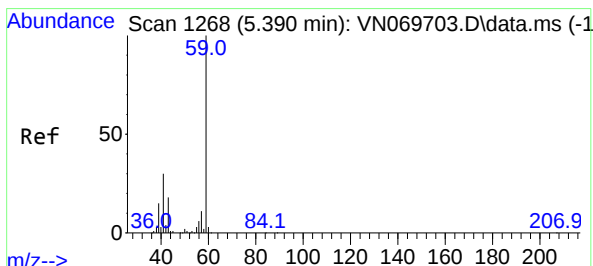
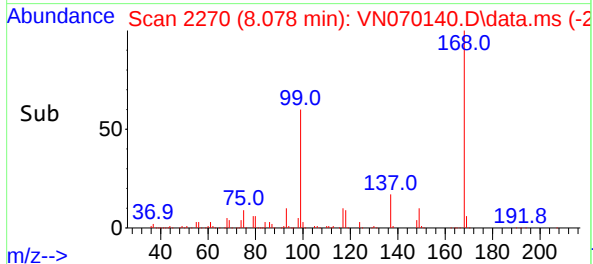
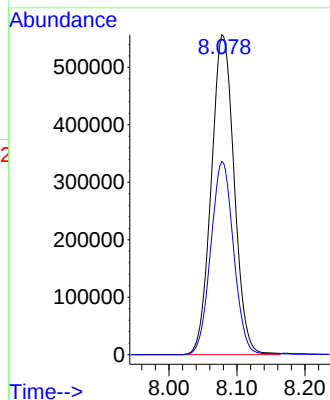


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.078 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Instrument :
MSVOA_N
ClientSampleId :

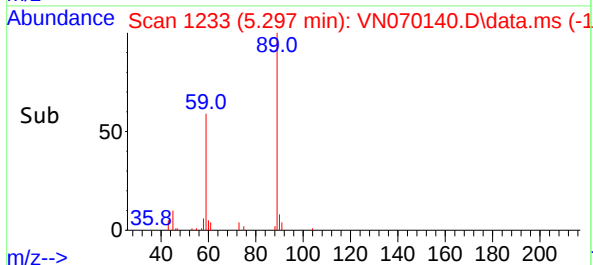
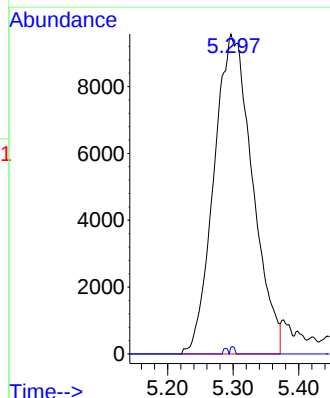
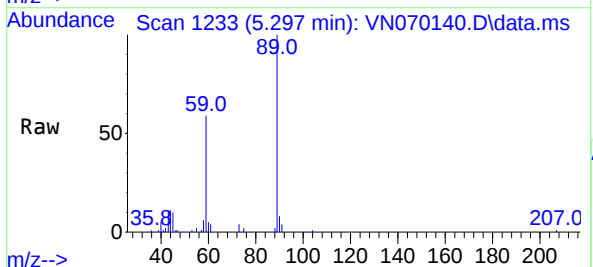


Tgt Ion:168 Resp: 1303031
Ion Ratio Lower Upper
168 100
99 60.3 41.3 61.9



#11
Tert butyl alcohol
Concen: 10.270 ug/l
RT: 5.297 min Scan# 1233
Delta R.T. -0.094 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Tgt Ion: 59 Resp: 39057
Ion Ratio Lower Upper
59 100
57 0.3 8.7 13.1#

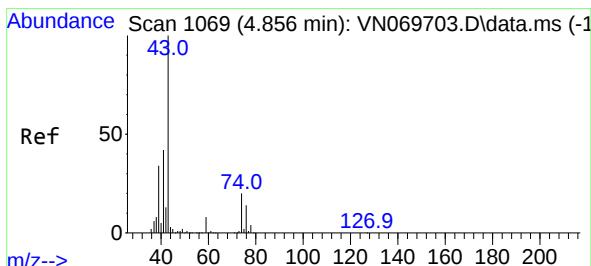
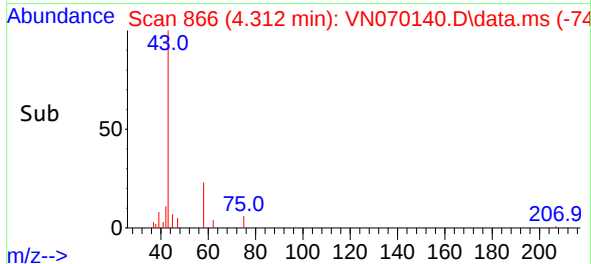
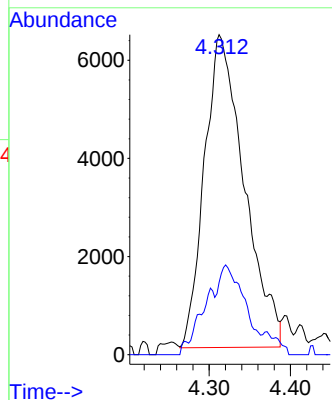
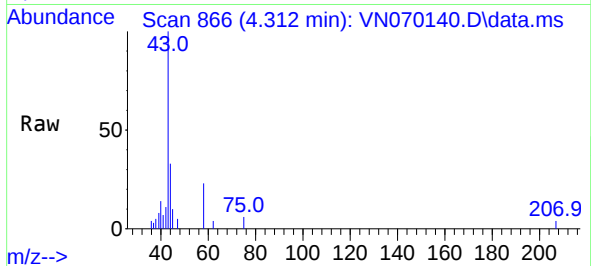




#16
Acetone
Concen: 1.794 ug/l
RT: 4.312 min Scan# 80
Delta R.T. 0.022 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

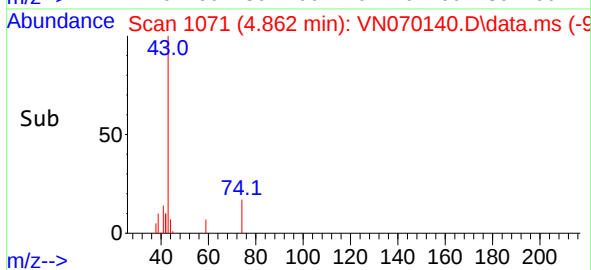
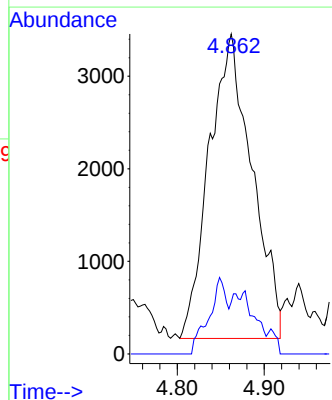
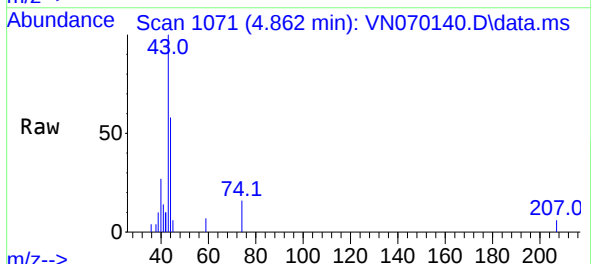
Instrument :
MSVOA_N
ClientSampleId :

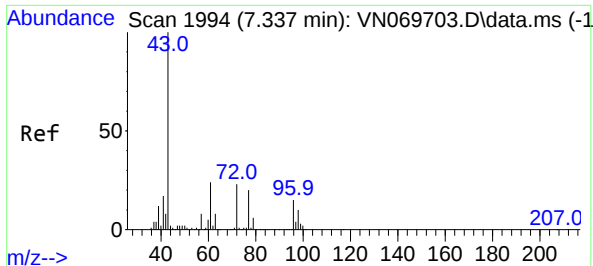
Tgt Ion: 43 Resp: 21710
Ion Ratio Lower Upper
43 100
58 23.1 23.1 34.7#



#18
Methyl Acetate
Concen: 0.308 ug/l
RT: 4.862 min Scan# 1071
Delta R.T. 0.006 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Tgt Ion: 43 Resp: 11244
Ion Ratio Lower Upper
43 100
74 1.0 19.4 29.2#





#25

2-Butanone

Concen: 10.843 ug/l

RT: 7.354 min Scan# 2000

Delta R.T. 0.016 min

Lab File: VN070140.D

Acq: 16 Dec 2021 16:14

Instrument :

MSVOA_N

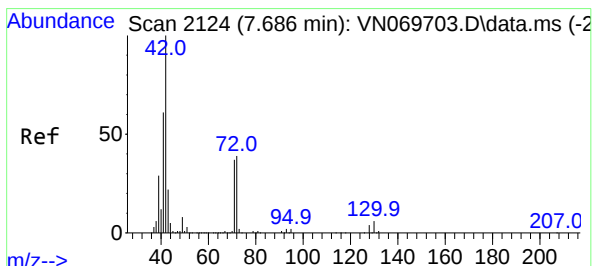
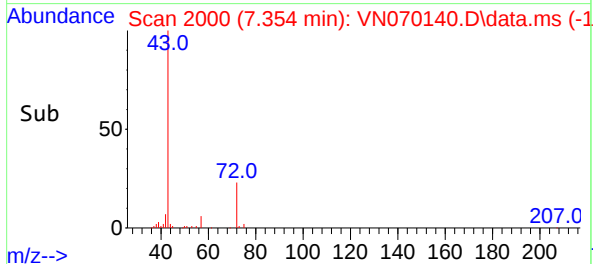
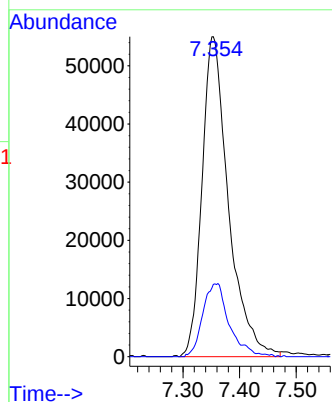
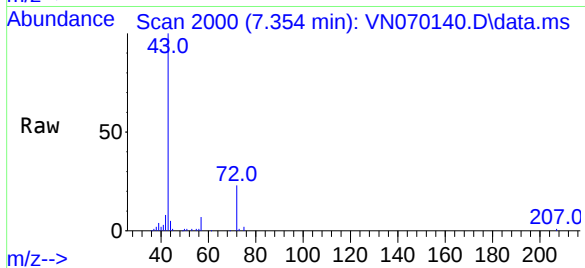
ClientSampleId :

Tgt Ion: 43 Resp: 178295

Ion Ratio Lower Upper

43 100

72 22.6 21.7 32.5



#29

Tetrahydrofuran

Concen: 1.188 ug/l

RT: 7.702 min Scan# 2130

Delta R.T. 0.016 min

Lab File: VN070140.D

Acq: 16 Dec 2021 16:14

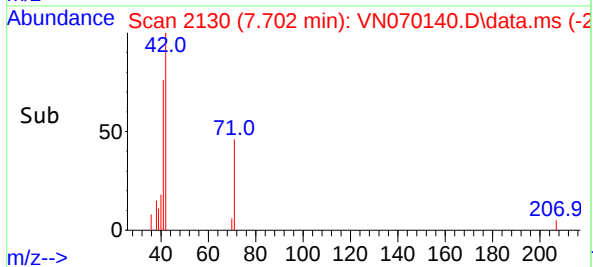
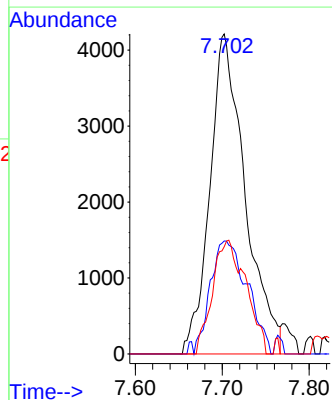
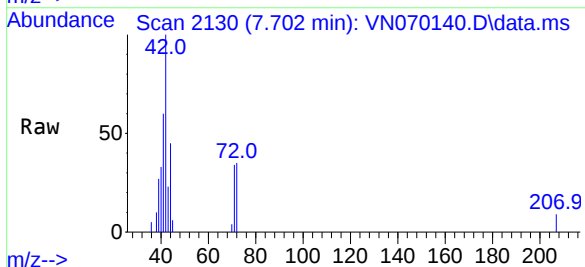
Tgt Ion: 42 Resp: 11865

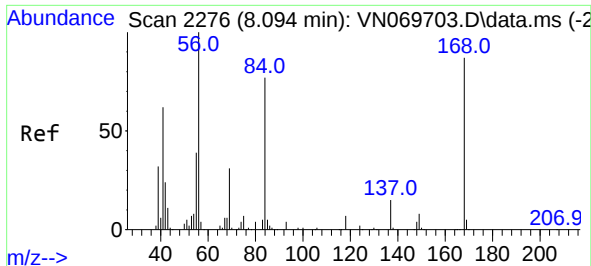
Ion Ratio Lower Upper

42 100

72 36.9 36.3 54.5

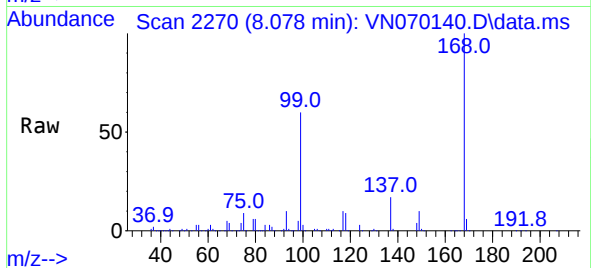
71 33.8 34.7 52.1#



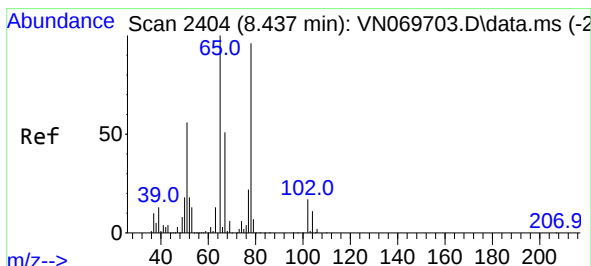
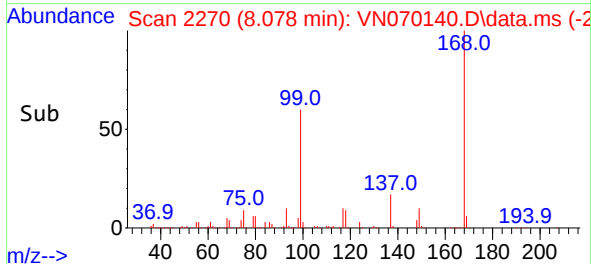
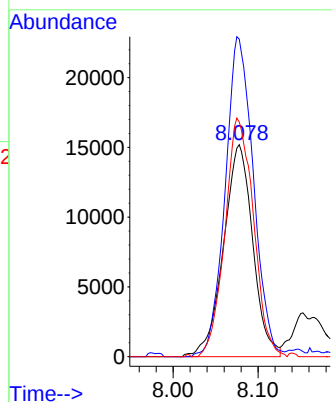


#31
Cyclohexane
Concen: 1.299 ug/l
RT: 8.078 min Scan# 21
Delta R.T. -0.016 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Instrument :
MSVOA_N
ClientSampleId :

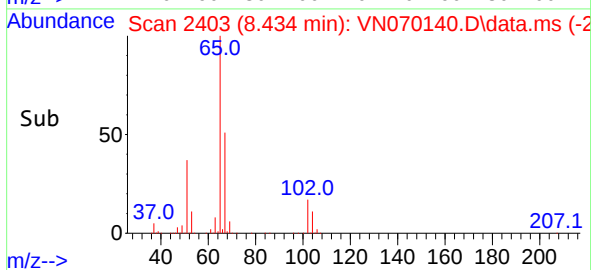
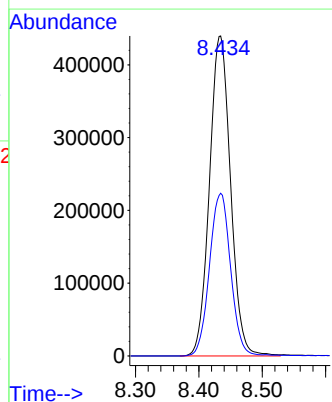
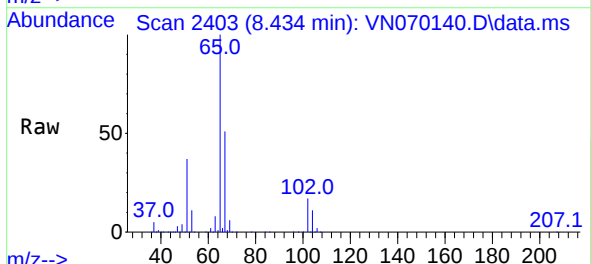


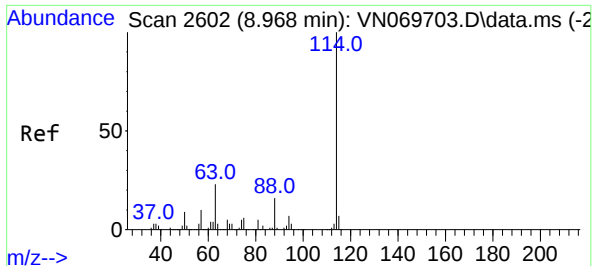
Tgt Ion: 56 Resp: 36372
Ion Ratio Lower Upper
56 100
69 149.8 27.1 40.7#
84 110.7 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 50.622 ug/l
RT: 8.434 min Scan# 2403
Delta R.T. -0.002 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

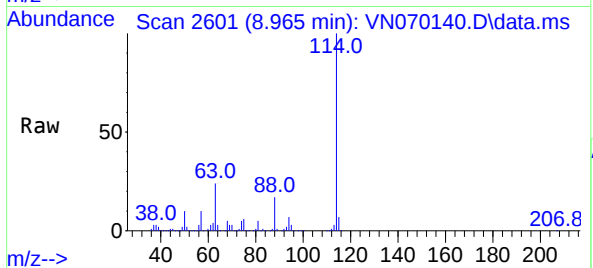
Tgt Ion: 65 Resp: 1018456
Ion Ratio Lower Upper
65 100
67 50.8 0.0 103.0





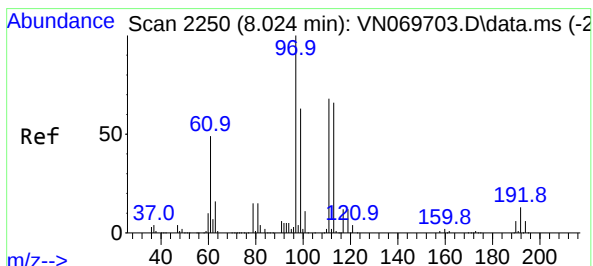
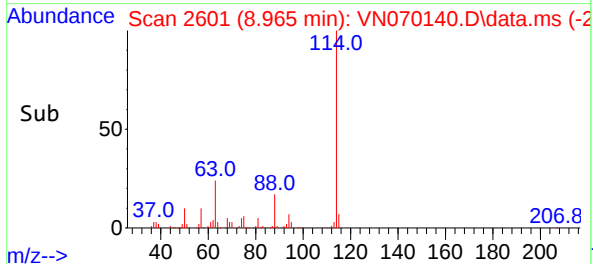
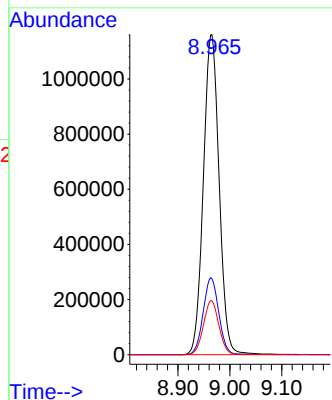
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.965 min Scan# 21
Delta R.T. -0.003 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:114 Resp: 2446082

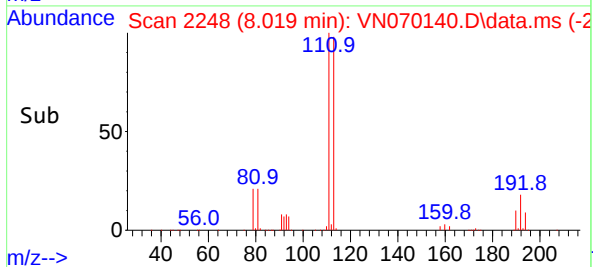
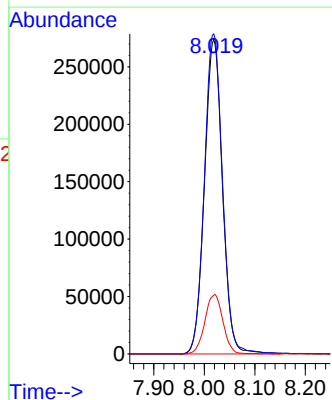
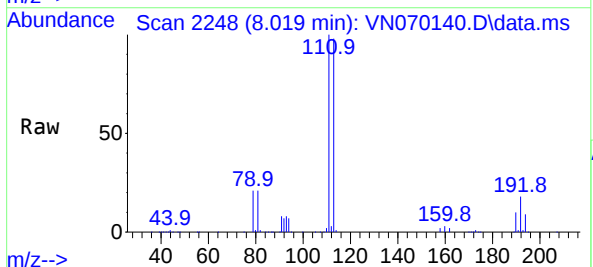
Ion	Ratio	Lower	Upper
114	100		
63	23.8	0.0	37.8
88	16.9	0.0	27.4

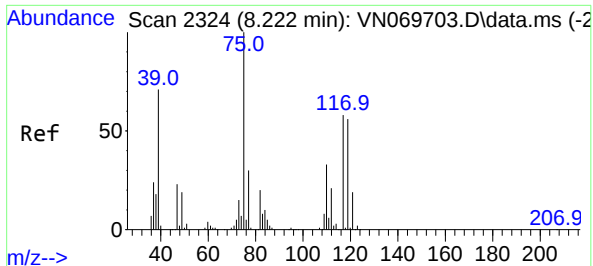


#35
Dibromofluoromethane
Concen: 44.198 ug/l
RT: 8.019 min Scan# 2248
Delta R.T. -0.005 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Tgt Ion:113 Resp: 677187

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.2	123.2
192	19.0	16.9	25.3





#36

1,1-Dichloropropene

Concen: 4.661 ug/l

RT: 8.078 min Scan# 21

Delta R.T. -0.145 min

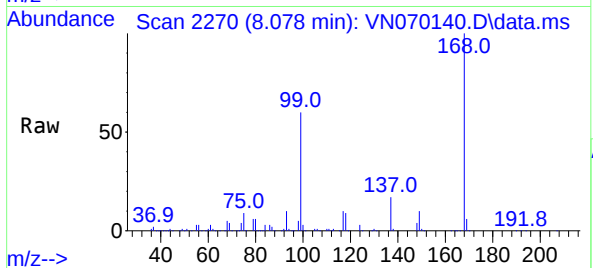
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Instrument :

MSVOA_N

ClientSampleId :



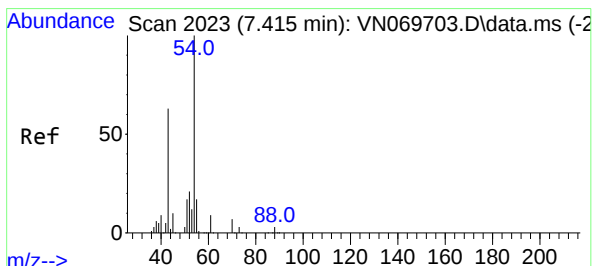
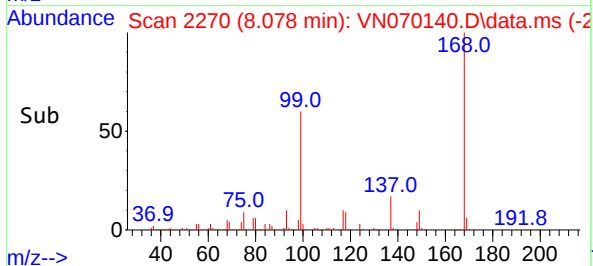
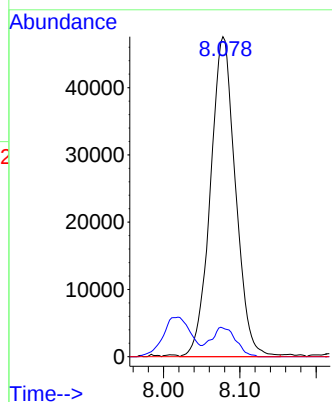
Tgt Ion: 75 Resp: 108538

Ion Ratio Lower Upper

75 100

110 9.1 18.4 55.2#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 5.144 ug/l

RT: 7.354 min Scan# 2000

Delta R.T. -0.061 min

Lab File: VN070140.D

Acq: 16 Dec 2021 16:14

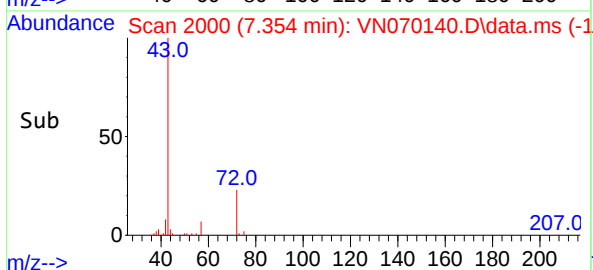
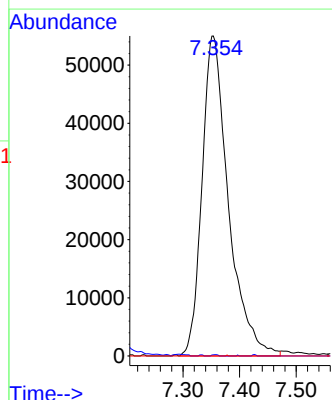
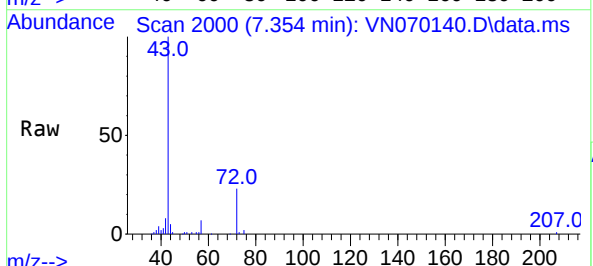
Tgt Ion: 43 Resp: 178295

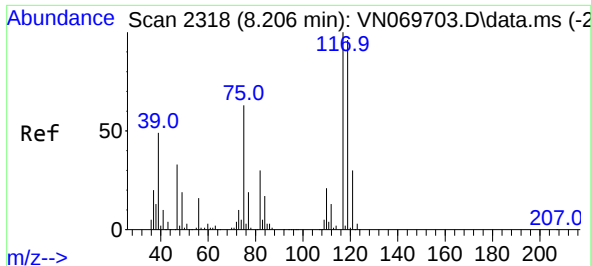
Ion Ratio Lower Upper

43 100

61 0.1 11.5 17.3#

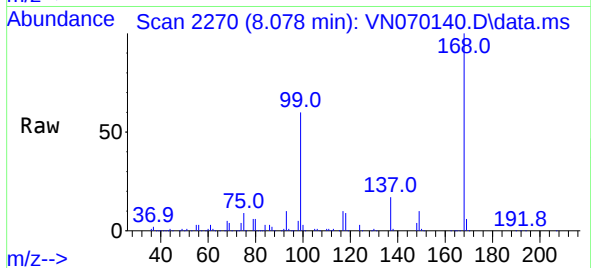
70 0.0 7.9 11.9#



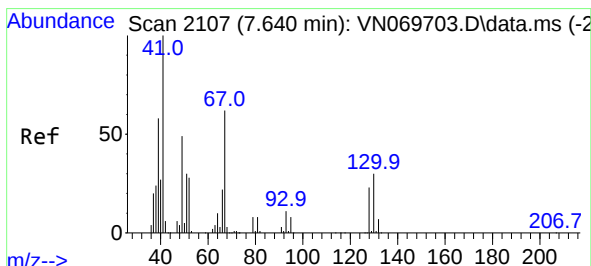
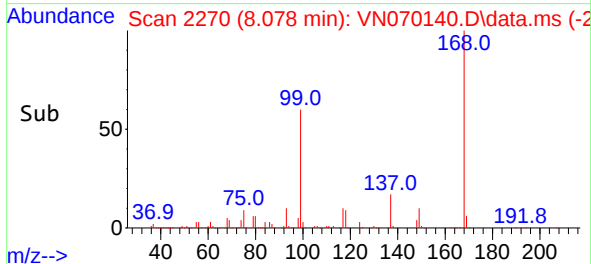
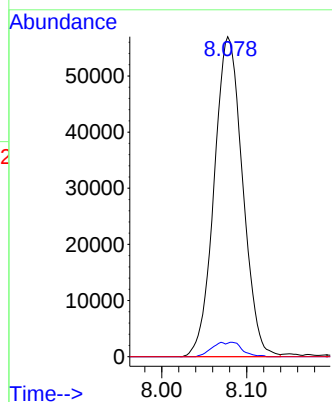


#38
Carbon Tetrachloride
Concen: 5.808 ug/l
RT: 8.078 min Scan# 2132
Delta R.T. -0.129 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Instrument :
MSVOA_N
ClientSampleId :

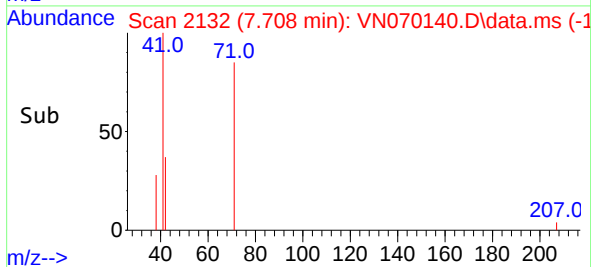
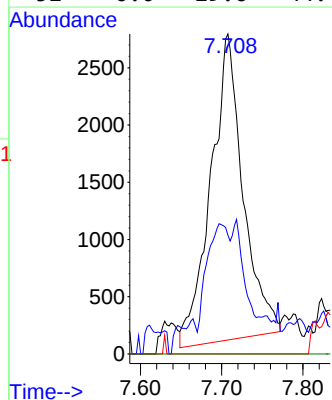
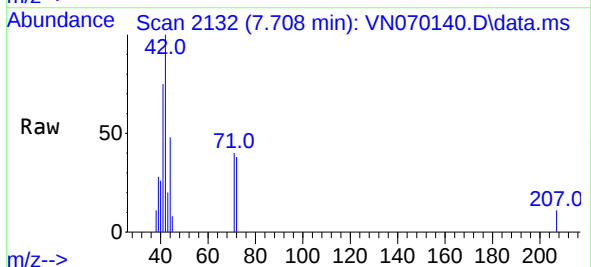


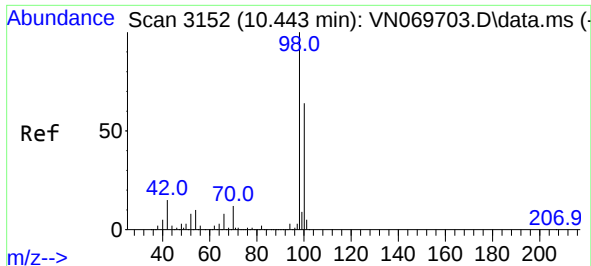
Tgt Ion:117 Resp: 132614
Ion Ratio Lower Upper
117 100
119 4.2 76.1 114.1#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 0.454 ug/l
RT: 7.708 min Scan# 2132
Delta R.T. 0.068 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Tgt Ion: 41 Resp: 7379
Ion Ratio Lower Upper
41 100
39 23.7 48.1 72.1#
67 0.0 68.3 102.5#
52 0.0 29.6 44.4#

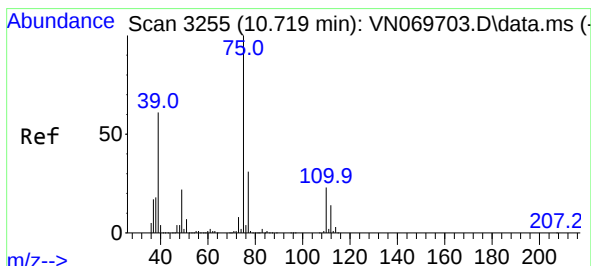
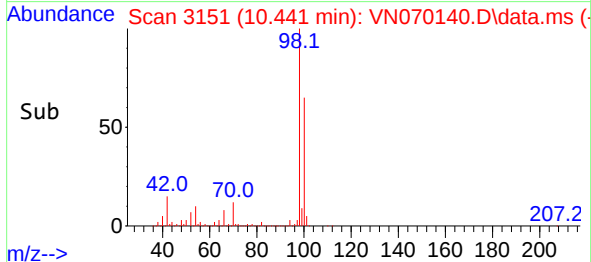
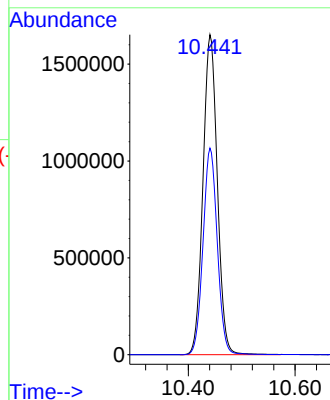
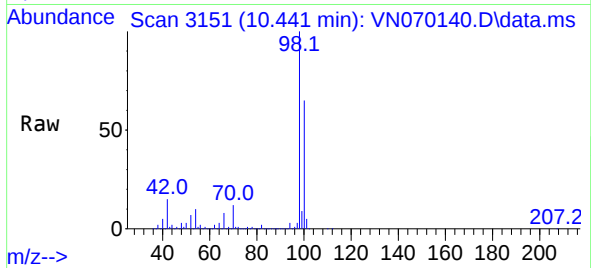




#50
Toluene-d8
Concen: 50.005 ug/l
RT: 10.441 min Scan# 3152
Delta R.T. -0.002 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

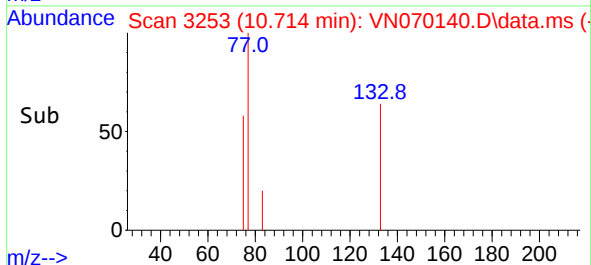
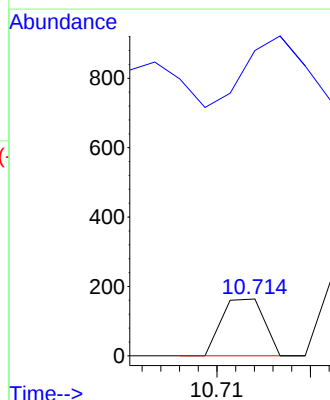
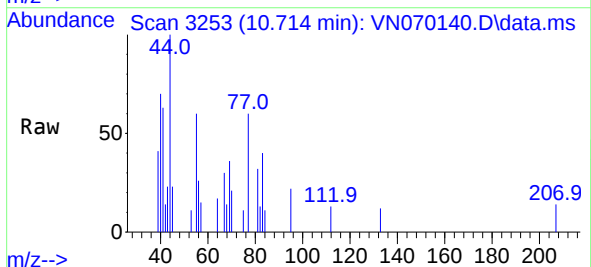
Instrument :
MSVOA_N
ClientSampleId :

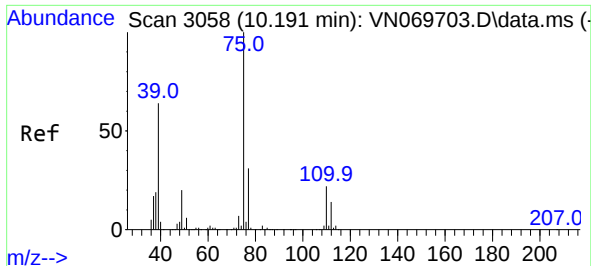
Tgt Ion: 98 Resp: 3076386
Ion Ratio Lower Upper
98 100
100 64.2 50.4 75.6



#53
t-1,3-Dichloropropene
Concen: 2.796 ug/l
RT: 10.714 min Scan# 3253
Delta R.T. -0.005 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

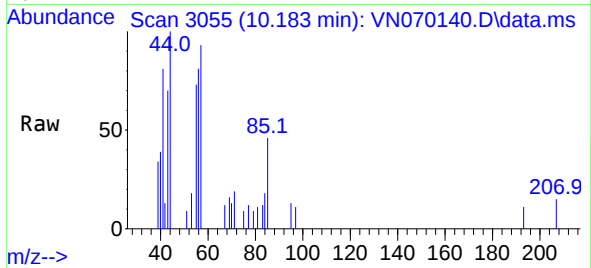
Tgt Ion: 75 Resp: 52
Ion Ratio Lower Upper
75 100
77 50.0 25.6 38.4#



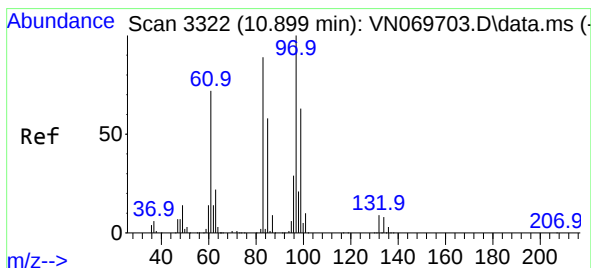
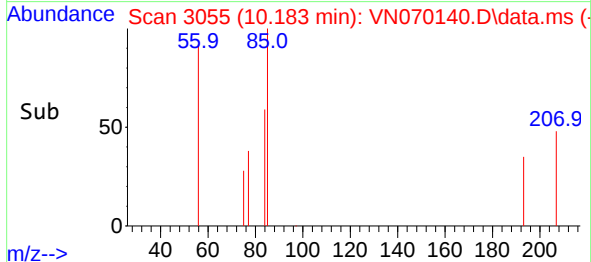
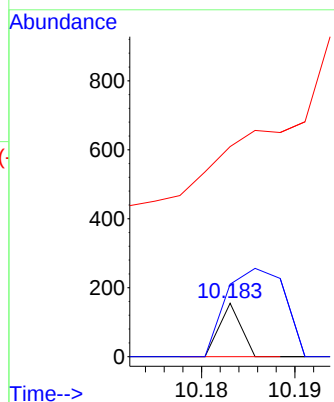


#54
cis-1,3-Dichloropropene
Concen: 1.999 ug/l
RT: 10.183 min Scan# 3058
Delta R.T. -0.008 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Instrument :
MSVOA_N
ClientSampleId :

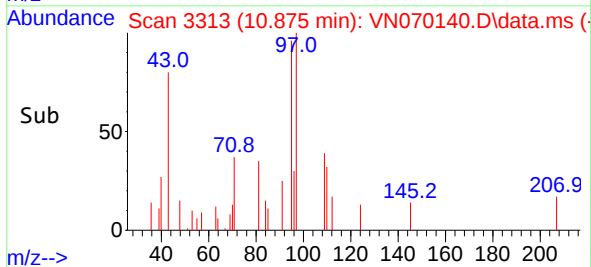
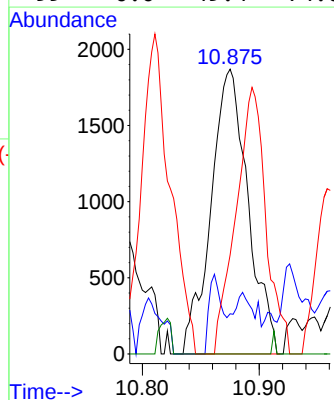
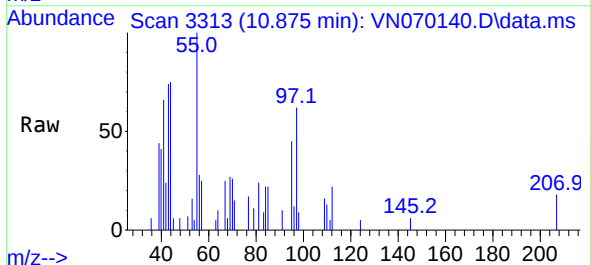


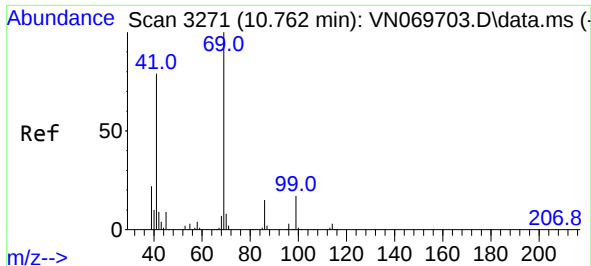
Tgt Ion: 75 Resp: 25
Ion Ratio Lower Upper
75 100
77 135.5 26.4 39.6#
39 91.6 42.5 63.7#



#55
1,1,2-Trichloroethane
Concen: 0.235 ug/l
RT: 10.875 min Scan# 3313
Delta R.T. -0.024 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Tgt Ion: 97 Resp: 4113
Ion Ratio Lower Upper
97 100
83 14.1 67.8 101.6#
85 20.5 45.4 68.2#
99 0.0 49.4 74.0#

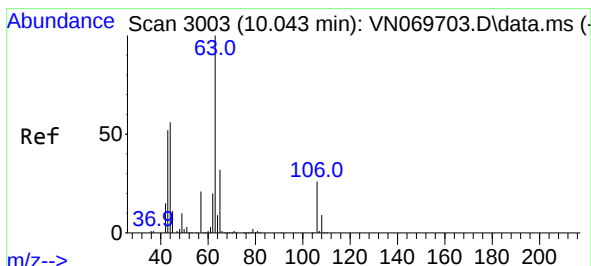
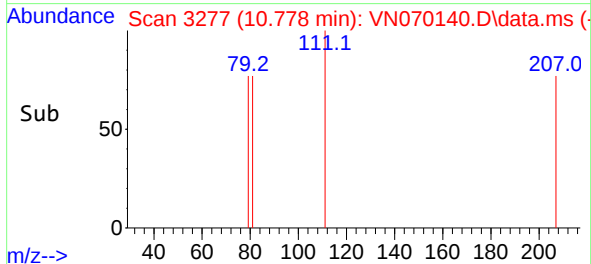
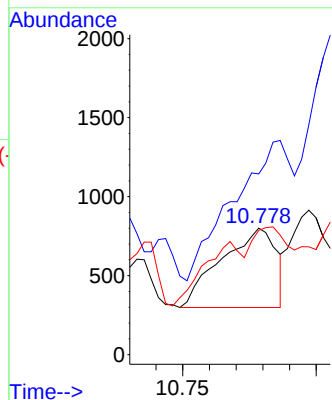
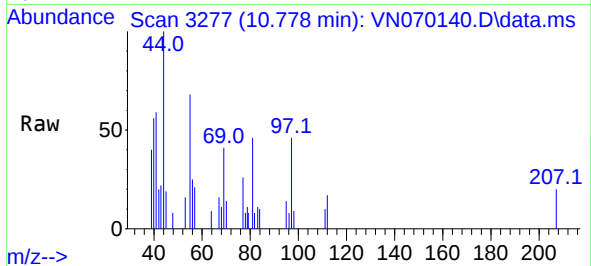




#56
Ethyl methacrylate
Concen: 2.300 ug/l
RT: 10.778 min Scan# 31
Delta R.T. 0.016 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

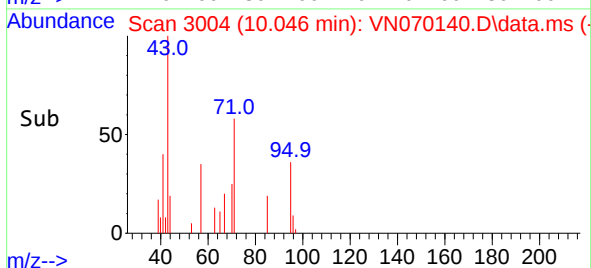
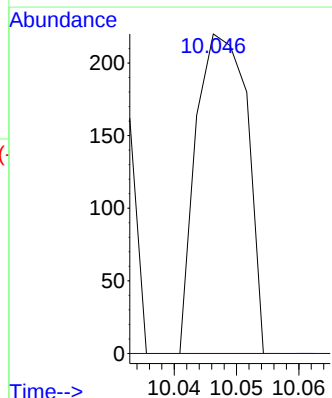
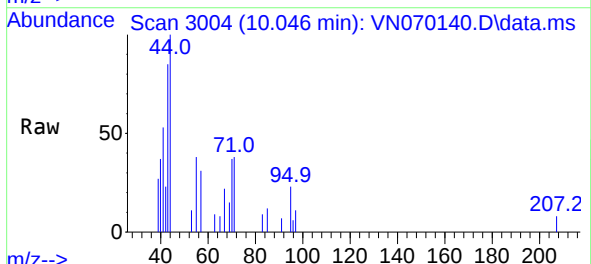
Instrument :
MSVOA_N
ClientSampleId :

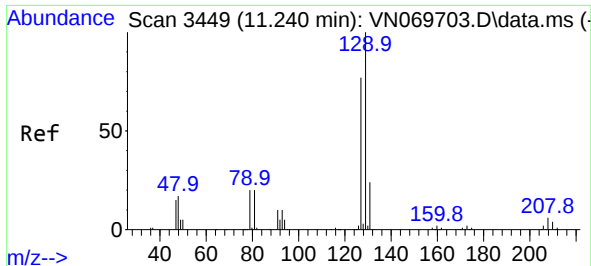
Tgt Ion: 69 Resp: 716
Ion Ratio Lower Upper
69 100
41 187.8 51.4 77.0#
39 30.6 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 18.402 ug/l
RT: 10.046 min Scan# 3004
Delta R.T. 0.003 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Tgt Ion: 63 Resp: 125
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

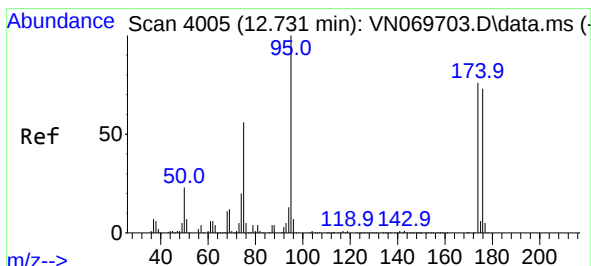
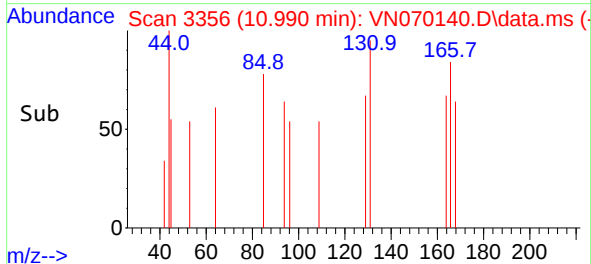
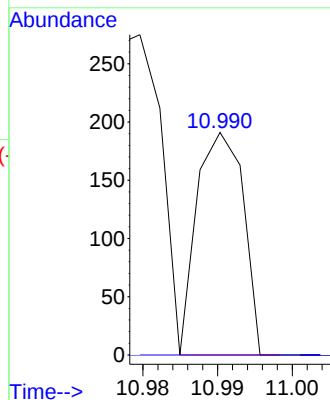
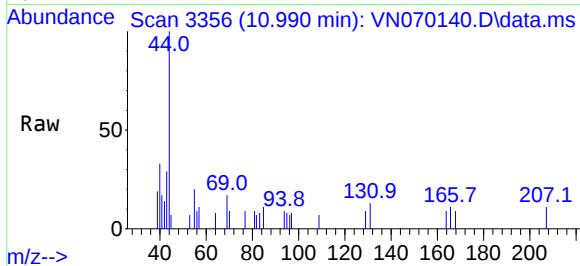




#60
Dibromochloromethane
Concen: 2.380 ug/l
RT: 10.990 min Scan# 31
Delta R.T. -0.250 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

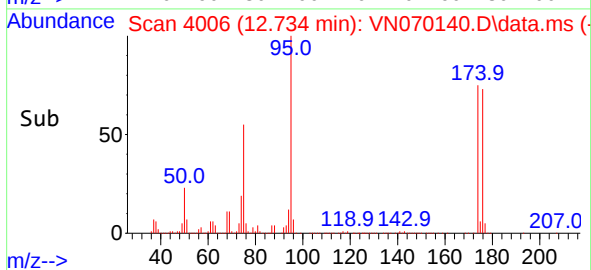
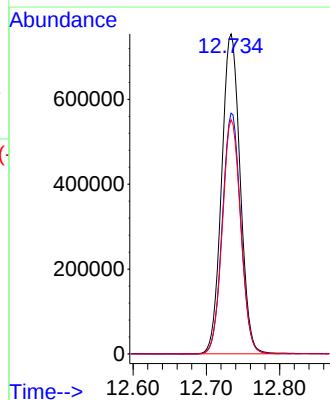
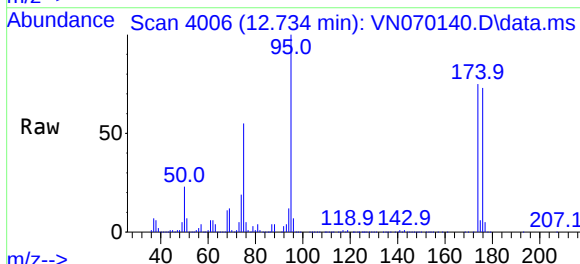
Instrument :
MSVOA_N
ClientSampleId :

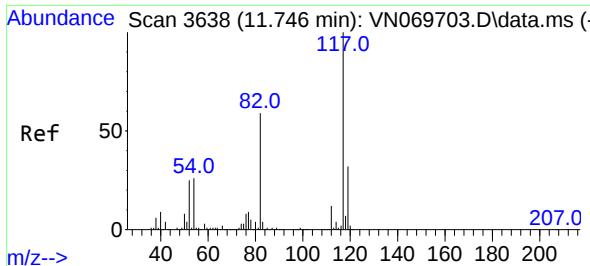
Tgt Ion:129 Resp: 83
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 59.335 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

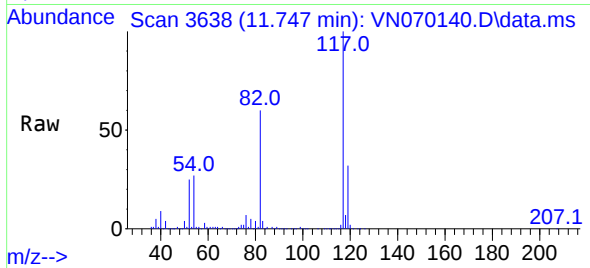
Tgt Ion: 95 Resp: 1322464
Ion Ratio Lower Upper
95 100
174 74.9 0.0 187.2
176 72.6 0.0 181.4



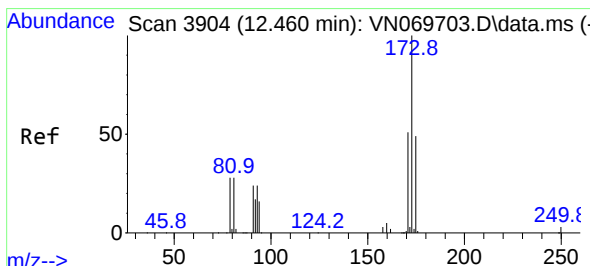
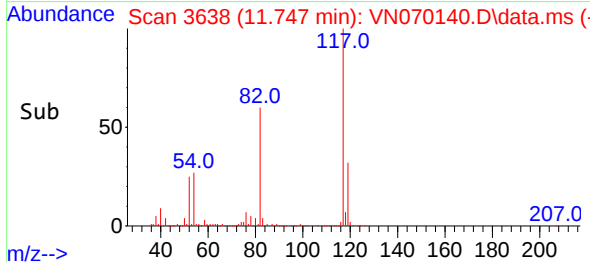
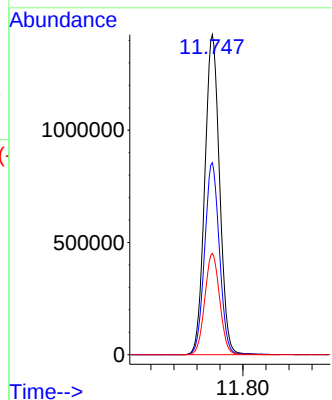


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 30
Delta R.T. 0.001 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Instrument :
MSVOA_N
ClientSampleId :

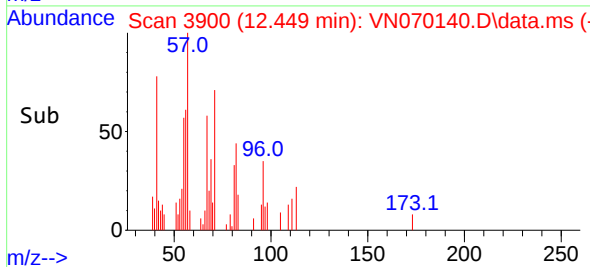
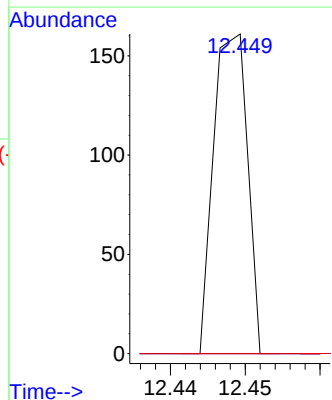
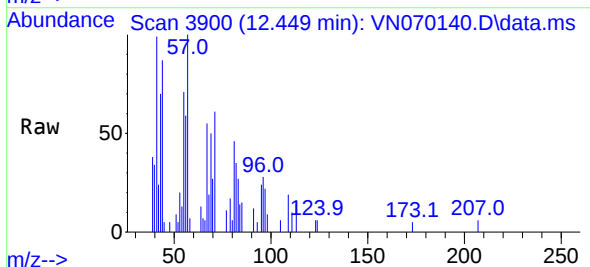


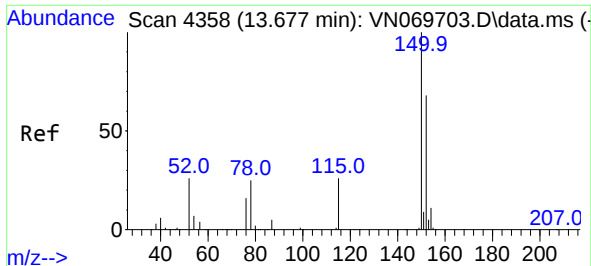
Tgt Ion:117 Resp: 2549394
Ion Ratio Lower Upper
117 100
82 60.0 42.4 63.6
119 31.7 25.4 38.2



#71
Bromoform
Concen: 2.734 ug/l
RT: 12.449 min Scan# 3900
Delta R.T. -0.011 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

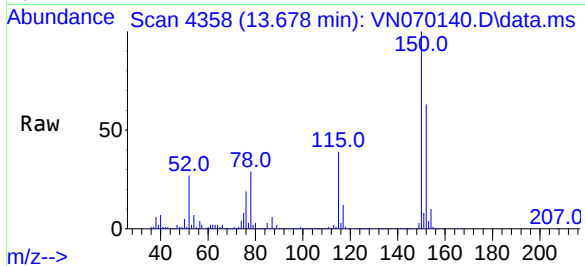
Tgt Ion:173 Resp: 51
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



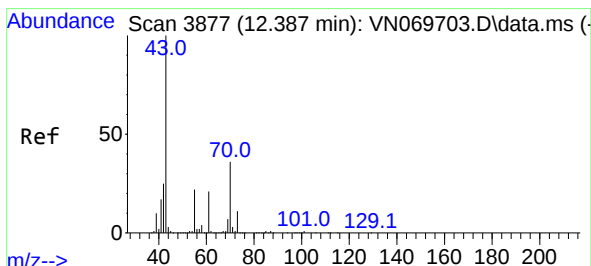
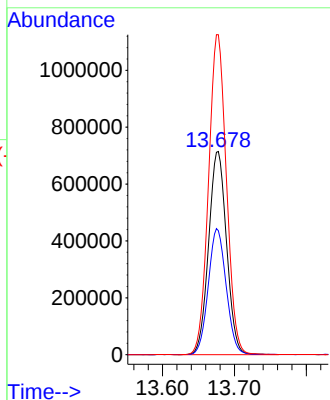
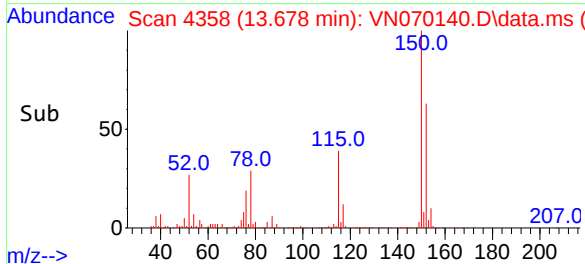


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

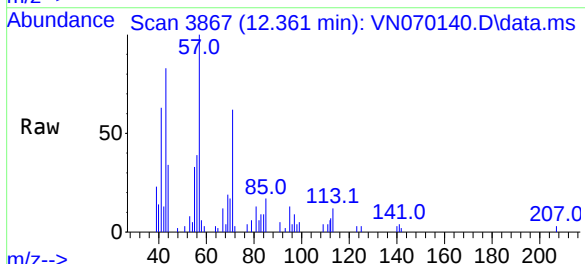
Instrument :
MSVOA_N
ClientSampleId :



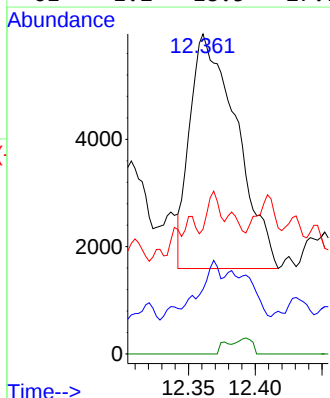
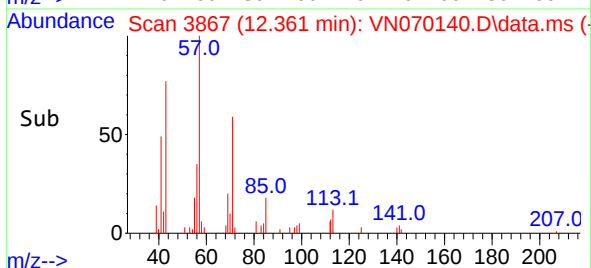
Tgt Ion:152 Resp: 1237983
Ion Ratio Lower Upper
152 100
115 61.8 27.5 82.5
150 156.9 0.0 344.4

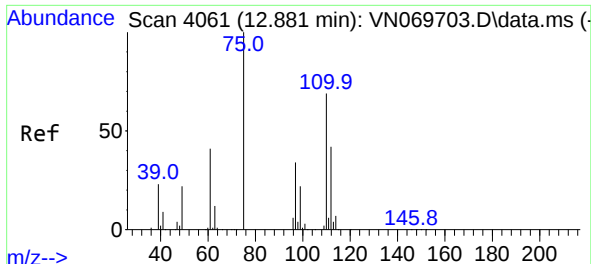


#74
N-ethyl acetate
Concen: 0.218 ug/l
RT: 12.361 min Scan# 3867
Delta R.T. -0.027 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14



Tgt Ion: 43 Resp: 10608
Ion Ratio Lower Upper
43 100
70 8.3 33.4 50.0#
55 4.9 19.3 28.9#
61 1.2 18.5 27.7#

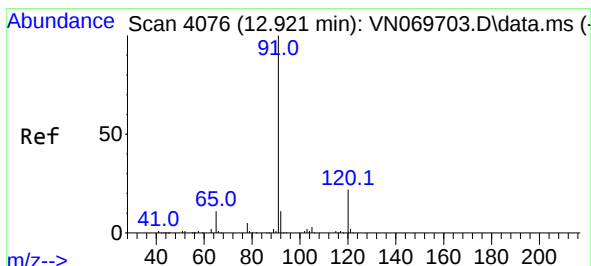
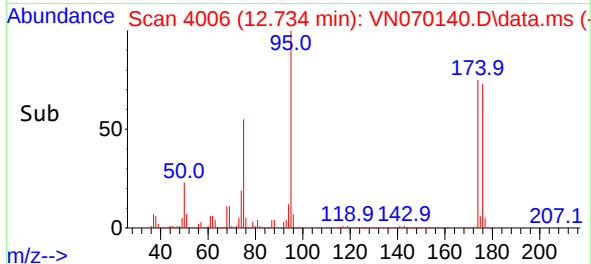
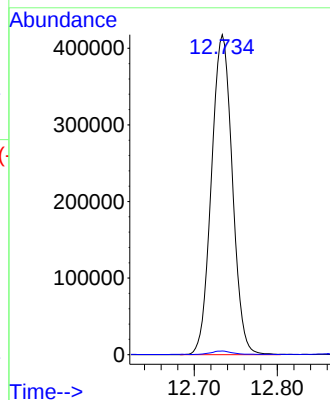
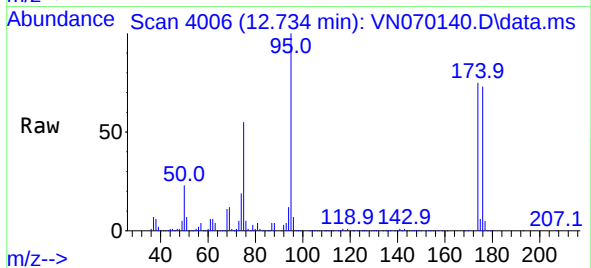




#76
1,2,3-Trichloropropane
Concen: 20.562 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

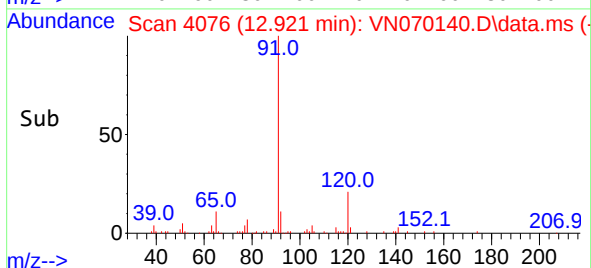
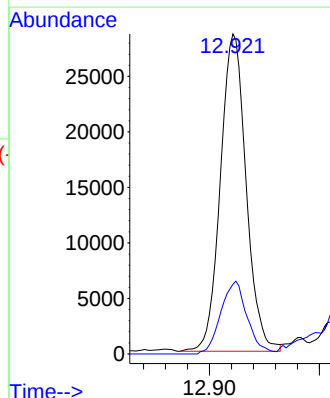
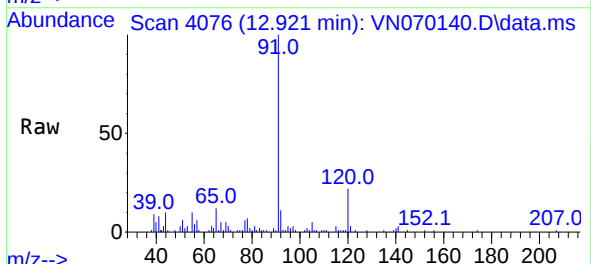
Instrument :
MSVOA_N
ClientSampleId :

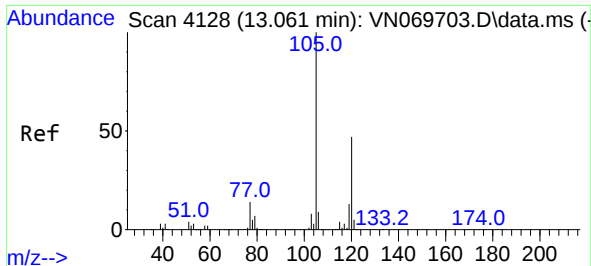
Tgt Ion: 75 Resp: 730006
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#78
n-propylbenzene
Concen: 0.379 ug/l
RT: 12.921 min Scan# 4076
Delta R.T. 0.000 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Tgt Ion: 91 Resp: 46456
Ion Ratio Lower Upper
91 100
120 23.5 11.9 35.9

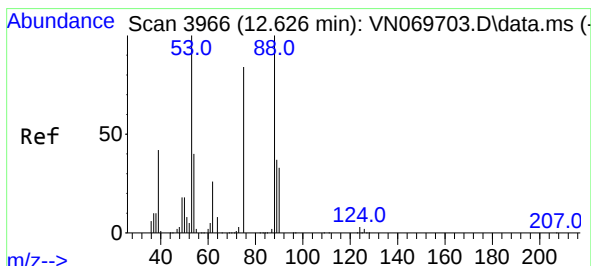
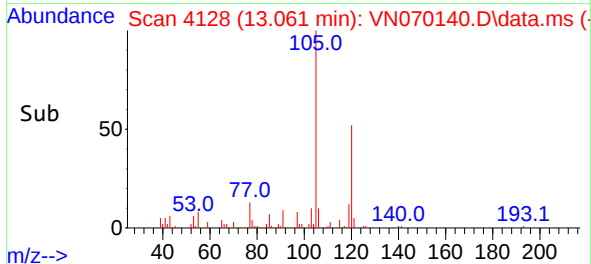
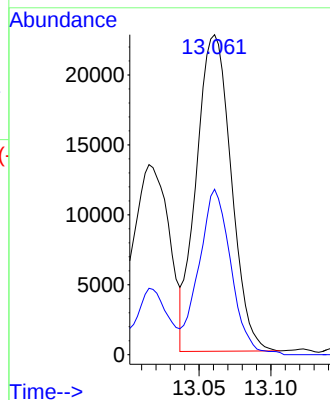
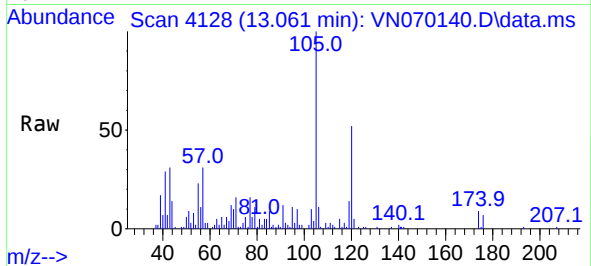




#80
1,3,5-Trimethylbenzene
Concen: 0.430 ug/l
RT: 13.061 min Scan# 4128
Delta R.T. 0.000 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

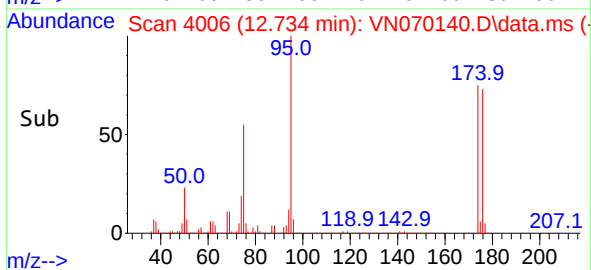
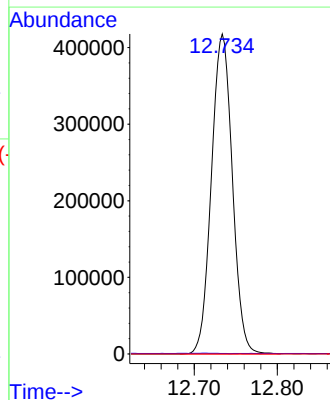
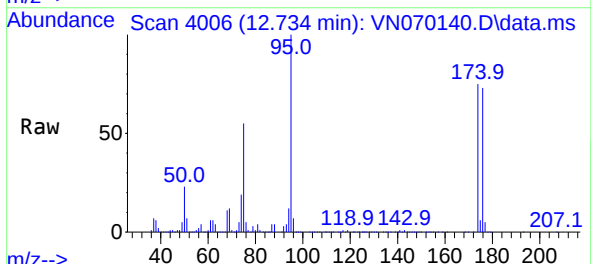
Instrument :
MSVOA_N
ClientSampleId :

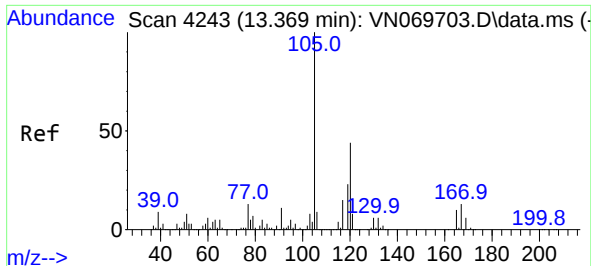
Tgt Ion:105 Resp: 38124
Ion Ratio Lower Upper
105 100
120 48.1 24.6 73.6



#81
trans-1,4-Dichloro-2-butene
Concen: 65.892 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Tgt Ion: 75 Resp: 730006
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#

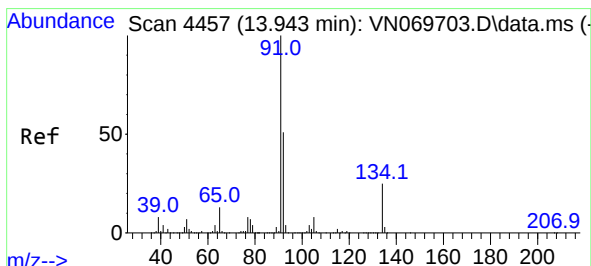
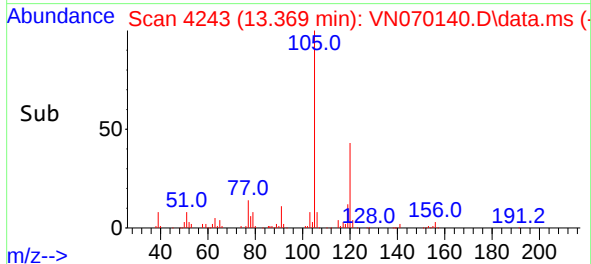
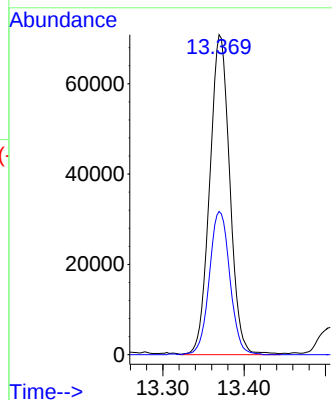
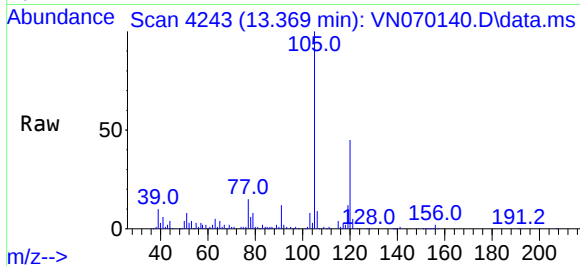




#84
1,2,4-Trimethylbenzene
Concen: 1.441 ug/l
RT: 13.369 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

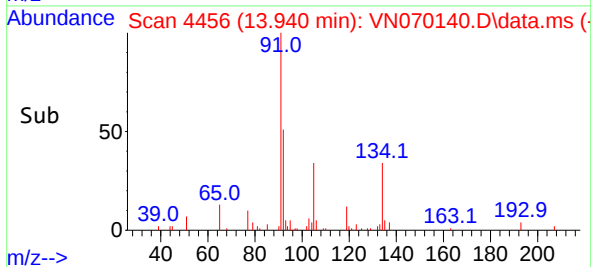
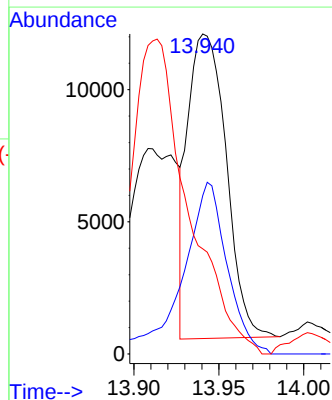
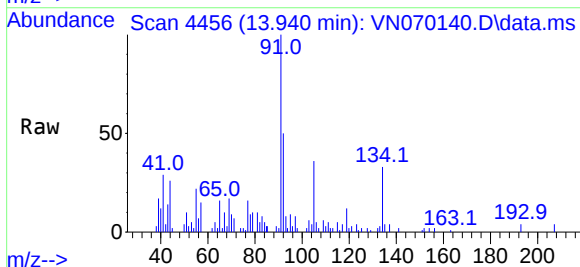
Instrument :
MSVOA_N
ClientSampleId :

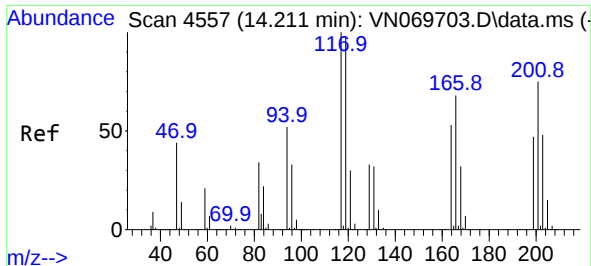
Tgt Ion:105 Resp: 121686
Ion Ratio Lower Upper
105 100
120 45.7 22.8 68.4



#89
n-Butylbenzene
Concen: 0.267 ug/l
RT: 13.940 min Scan# 4456
Delta R.T. -0.002 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

Tgt Ion: 91 Resp: 18017
Ion Ratio Lower Upper
91 100
92 66.1 25.4 76.0
134 0.0 13.6 40.8#

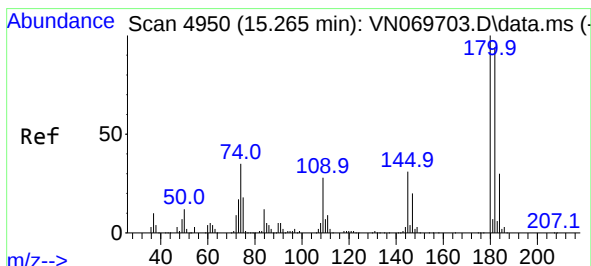
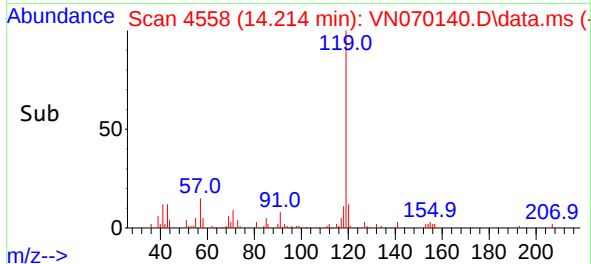
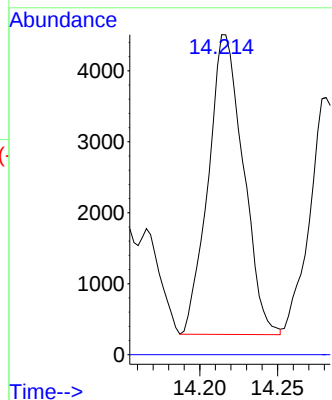
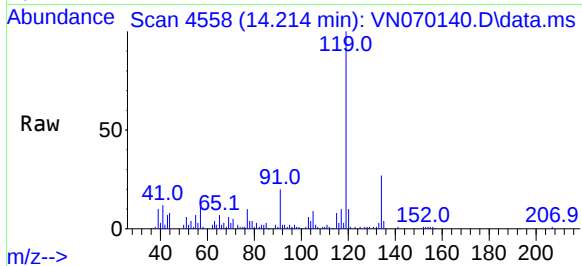




#90
Hexachloroethane
Concen: 0.452 ug/l
RT: 14.214 min Scan# 4557
Delta R.T. 0.003 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

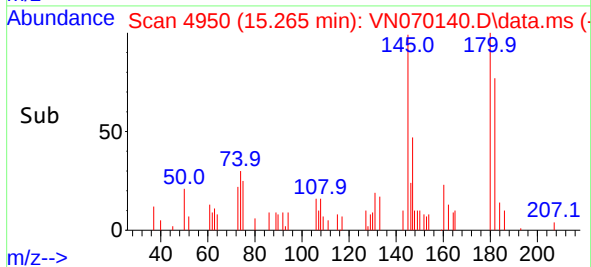
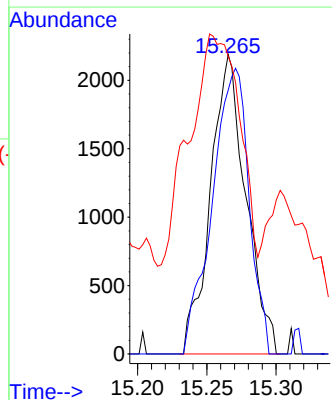
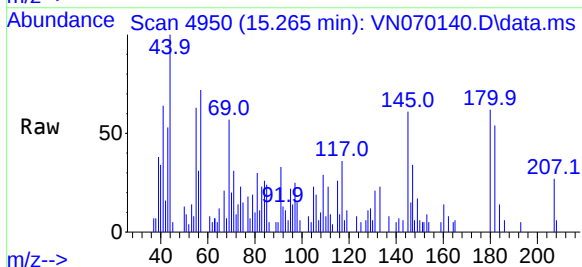
Instrument :
MSVOA_N
ClientSampleId :

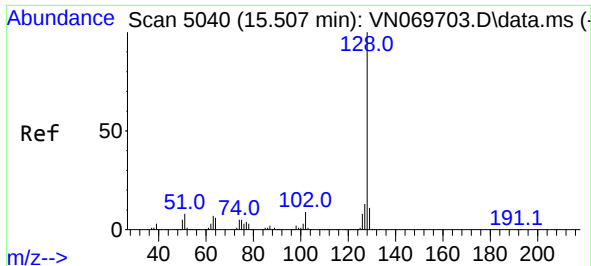
Tgt Ion:117 Resp: 6609
Ion Ratio Lower Upper
117 100
201 0.0 43.9 131.6#



#93
1,2,4-Trichlorobenzene
Concen: 3.059 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

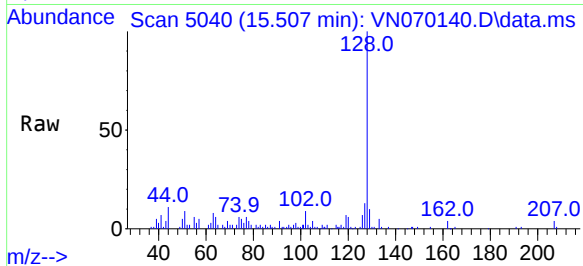
Tgt Ion:180 Resp: 3897
Ion Ratio Lower Upper
180 100
182 99.1 48.3 144.9
145 107.7 14.5 43.5#



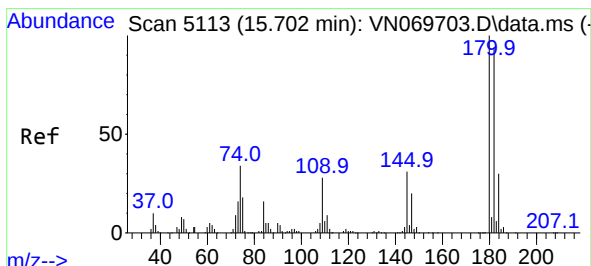
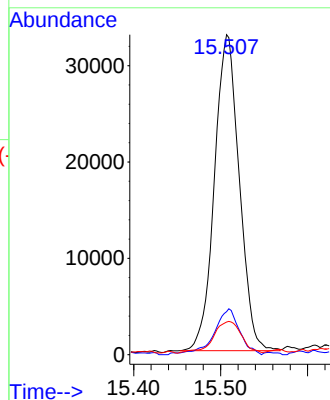
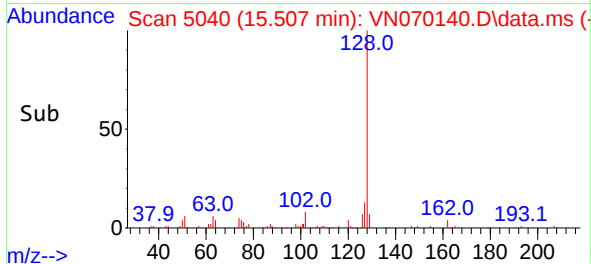


#95
Naphthalene
Concen: 4.974 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14

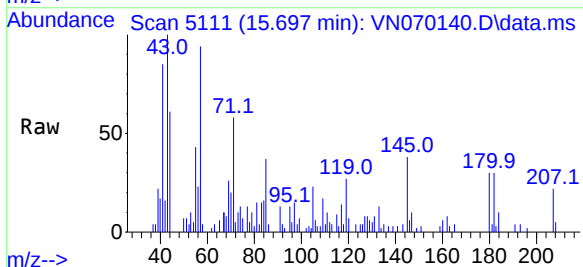
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 65008
Ion Ratio Lower Upper
128 100
127 14.8 10.5 15.7
129 11.4 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 2.657 ug/l
RT: 15.697 min Scan# 5111
Delta R.T. -0.005 min
Lab File: VN070140.D
Acq: 16 Dec 2021 16:14



Tgt Ion:180 Resp: 4613
Ion Ratio Lower Upper
180 100
182 91.3 47.4 142.2
145 111.4 15.0 45.1#

