

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120621\
 Data File : VN069793.D
 Acq On : 6 Dec 2021 19:19
 Operator : JC/MD
 Sample : PB141160TB
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 07 03:50:17 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)

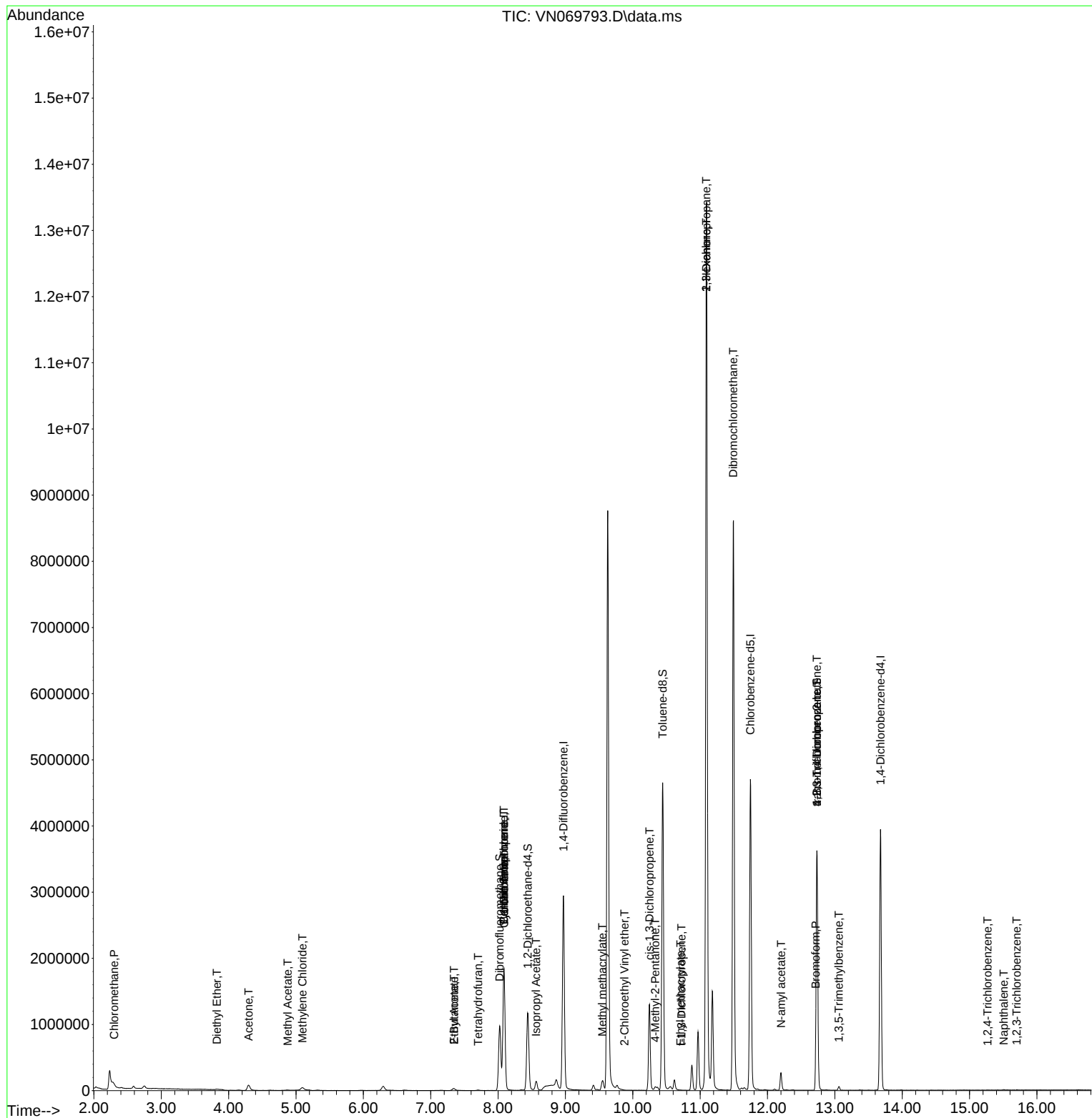
Internal Standards						
1) Pentafluorobenzene	8.088	168	1363918	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	2443021	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	2614536	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	1025693	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1016432	48.266	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	96.540%		
35) Dibromofluoromethane	8.024	113	706911	46.196	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	92.400%		
50) Toluene-d8	10.443	98	3143870	51.166	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	102.340%		
62) 4-Bromofluorobenzene	12.733	95	1226465	55.097	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	110.200%		
Target Compounds						Qvalue
3) Chloromethane	2.301	50	4813	0.241	ug/l #	75
8) Diethyl Ether	3.824	74	2559	0.276	ug/l #	50
16) Acetone	4.296	43	155130	12.246	ug/l	95
18) Methyl Acetate	4.875	43	9078	0.237	ug/l #	70
20) Methylene Chloride	5.095	84	25682	1.525	ug/l	90
25) 2-Butanone	7.348	43	27913	1.622	ug/l #	89
29) Tetrahydrofuran	7.702	42	5780	0.553	ug/l #	62
31) Cyclohexane	8.091	56	37040	1.264	ug/l #	32
36) 1,1-Dichloropropene	8.088	75	115448	4.964	ug/l #	49
37) Ethyl Acetate	7.348	43	27913	0.806	ug/l #	70
38) Carbon Tetrachloride	8.088	117	139775	6.129	ug/l #	16
43) Isopropyl Acetate	8.566	43	158446	3.093	ug/l #	87
48) Methyl methacrylate	9.550	41	42697	1.786	ug/l #	8
51) 4-Methyl-2-Pentanone	10.333	43	29187	0.878	ug/l	100
53) t-1,3-Dichloropropene	10.725	75	59	2.796	ug/l #	32
54) cis-1,3-Dichloropropene	10.247	75	217793	8.986	ug/l #	70
56) Ethyl methacrylate	10.709	69	865	2.304	ug/l #	24
57) 1,3-Dichloropropane	11.092	76	133122	4.317	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.877	63	28	18.392	ug/l #	45
59) 2-Hexanone	11.092	43	2333476	92.827	ug/l #	47
60) Dibromochloromethane	11.492	129	1376	2.446	ug/l #	11
71) Bromoform	12.715	173	747	2.775	ug/l #	1
74) N-amyl acetate	12.200	43	95121	2.357	ug/l #	51
76) 1,2,3-Trichloropropane	12.733	75	689696	23.447	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.061	105	23540	0.320	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.733	75	689696	74.569	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.268	180	602	2.912	ug/l	92
95) Naphthalene	15.507	128	6232	4.100	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.700	180	540	2.467	ug/l #	80

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

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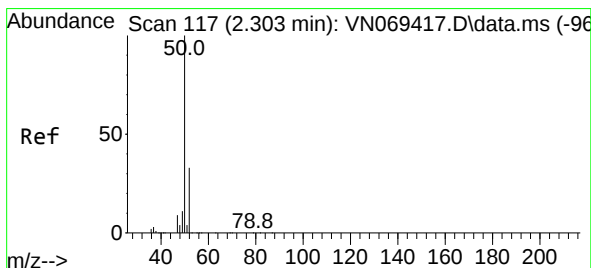
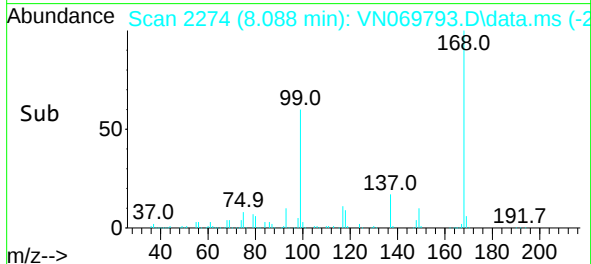
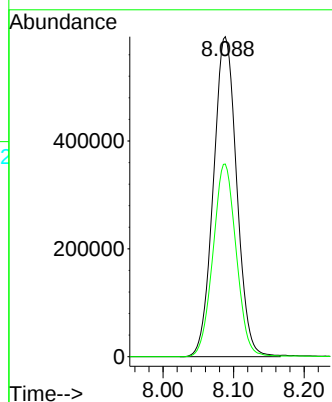
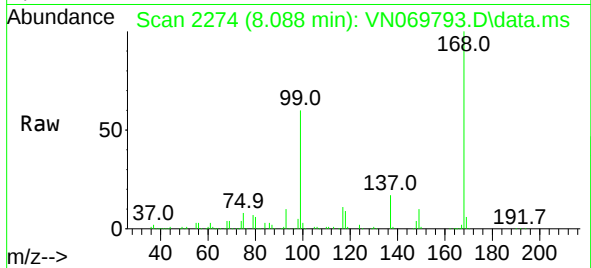




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

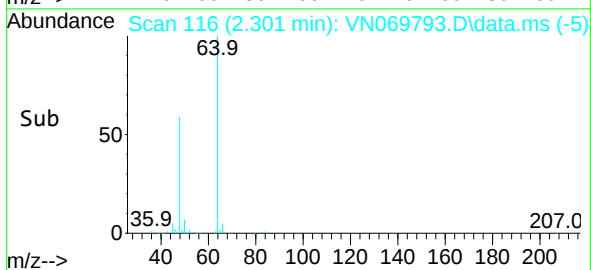
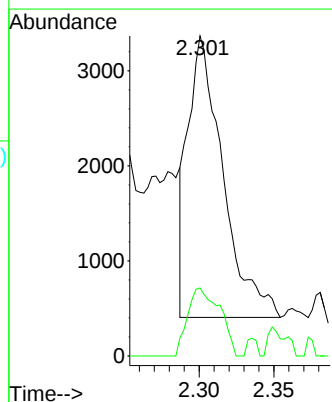
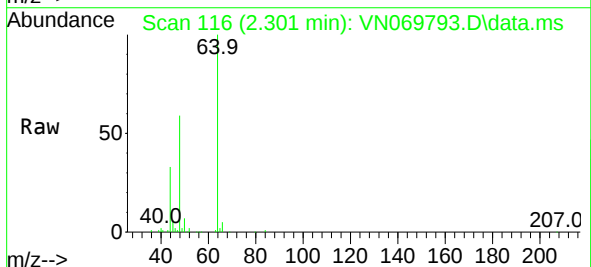
Instrument :
MSVOA_N
ClientSampleId :

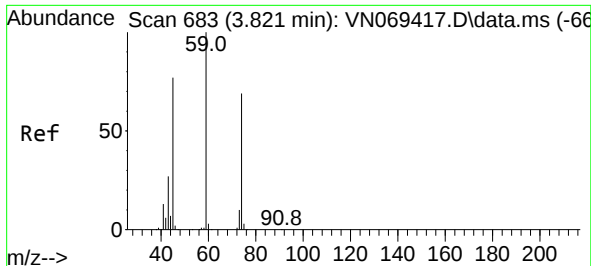
Tgt Ion:168 Resp: 1363918
Ion Ratio Lower Upper
168 100
99 60.2 41.3 61.9



#3
Chloromethane
Concen: 0.241 ug/l
RT: 2.301 min Scan# 116
Delta R.T. -0.003 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

Tgt Ion: 50 Resp: 4813
Ion Ratio Lower Upper
50 100
52 18.0 25.4 38.0#

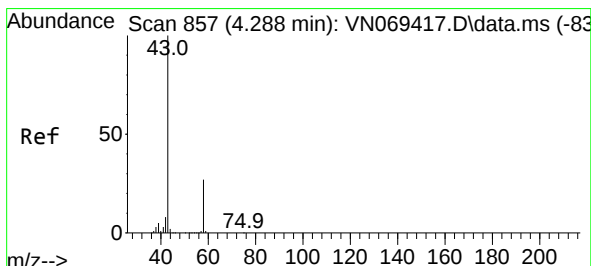
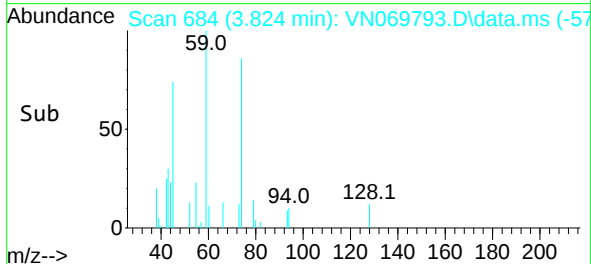
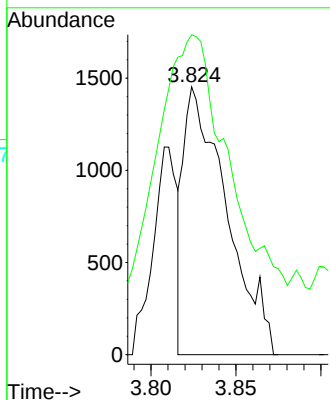
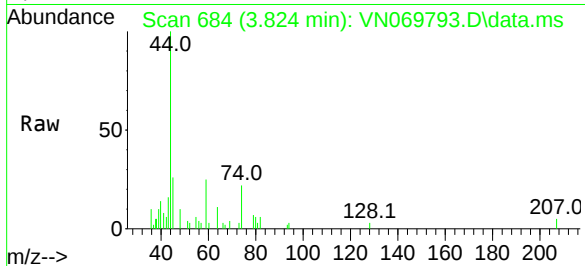




#8
Diethyl Ether
Concen: 0.276 ug/l
RT: 3.824 min Scan# 61
Delta R.T. 0.003 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

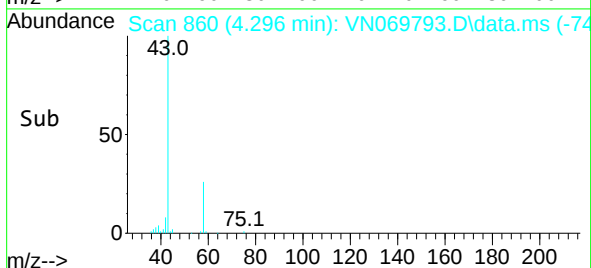
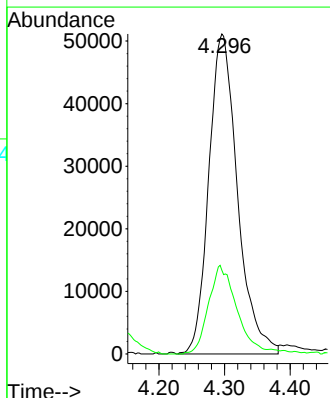
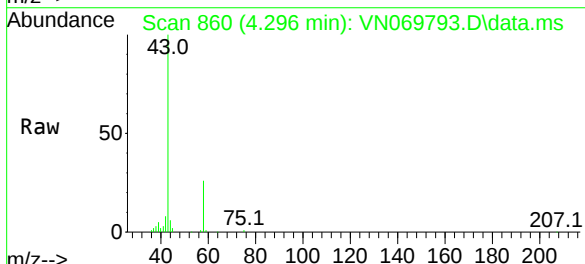
Instrument :
MSVOA_N
ClientSampleId :

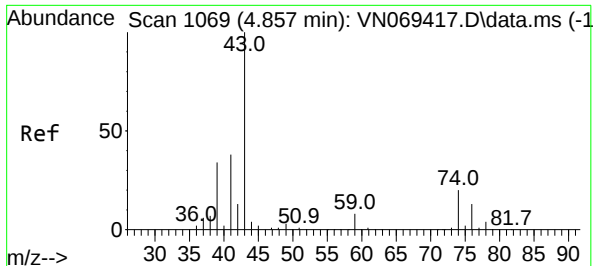
Tgt Ion: 74 Resp: 2559
Ion Ratio Lower Upper
74 100
45 142.6 47.0 141.2#



#16
Acetone
Concen: 12.246 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.005 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

Tgt Ion: 43 Resp: 155130
Ion Ratio Lower Upper
43 100
58 26.2 23.1 34.7

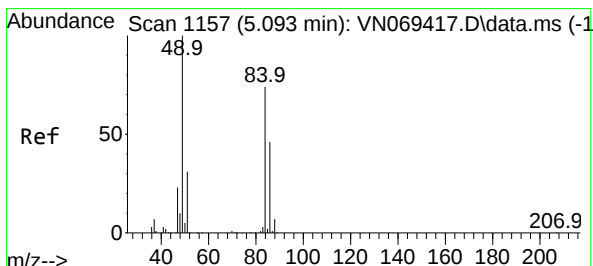
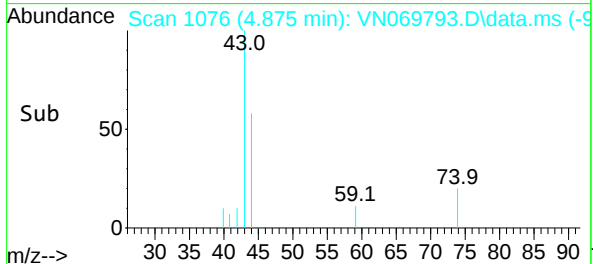
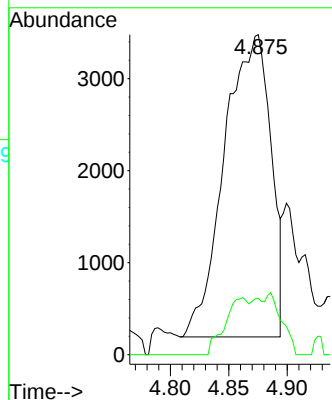
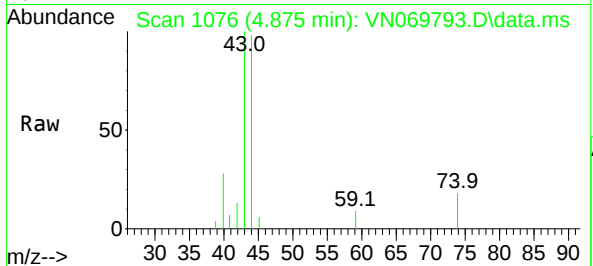




#18
Methyl Acetate
Concen: 0.237 ug/l
RT: 4.875 min Scan# 1069
Delta R.T. 0.019 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

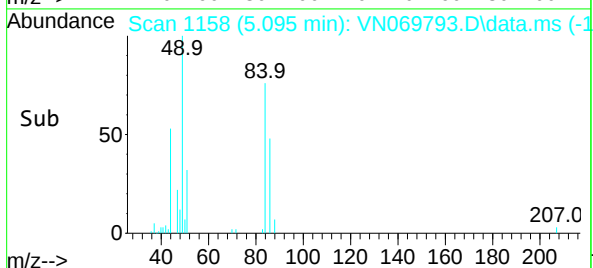
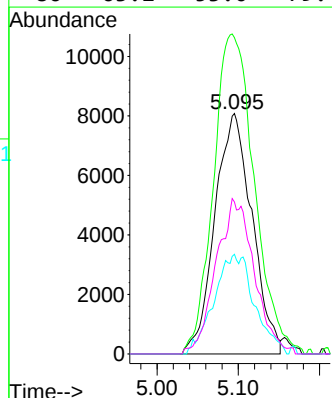
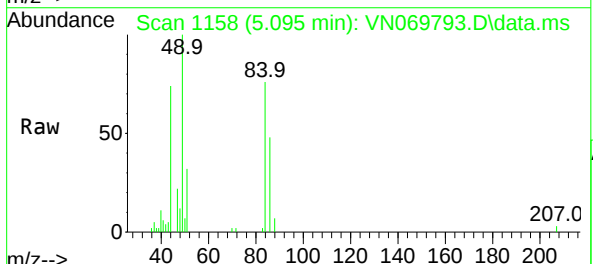
Instrument :
MSVOA_N
ClientSampleId :

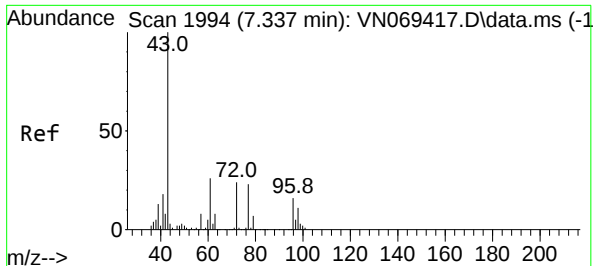
Tgt Ion: 43 Resp: 9078
Ion Ratio Lower Upper
43 100
74 9.7 19.4 29.2#



#20
Methylene Chloride
Concen: 1.525 ug/l
RT: 5.095 min Scan# 1158
Delta R.T. 0.003 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

Tgt Ion: 84 Resp: 25682
Ion Ratio Lower Upper
84 100
49 131.6 93.5 140.3
51 41.5 29.4 44.2
86 63.2 53.0 79.4





#25

2-Butanone

Concen: 1.622 ug/l

RT: 7.348 min Scan# 1994

Delta R.T. 0.011 min

Lab File: VN069793.D

Acq: 6 Dec 2021 19:19

Instrument :

MSVOA_N

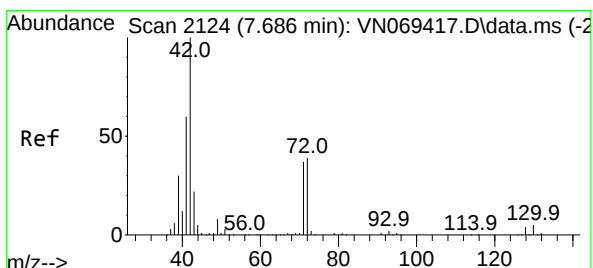
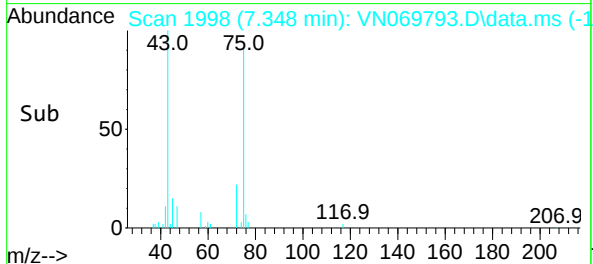
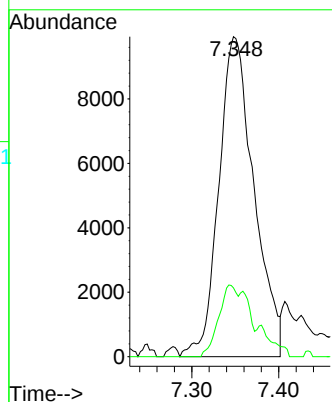
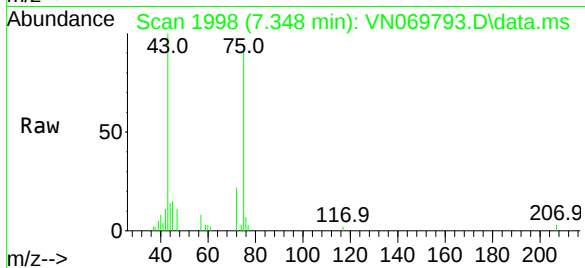
ClientSampleId :

Tgt Ion: 43 Resp: 27913

Ion Ratio Lower Upper

43 100

72 21.5 21.7 32.5#



#29

Tetrahydrofuran

Concen: 0.553 ug/l

RT: 7.702 min Scan# 2130

Delta R.T. 0.016 min

Lab File: VN069793.D

Acq: 6 Dec 2021 19:19

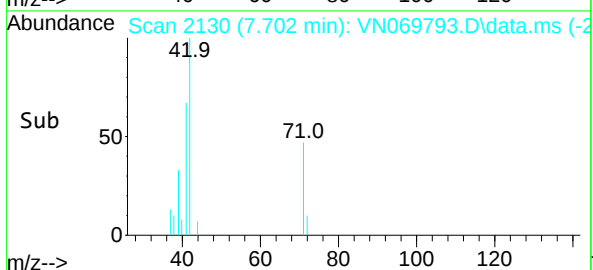
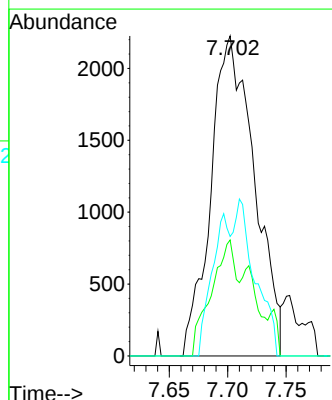
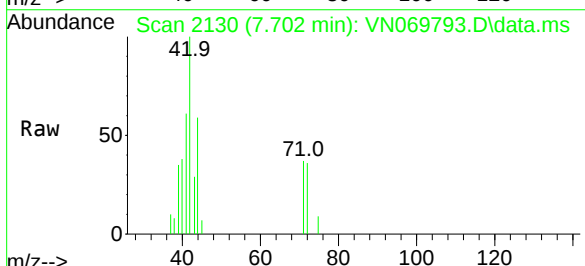
Tgt Ion: 42 Resp: 5780

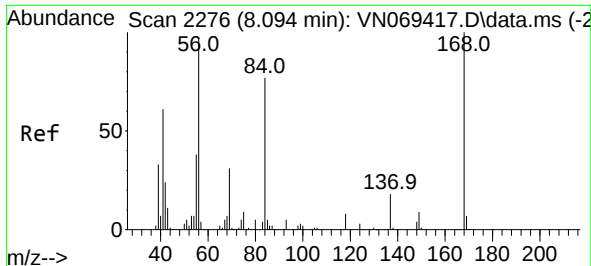
Ion Ratio Lower Upper

42 100

72 21.2 36.3 54.5#

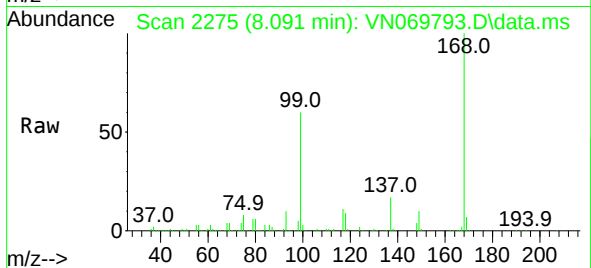
71 18.5 34.7 52.1#



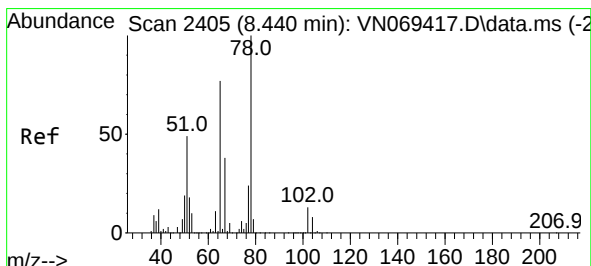
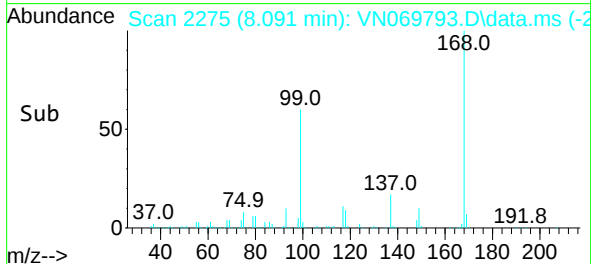
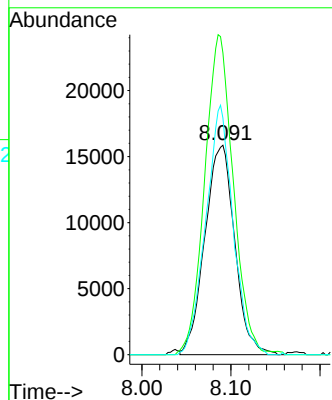


#31
Cyclohexane
Concen: 1.264 ug/l
RT: 8.091 min Scan# 21
Delta R.T. -0.003 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

Instrument :
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ClientSampleId :

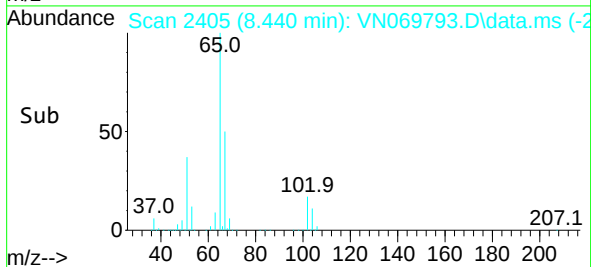
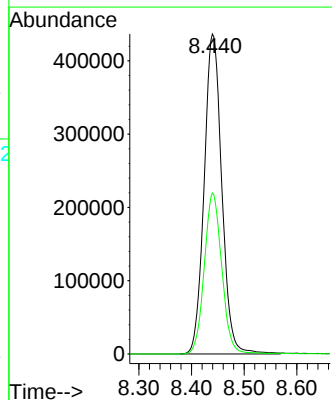
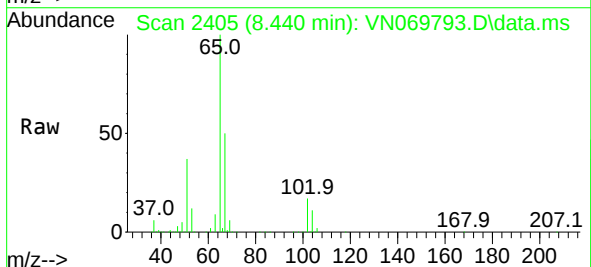


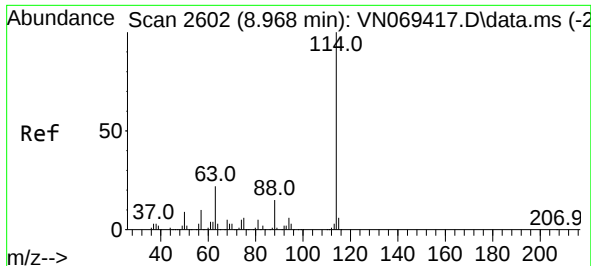
Tgt Ion: 56 Resp: 37040
Ion Ratio Lower Upper
56 100
69 142.7 27.1 40.7#
84 113.0 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 48.266 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

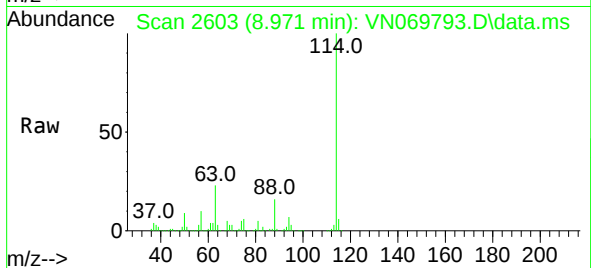
Tgt Ion: 65 Resp: 1016432
Ion Ratio Lower Upper
65 100
67 49.8 0.0 103.0



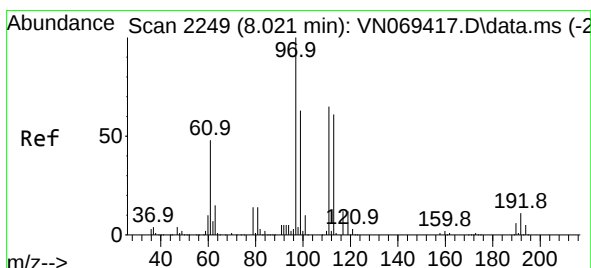
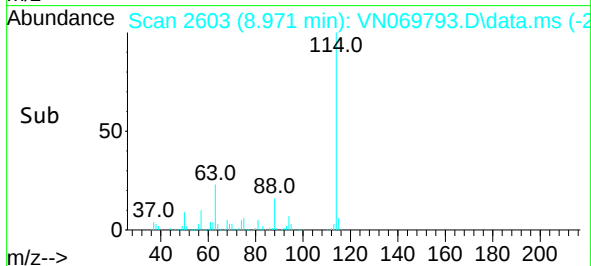
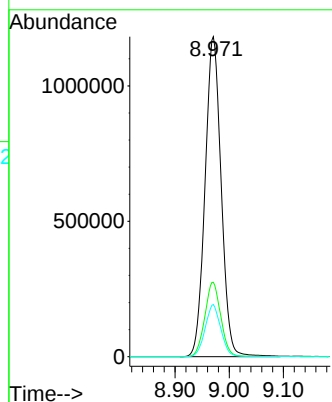


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 21
Delta R.T. 0.003 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

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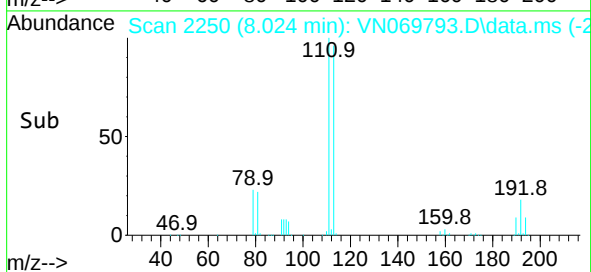
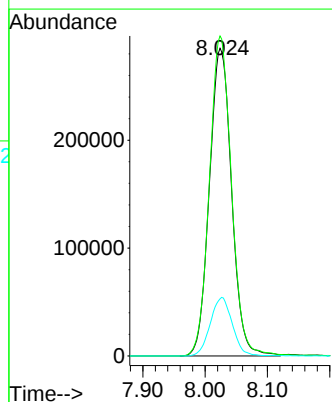
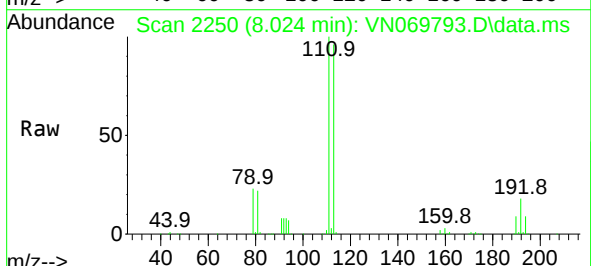


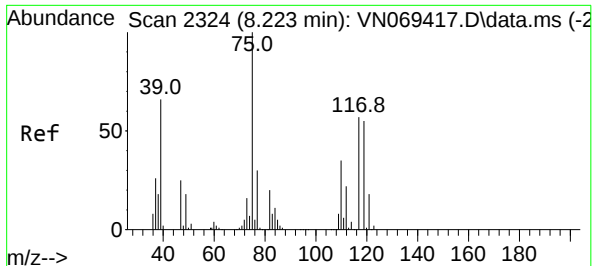
Tgt Ion:114 Resp: 2443021
Ion Ratio Lower Upper
114 100
63 23.3 0.0 37.8
88 16.3 0.0 27.4



#35
Dibromofluoromethane
Concen: 46.196 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

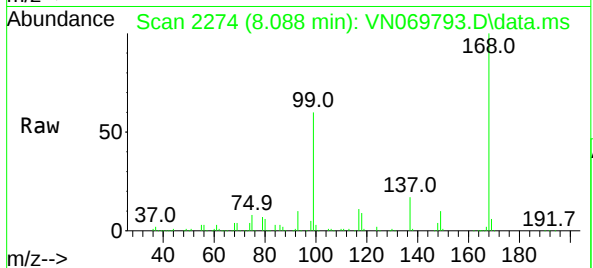
Tgt Ion:113 Resp: 706911
Ion Ratio Lower Upper
113 100
111 103.3 82.2 123.2
192 18.8 16.9 25.3



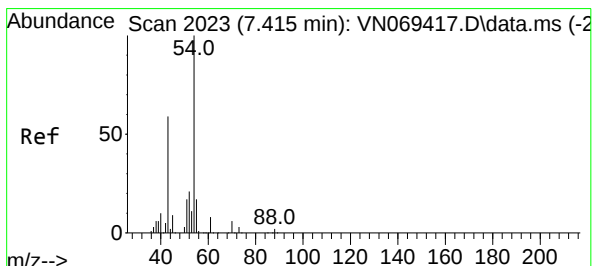
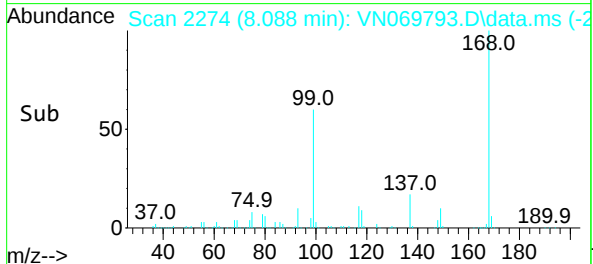
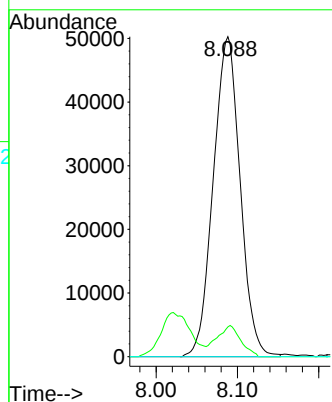


#36
1,1-Dichloropropene
Concen: 4.964 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.134 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

Instrument :
MSVOA_N
ClientSampleId :

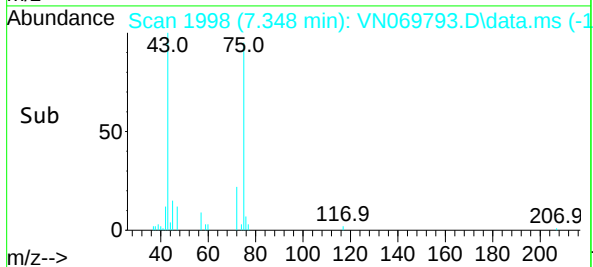
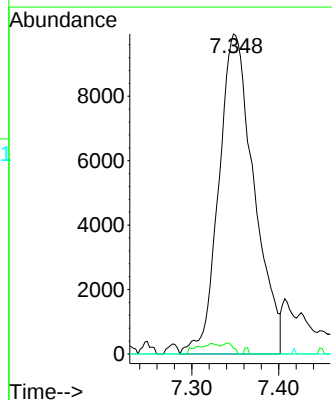
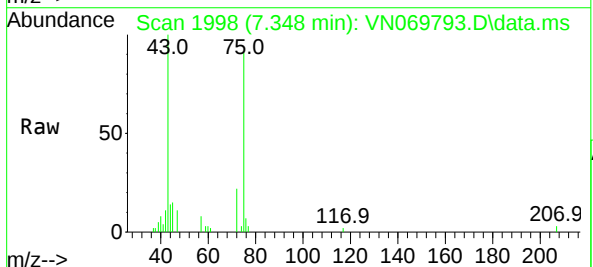


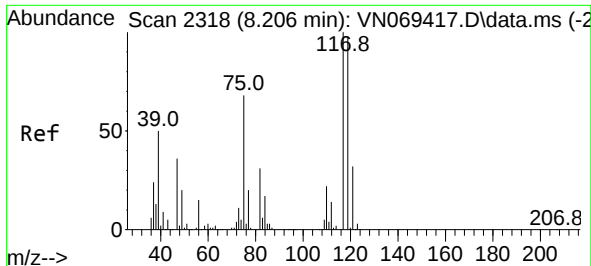
Tgt Ion: 75 Resp: 115448
Ion Ratio Lower Upper
75 100
110 8.7 18.4 55.2#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 0.806 ug/l
RT: 7.348 min Scan# 1998
Delta R.T. -0.067 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

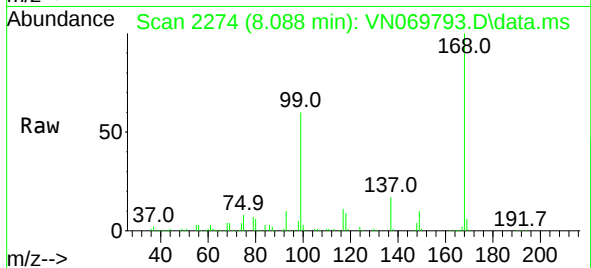
Tgt Ion: 43 Resp: 27913
Ion Ratio Lower Upper
43 100
61 0.9 11.5 17.3#
70 0.0 7.9 11.9#



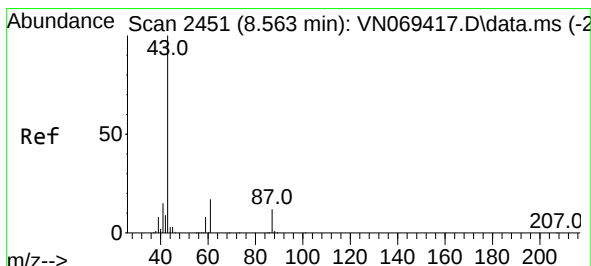
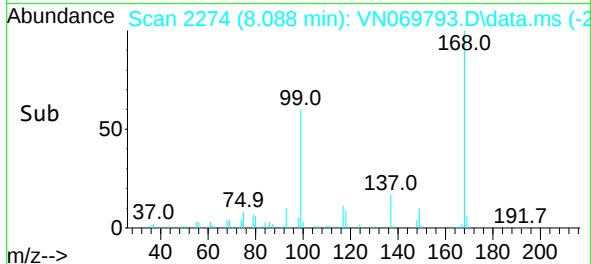
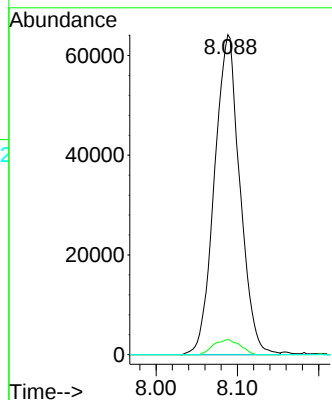


#38
Carbon Tetrachloride
Concen: 6.129 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.118 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

Instrument :
MSVOA_N
ClientSampleId :

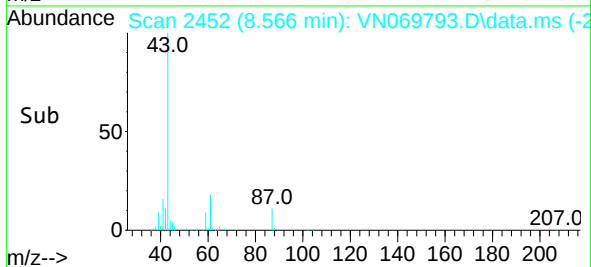
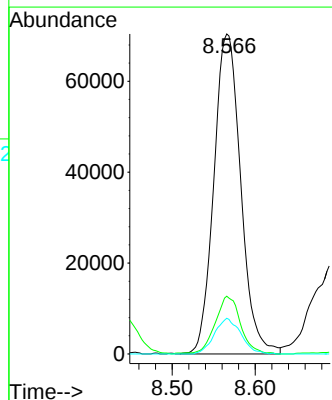
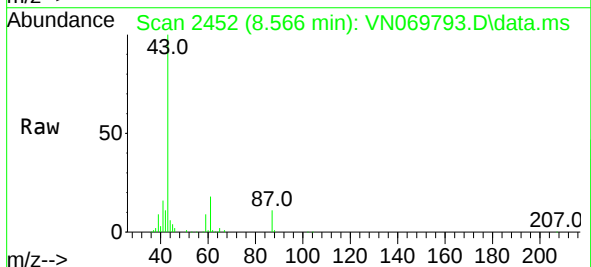


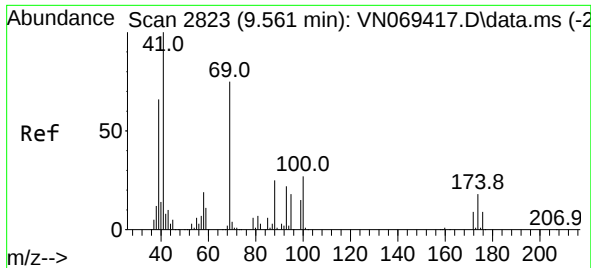
Tgt Ion:117 Resp: 139775
Ion Ratio Lower Upper
117 100
119 4.8 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 3.093 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. 0.003 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

Tgt Ion: 43 Resp: 158446
Ion Ratio Lower Upper
43 100
61 17.1 20.4 30.6#
87 10.9 11.2 16.8#

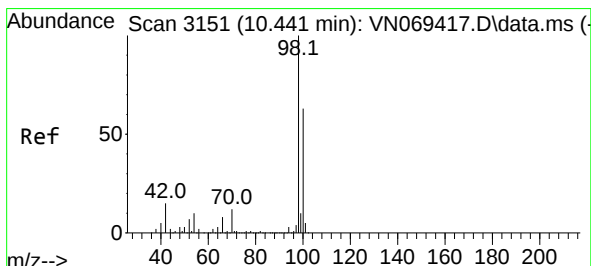
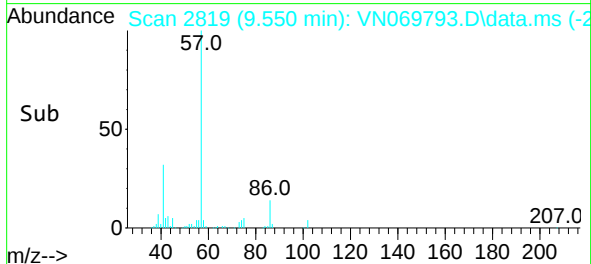
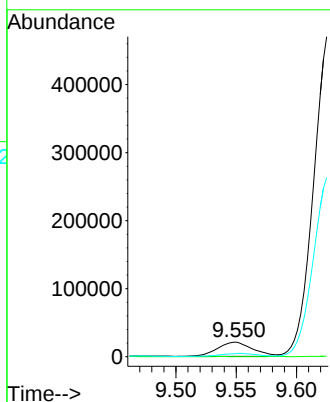
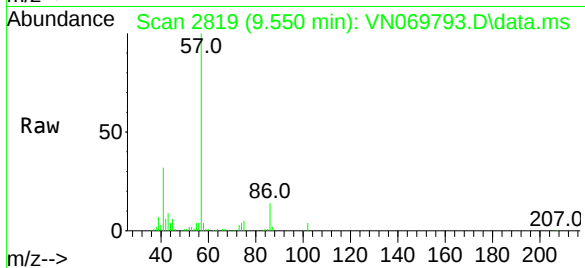




#48
Methyl methacrylate
Concen: 1.786 ug/l
RT: 9.550 min Scan# 21
Delta R.T. -0.011 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

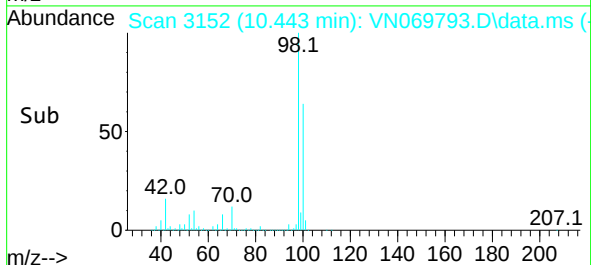
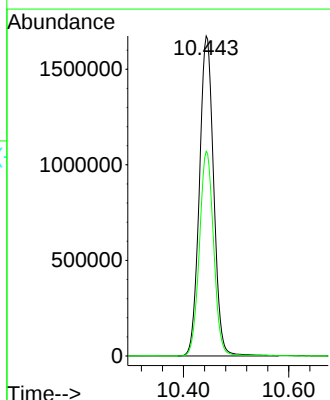
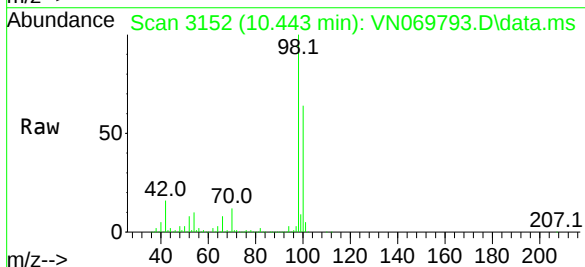
Instrument :
MSVOA_N
ClientSampleId :

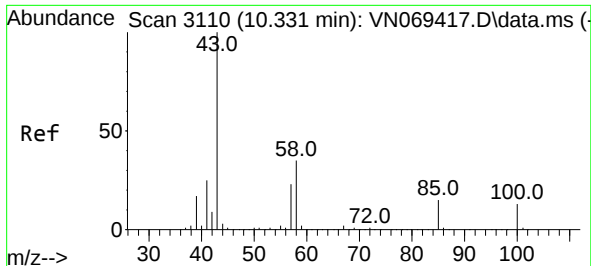
Tgt Ion: 41 Resp: 42697
Ion Ratio Lower Upper
41 100
69 0.3 72.4 108.6#
39 0.0 58.4 87.6#



#50
Toluene-d8
Concen: 51.166 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

Tgt Ion: 98 Resp: 3143870
Ion Ratio Lower Upper
98 100
100 63.7 50.4 75.6





#51

4-Methyl-2-Pentanone

Concen: 0.878 ug/l

RT: 10.333 min Scan# 3110

Delta R.T. 0.000 min

Lab File: VN069793.D

Acq: 6 Dec 2021 19:19

Instrument :

MSVOA_N

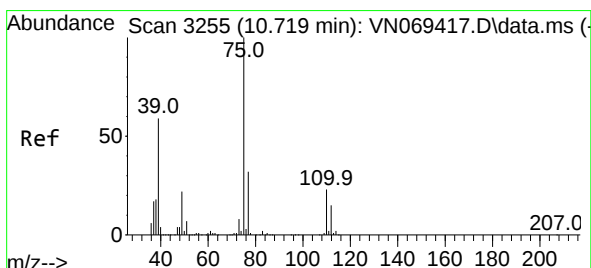
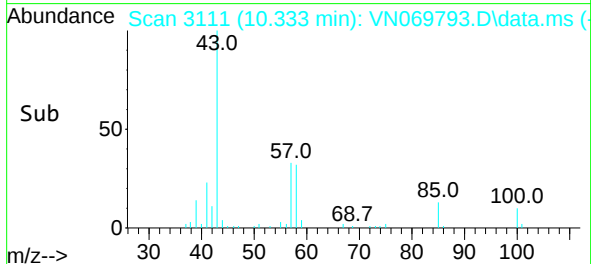
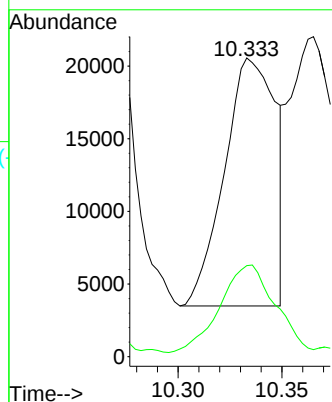
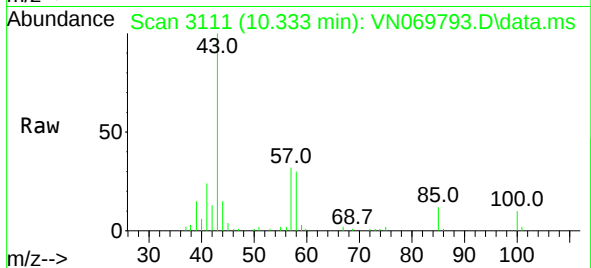
ClientSampleId :

Tgt Ion: 43 Resp: 29187

Ion Ratio Lower Upper

43 100

58 38.2 30.4 45.6



#53

t-1,3-Dichloropropene

Concen: 2.796 ug/l

RT: 10.725 min Scan# 3257

Delta R.T. 0.006 min

Lab File: VN069793.D

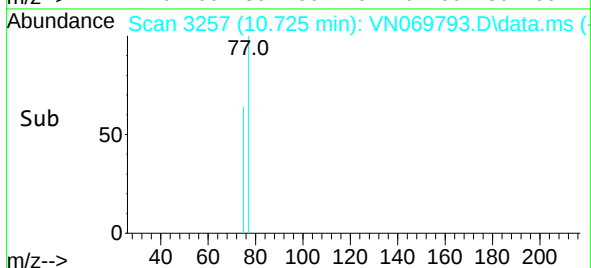
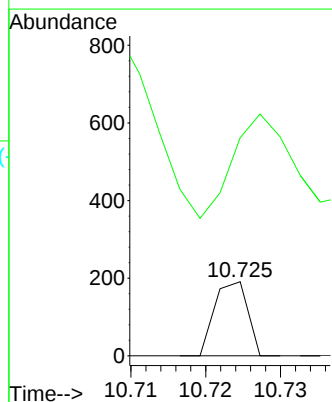
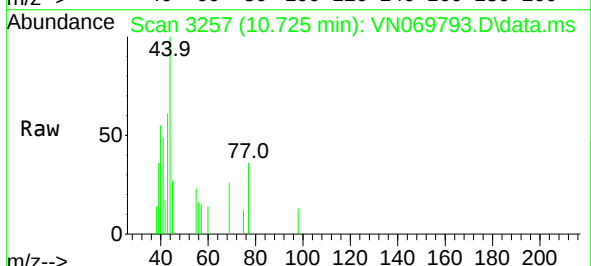
Acq: 6 Dec 2021 19:19

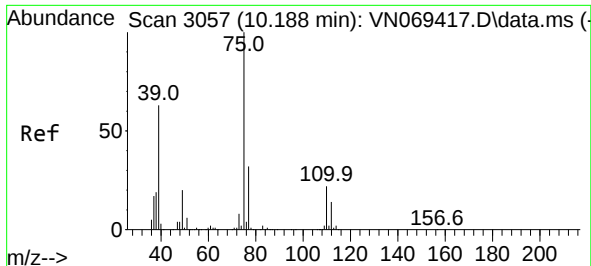
Tgt Ion: 75 Resp: 59

Ion Ratio Lower Upper

75 100

77 69.6 25.6 38.4#





#54

cis-1,3-Dichloropropene

Concen: 8.986 ug/l

RT: 10.247 min Scan# 3057

Delta R.T. 0.056 min

Lab File: VN069793.D

Acq: 6 Dec 2021 19:19

Instrument :

MSVOA_N

ClientSampleId :

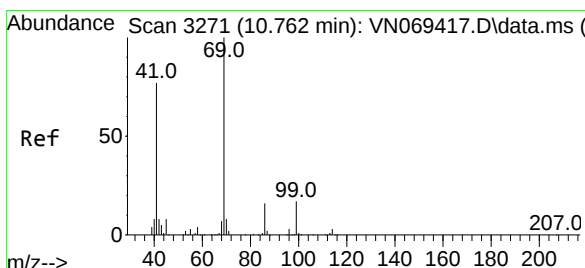
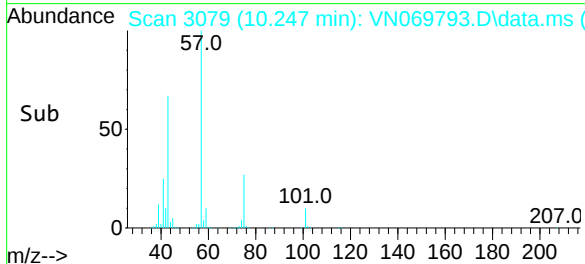
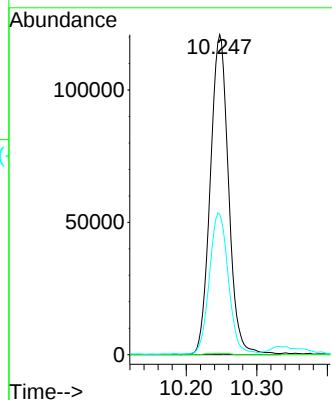
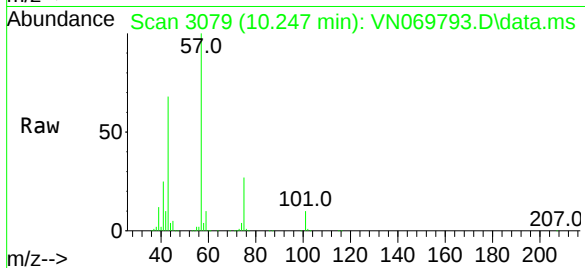
Tgt Ion: 75 Resp: 217793

Ion Ratio Lower Upper

75 100

77 0.4 26.4 39.6#

39 43.7 42.5 63.7



#56

Ethyl methacrylate

Concen: 2.304 ug/l

RT: 10.709 min Scan# 3251

Delta R.T. -0.053 min

Lab File: VN069793.D

Acq: 6 Dec 2021 19:19

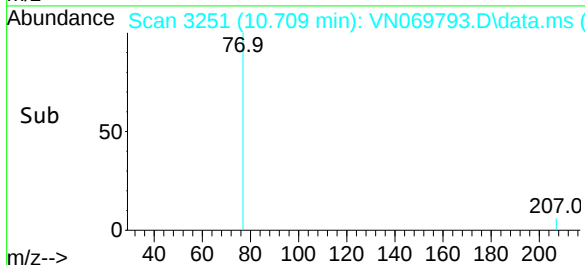
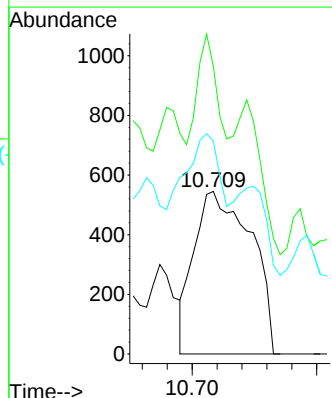
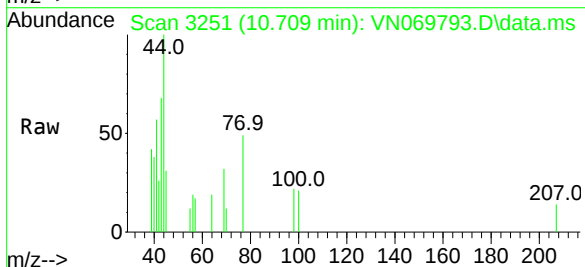
Tgt Ion: 69 Resp: 865

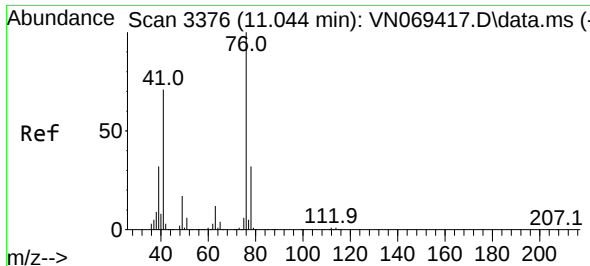
Ion Ratio Lower Upper

69 100

41 0.0 51.4 77.0#

39 0.0 34.6 52.0#





#57

1,3-Dichloropropane

Concen: 4.317 ug/l

RT: 11.092 min Scan# 31

Delta R.T. 0.046 min

Lab File: VN069793.D

Acq: 6 Dec 2021 19:19

Instrument :

MSVOA_N

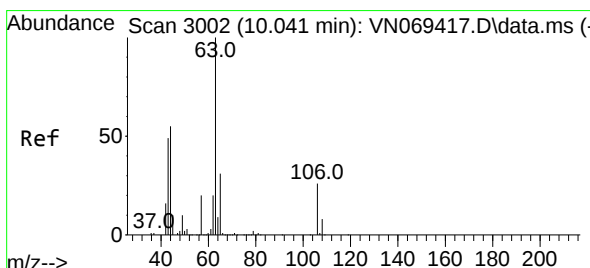
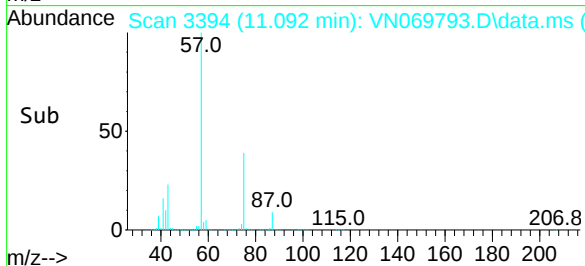
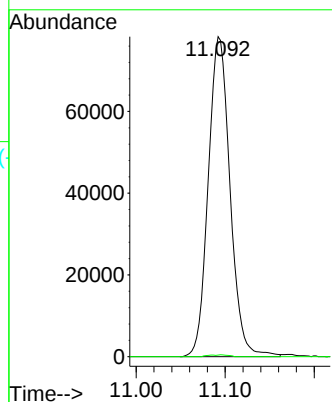
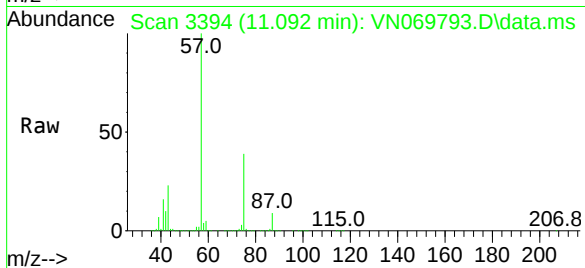
ClientSampleId :

Tgt Ion: 76 Resp: 133122

Ion Ratio Lower Upper

76 100

78 0.5 25.7 38.5#



#58

2-Chloroethyl Vinyl ether

Concen: 18.392 ug/l

RT: 9.877 min Scan# 2941

Delta R.T. -0.166 min

Lab File: VN069793.D

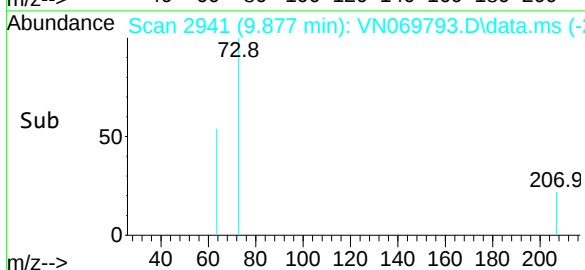
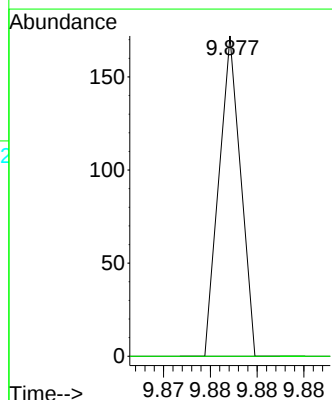
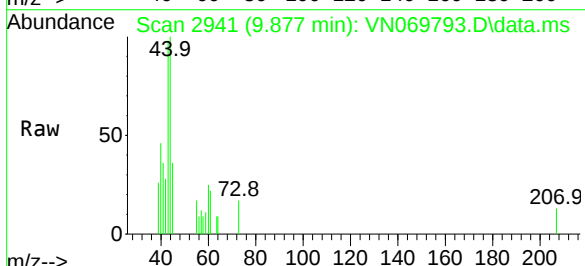
Acq: 6 Dec 2021 19:19

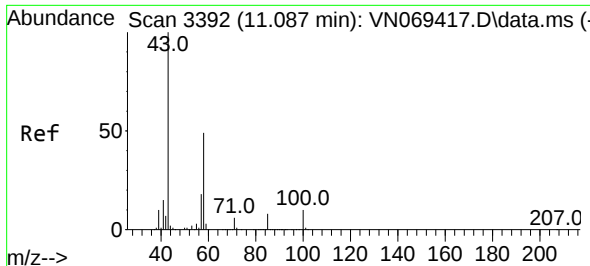
Tgt Ion: 63 Resp: 28

Ion Ratio Lower Upper

63 100

106 0.0 23.9 35.9#

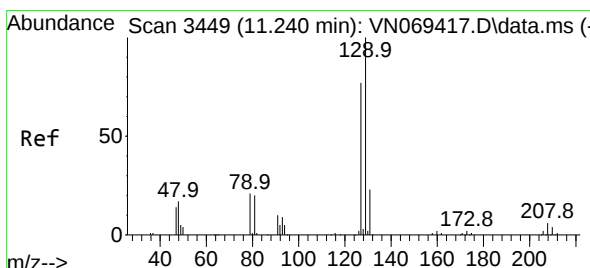
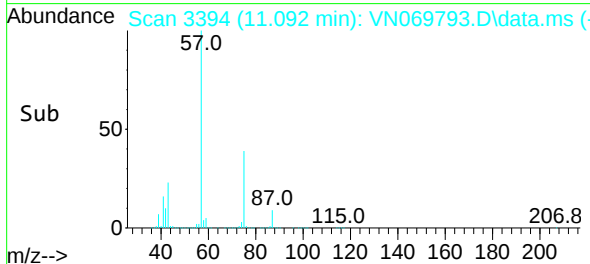
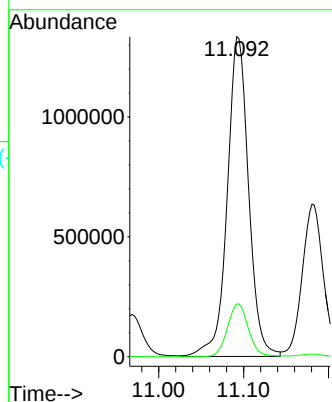
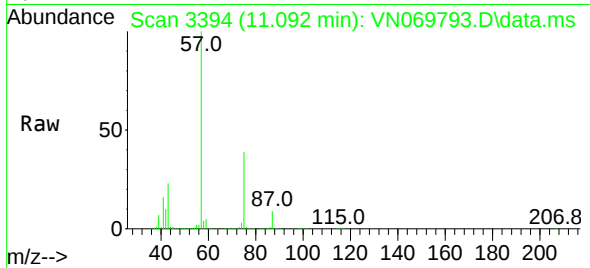




#59
2-Hexanone
Concen: 92.827 ug/l
RT: 11.092 min Scan# 31
Delta R.T. 0.005 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

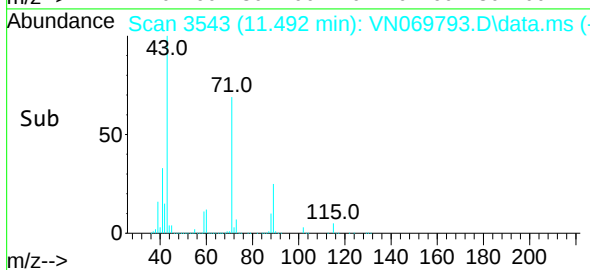
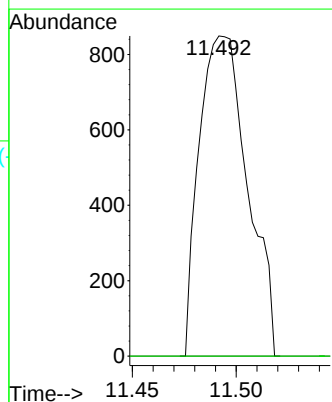
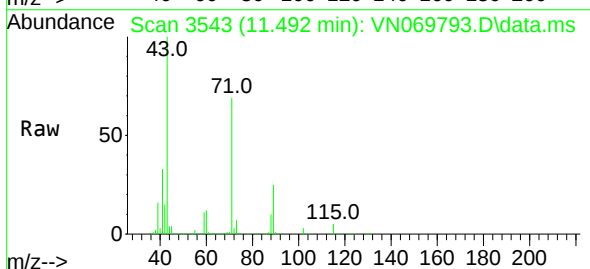
Instrument :
MSVOA_N
ClientSampleId :

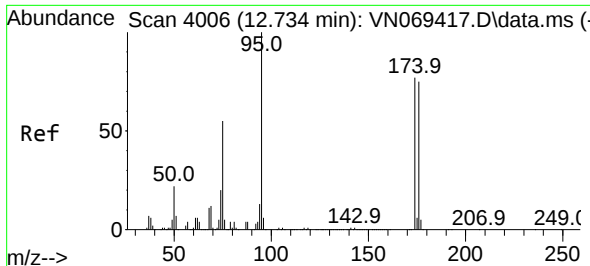
Tgt Ion: 43 Resp: 2333476
Ion Ratio Lower Upper
43 100
58 16.2 26.9 80.7#



#60
Dibromochloromethane
Concen: 2.446 ug/l
RT: 11.492 min Scan# 3543
Delta R.T. 0.252 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

Tgt Ion:129 Resp: 1376
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

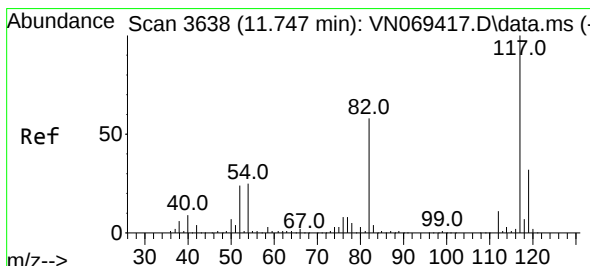
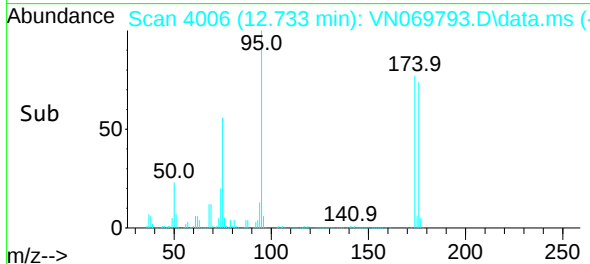
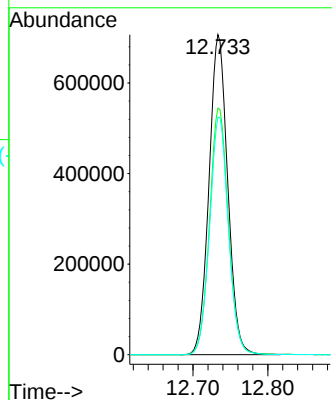
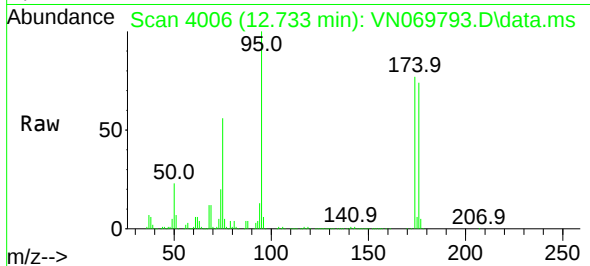




#62
4-Bromofluorobenzene
Concen: 55.097 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.002 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

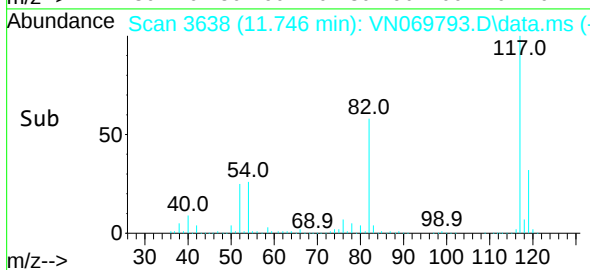
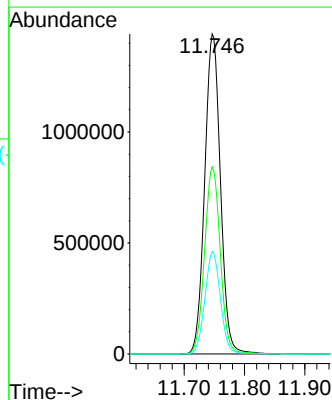
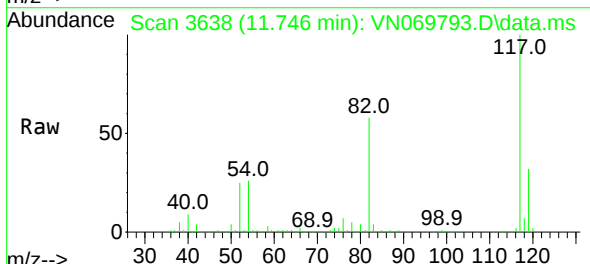
Instrument :
MSVOA_N
ClientSampleId :

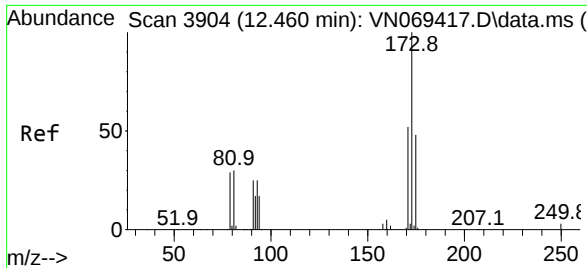
Tgt Ion: 95 Resp: 1226465
Ion Ratio Lower Upper
95 100
174 77.6 0.0 187.2
176 74.4 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

Tgt Ion: 117 Resp: 2614536
Ion Ratio Lower Upper
117 100
82 58.5 42.4 63.6
119 32.0 25.4 38.2

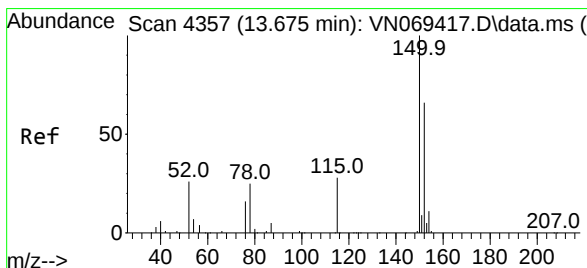
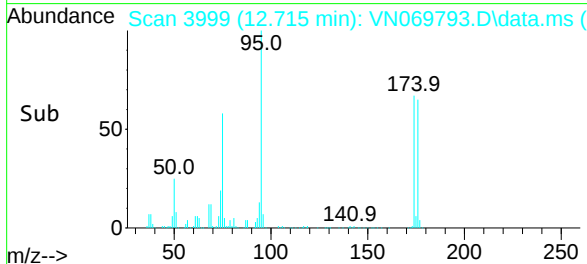
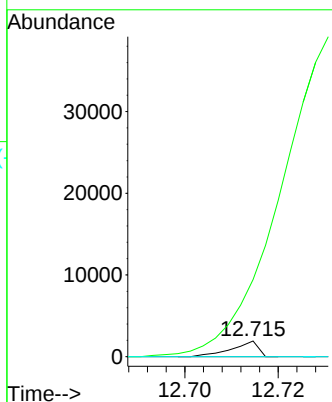
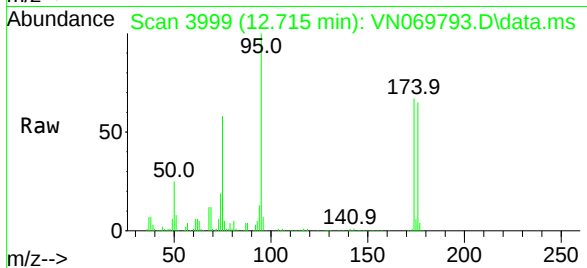




#71
Bromoform
Concen: 2.775 ug/l
RT: 12.715 min Scan# 3904
Delta R.T. 0.255 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

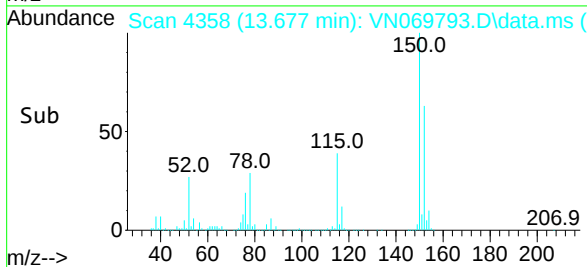
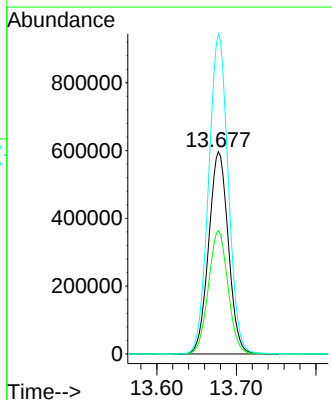
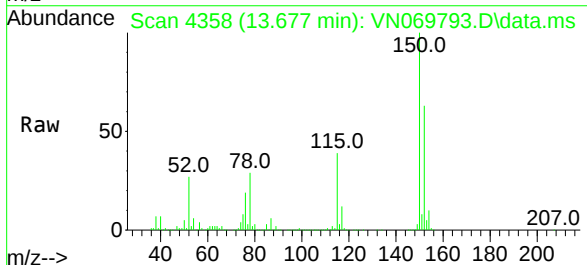
Instrument :
MSVOA_N
ClientSampleId :

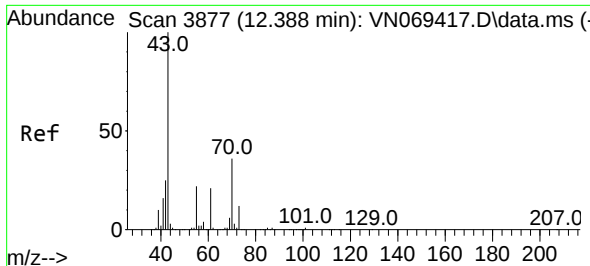
Tgt Ion:173 Resp: 747
Ion Ratio Lower Upper
173 100
175 9015.4 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. 0.000 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

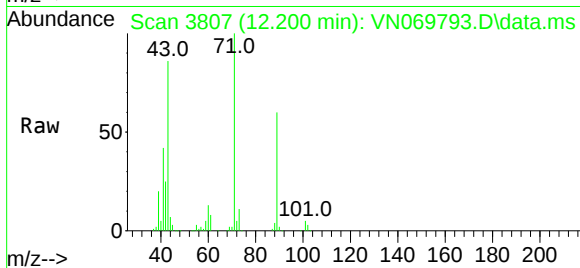
Tgt Ion:152 Resp: 1025693
Ion Ratio Lower Upper
152 100
115 60.6 27.5 82.5
150 157.5 0.0 344.4



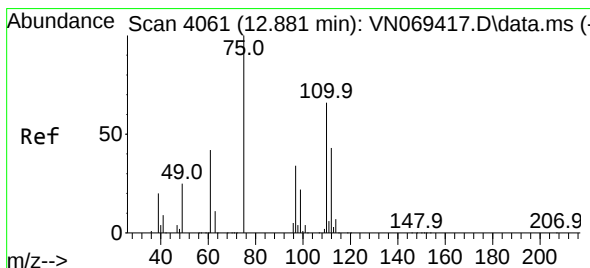
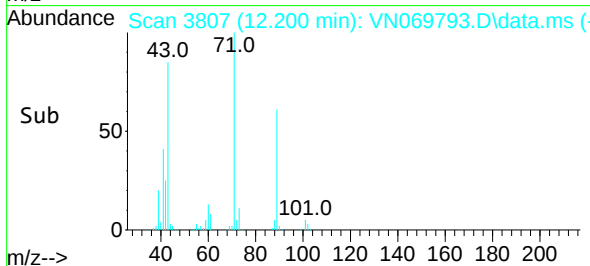
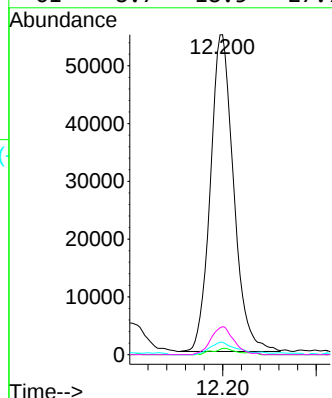


#74
N-amy1 acetate
Concen: 2.357 ug/l
RT: 12.200 min Scan# 3807
Delta R.T. -0.188 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

Instrument :
MSVOA_N
ClientSampleId :

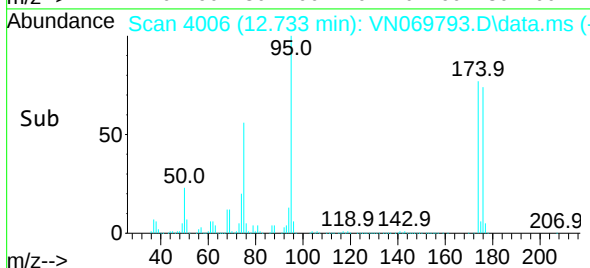
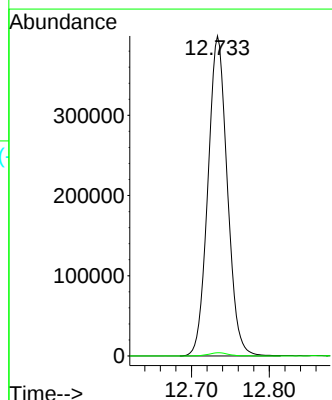
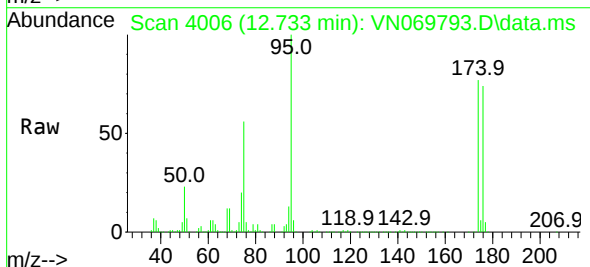


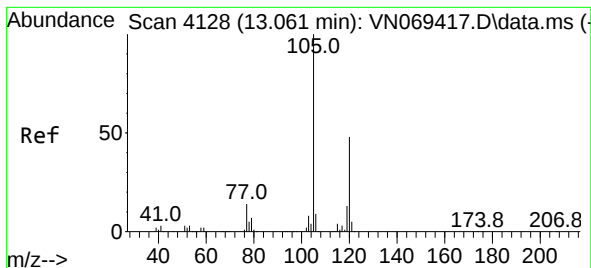
Tgt Ion: 43	Resp: 95121
Ion Ratio	Lower Upper
43	100
70	1.0 33.4 50.0#
55	4.4 19.3 28.9#
61	8.7 18.5 27.7#



#76
1,2,3-Trichloropropane
Concen: 23.447 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

Tgt Ion: 75	Resp: 689696
Ion Ratio	Lower Upper
75	100
77	1.0 82.6 247.8#





#80

1,3,5-Trimethylbenzene

Concen: 0.320 ug/l

RT: 13.061 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN069793.D

Acq: 6 Dec 2021 19:19

Instrument :

MSVOA_N

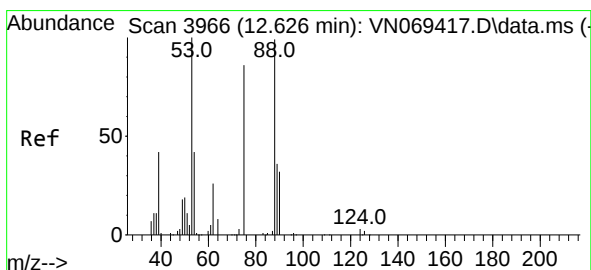
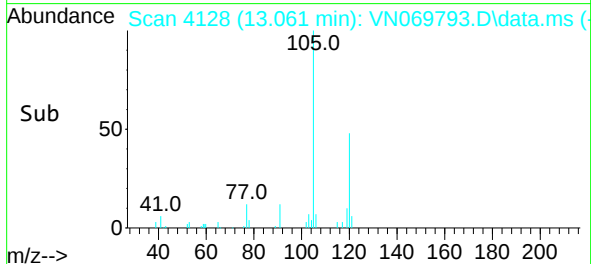
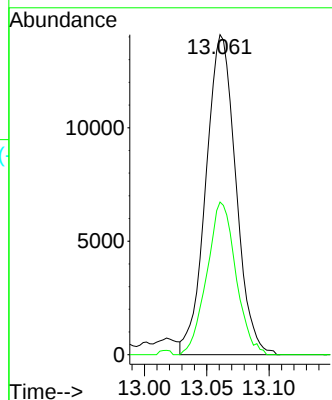
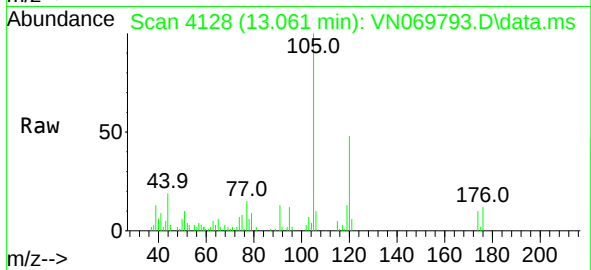
ClientSampleId :

Tgt Ion:105 Resp: 23540

Ion Ratio Lower Upper

105 100

120 46.2 24.6 73.6



#81

trans-1,4-Dichloro-2-butene

Concen: 74.569 ug/l

RT: 12.733 min Scan# 4006

Delta R.T. 0.107 min

Lab File: VN069793.D

Acq: 6 Dec 2021 19:19

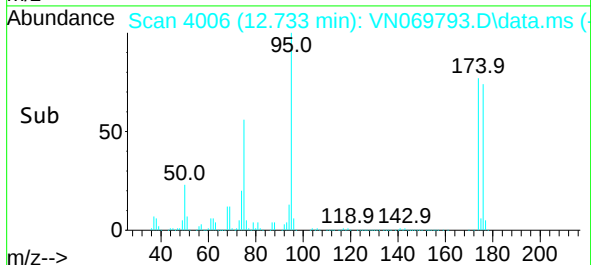
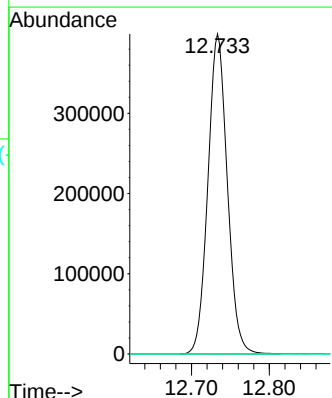
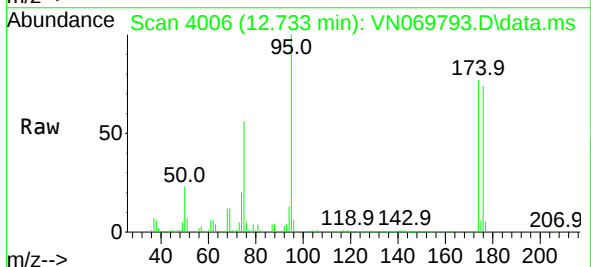
Tgt Ion: 75 Resp: 689696

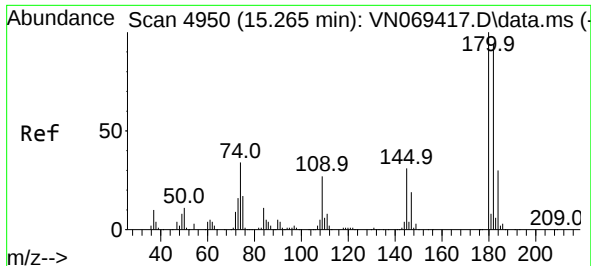
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

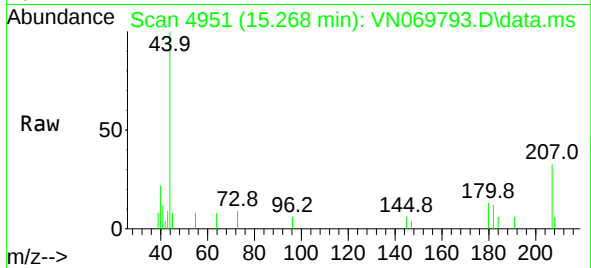
89 0.0 38.2 57.4#



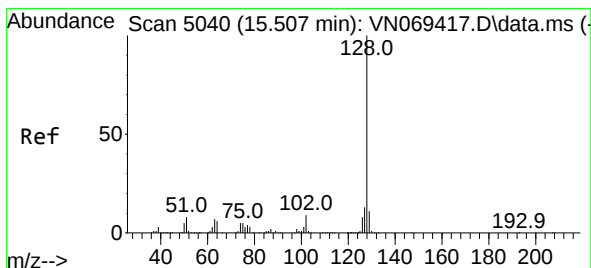
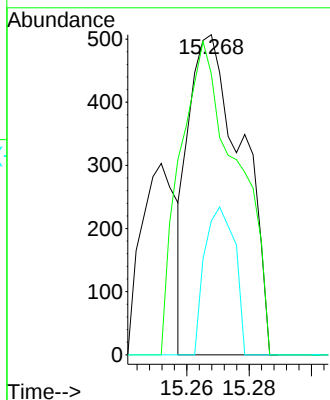
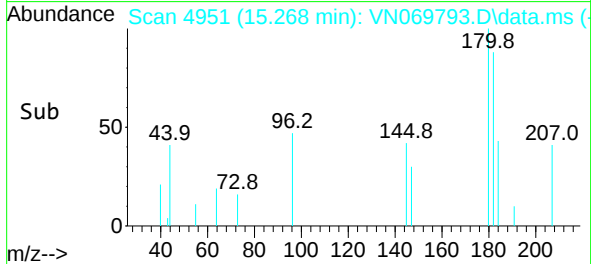


#93
1,2,4-Trichlorobenzene
Concen: 2.912 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19

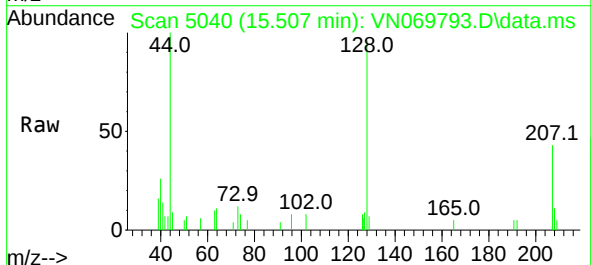
Instrument :
MSVOA_N
ClientSampleId :



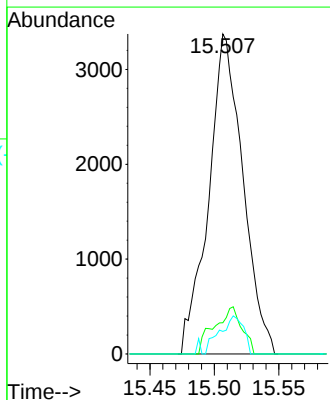
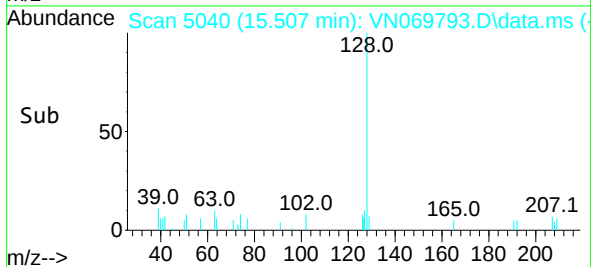
Tgt Ion:180 Resp: 602
Ion Ratio Lower Upper
180 100
182 105.6 48.3 144.9
145 26.1 14.5 43.5

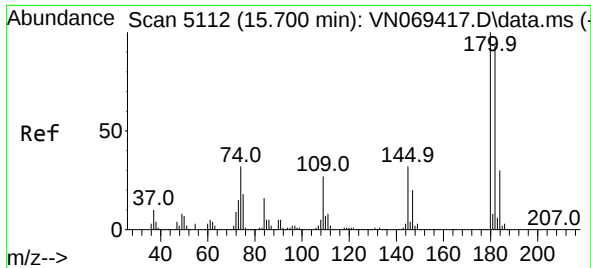


#95
Naphthalene
Concen: 4.100 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN069793.D
Acq: 6 Dec 2021 19:19



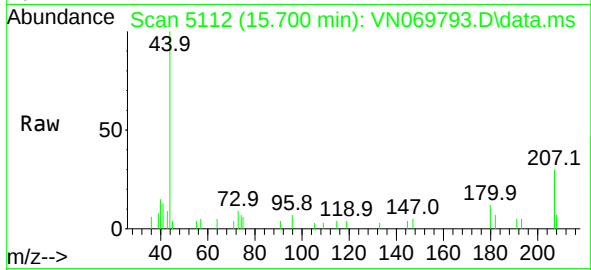
Tgt Ion:128 Resp: 6232
Ion Ratio Lower Upper
128 100
127 11.8 10.5 15.7
129 8.3 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.467 ug/l
 RT: 15.700 min Scan# 51
 Delta R.T. -0.002 min
 Lab File: VN069793.D
 Acq: 6 Dec 2021 19:19

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 540
 Ion Ratio Lower Upper
 180 100
 182 86.7 47.4 142.2
 145 0.0 15.0 45.1#

