

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
 Data File : VN084990.D
 Acq On : 21 Nov 2024 11:43
 Operator : JC\MD
 Sample : VN1121WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 21 14:43:21 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

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

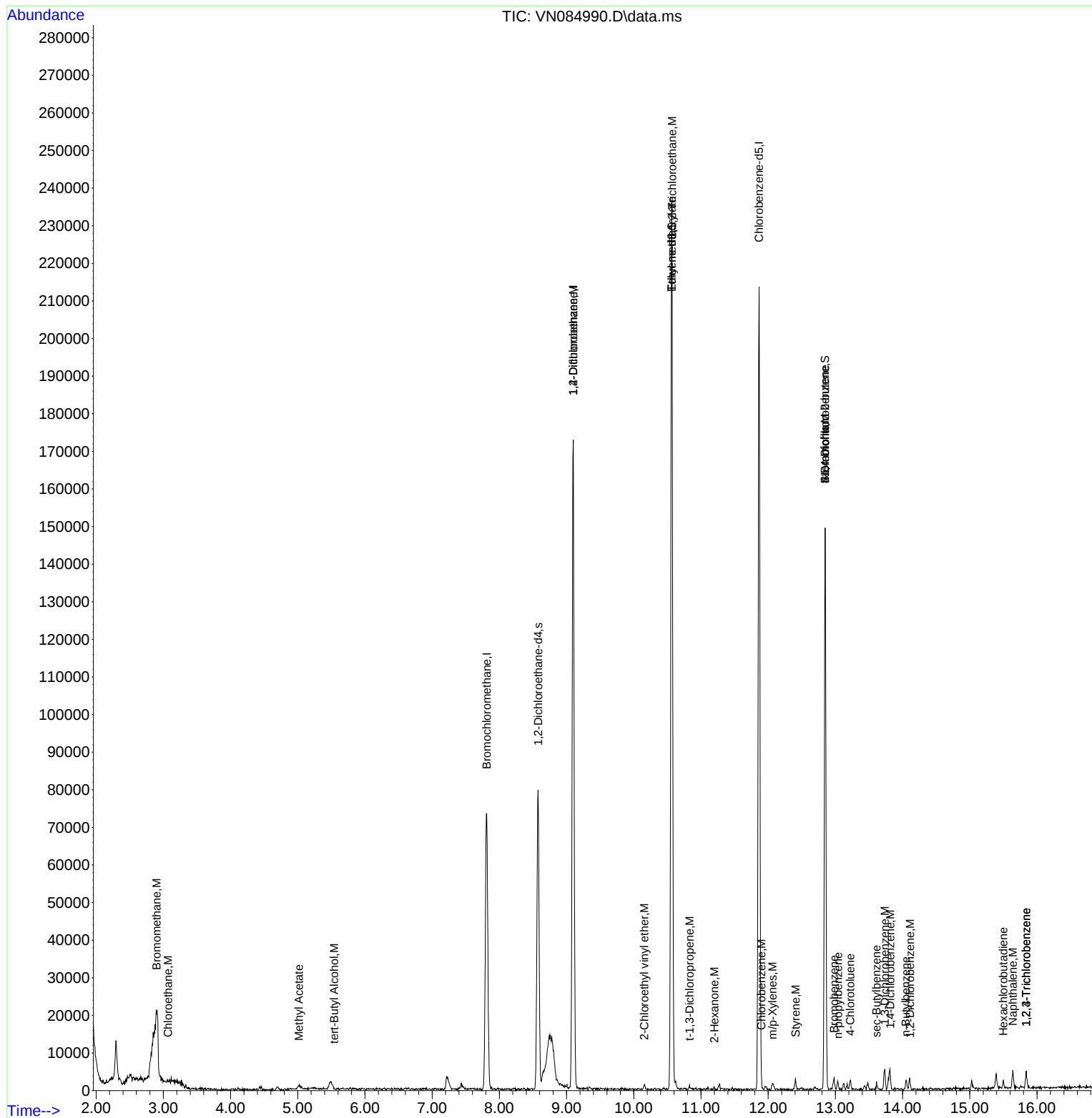
Internal Standards						
1) Bromochloromethane	7.812	128	26986	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	144485	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	123949	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	67156	30.954	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.167%			
60) 4-Bromofluorobenzene	12.847	95	52082	24.404	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 81.333%			
63) Toluene-d8	10.565	98	164490	28.033	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 93.433%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.900	94	466	0.523	ug/l	99
6) Chloroethane	3.071	64	294	0.255	ug/l #	47
12) Methyl Acetate	5.018	43	1121	0.457	ug/l #	32
23) tert-Butyl Alcohol	5.541	59	58	0.207	ug/l #	100
36) 1,2-Dichloroethane	9.100	62	5056	2.114	ug/l #	74
48) t-1,3-Dichloropropene	10.829	75	593	0.231	ug/l #	79
50) 1,1,2-Trichloroethane	10.570	97	5705	3.511	ug/l #	1
51) Ethyl methacrylate	10.565	69	608	0.243	ug/l #	78
55) 2-Chloroethyl vinyl ether	10.159	63	482	0.393	ug/l #	45
56) Bromoform	12.847	173	465	0.365	ug/l #	1
59) 2-Hexanone	11.200	43	370	0.258	ug/l #	86
64) Chlorobenzene	11.900	112	1394	0.327	ug/l #	42
67) m/p-Xylenes	12.065	106	785	0.276	ug/l	74
69) Styrene	12.412	104	1150	0.250	ug/l #	79
73) Bromobenzene	12.982	156	928	0.529	ug/l	73
74) n-propylbenzene	13.041	91	2194	0.276	ug/l	79
77) t-1,4-Dichloro-2-butene	12.847	75	25432	32.916	ug/l #	7
78) 4-Chlorotoluene	13.223	91	2462	0.470	ug/l	98
81) sec-Butylbenzene	13.611	105	1390	0.210	ug/l	83
83) 1,3-Dichlorobenzene	13.735	146	2224	0.685	ug/l	97
84) 1,4-Dichlorobenzene	13.817	146	2263	0.705	ug/l	94
85) n-Butylbenzene	14.047	91	1759	0.376	ug/l	96
87) 1,2-Dichlorobenzene	14.111	146	1345	0.420	ug/l	85
89) 1,2,4-Trichlorobenzene	15.841	180	1928	1.238	ug/l #	90
90) Hexachlorobutadiene	15.500	225	590	0.867	ug/l	73
91) Naphthalene	15.641	128	4691	0.943	ug/l #	86
92) 1,2,3-Trichlorobenzene	15.841	180	1928	1.238	ug/l	90

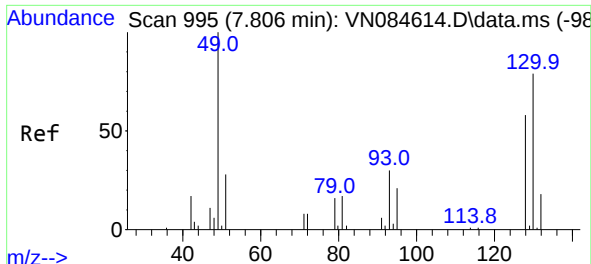
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN084990.D
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Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Nov 21 14:43:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

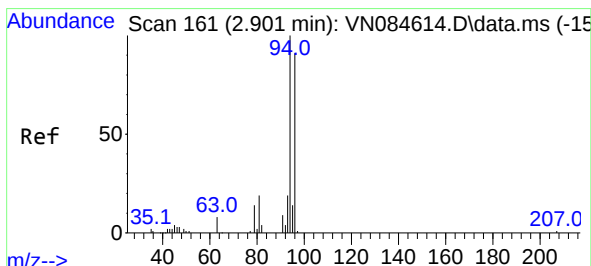
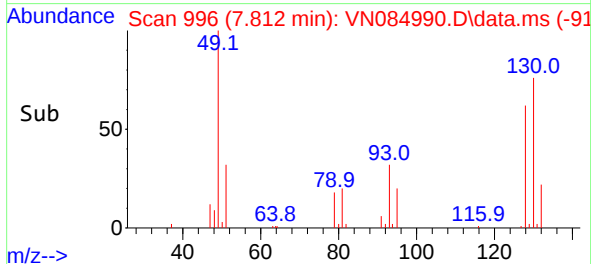
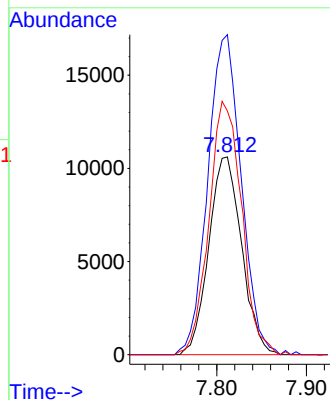
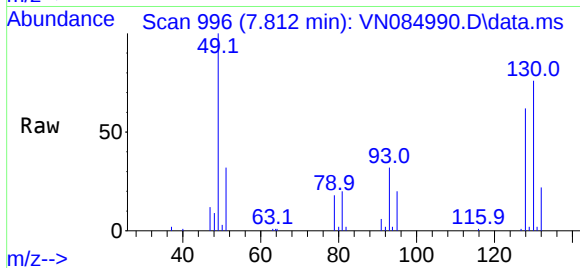




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 995
Delta R.T. 0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

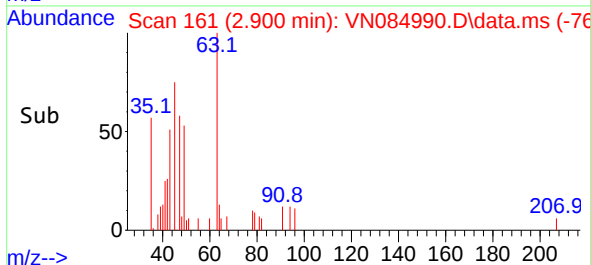
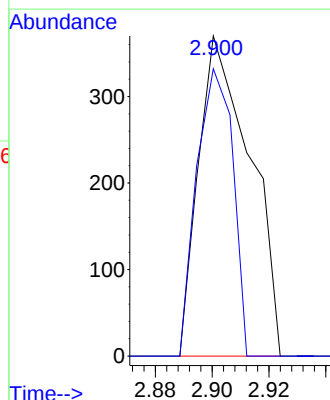
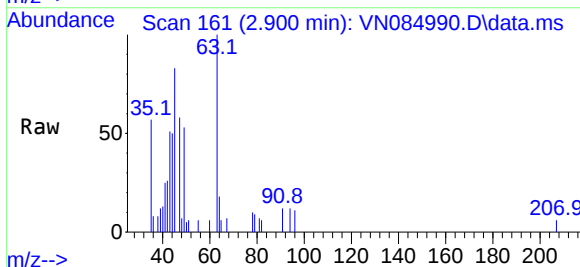
Instrument :
MSVOA_N
ClientSampleId :

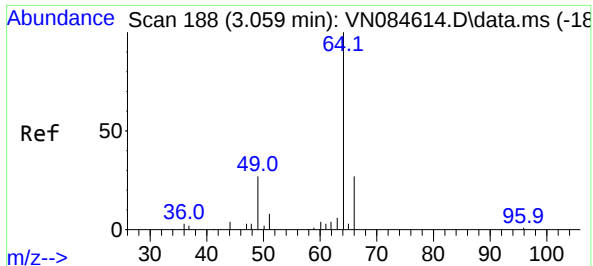
Tgt Ion:128 Resp: 26986
Ion Ratio Lower Upper
128 100
49 164.2 0.0 427.0
130 127.4 0.0 322.2



#5
Bromomethane
Concen: 0.523 ug/l
RT: 2.900 min Scan# 161
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Tgt Ion: 94 Resp: 466
Ion Ratio Lower Upper
94 100
96 89.7 72.7 109.1

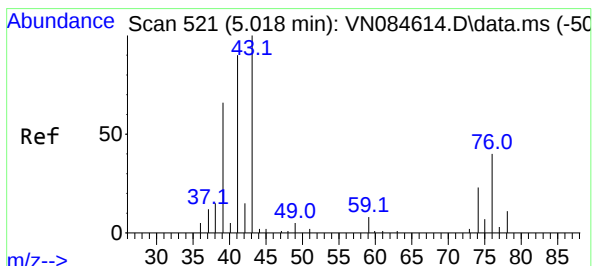
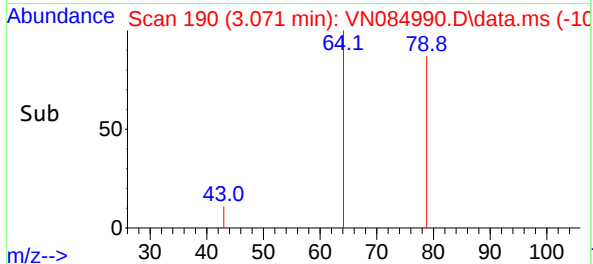
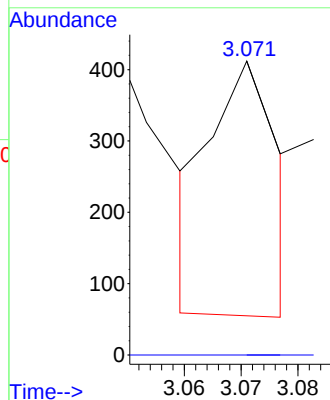
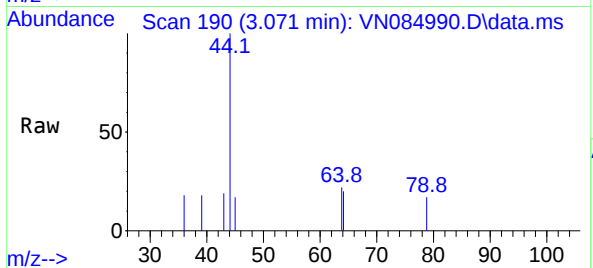




#6
Chloroethane
Concen: 0.255 ug/l
RT: 3.071 min Scan# 190
Delta R.T. 0.012 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

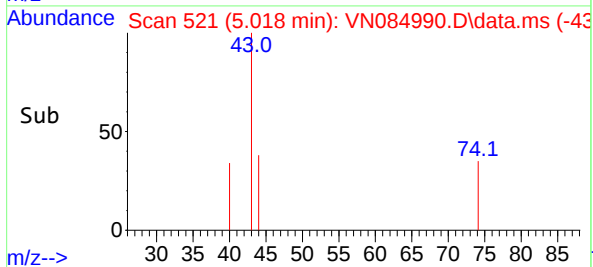
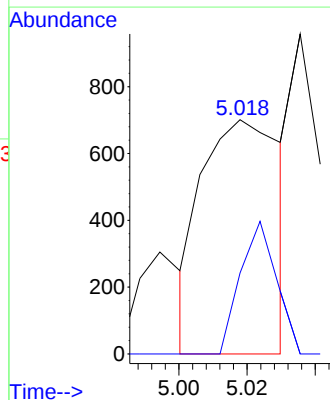
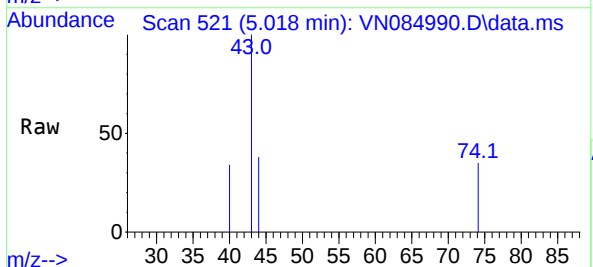
Instrument :
MSVOA_N
ClientSampleId :

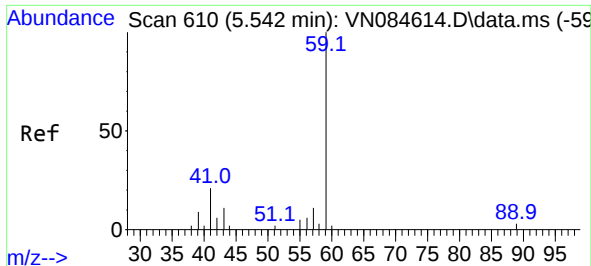
Tgt Ion: 64 Resp: 294
Ion Ratio Lower Upper
64 100
66 0.0 22.1 33.1#



#12
Methyl Acetate
Concen: 0.457 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Tgt Ion: 43 Resp: 1121
Ion Ratio Lower Upper
43 100
74 56.9 19.0 28.4#

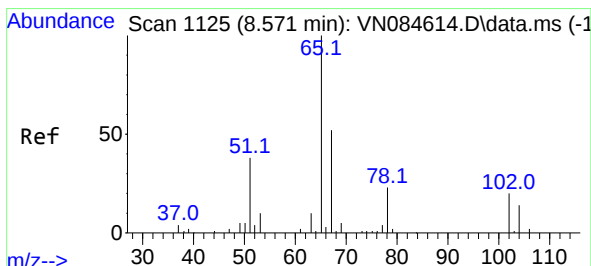
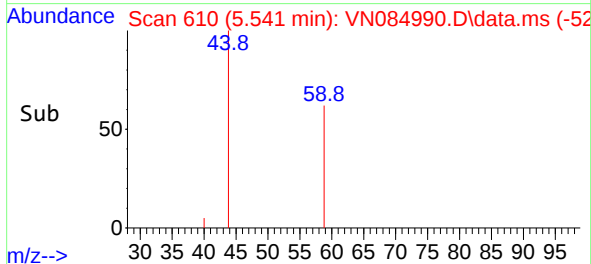
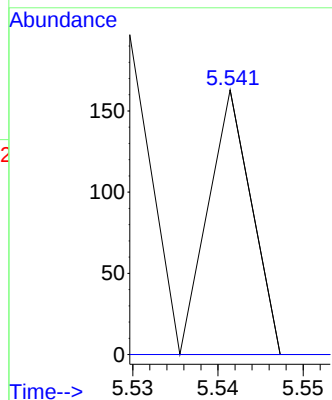
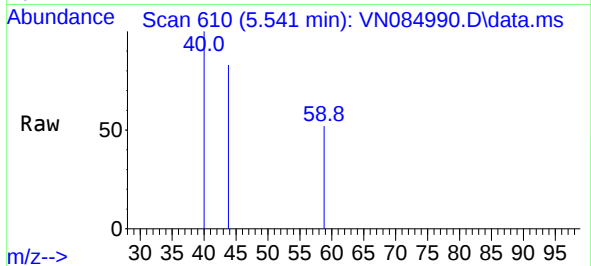




#23
tert-Butyl Alcohol
Concen: 0.207 ug/l
RT: 5.541 min Scan# 610
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

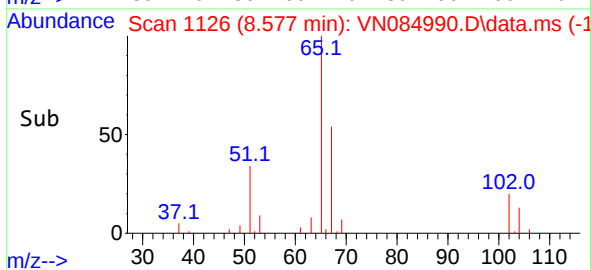
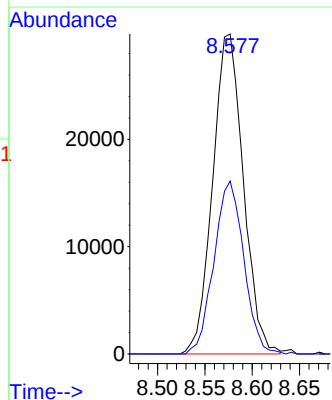
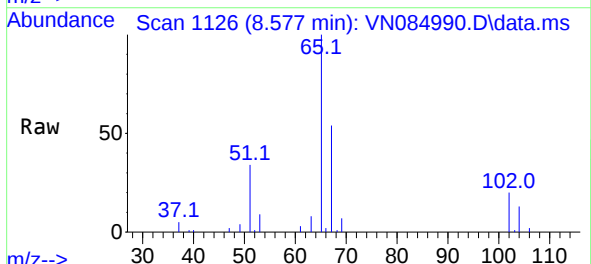
Instrument :
MSVOA_N
ClientSampleId :

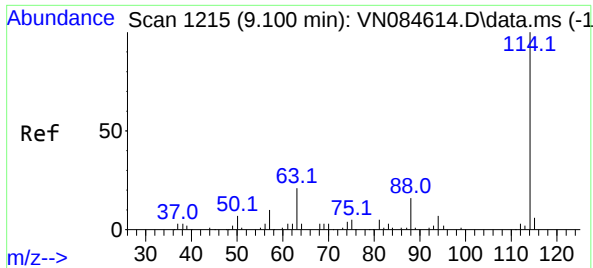
Tgt Ion: 59 Resp: 58
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 30.954 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Tgt Ion: 65 Resp: 67156
Ion Ratio Lower Upper
65 100
67 52.5 40.7 61.1

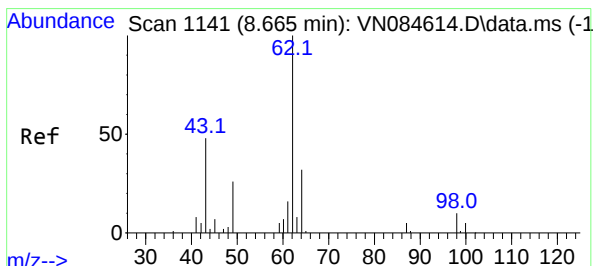
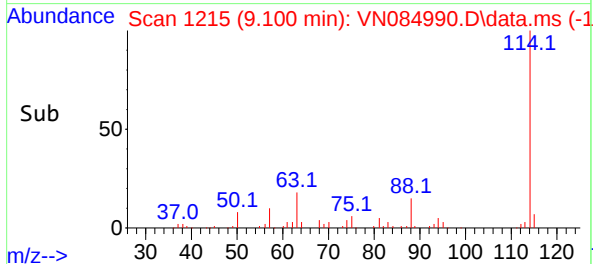
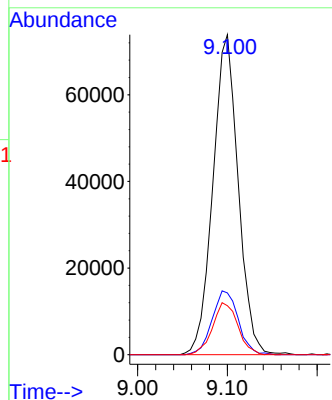
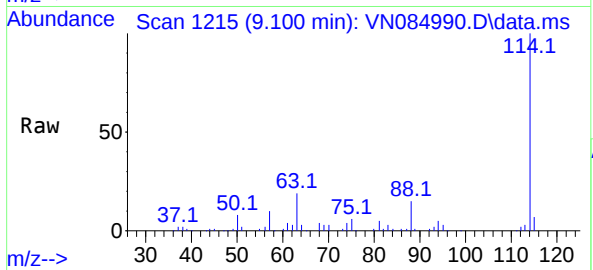




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

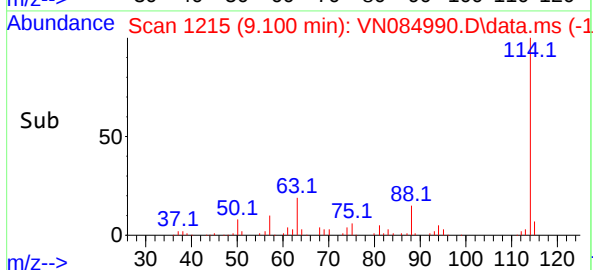
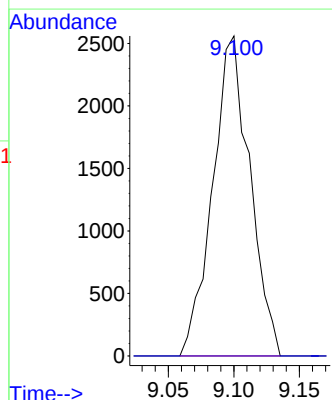
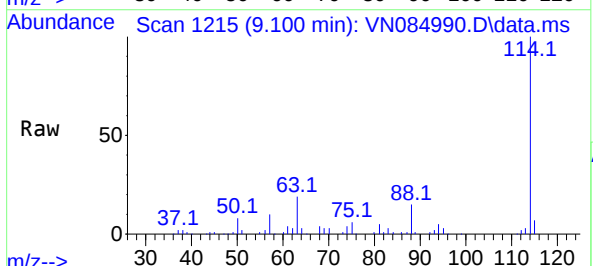
Instrument :
MSVOA_N
ClientSampleId :

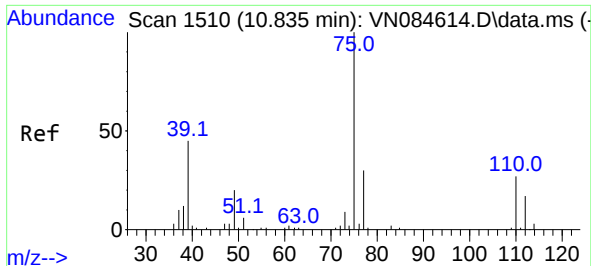
Tgt Ion:114 Resp: 144485
Ion Ratio Lower Upper
114 100
63 20.6 16.8 25.2
88 16.3 12.9 19.3



#36
1,2-Dichloroethane
Concen: 2.114 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.435 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Tgt Ion: 62 Resp: 5056
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.6#

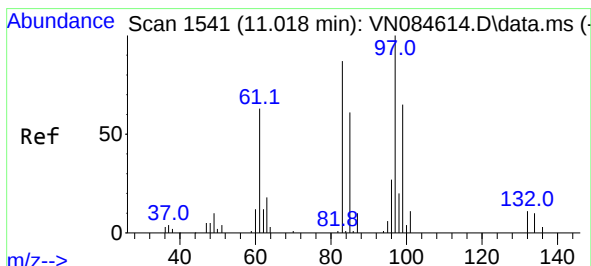
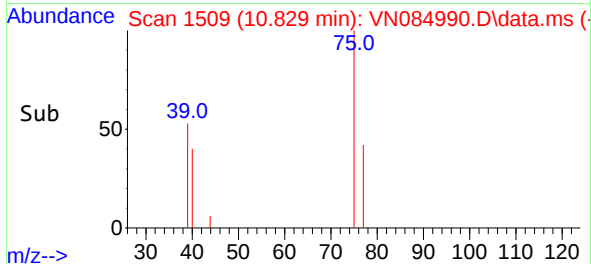
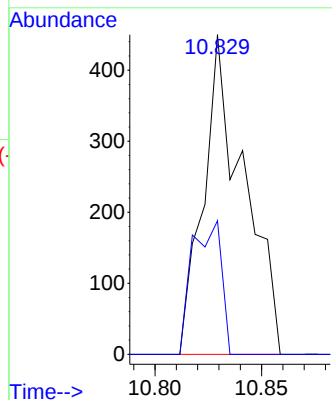
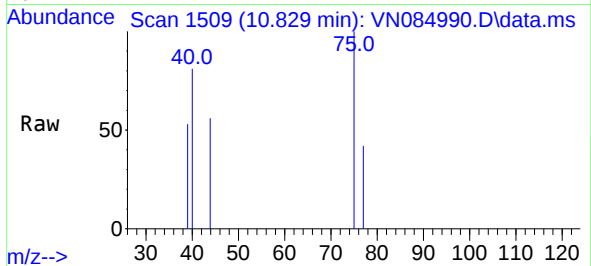




#48
t-1,3-Dichloropropene
Concen: 0.231 ug/l
RT: 10.829 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

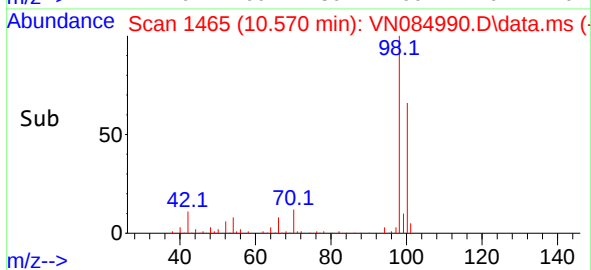
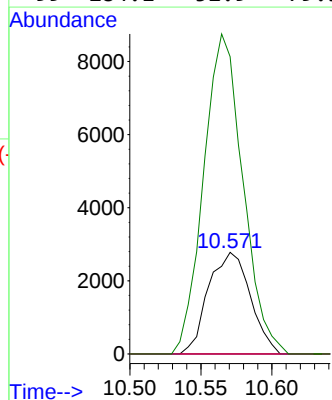
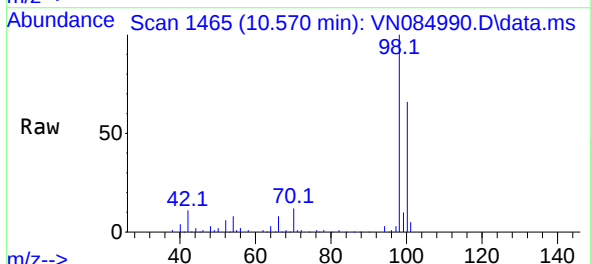
Instrument :
MSVOA_N
ClientSampleId :

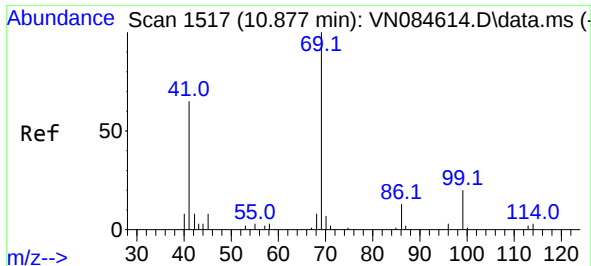
Tgt Ion: 75 Resp: 593
Ion Ratio Lower Upper
75 100
77 41.8 24.4 36.6#



#50
1,1,2-Trichloroethane
Concen: 3.511 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.447 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

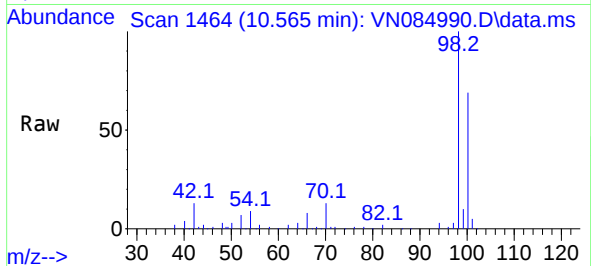
Tgt Ion: 97 Resp: 5705
Ion Ratio Lower Upper
97 100
83 0.0 69.8 104.8#
85 0.0 48.6 73.0#
99 284.1 52.9 79.3#



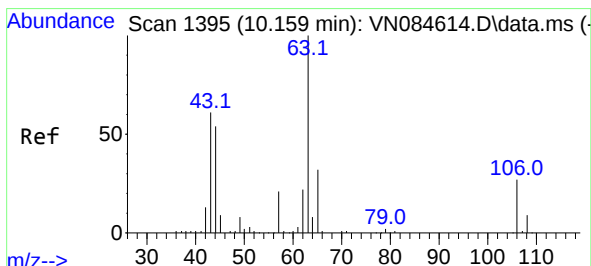
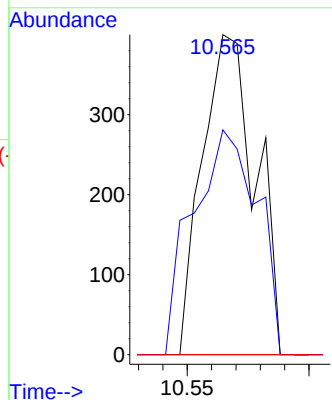
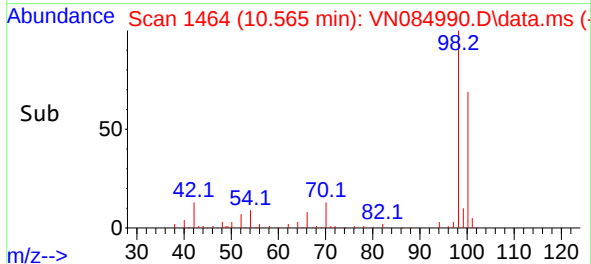


#51
Ethyl methacrylate
Concen: 0.243 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.312 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

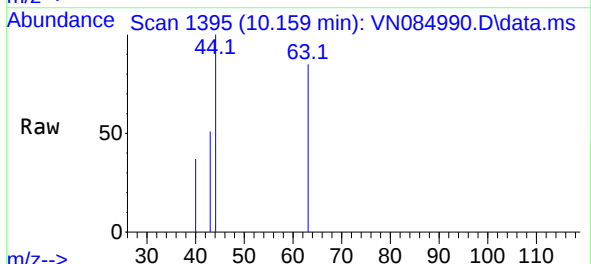
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MSVOA_N
ClientSampleId :



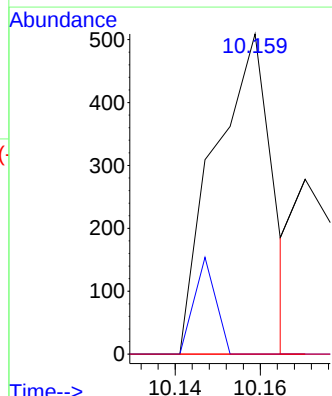
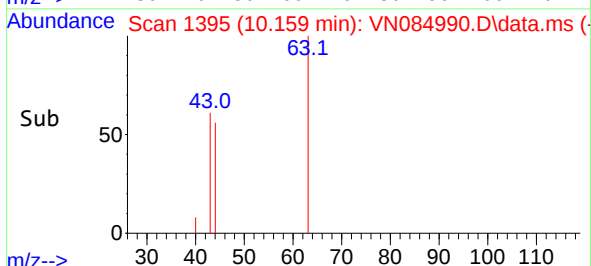
Tgt Ion: 69 Resp: 608
Ion Ratio Lower Upper
69 100
41 70.3 32.8 98.3
39 0.0 15.4 46.1#

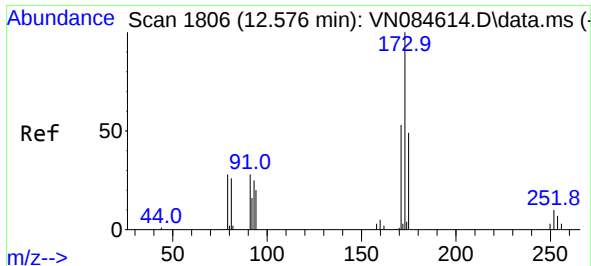


#55
2-Chloroethyl vinyl ether
Concen: 0.393 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43



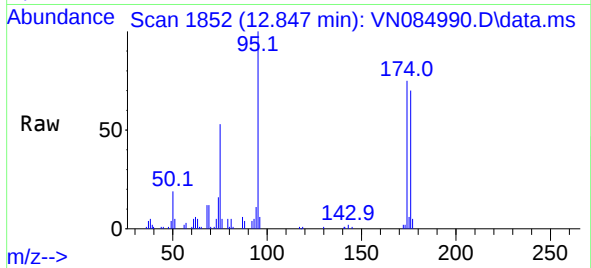
Tgt Ion: 63 Resp: 482
Ion Ratio Lower Upper
63 100
65 0.0 25.5 38.3#
106 0.0 22.3 33.5#



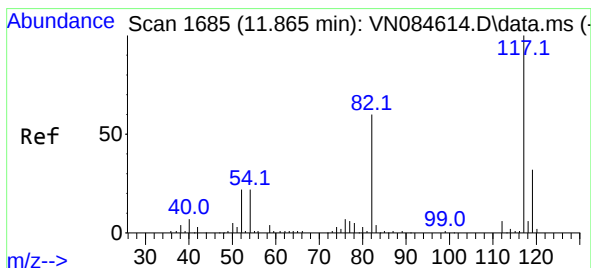
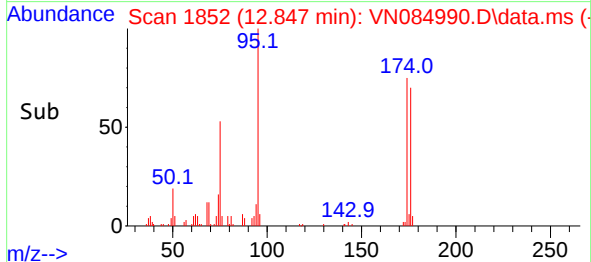
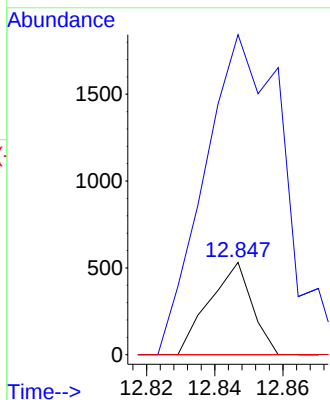


#56
Bromoform
Concen: 0.365 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Instrument :
MSVOA_N
ClientSampleId :

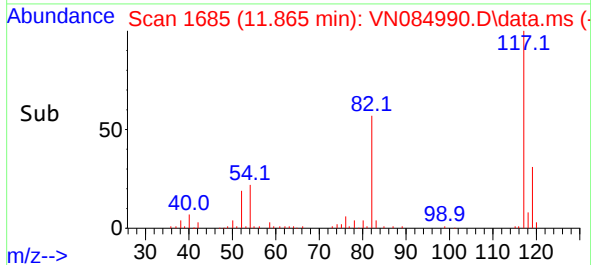
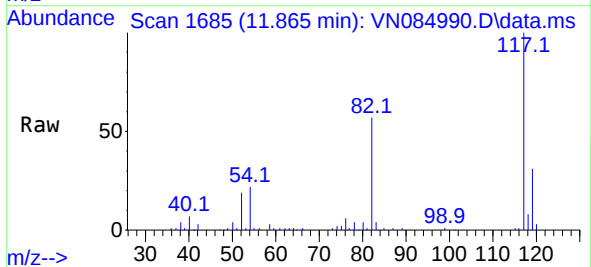
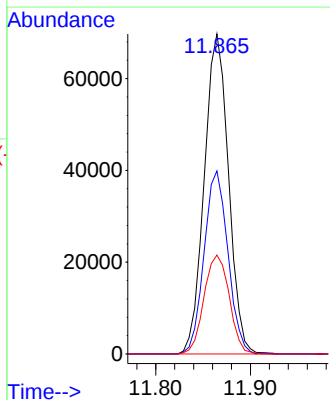


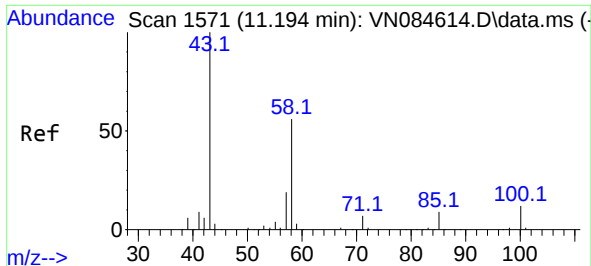
Tgt Ion:173 Resp: 465
Ion Ratio Lower Upper
173 100
175 638.5 39.4 59.2#
254 0.0 6.4 9.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Tgt Ion:117 Resp: 123949
Ion Ratio Lower Upper
117 100
82 56.1 45.5 68.3
119 32.1 25.3 37.9

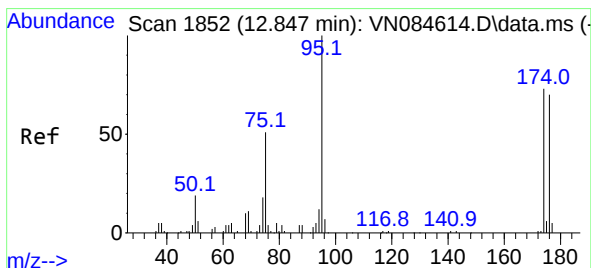
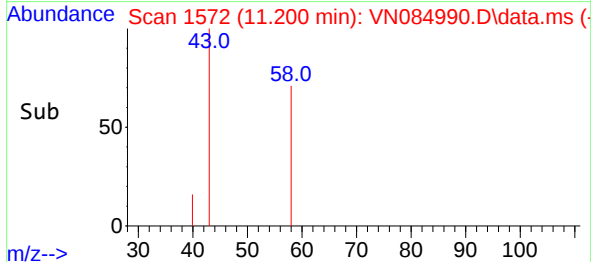
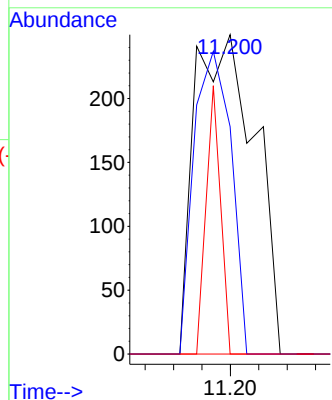
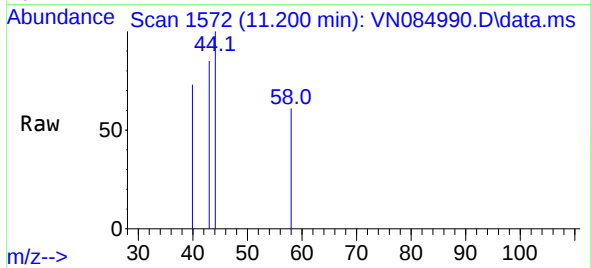




#59
2-Hexanone
Concen: 0.258 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

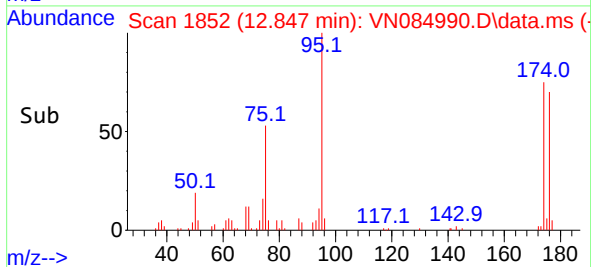
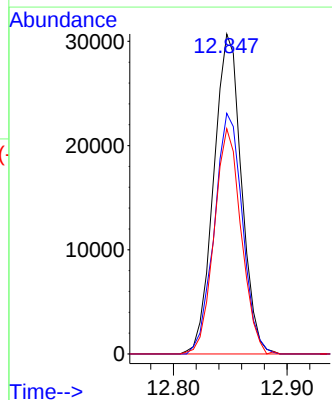
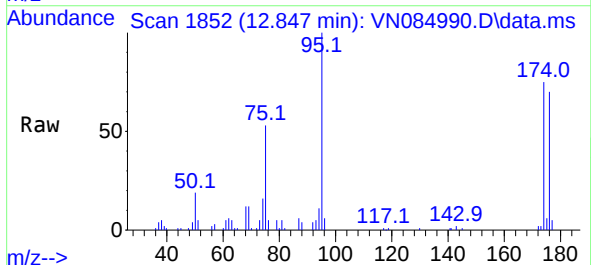
Instrument :
MSVOA_N
ClientSampleId :

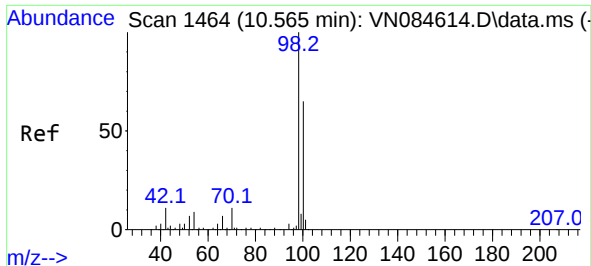
Tgt Ion: 43 Resp: 370
Ion Ratio Lower Upper
43 100
58 58.1 43.8 65.6
57 0.0 15.0 22.6#



#60
4-Bromofluorobenzene
Concen: 24.404 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

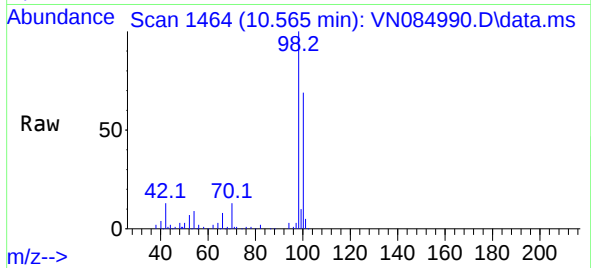
Tgt Ion: 95 Resp: 52082
Ion Ratio Lower Upper
95 100
174 76.3 59.6 89.4
176 68.5 58.6 88.0



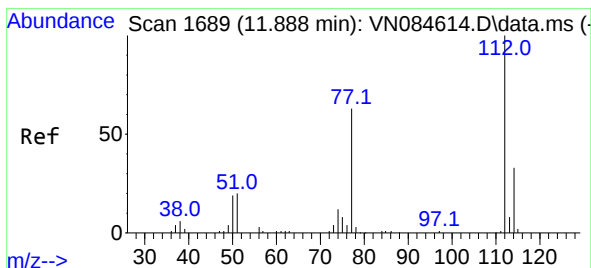
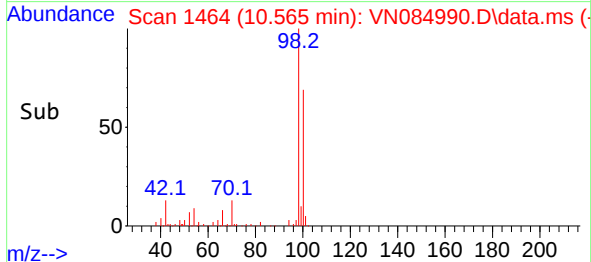
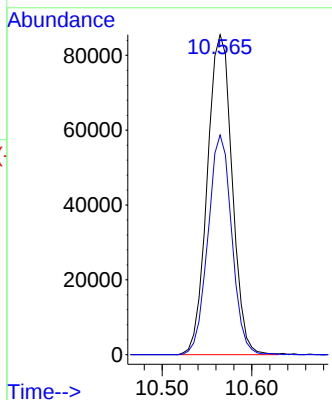


#63
Toluene-d8
Concen: 28.033 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Instrument :
MSVOA_N
ClientSampleId :

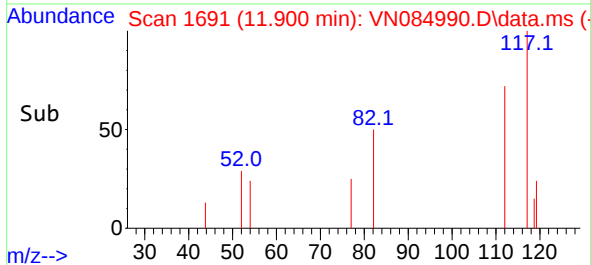
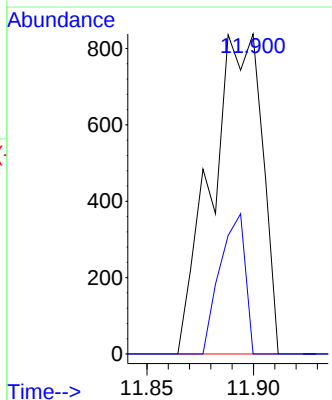
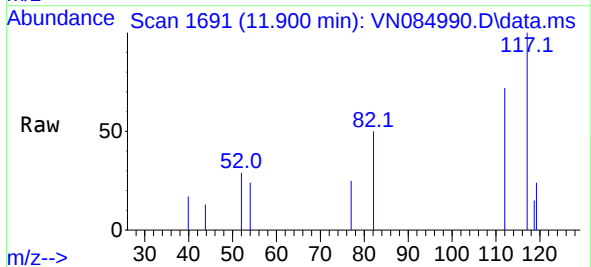


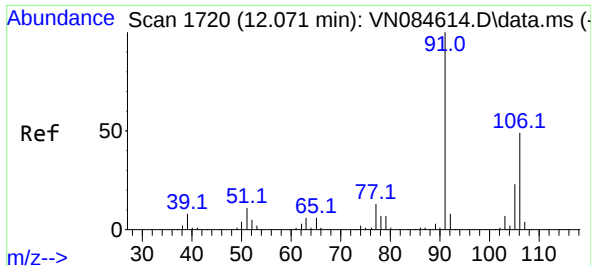
Tgt Ion: 98 Resp: 164490
Ion Ratio Lower Upper
98 100
100 65.5 52.2 78.2



#64
Chlorobenzene
Concen: 0.327 ug/l
RT: 11.900 min Scan# 1691
Delta R.T. 0.012 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Tgt Ion: 112 Resp: 1394
Ion Ratio Lower Upper
112 100
114 0.0 26.2 39.4#

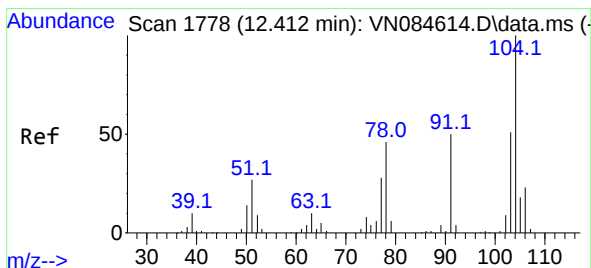
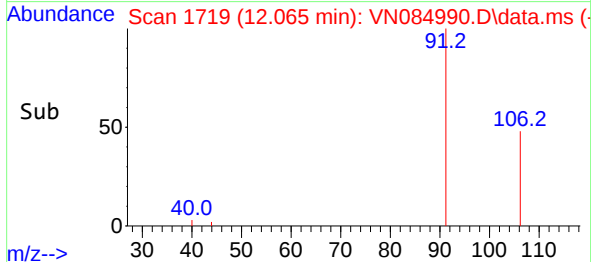
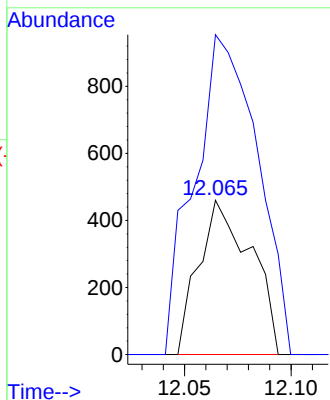
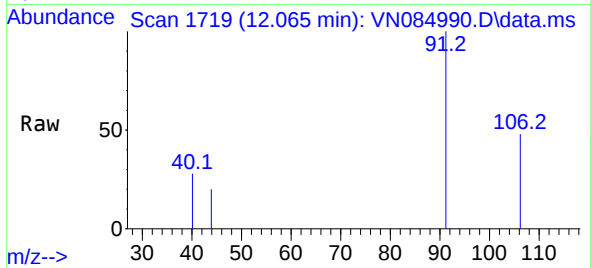




#67
m/p-Xylenes
Concen: 0.276 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

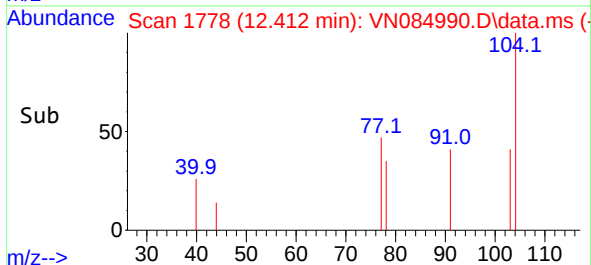
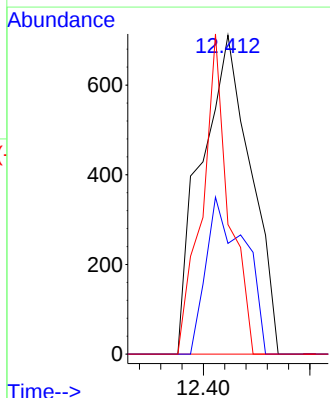
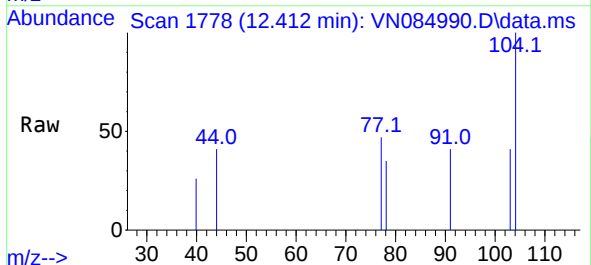
Instrument :
MSVOA_N
ClientSampleId :

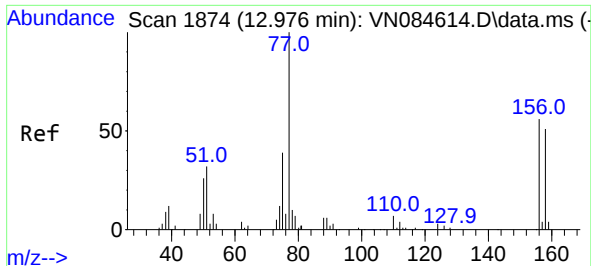
Tgt Ion:106 Resp: 785
Ion Ratio Lower Upper
106 100
91 251.2 168.1 252.1



#69
Styrene
Concen: 0.250 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

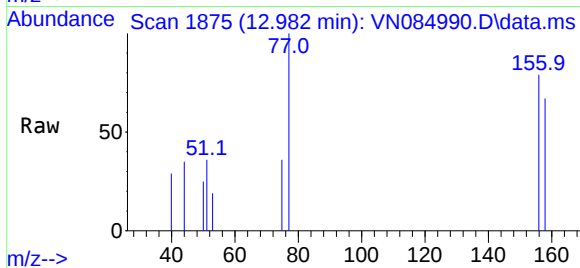
Tgt Ion:104 Resp: 1150
Ion Ratio Lower Upper
104 100
78 23.1 41.5 62.3#
103 54.1 44.6 67.0



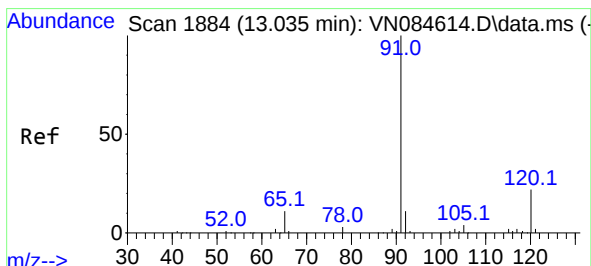
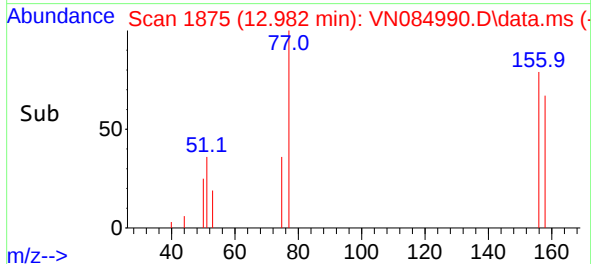
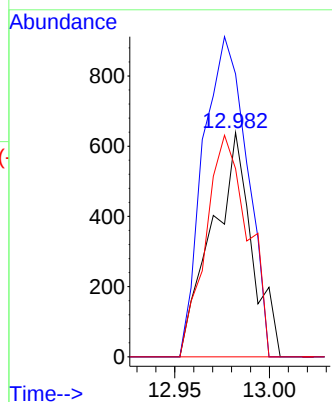


#73
Bromobenzene
Concen: 0.529 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Instrument :
MSVOA_N
ClientSampleId :

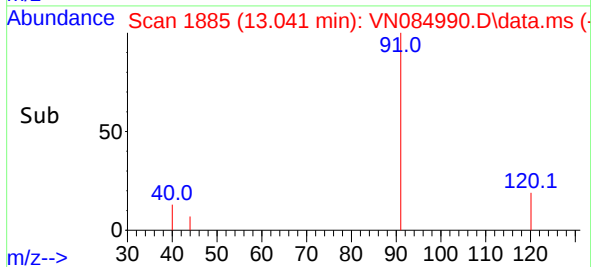
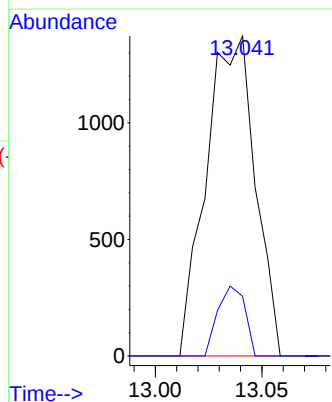
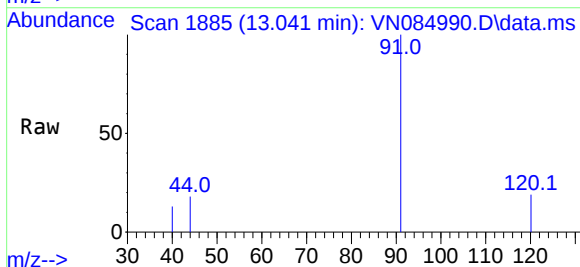


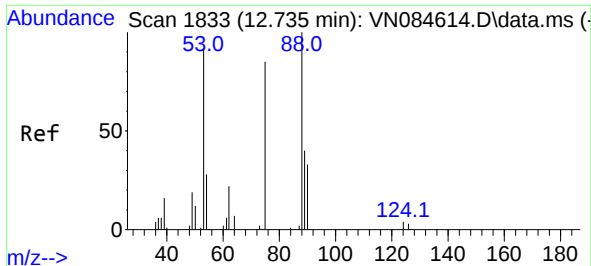
Tgt Ion:156 Resp: 928
Ion Ratio Lower Upper
156 100
77 158.5 0.0 427.6
158 105.2 0.0 191.6



#74
n-propylbenzene
Concen: 0.276 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Tgt Ion: 91 Resp: 2194
Ion Ratio Lower Upper
91 100
120 12.1 0.0 44.0

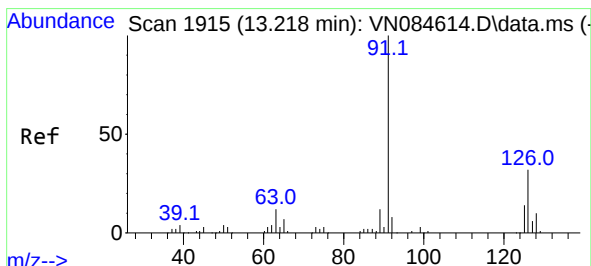
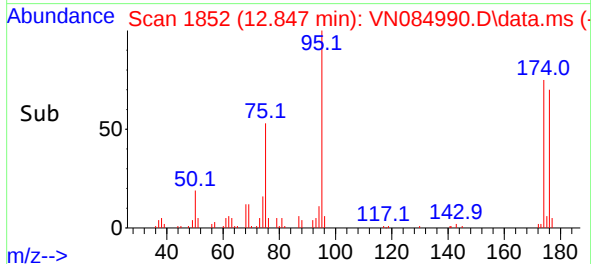
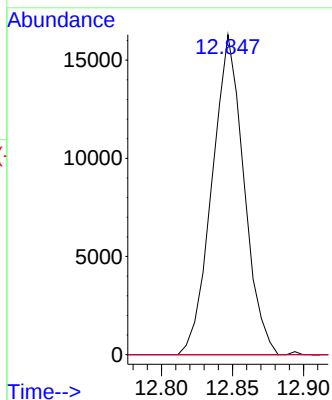
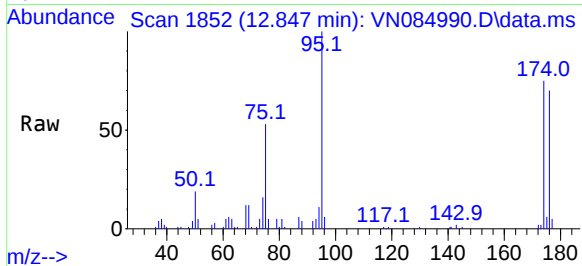




#77
t-1,4-Dichloro-2-butene
Concen: 32.916 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

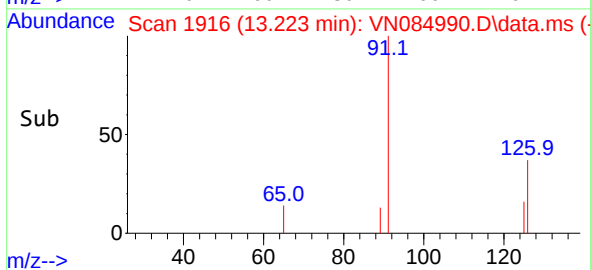
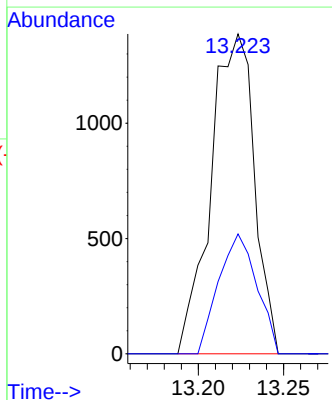
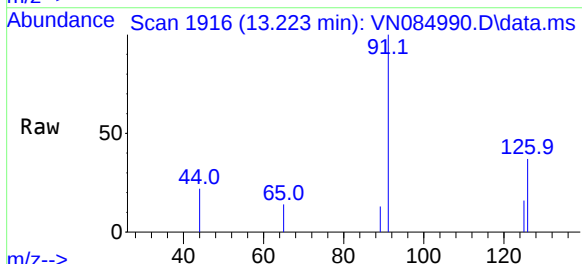
Instrument :
MSVOA_N
ClientSampleId :

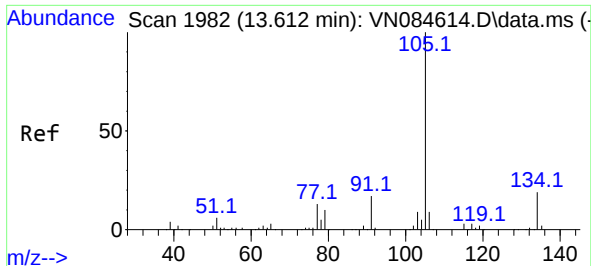
Tgt Ion: 75 Resp: 25432
Ion Ratio Lower Upper
75 100
53 0.0 52.4 157.2#
89 0.0 26.0 78.0#



#78
4-Chlorotoluene
Concen: 0.470 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Tgt Ion: 91 Resp: 2462
Ion Ratio Lower Upper
91 100
126 32.9 0.0 63.4

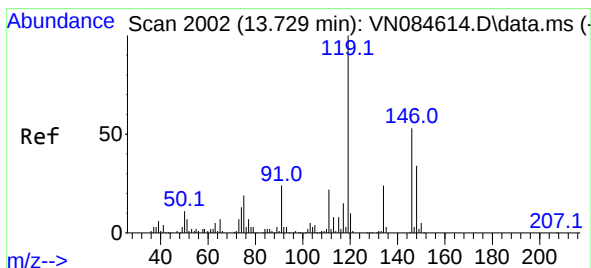
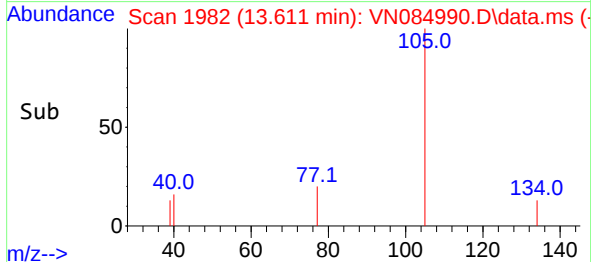
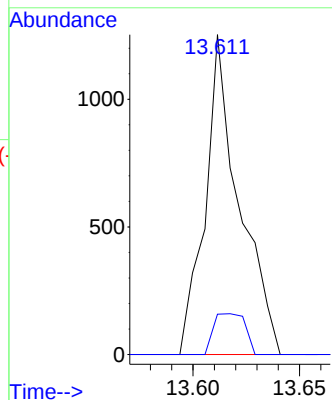
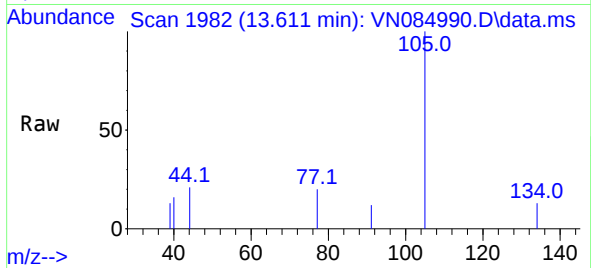




#81
sec-Butylbenzene
Concen: 0.210 ug/l
RT: 13.611 min Scan# 1982
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

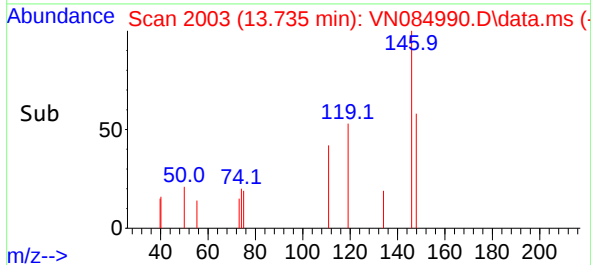
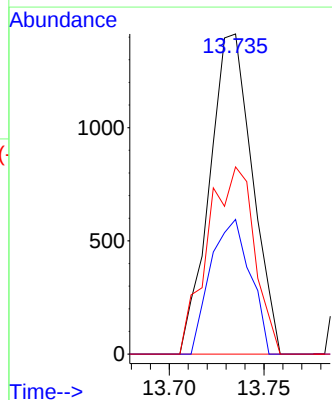
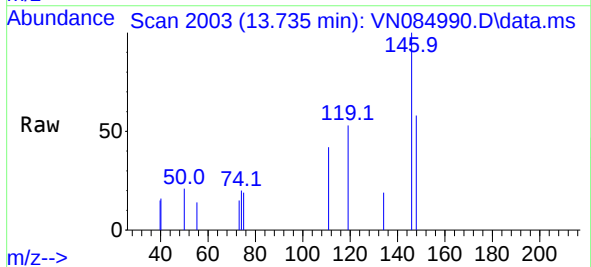
Instrument :
MSVOA_N
ClientSampleId :

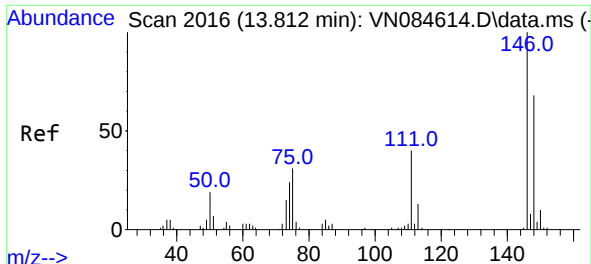
Tgt Ion:105 Resp: 1390
Ion Ratio Lower Upper
105 100
134 11.9 0.0 39.0



#83
1,3-Dichlorobenzene
Concen: 0.685 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

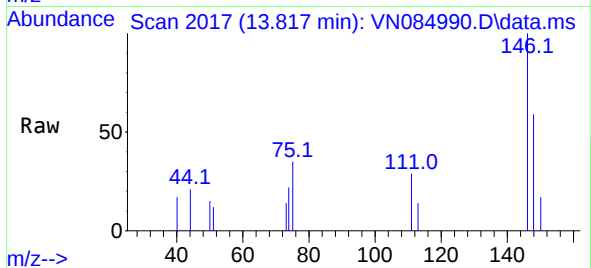
Tgt Ion:146 Resp: 2224
Ion Ratio Lower Upper
146 100
111 39.1 21.0 63.0
148 64.0 31.3 93.8



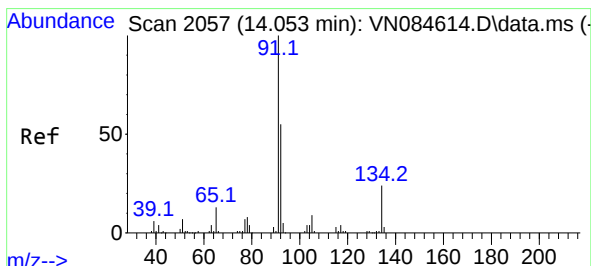
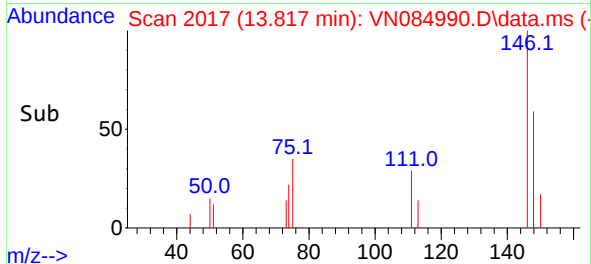
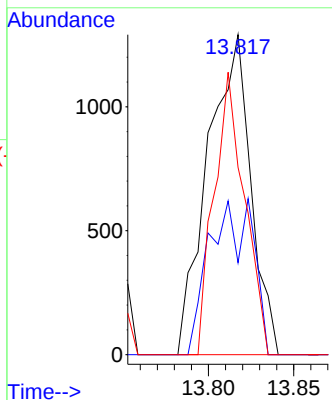


#84
1,4-Dichlorobenzene
Concen: 0.705 ug/l
RT: 13.817 min Scan# 2016
Delta R.T. 0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Instrument :
MSVOA_N
ClientSampleId :

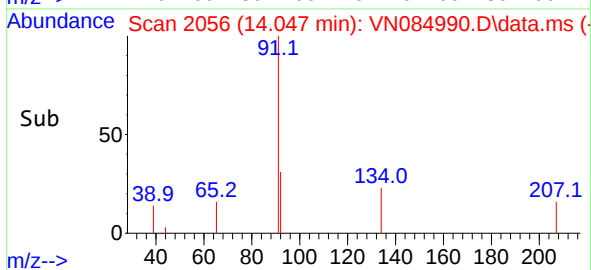
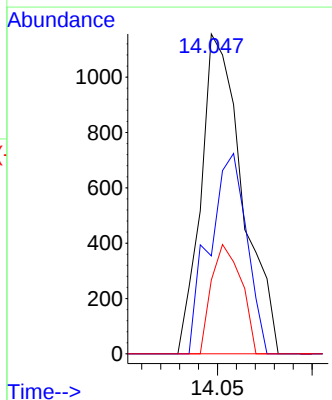
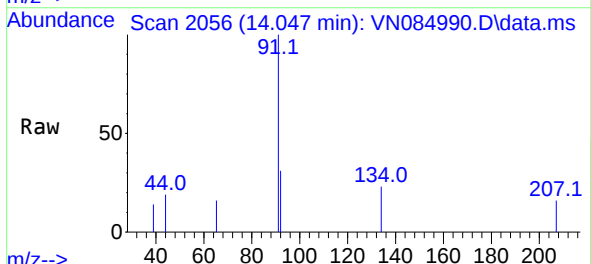


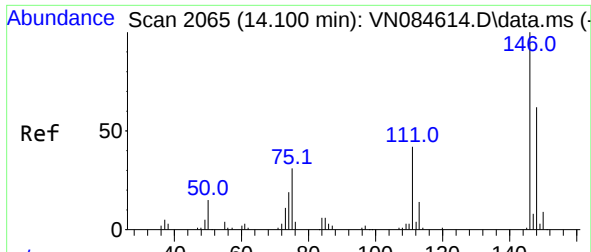
Tgt Ion:146 Resp: 2263
Ion Ratio Lower Upper
146 100
111 33.3 20.2 60.5
148 62.5 32.6 98.0



#85
n-Butylbenzene
Concen: 0.376 ug/l
RT: 14.047 min Scan# 2056
Delta R.T. -0.006 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

Tgt Ion: 91 Resp: 1759
Ion Ratio Lower Upper
91 100
92 56.5 0.0 106.2
134 24.7 0.0 48.2





#87

1,2-Dichlorobenzene

Concen: 0.420 ug/l

RT: 14.111 min Scan# 2067

Delta R.T. 0.012 min

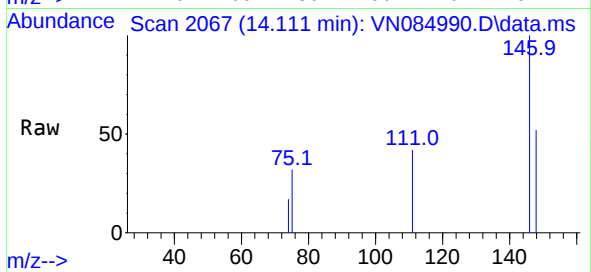
Lab File: VN084990.D

Acq: 21 Nov 2024 11:43

Instrument :

MSVOA_N

ClientSampleId :



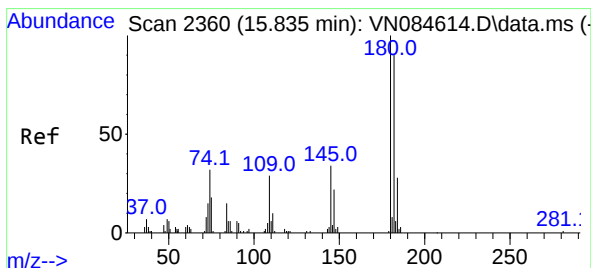
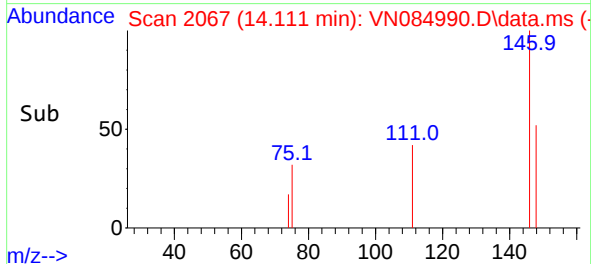
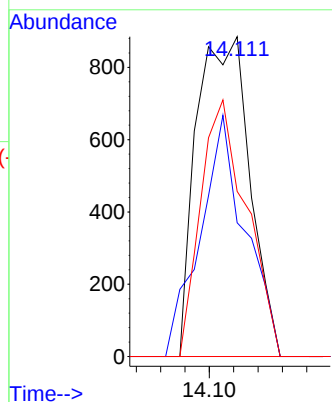
Tgt Ion:146 Resp: 1345

Ion Ratio Lower Upper

146 100

111 63.7 22.4 67.0

148 69.2 32.6 98.0



#89

1,2,4-Trichlorobenzene

Concen: 1.238 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN084990.D

Acq: 21 Nov 2024 11:43

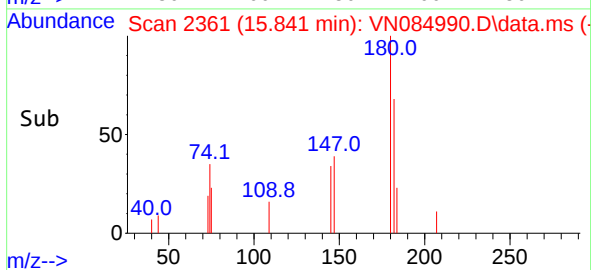
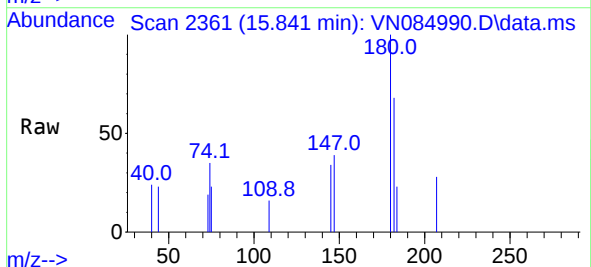
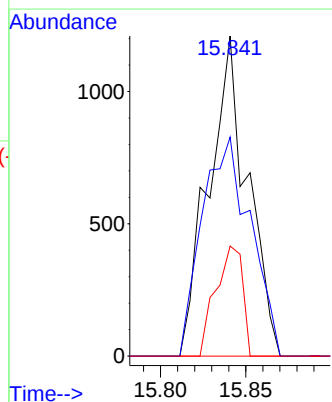
Tgt Ion:180 Resp: 1928

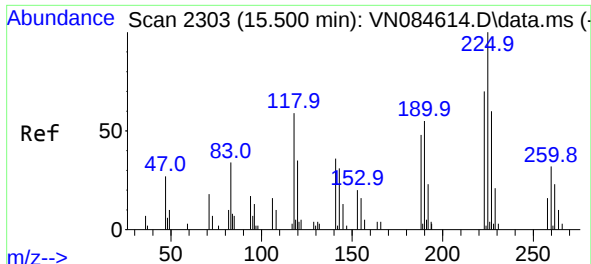
Ion Ratio Lower Upper

180 100

182 84.5 73.0 109.6

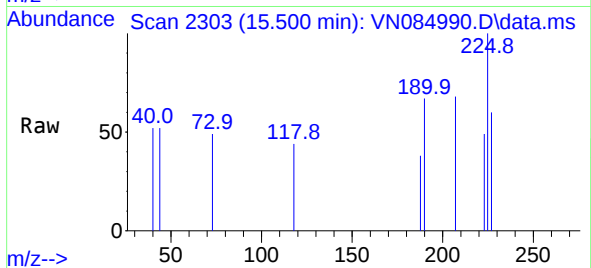
145 23.6 26.5 39.7#



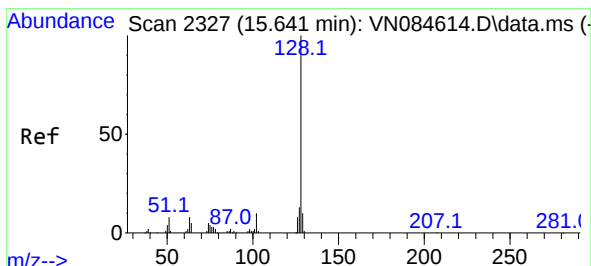
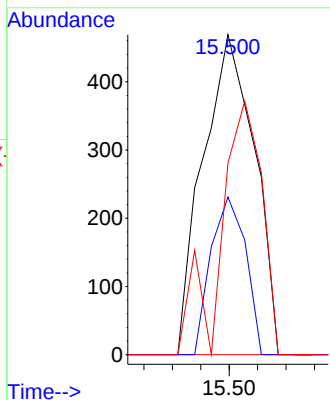
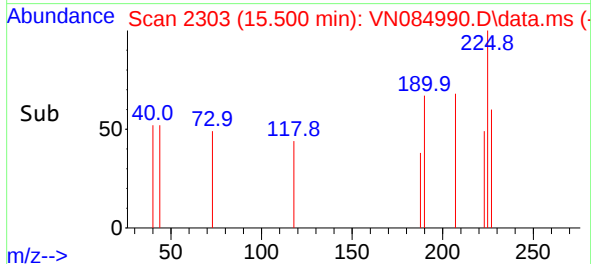


#90
Hexachlorobutadiene
Concen: 0.867 ug/l
RT: 15.500 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43

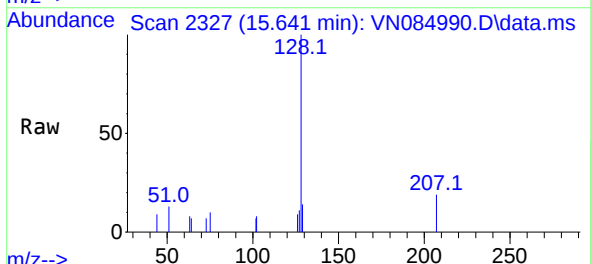
Instrument :
MSVOA_N
ClientSampleId :



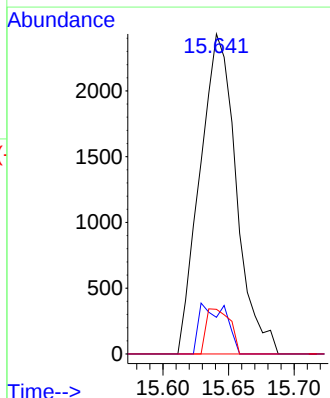
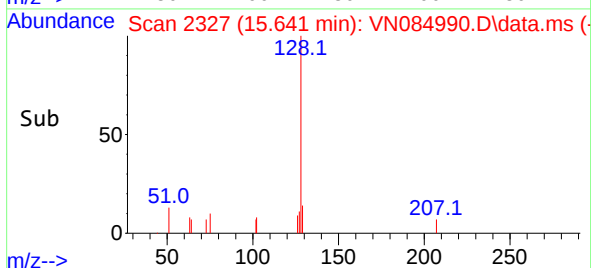
Tgt Ion:225 Resp: 590
Ion Ratio Lower Upper
225 100
223 33.2 0.0 138.8
227 55.1 0.0 123.2

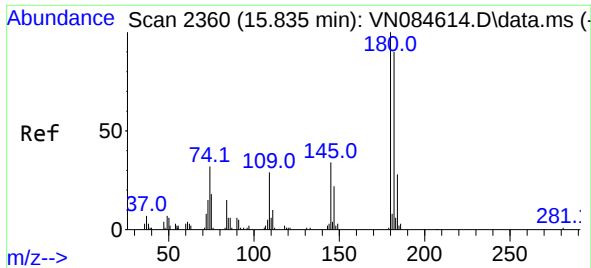


#91
Naphthalene
Concen: 0.943 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN084990.D
Acq: 21 Nov 2024 11:43



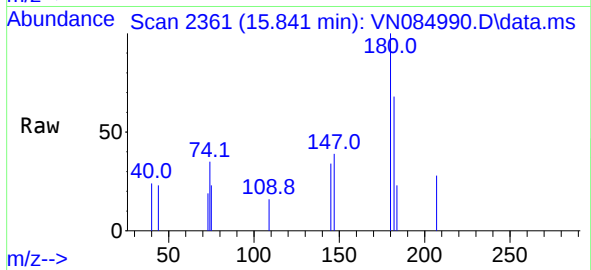
Tgt Ion:128 Resp: 4691
Ion Ratio Lower Upper
128 100
127 4.1 10.3 15.5#
129 9.2 8.6 12.8





#92
 1,2,3-Trichlorobenzene
 Concen: 1.238 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN084990.D
 Acq: 21 Nov 2024 11:43

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1928
Ion	Ratio	Lower	Upper
180	100		
182	84.5	0.0	182.6
145	23.6	0.0	66.2

