

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112124\
 Data File : VN084991.D
 Acq On : 21 Nov 2024 12:18
 Operator : JC\MD
 Sample : P4853-01DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 21 14:43:30 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)

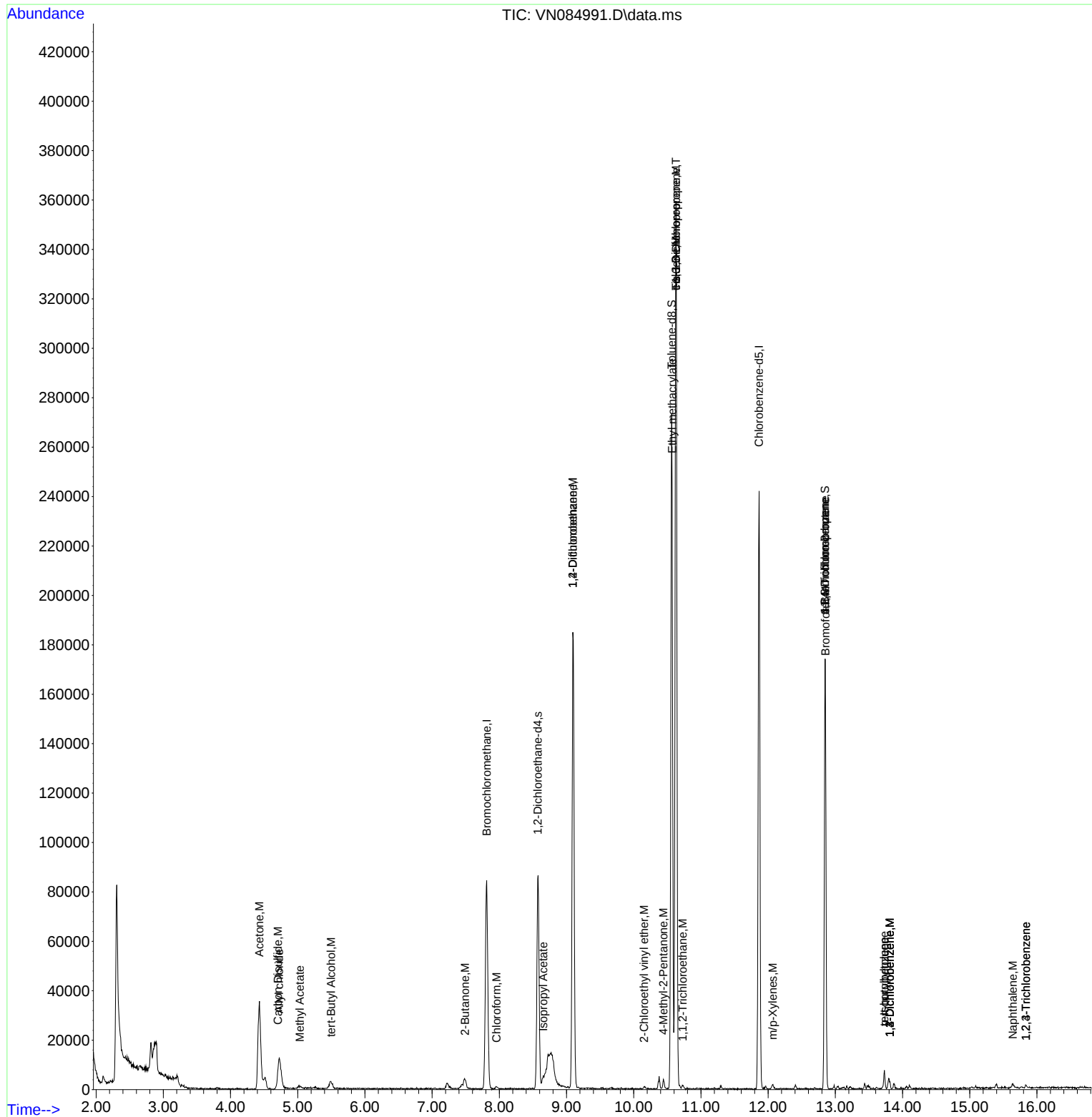
Internal Standards						
1) Bromochloromethane	7.812	128	29935	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	160655	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	138636	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	74063	30.775	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.567%
60) 4-Bromofluorobenzene	12.847	95	61511	25.768	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	85.900%
63) Toluene-d8	10.565	98	186234	28.376	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.600%
Target Compounds						
					Qvalue	
12) Methyl Acetate	5.030	43	1175	0.432	ug/l #	52
15) Acetone	4.430	58	21336	93.342	ug/l	96
16) Carbon Disulfide	4.706	76	2808	0.547	ug/l #	77
17) Allyl chloride	4.724	41	1025	0.345	ug/l	68
23) tert-Butyl Alcohol	5.495	59	465	1.497	ug/l #	100
25) Chloroform	7.959	83	968	0.264	ug/l #	50
30) 2-Butanone	7.489	43	7792	6.981	ug/l #	79
36) 1,2-Dichloroethane	9.094	62	5661	2.128	ug/l #	74
44) Isopropyl Acetate	8.653	43	3487	0.734	ug/l	96
48) t-1,3-Dichloropropene	10.630	75	1956	0.686	ug/l #	1
49) cis-1,3-Dichloropropene	10.630	75	1956	0.640	ug/l #	1
50) 1,1,2-Trichloroethane	10.730	97	1029	0.570	ug/l #	13
51) Ethyl methacrylate	10.571	69	649	0.233	ug/l #	70
55) 2-Chloroethyl vinyl ether	10.153	63	313	0.229	ug/l #	45
56) Bromoform	12.853	173	626	0.442	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	2783	1.272	ug/l #	70
62) Toluene	10.630	91	274179	34.723	ug/l	99
67) m/p-Xylenes	12.071	106	855	0.269	ug/l #	43
72) 1,2,3-Trichloropropane	12.847	75	32067	15.219	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	32067	37.107	ug/l #	7
79) tert-butylbenzene	13.729	119	3786	0.704	ug/l	56
82) p-Isopropyltoluene	13.729	119	3786	0.608	ug/l	94
83) 1,3-Dichlorobenzene	13.812	146	1258	0.346	ug/l	79
84) 1,4-Dichlorobenzene	13.812	146	1258	0.351	ug/l	78
87) 1,2-Dichlorobenzene	13.812	146	1258	0.352	ug/l	76
89) 1,2,4-Trichlorobenzene	15.835	180	389	0.223	ug/l #	80
91) Naphthalene	15.641	128	2261	0.406	ug/l #	87
92) 1,2,3-Trichlorobenzene	15.835	180	389	0.223	ug/l	80

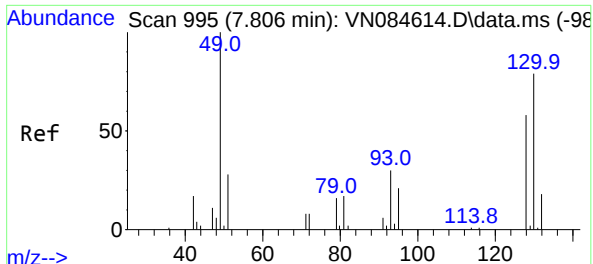
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

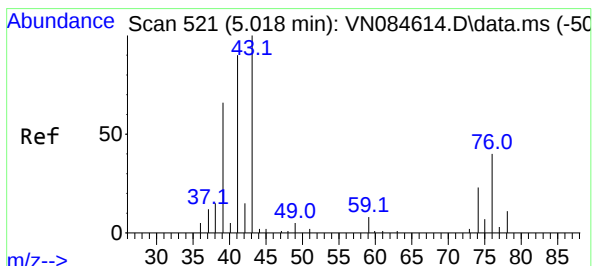
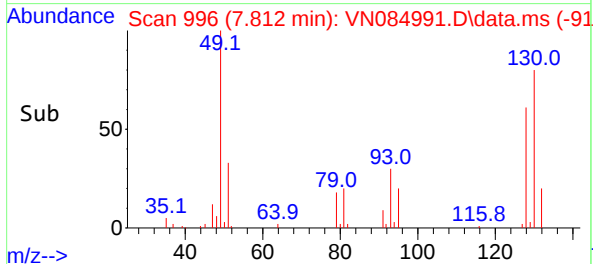
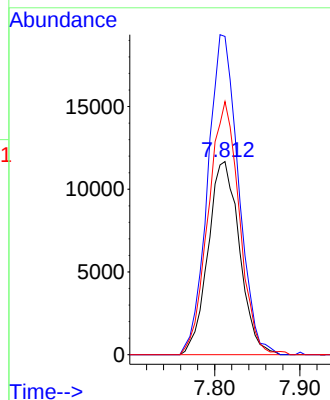
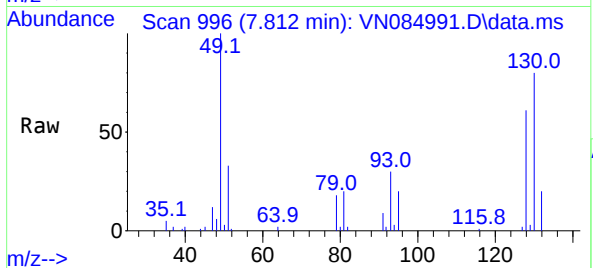




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 995
Delta R.T. 0.006 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

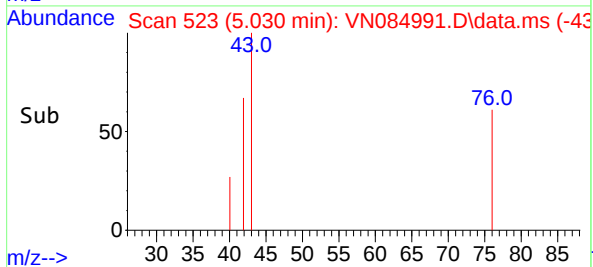
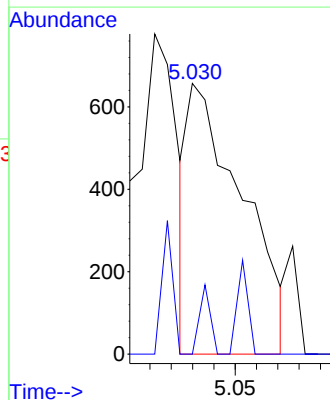
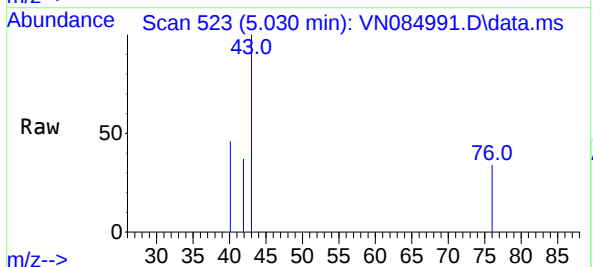
Instrument :
MSVOA_N
ClientSampleId :

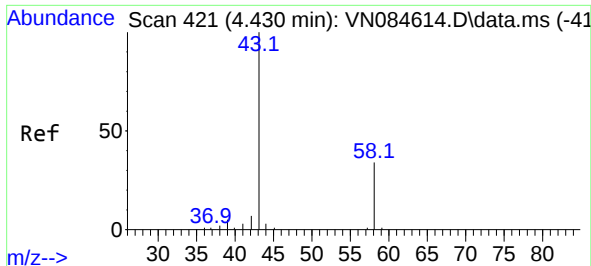
Tgt Ion:128 Resp: 29935
Ion Ratio Lower Upper
128 100
49 162.0 0.0 427.0
130 128.9 0.0 322.2



#12
Methyl Acetate
Concen: 0.432 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion: 43 Resp: 1175
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.4#





#15

Acetone

Concen: 93.342 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN084991.D

Acq: 21 Nov 2024 12:18

Instrument :

MSVOA_N

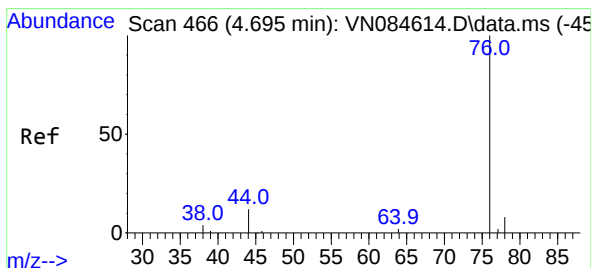
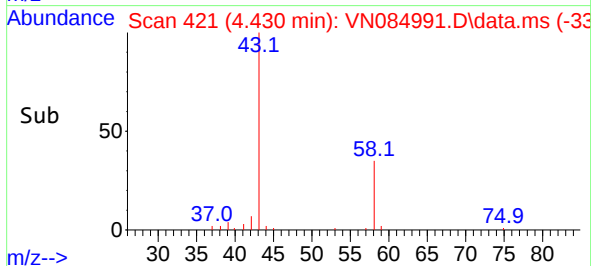
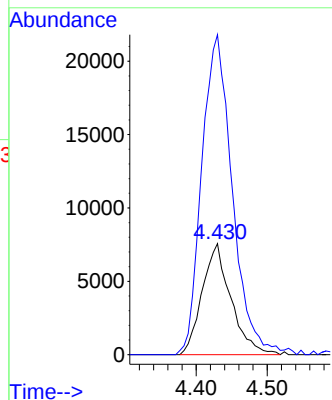
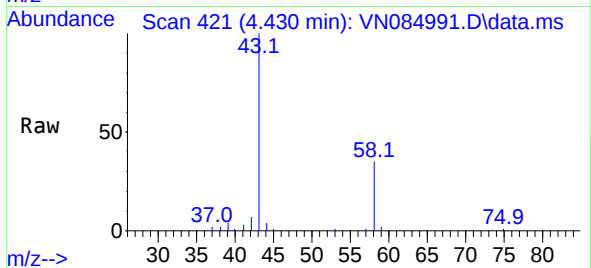
ClientSampleId :

Tgt Ion: 58 Resp: 21336

Ion Ratio Lower Upper

58 100

43 284.5 233.0 349.6



#16

Carbon Disulfide

Concen: 0.547 ug/l

RT: 4.706 min Scan# 468

Delta R.T. 0.012 min

Lab File: VN084991.D

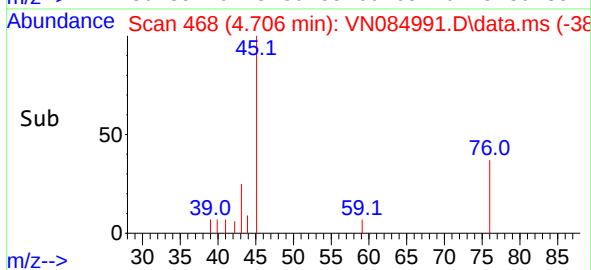
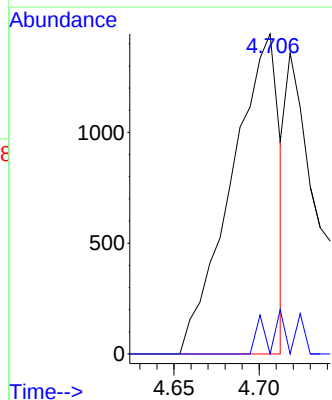
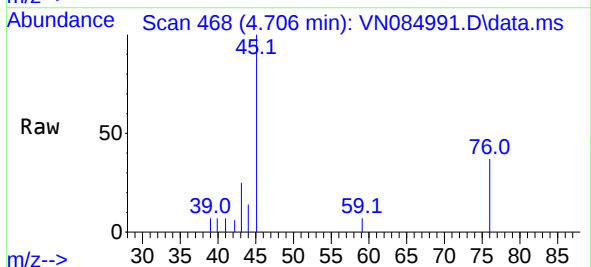
Acq: 21 Nov 2024 12:18

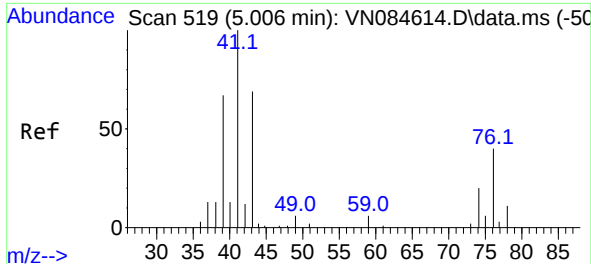
Tgt Ion: 76 Resp: 2808

Ion Ratio Lower Upper

76 100

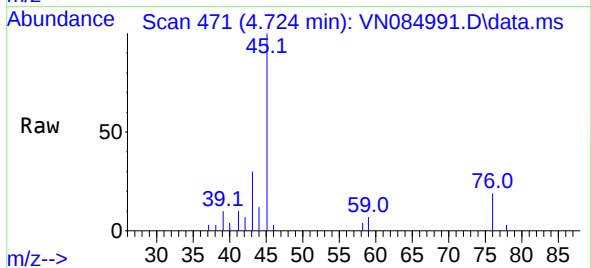
78 0.0 6.6 9.8#





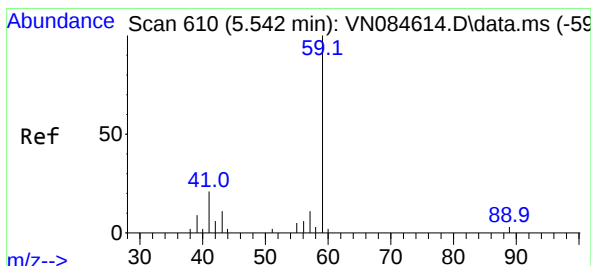
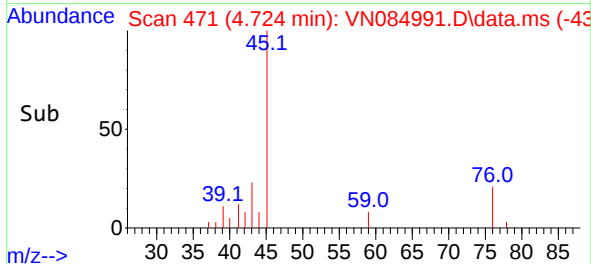
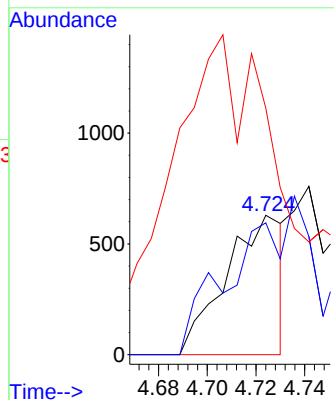
#17
 Allyl chloride
 Concen: 0.345 ug/l
 RT: 4.724 min Scan# 41
 Delta R.T. -0.282 min
 Lab File: VN084991.D
 Acq: 21 Nov 2024 12:18

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 41 Resp: 1025

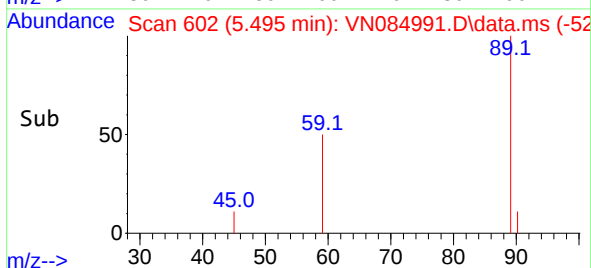
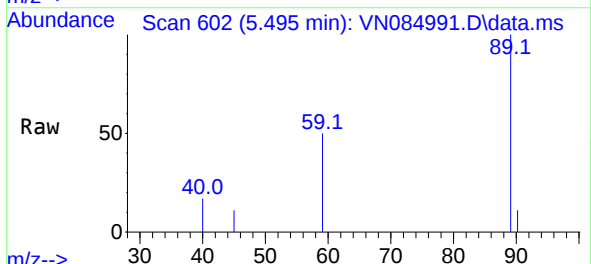
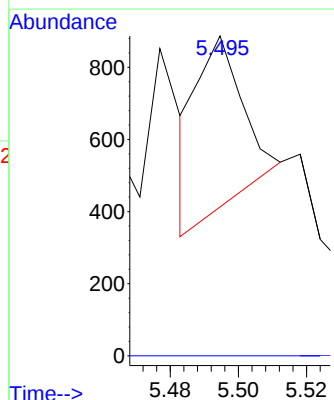
Ion	Ratio	Lower	Upper
41	100		
39	94.6	33.4	100.2
76	56.9	20.2	60.6

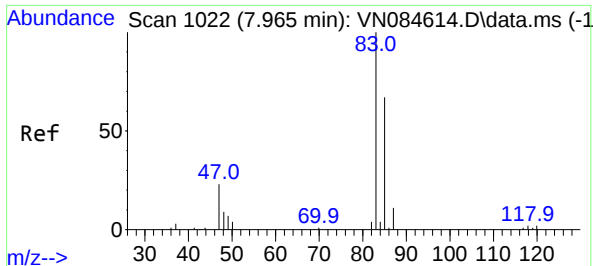


#23
 tert-Butyl Alcohol
 Concen: 1.497 ug/l
 RT: 5.495 min Scan# 602
 Delta R.T. -0.047 min
 Lab File: VN084991.D
 Acq: 21 Nov 2024 12:18

Tgt Ion: 59 Resp: 465

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

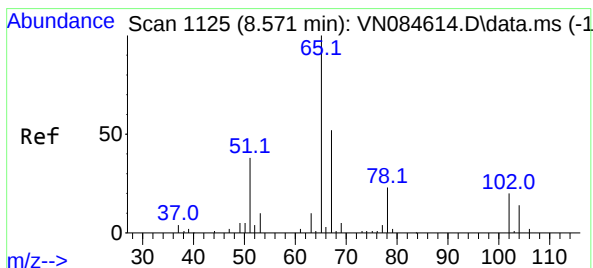
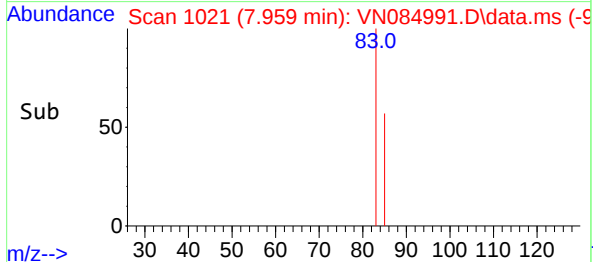
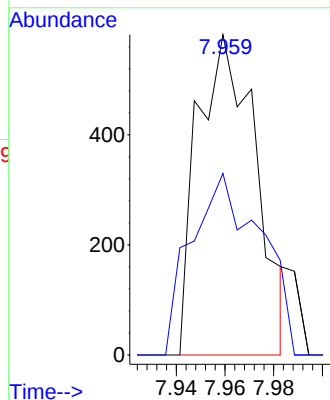
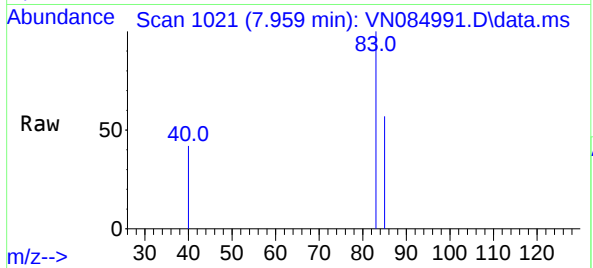




#25
Chloroform
Concen: 0.264 ug/l
RT: 7.959 min Scan# 1022
Delta R.T. -0.006 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

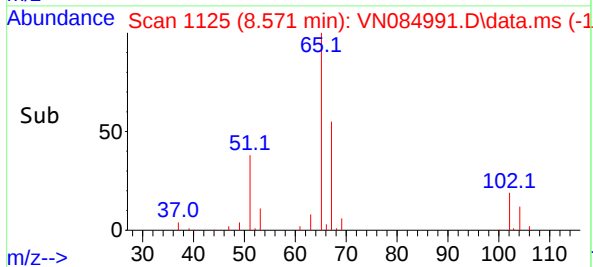
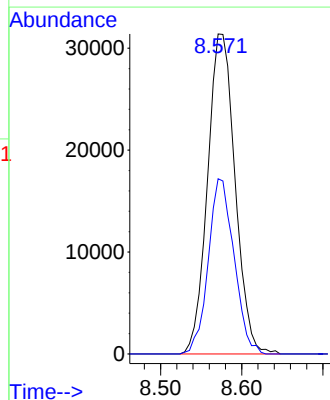
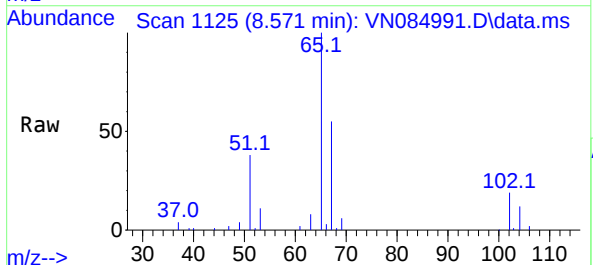
Instrument :
MSVOA_N
ClientSampleId :

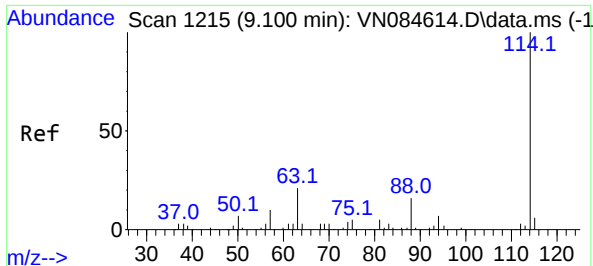
Tgt Ion: 83 Resp: 968
Ion Ratio Lower Upper
83 100
85 27.1 53.4 80.2#



#27
1,2-Dichloroethane-d4
Concen: 30.775 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion: 65 Resp: 74063
Ion Ratio Lower Upper
65 100
67 51.1 40.7 61.1

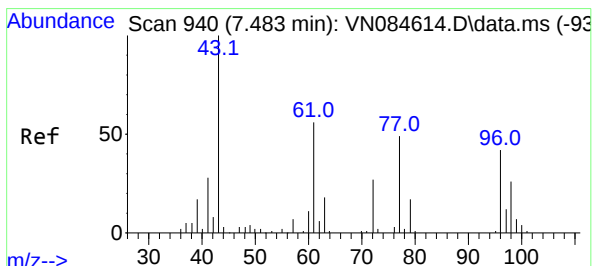
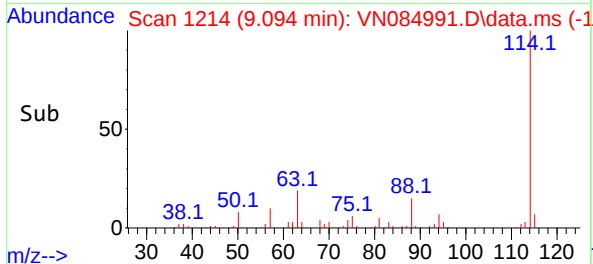
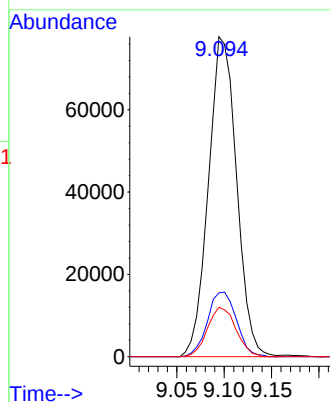
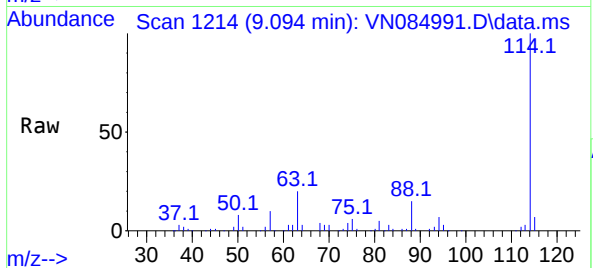




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.094 min Scan# 114
Delta R.T. -0.006 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

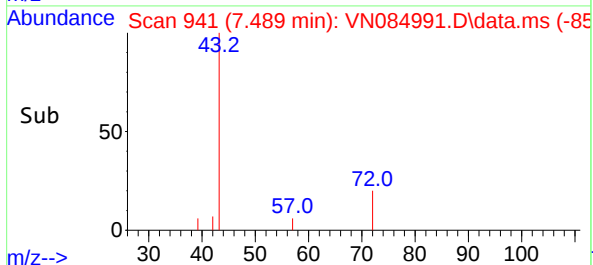
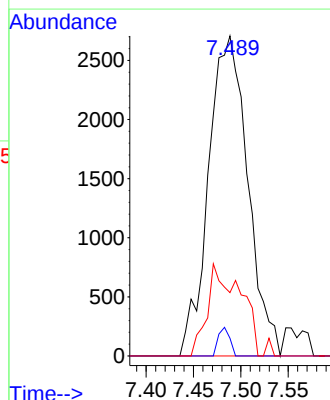
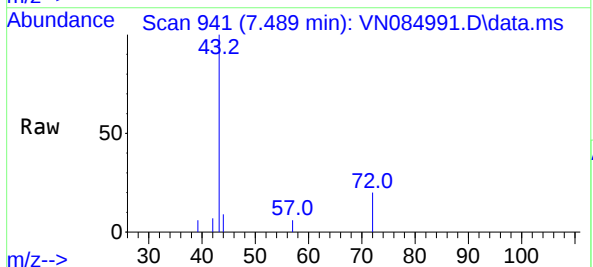
Instrument :
MSVOA_N
ClientSampleId :

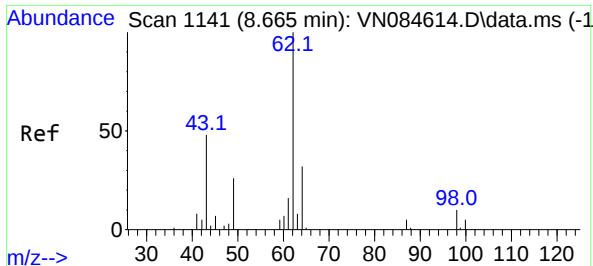
Tgt Ion:114 Resp: 160655
Ion Ratio Lower Upper
114 100
63 20.8 16.8 25.2
88 15.6 12.9 19.3



#30
2-Butanone
Concen: 6.981 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion: 43 Resp: 7792
Ion Ratio Lower Upper
43 100
57 2.6 6.2 9.4#
72 14.8 21.5 32.3#

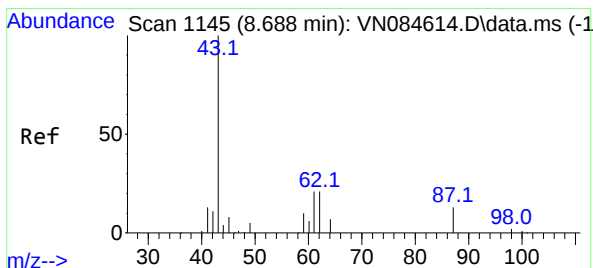
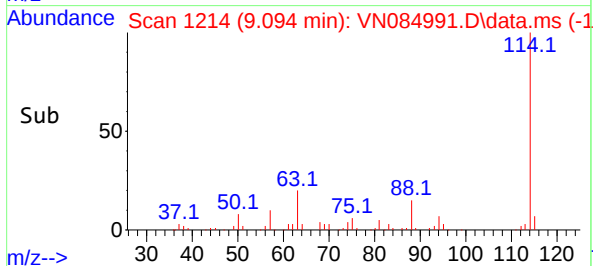
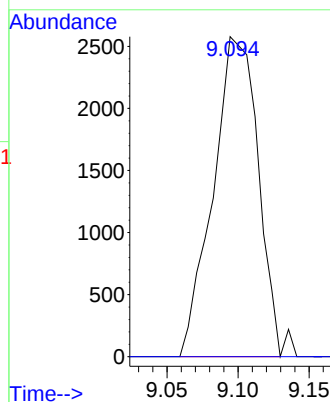
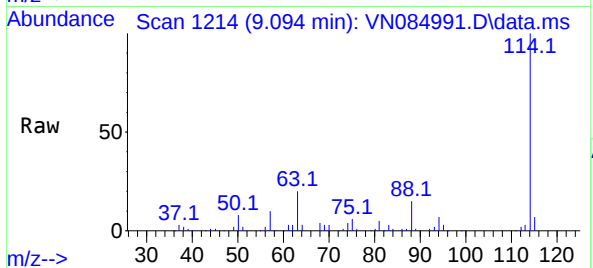




#36
1,2-Dichloroethane
Concen: 2.128 ug/l
RT: 9.094 min Scan# 1139
Delta R.T. 0.429 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

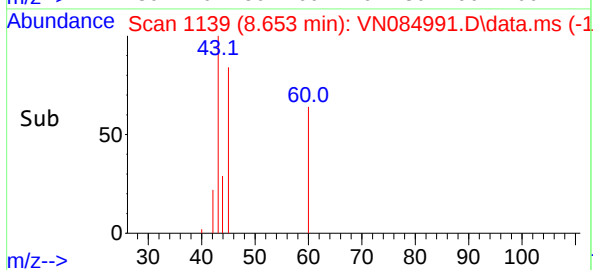
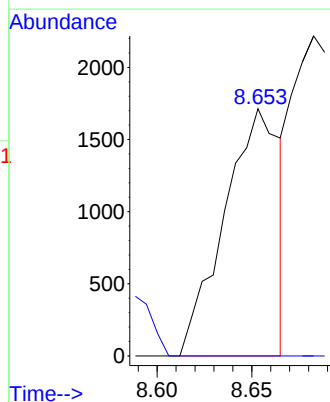
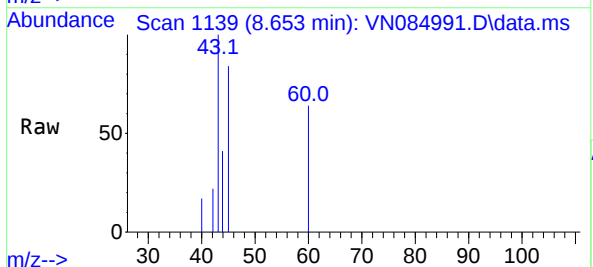
Instrument :
MSVOA_N
ClientSampleId :

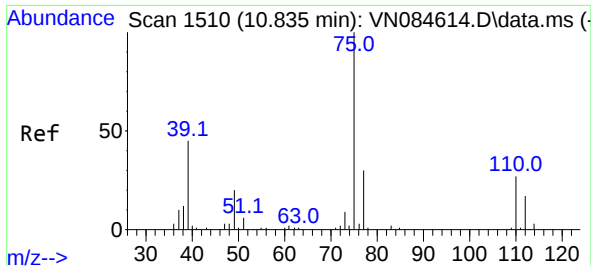
Tgt Ion: 62 Resp: 5661
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.6#



#44
Isopropyl Acetate
Concen: 0.734 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. -0.035 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion: 43 Resp: 3487
Ion Ratio Lower Upper
43 100
61 26.8 19.8 29.8

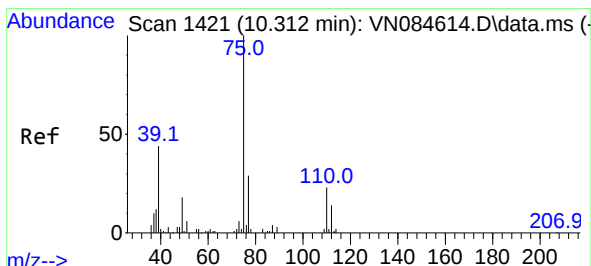
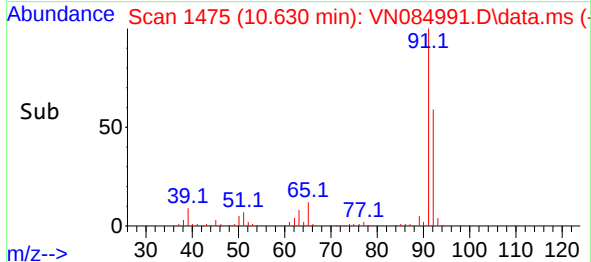
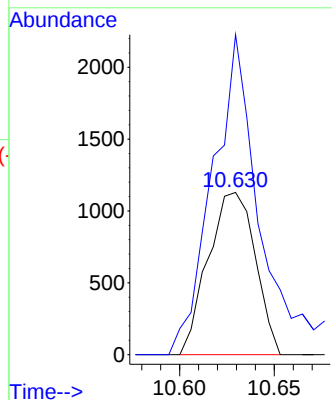
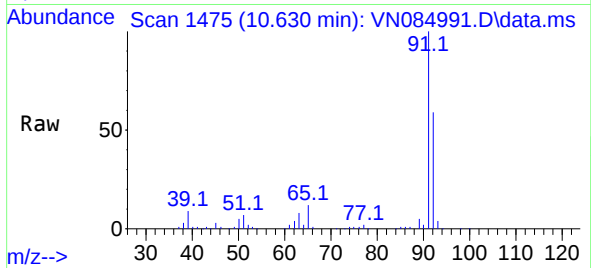




#48
t-1,3-Dichloropropene
Concen: 0.686 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.206 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

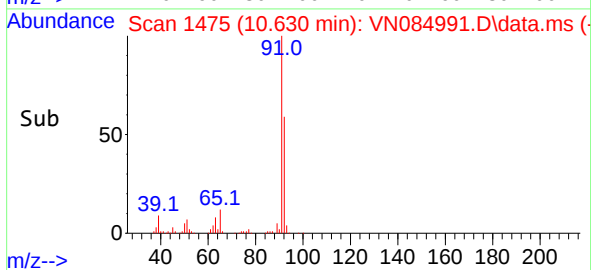
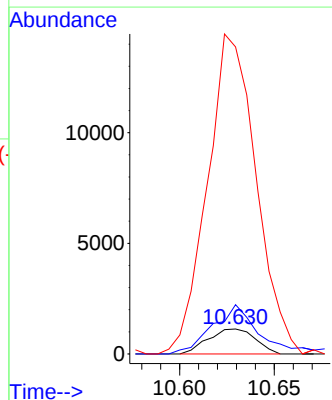
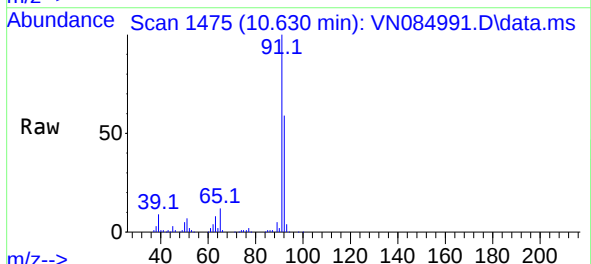
Instrument :
MSVOA_N
ClientSampleId :

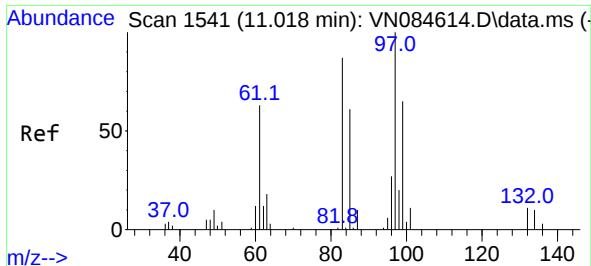
Tgt Ion: 75 Resp: 1956
Ion Ratio Lower Upper
75 100
77 181.1 24.4 36.6#



#49
cis-1,3-Dichloropropene
Concen: 0.640 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.318 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

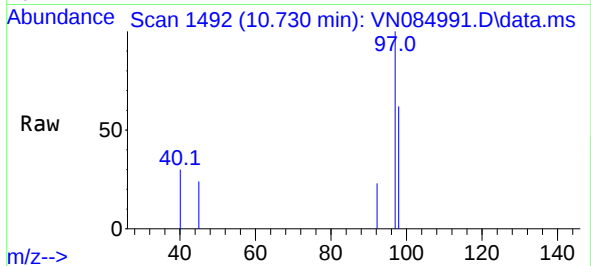
Tgt Ion: 75 Resp: 1956
Ion Ratio Lower Upper
75 100
77 181.1 23.4 35.2#
39 1152.8 35.4 53.2#



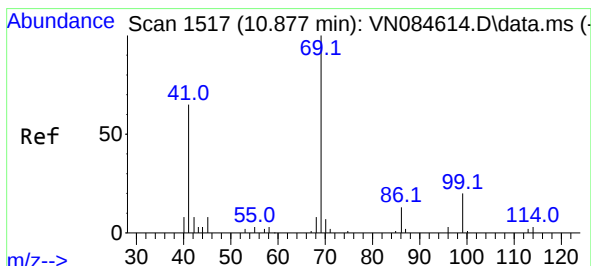
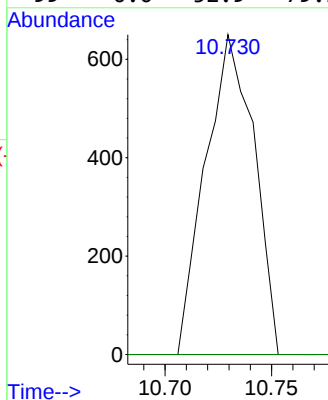
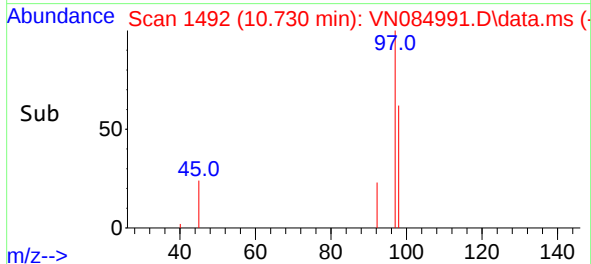


#50
1,1,2-Trichloroethane
Concen: 0.570 ug/l
RT: 10.730 min Scan# 1465
Delta R.T. -0.288 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

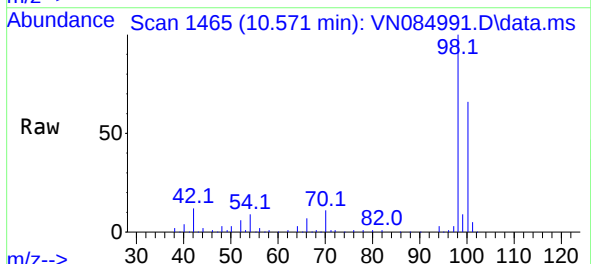
Instrument :
MSVOA_N
ClientSampleId :



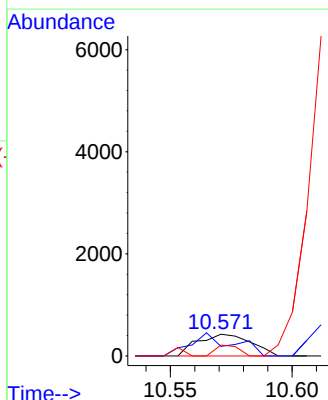
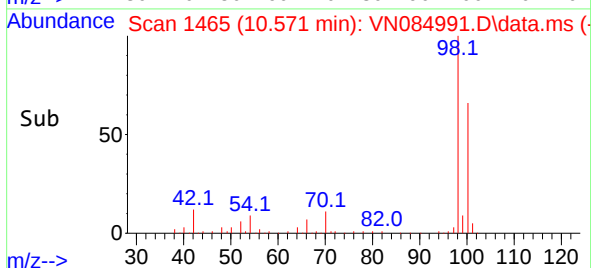
Tgt Ion: 97 Resp: 1029
Ion Ratio Lower Upper
97 100
83 0.0 69.8 104.8#
85 0.0 48.6 73.0#
99 0.0 52.9 79.3#

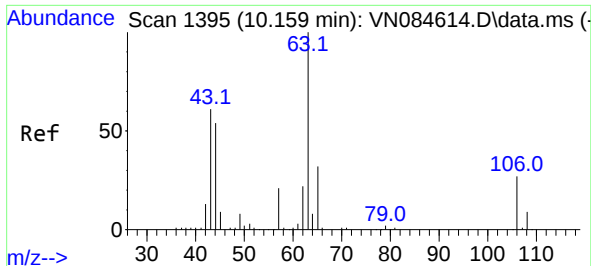


#51
Ethyl methacrylate
Concen: 0.233 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.306 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18



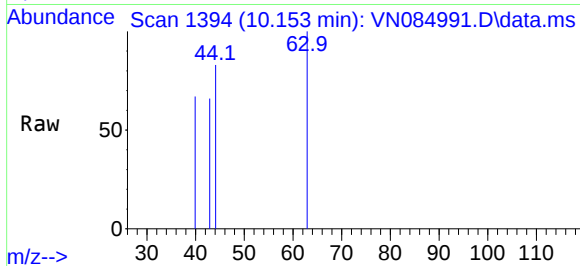
Tgt Ion: 69 Resp: 649
Ion Ratio Lower Upper
69 100
41 44.4 32.8 98.3
39 10.8 15.4 46.1#



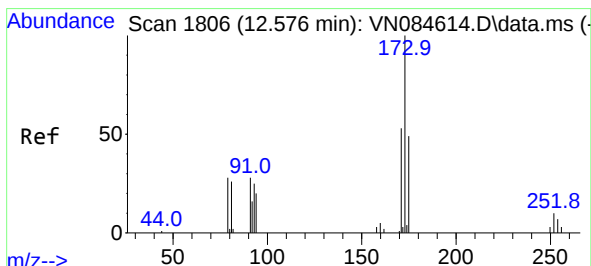
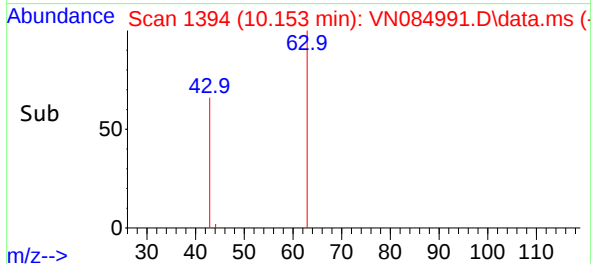
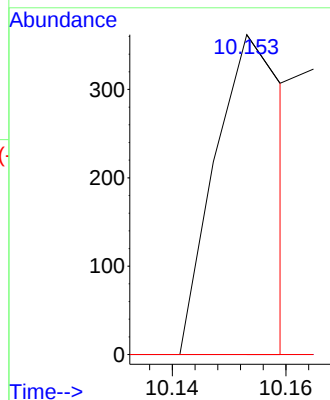


#55
2-Chloroethyl vinyl ether
Concen: 0.229 ug/l
RT: 10.153 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Instrument :
MSVOA_N
ClientSampleId :

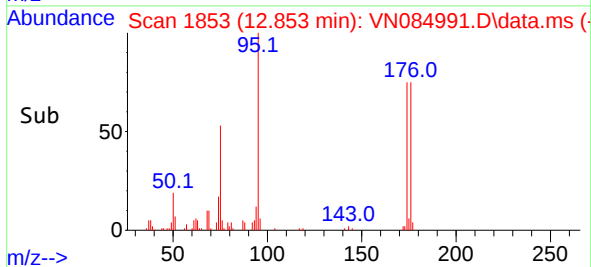
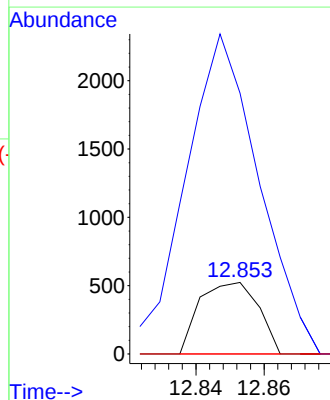
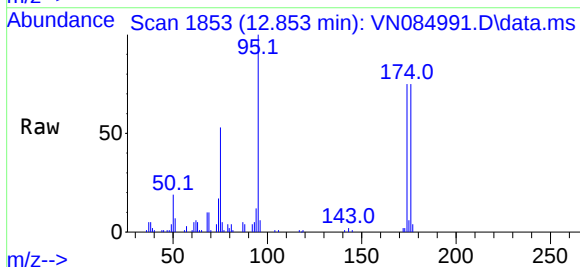


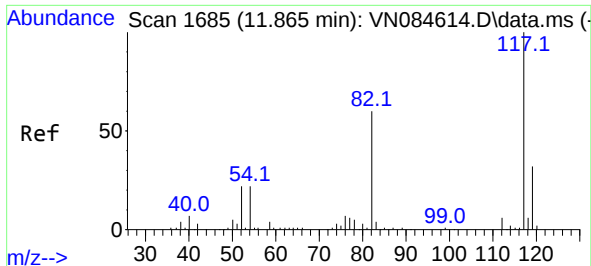
Tgt Ion: 63 Resp: 313
Ion Ratio Lower Upper
63 100
65 0.0 25.5 38.3#
106 0.0 22.3 33.5#



#56
Bromoform
Concen: 0.442 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.277 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

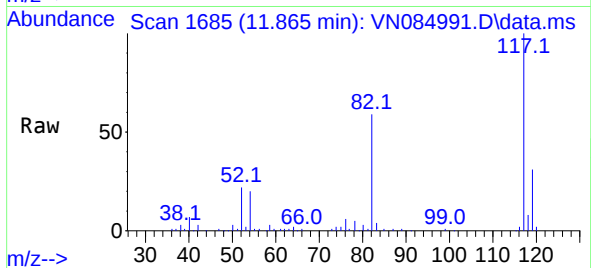
Tgt Ion:173 Resp: 626
Ion Ratio Lower Upper
173 100
175 561.0 39.4 59.2#
254 0.0 6.4 9.6#



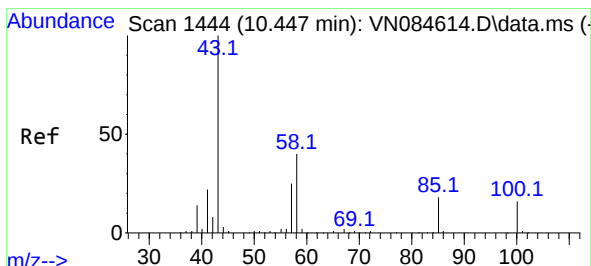
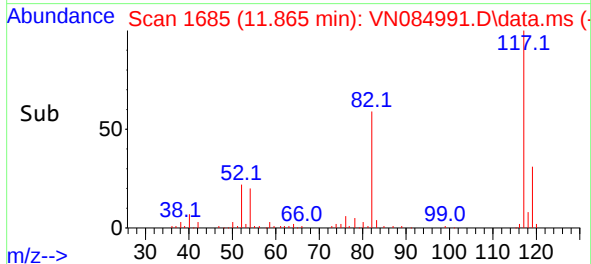
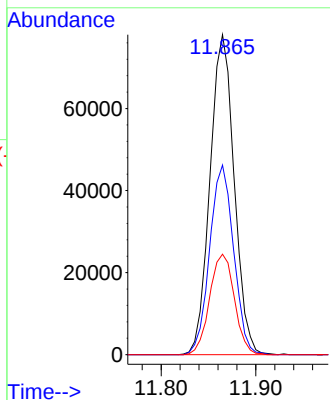


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Instrument :
MSVOA_N
ClientSampleId :

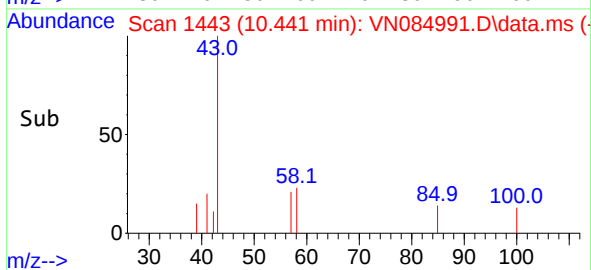
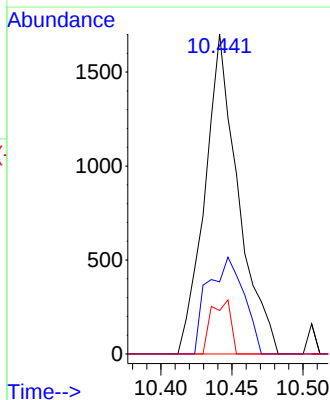
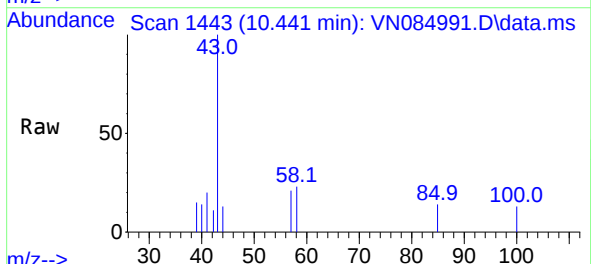


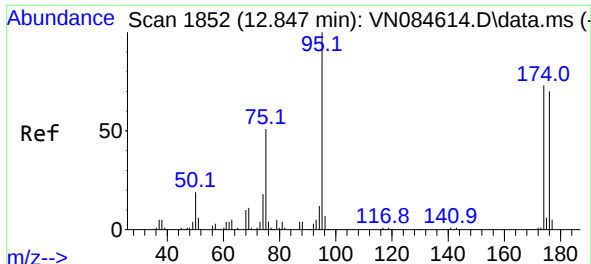
Tgt Ion:117 Resp: 138636
Ion Ratio Lower Upper
117 100
82 58.7 45.5 68.3
119 32.2 25.3 37.9



#58
4-Methyl-2-Pentanone
Concen: 1.272 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion: 43 Resp: 2783
Ion Ratio Lower Upper
43 100
58 18.0 31.2 46.8#
85 9.8 14.9 22.3#

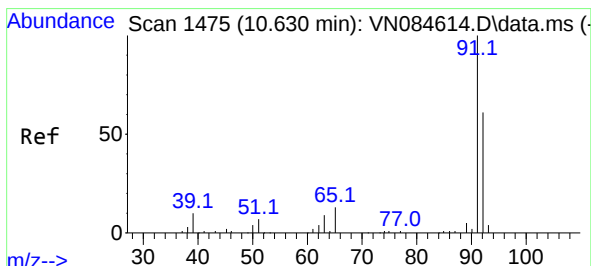
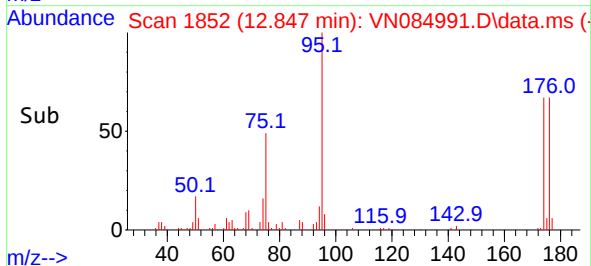
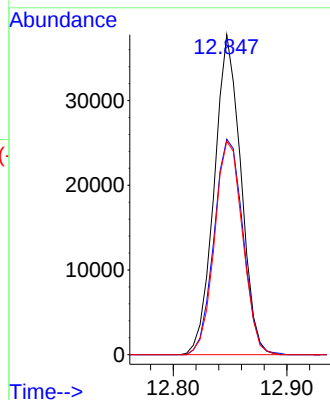
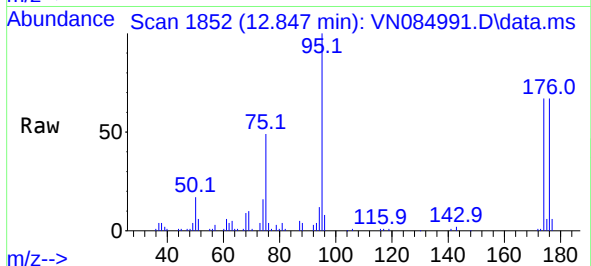




#60
4-Bromofluorobenzene
Concen: 25.768 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

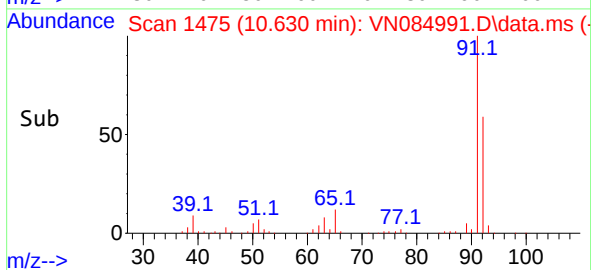
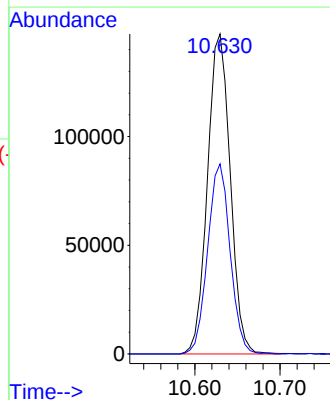
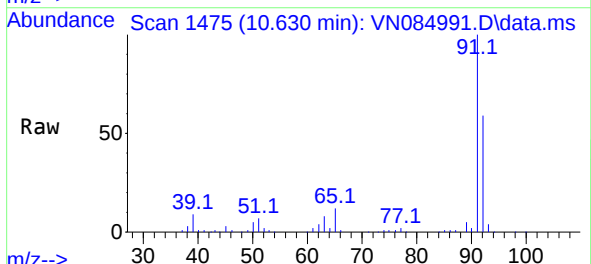
Instrument :
MSVOA_N
ClientSampleId :

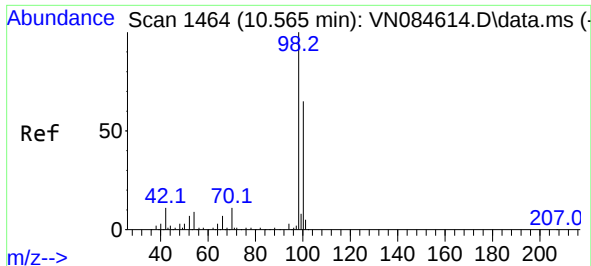
Tgt Ion: 95 Resp: 61511
Ion Ratio Lower Upper
95 100
174 73.2 59.6 89.4
176 70.4 58.6 88.0



#62
Toluene
Concen: 34.723 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

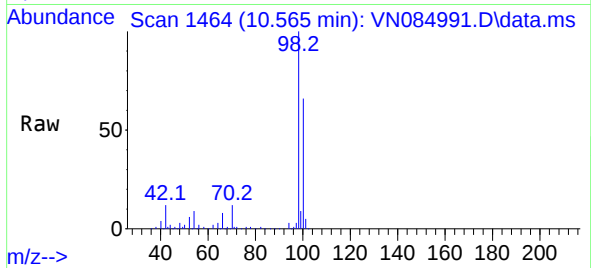
Tgt Ion: 91 Resp: 274179
Ion Ratio Lower Upper
91 100
92 58.4 47.5 71.3



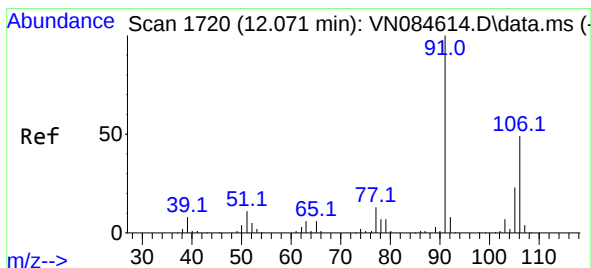
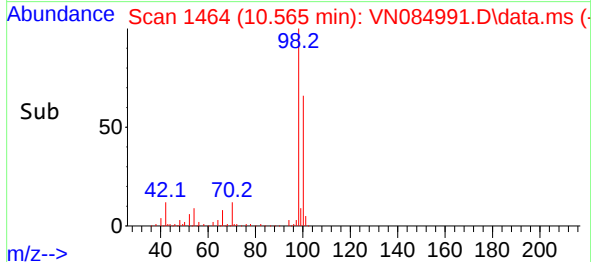
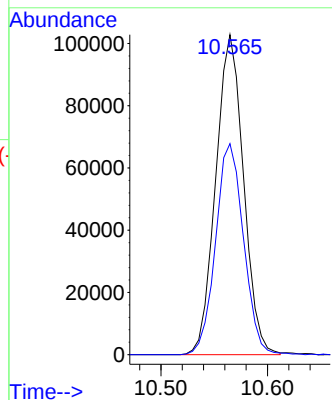


#63
Toluene-d8
Concen: 28.376 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Instrument :
MSVOA_N
ClientSampleId :

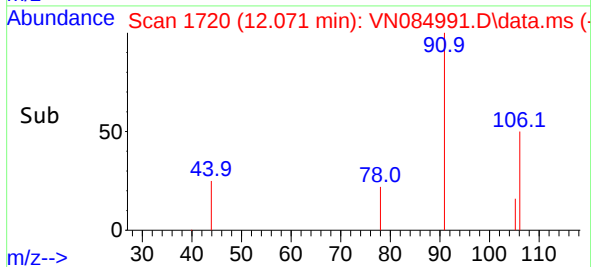
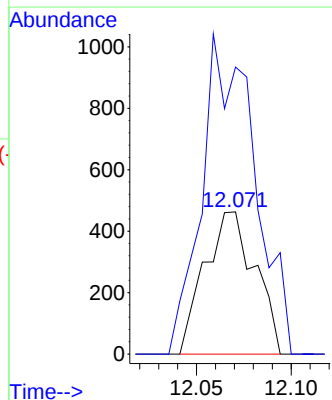
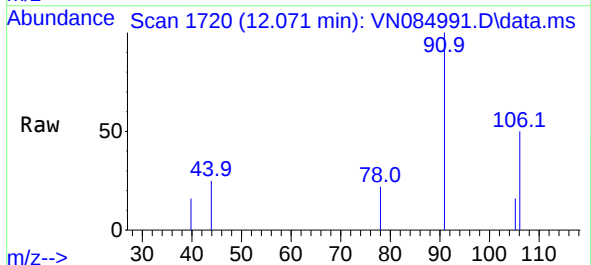


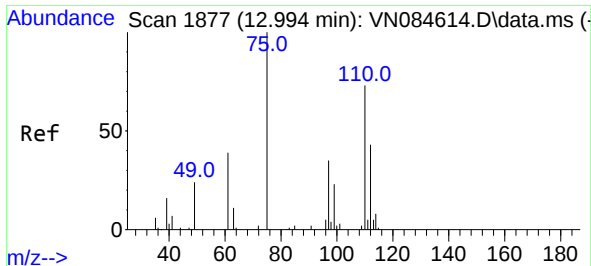
Tgt Ion: 98 Resp: 186234
Ion Ratio Lower Upper
98 100
100 66.4 52.2 78.2



#67
m/p-Xylenes
Concen: 0.269 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion:106 Resp: 855
Ion Ratio Lower Upper
106 100
91 120.4 168.1 252.1#

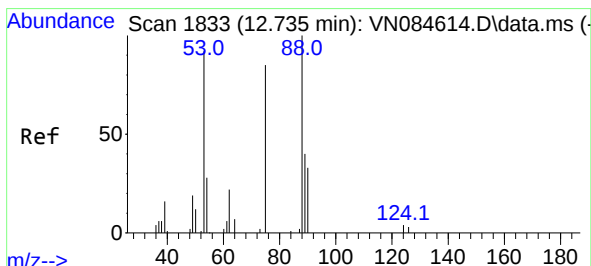
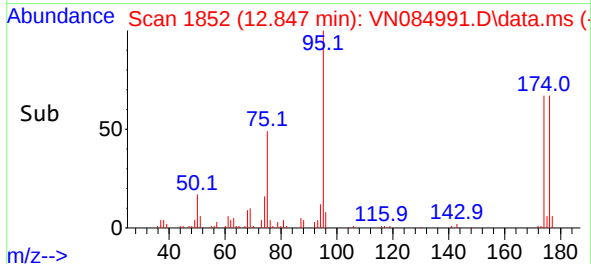
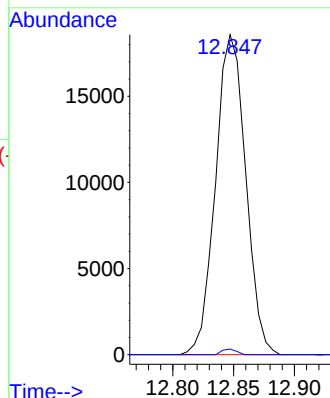
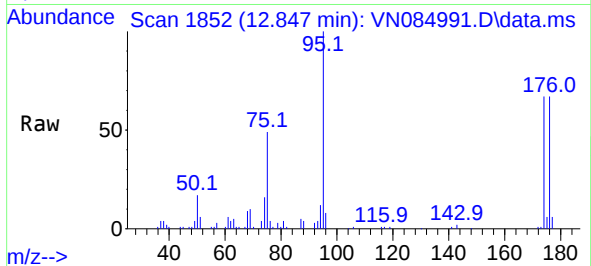




#72
1,2,3-Trichloropropane
Concen: 15.219 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

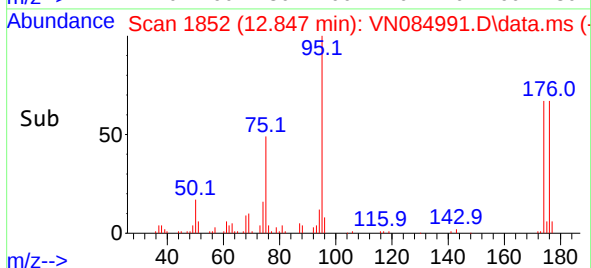
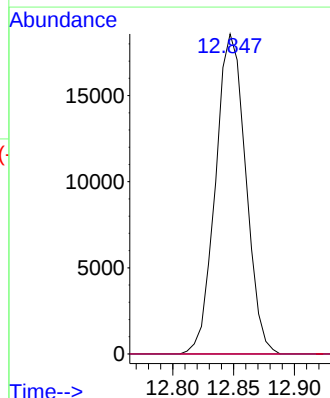
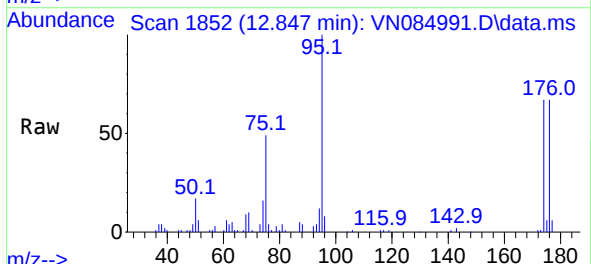
Instrument :
MSVOA_N
ClientSampleId :

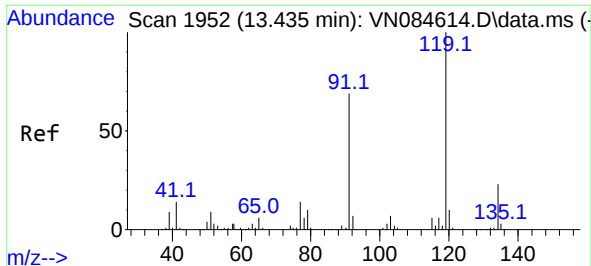
Tgt Ion: 75 Resp: 32067
Ion Ratio Lower Upper
75 100
77 0.9 0.0 358.4



#77
t-1,4-Dichloro-2-butene
Concen: 37.107 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion: 75 Resp: 32067
Ion Ratio Lower Upper
75 100
53 0.0 52.4 157.2#
89 0.0 26.0 78.0#

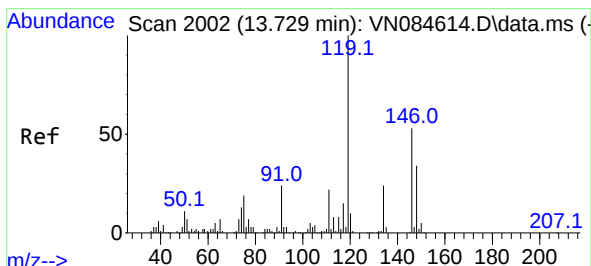
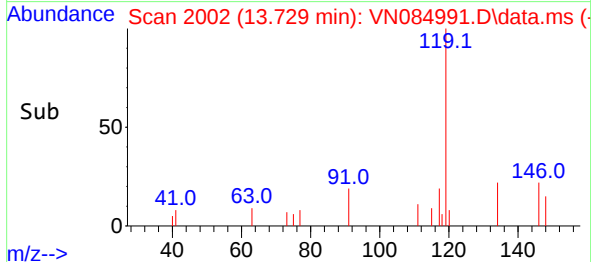
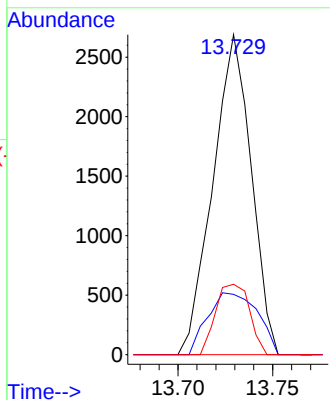
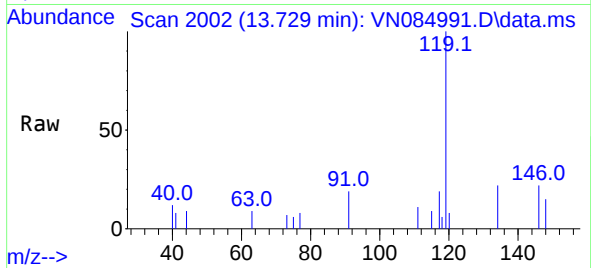




#79
tert-butylbenzene
Concen: 0.704 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.294 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

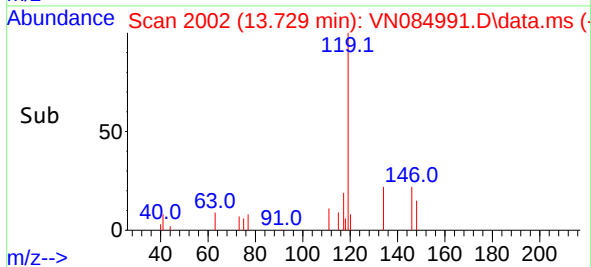
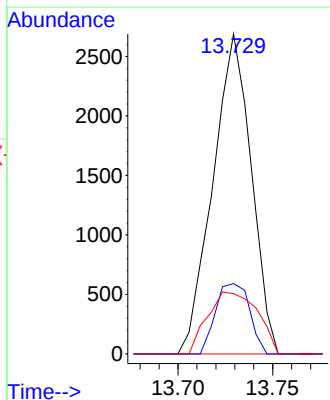
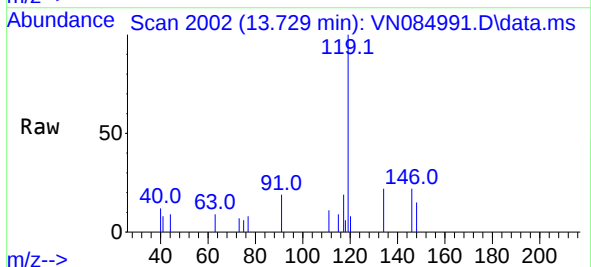
Instrument :
MSVOA_N
ClientSampleId :

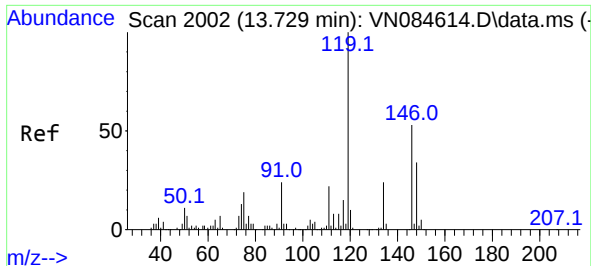
Tgt Ion:	119	Resp:	3786
Ion	Ratio	Lower	Upper
119	100		
91	25.1	0.0	143.2
134	19.5	0.0	49.4



#82
p-Isopropyltoluene
Concen: 0.608 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion:	119	Resp:	3786
Ion	Ratio	Lower	Upper
119	100		
134	19.5	0.0	51.4
91	25.1	0.0	50.4

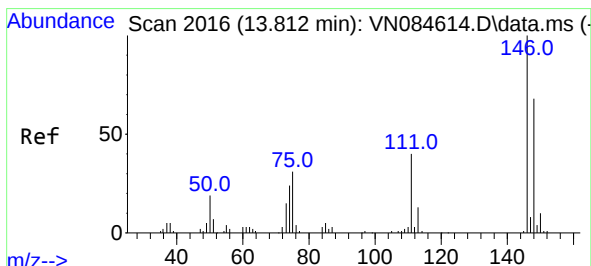
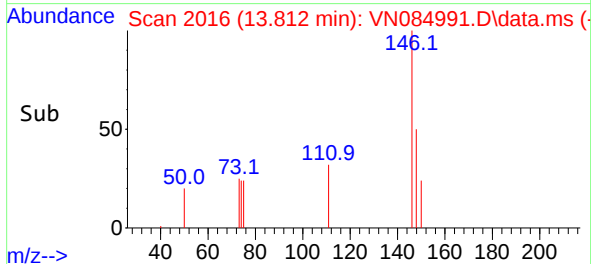
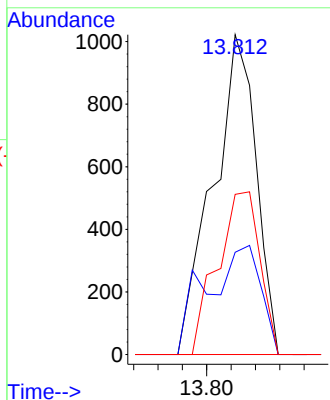
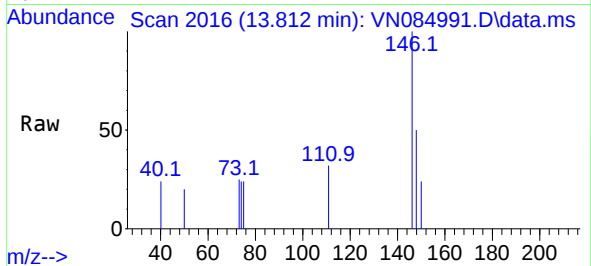




#83
1,3-Dichlorobenzene
Concen: 0.346 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.082 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

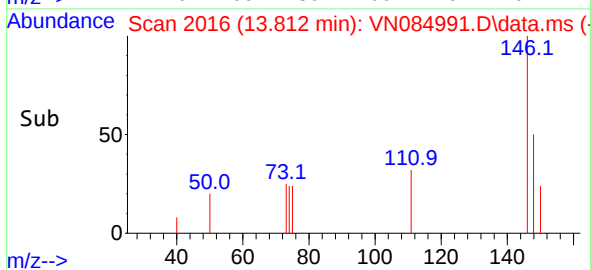
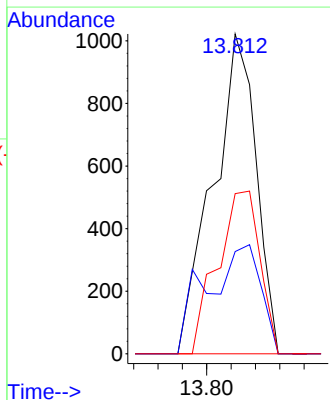
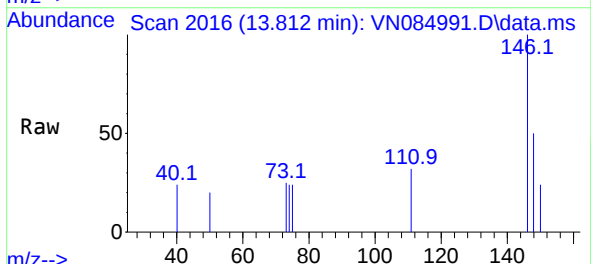
Instrument :
MSVOA_N
ClientSampleId :

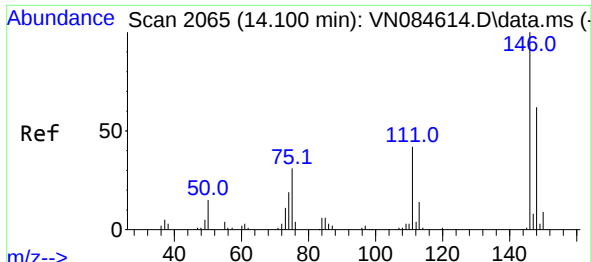
Tgt Ion:146 Resp: 1258
Ion Ratio Lower Upper
146 100
111 24.2 21.0 63.0
148 50.2 31.3 93.8



#84
1,4-Dichlorobenzene
Concen: 0.351 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion:146 Resp: 1258
Ion Ratio Lower Upper
146 100
111 24.2 20.2 60.5
148 50.2 32.6 98.0





#87

1,2-Dichlorobenzene

Concen: 0.352 ug/l

RT: 13.812 min Scan# 2065

Delta R.T. -0.288 min

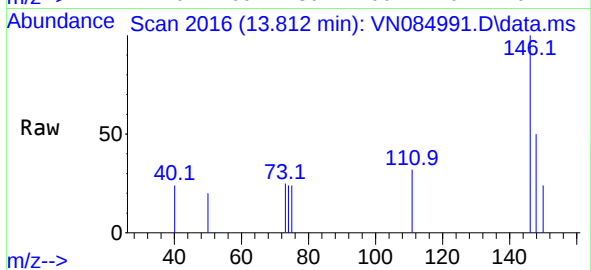
Lab File: VN084991.D

Acq: 21 Nov 2024 12:18

Instrument :

MSVOA_N

ClientSampleId :



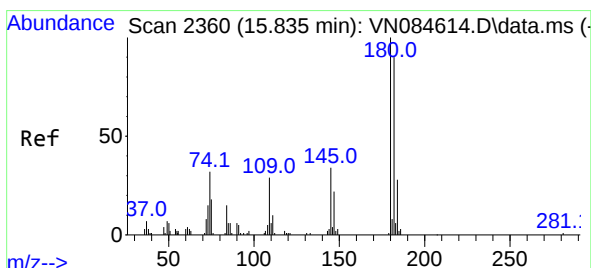
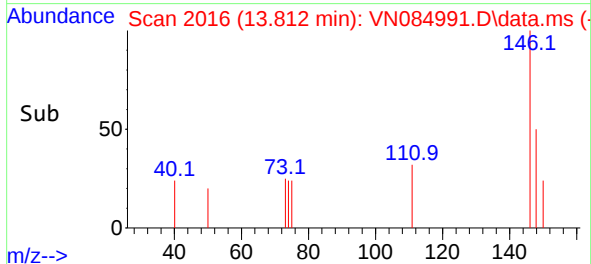
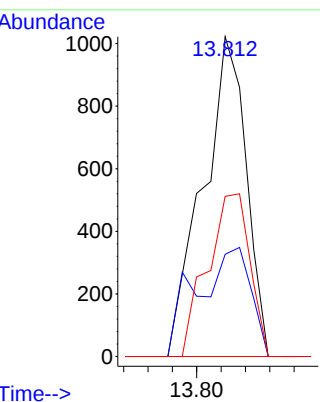
Tgt Ion:146 Resp: 1258

Ion Ratio Lower Upper

146 100

111 24.2 22.4 67.0

148 50.2 32.6 98.0



#89

1,2,4-Trichlorobenzene

Concen: 0.223 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN084991.D

Acq: 21 Nov 2024 12:18

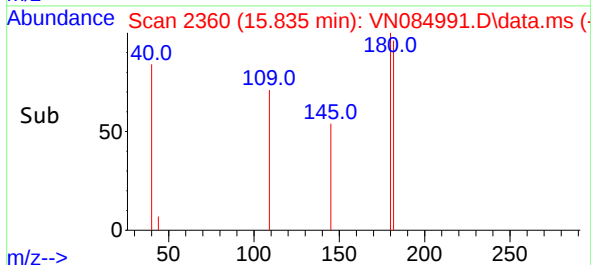
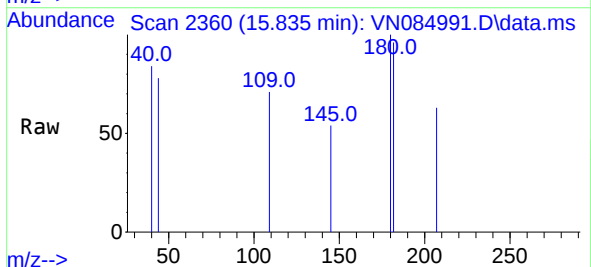
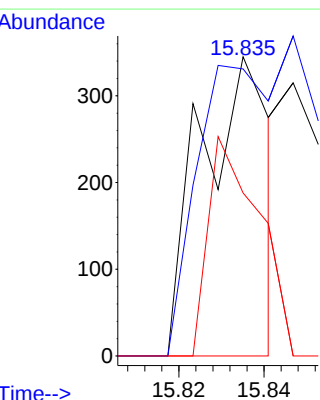
Tgt Ion:180 Resp: 389

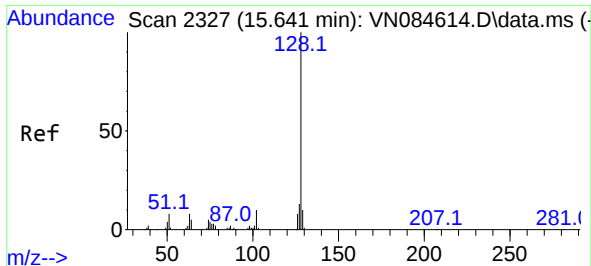
Ion Ratio Lower Upper

180 100

182 104.9 73.0 109.6

145 54.0 26.5 39.7#

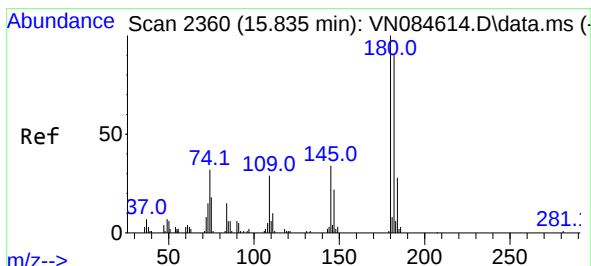
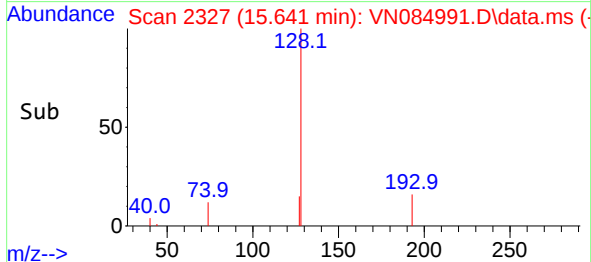
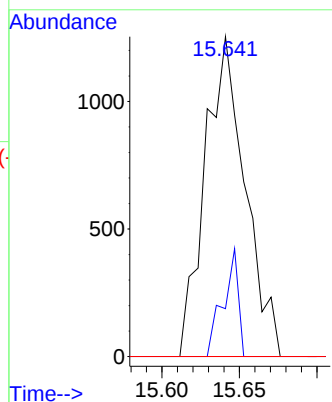
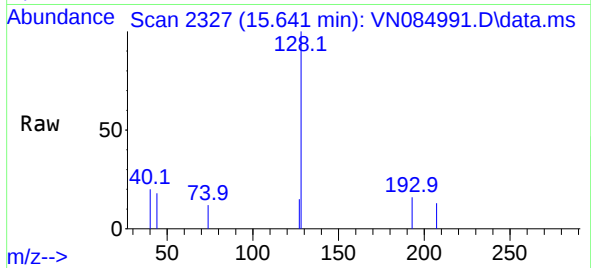




#91
Naphthalene
Concen: 0.406 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 2261
Ion Ratio Lower Upper
128 100
127 12.7 10.3 15.5
129 0.0 8.6 12.8#



#92
1,2,3-Trichlorobenzene
Concen: 0.223 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN084991.D
Acq: 21 Nov 2024 12:18

Tgt Ion:180 Resp: 389
Ion Ratio Lower Upper
180 100
182 104.9 0.0 182.6
145 54.0 0.0 66.2

