

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084622.D
 Acq On : 31 Oct 2024 16:37
 Operator : JC\MD
 Sample : VN1031WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 02:48:49 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)

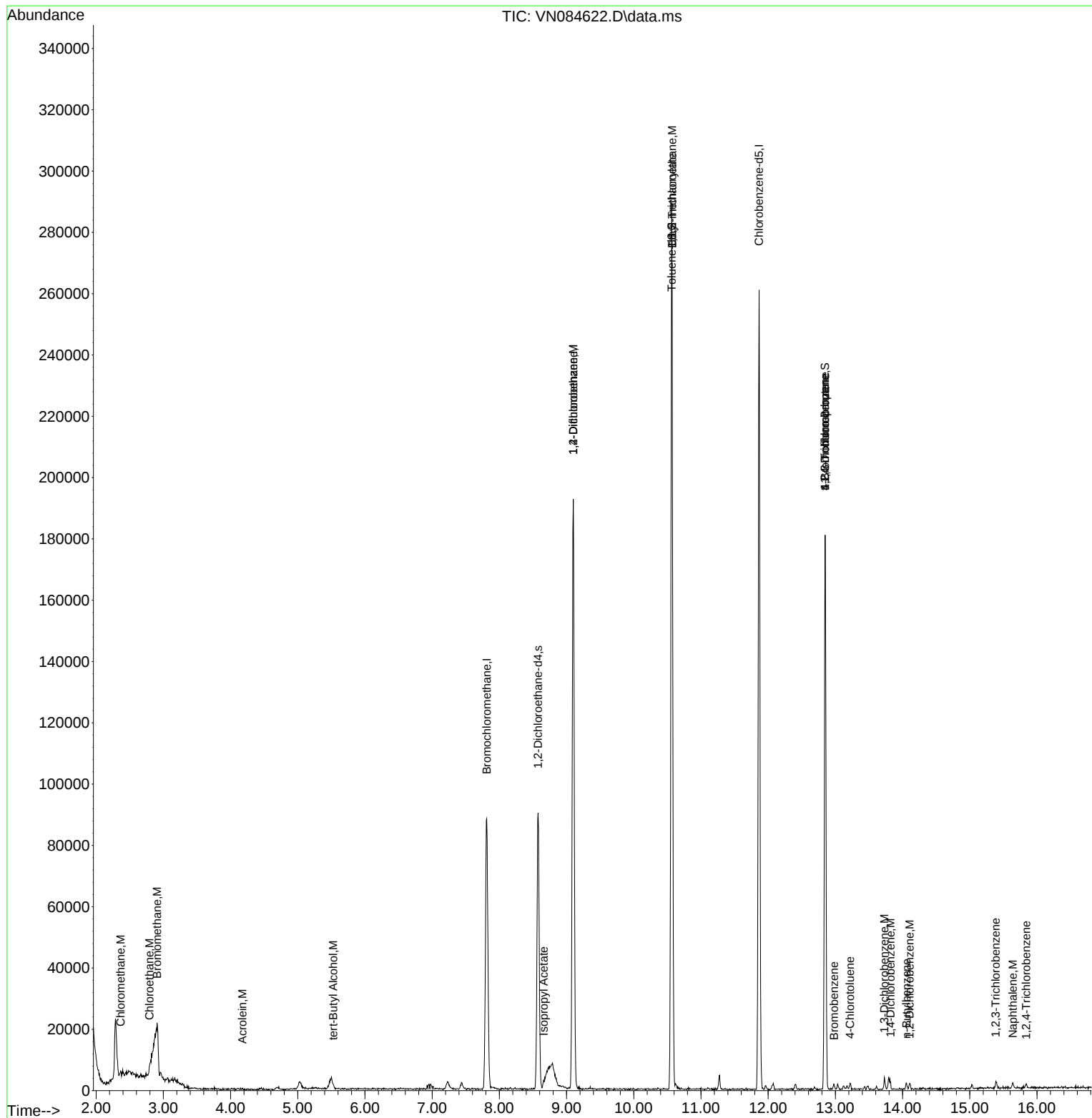
Internal Standards						
1) Bromochloromethane	7.812	128	32185	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	168153	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	145344	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	75738	29.271	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.567%
60) 4-Bromofluorobenzene	12.847	95	62663	25.039	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.467%
63) Toluene-d8	10.565	98	195650	28.435	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.767%
Target Compounds						Qvalue
3) Chloromethane	2.365	50	792	0.351	ug/l #	43
5) Bromomethane	2.906	94	213	0.201	ug/l	91
6) Chloroethane	2.795	64	990	0.720	ug/l	98
13) Acrolein	4.177	56	145	0.402	ug/l #	14
23) tert-Butyl Alcohol	5.530	59	539	1.614	ug/l #	100
36) 1,2-Dichloroethane	9.100	62	6128	2.201	ug/l #	74
44) Isopropyl Acetate	8.659	43	1544	0.311	ug/l	99
50) 1,1,2-Trichloroethane	10.571	97	6860	3.628	ug/l #	1
51) Ethyl methacrylate	10.571	69	585	0.201	ug/l #	72
72) 1,2,3-Trichloropropane	12.847	75	32372	14.654	ug/l	1
73) Bromobenzene	12.982	156	446	0.217	ug/l	97
77) t-1,4-Dichloro-2-butene	12.847	75	32372	35.731	ug/l #	7
78) 4-Chlorotoluene	13.217	91	1778	0.290	ug/l	89
83) 1,3-Dichlorobenzene	13.729	146	1458	0.383	ug/l	96
84) 1,4-Dichlorobenzene	13.823	146	1602	0.426	ug/l	96
85) n-Butylbenzene	14.059	91	1625	0.296	ug/l	71
87) 1,2-Dichlorobenzene	14.106	146	1063	0.283	ug/l	88
89) 1,2,4-Trichlorobenzene	15.841	180	599	0.328	ug/l #	67
91) Naphthalene	15.641	128	2272	0.389	ug/l #	81
92) 1,2,3-Trichlorobenzene	15.388	180	1141	0.625	ug/l	79

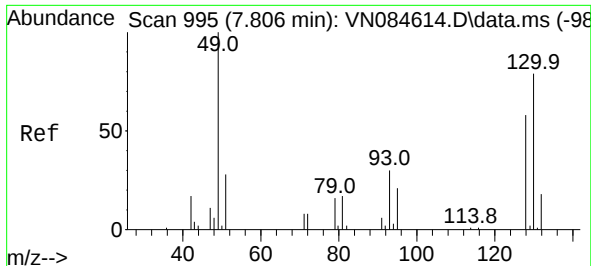
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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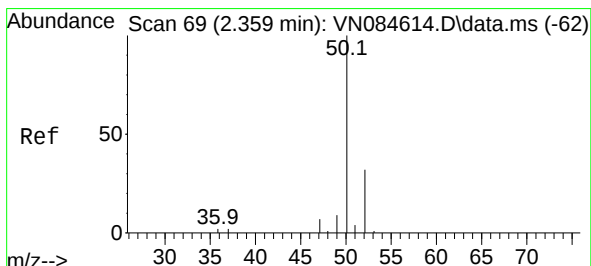
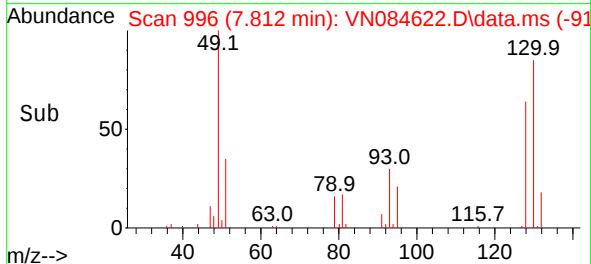
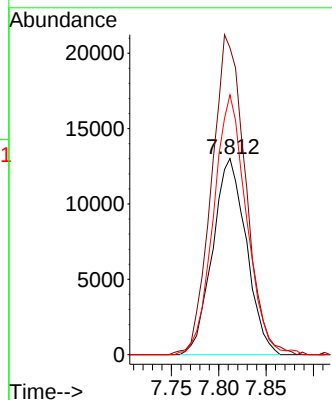
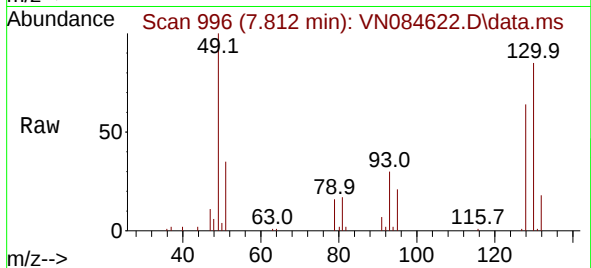




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 995
Delta R.T. 0.006 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

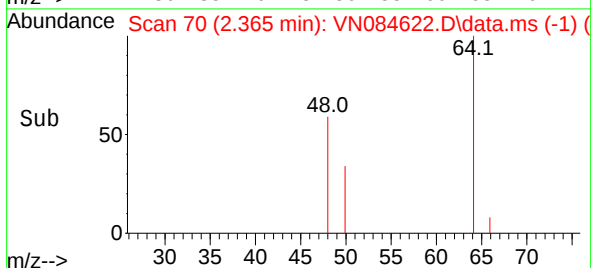
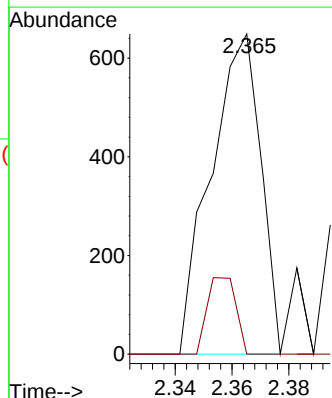
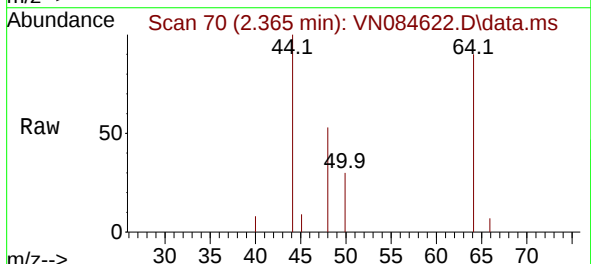
Instrument :
MSVOA_N
ClientSampleId :

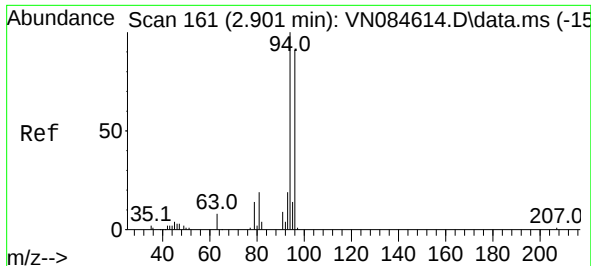
Tgt Ion:128 Resp: 32185
Ion Ratio Lower Upper
128 100
49 164.1 0.0 427.0
130 129.3 0.0 322.2



#3
Chloromethane
Concen: 0.351 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

Tgt Ion: 50 Resp: 792
Ion Ratio Lower Upper
50 100
52 0.0 25.5 38.3#

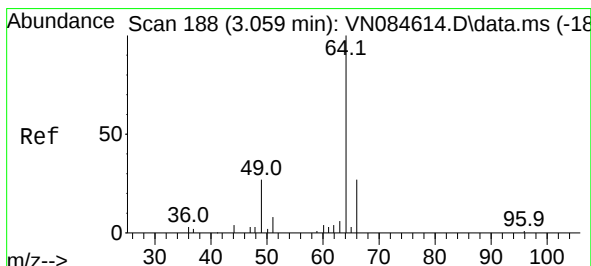
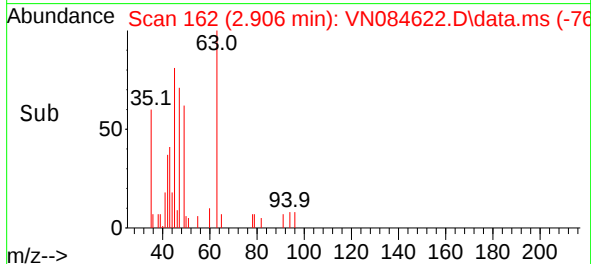
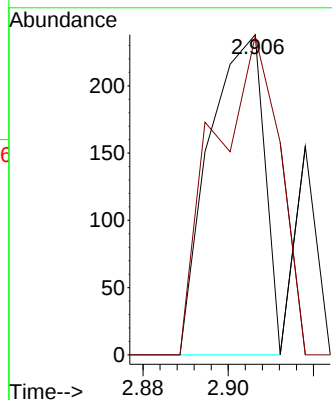
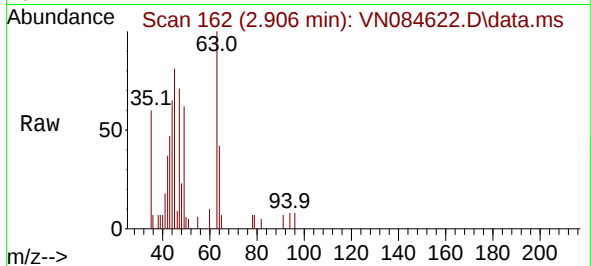




#5
Bromomethane
Concen: 0.201 ug/l
RT: 2.906 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

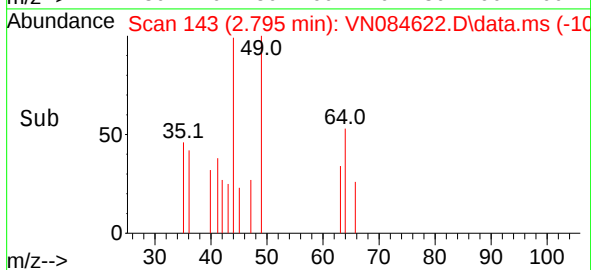
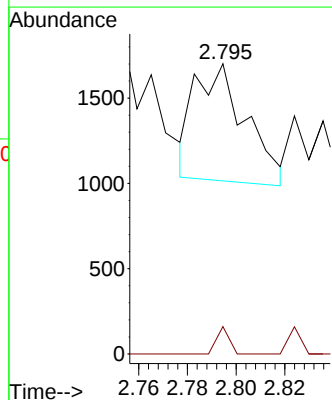
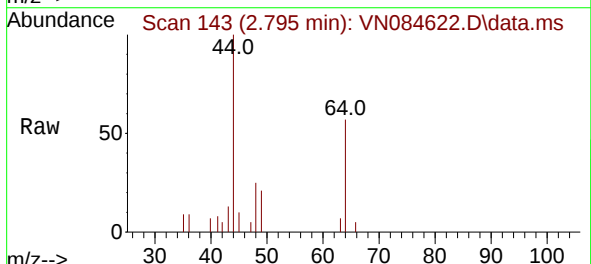
Instrument :
MSVOA_N
ClientSampleId :

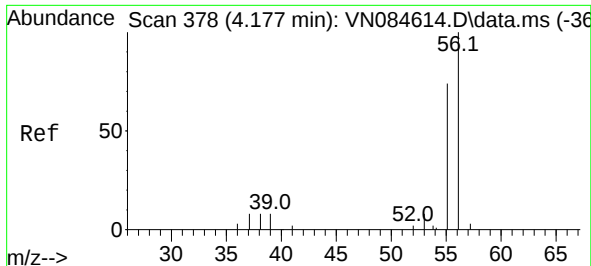
Tgt Ion: 94 Resp: 213
Ion Ratio Lower Upper
94 100
96 99.6 72.7 109.1



#6
Chloroethane
Concen: 0.720 ug/l
RT: 2.795 min Scan# 143
Delta R.T. -0.265 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

Tgt Ion: 64 Resp: 990
Ion Ratio Lower Upper
64 100
66 26.7 22.1 33.1





#13

Acrolein

Concen: 0.402 ug/l

RT: 4.177 min Scan# 31

Delta R.T. -0.000 min

Lab File: VN084622.D

Acq: 31 Oct 2024 16:37

Instrument :

MSVOA_N

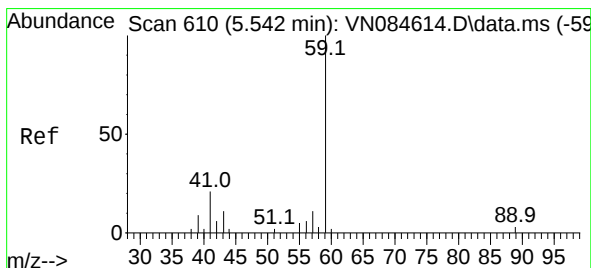
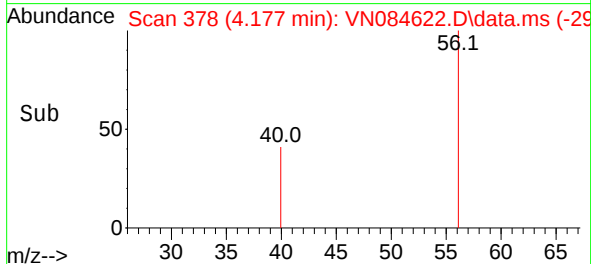
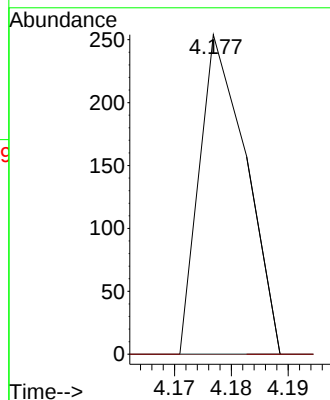
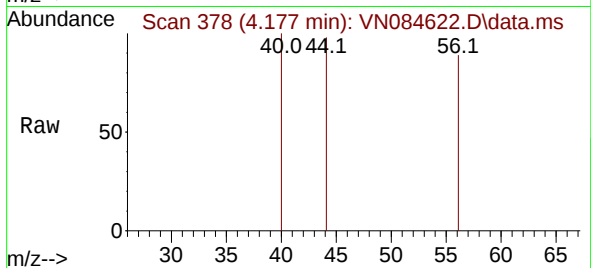
ClientSampleId :

Tgt Ion: 56 Resp: 145

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#23

tert-Butyl Alcohol

Concen: 1.614 ug/l

RT: 5.530 min Scan# 608

Delta R.T. -0.012 min

Lab File: VN084622.D

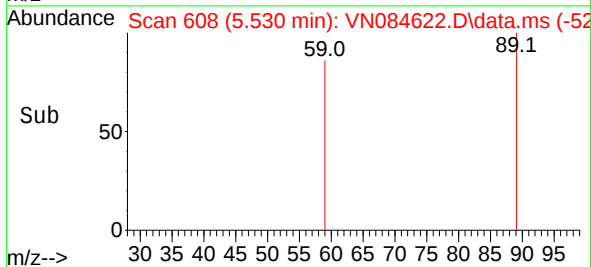
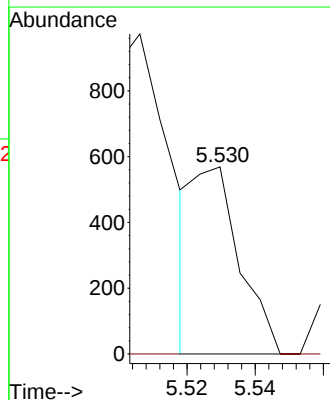
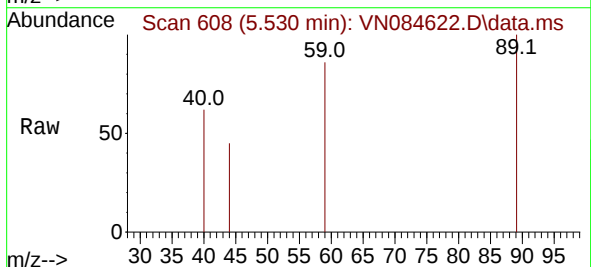
Acq: 31 Oct 2024 16:37

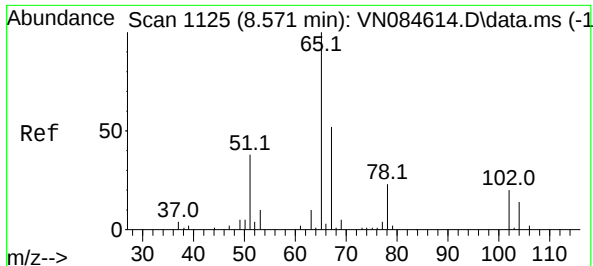
Tgt Ion: 59 Resp: 539

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

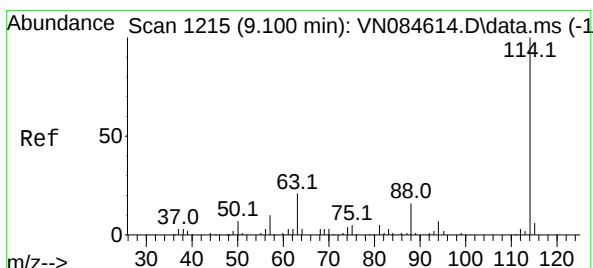
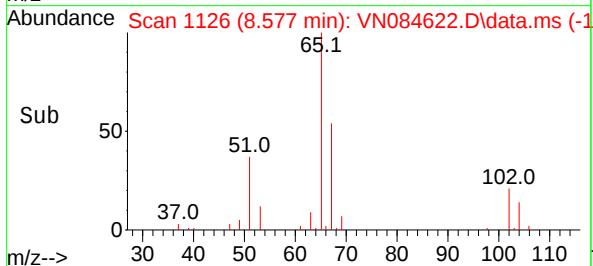
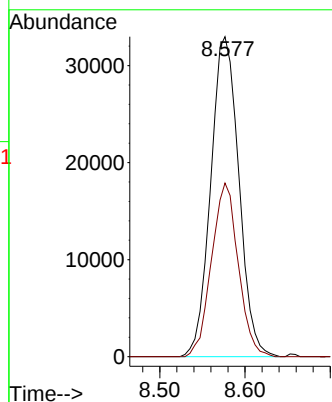
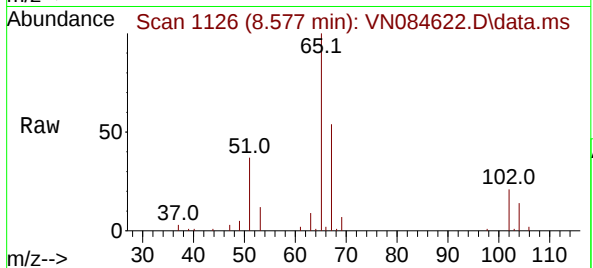




#27
1,2-Dichloroethane-d4
Concen: 29.271 ug/l
RT: 8.577 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

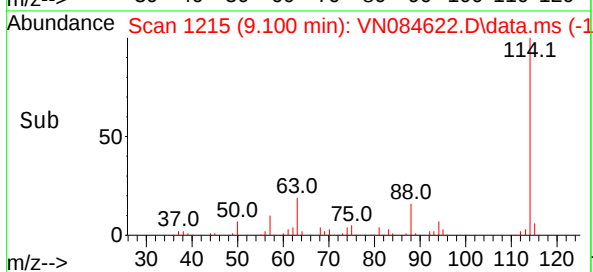
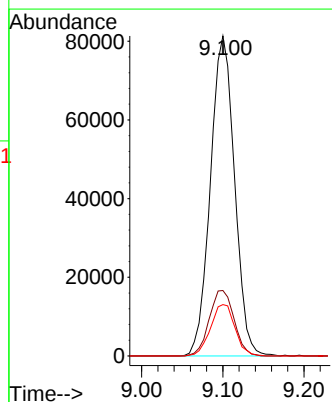
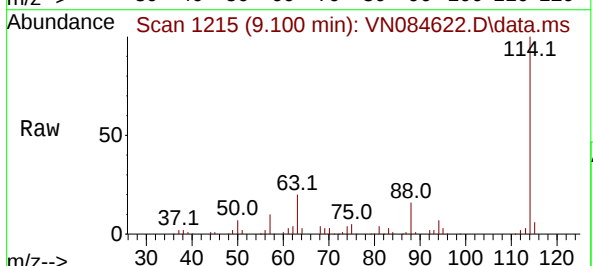
Instrument :
MSVOA_N
ClientSampleId :

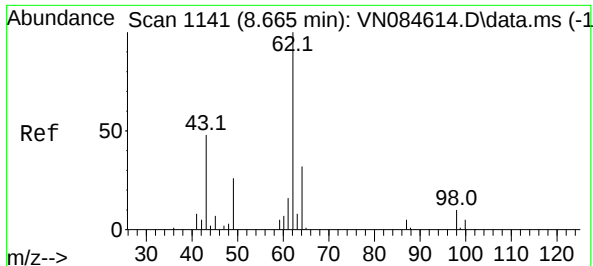
Tgt Ion: 65 Resp: 75738
Ion Ratio Lower Upper
65 100
67 51.5 40.7 61.1



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

Tgt Ion: 114 Resp: 168153
Ion Ratio Lower Upper
114 100
63 21.0 16.8 25.2
88 16.3 12.9 19.3

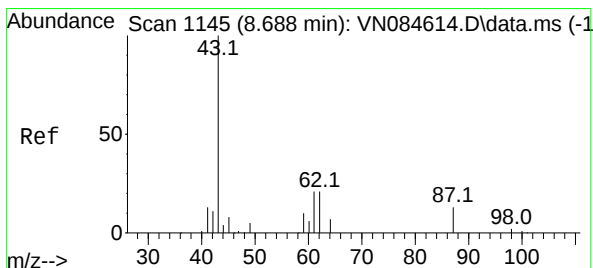
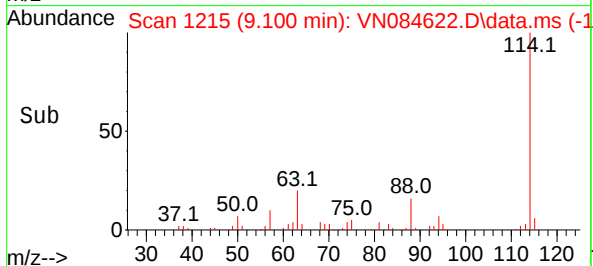
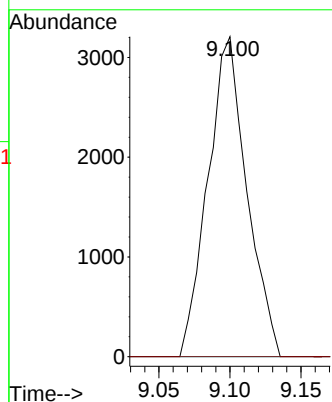
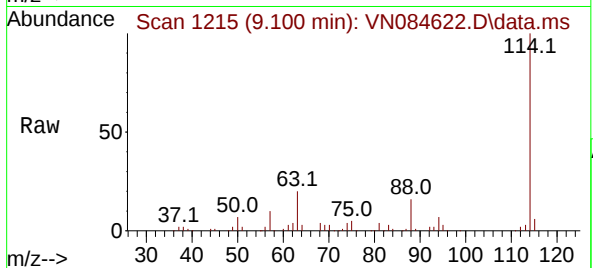




#36
1,2-Dichloroethane
Concen: 2.201 ug/l
RT: 9.100 min Scan# 1141
Delta R.T. 0.435 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

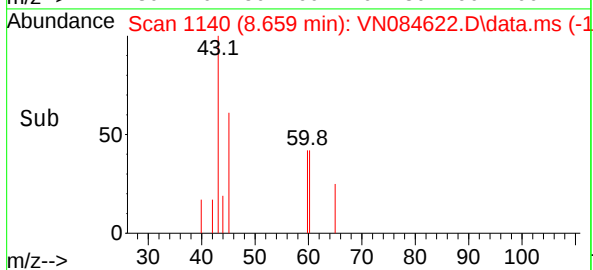
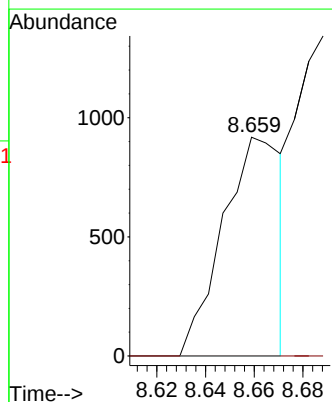
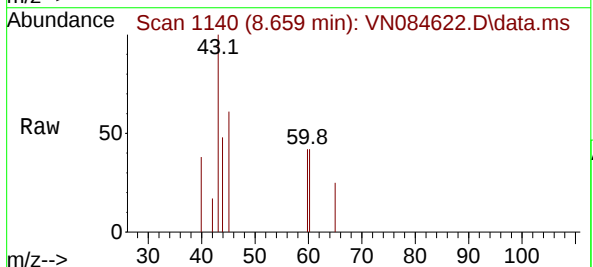
Instrument :
MSVOA_N
ClientSampleId :

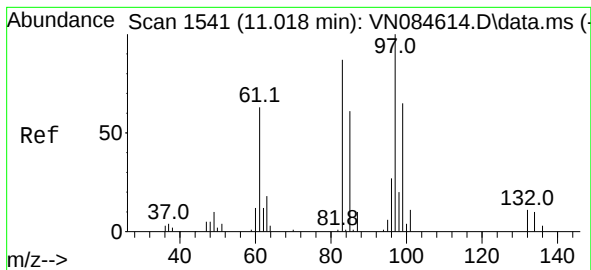
Tgt Ion: 62 Resp: 6128
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.6#



#44
Isopropyl Acetate
Concen: 0.311 ug/l
RT: 8.659 min Scan# 1140
Delta R.T. -0.030 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

Tgt Ion: 43 Resp: 1544
Ion Ratio Lower Upper
43 100
61 25.1 19.8 29.8





#50

1,1,2-Trichloroethane

Concen: 3.628 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.447 min

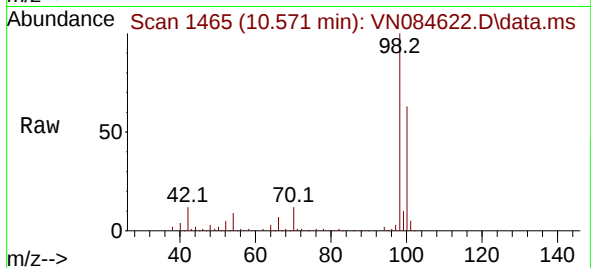
Lab File: VN084622.D

Acq: 31 Oct 2024 16:37

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 97 Resp: 6860

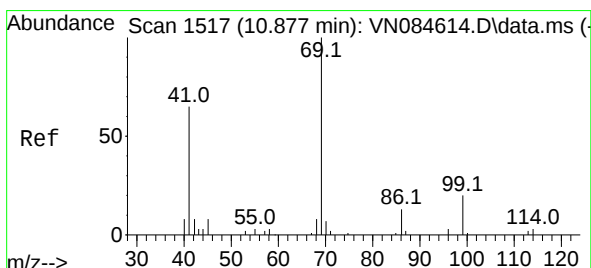
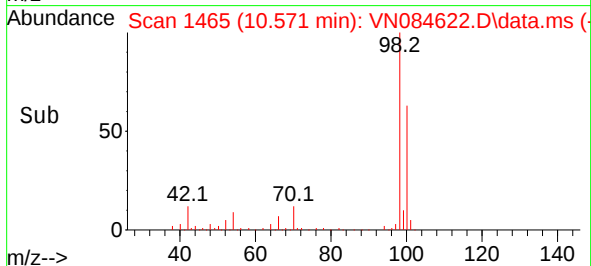
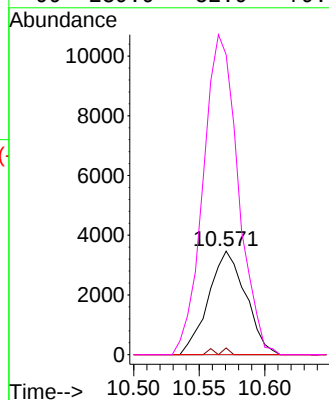
Ion Ratio Lower Upper

97 100

83 6.5 69.8 104.8#

85 0.0 48.6 73.0#

99 289.9 52.9 79.3#



#51

Ethyl methacrylate

Concen: 0.201 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.306 min

Lab File: VN084622.D

Acq: 31 Oct 2024 16:37

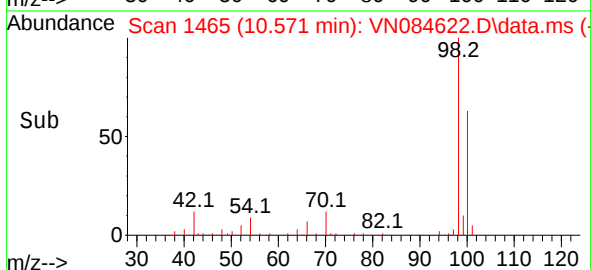
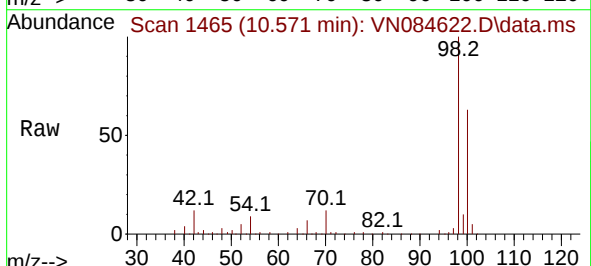
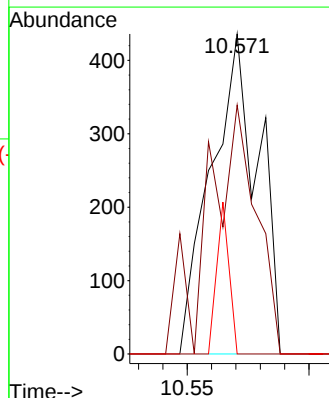
Tgt Ion: 69 Resp: 585

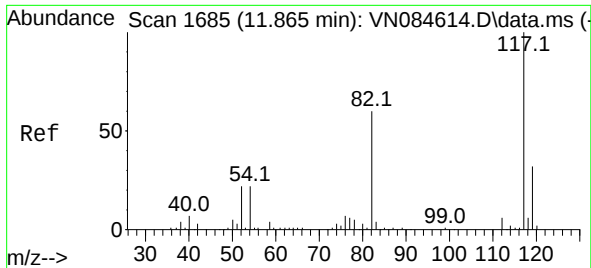
Ion Ratio Lower Upper

69 100

41 77.8 32.8 98.3

39 0.0 15.4 46.1#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN084622.D

Acq: 31 Oct 2024 16:37

Instrument :

MSVOA_N

ClientSampleId :

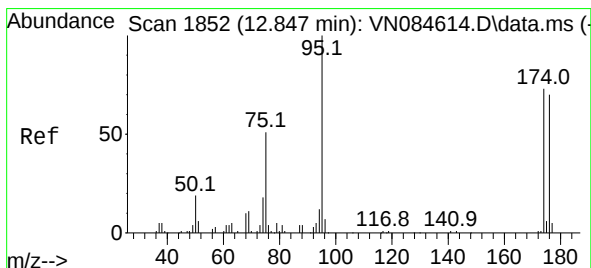
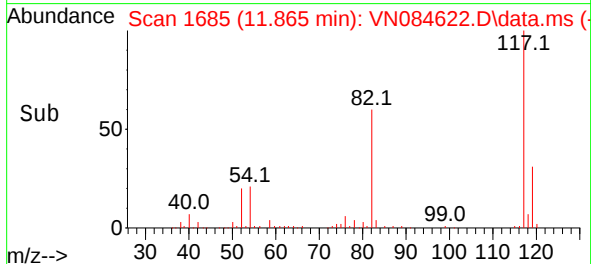
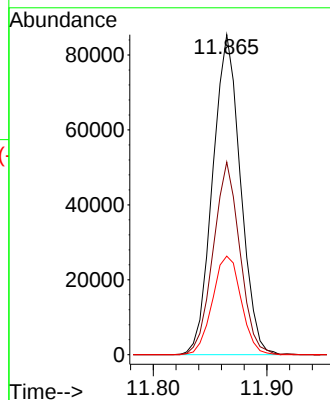
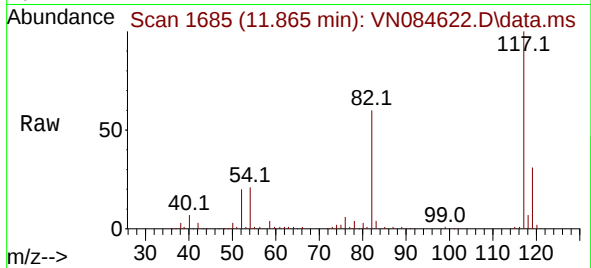
Tgt Ion:117 Resp: 145344

Ion Ratio Lower Upper

117 100

82 57.8 45.5 68.3

119 31.8 25.3 37.9



#60

4-Bromofluorobenzene

Concen: 25.039 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084622.D

Acq: 31 Oct 2024 16:37

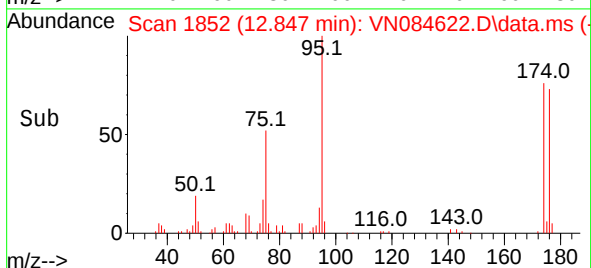
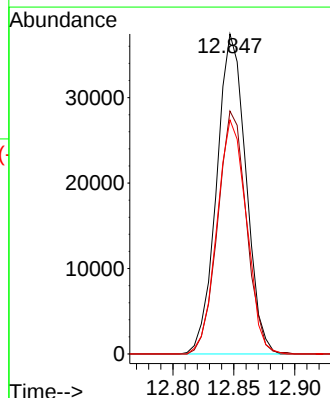
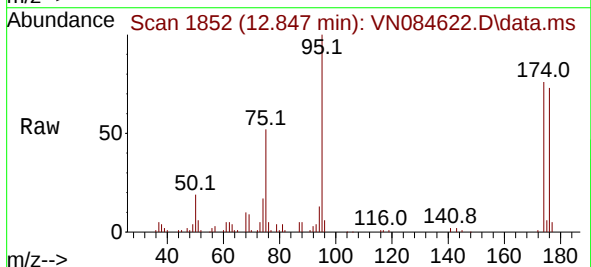
Tgt Ion: 95 Resp: 62663

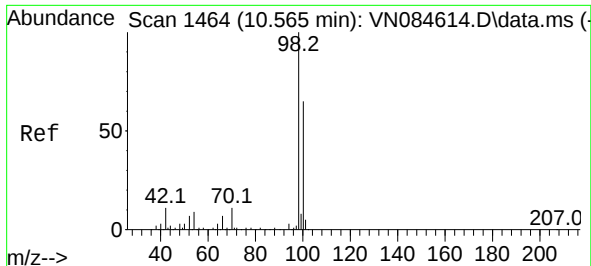
Ion Ratio Lower Upper

95 100

174 74.5 59.6 89.4

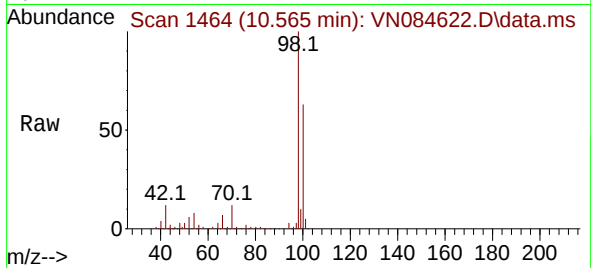
176 73.9 58.6 88.0



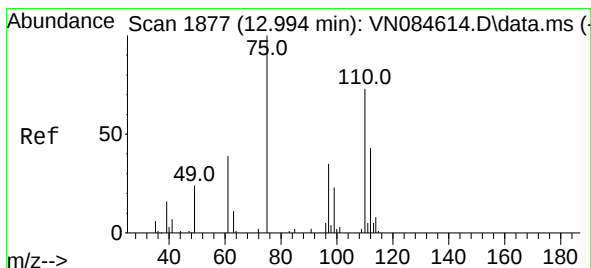
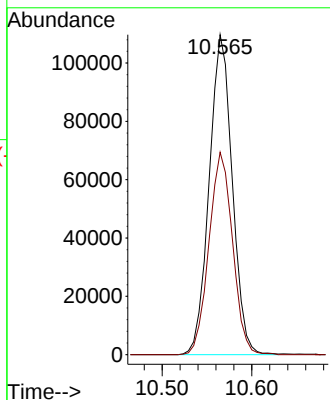
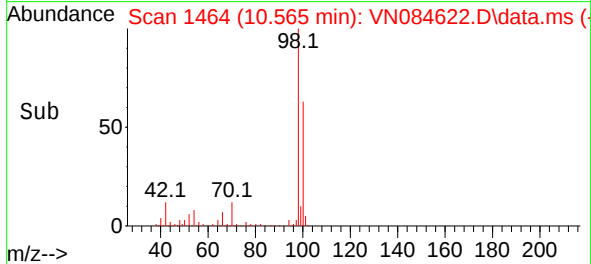


#63
Toluene-d8
Concen: 28.435 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

Instrument :
MSVOA_N
ClientSampleId :

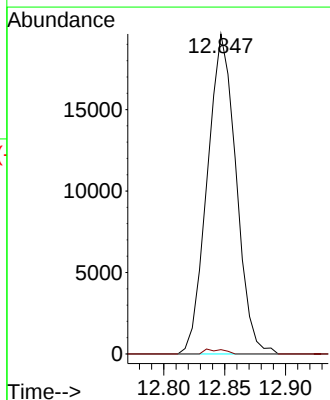
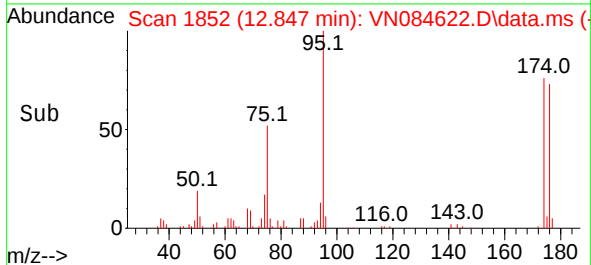
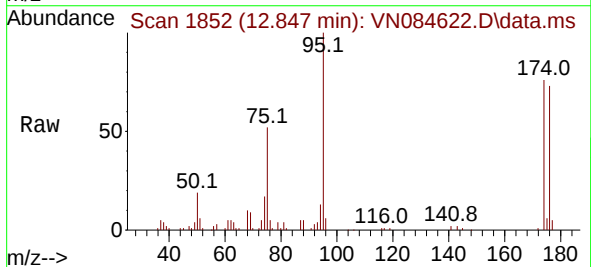


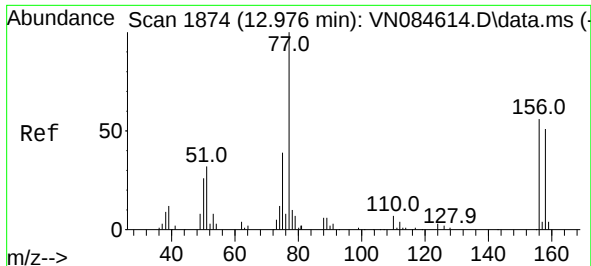
Tgt Ion: 98 Resp: 195650
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.2



#72
1,2,3-Trichloropropane
Concen: 14.654 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

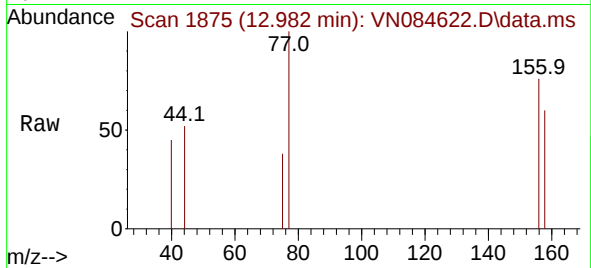
Tgt Ion: 75 Resp: 32372
Ion Ratio Lower Upper
75 100
77 0.5 0.0 358.4



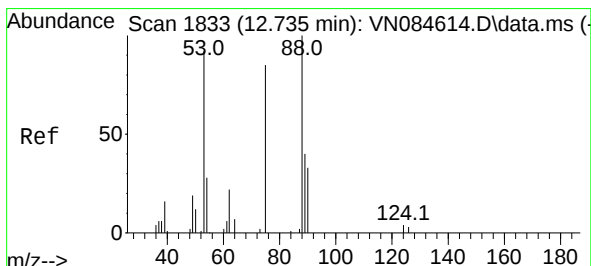
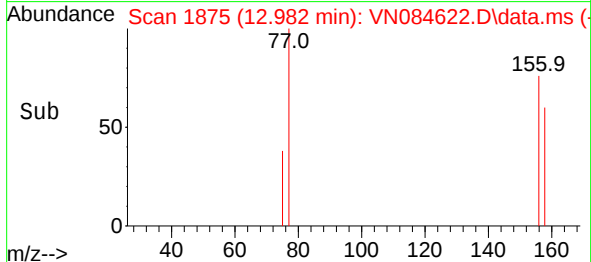
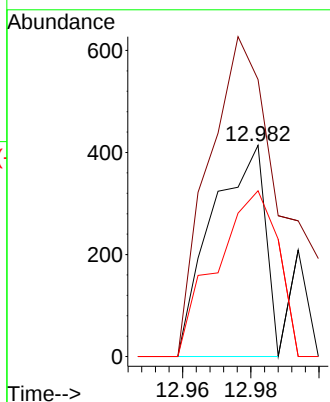


#73
Bromobenzene
Concen: 0.217 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.006 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

Instrument :
MSVOA_N
ClientSampleId :

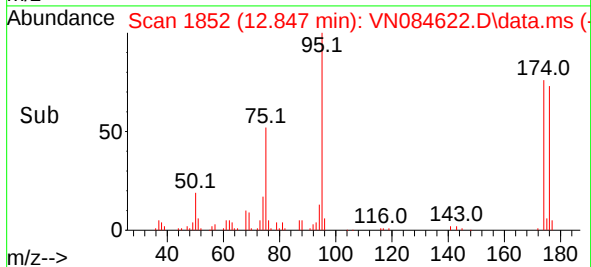
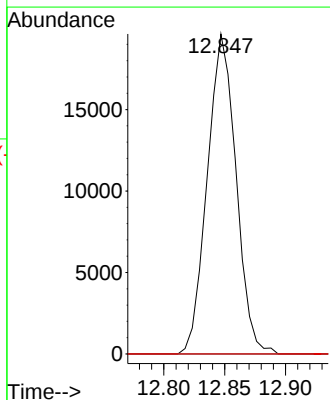
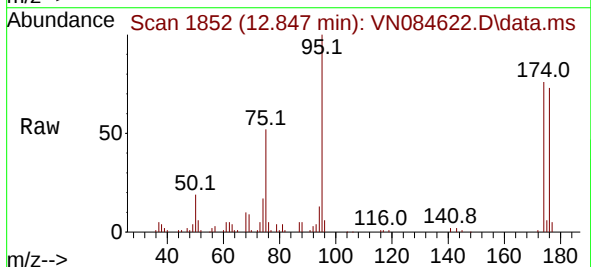


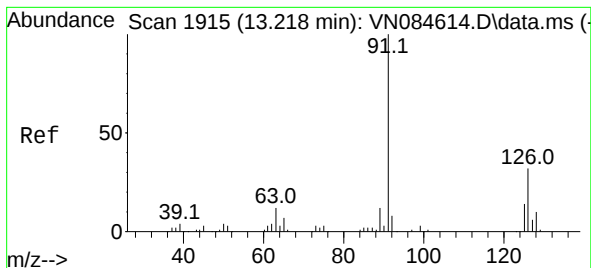
Tgt Ion:156 Resp: 446
Ion Ratio Lower Upper
156 100
77 210.8 0.0 427.6
158 91.7 0.0 191.6



#77
t-1,4-Dichloro-2-butene
Concen: 35.731 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

Tgt Ion: 75 Resp: 32372
Ion Ratio Lower Upper
75 100
53 0.0 52.4 157.2#
89 0.0 26.0 78.0#

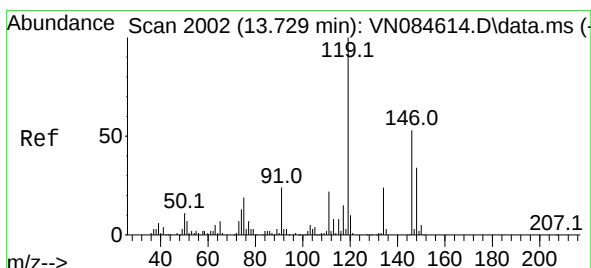
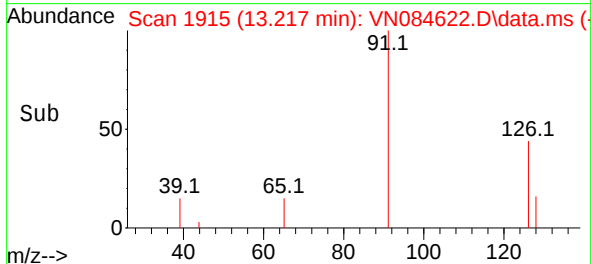
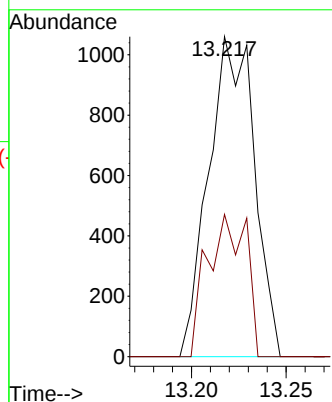
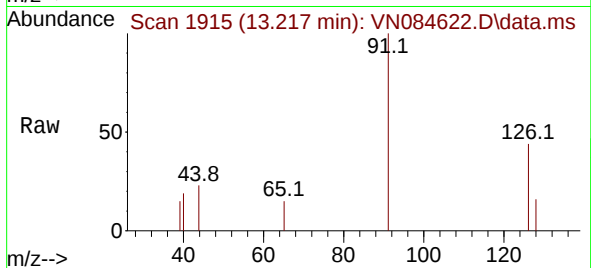




#78
4-Chlorotoluene
Concen: 0.290 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

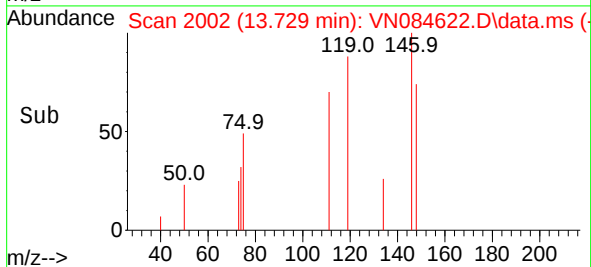
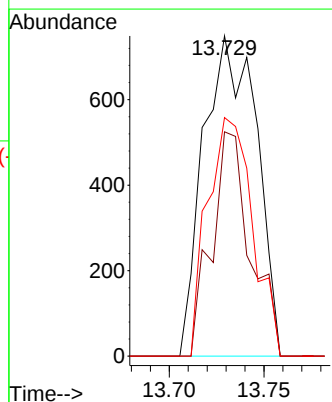
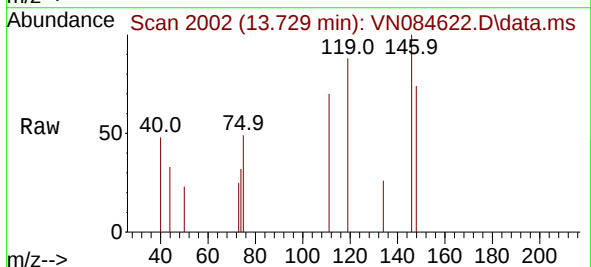
Instrument :
MSVOA_N
ClientSampleId :

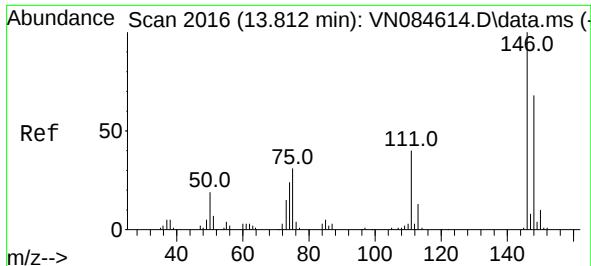
Tgt Ion: 91 Resp: 1778
Ion Ratio Lower Upper
91 100
126 37.8 0.0 63.4



#83
1,3-Dichlorobenzene
Concen: 0.383 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

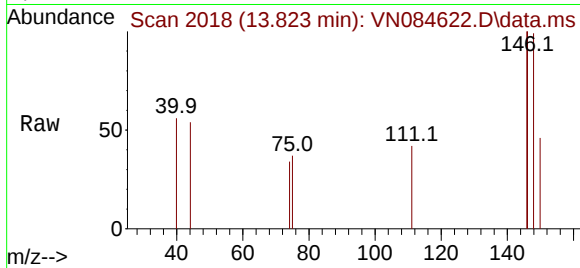
Tgt Ion: 146 Resp: 1458
Ion Ratio Lower Upper
146 100
111 46.6 21.0 63.0
148 63.3 31.3 93.8



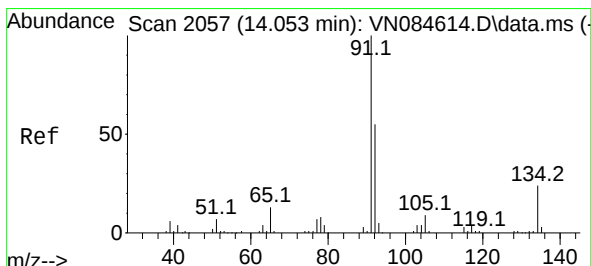
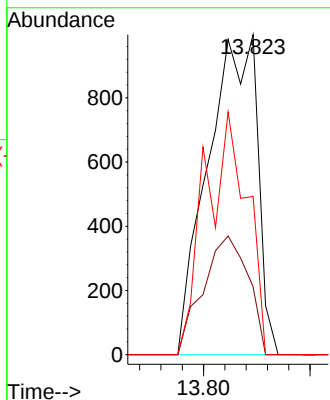
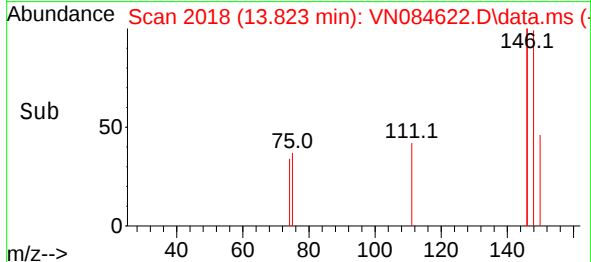


#84
1,4-Dichlorobenzene
Concen: 0.426 ug/l
RT: 13.823 min Scan# 2016
Delta R.T. 0.012 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37

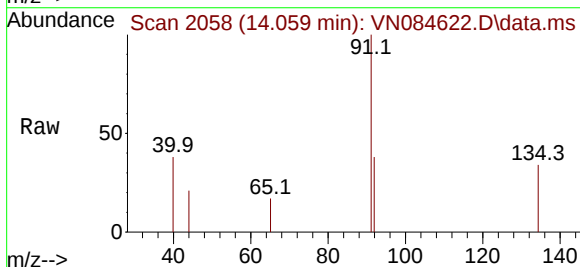
Instrument :
MSVOA_N
ClientSampleId :



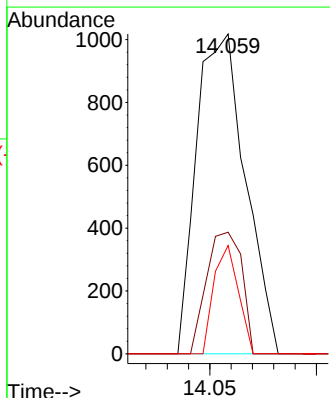
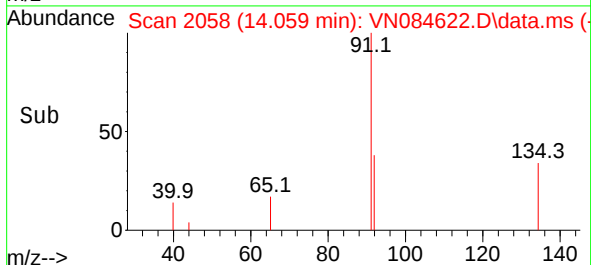
Tgt Ion:146 Resp: 1602
Ion Ratio Lower Upper
146 100
111 34.0 20.2 60.5
148 64.8 32.6 98.0

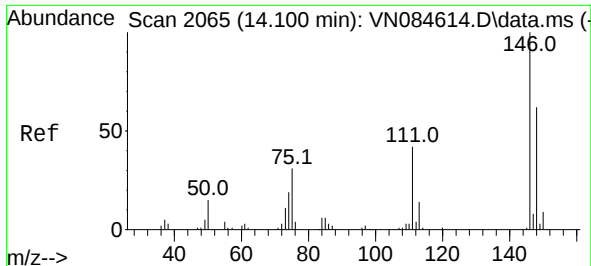


#85
n-Butylbenzene
Concen: 0.296 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.006 min
Lab File: VN084622.D
Acq: 31 Oct 2024 16:37



Tgt Ion: 91 Resp: 1625
Ion Ratio Lower Upper
91 100
92 27.4 0.0 106.2
134 16.9 0.0 48.2





#87

1,2-Dichlorobenzene

Concen: 0.283 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.006 min

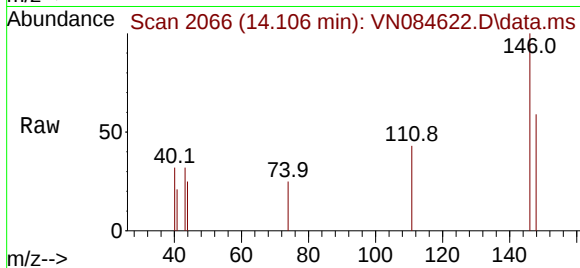
Lab File: VN084622.D

Acq: 31 Oct 2024 16:37

Instrument :

MSVOA_N

ClientSampleId :



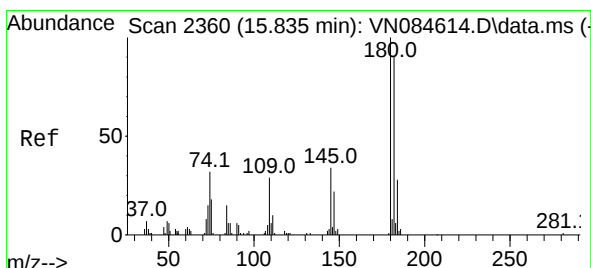
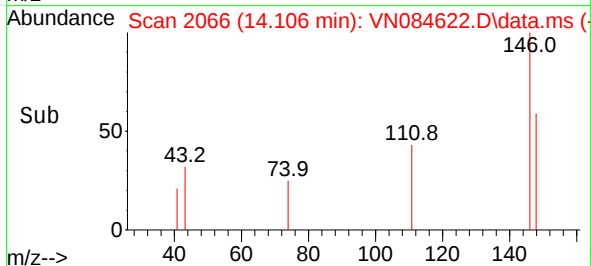
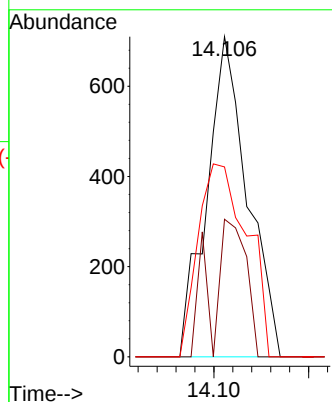
Tgt Ion:146 Resp: 1063

Ion Ratio Lower Upper

146 100

111 27.0 22.4 67.0

148 63.6 32.6 98.0



#89

1,2,4-Trichlorobenzene

Concen: 0.328 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN084622.D

Acq: 31 Oct 2024 16:37

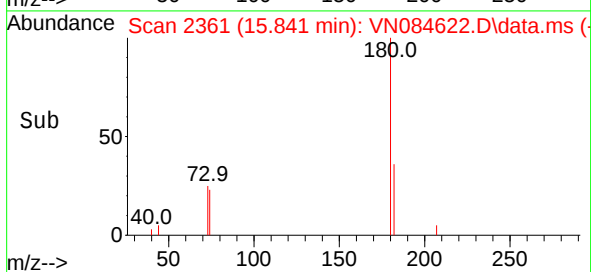
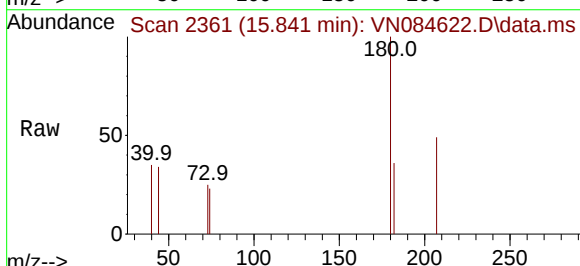
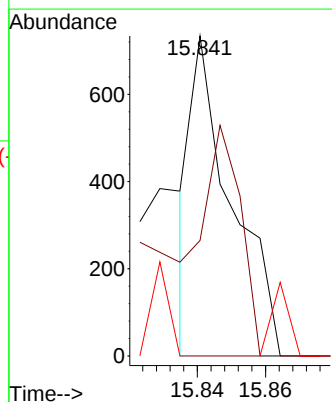
Tgt Ion:180 Resp: 599

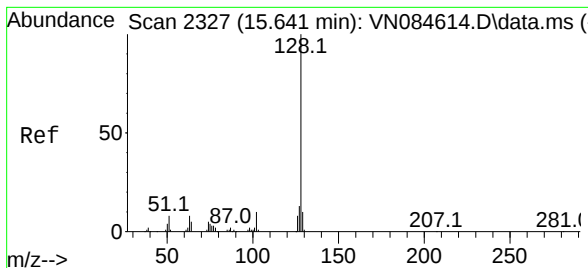
Ion Ratio Lower Upper

180 100

182 68.4 73.0 109.6#

145 0.0 26.5 39.7#





#91

Naphthalene

Concen: 0.389 ug/l

RT: 15.641 min Scan# 2284

Delta R.T. -0.000 min MSVOA_N

Lab File: VN084622.D

Acq: 31 Oct 2024 16:37

Instrument :

MSVOA_N

ClientSampleId :

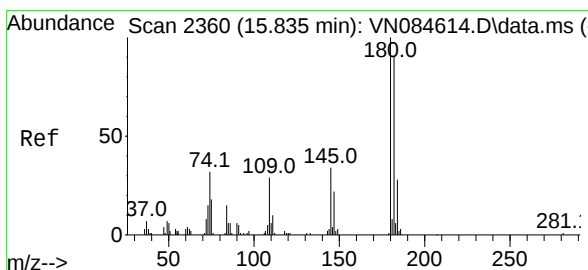
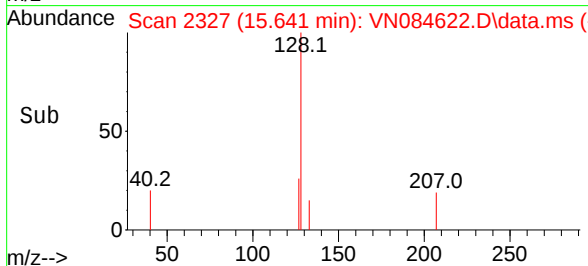
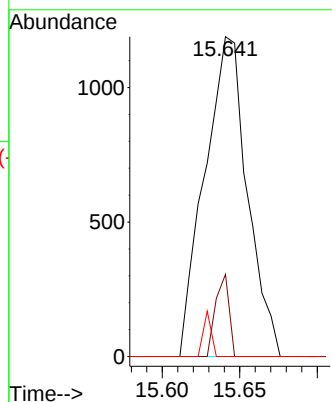
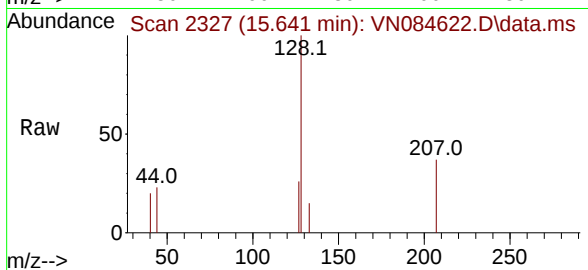
Tgt Ion:128 Resp: 2272

Ion Ratio Lower Upper

128 100

127 8.1 10.3 15.5#

129 0.0 8.6 12.8#



#92

1,2,3-Trichlorobenzene

Concen: 0.625 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.447 min

Lab File: VN084622.D

Acq: 31 Oct 2024 16:37

Tgt Ion:180 Resp: 1141

Ion Ratio Lower Upper

180 100

182 74.1 0.0 182.6

145 16.5 0.0 66.2

