

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
 Data File : VN087875.D
 Acq On : 17 Sep 2025 13:32
 Operator : JC\MD
 Sample : Q3120-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 18 03:10:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

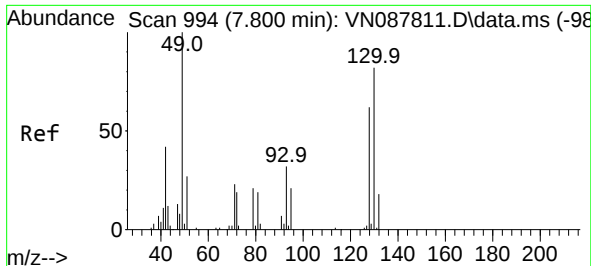
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.800	128	49388	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	249408	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	226027	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	122837	29.116	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.067%
60) 4-Bromofluorobenzene	12.829	95	95958	26.403	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	88.000%
63) Toluene-d8	10.547	98	298020	28.352	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.500%
Target Compounds						
					Qvalue	
5) Bromomethane	3.000	94	440	0.206	ug/l	95
12) Methyl Acetate	5.000	43	2386	0.519	ug/l #	78
13) Acrolein	4.189	56	184	0.225	ug/l #	1
15) Acetone	4.424	58	452331	732.949	ug/l	94
23) tert-Butyl Alcohol	5.530	59	807	1.154	ug/l #	100
25) Chloroform	7.953	83	82870	12.910	ug/l	93
30) 2-Butanone	7.477	43	4951	1.773	ug/l #	57
36) 1,2-Dichloroethane	9.077	62	9920	2.005	ug/l #	75
41) Bromodichloromethane	9.865	83	22640	4.436	ug/l	99
43) Ethyl Acetate	7.547	43	1778	0.312	ug/l #	93
51) Ethyl methacrylate	10.547	69	1214	0.242	ug/l	81
53) Dibromochloromethane	11.341	129	8362	2.313	ug/l	94
56) Bromoform	12.553	173	1890	0.800	ug/l #	89
58) 4-Methyl-2-Pentanone	10.459	43	1881	0.352	ug/l #	45
72) 1,2,3-Trichloropropane	12.970	75	1053	0.222	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.829	75	52774	32.908	ug/l #	14

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

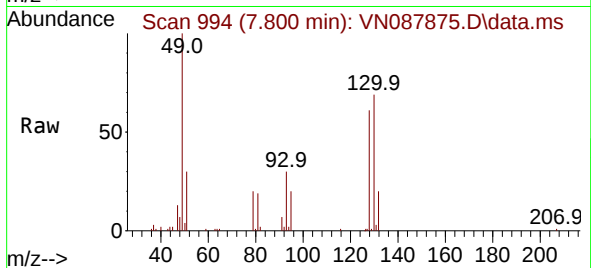
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration



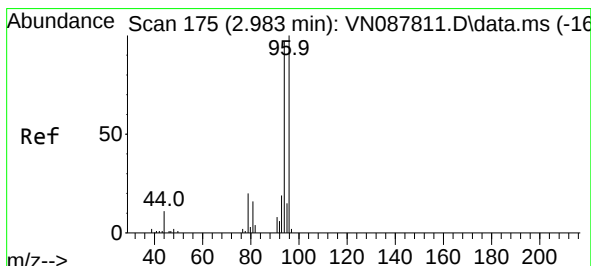
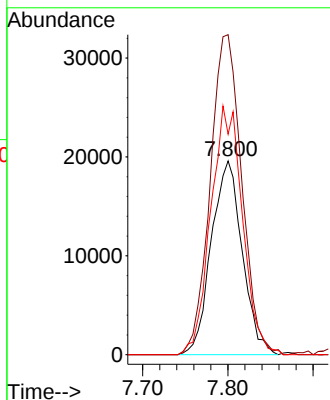
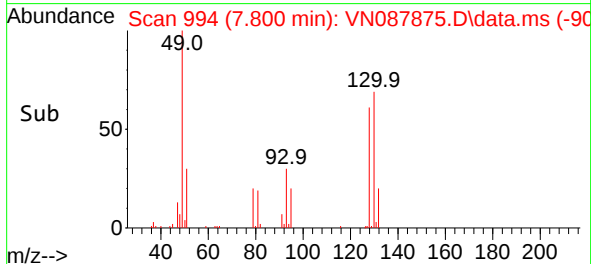


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.006 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

Instrument :
MSVOA_N
ClientSampleId :

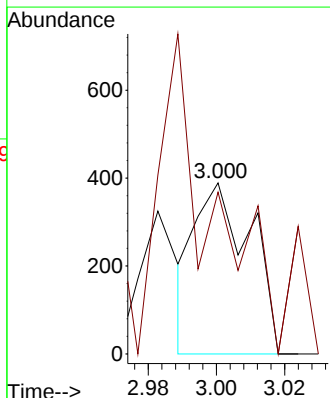
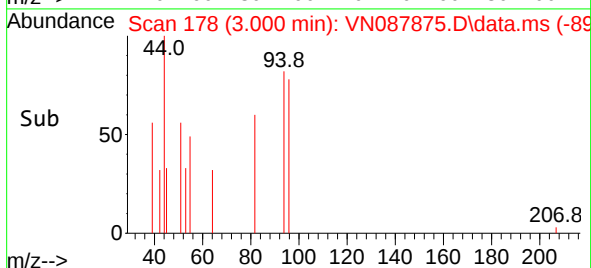
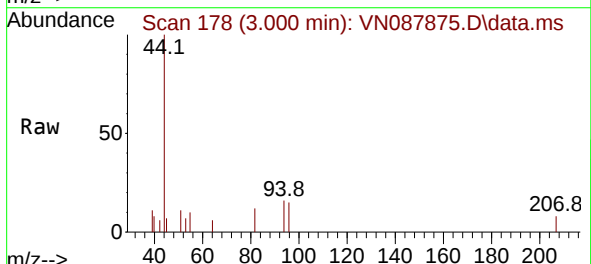


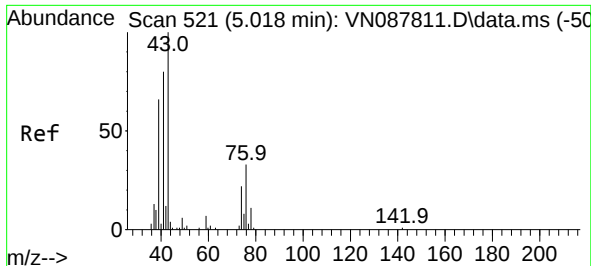
Tgt Ion:128 Resp: 49388
Ion Ratio Lower Upper
128 100
49 168.4 0.0 464.3
130 131.8 0.0 300.5



#5
Bromomethane
Concen: 0.206 ug/l
RT: 3.000 min Scan# 178
Delta R.T. 0.023 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

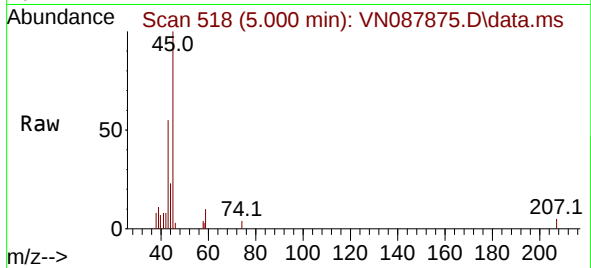
Tgt Ion: 94 Resp: 440
Ion Ratio Lower Upper
94 100
96 94.6 72.2 108.4



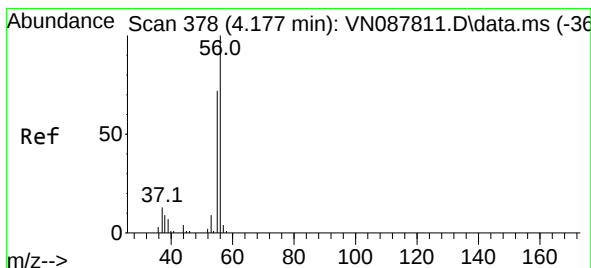
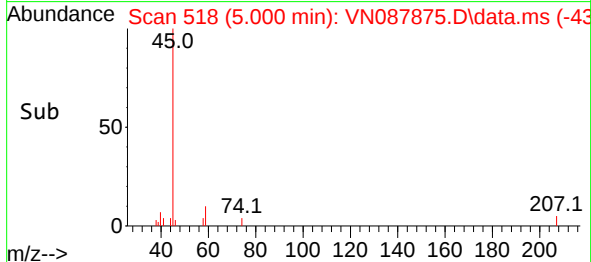
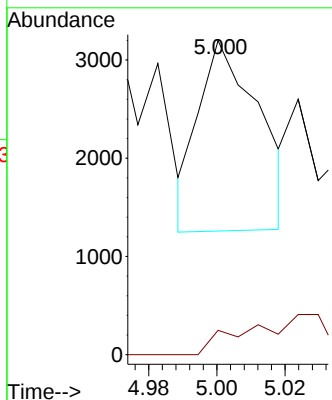


#12
Methyl Acetate
Concen: 0.519 ug/l
RT: 5.000 min Scan# 518
Delta R.T. -0.018 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

Instrument :
MSVOA_N
ClientSampleId :

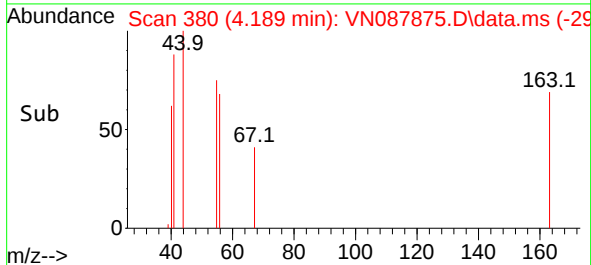
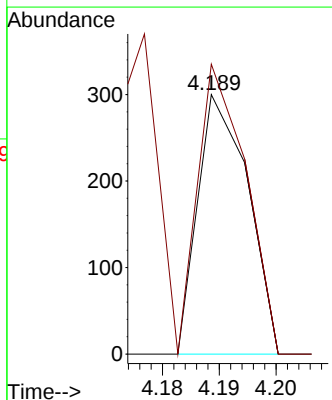
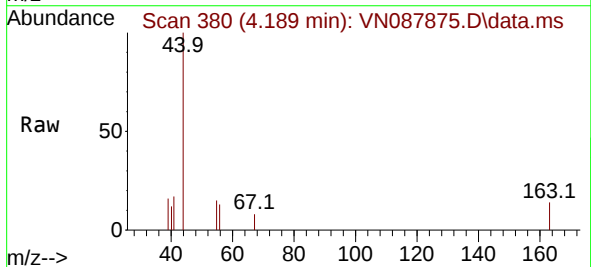


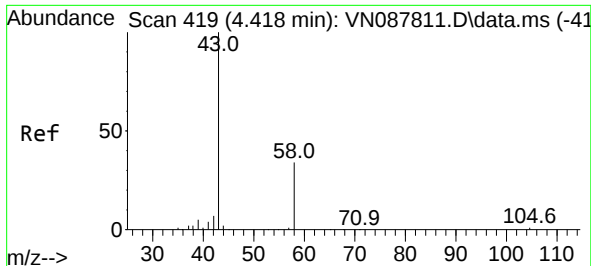
Tgt Ion: 43 Resp: 2386
Ion Ratio Lower Upper
43 100
74 11.4 17.5 26.3#



#13
Acrolein
Concen: 0.225 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

Tgt Ion: 56 Resp: 184
Ion Ratio Lower Upper
56 100
55 107.6 28.6 42.8#

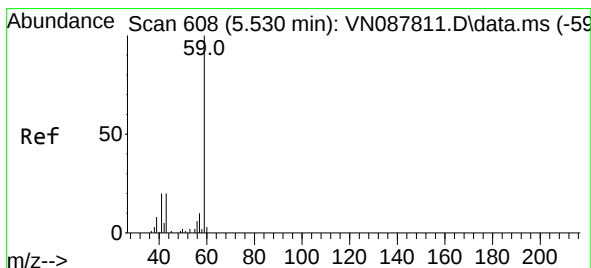
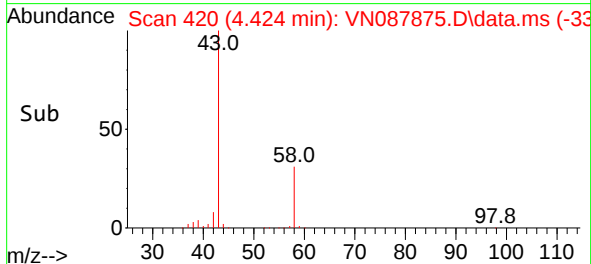
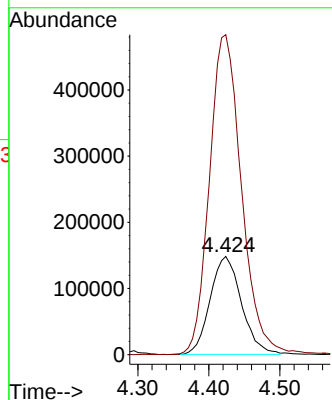
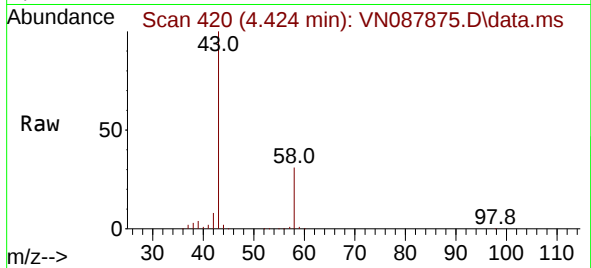




#15
Acetone
Concen: 732.949 ug/l
RT: 4.424 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

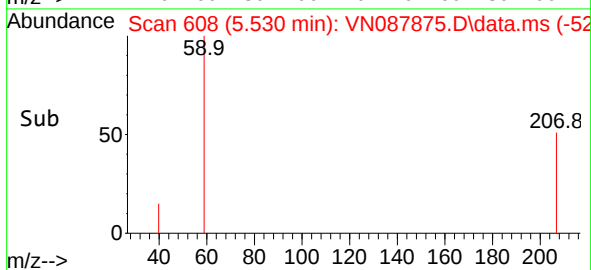
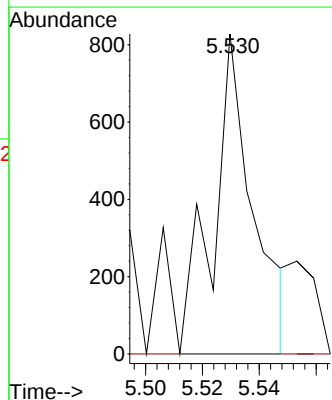
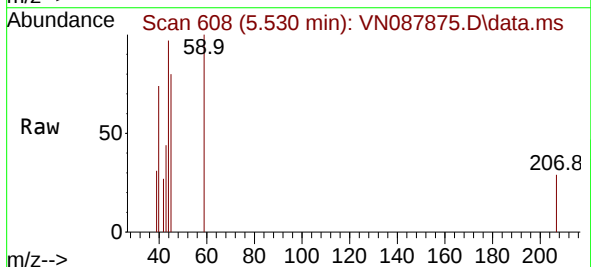
Instrument :
MSVOA_N
ClientSampleId :

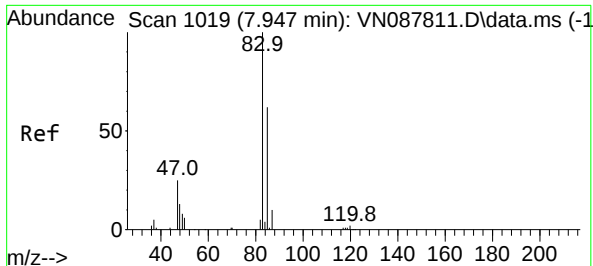
Tgt Ion: 58 Resp: 452331
Ion Ratio Lower Upper
58 100
43 325.9 250.6 376.0



#23
tert-Butyl Alcohol
Concen: 1.154 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.000 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

Tgt Ion: 59 Resp: 807
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#25

Chloroform

Concen: 12.910 ug/l

RT: 7.953 min Scan# 1020

Delta R.T. -0.000 min

Lab File: VN087875.D

Acq: 17 Sep 2025 13:32

Instrument :

MSVOA_N

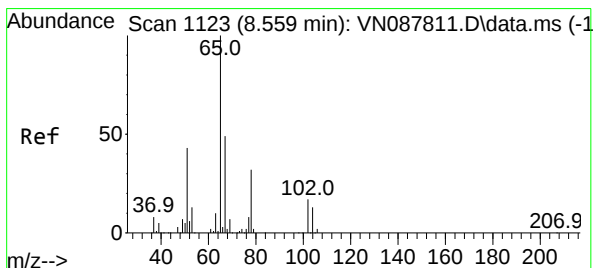
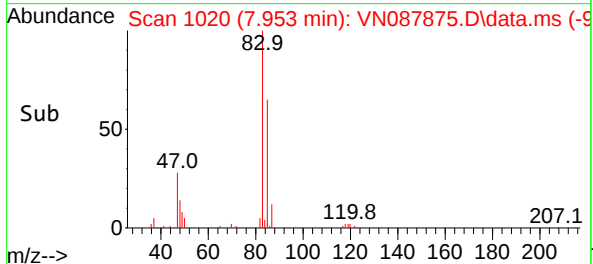
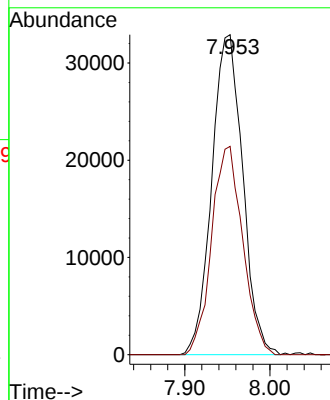
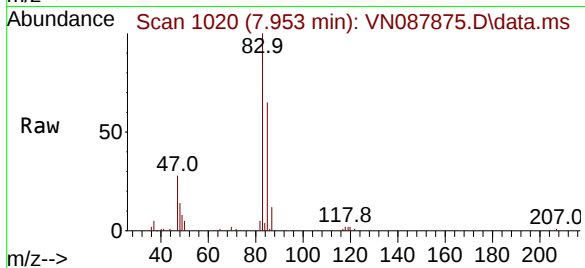
ClientSampleId :

Tgt Ion: 83 Resp: 82870

Ion Ratio Lower Upper

83 100

85 65.1 47.7 71.5



#27

1,2-Dichloroethane-d4

Concen: 29.116 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087875.D

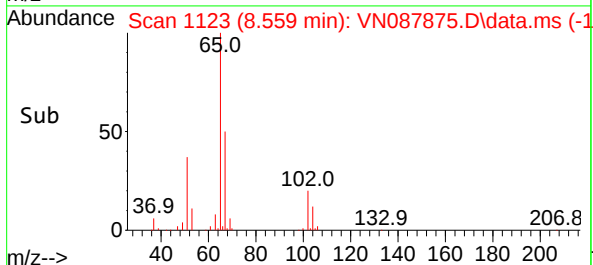
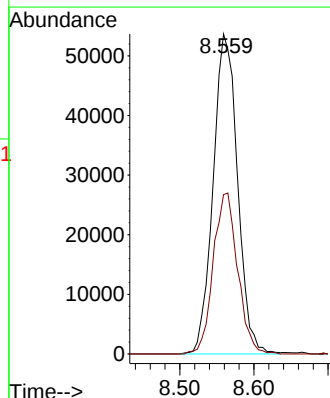
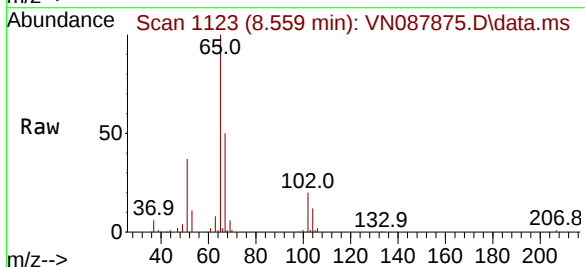
Acq: 17 Sep 2025 13:32

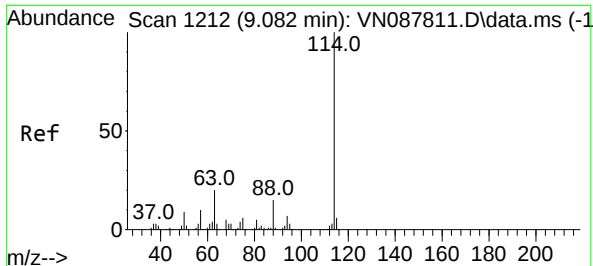
Tgt Ion: 65 Resp: 122837

Ion Ratio Lower Upper

65 100

67 50.1 39.6 59.4





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087875.D

Acq: 17 Sep 2025 13:32

Instrument :

MSVOA_N

ClientSampleId :

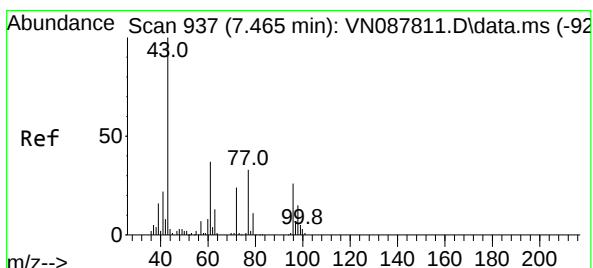
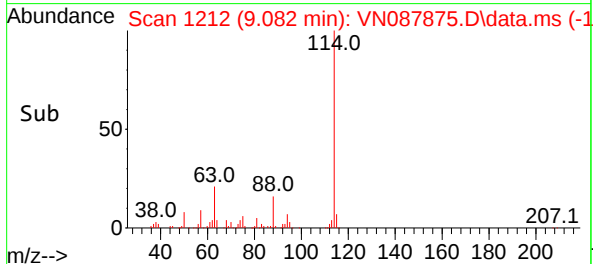
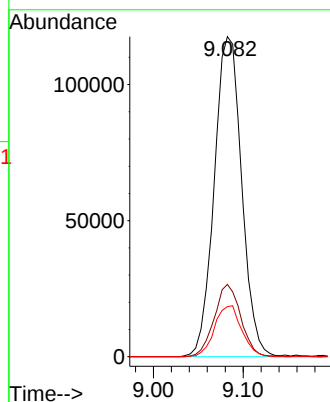
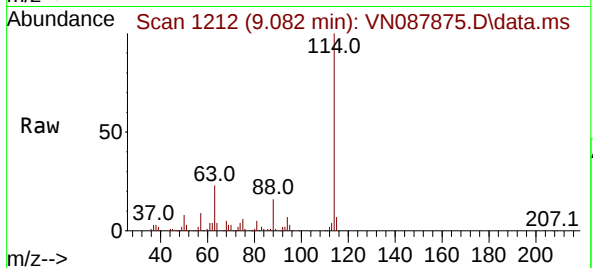
Tgt Ion:114 Resp: 249408

Ion Ratio Lower Upper

114 100

63 21.8 18.3 27.5

88 15.8 12.4 18.6



#30

2-Butanone

Concen: 1.773 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.006 min

Lab File: VN087875.D

Acq: 17 Sep 2025 13:32

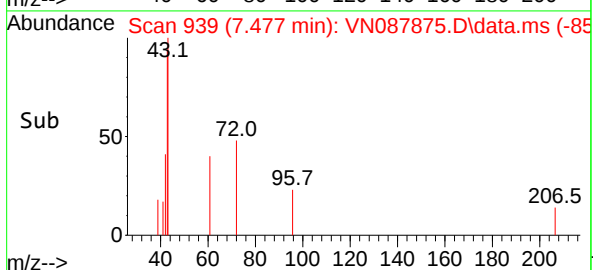
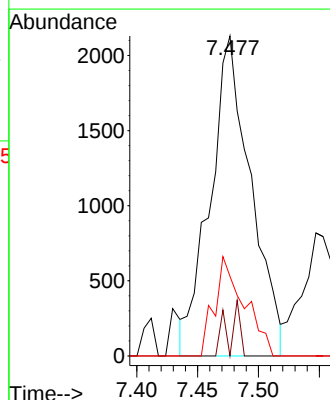
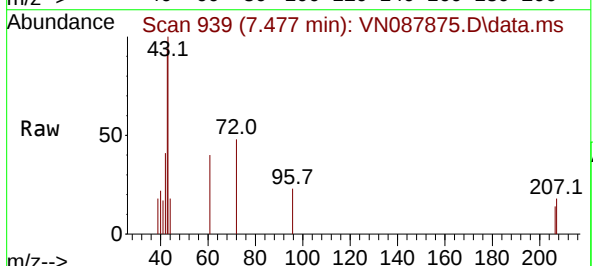
Tgt Ion: 43 Resp: 4951

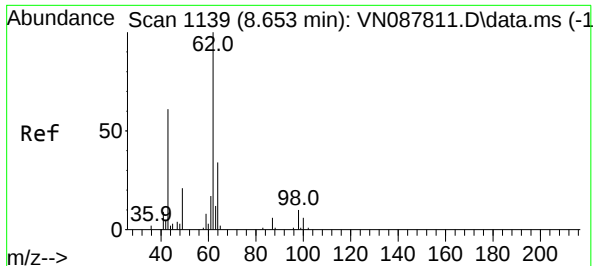
Ion Ratio Lower Upper

43 100

57 2.6 6.3 9.5#

72 0.0 21.4 32.2#





#36

1,2-Dichloroethane

Concen: 2.005 ug/l

RT: 9.077 min Scan# 1139

Delta R.T. 0.423 min

Lab File: VN087875.D

Acq: 17 Sep 2025 13:32

Instrument :

MSVOA_N

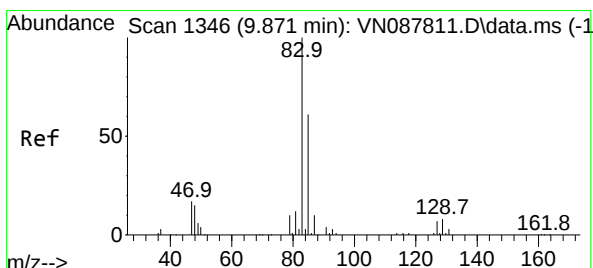
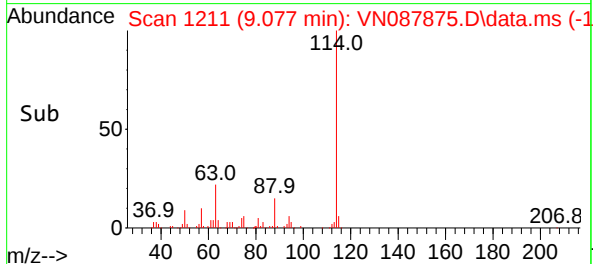
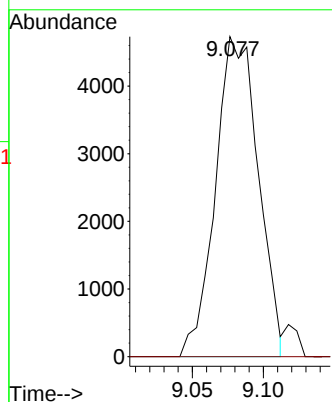
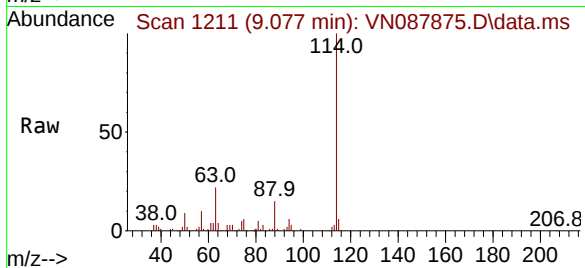
ClientSampleId :

Tgt Ion: 62 Resp: 9920

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#41

Bromodichloromethane

Concen: 4.436 ug/l

RT: 9.865 min Scan# 1345

Delta R.T. -0.006 min

Lab File: VN087875.D

Acq: 17 Sep 2025 13:32

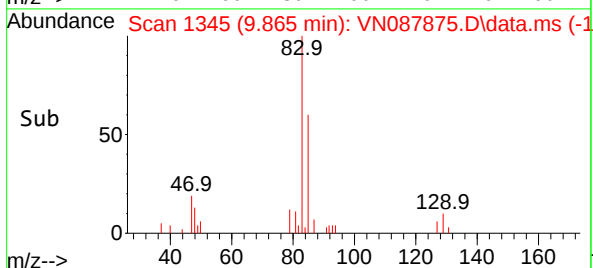
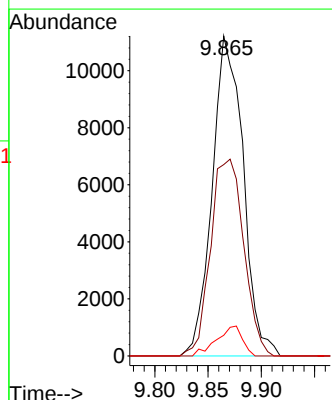
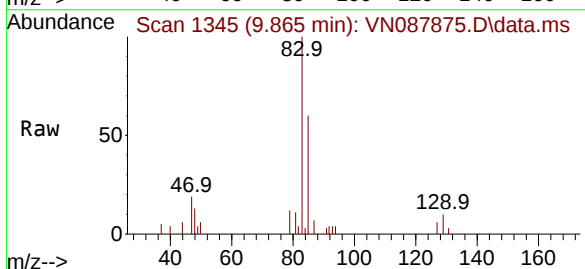
Tgt Ion: 83 Resp: 22640

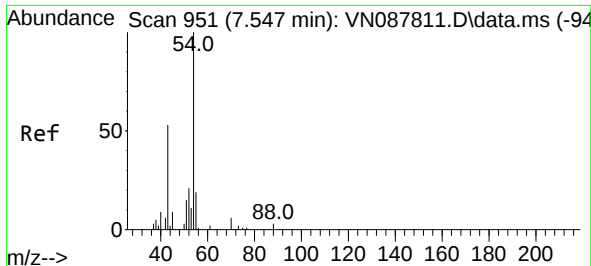
Ion Ratio Lower Upper

83 100

85 59.8 47.3 70.9

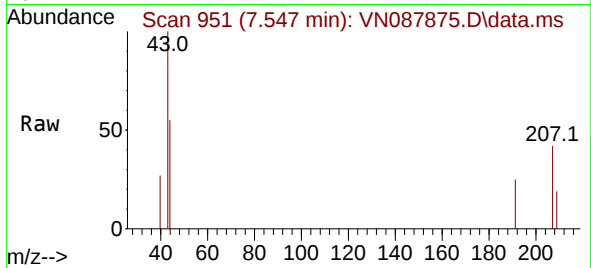
127 6.5 5.2 7.8



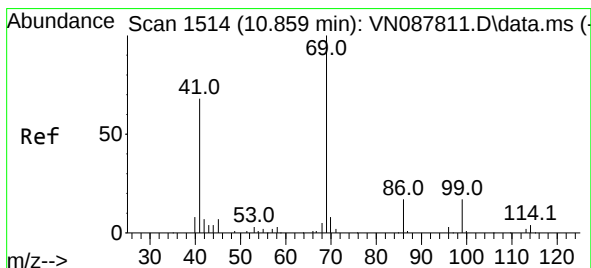
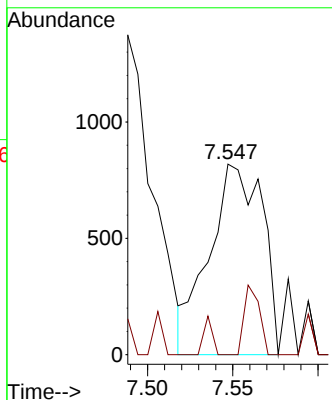
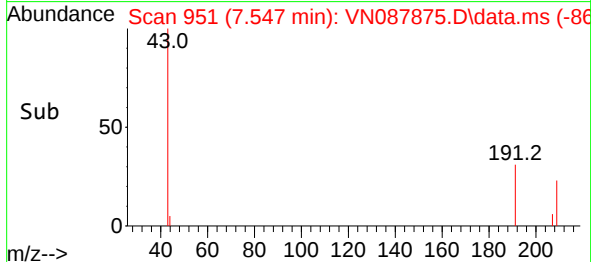


#43
Ethyl Acetate
Concen: 0.312 ug/l
RT: 7.547 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

Instrument :
MSVOA_N
ClientSampleId :

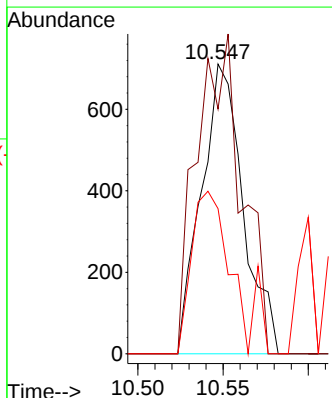
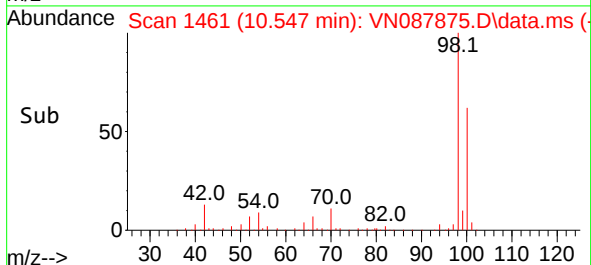
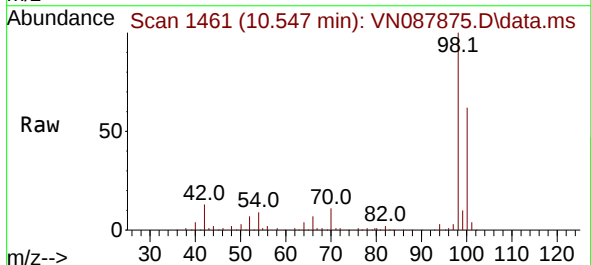


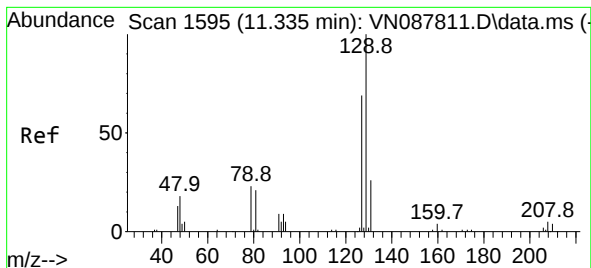
Tgt Ion: 43 Resp: 1778
Ion Ratio Lower Upper
43 100
45 10.5 10.5 15.7#



#51
Ethyl methacrylate
Concen: 0.242 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.306 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

Tgt Ion: 69 Resp: 1214
Ion Ratio Lower Upper
69 100
41 84.5 33.7 101.0
39 50.1 20.3 60.9

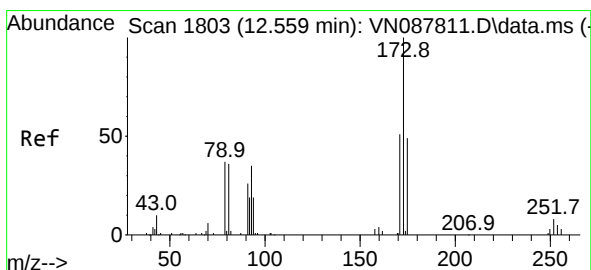
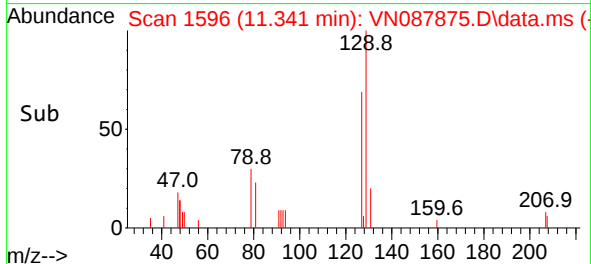
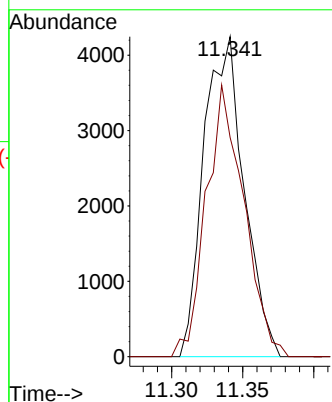
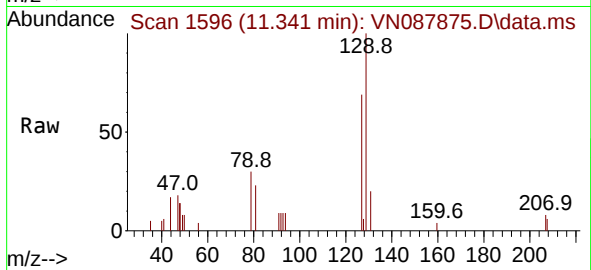




#53
Dibromochloromethane
Concen: 2.313 ug/l
RT: 11.341 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

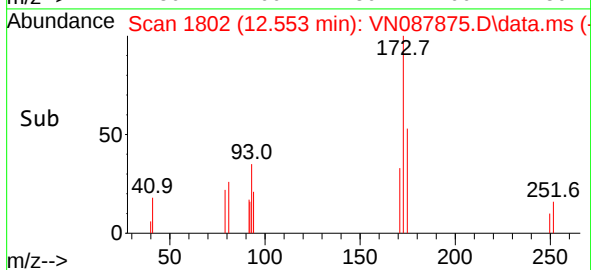
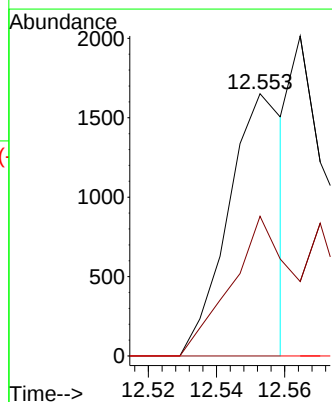
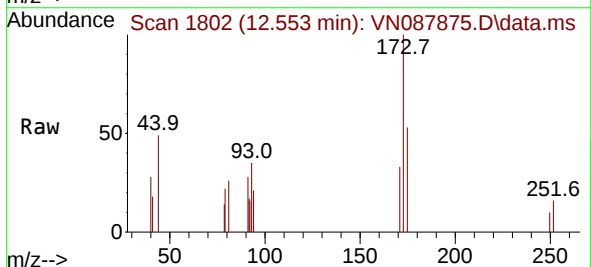
Instrument :
MSVOA_N
ClientSampleId :

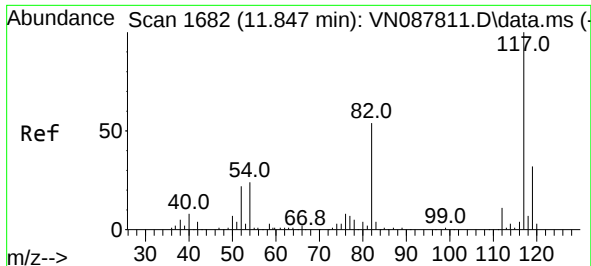
Tgt Ion:129 Resp: 8362
Ion Ratio Lower Upper
129 100
127 79.7 42.6 128.0



#56
Bromoform
Concen: 0.800 ug/l
RT: 12.553 min Scan# 1802
Delta R.T. -0.006 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

Tgt Ion:173 Resp: 1890
Ion Ratio Lower Upper
173 100
175 56.2 39.8 59.6
254 0.0 6.2 9.4#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.841 min Scan# 117

Delta R.T. -0.000 min

Lab File: VN087875.D

Acq: 17 Sep 2025 13:32

Instrument :

MSVOA_N

ClientSampleId :

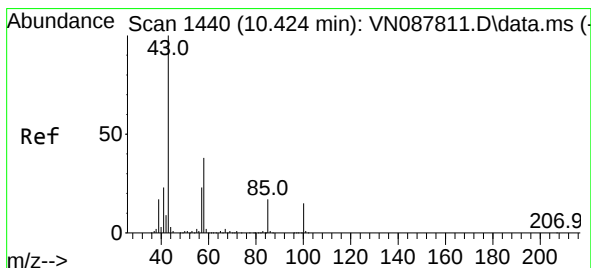
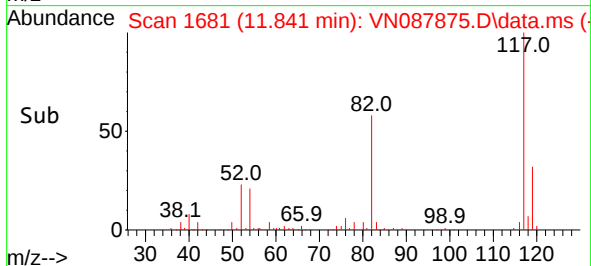
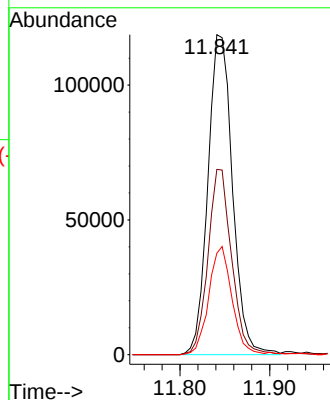
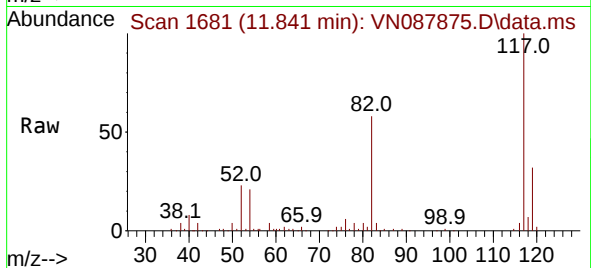
Tgt Ion:117 Resp: 226027

Ion Ratio Lower Upper

117 100

82 55.9 45.9 68.9

119 31.8 25.3 37.9



#58

4-Methyl-2-Pentanone

Concen: 0.352 ug/l

RT: 10.459 min Scan# 1446

Delta R.T. 0.035 min

Lab File: VN087875.D

Acq: 17 Sep 2025 13:32

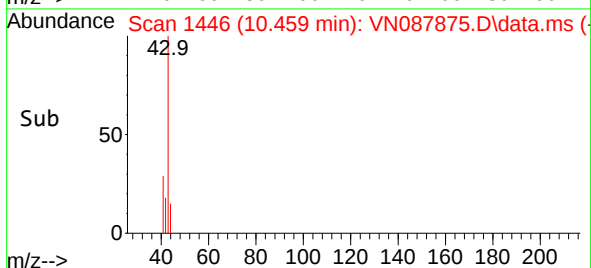
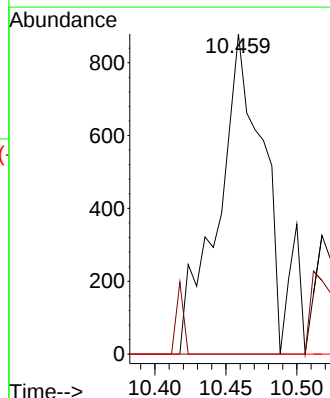
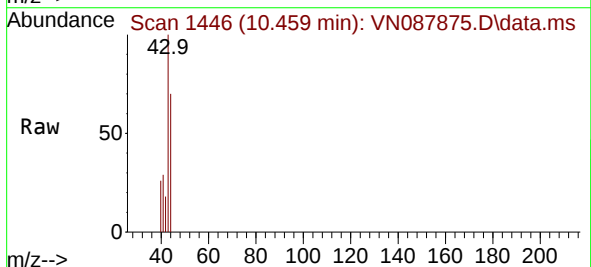
Tgt Ion: 43 Resp: 1881

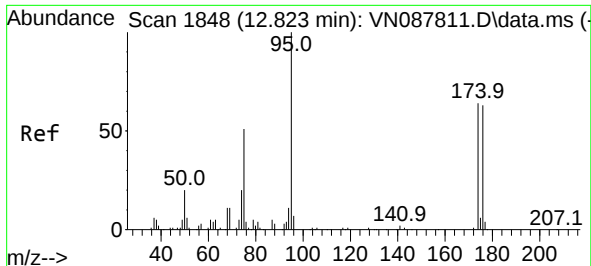
Ion Ratio Lower Upper

43 100

58 0.0 29.6 44.4#

85 0.0 13.0 19.4#

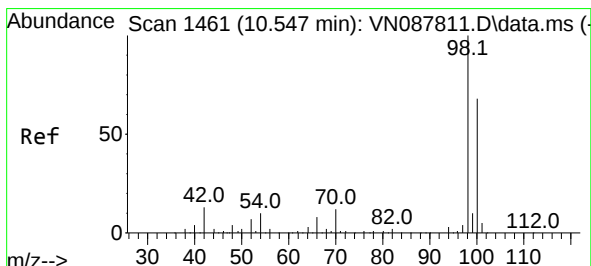
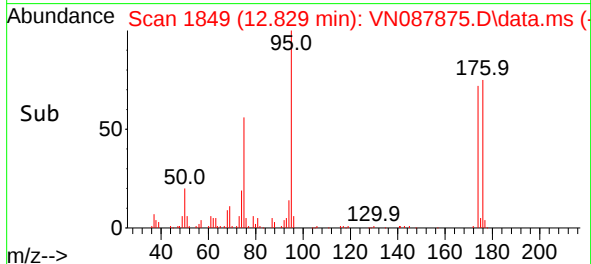
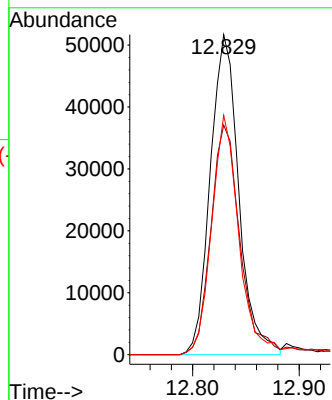
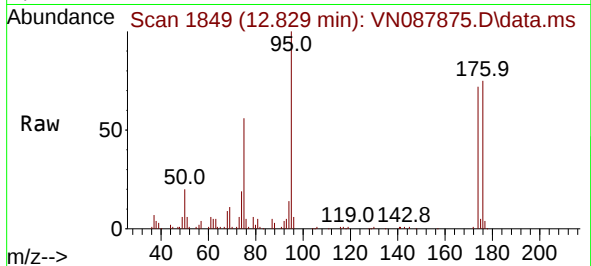




#60
4-Bromofluorobenzene
Concen: 26.403 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

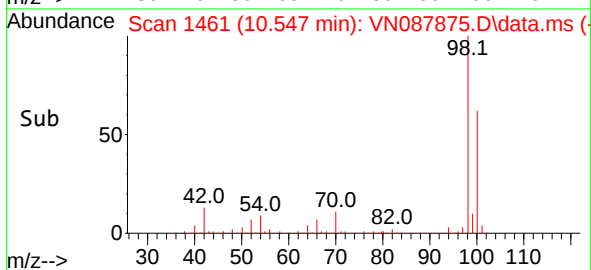
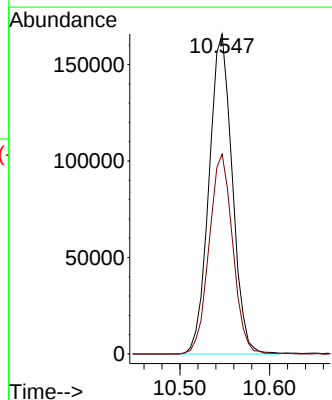
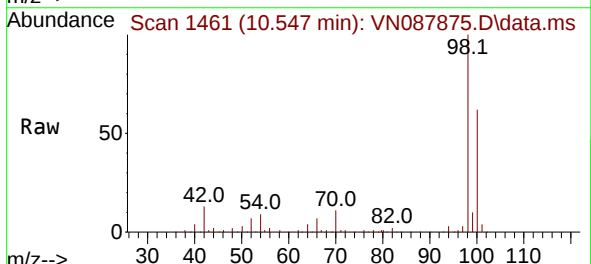
Instrument :
MSVOA_N
ClientSampleId :

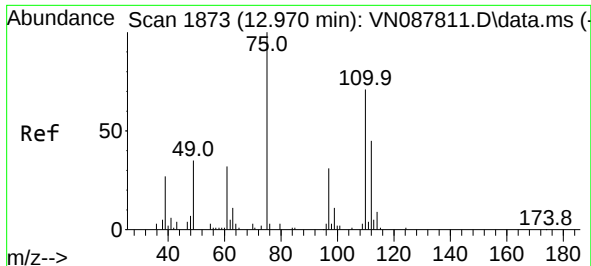
Tgt Ion: 95 Resp: 95958
Ion Ratio Lower Upper
95 100
174 71.4 55.4 83.0
176 71.2 51.5 77.3



#63
Toluene-d8
Concen: 28.352 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

Tgt Ion: 98 Resp: 298020
Ion Ratio Lower Upper
98 100
100 63.4 50.6 76.0

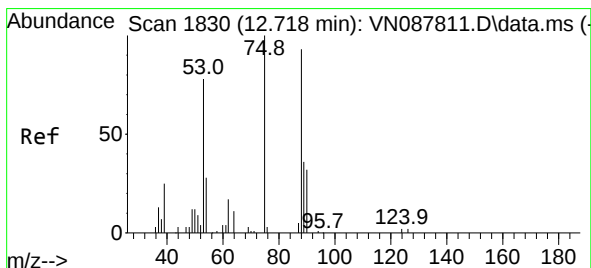
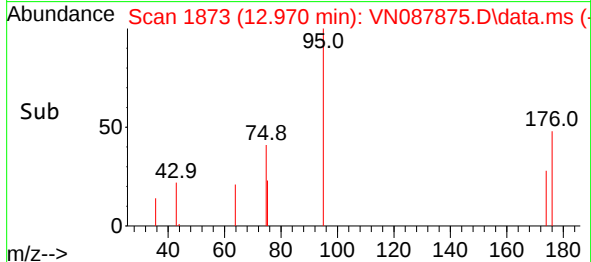
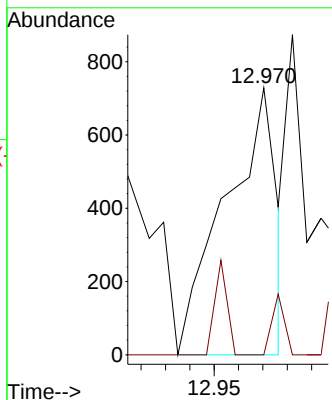
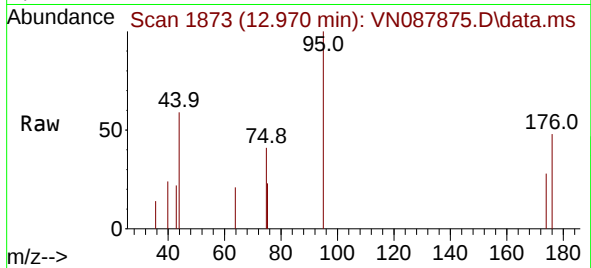




#72
1,2,3-Trichloropropane
Concen: 0.222 ug/l
RT: 12.970 min Scan# 1848
Delta R.T. -0.000 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 1053
Ion Ratio Lower Upper
75 100
77 0.0 0.0 378.8



#77
t-1,4-Dichloro-2-butene
Concen: 32.908 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087875.D
Acq: 17 Sep 2025 13:32

Tgt Ion: 75 Resp: 52774
Ion Ratio Lower Upper
75 100
53 0.0 45.3 135.9#
89 0.0 18.8 56.3#

