

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091225\
 Data File : VN087817.D
 Acq On : 12 Sep 2025 13:22
 Operator : JC\MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VIBLK

Quant Time: Sep 12 22:52:54 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)

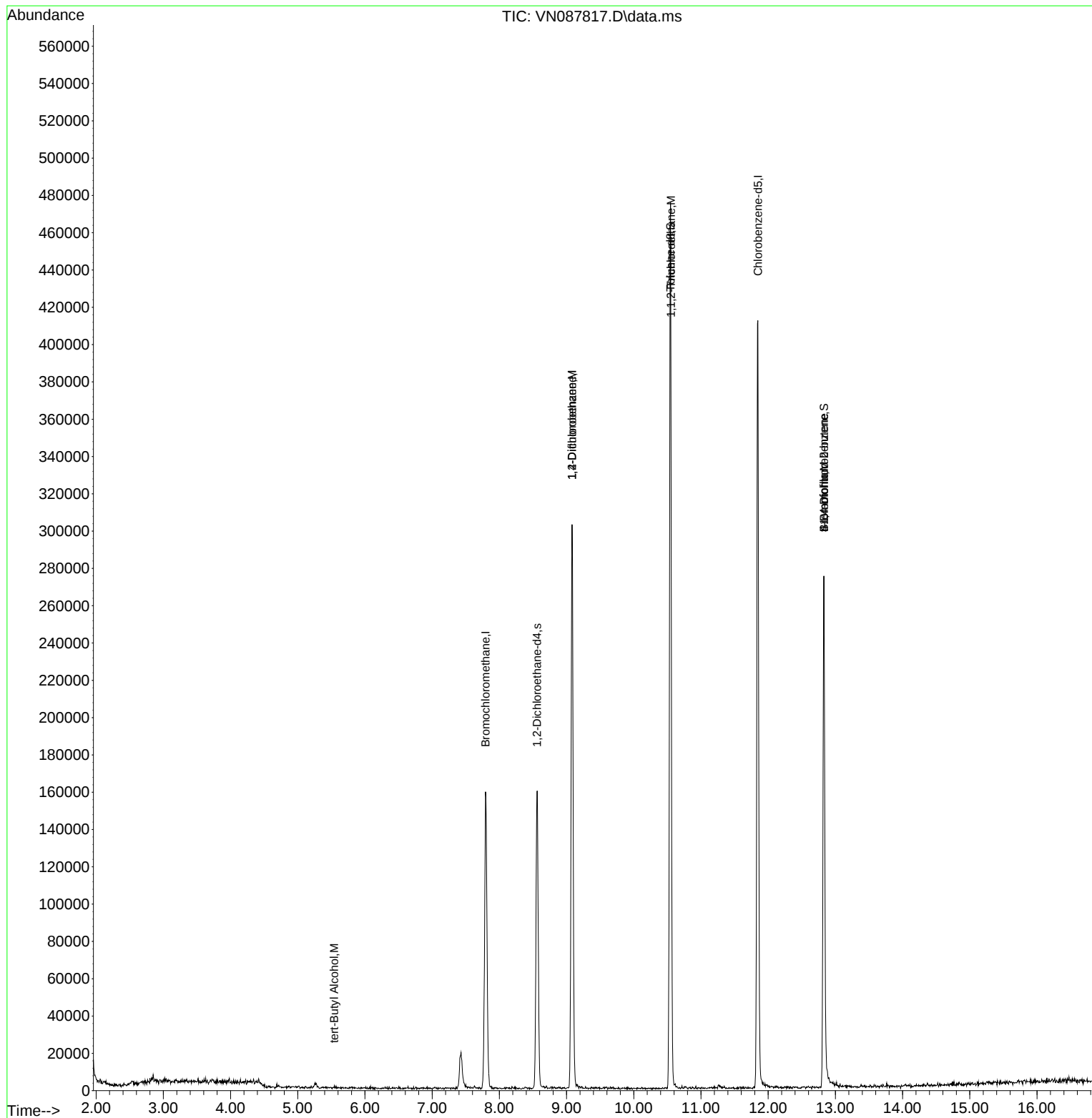
Internal Standards						
1) Bromochloromethane	7.794	128	54488	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	258877	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	235873	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	135650	29.144	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.133%
60) 4-Bromofluorobenzene	12.829	95	96123	25.345	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	84.467%
63) Toluene-d8	10.547	98	312463	28.485	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.967%
Target Compounds						
					Qvalue	
23) tert-Butyl Alcohol	5.541	59	235	0.305	ug/l #	100
36) 1,2-Dichloroethane	9.082	62	9986	1.944	ug/l #	75
50) 1,1,2-Trichloroethane	10.553	97	12279	3.668	ug/l #	1
56) Bromoform	12.829	173	1261	0.514	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.829	75	51984	31.062	ug/l #	15

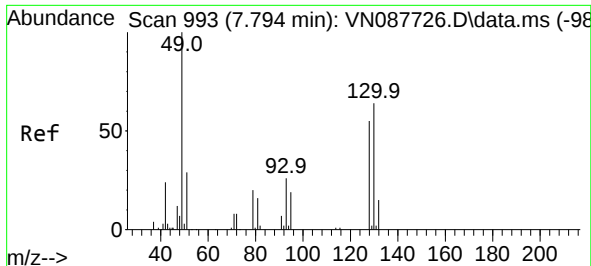
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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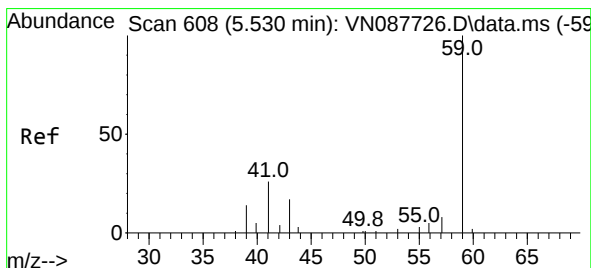
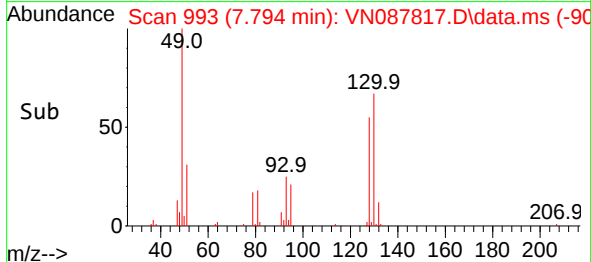
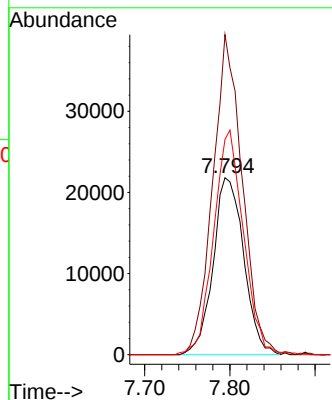
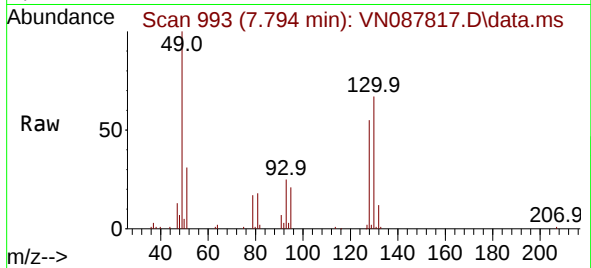




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.000 min
Lab File: VN087817.D
Acq: 12 Sep 2025 13:22

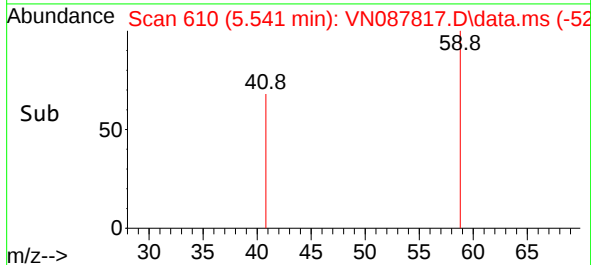
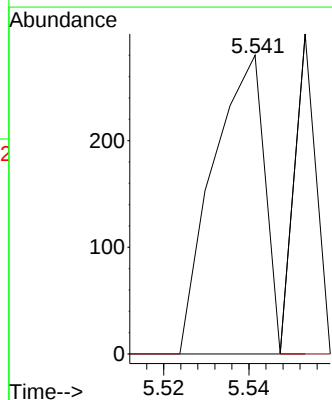
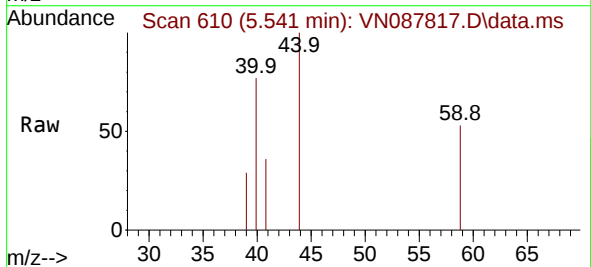
Instrument :
MSVOA_N
ClientSampleId :
VIBLK

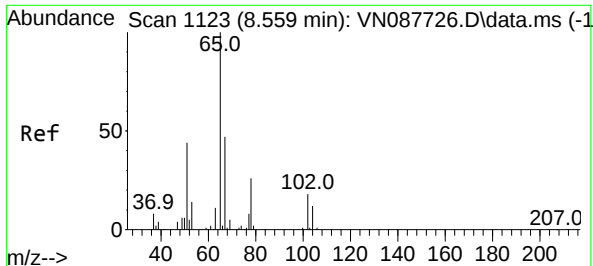
Tgt Ion:128 Resp: 54488
Ion Ratio Lower Upper
128 100
49 173.9 0.0 464.3
130 123.6 0.0 300.5



#23
tert-Butyl Alcohol
Concen: 0.305 ug/l
RT: 5.541 min Scan# 610
Delta R.T. 0.012 min
Lab File: VN087817.D
Acq: 12 Sep 2025 13:22

Tgt Ion: 59 Resp: 235
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 29.144 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087817.D

Acq: 12 Sep 2025 13:22

Instrument :

MSVOA_N

ClientSampleId :

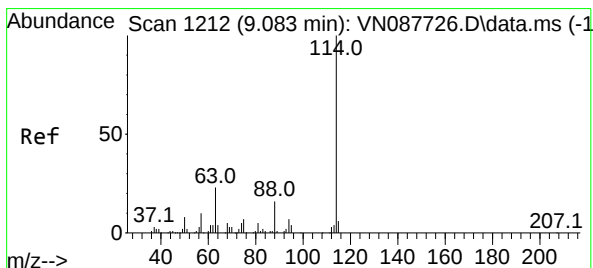
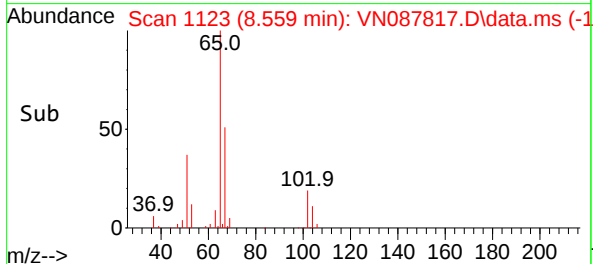
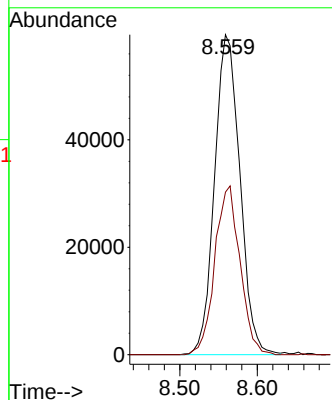
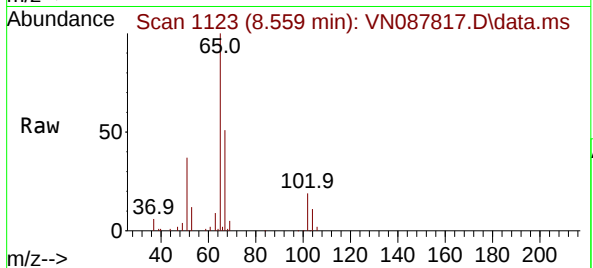
VIBLK

Tgt Ion: 65 Resp: 135650

Ion Ratio Lower Upper

65 100

67 52.3 39.6 59.4



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087817.D

Acq: 12 Sep 2025 13:22

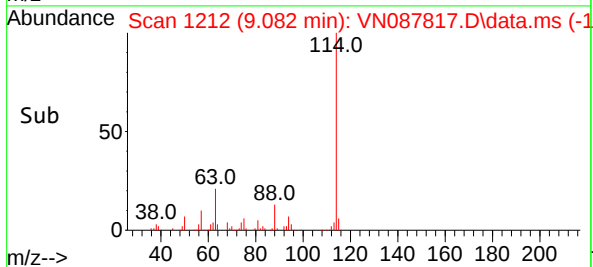
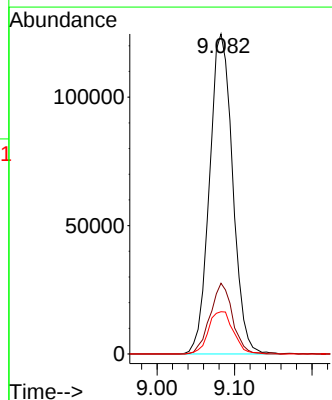
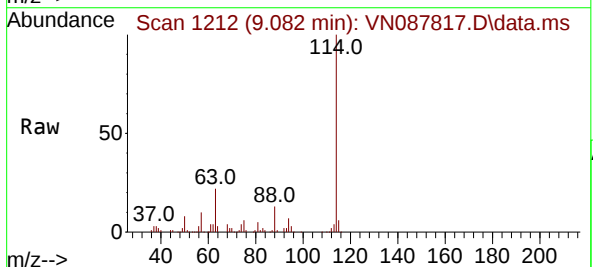
Tgt Ion: 114 Resp: 258877

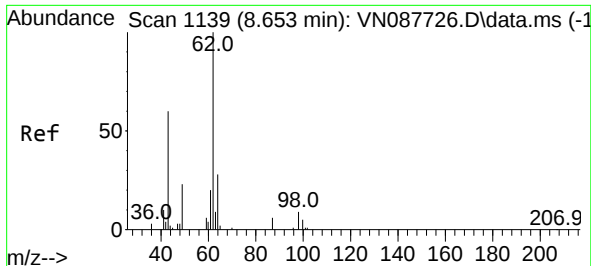
Ion Ratio Lower Upper

114 100

63 21.3 18.3 27.5

88 14.2 12.4 18.6





#36

1,2-Dichloroethane

Concen: 1.944 ug/l

RT: 9.082 min Scan# 1

Delta R.T. 0.429 min

Lab File: VN087817.D

Acq: 12 Sep 2025 13:22

Instrument :

MSVOA_N

ClientSampleId :

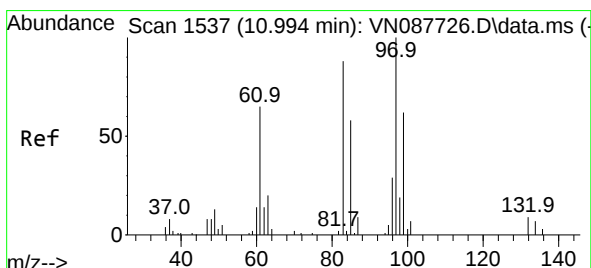
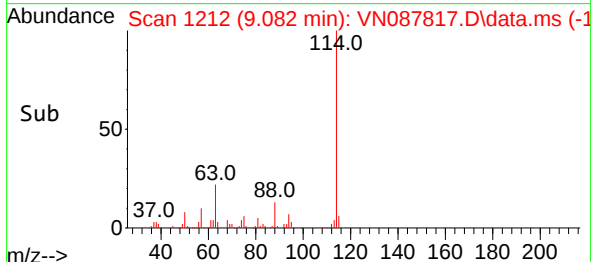
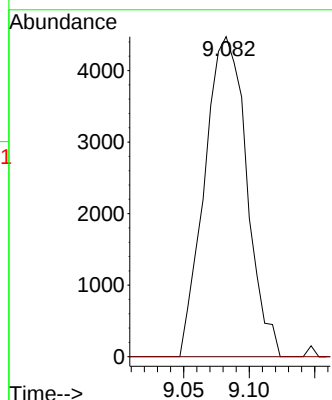
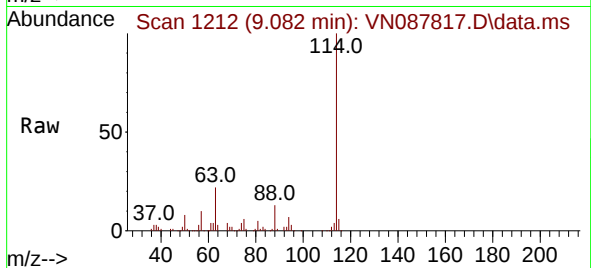
VIBLK

Tgt Ion: 62 Resp: 9986

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#50

1,1,2-Trichloroethane

Concen: 3.668 ug/l

RT: 10.553 min Scan# 1462

Delta R.T. -0.441 min

Lab File: VN087817.D

Acq: 12 Sep 2025 13:22

Tgt Ion: 97 Resp: 12279

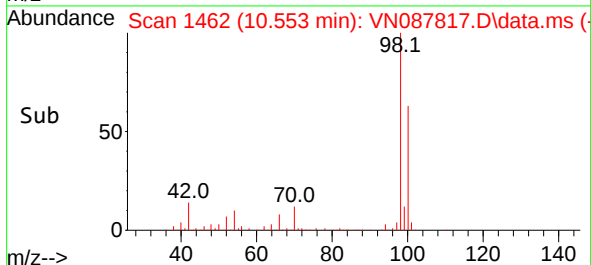
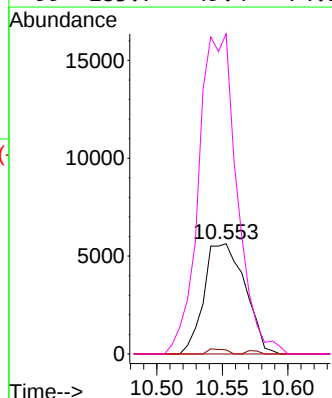
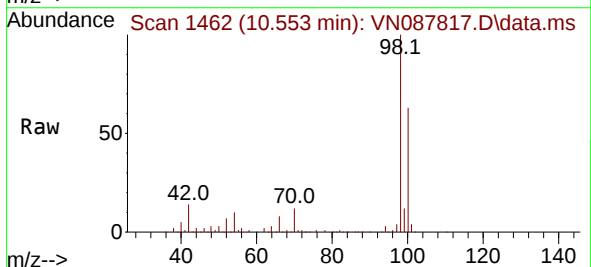
Ion Ratio Lower Upper

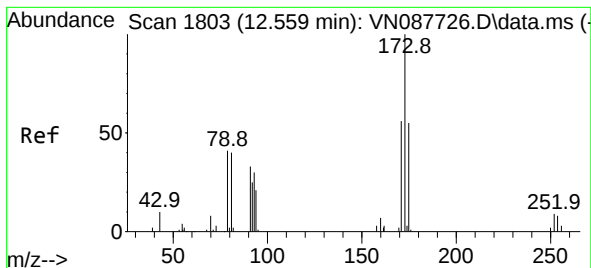
97 100

83 3.8 70.5 105.7#

85 0.0 46.3 69.5#

99 283.7 49.4 74.2#





#56

Bromoform

Concen: 0.514 ug/l

RT: 12.829 min Scan# 11

Delta R.T. 0.270 min

Lab File: VN087817.D

Acq: 12 Sep 2025 13:22

Instrument :

MSVOA_N

ClientSampleId :

VIBLK

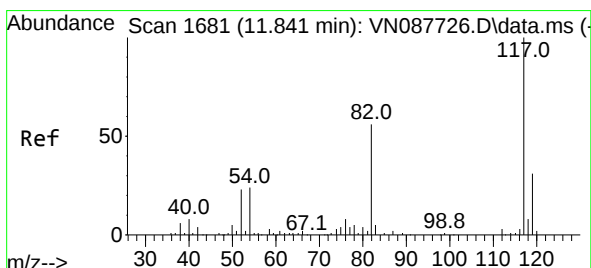
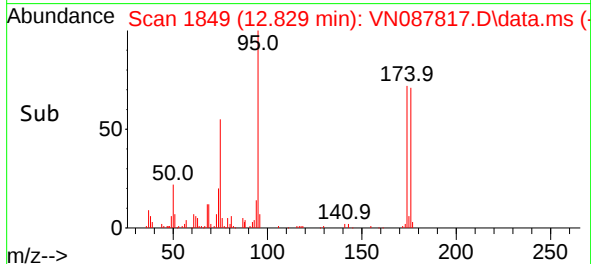
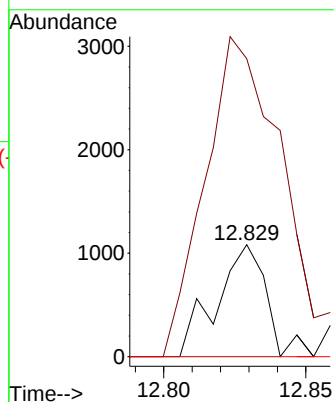
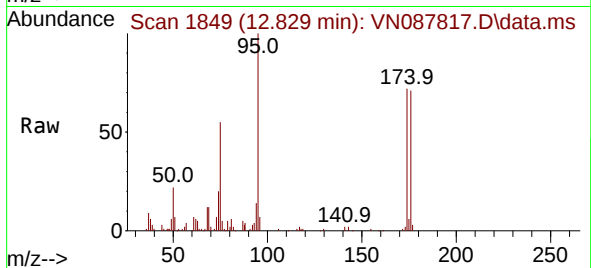
Tgt Ion:173 Resp: 1261

Ion Ratio Lower Upper

173 100

175 461.5 39.8 59.6#

254 0.0 6.2 9.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. 0.006 min

Lab File: VN087817.D

Acq: 12 Sep 2025 13:22

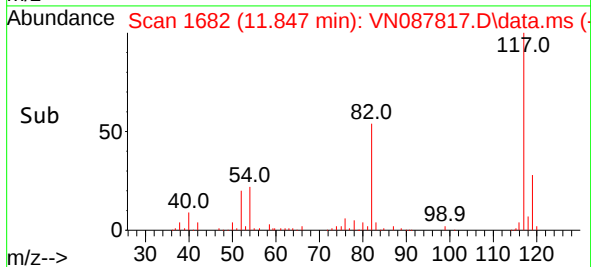
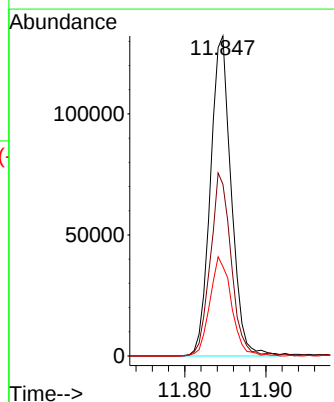
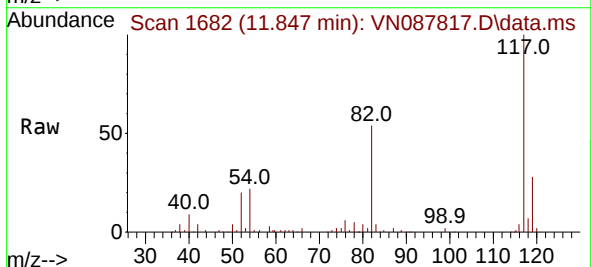
Tgt Ion:117 Resp: 235873

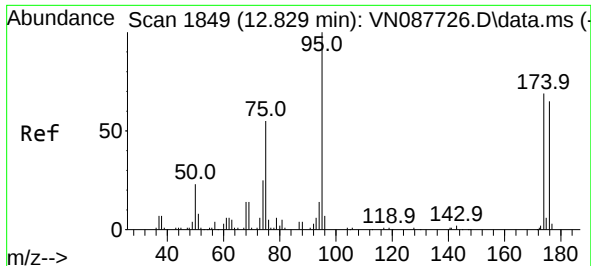
Ion Ratio Lower Upper

117 100

82 56.7 45.9 68.9

119 31.8 25.3 37.9

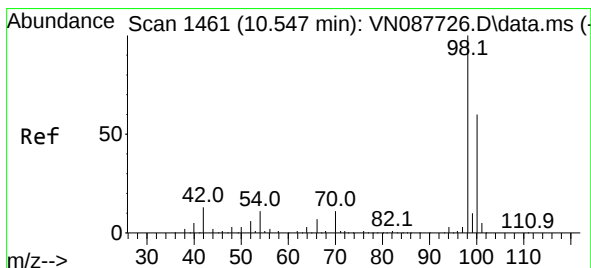
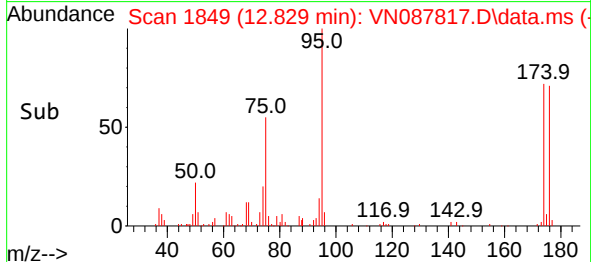
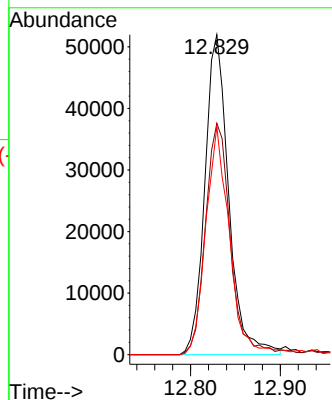
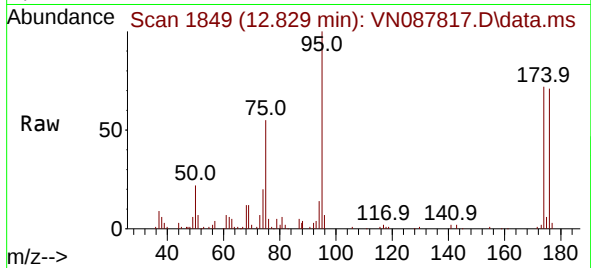




#60
4-Bromofluorobenzene
Concen: 25.345 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087817.D
Acq: 12 Sep 2025 13:22

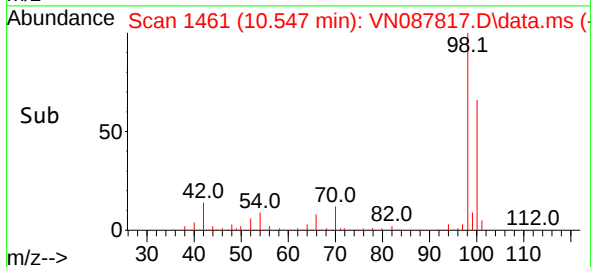
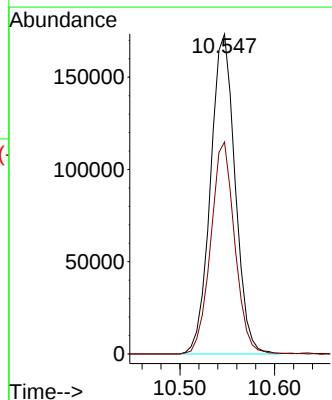
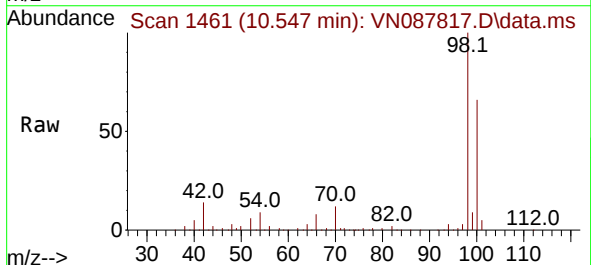
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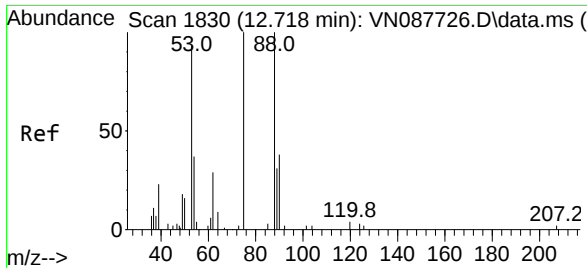
Tgt Ion: 95 Resp: 96123
Ion Ratio Lower Upper
95 100
174 75.0 55.4 83.0
176 69.0 51.5 77.3



#63
Toluene-d8
Concen: 28.485 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087817.D
Acq: 12 Sep 2025 13:22

Tgt Ion: 98 Resp: 312463
Ion Ratio Lower Upper
98 100
100 64.7 50.6 76.0





#77
t-1,4-Dichloro-2-butene
Concen: 31.062 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087817.D
Acq: 12 Sep 2025 13:22

Instrument :
MSVOA_N
ClientSampleId :
VIBLK

Tgt Ion: 75 Resp: 51984
Ion Ratio Lower Upper
75 100
53 0.9 45.3 135.9#
89 0.0 18.8 56.3#

