

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072425\
 Data File : VN087414.D
 Acq On : 24 Jul 2025 13:28
 Operator : JC\MD
 Sample : Q2683-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 25 04:53:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 24 05:11:26 2025
 Response via : Initial Calibration

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

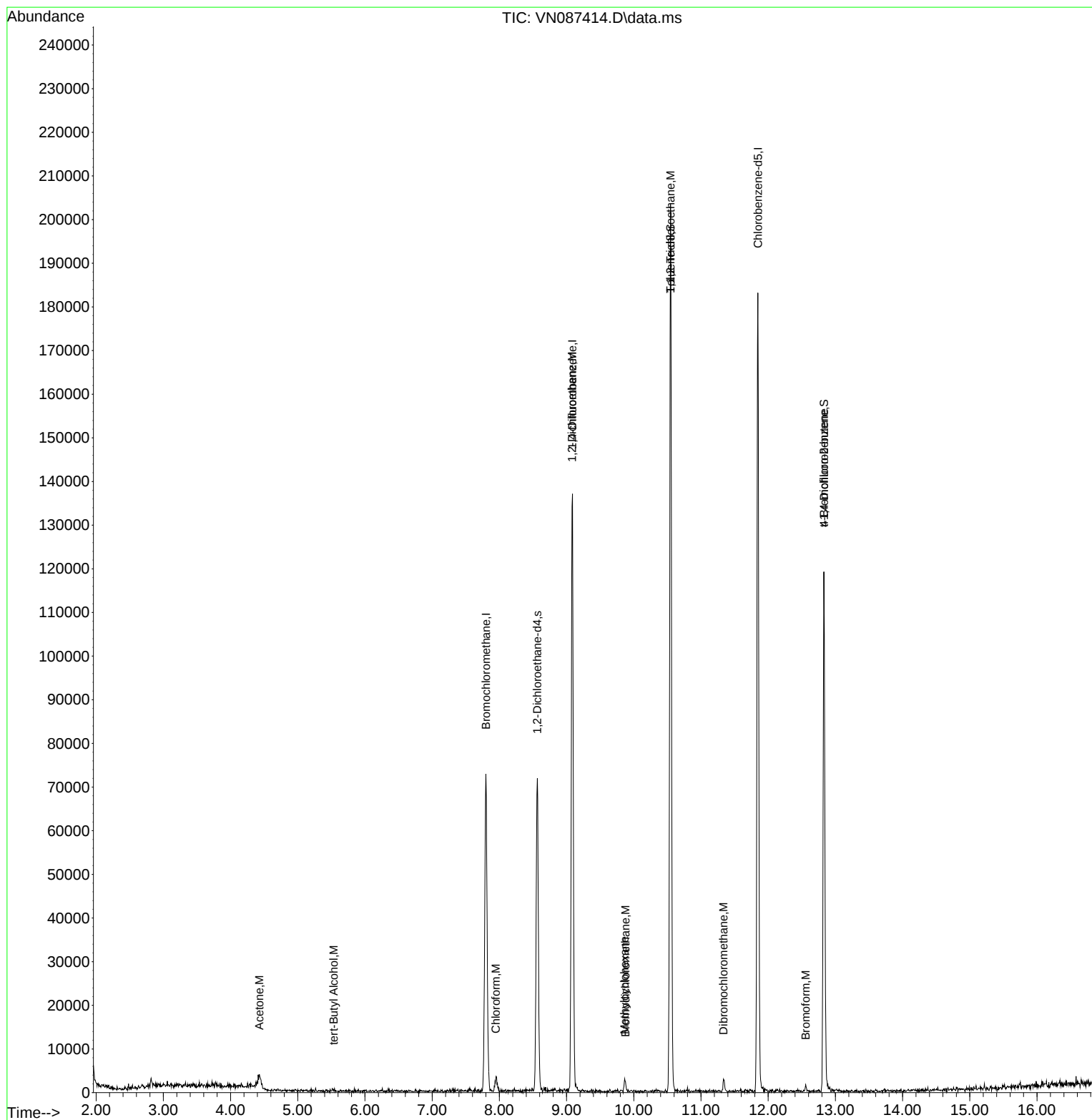
Internal Standards						
1) Bromochloromethane	7.800	128	25233	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.088	114	113063	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	102862	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	61763	29.679	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.933%
60) 4-Bromofluorobenzene	12.829	95	40328	23.500	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	78.333%
63) Toluene-d8	10.547	98	135439	28.953	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.500%
Target Compounds						
					Qvalue	
15) Acetone	4.430	58	1256	3.787	ug/l #	30
23) tert-Butyl Alcohol	5.536	59	270	0.839	ug/l #	100
25) Chloroform	7.947	83	1867	0.583	ug/l	98
36) 1,2-Dichloroethane	9.082	62	4439	1.806	ug/l #	77
38) Methylcyclohexane	9.865	83	1130	0.554	ug/l #	15
41) Bromodichloromethane	9.876	83	1130	0.470	ug/l #	92
50) 1,1,2-Trichloroethane	10.547	97	5137	3.285	ug/l #	1
53) Dibromochloromethane	11.335	129	783	0.427	ug/l #	1
56) Bromoform	12.559	173	389	0.298	ug/l #	36
77) t-1,4-Dichloro-2-butene	12.829	75	23170	28.451	ug/l #	15

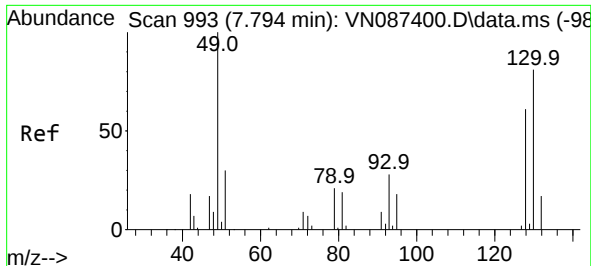
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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Quant Time: Jul 25 04:53:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072325W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 24 05:11:26 2025
Response via : Initial Calibration

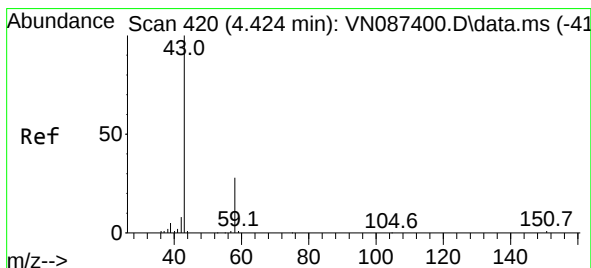
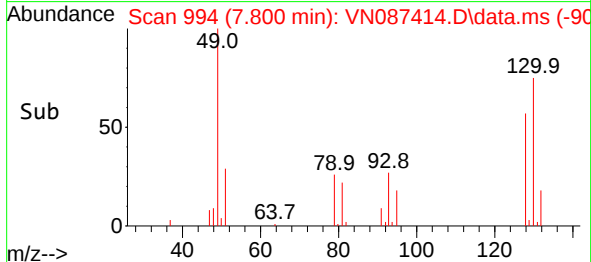
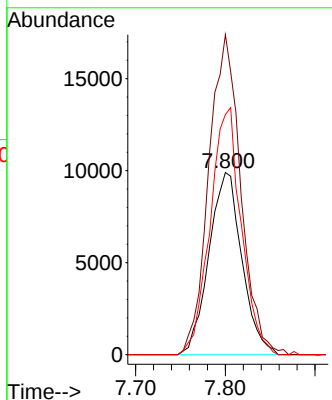
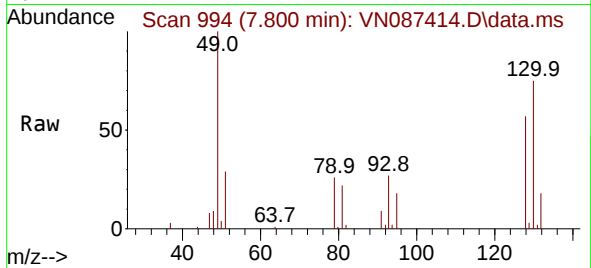




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.006 min
Lab File: VN087414.D
Acq: 24 Jul 2025 13:28

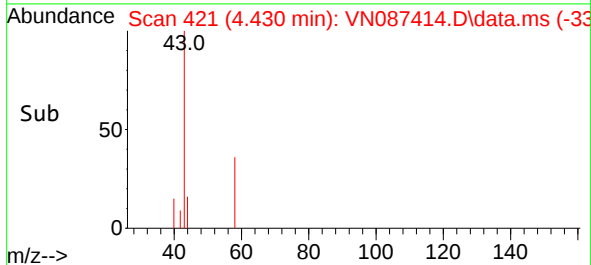
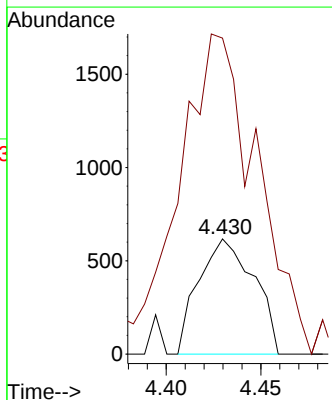
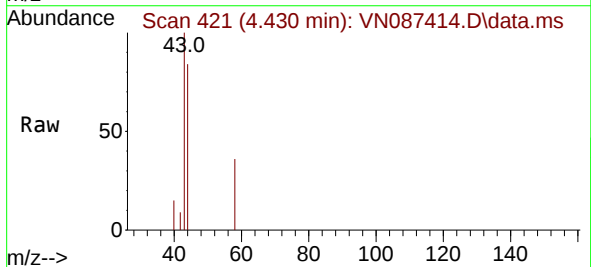
Instrument :
MSVOA_N
ClientSampleId :

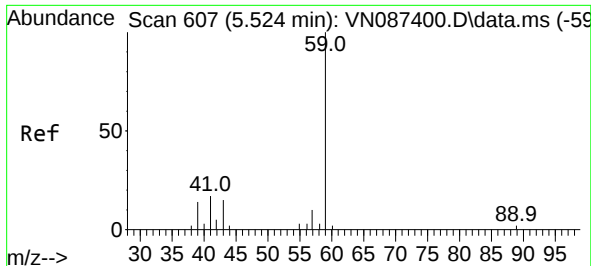
Tgt Ion:128 Resp: 25233
Ion Ratio Lower Upper
128 100
49 170.6 0.0 446.2
130 128.4 0.0 331.0



#15
Acetone
Concen: 3.787 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087414.D
Acq: 24 Jul 2025 13:28

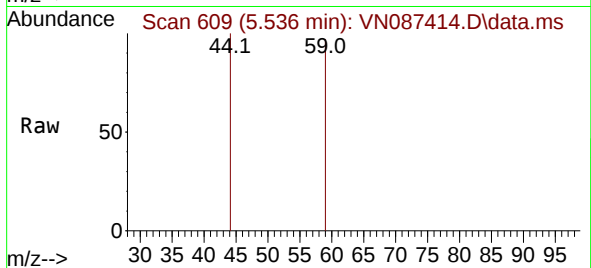
Tgt Ion: 58 Resp: 1256
Ion Ratio Lower Upper
58 100
43 201.1 283.4 425.0#



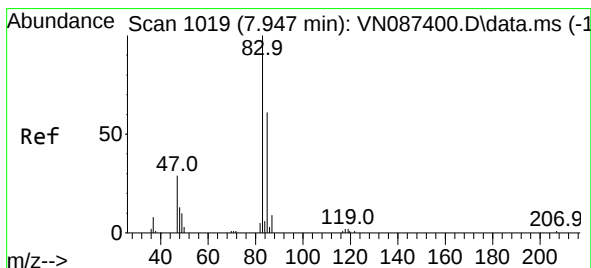
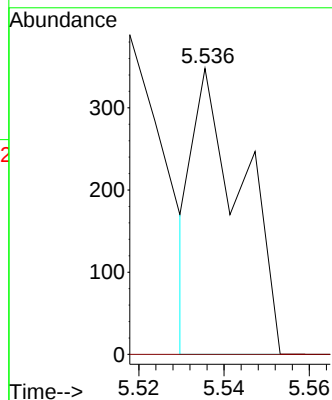
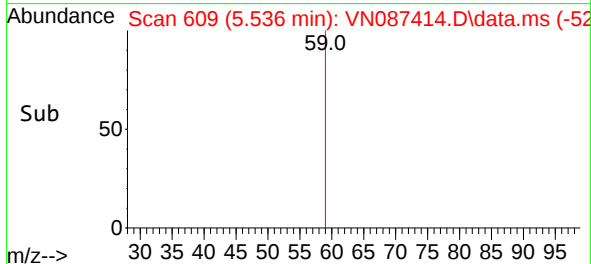


#23
tert-Butyl Alcohol
Concen: 0.839 ug/l
RT: 5.536 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN087414.D
Acq: 24 Jul 2025 13:28

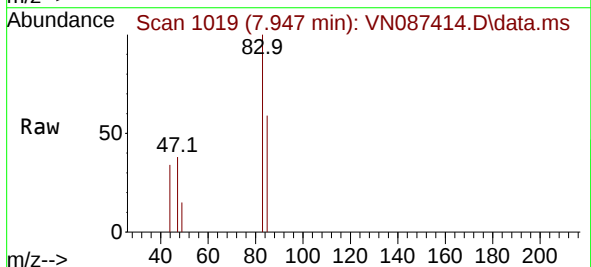
Instrument :
MSVOA_N
ClientSampleId :



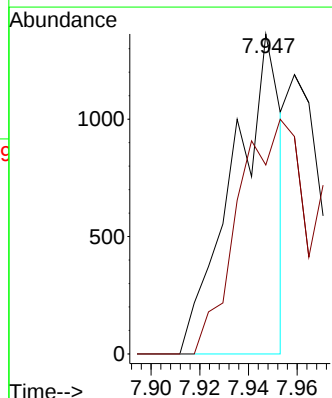
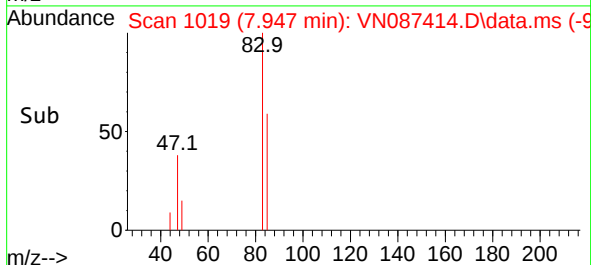
Tgt Ion: 59 Resp: 270
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

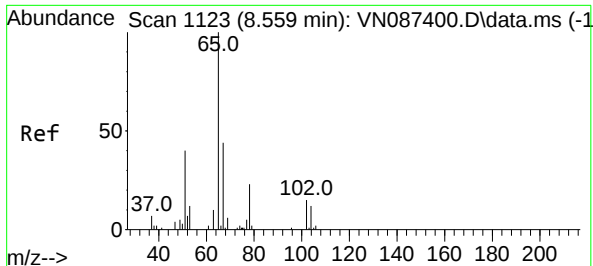


#25
Chloroform
Concen: 0.583 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VN087414.D
Acq: 24 Jul 2025 13:28



Tgt Ion: 83 Resp: 1867
Ion Ratio Lower Upper
83 100
85 59.1 48.6 73.0

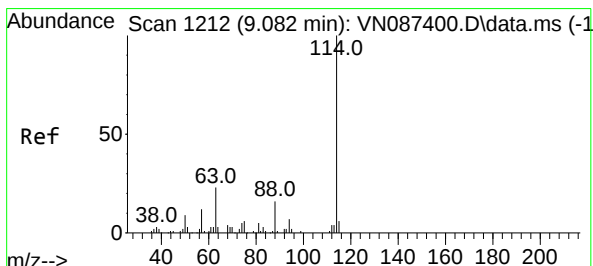
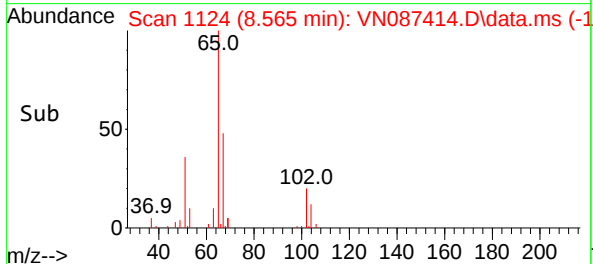
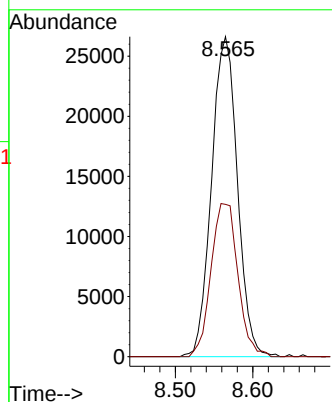
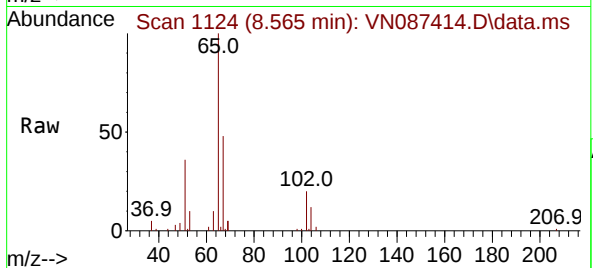




#27
1,2-Dichloroethane-d4
Concen: 29.679 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN087414.D
Acq: 24 Jul 2025 13:28

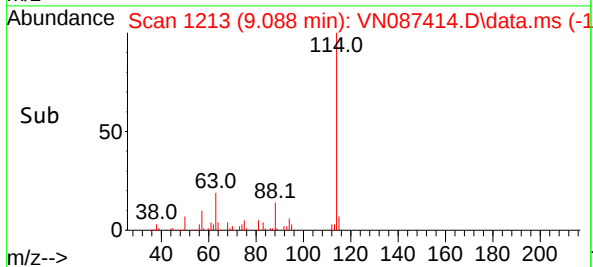
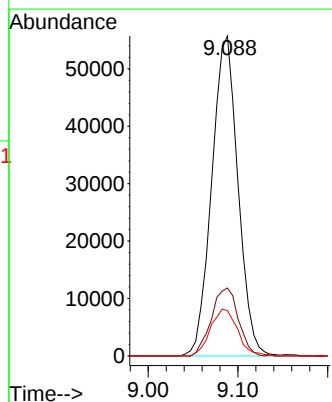
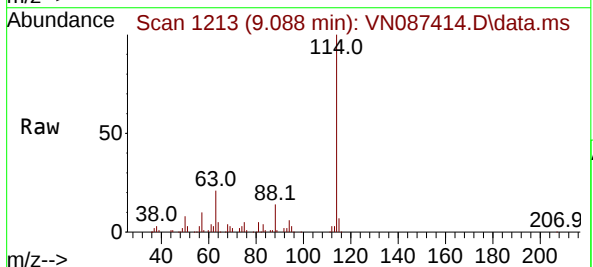
Instrument :
MSVOA_N
ClientSampleId :

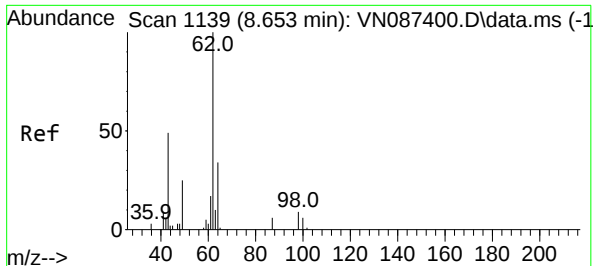
Tgt Ion: 65 Resp: 61763
Ion Ratio Lower Upper
65 100
67 49.3 40.2 60.4



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.088 min Scan# 1213
Delta R.T. 0.006 min
Lab File: VN087414.D
Acq: 24 Jul 2025 13:28

Tgt Ion: 114 Resp: 113063
Ion Ratio Lower Upper
114 100
63 21.8 16.8 25.2
88 15.2 12.5 18.7





#36

1,2-Dichloroethane

Concen: 1.806 ug/l

RT: 9.082 min Scan# 1139

Delta R.T. 0.429 min

Lab File: VN087414.D

Acq: 24 Jul 2025 13:28

Instrument :

MSVOA_N

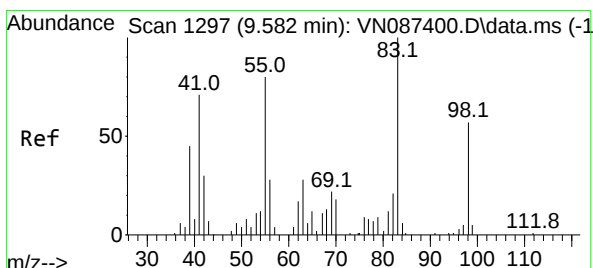
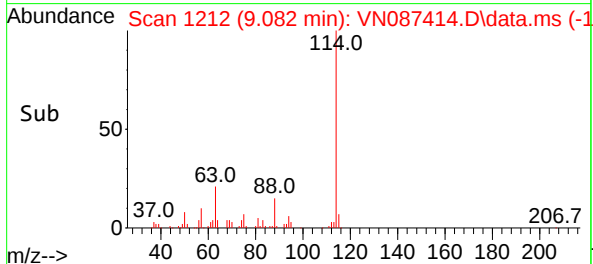
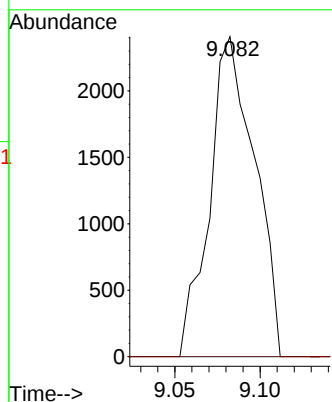
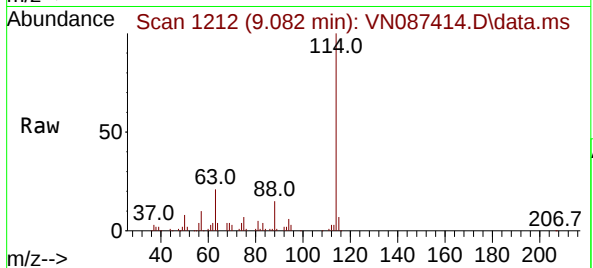
ClientSampleId :

Tgt Ion: 62 Resp: 4439

Ion Ratio Lower Upper

62 100

98 0.0 6.6 9.8#



#38

Methylcyclohexane

Concen: 0.554 ug/l

RT: 9.865 min Scan# 1345

Delta R.T. 0.282 min

Lab File: VN087414.D

Acq: 24 Jul 2025 13:28

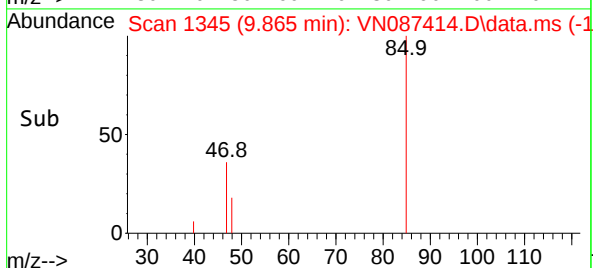
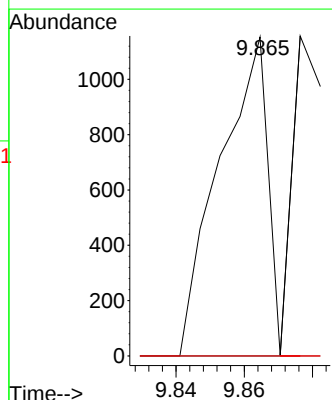
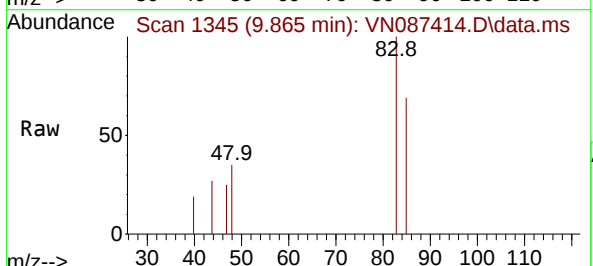
Tgt Ion: 83 Resp: 1130

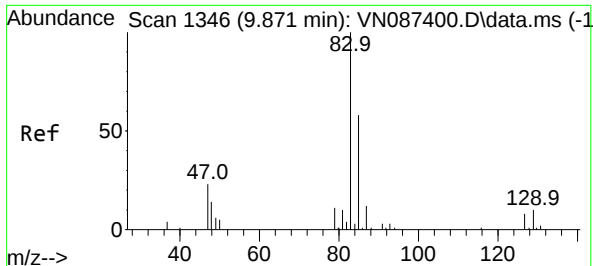
Ion Ratio Lower Upper

83 100

55 0.0 40.9 122.8#

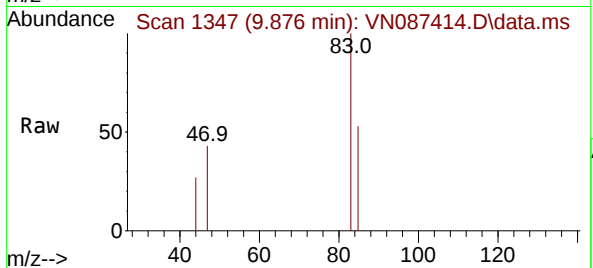
98 0.0 25.6 76.6#



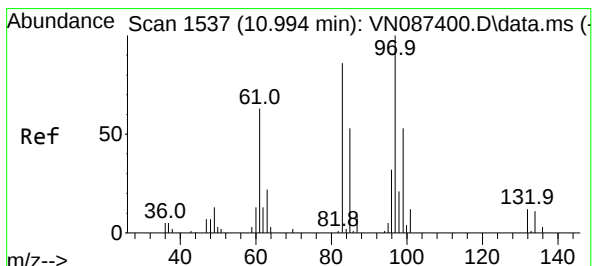
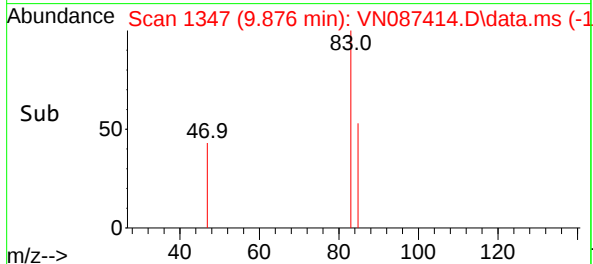
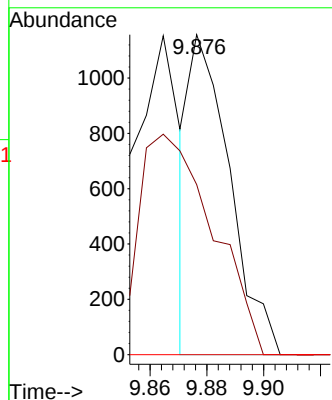


#41
Bromodichloromethane
Concen: 0.470 ug/l
RT: 9.876 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087414.D
Acq: 24 Jul 2025 13:28

Instrument :
MSVOA_N
ClientSampleId :

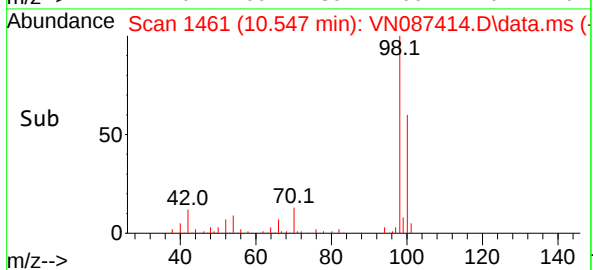
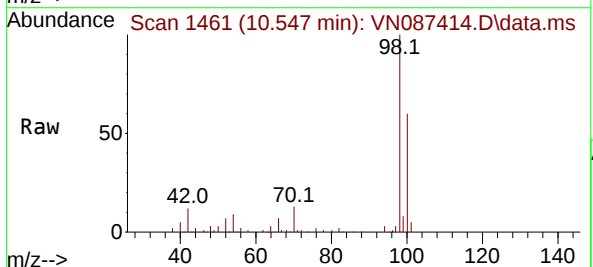
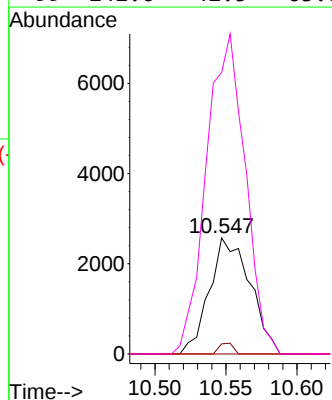


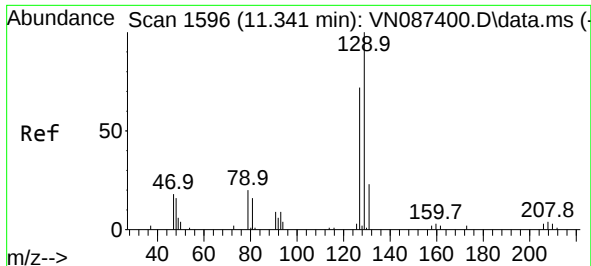
Tgt Ion: 83 Resp: 1130
Ion Ratio Lower Upper
83 100
85 53.2 46.2 69.2
127 0.0 6.1 9.1#



#50
1,1,2-Trichloroethane
Concen: 3.285 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.447 min
Lab File: VN087414.D
Acq: 24 Jul 2025 13:28

Tgt Ion: 97 Resp: 5137
Ion Ratio Lower Upper
97 100
83 8.7 68.9 103.3#
85 0.0 42.2 63.2#
99 242.6 42.5 63.7#

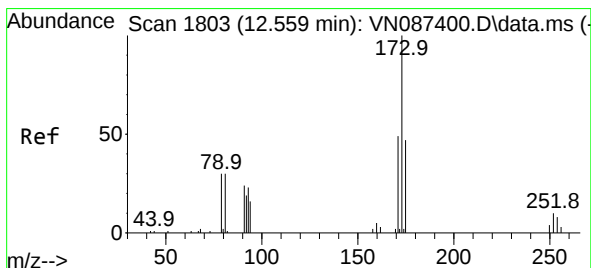
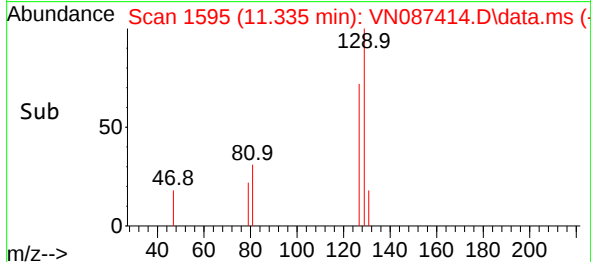
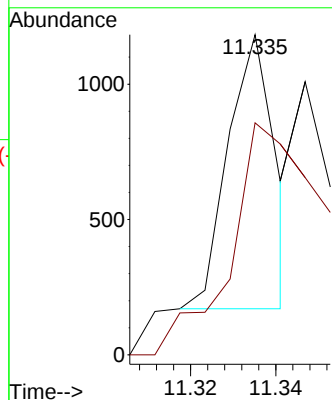
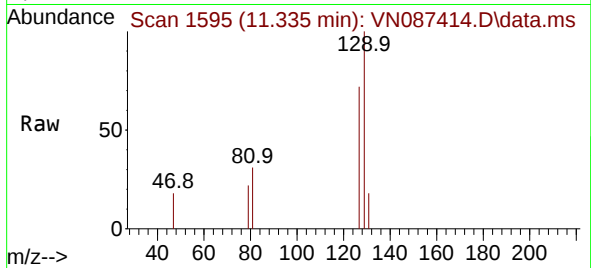




#53
Dibromochloromethane
Concen: 0.427 ug/l
RT: 11.335 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087414.D
Acq: 24 Jul 2025 13:28

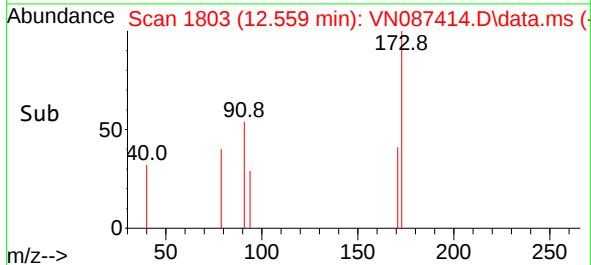
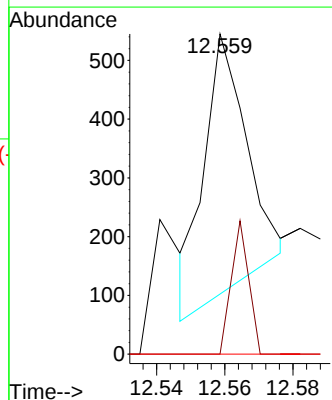
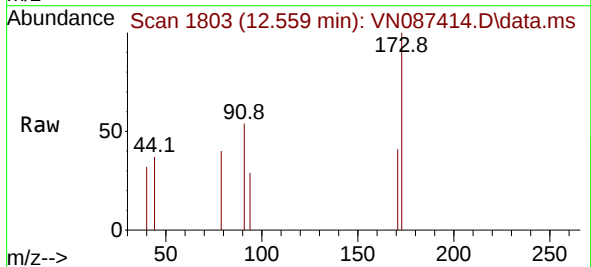
Instrument :
MSVOA_N
ClientSampleId :

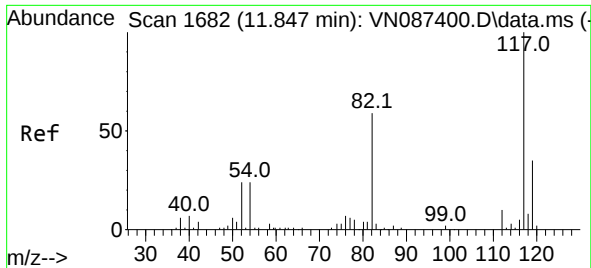
Tgt Ion:129 Resp: 783
Ion Ratio Lower Upper
129 100
127 162.8 38.7 116.1#



#56
Bromoform
Concen: 0.298 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VN087414.D
Acq: 24 Jul 2025 13:28

Tgt Ion:173 Resp: 389
Ion Ratio Lower Upper
173 100
175 0.0 38.4 57.6#
254 0.0 6.7 10.1#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087414.D

Acq: 24 Jul 2025 13:28

Instrument :

MSVOA_N

ClientSampleId :

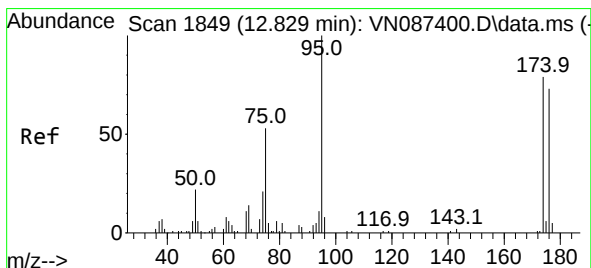
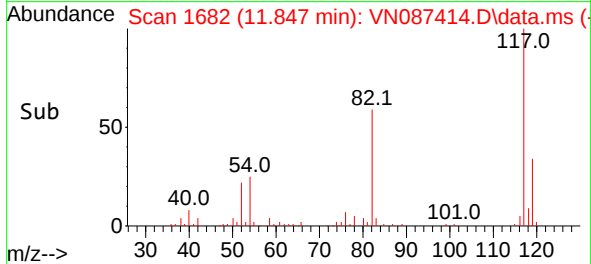
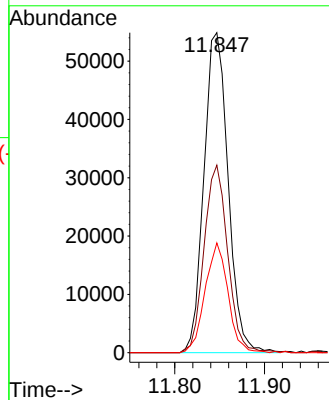
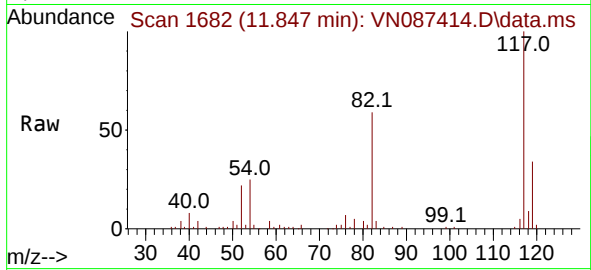
Tgt Ion:117 Resp: 102862

Ion Ratio Lower Upper

117 100

82 57.0 44.1 66.1

119 32.5 25.4 38.2



#60

4-Bromofluorobenzene

Concen: 23.500 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.000 min

Lab File: VN087414.D

Acq: 24 Jul 2025 13:28

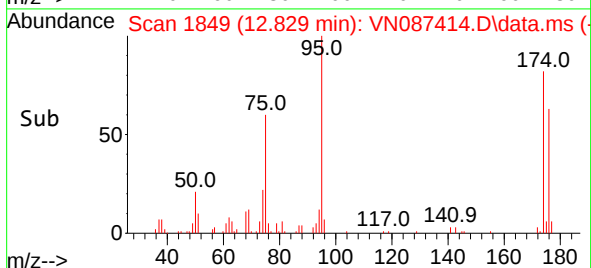
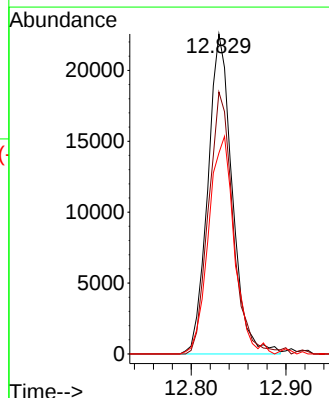
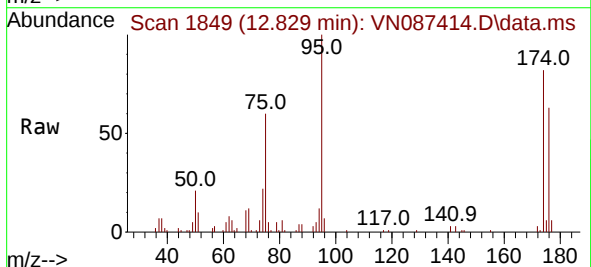
Tgt Ion: 95 Resp: 40328

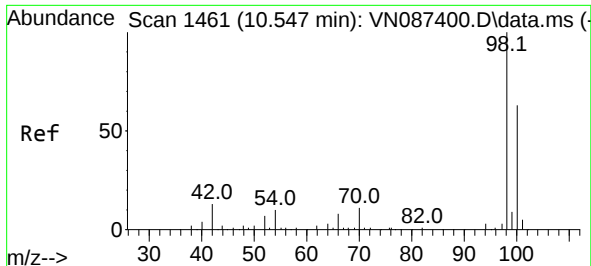
Ion Ratio Lower Upper

95 100

174 81.9 62.1 93.1

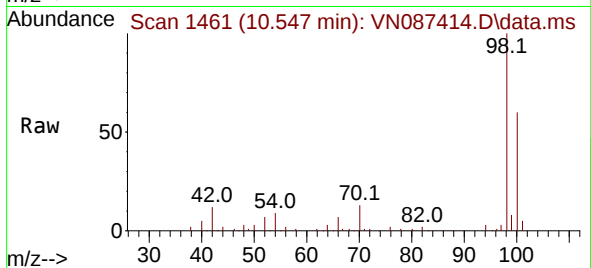
176 70.9 57.9 86.9



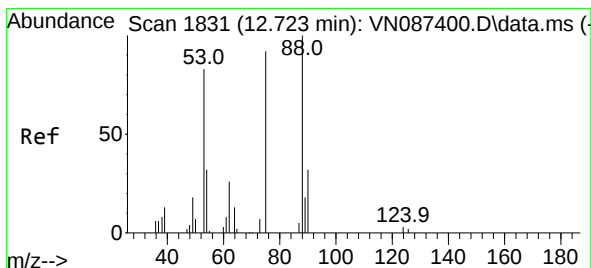
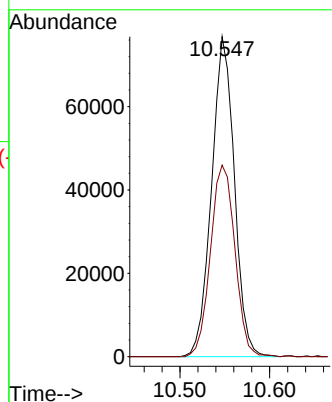
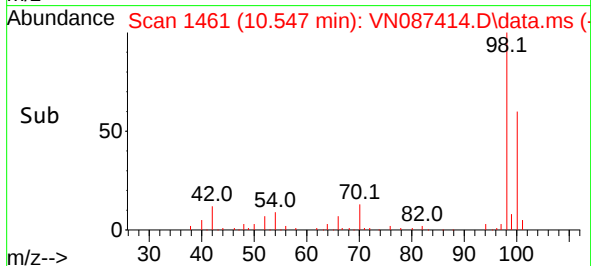


#63
Toluene-d8
Concen: 28.953 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087414.D
Acq: 24 Jul 2025 13:28

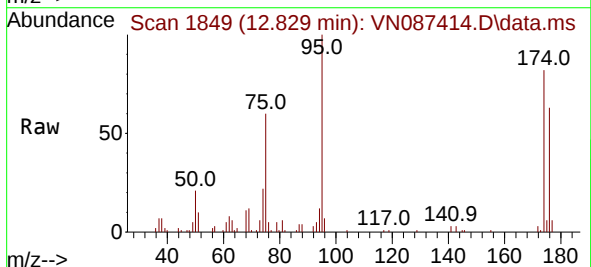
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 98 Resp: 135439
Ion Ratio Lower Upper
98 100
100 64.0 51.1 76.7



#77
t-1,4-Dichloro-2-butene
Concen: 28.451 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.106 min
Lab File: VN087414.D
Acq: 24 Jul 2025 13:28



Tgt Ion: 75 Resp: 23170
Ion Ratio Lower Upper
75 100
53 0.0 44.0 131.8#
89 0.0 17.0 50.9#

