

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
 Data File : VN087874.D
 Acq On : 17 Sep 2025 13:11
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 18 03:10:08 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)

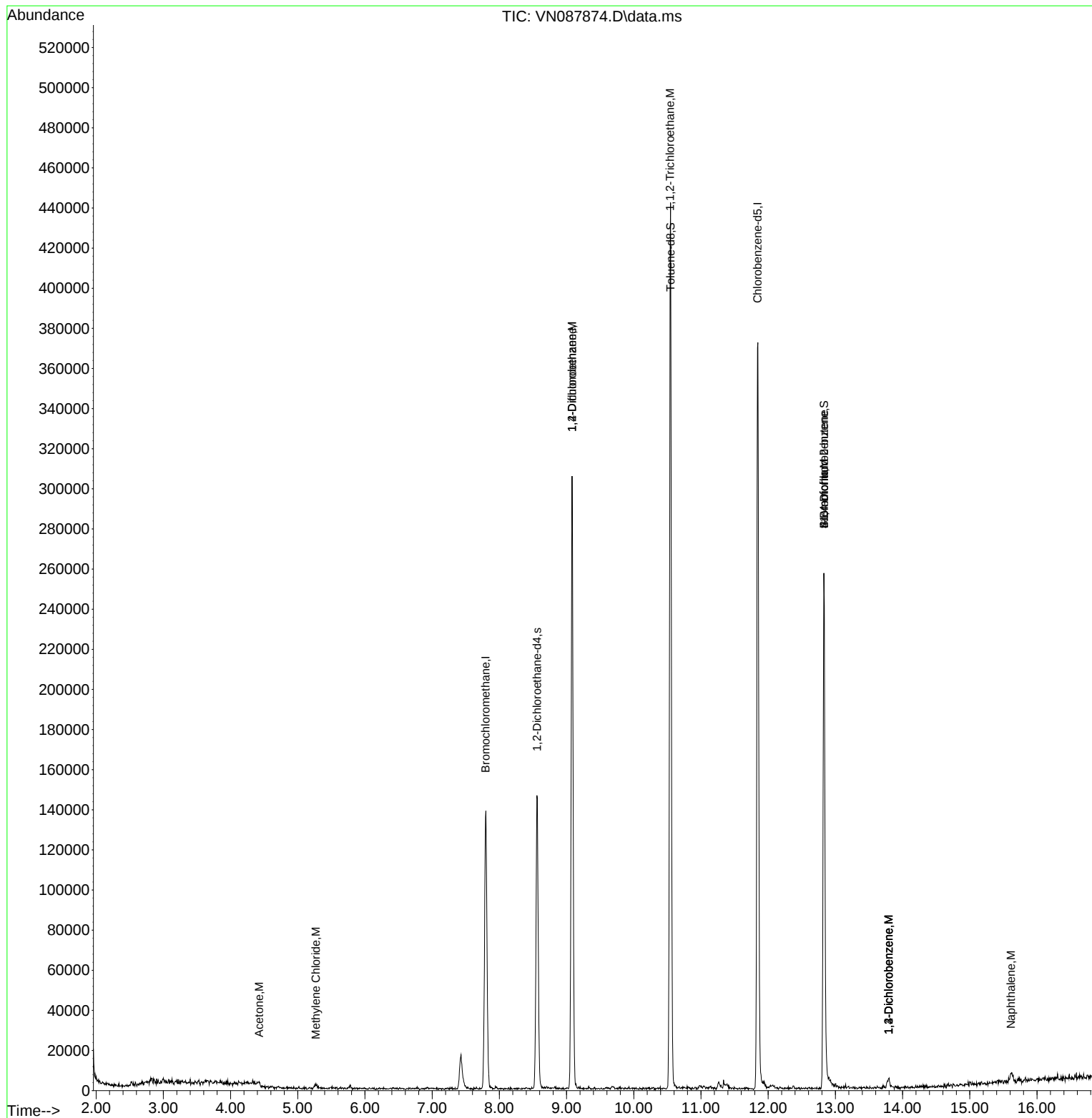
Internal Standards						
1) Bromochloromethane	7.794	128	48321	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	245791	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	219064	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	120535	29.201	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.333%
60) 4-Bromofluorobenzene	12.829	95	94896	26.941	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	89.800%
63) Toluene-d8	10.547	98	296668	29.120	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.067%
Target Compounds						
					Qvalue	
15) Acetone	4.424	58	299	0.495	ug/l #	18
18) Methylene Chloride	5.271	84	1045	0.316	ug/l #	28
36) 1,2-Dichloroethane	9.082	62	9464	1.941	ug/l #	75
50) 1,1,2-Trichloroethane	10.541	97	5129	1.614	ug/l #	1
56) Bromoform	12.829	173	696	0.299	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.829	75	52604	33.844	ug/l #	14
83) 1,3-Dichlorobenzene	13.794	146	1339	0.218	ug/l	87
84) 1,4-Dichlorobenzene	13.794	146	1339	0.217	ug/l	87
87) 1,2-Dichlorobenzene	13.794	146	1339	0.231	ug/l	92
91) Naphthalene	15.611	128	3245	0.267	ug/l #	91

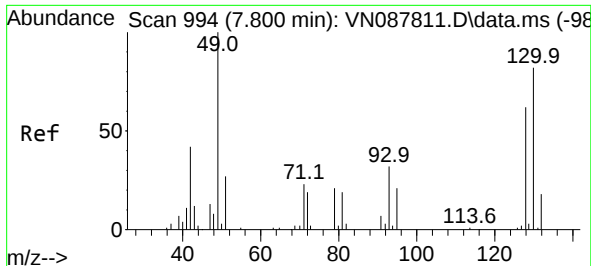
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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Quant Time: Sep 18 03:10:08 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

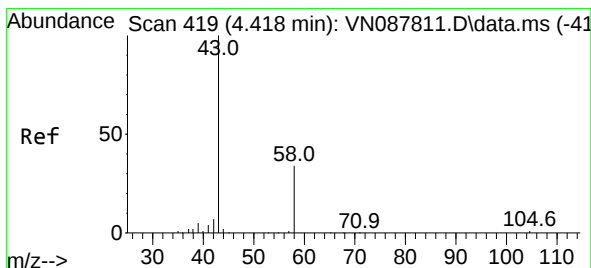
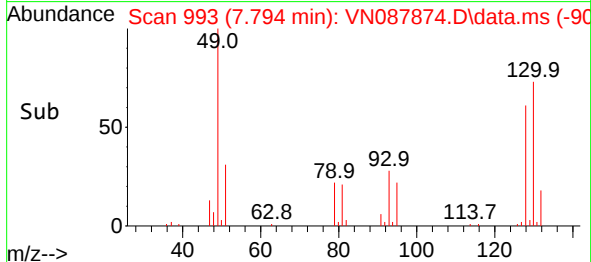
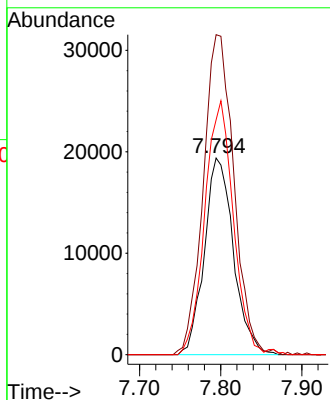
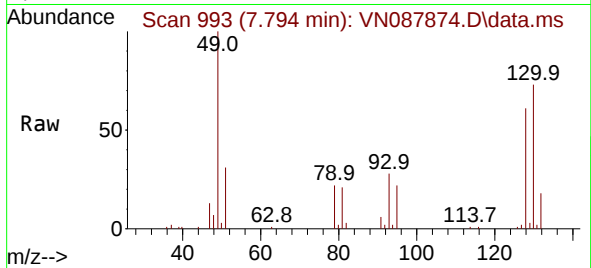




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087874.D
Acq: 17 Sep 2025 13:11

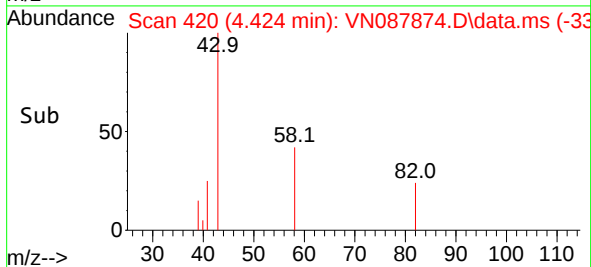
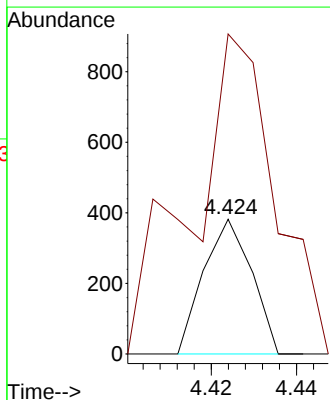
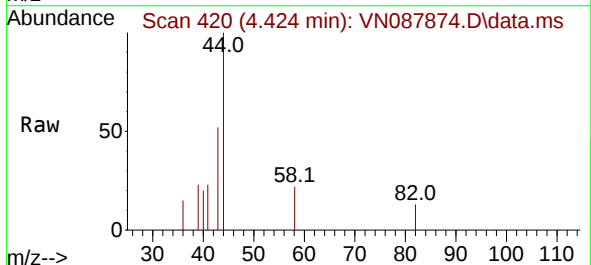
Instrument :
MSVOA_N
ClientSampleId :

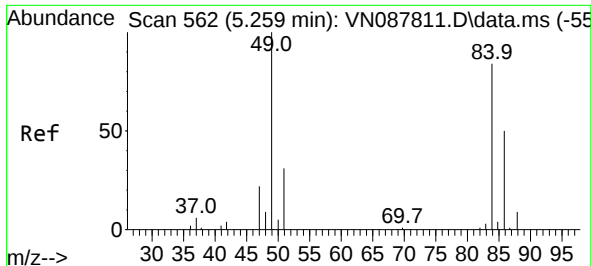
Tgt Ion:128 Resp: 48321
Ion Ratio Lower Upper
128 100
49 170.3 0.0 464.3
130 126.5 0.0 300.5



#15
Acetone
Concen: 0.495 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN087874.D
Acq: 17 Sep 2025 13:11

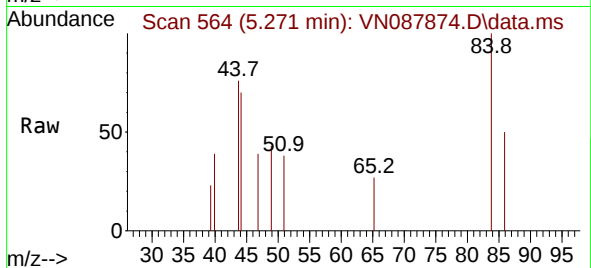
Tgt Ion: 58 Resp: 299
Ion Ratio Lower Upper
58 100
43 148.2 250.6 376.0#



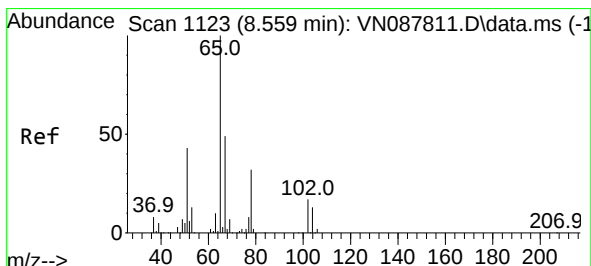
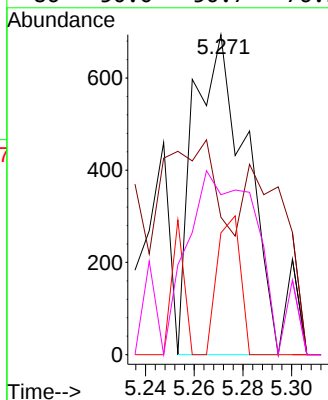
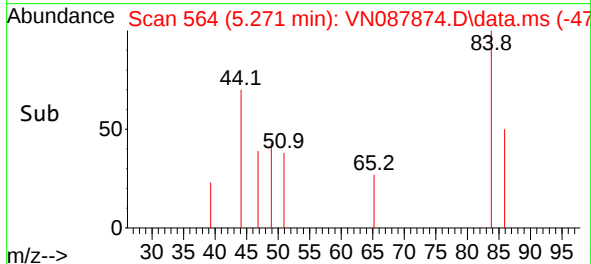


#18
Methylene Chloride
Concen: 0.316 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087874.D
Acq: 17 Sep 2025 13:11

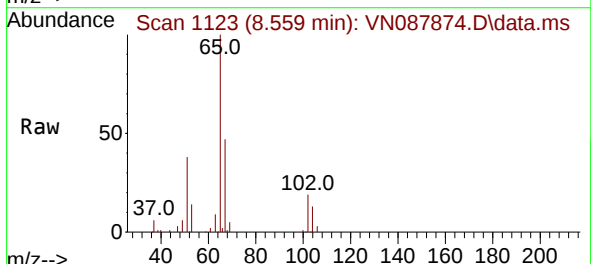
Instrument :
MSVOA_N
ClientSampleId :



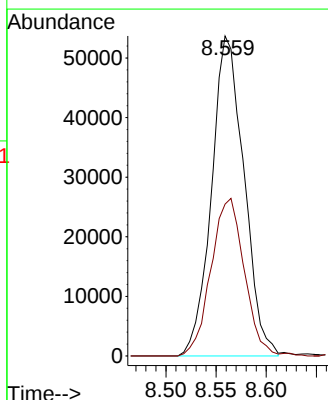
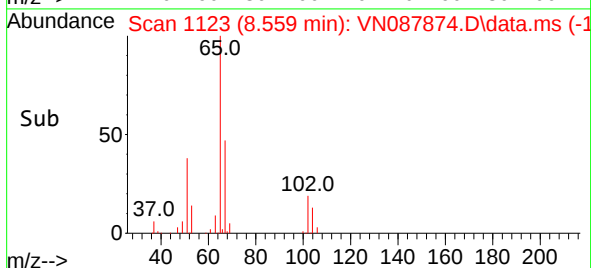
Tgt Ion: 84 Resp: 1045
Ion Ratio Lower Upper
84 100
49 0.0 114.1 171.1#
51 38.0 30.2 45.4
86 50.0 50.7 76.1#

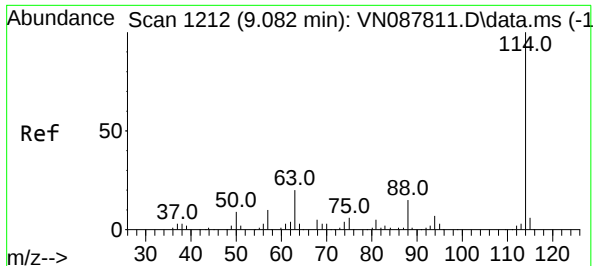


#27
1,2-Dichloroethane-d4
Concen: 29.201 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087874.D
Acq: 17 Sep 2025 13:11



Tgt Ion: 65 Resp: 120535
Ion Ratio Lower Upper
65 100
67 50.4 39.6 59.4





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087874.D

Acq: 17 Sep 2025 13:11

Instrument :

MSVOA_N

ClientSampleId :

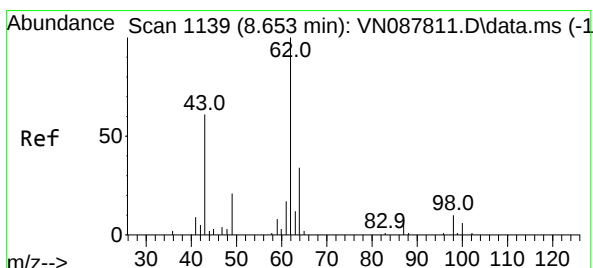
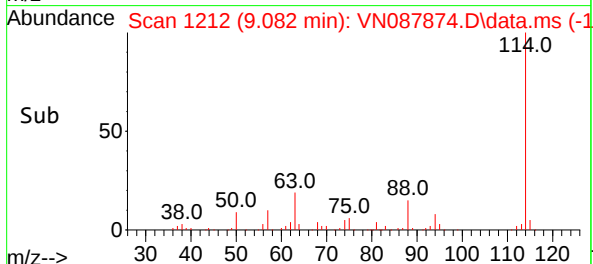
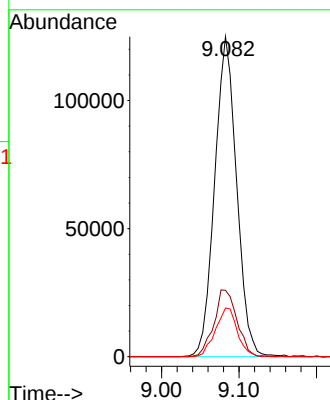
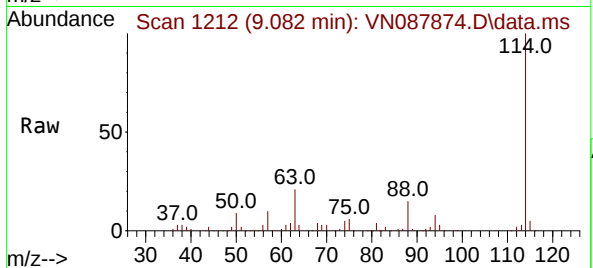
Tgt Ion:114 Resp: 245791

Ion Ratio Lower Upper

114 100

63 21.9 18.3 27.5

88 15.2 12.4 18.6



#36

1,2-Dichloroethane

Concen: 1.941 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.429 min

Lab File: VN087874.D

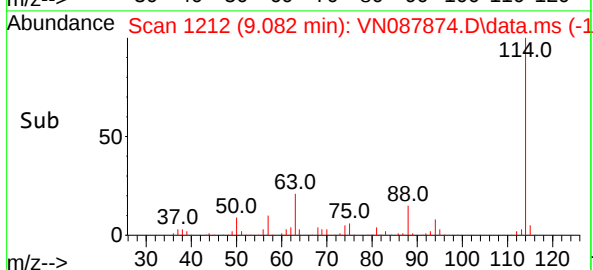
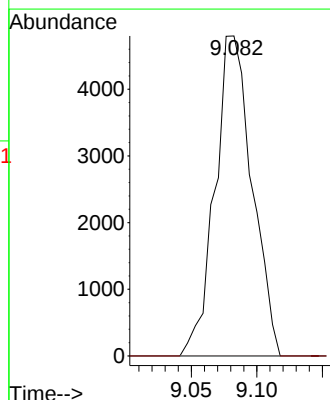
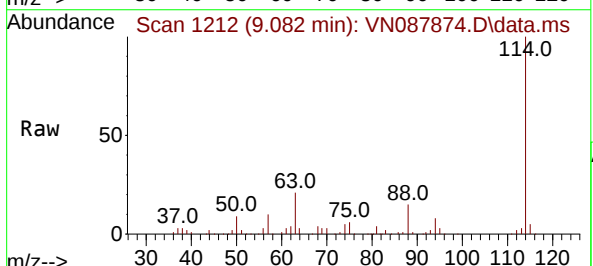
Acq: 17 Sep 2025 13:11

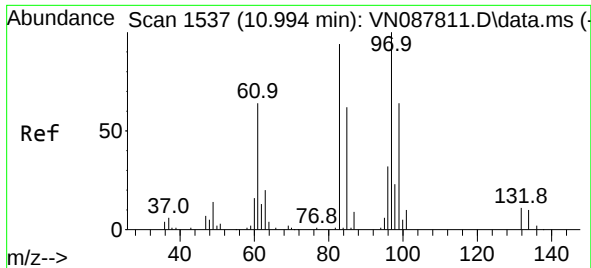
Tgt Ion: 62 Resp: 9464

Ion Ratio Lower Upper

62 100

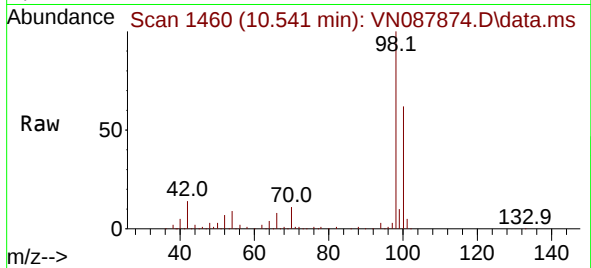
98 0.0 7.2 10.8#



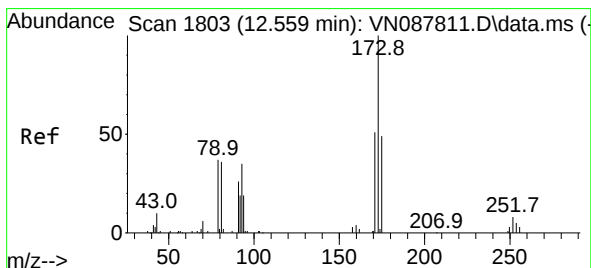
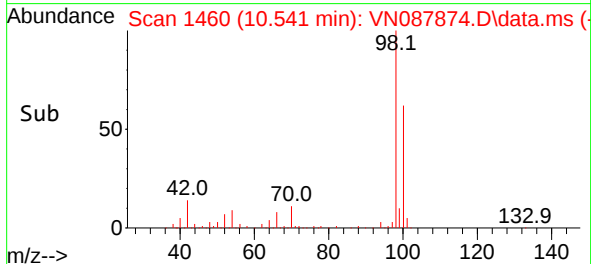
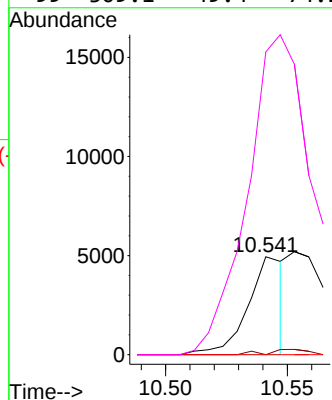


#50
1,1,2-Trichloroethane
Concen: 1.614 ug/l
RT: 10.541 min Scan# 14
Delta R.T. -0.453 min
Lab File: VN087874.D
Acq: 17 Sep 2025 13:11

Instrument :
MSVOA_N
ClientSampleId :

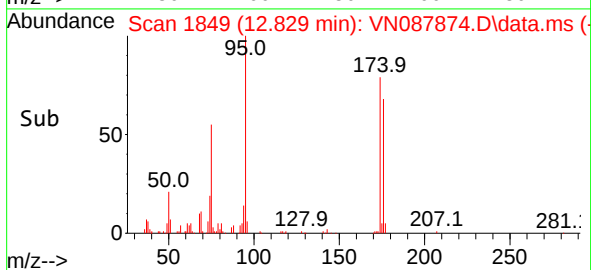
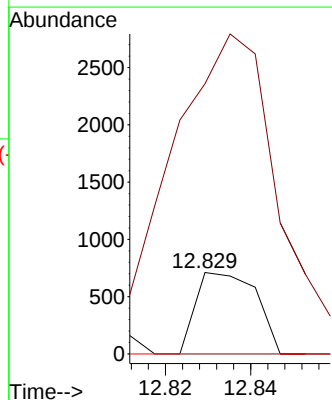
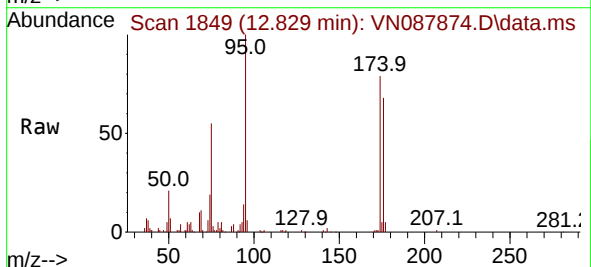


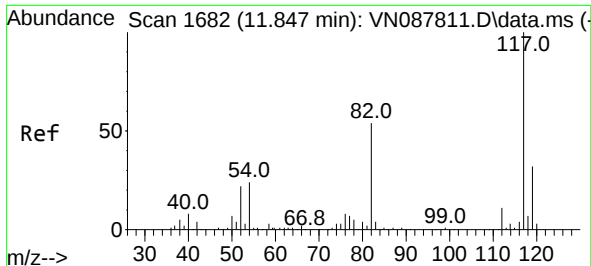
Tgt Ion: 97 Resp: 5129
Ion Ratio Lower Upper
97 100
83 0.0 70.5 105.7#
85 0.0 46.3 69.5#
99 309.1 49.4 74.2#



#56
Bromoform
Concen: 0.299 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.270 min
Lab File: VN087874.D
Acq: 17 Sep 2025 13:11

Tgt Ion:173 Resp: 696
Ion Ratio Lower Upper
173 100
175 755.3 39.8 59.6#
254 0.0 6.2 9.4#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.841 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087874.D

Acq: 17 Sep 2025 13:11

Instrument :

MSVOA_N

ClientSampleId :

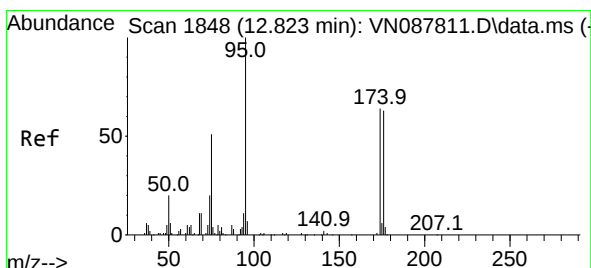
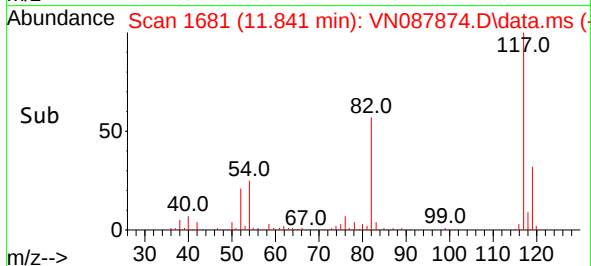
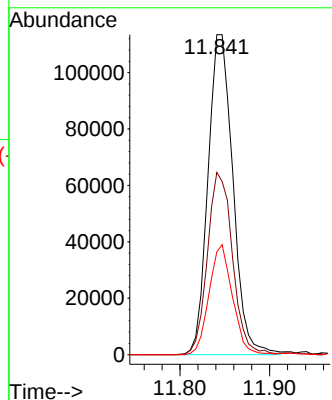
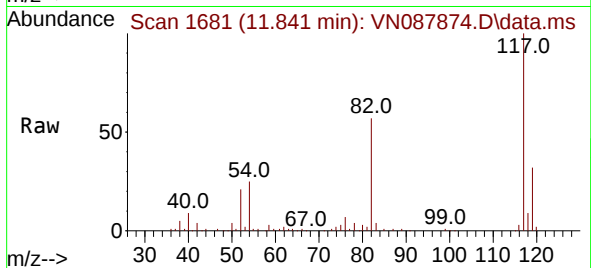
Tgt Ion:117 Resp: 219064

Ion Ratio Lower Upper

117 100

82 57.3 45.9 68.9

119 32.2 25.3 37.9



#60

4-Bromofluorobenzene

Concen: 26.941 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.000 min

Lab File: VN087874.D

Acq: 17 Sep 2025 13:11

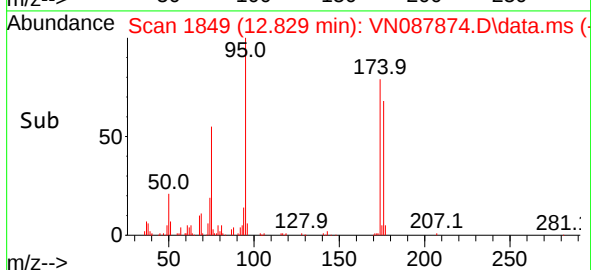
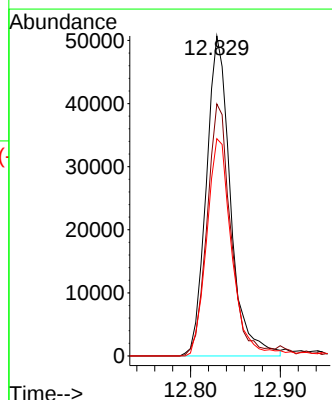
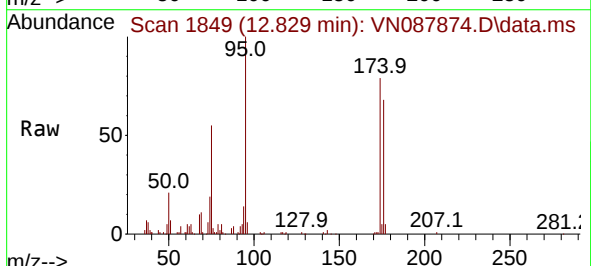
Tgt Ion: 95 Resp: 94896

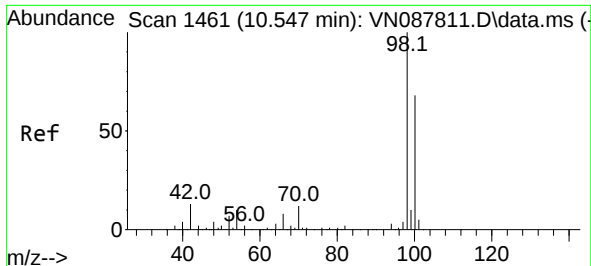
Ion Ratio Lower Upper

95 100

174 77.0 55.4 83.0

176 70.8 51.5 77.3

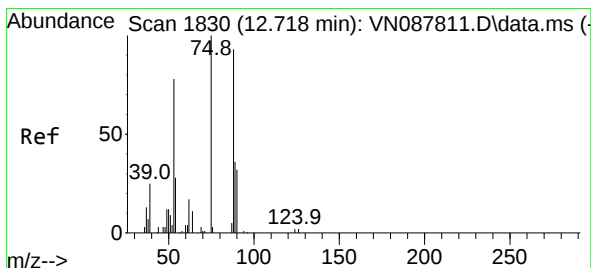
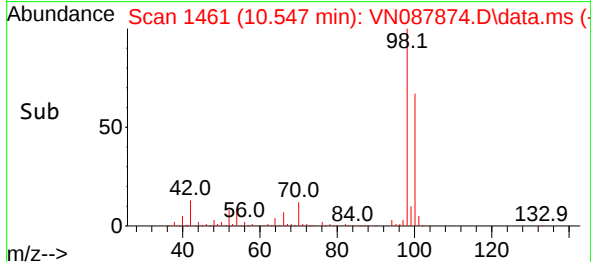
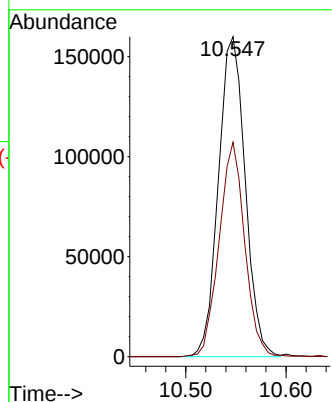
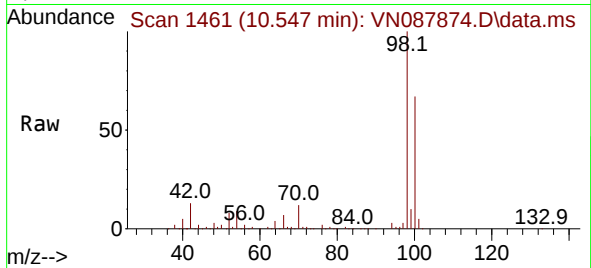




#63
Toluene-d8
Concen: 29.120 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087874.D
Acq: 17 Sep 2025 13:11

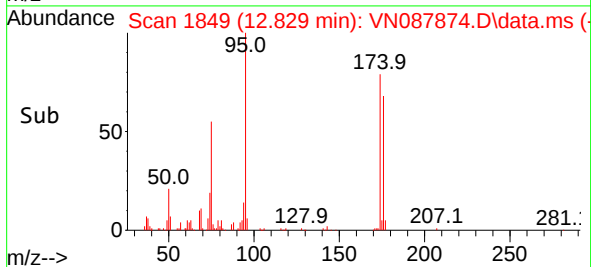
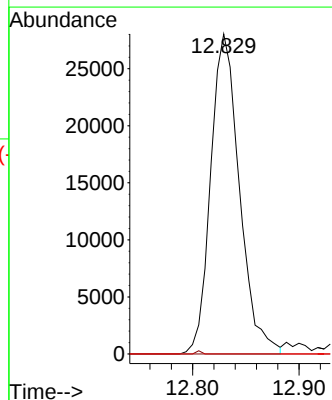
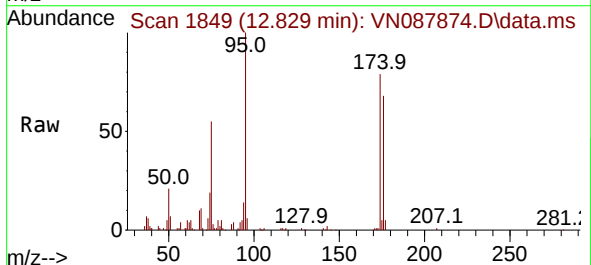
Instrument :
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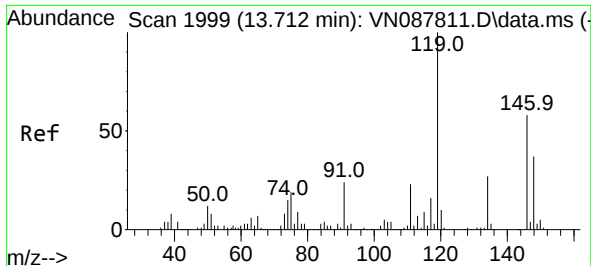
Tgt Ion: 98 Resp: 296668
Ion Ratio Lower Upper
98 100
100 64.0 50.6 76.0



#77
t-1,4-Dichloro-2-butene
Concen: 33.844 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087874.D
Acq: 17 Sep 2025 13:11

Tgt Ion: 75 Resp: 52604
Ion Ratio Lower Upper
75 100
53 0.0 45.3 135.9#
89 0.0 18.8 56.3#

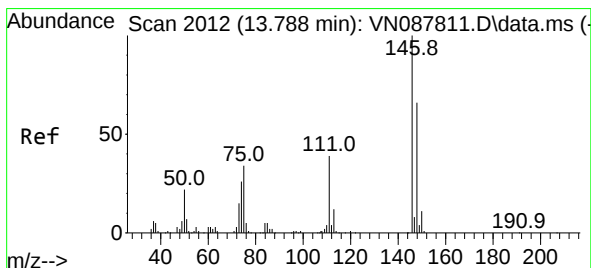
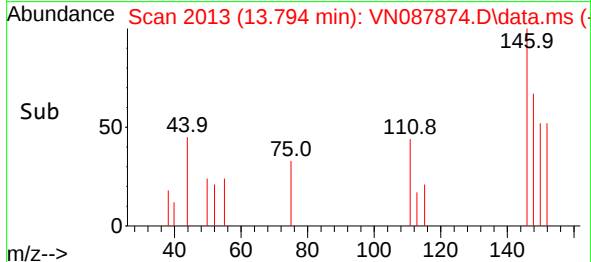
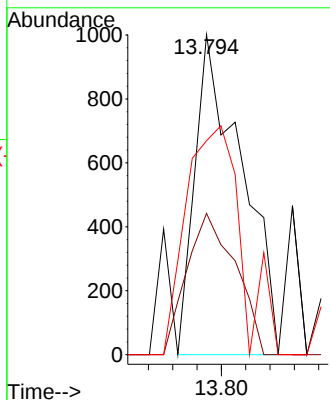
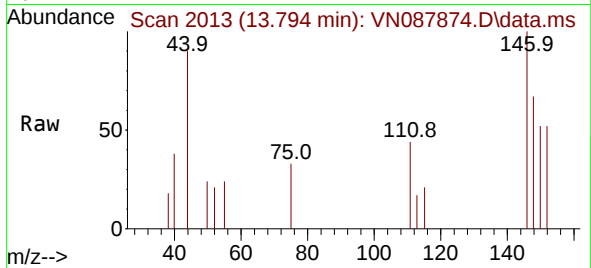




#83
 1,3-Dichlorobenzene
 Concen: 0.218 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.082 min
 Lab File: VN087874.D
 Acq: 17 Sep 2025 13:11

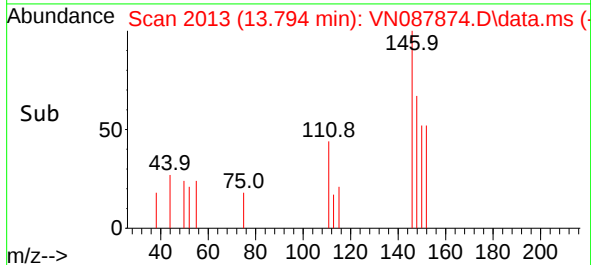
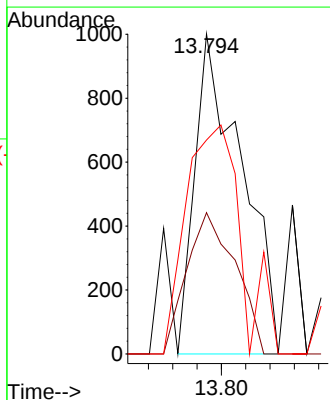
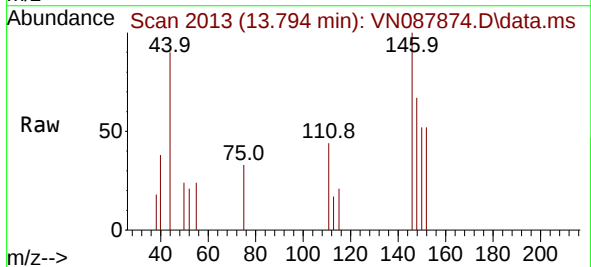
Instrument :
 MSVOA_N
 ClientSampleId :

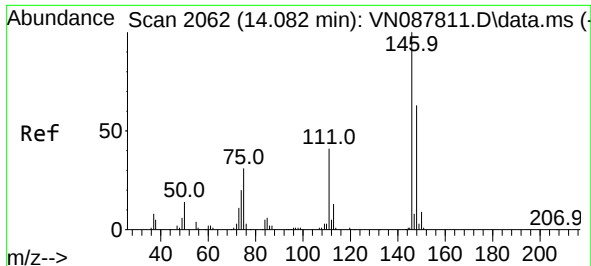
Tgt Ion:146 Resp: 1339
 Ion Ratio Lower Upper
 146 100
 111 46.0 21.1 63.4
 148 75.3 31.0 93.0



#84
 1,4-Dichlorobenzene
 Concen: 0.217 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.006 min
 Lab File: VN087874.D
 Acq: 17 Sep 2025 13:11

Tgt Ion:146 Resp: 1339
 Ion Ratio Lower Upper
 146 100
 111 46.0 20.2 60.5
 148 75.3 31.5 94.5





#87

1,2-Dichlorobenzene

Concen: 0.231 ug/l

RT: 13.794 min Scan# 2062

Delta R.T. -0.288 min

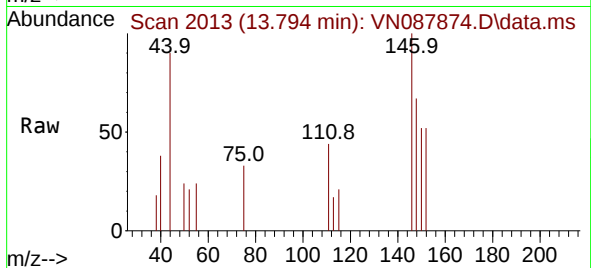
Lab File: VN087874.D

Acq: 17 Sep 2025 13:11

Instrument :

MSVOA_N

ClientSampleId :



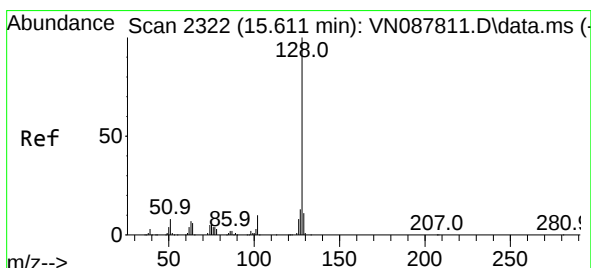
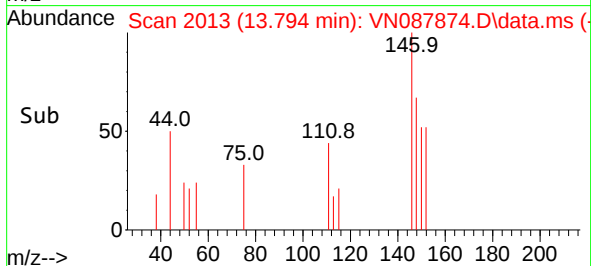
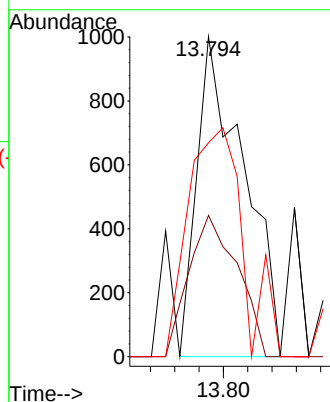
Tgt Ion:146 Resp: 1339

Ion Ratio Lower Upper

146 100

111 46.0 21.5 64.5

148 75.3 33.4 100.1



#91

Naphthalene

Concen: 0.267 ug/l

RT: 15.611 min Scan# 2322

Delta R.T. -0.000 min

Lab File: VN087874.D

Acq: 17 Sep 2025 13:11

Tgt Ion:128 Resp: 3245

Ion Ratio Lower Upper

128 100

127 7.6 10.2 15.4#

129 8.6 8.3 12.5

