

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
 Data File : VN087321.D
 Acq On : 10 Jul 2025 13:27
 Operator : JC\MD
 Sample : Q2554-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 11 01:10:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

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

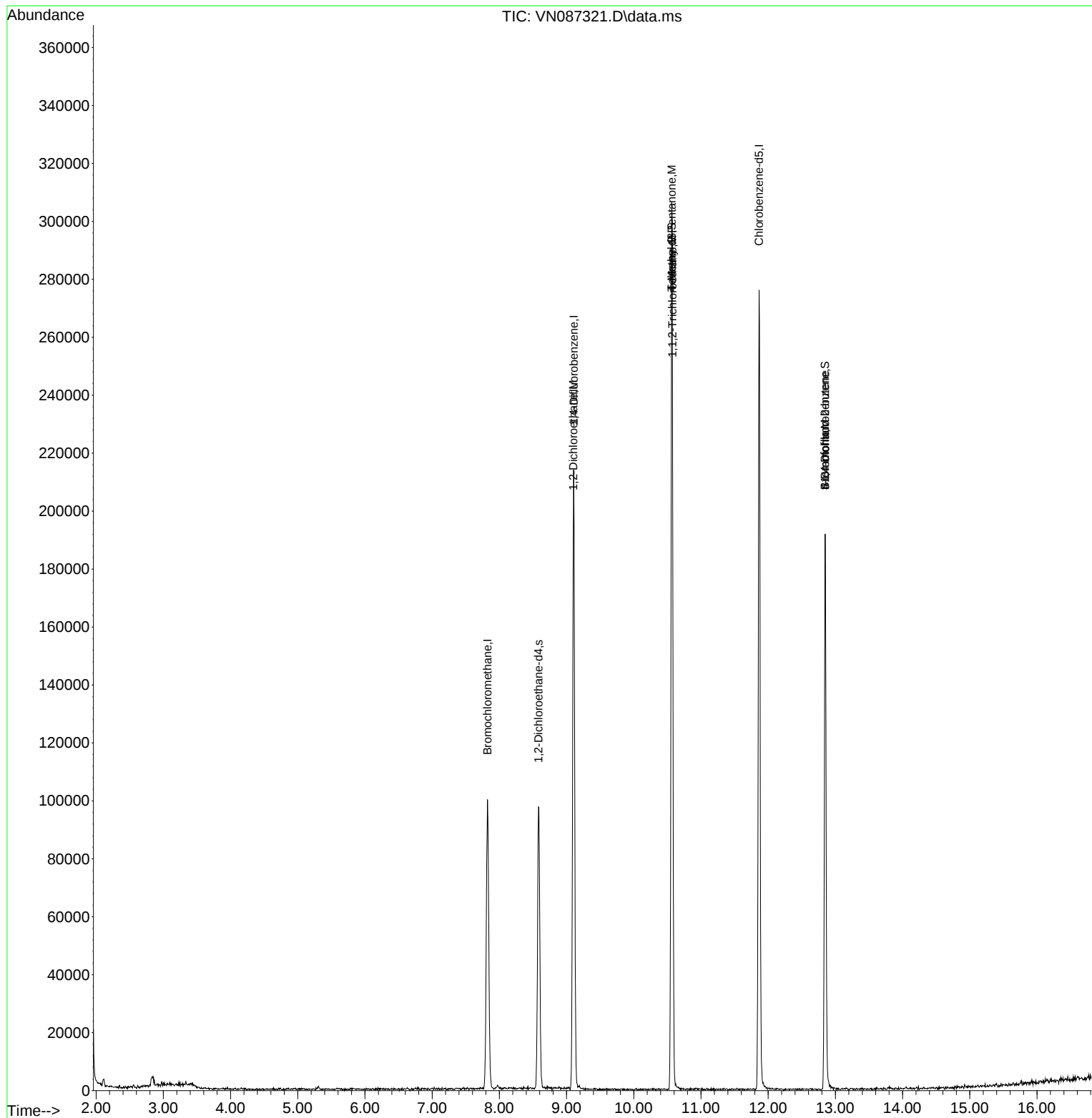
Internal Standards						
1) Bromochloromethane	7.824	128	38034	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	189173	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	172316	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	83890	29.274	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.567%
60) 4-Bromofluorobenzene	12.847	95	70569	26.539	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	88.467%
63) Toluene-d8	10.565	98	220382	28.484	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.933%
Target Compounds						
					Qvalue	
36) 1,2-Dichloroethane	9.100	62	5964	1.976	ug/l #	75
50) 1,1,2-Trichloroethane	10.576	97	8149	3.598	ug/l #	1
56) Bromoform	12.847	173	703	0.430	ug/l #	1
58) 4-Methyl-2-Pentanone	10.565	43	804	0.232	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.847	75	36784	27.545	ug/l #	13

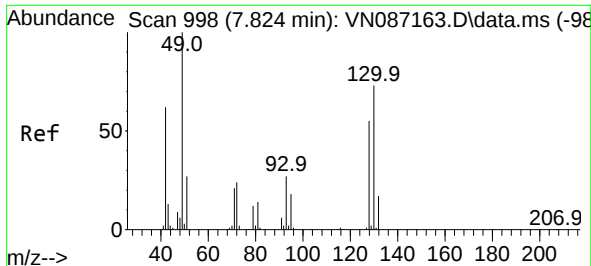
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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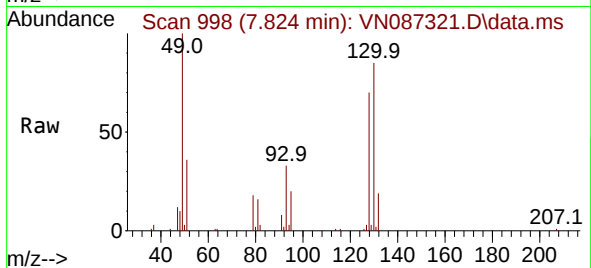
Quant Time: Jul 11 01:10:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 25 10:49:56 2025
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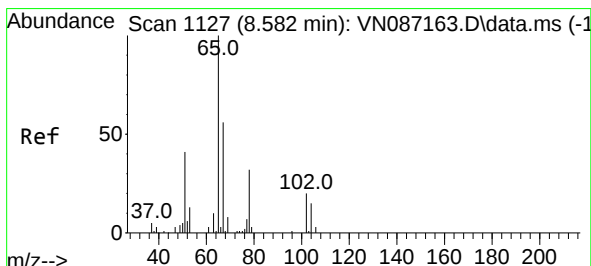
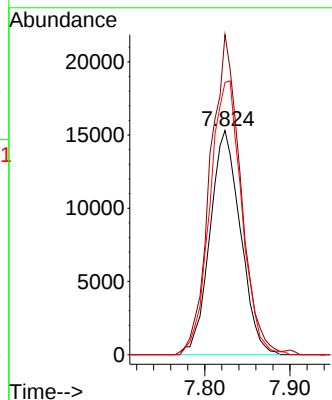
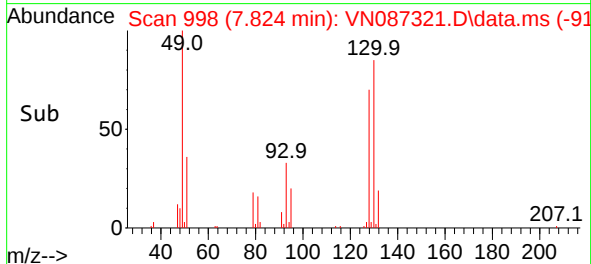


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087321.D
Acq: 10 Jul 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :

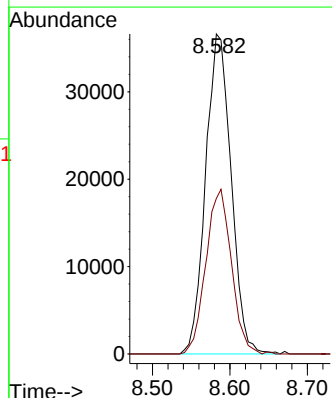
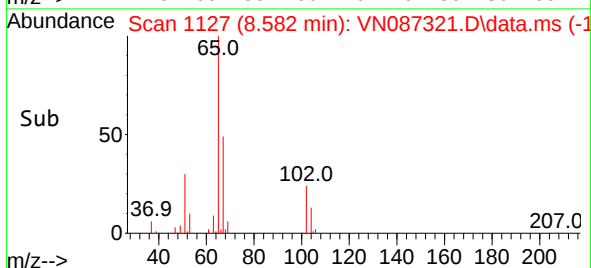
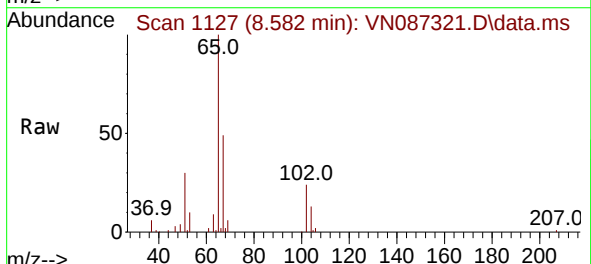


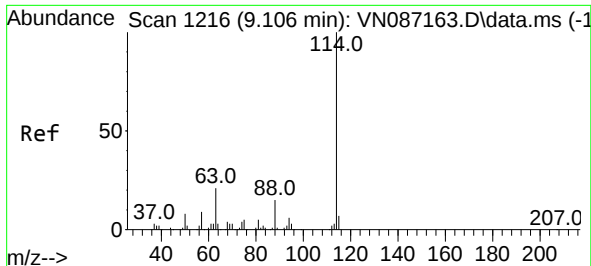
Tgt Ion:128 Resp: 38034
Ion Ratio Lower Upper
128 100
49 141.9 0.0 450.5
130 127.6 0.0 320.7



#27
1,2-Dichloroethane-d4
Concen: 29.274 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN087321.D
Acq: 10 Jul 2025 13:27

Tgt Ion: 65 Resp: 83890
Ion Ratio Lower Upper
65 100
67 51.5 41.9 62.9





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087321.D

Acq: 10 Jul 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

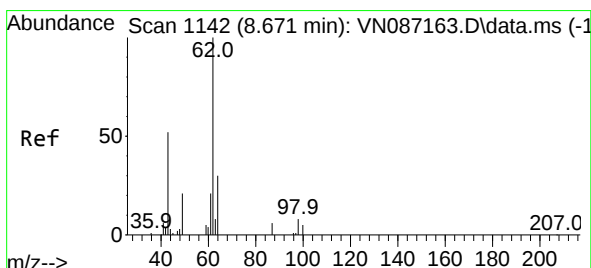
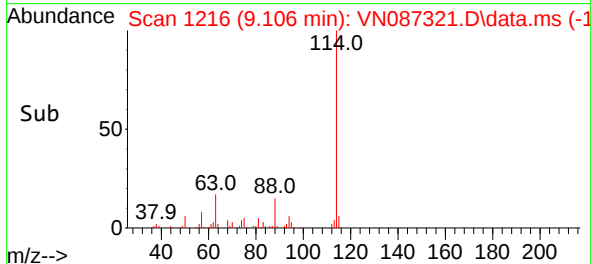
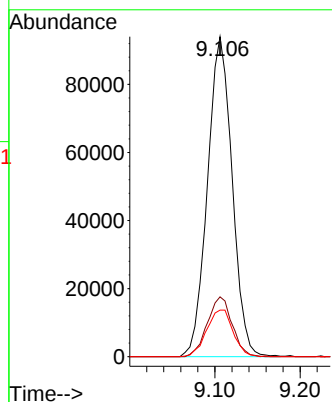
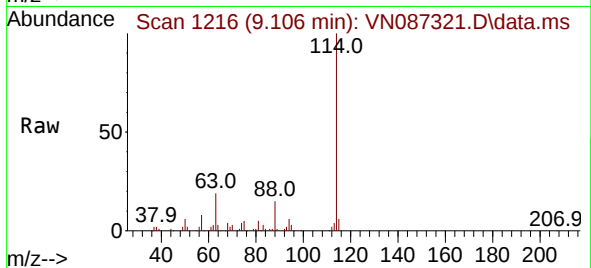
Tgt Ion:114 Resp: 189173

Ion Ratio Lower Upper

114 100

63 18.8 17.0 25.4

88 15.6 12.6 19.0



#36

1,2-Dichloroethane

Concen: 1.976 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.429 min

Lab File: VN087321.D

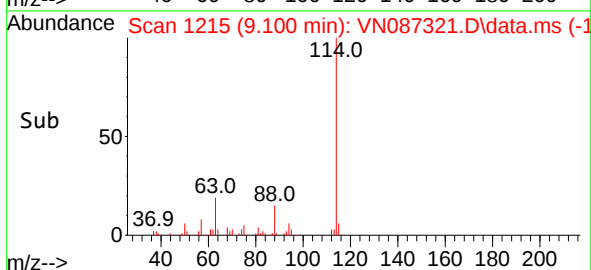
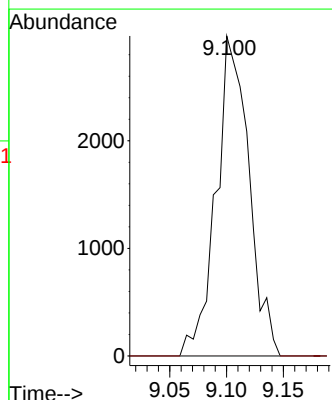
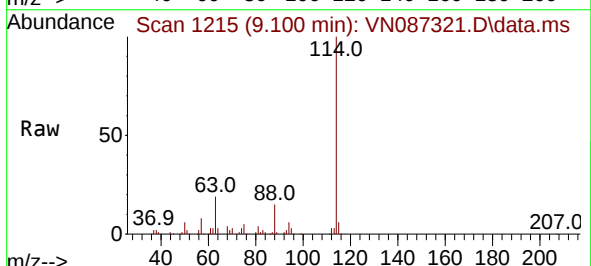
Acq: 10 Jul 2025 13:27

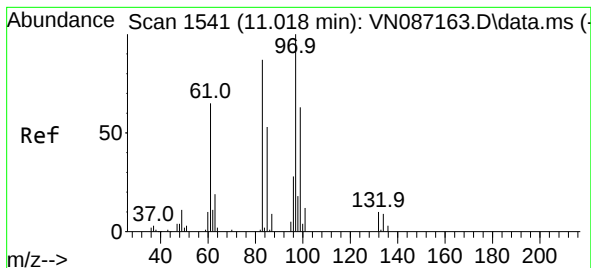
Tgt Ion: 62 Resp: 5964

Ion Ratio Lower Upper

62 100

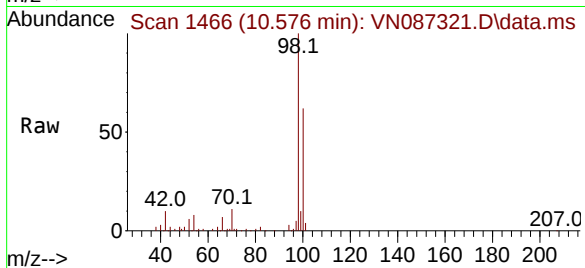
98 0.0 7.2 10.8#



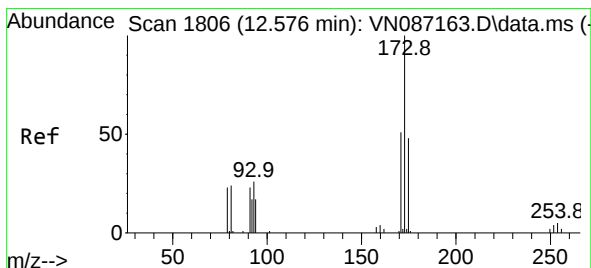
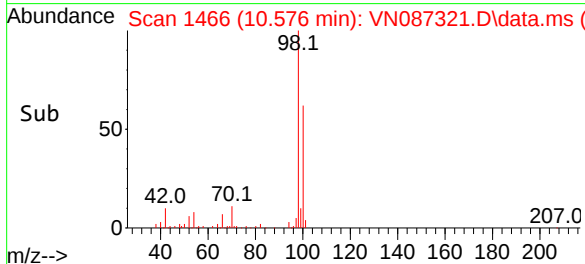
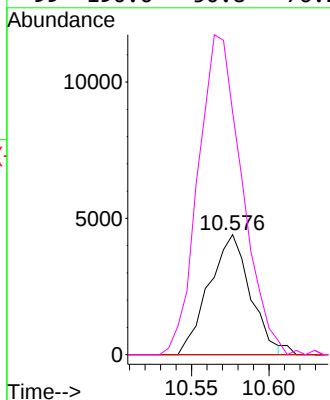


#50
1,1,2-Trichloroethane
Concen: 3.598 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. -0.441 min
Lab File: VN087321.D
Acq: 10 Jul 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :

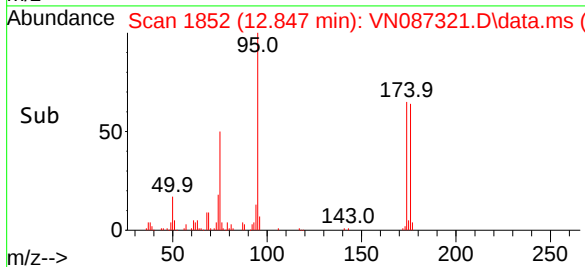
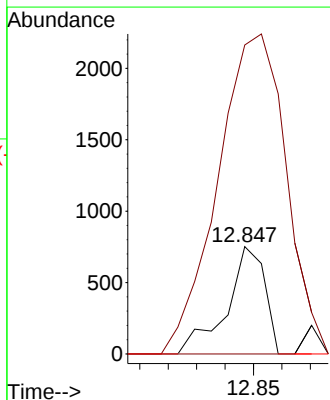
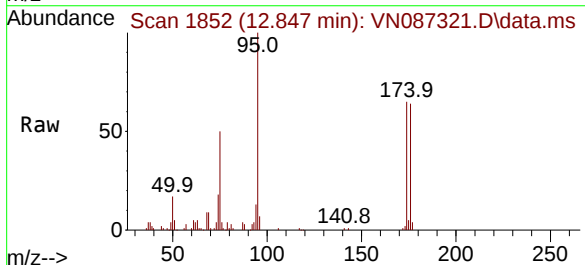


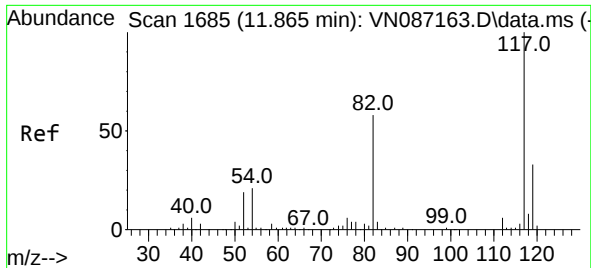
Tgt Ion: 97 Resp: 8149
Ion Ratio Lower Upper
97 100
83 0.0 69.6 104.4#
85 0.0 42.0 63.0#
99 190.6 50.8 76.2#



#56
Bromoform
Concen: 0.430 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN087321.D
Acq: 10 Jul 2025 13:27

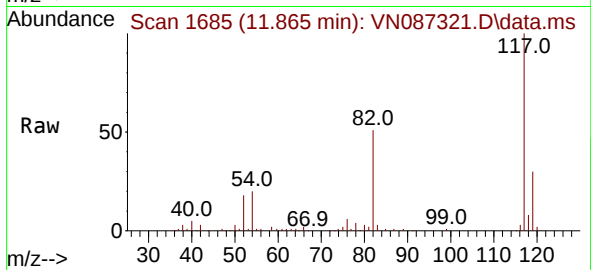
Tgt Ion:173 Resp: 703
Ion Ratio Lower Upper
173 100
175 532.1 38.7 58.1#
254 0.0 4.2 6.4#



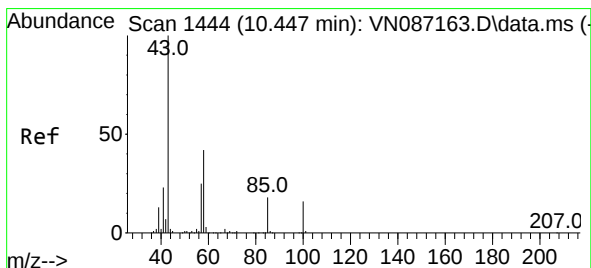
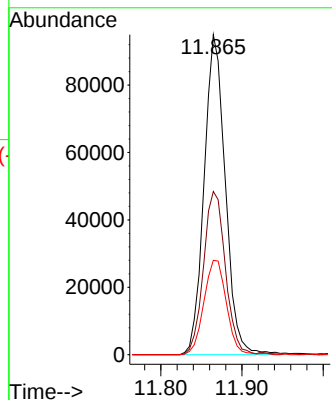
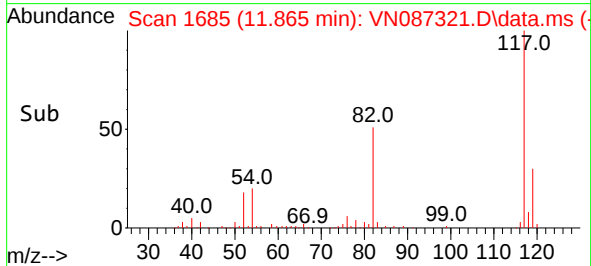


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN087321.D
Acq: 10 Jul 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :

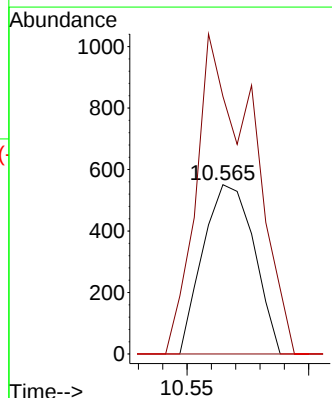
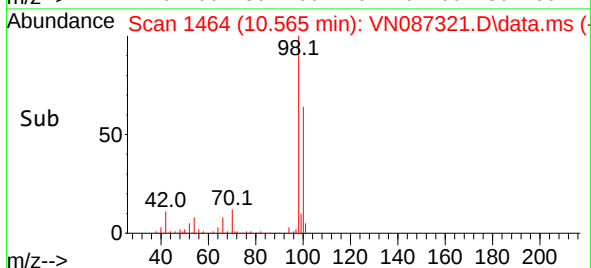
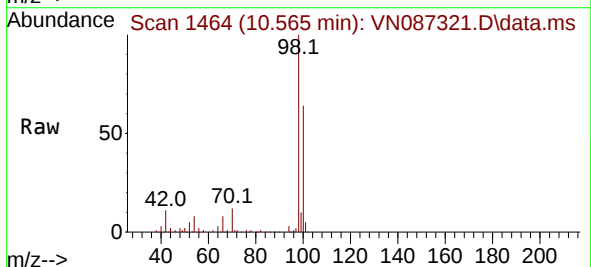


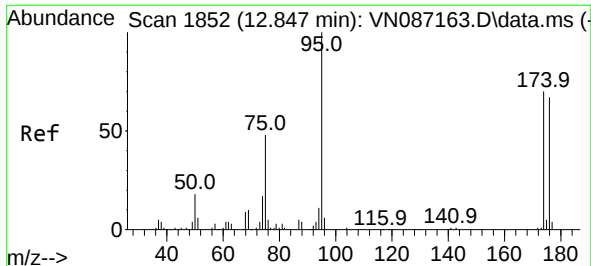
Tgt Ion:117 Resp: 172316
Ion Ratio Lower Upper
117 100
82 52.5 45.4 68.2
119 31.1 26.2 39.4



#58
4-Methyl-2-Pentanone
Concen: 0.232 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.118 min
Lab File: VN087321.D
Acq: 10 Jul 2025 13:27

Tgt Ion: 43 Resp: 804
Ion Ratio Lower Upper
43 100
58 140.2 32.6 49.0#
85 0.0 14.6 22.0#

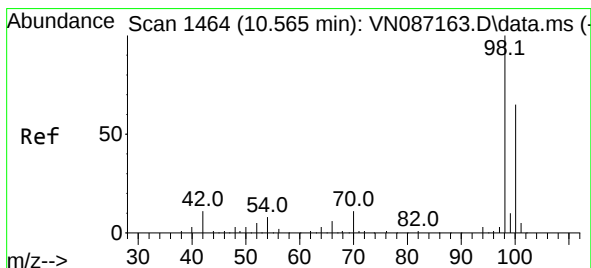
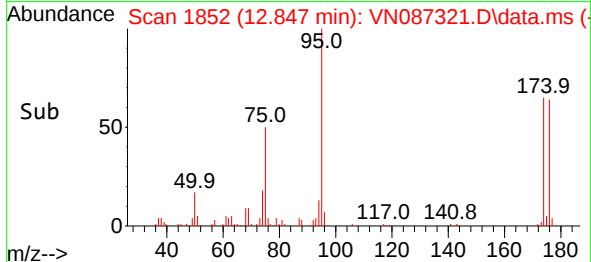
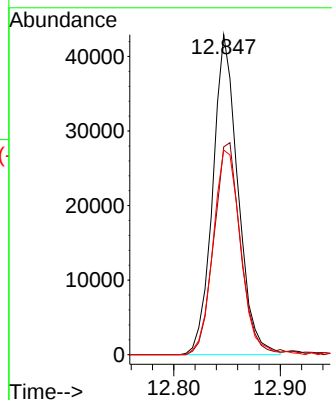
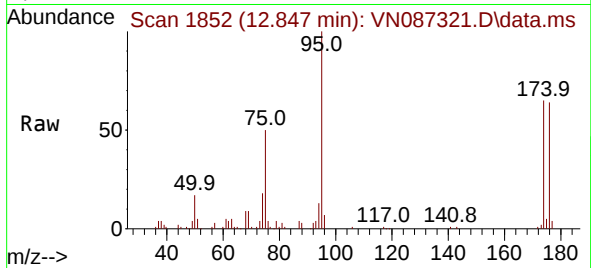




#60
4-Bromofluorobenzene
Concen: 26.539 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087321.D
Acq: 10 Jul 2025 13:27

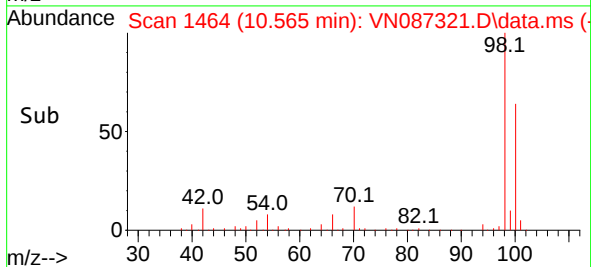
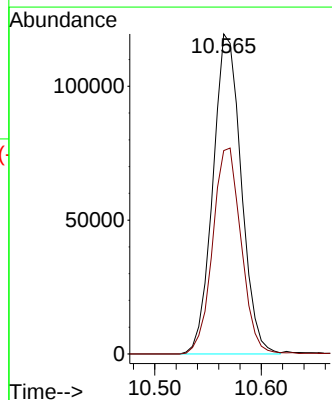
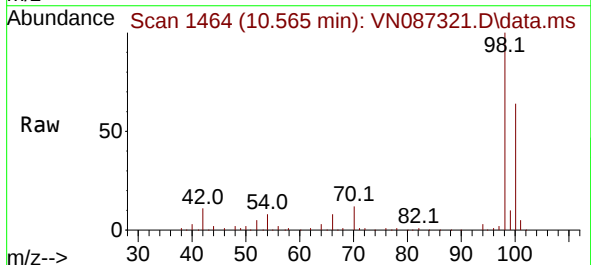
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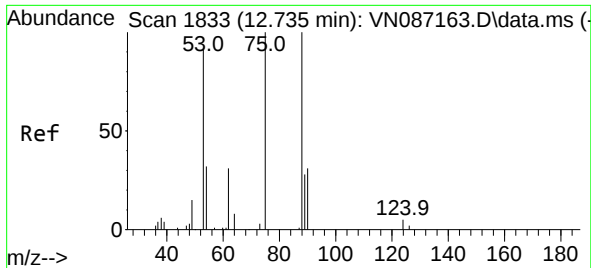
Tgt Ion: 95 Resp: 70569
Ion Ratio Lower Upper
95 100
174 69.7 54.5 81.7
176 70.0 51.9 77.9



#63
Toluene-d8
Concen: 28.484 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN087321.D
Acq: 10 Jul 2025 13:27

Tgt Ion: 98 Resp: 220382
Ion Ratio Lower Upper
98 100
100 64.7 52.5 78.7





#77

t-1,4-Dichloro-2-butene

Concen: 27.545 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

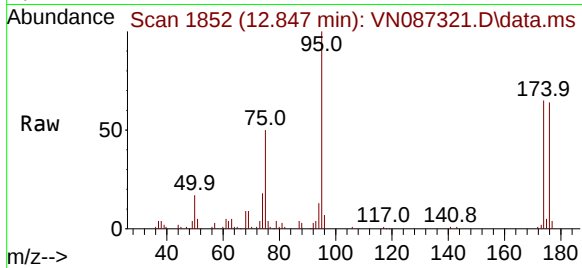
Lab File: VN087321.D

Acq: 10 Jul 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 75 Resp: 36784

Ion Ratio Lower Upper

75 100

53 0.0 45.9 137.6#

89 0.0 22.3 66.9#

