

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071025\
 Data File : VN087320.D
 Acq On : 10 Jul 2025 13:06
 Operator : JC\MD
 Sample : Q2554-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 11 01:09:41 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)

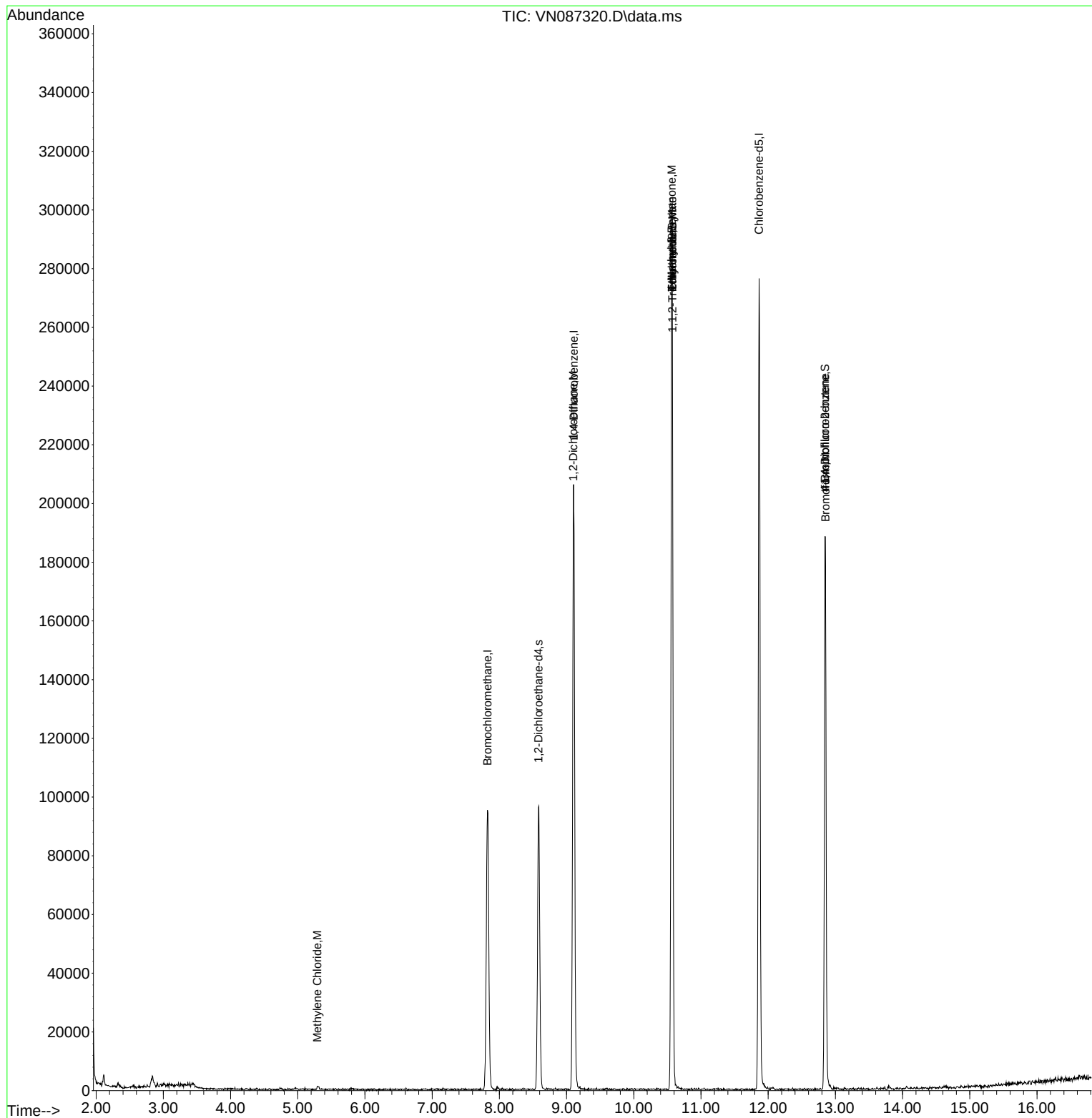
Internal Standards						
1) Bromochloromethane	7.824	128	37049	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	182662	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	167567	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	82189	29.443	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.133%		
60) 4-Bromofluorobenzene	12.847	95	71542	27.668	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.233%		
63) Toluene-d8	10.571	98	223016	29.642	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.800%		
Target Compounds						
					Qvalue	
18) Methylene Chloride	5.289	84	652	0.251	ug/l #	30
36) 1,2-Dichloroethane	9.100	62	5957	2.044	ug/l #	75
50) 1,1,2-Trichloroethane	10.576	97	8349	3.818	ug/l #	1
51) Ethyl methacrylate	10.571	69	807	0.242	ug/l #	85
56) Bromoform	12.853	173	805	0.510	ug/l #	1
58) 4-Methyl-2-Pentanone	10.565	43	1004	0.298	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.847	75	37036	28.520	ug/l #	13

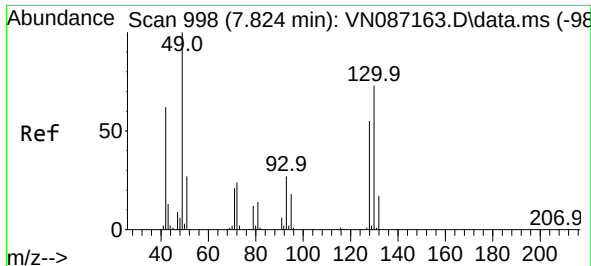
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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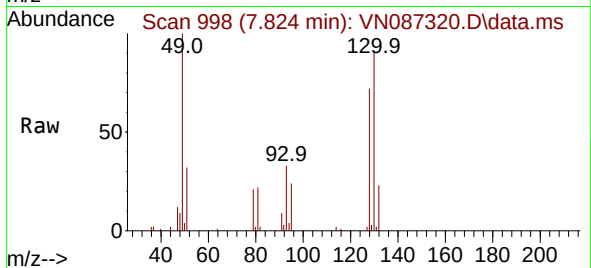
Quant Time: Jul 11 01:09:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jun 25 10:49:56 2025
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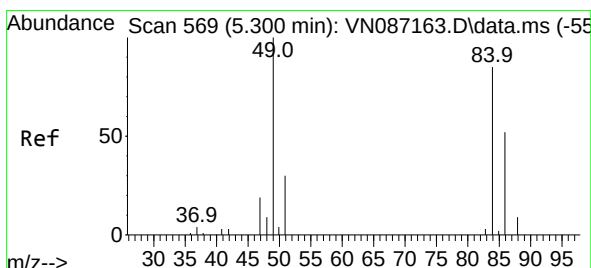
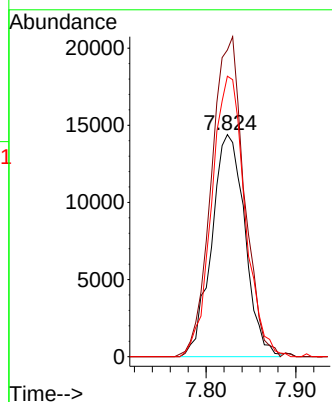
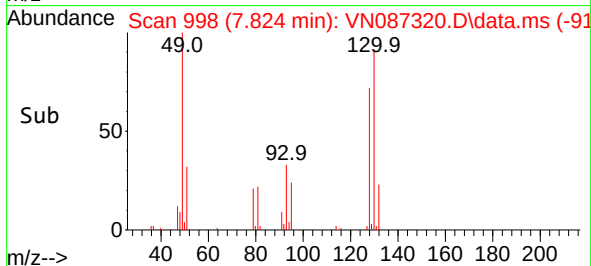


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087320.D
Acq: 10 Jul 2025 13:06

Instrument :
MSVOA_N
ClientSampleId :

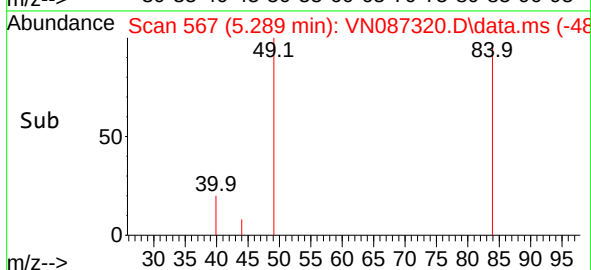
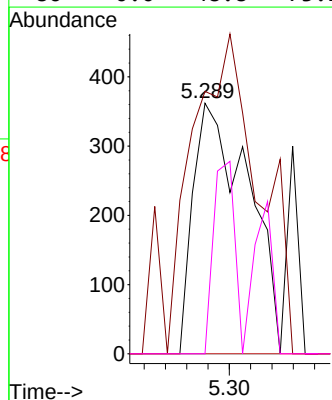
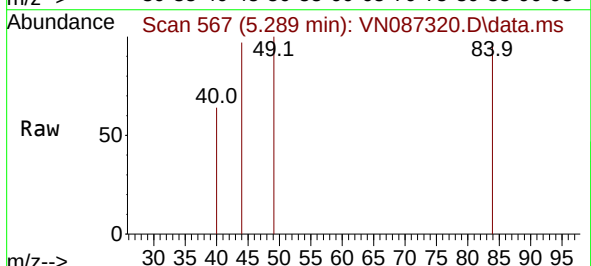


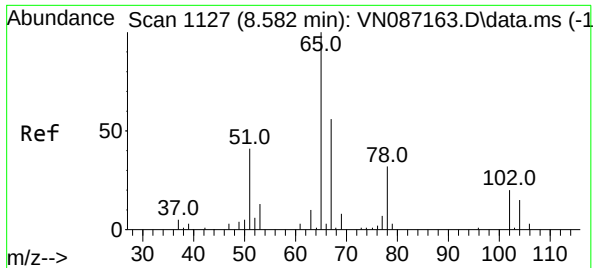
Tgt Ion:128 Resp: 37049
Ion Ratio Lower Upper
128 100
49 142.3 0.0 450.5
130 126.5 0.0 320.7



#18
Methylene Chloride
Concen: 0.251 ug/l
RT: 5.289 min Scan# 567
Delta R.T. -0.012 min
Lab File: VN087320.D
Acq: 10 Jul 2025 13:06

Tgt Ion: 84 Resp: 652
Ion Ratio Lower Upper
84 100
49 43.4 94.0 141.0#
51 0.0 28.3 42.5#
86 0.0 48.8 73.2#

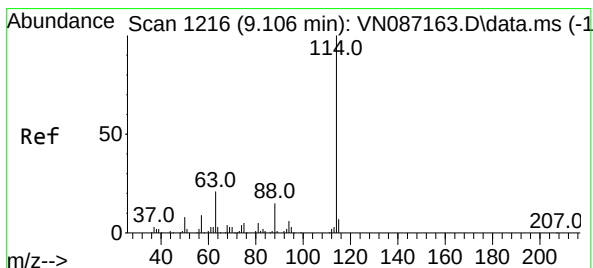
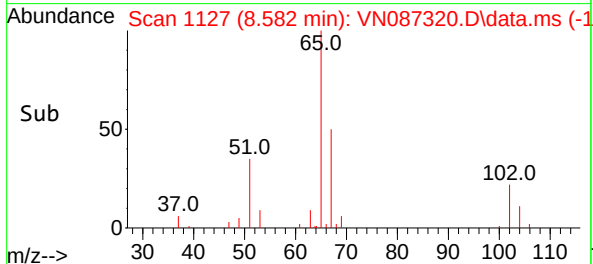
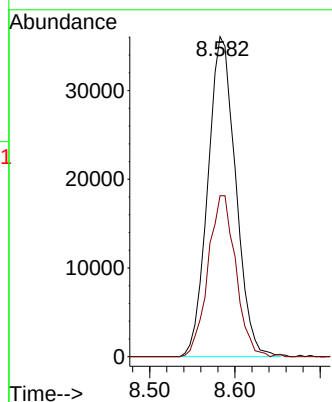
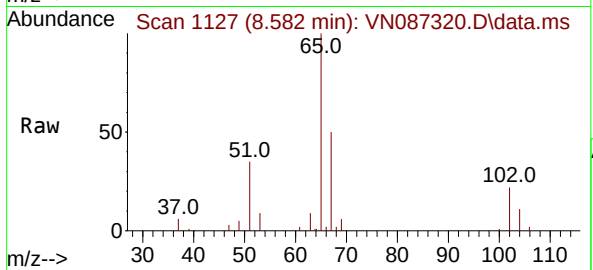




#27
1,2-Dichloroethane-d4
Concen: 29.443 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN087320.D
Acq: 10 Jul 2025 13:06

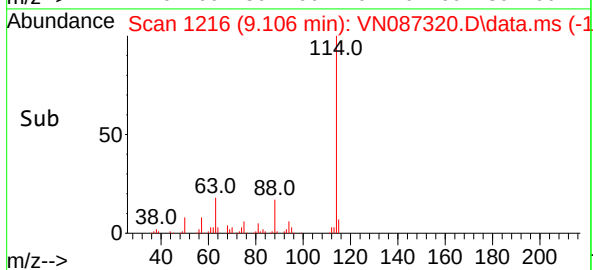
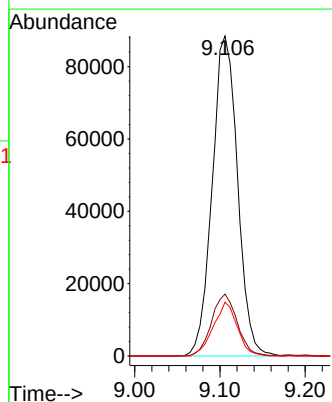
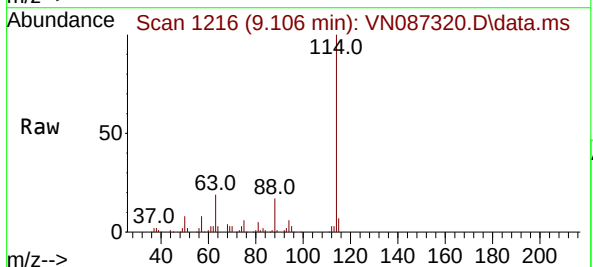
Instrument :
MSVOA_N
ClientSampleId :

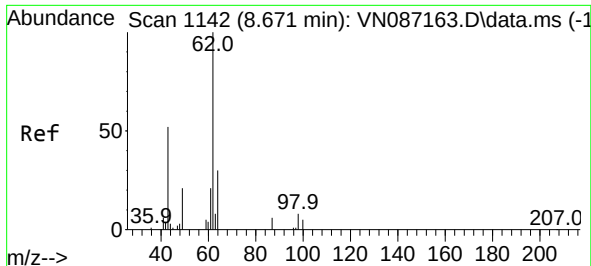
Tgt Ion: 65 Resp: 82189
Ion Ratio Lower Upper
65 100
67 50.0 41.9 62.9



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087320.D
Acq: 10 Jul 2025 13:06

Tgt Ion: 114 Resp: 182662
Ion Ratio Lower Upper
114 100
63 19.6 17.0 25.4
88 15.9 12.6 19.0





#36

1,2-Dichloroethane

Concen: 2.044 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.429 min

Lab File: VN087320.D

Acq: 10 Jul 2025 13:06

Instrument :

MSVOA_N

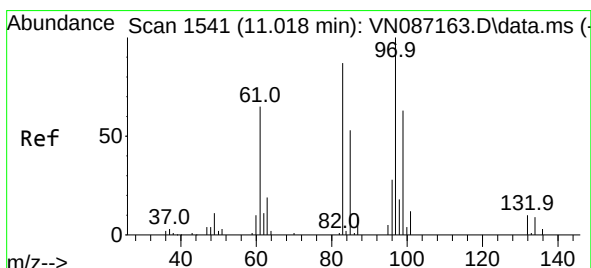
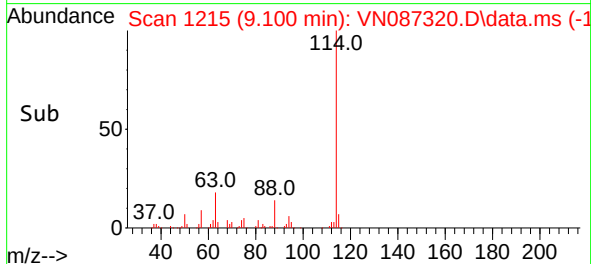
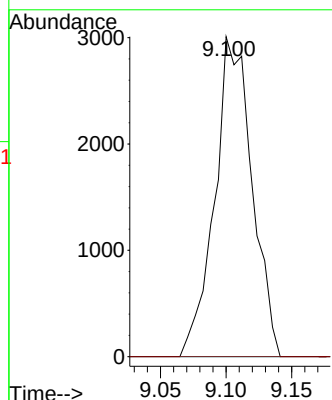
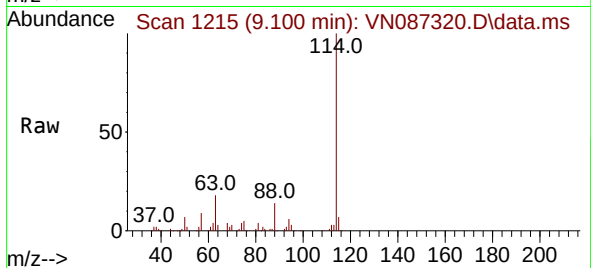
ClientSampleId :

Tgt Ion: 62 Resp: 5957

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#50

1,1,2-Trichloroethane

Concen: 3.818 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. -0.441 min

Lab File: VN087320.D

Acq: 10 Jul 2025 13:06

Tgt Ion: 97 Resp: 8349

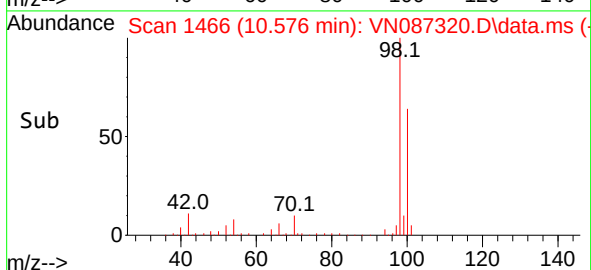
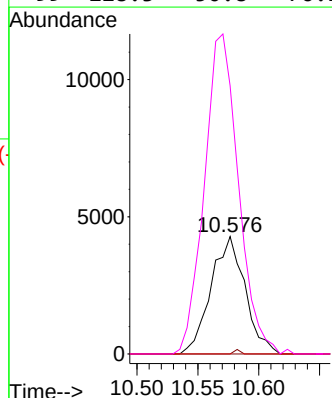
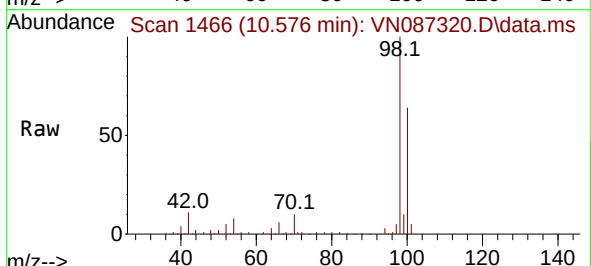
Ion Ratio Lower Upper

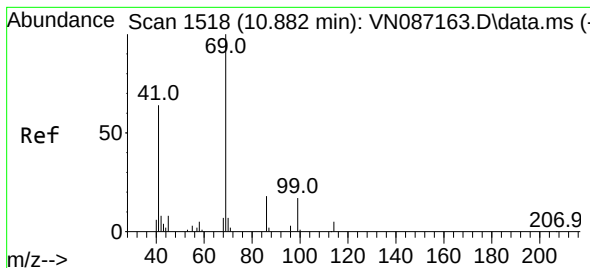
97 100

83 0.0 69.6 104.4#

85 0.0 42.0 63.0#

99 228.3 50.8 76.2#

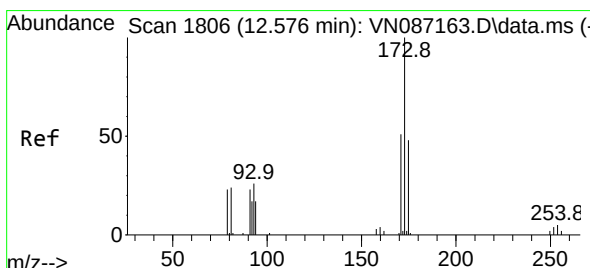
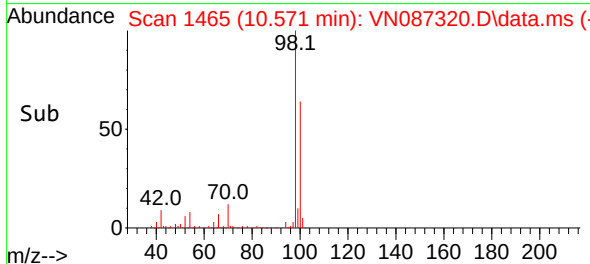
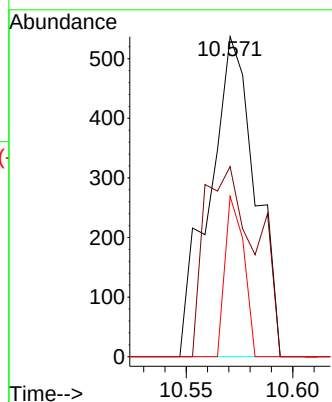
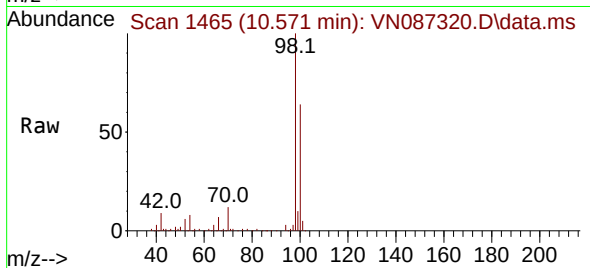




#51
Ethyl methacrylate
Concen: 0.242 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.312 min
Lab File: VN087320.D
Acq: 10 Jul 2025 13:06

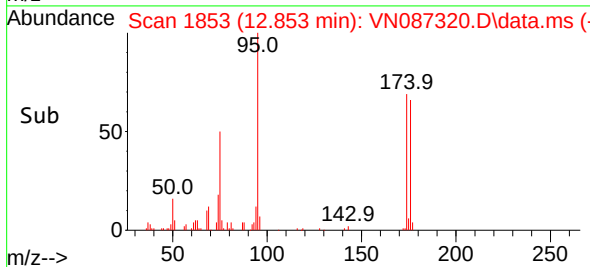
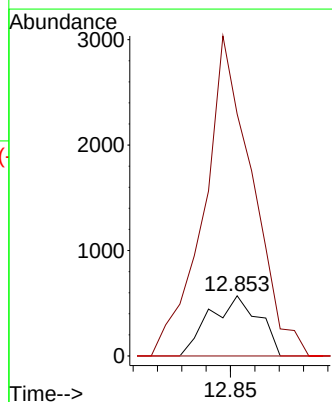
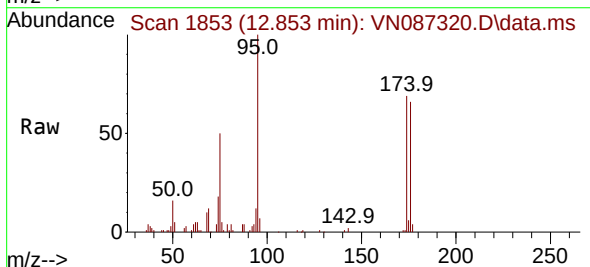
Instrument :
MSVOA_N
ClientSampleId :

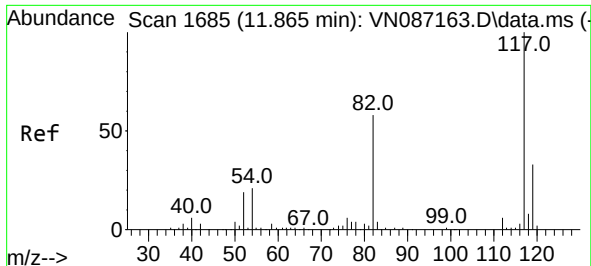
Tgt Ion: 69 Resp: 807
Ion Ratio Lower Upper
69 100
41 59.4 31.8 95.3
39 50.1 15.3 45.8#



#56
Bromoform
Concen: 0.510 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.276 min
Lab File: VN087320.D
Acq: 10 Jul 2025 13:06

Tgt Ion:173 Resp: 805
Ion Ratio Lower Upper
173 100
175 522.4 38.7 58.1#
254 0.0 4.2 6.4#

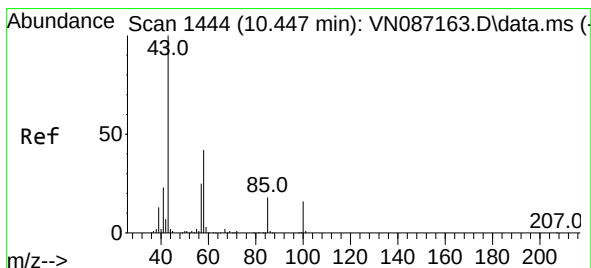
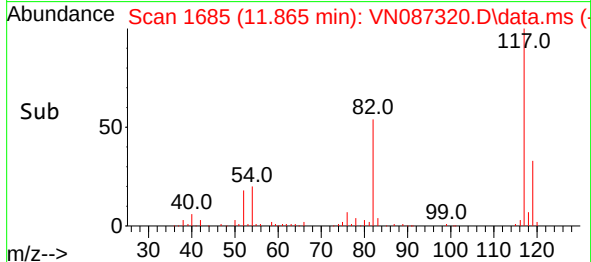
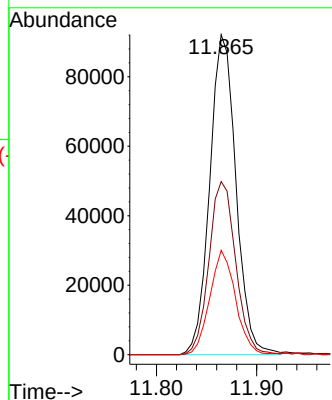
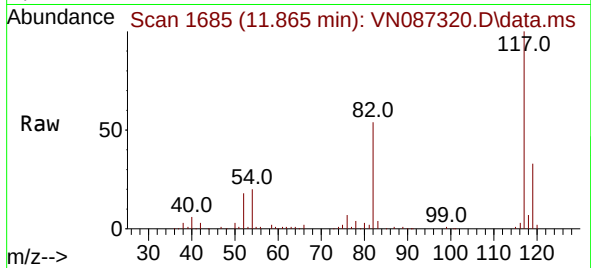




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087320.D
Acq: 10 Jul 2025 13:06

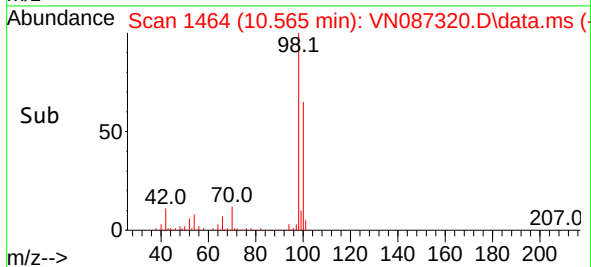
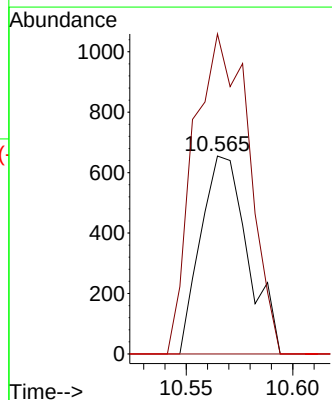
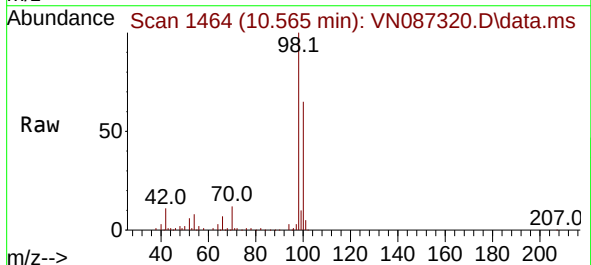
Instrument :
MSVOA_N
ClientSampleId :

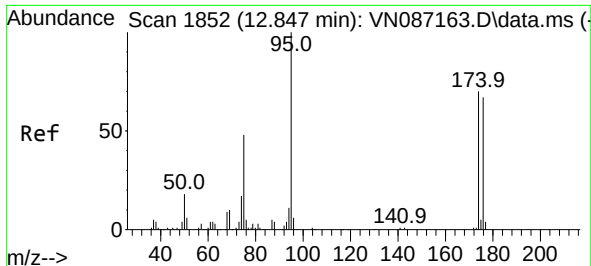
Tgt Ion:117 Resp: 167567
Ion Ratio Lower Upper
117 100
82 55.2 45.4 68.2
119 31.9 26.2 39.4



#58
4-Methyl-2-Pentanone
Concen: 0.298 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.118 min
Lab File: VN087320.D
Acq: 10 Jul 2025 13:06

Tgt Ion: 43 Resp: 1004
Ion Ratio Lower Upper
43 100
58 190.0 32.6 49.0#
85 0.0 14.6 22.0#

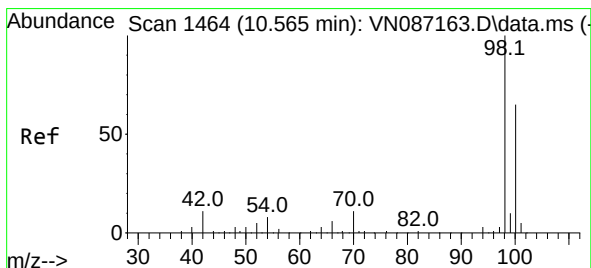
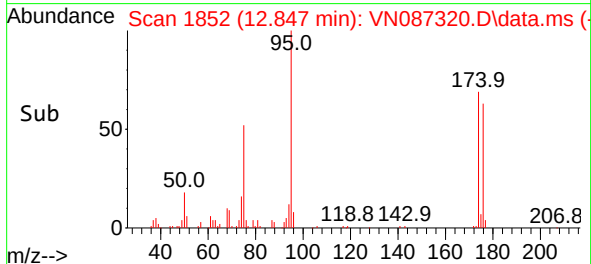
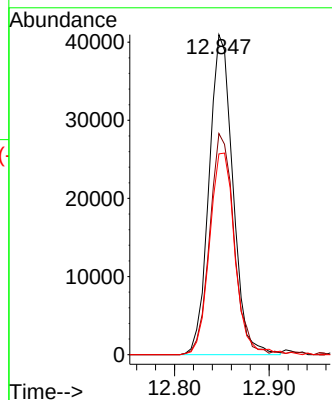
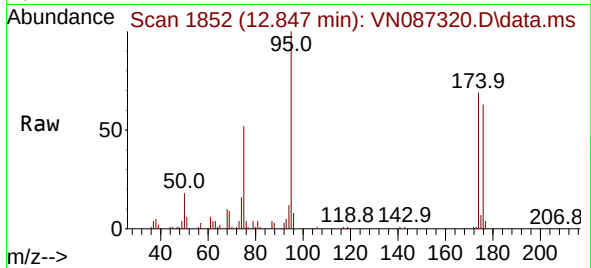




#60
4-Bromofluorobenzene
Concen: 27.668 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087320.D
Acq: 10 Jul 2025 13:06

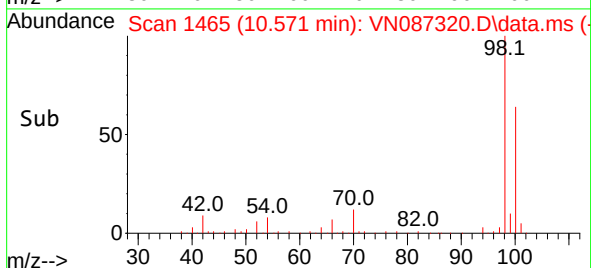
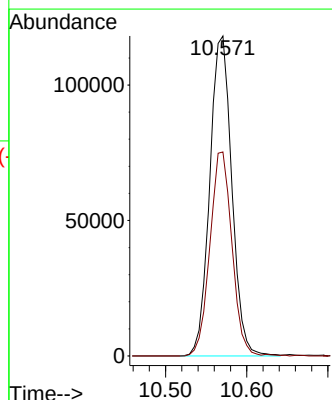
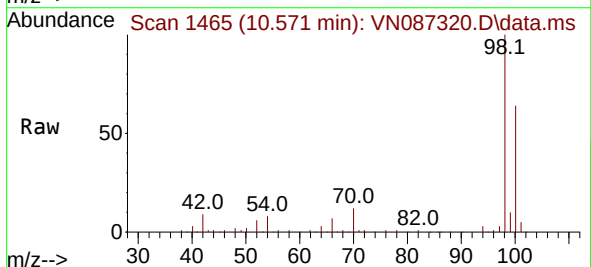
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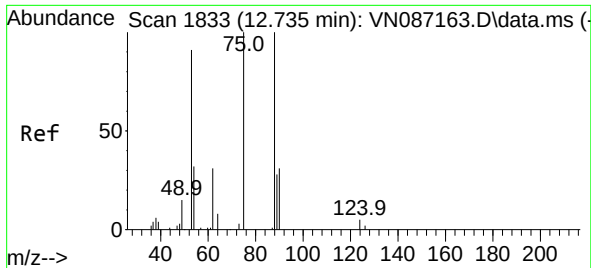
Tgt Ion: 95 Resp: 71542
Ion Ratio Lower Upper
95 100
174 70.1 54.5 81.7
176 66.1 51.9 77.9



#63
Toluene-d8
Concen: 29.642 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN087320.D
Acq: 10 Jul 2025 13:06

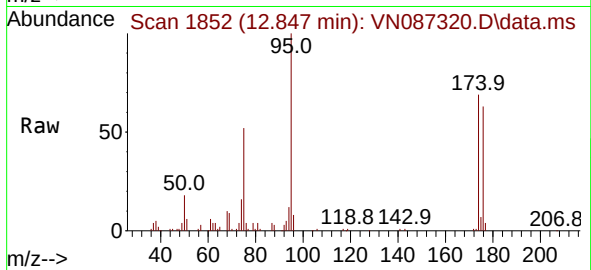
Tgt Ion: 98 Resp: 223016
Ion Ratio Lower Upper
98 100
100 63.5 52.5 78.7





#77
 t-1,4-Dichloro-2-butene
 Concen: 28.520 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN087320.D
 Acq: 10 Jul 2025 13:06

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 37036
 Ion Ratio Lower Upper
 75 100
 53 0.0 45.9 137.6#
 89 0.0 22.3 66.9#

