

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087356.D
 Acq On : 18 Jul 2025 11:04
 Operator : JC\MD
 Sample : VN0718WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBL01

Quant Time: Jul 18 23:17:17 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)

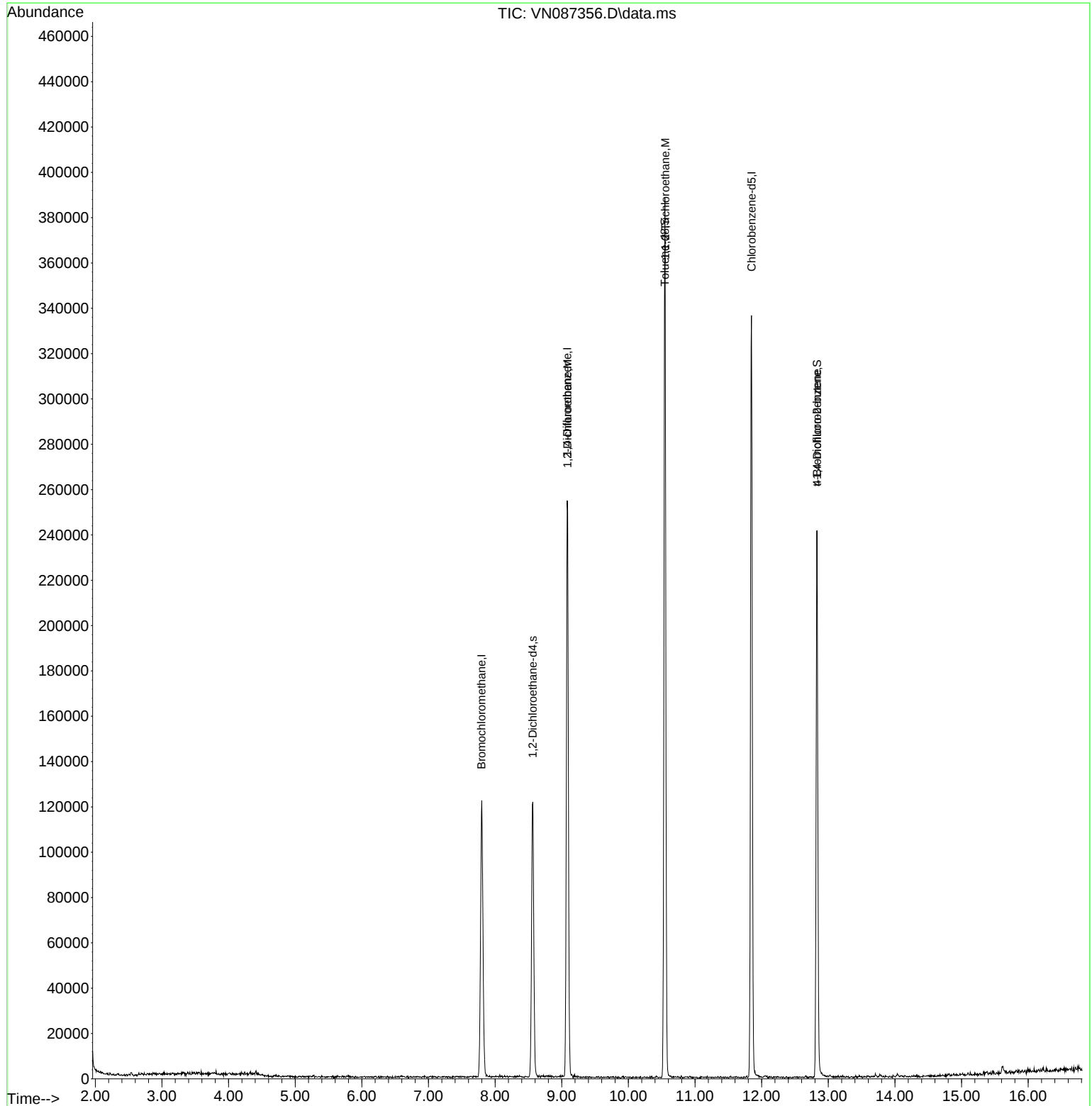
Internal Standards						
1) Bromochloromethane	7.794	128	41937	30.000	ug/l	-0.03
28) 1,4-Difluorobenzene	9.083	114	219664	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	193250	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	103673	32.810	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	=	109.367%
60) 4-Bromofluorobenzene	12.829	95	85866	28.794	ug/l	-0.02
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.967%
63) Toluene-d8	10.547	98	258214	29.759	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.200%
Target Compounds						
					Qvalue	
36) 1,2-Dichloroethane	9.088	62	8366	2.387	ug/l #	75
50) 1,1,2-Trichloroethane	10.553	97	8645	3.288	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.829	75	46679	31.168	ug/l #	13

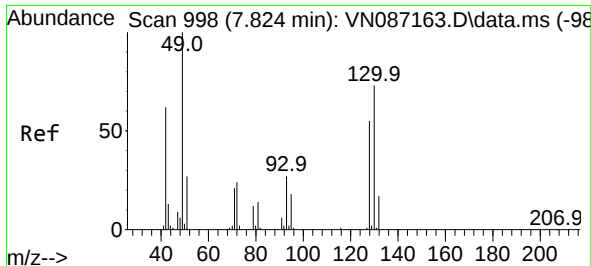
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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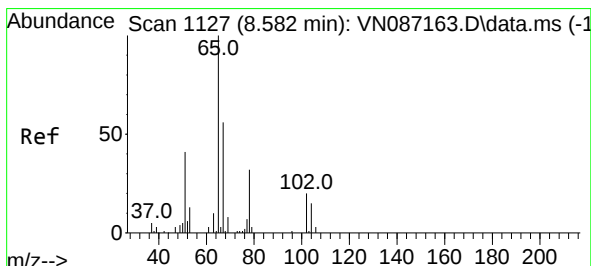
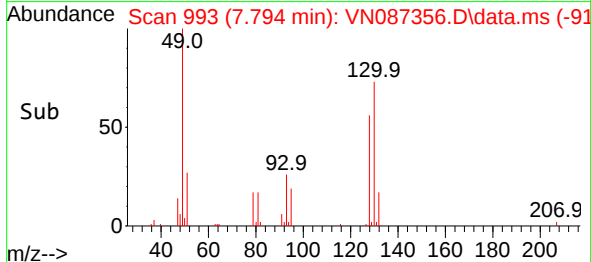
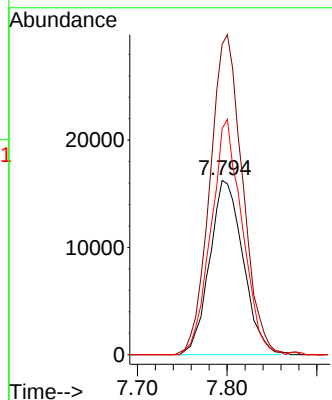
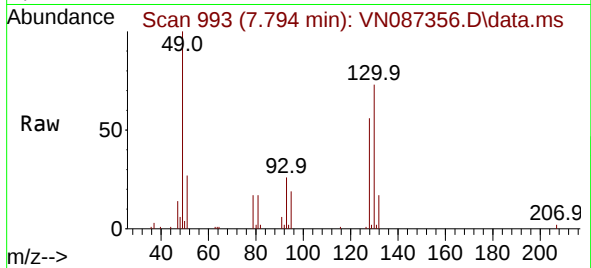




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 998
Delta R.T. -0.030 min
Lab File: VN087356.D
Acq: 18 Jul 2025 11:04

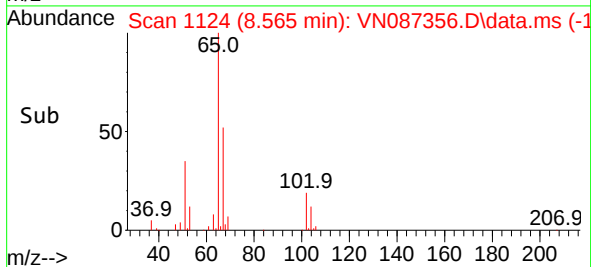
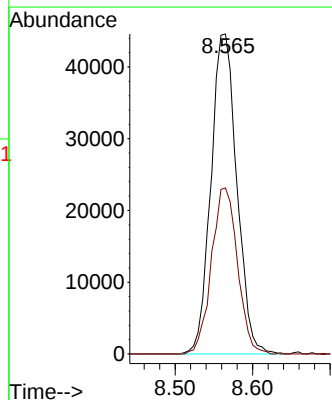
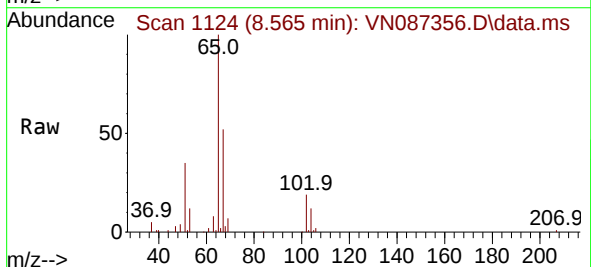
Instrument :
MSVOA_N
ClientSampleId :
VN0718WBL01

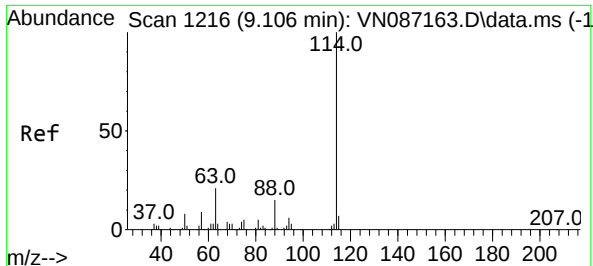
Tgt Ion:128 Resp: 41937
Ion Ratio Lower Upper
128 100
49 179.4 0.0 450.5
130 126.5 0.0 320.7



#27
1,2-Dichloroethane-d4
Concen: 32.810 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. -0.018 min
Lab File: VN087356.D
Acq: 18 Jul 2025 11:04

Tgt Ion: 65 Resp: 103673
Ion Ratio Lower Upper
65 100
67 52.1 41.9 62.9





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. -0.023 min

Lab File: VN087356.D

Acq: 18 Jul 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBL01

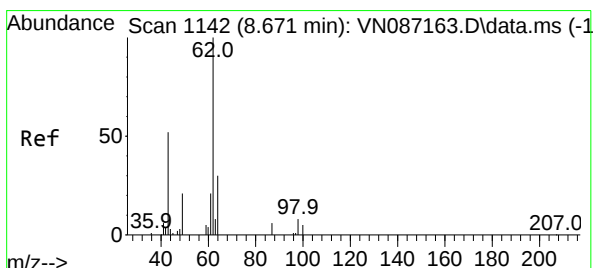
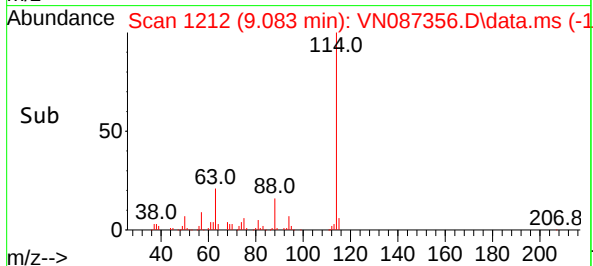
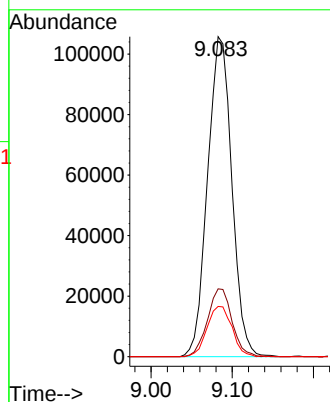
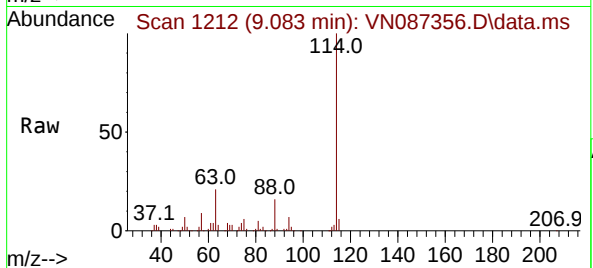
Tgt Ion:114 Resp: 219664

Ion Ratio Lower Upper

114 100

63 21.4 17.0 25.4

88 16.1 12.6 19.0



#36

1,2-Dichloroethane

Concen: 2.387 ug/l

RT: 9.088 min Scan# 1213

Delta R.T. 0.418 min

Lab File: VN087356.D

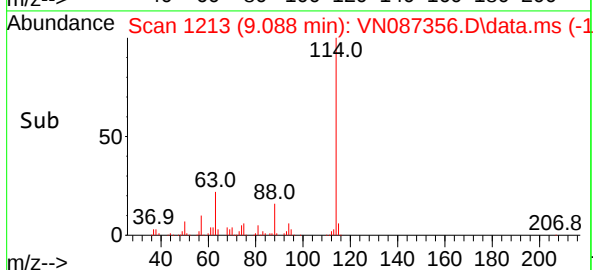
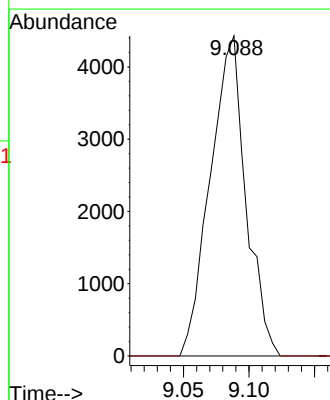
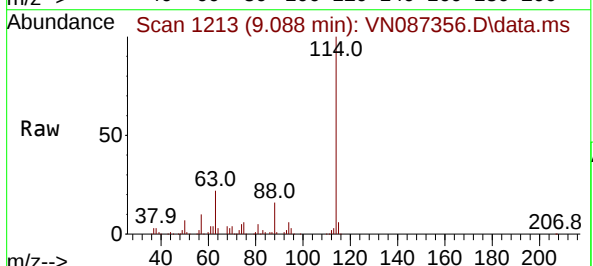
Acq: 18 Jul 2025 11:04

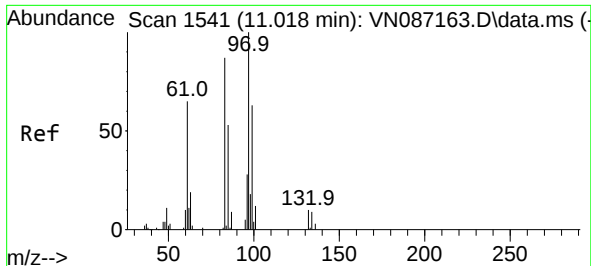
Tgt Ion: 62 Resp: 8366

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#

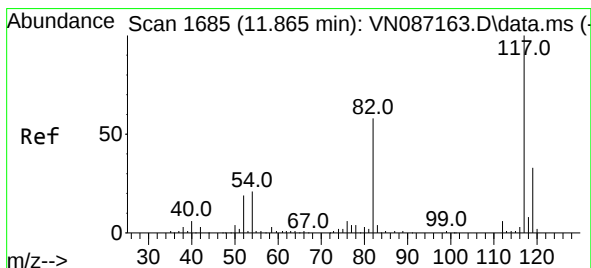
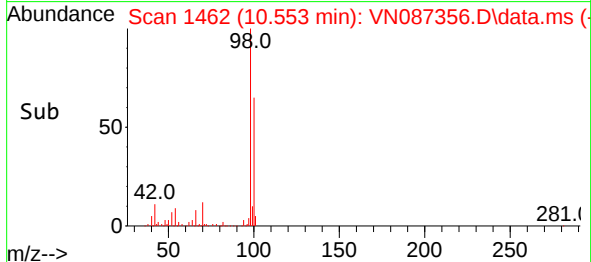
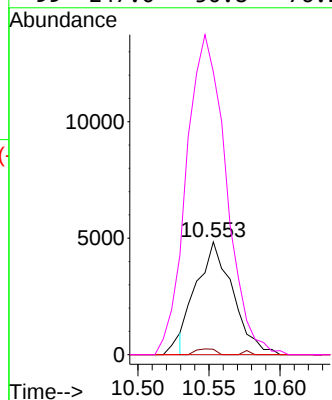
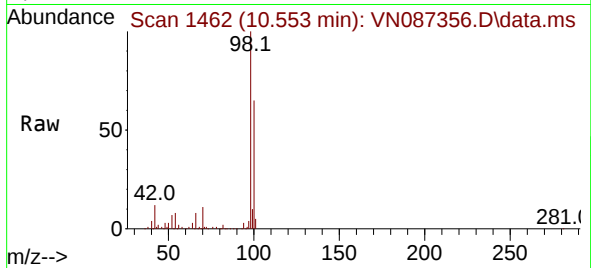




#50
1,1,2-Trichloroethane
Concen: 3.288 ug/l
RT: 10.553 min Scan# 1462
Delta R.T. -0.465 min
Lab File: VN087356.D
Acq: 18 Jul 2025 11:04

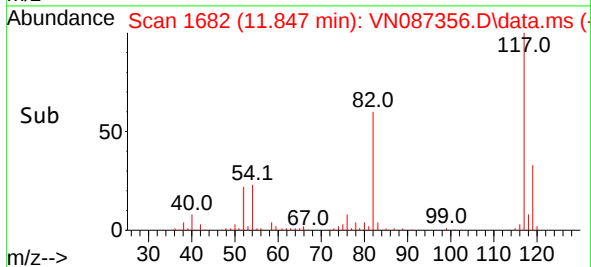
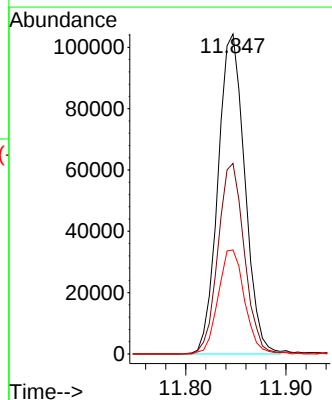
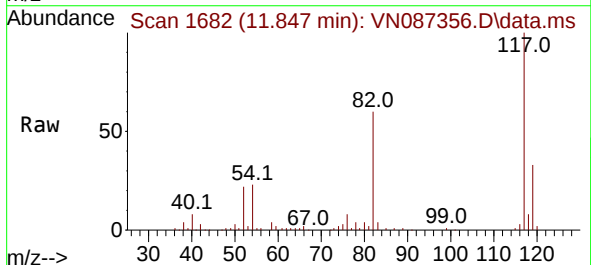
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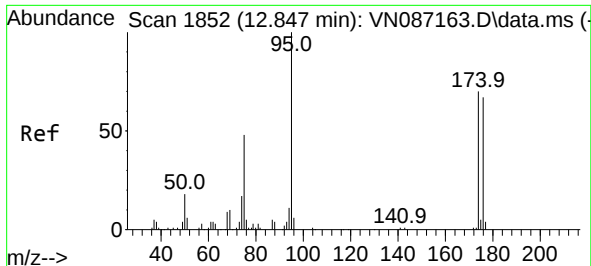
Tgt Ion: 97	Resp:	8645
Ion	Ratio	Lower Upper
97	100	
83	4.8	69.6 104.4#
85	0.0	42.0 63.0#
99	247.0	50.8 76.2#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.018 min
Lab File: VN087356.D
Acq: 18 Jul 2025 11:04

Tgt Ion: 117	Resp:	193250
Ion	Ratio	Lower Upper
117	100	
82	58.4	45.4 68.2
119	31.8	26.2 39.4

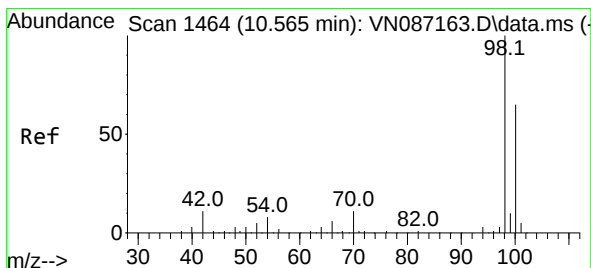
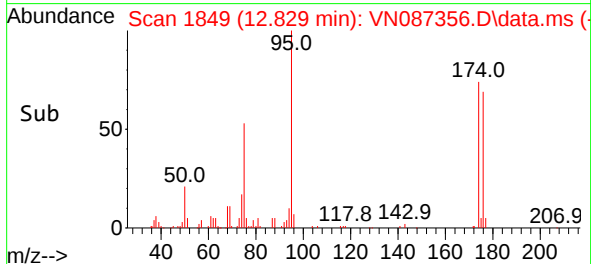
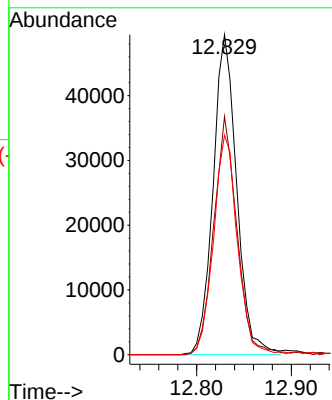
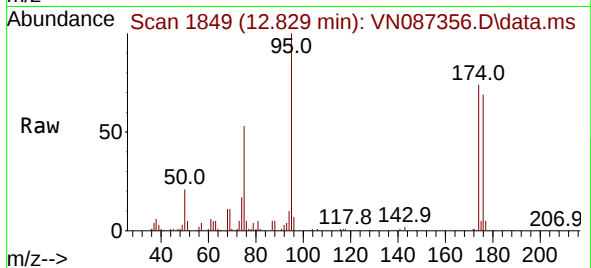




#60
4-Bromofluorobenzene
Concen: 28.794 ug/l
RT: 12.829 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN087356.D
Acq: 18 Jul 2025 11:04

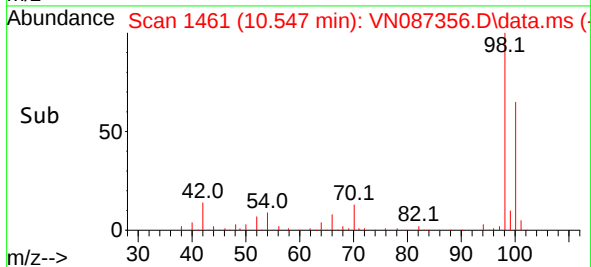
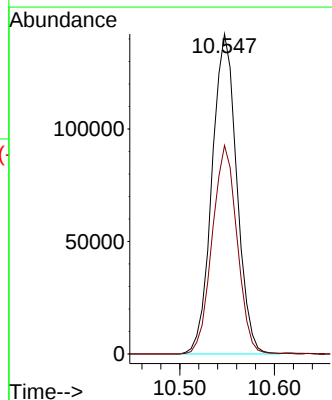
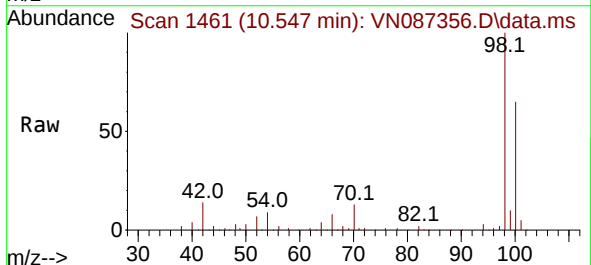
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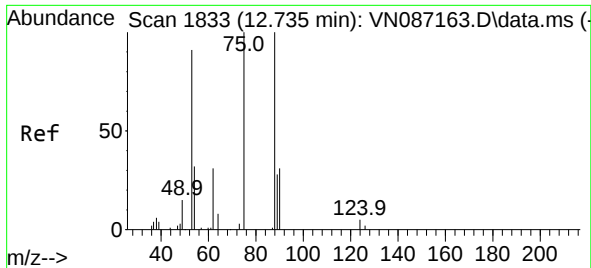
Tgt Ion: 95 Resp: 85866
Ion Ratio Lower Upper
95 100
174 72.9 54.5 81.7
176 69.1 51.9 77.9



#63
Toluene-d8
Concen: 29.759 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.018 min
Lab File: VN087356.D
Acq: 18 Jul 2025 11:04

Tgt Ion: 98 Resp: 258214
Ion Ratio Lower Upper
98 100
100 65.4 52.5 78.7





#77

t-1,4-Dichloro-2-butene

Concen: 31.168 ug/l

RT: 12.829 min Scan# 11

Delta R.T. 0.094 min

Lab File: VN087356.D

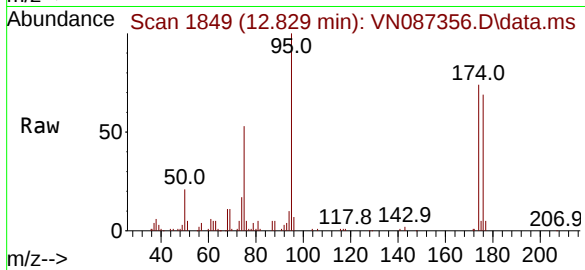
Acq: 18 Jul 2025 11:04

Instrument :

MSVOA_N

ClientSampleId :

VN0718WBL01



Tgt Ion: 75 Resp: 46679

Ion Ratio Lower Upper

75 100

53 0.0 45.9 137.6#

89 0.0 22.3 66.9#

