

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091125\
 Data File : VN087806.D
 Acq On : 11 Sep 2025 18:11
 Operator : JC\MD
 Sample : Q3083-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW3S

Quant Time: Sep 12 02:57:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 22 02:55:42 2025
 Response via : Initial Calibration

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

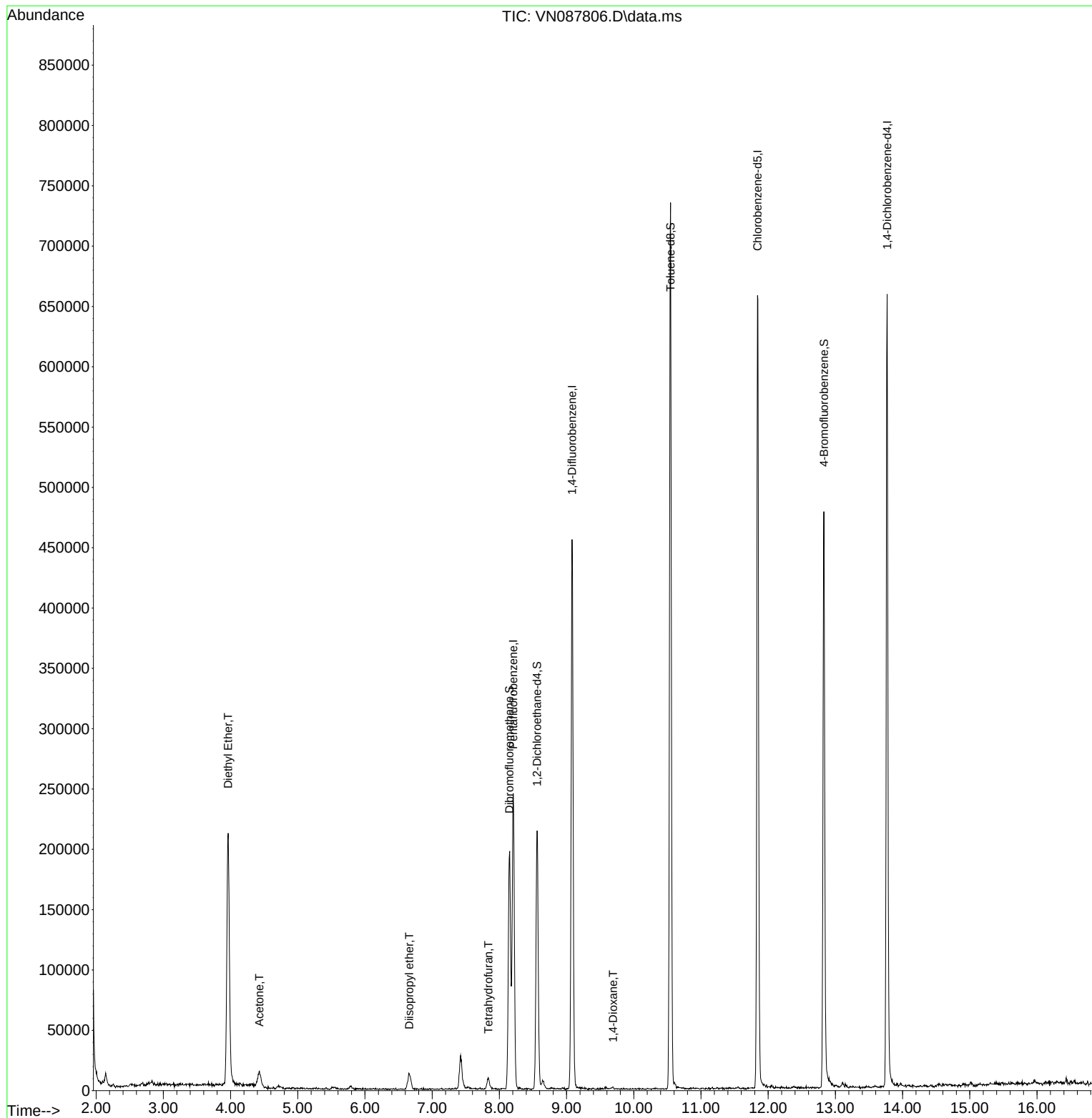
Internal Standards						
1) Pentafluorobenzene	8.206	168	165866	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	379915	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	368148	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	175104	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	181115	53.294	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 106.580%		
35) Dibromofluoromethane	8.147	113	143050	52.151	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.300%		
50) Toluene-d8	10.547	98	498776	48.583	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 97.160%		
62) 4-Bromofluorobenzene	12.829	95	167282	45.817	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 91.640%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.965	74	127017	70.917	ug/l	99
16) Acetone	4.430	43	21721	11.741	ug/l	98
22) Diisopropyl ether	6.659	45	15469	1.654	ug/l	92
29) Tetrahydrofuran	7.836	42	6398	4.085	ug/l #	90
49) 1,4-Dioxane	9.694	88	1208	21.948	ug/l #	91

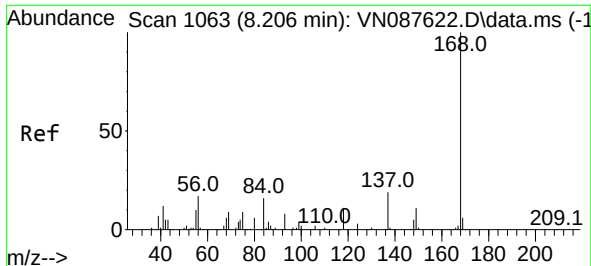
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.206 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087806.D

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Instrument :

MSVOA_N

ClientSampleId :

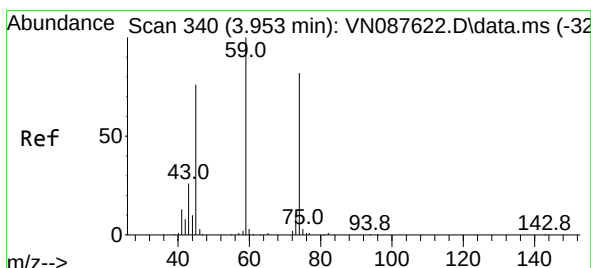
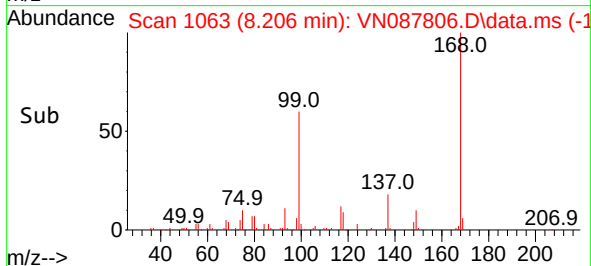
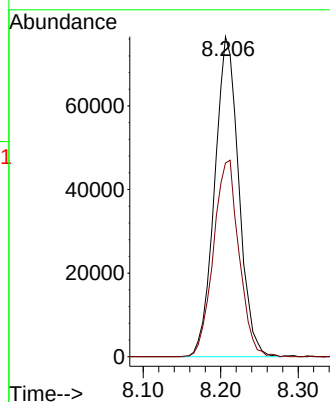
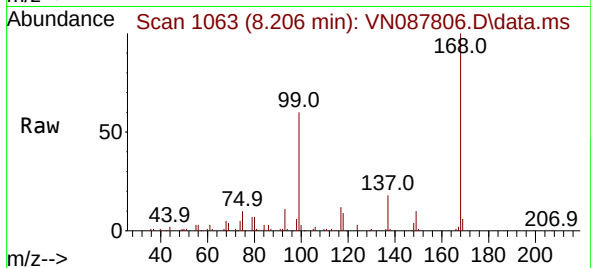
MW3S

Tgt Ion:168 Resp: 165866

Ion Ratio Lower Upper

168 100

99 60.5 57.2 85.8



#8

Diethyl Ether

Concen: 70.917 ug/l

RT: 3.965 min Scan# 342

Delta R.T. 0.012 min

Lab File: VN087806.D

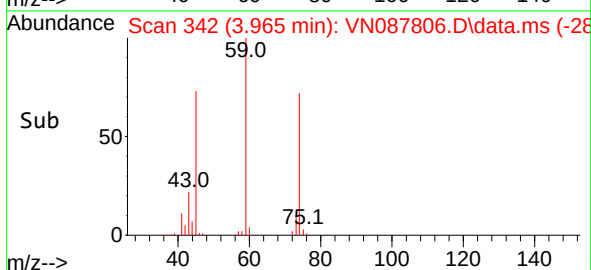
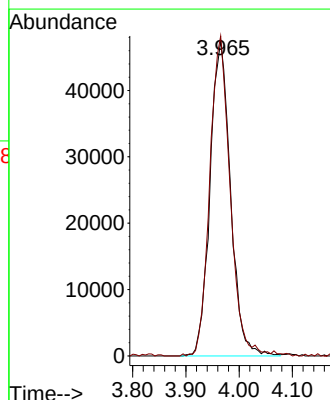
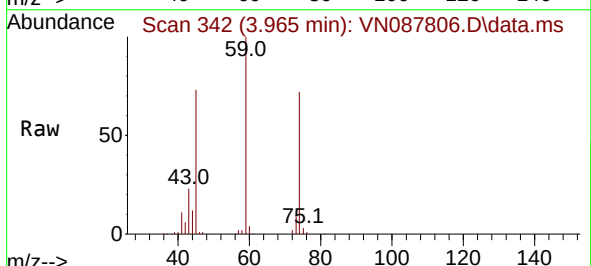
Acq: 11 Sep 2025 18:11

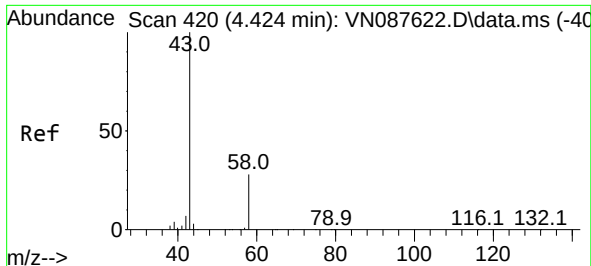
Tgt Ion: 74 Resp: 127017

Ion Ratio Lower Upper

74 100

45 100.7 50.6 151.9

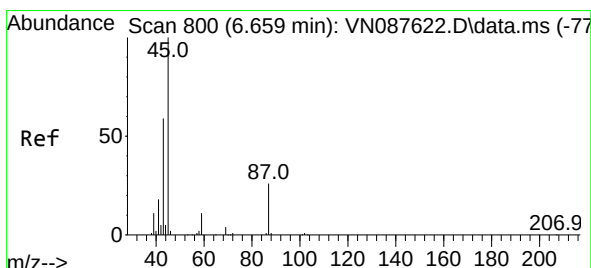
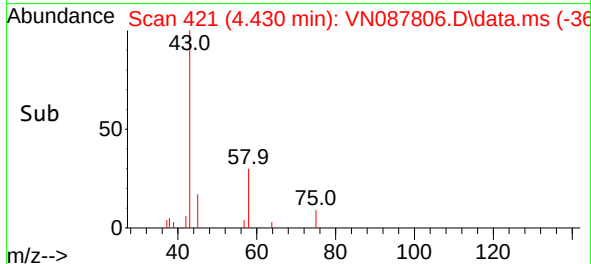
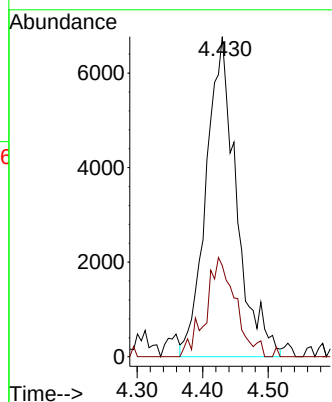
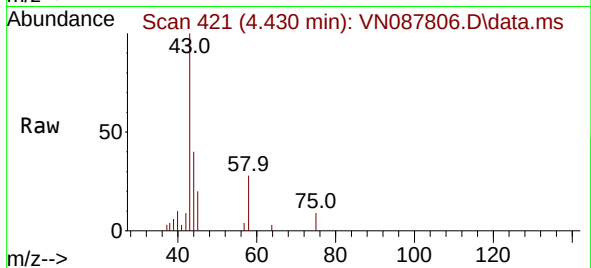




#16
Acetone
Concen: 11.741 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

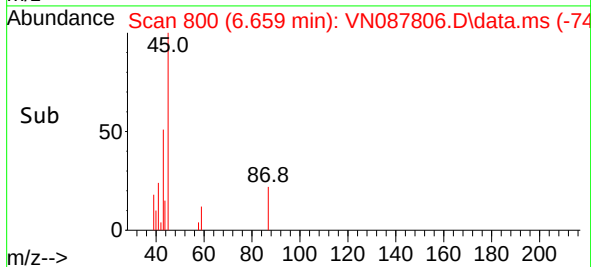
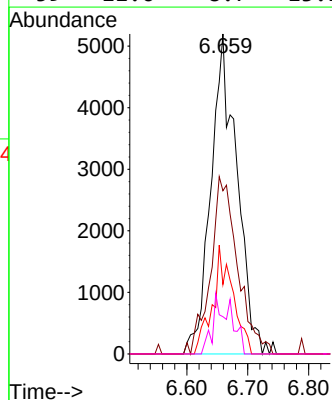
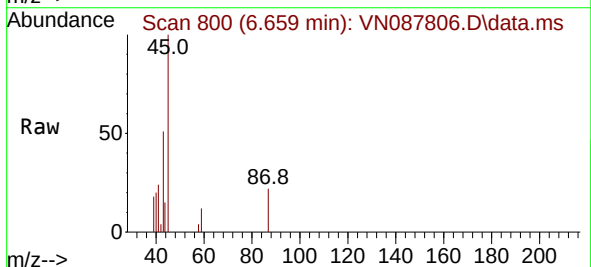
Instrument :
MSVOA_N
ClientSampleId :
MW3S

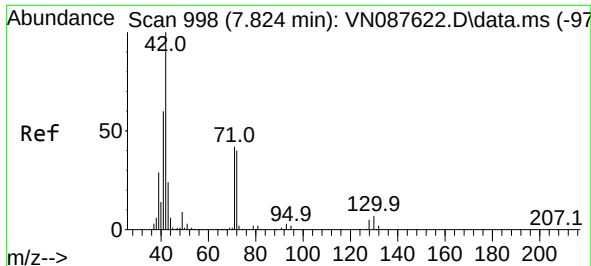
Tgt Ion: 43 Resp: 21721
Ion Ratio Lower Upper
43 100
58 29.1 22.6 33.8



#22
Diisopropyl ether
Concen: 1.654 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.000 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

Tgt Ion: 45 Resp: 15469
Ion Ratio Lower Upper
45 100
43 66.3 47.7 71.5
87 21.7 21.4 32.0
59 11.6 8.7 13.1





#29

Tetrahydrofuran

Concen: 4.085 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.012 min

Lab File: VN087806.D

Acq: 11 Sep 2025 18:11

Instrument :

MSVOA_N

ClientSampleId :

MW3S

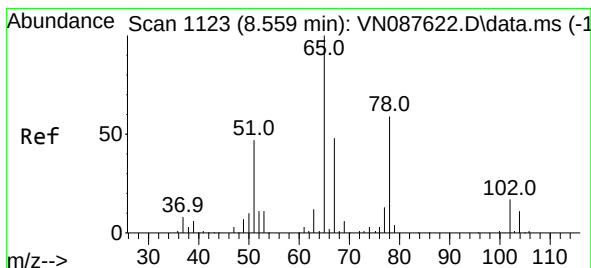
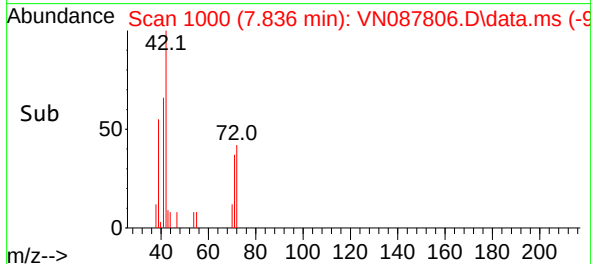
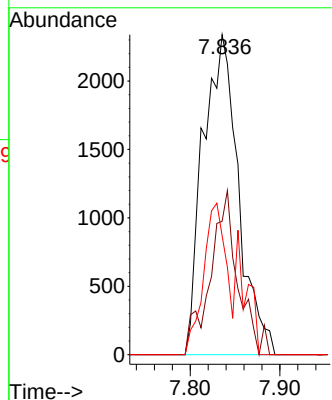
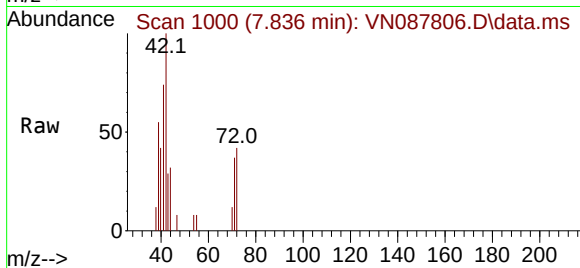
Tgt Ion: 42 Resp: 6398

Ion Ratio Lower Upper

42 100

72 39.0 33.7 50.5

71 30.4 31.9 47.9#



#33

1,2-Dichloroethane-d4

Concen: 53.294 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087806.D

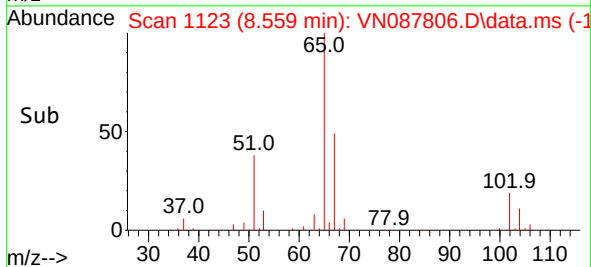
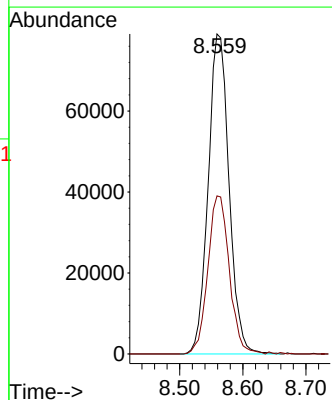
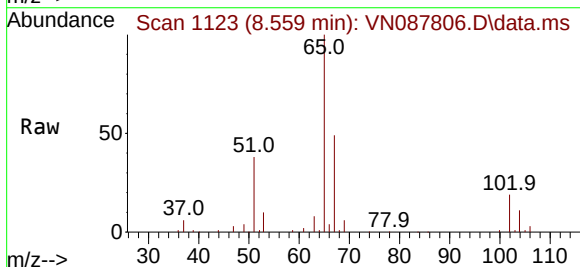
Acq: 11 Sep 2025 18:11

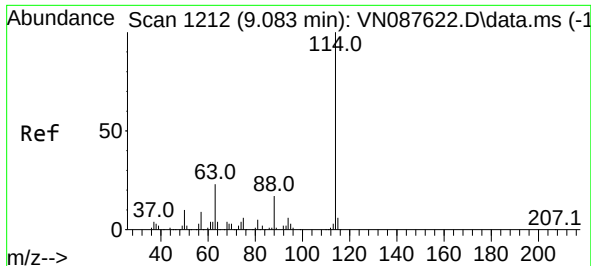
Tgt Ion: 65 Resp: 181115

Ion Ratio Lower Upper

65 100

67 50.8 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087806.D

Acq: 11 Sep 2025 18:11

Instrument :

MSVOA_N

ClientSampleId :

MW3S

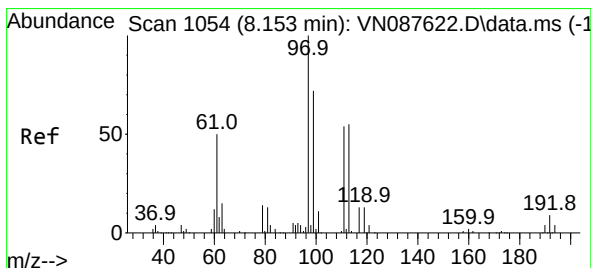
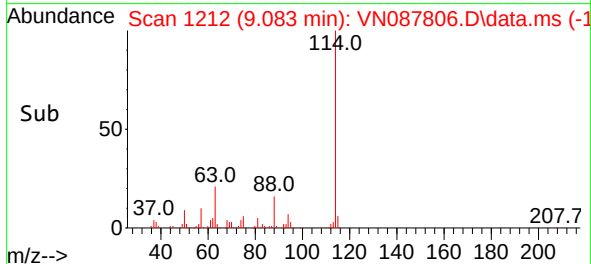
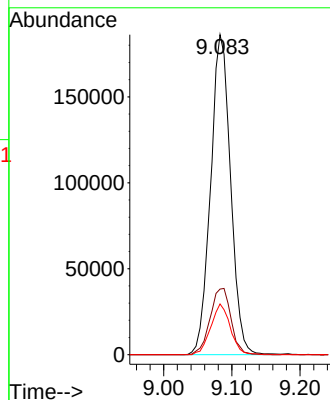
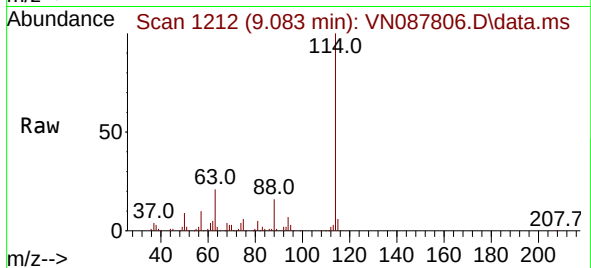
Tgt Ion:114 Resp: 379915

Ion Ratio Lower Upper

114 100

63 20.5 0.0 45.2

88 15.8 0.0 33.4



#35

Dibromofluoromethane

Concen: 52.151 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN087806.D

Acq: 11 Sep 2025 18:11

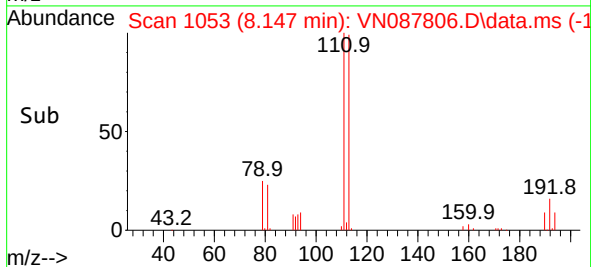
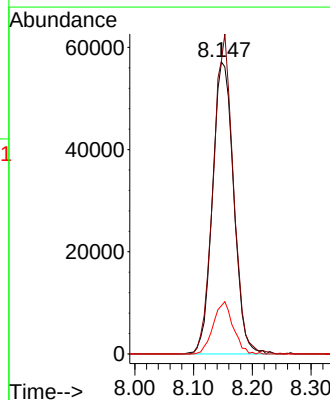
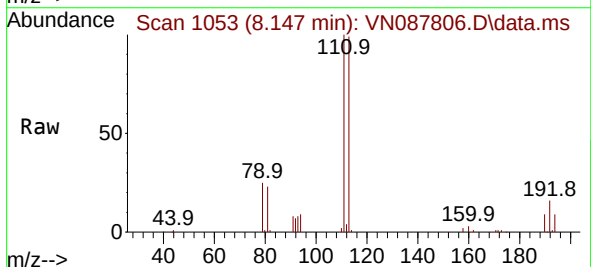
Tgt Ion:113 Resp: 143050

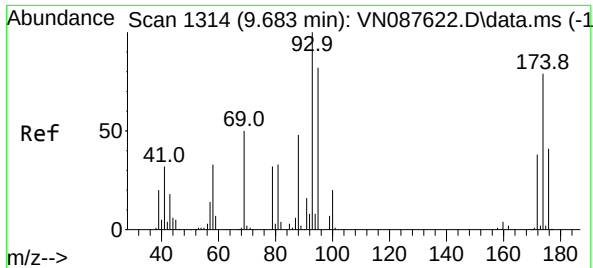
Ion Ratio Lower Upper

113 100

111 104.0 82.8 124.2

192 16.8 12.8 19.2





#49

1,4-Dioxane

Concen: 21.948 ug/l

RT: 9.694 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN087806.D

Acq: 11 Sep 2025 18:11

Instrument :

MSVOA_N

ClientSampleId :

MW3S

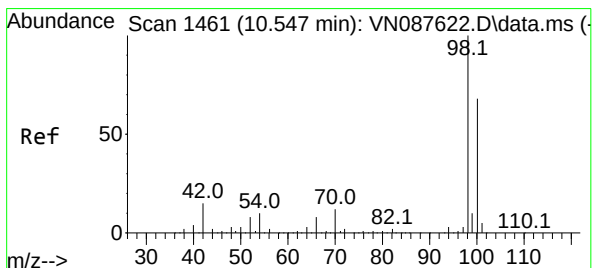
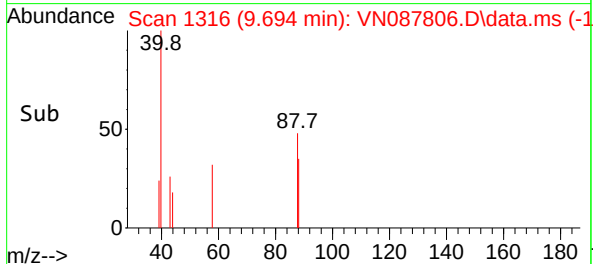
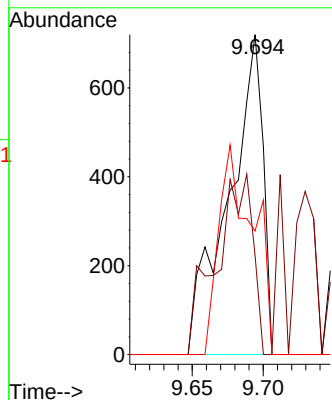
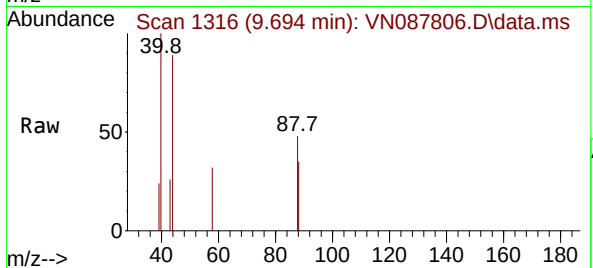
Tgt Ion: 88 Resp: 1208

Ion Ratio Lower Upper

88 100

43 60.9 0.0 0.0#

58 65.1 57.9 86.9



#50

Toluene-d8

Concen: 48.583 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087806.D

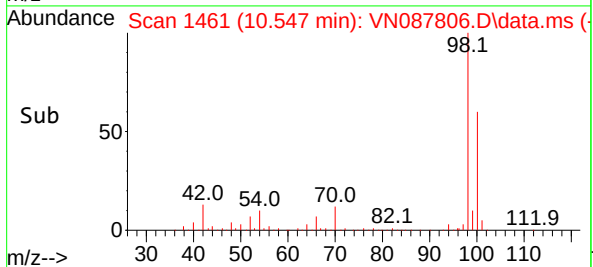
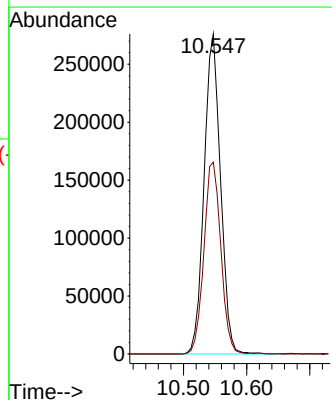
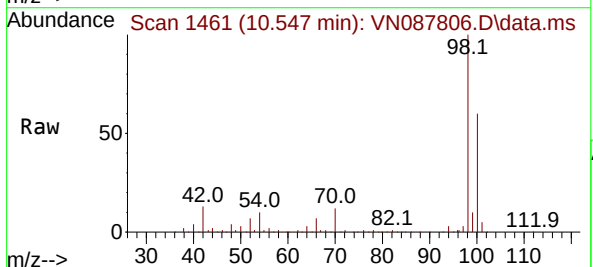
Acq: 11 Sep 2025 18:11

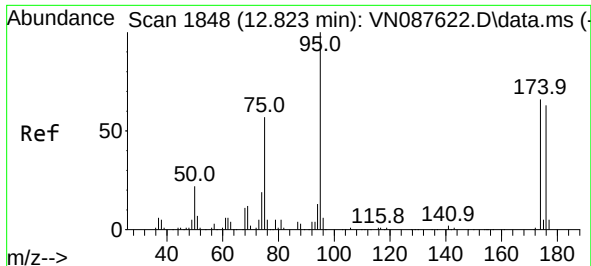
Tgt Ion: 98 Resp: 498776

Ion Ratio Lower Upper

98 100

100 61.8 52.8 79.2

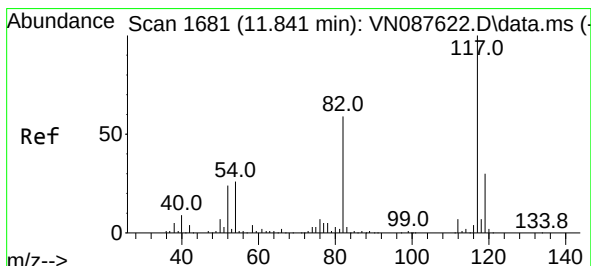
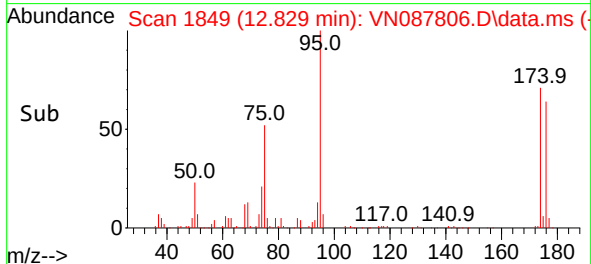
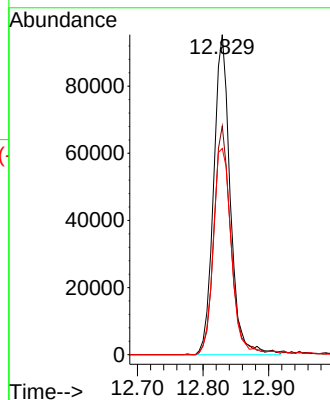
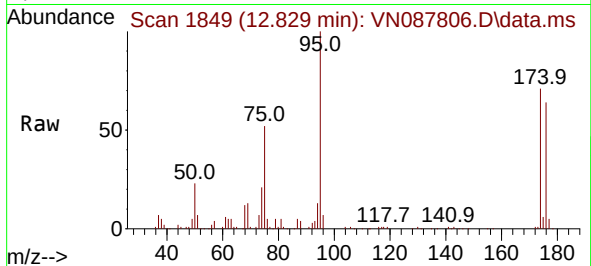




#62
4-Bromofluorobenzene
Concen: 45.817 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

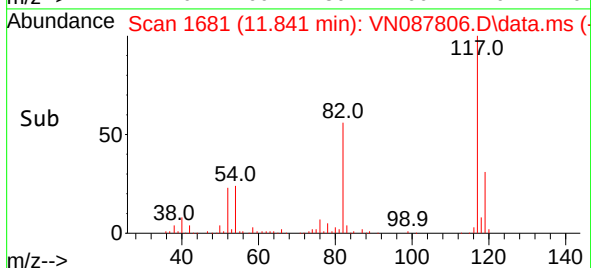
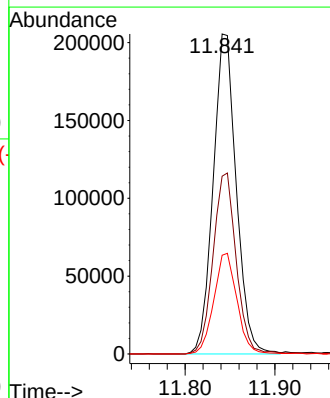
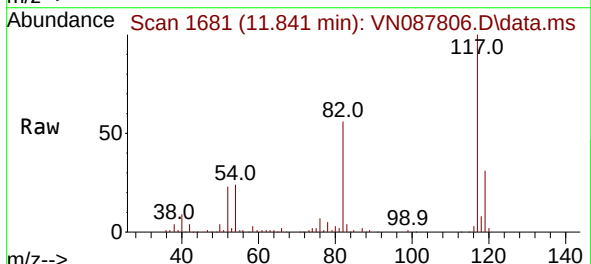
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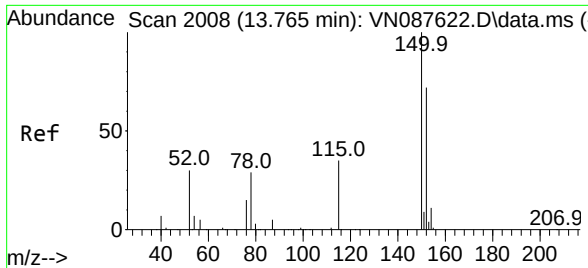
Tgt Ion: 95 Resp: 167282
Ion Ratio Lower Upper
95 100
174 72.4 0.0 138.4
176 70.4 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN087806.D
Acq: 11 Sep 2025 18:11

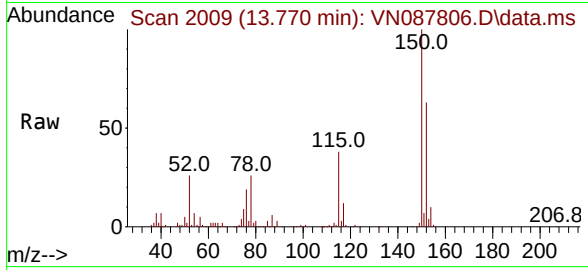
Tgt Ion: 117 Resp: 368148
Ion Ratio Lower Upper
117 100
82 55.6 47.4 71.2
119 30.9 24.3 36.5





#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN087806.D
 Acq: 11 Sep 2025 18:11

Instrument :
 MSVOA_N
 ClientSampleId :
 MW3S



Tgt Ion:	152	Resp:	175104
Ion	Ratio	Lower	Upper
152	100		
115	62.0	32.3	96.8
150	156.3	0.0	351.0

