

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091125\
 Data File : VN087805.D
 Acq On : 11 Sep 2025 17:51
 Operator : JC\MD
 Sample : Q3083-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW4I

Quant Time: Sep 12 02:57:05 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)

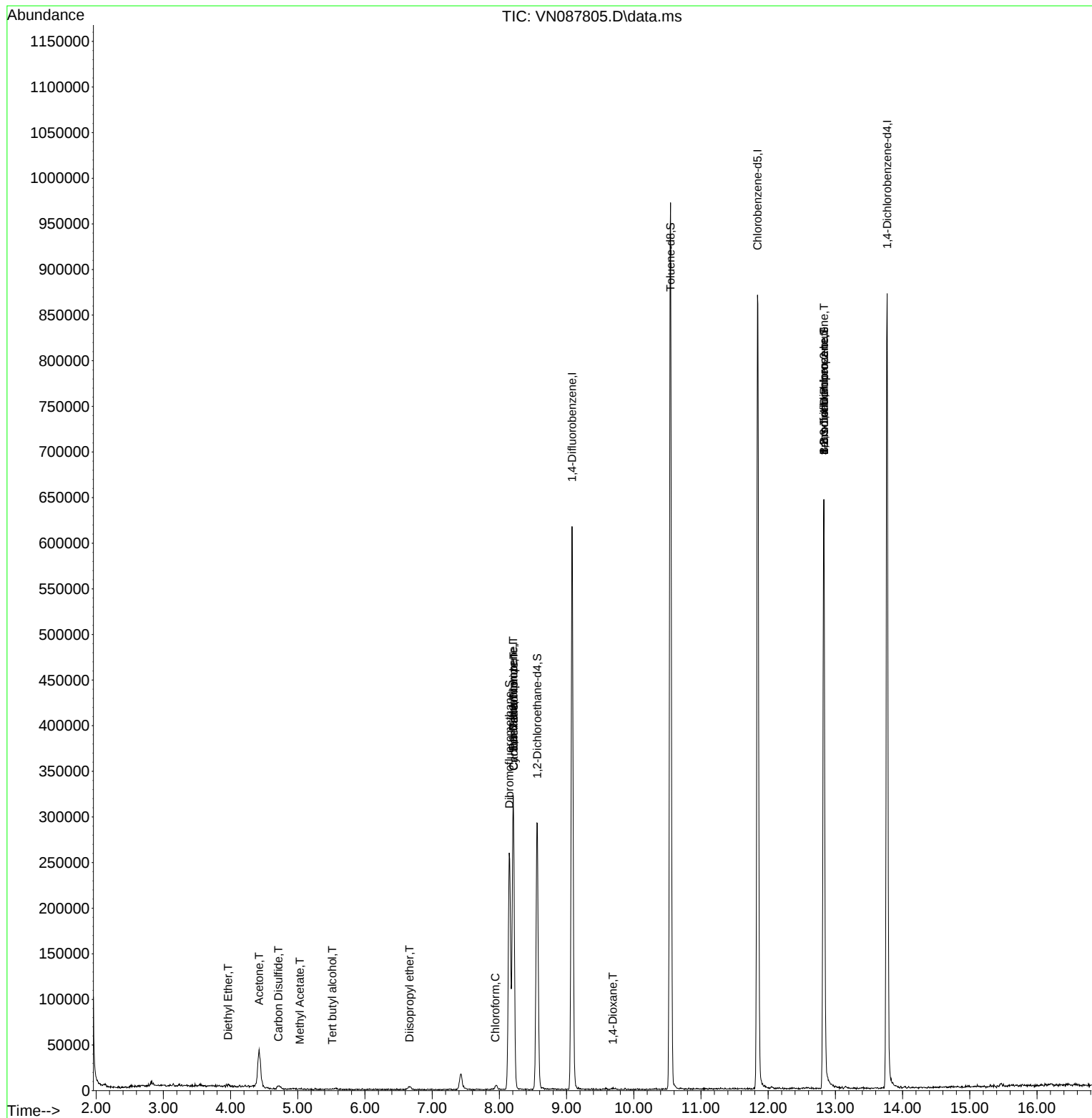
Internal Standards						
1) Pentafluorobenzene	8.206	168	220322	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	503440	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	493455	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	228190	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	242746	53.775	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.540%	
35) Dibromofluoromethane	8.147	113	189798	52.217	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.440%	
50) Toluene-d8	10.547	98	653379	48.027	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 96.060%	
62) 4-Bromofluorobenzene	12.829	95	228728	47.276	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 94.560%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.965	74	594	0.250	ug/l #	1
11) Tert butyl alcohol	5.512	59	314	0.401	ug/l #	71
16) Acetone	4.424	43	80974	32.952	ug/l	99
17) Carbon Disulfide	4.712	76	2523	0.289	ug/l #	74
18) Methyl Acetate	5.030	43	1142	0.222	ug/l #	79
20) Methylene Chloride	5.259	84	72	Below Cal	#	64
22) Diisopropyl ether	6.665	45	4214	0.339	ug/l #	85
30) Chloroform	7.941	83	5171	0.744	ug/l #	68
31) Cyclohexane	8.212	56	6775	1.193	ug/l #	31
36) 1,1-Dichloropropene	8.206	75	20845	3.738	ug/l #	49
38) Carbon Tetrachloride	8.212	117	24464	4.443	ug/l #	17
49) 1,4-Dioxane	9.688	88	1452	19.908	ug/l #	69
71) Bromoform	12.829	173	2368	0.758	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	130696	24.424	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	130696	64.659	ug/l #	1

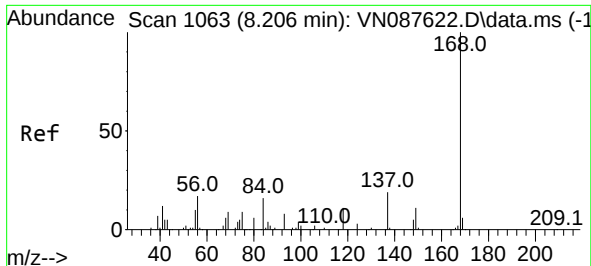
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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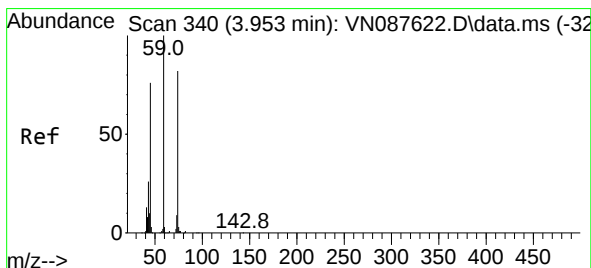
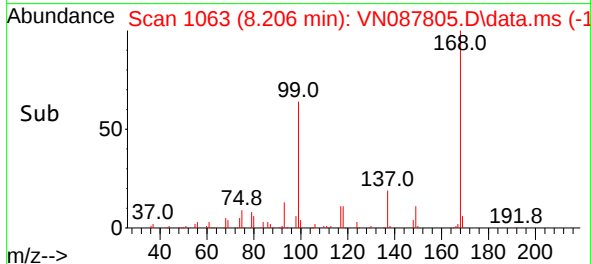
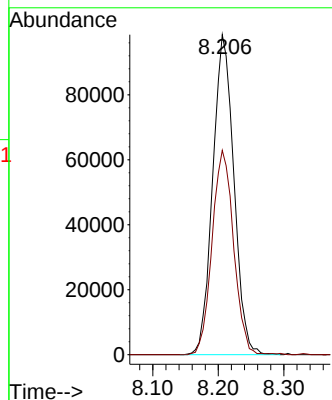
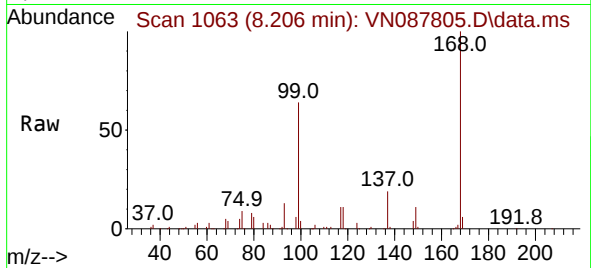




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

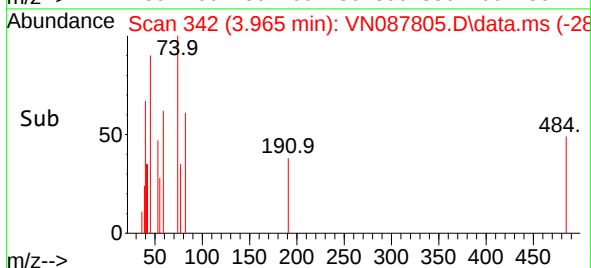
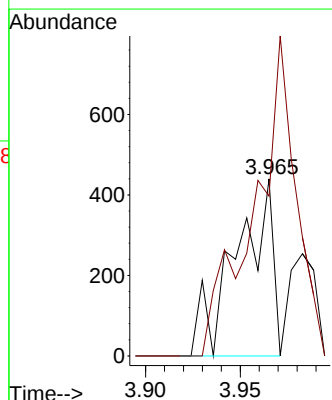
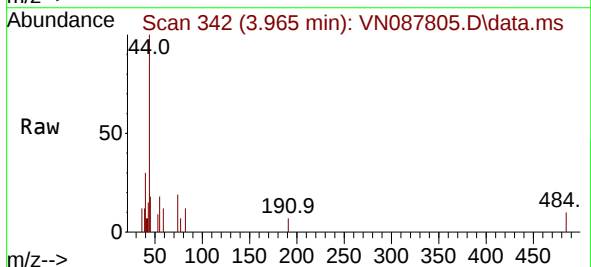
Instrument :
MSVOA_N
ClientSampleId :
MW4I

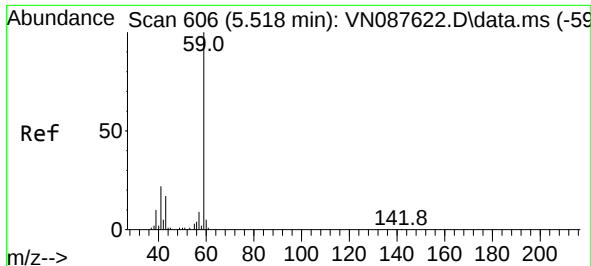
Tgt Ion:168 Resp: 220322
Ion Ratio Lower Upper
168 100
99 63.8 57.2 85.8



#8
Diethyl Ether
Concen: 0.250 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

Tgt Ion: 74 Resp: 594
Ion Ratio Lower Upper
74 100
45 204.2 50.6 151.9#

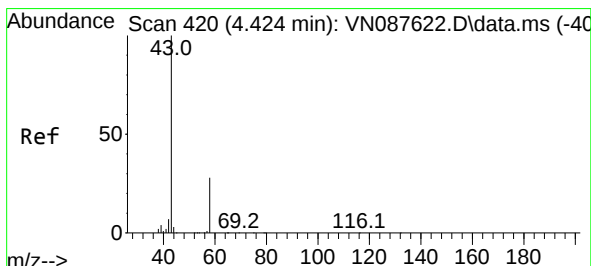
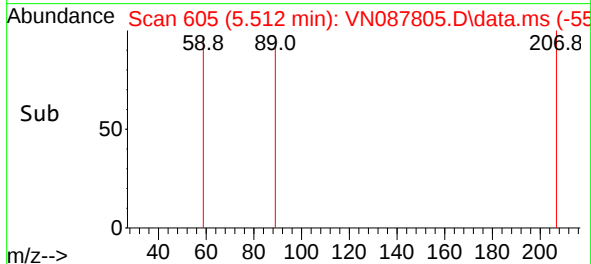
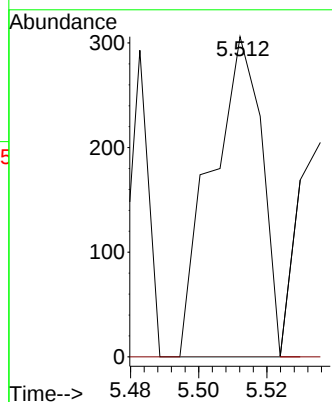
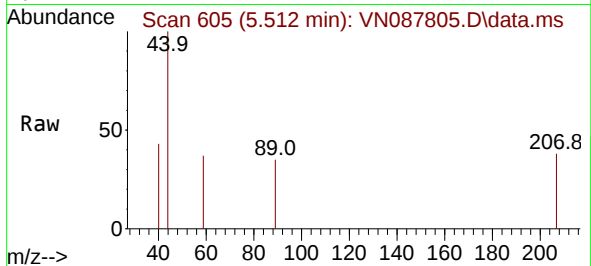




#11
Tert butyl alcohol
Concen: 0.401 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

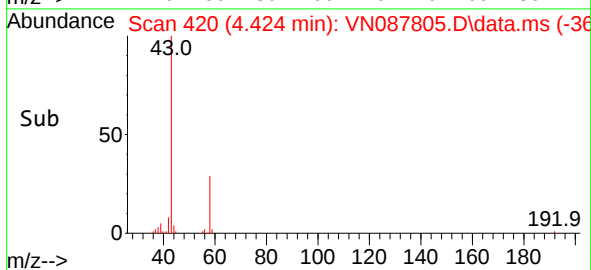
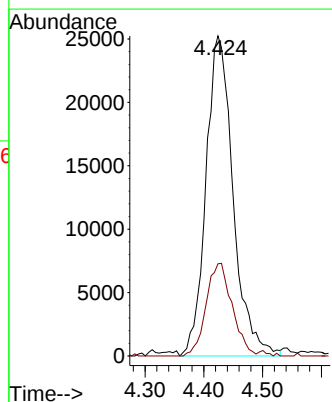
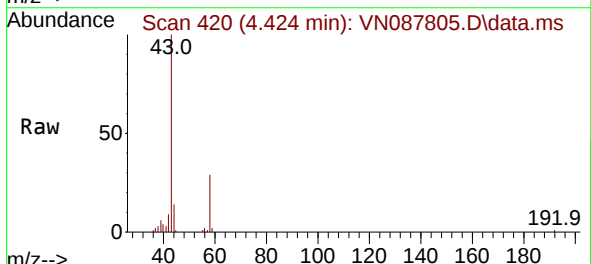
Instrument :
MSVOA_N
ClientSampleId :
MW4I

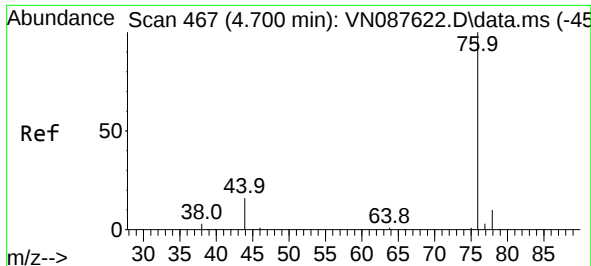
Tgt Ion: 59 Resp: 314
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#16
Acetone
Concen: 32.952 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

Tgt Ion: 43 Resp: 80974
Ion Ratio Lower Upper
43 100
58 28.8 22.6 33.8

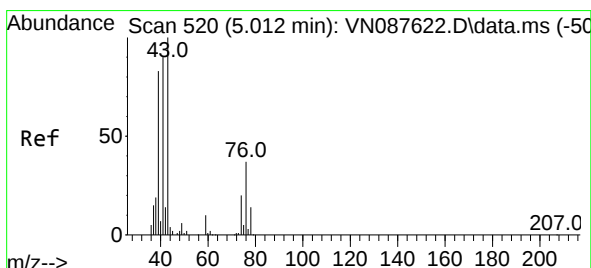
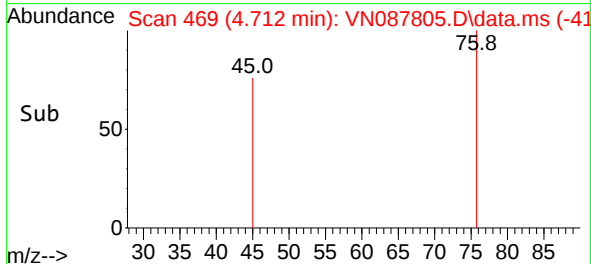
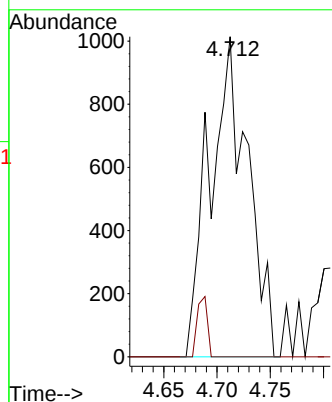
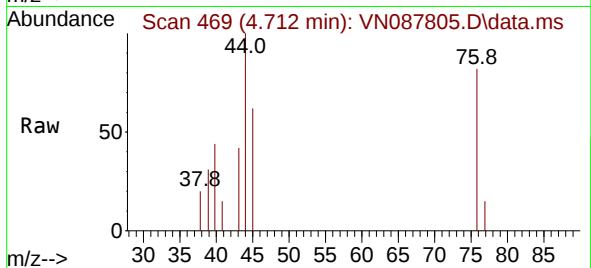




#17
Carbon Disulfide
Concen: 0.289 ug/l
RT: 4.712 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

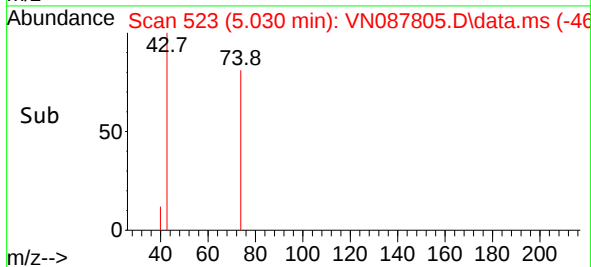
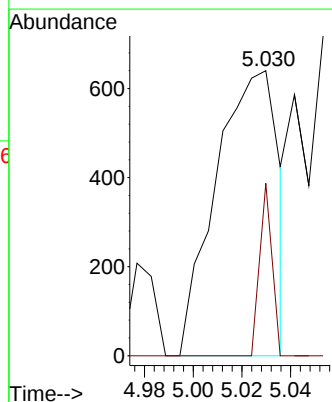
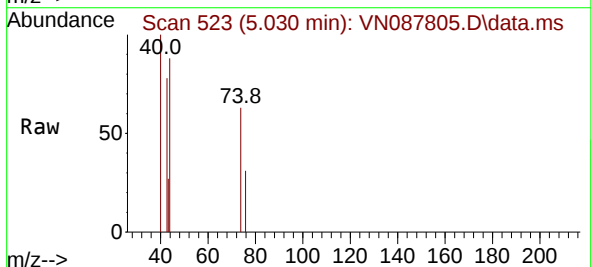
Instrument :
MSVOA_N
ClientSampleId :
MW4I

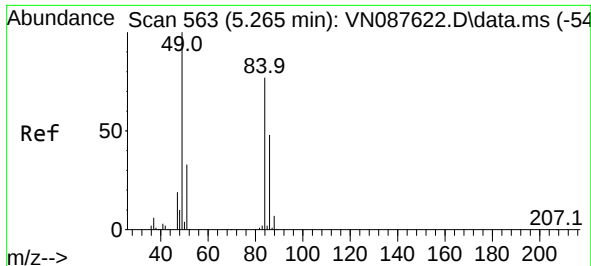
Tgt Ion: 76 Resp: 2523
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 0.222 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.018 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

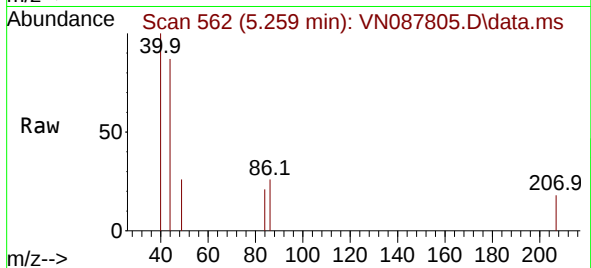
Tgt Ion: 43 Resp: 1142
Ion Ratio Lower Upper
43 100
74 12.0 17.6 26.4#



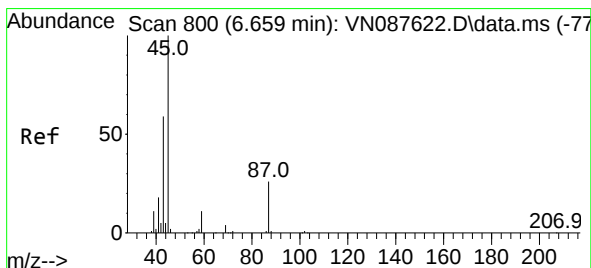
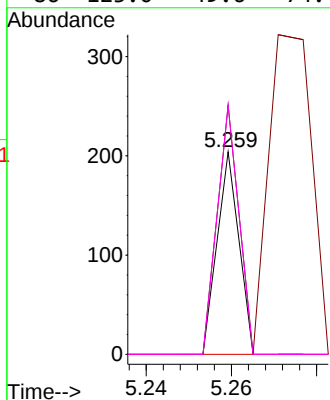
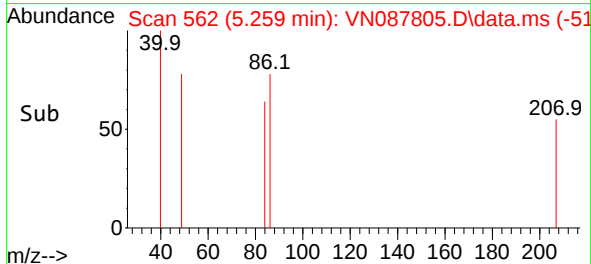


#20
Methylene Chloride
Concen: Below Cal
RT: 5.259 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

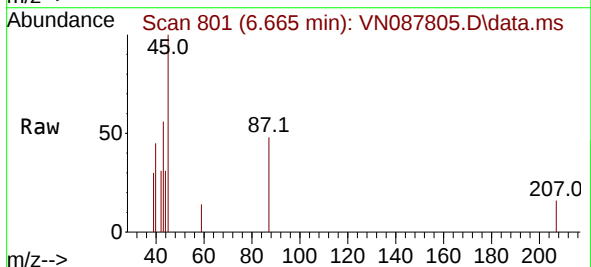
Instrument :
MSVOA_N
ClientSampleId :
MW4I



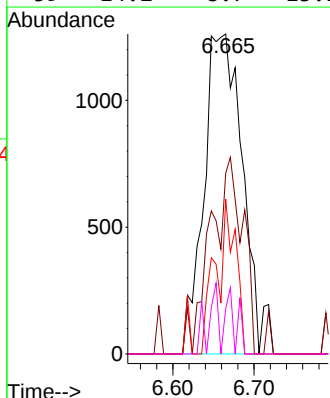
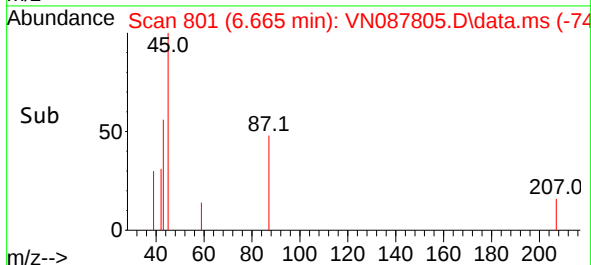
Tgt Ion: 84 Resp: 72
Ion Ratio Lower Upper
84 100
49 123.0 103.4 155.2
51 0.0 33.8 50.8#
86 123.0 49.6 74.4#

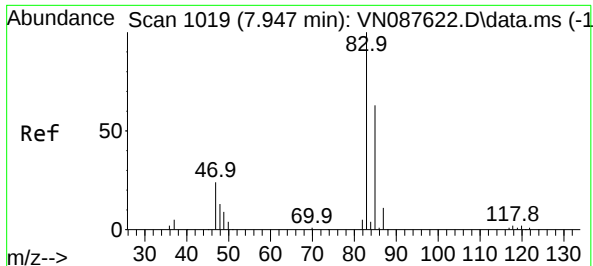


#22
Diisopropyl ether
Concen: 0.339 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.006 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51



Tgt Ion: 45 Resp: 4214
Ion Ratio Lower Upper
45 100
43 56.5 47.7 71.5
87 48.4 21.4 32.0#
59 14.2 8.7 13.1#





#30

Chloroform

Concen: 0.744 ug/l

RT: 7.941 min Scan# 1018

Delta R.T. -0.006 min

Lab File: VN087805.D

Acq: 11 Sep 2025 17:51

Instrument :

MSVOA_N

ClientSampleId :

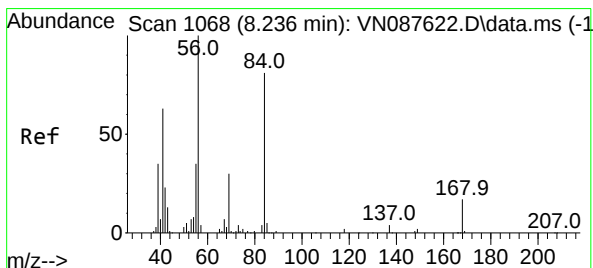
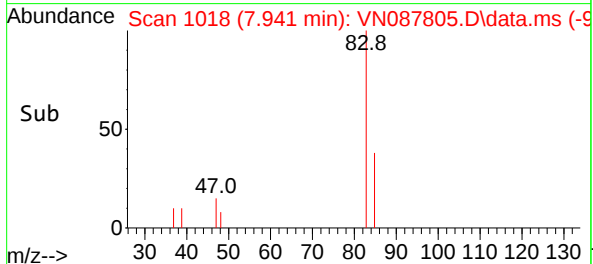
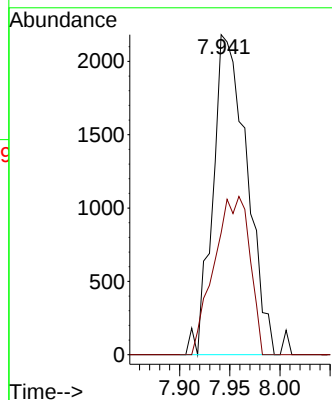
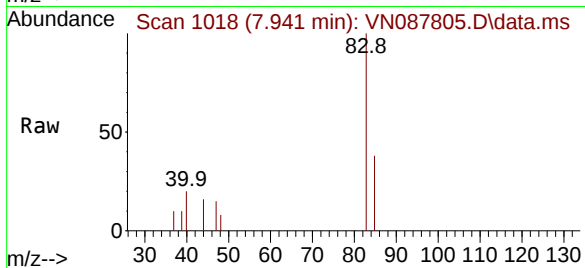
MW4I

Tgt Ion: 83 Resp: 5171

Ion Ratio Lower Upper

83 100

85 38.1 50.7 76.1#



#31

Cyclohexane

Concen: 1.193 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.024 min

Lab File: VN087805.D

Acq: 11 Sep 2025 17:51

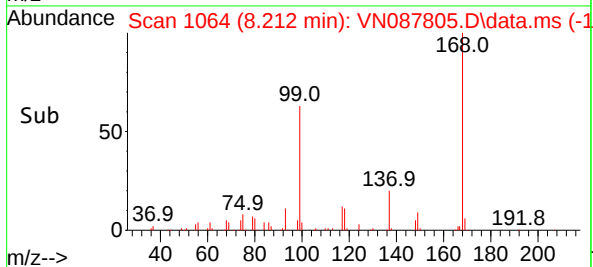
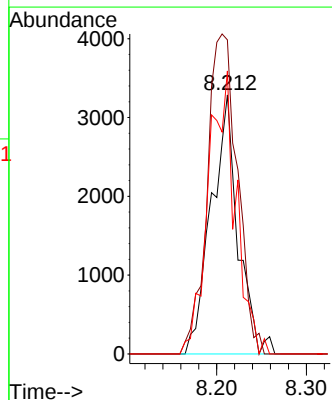
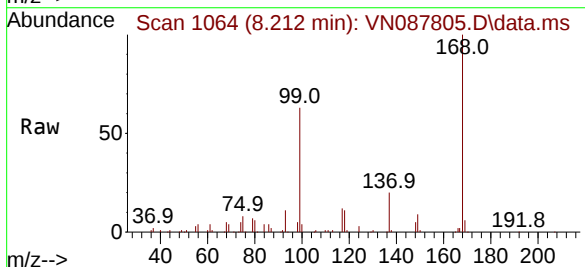
Tgt Ion: 56 Resp: 6775

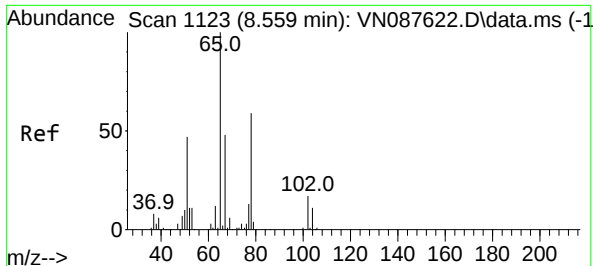
Ion Ratio Lower Upper

56 100

69 121.2 23.7 35.5#

84 109.3 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 53.775 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.006 min

Lab File: VN087805.D

Acq: 11 Sep 2025 17:51

Instrument :

MSVOA_N

ClientSampleId :

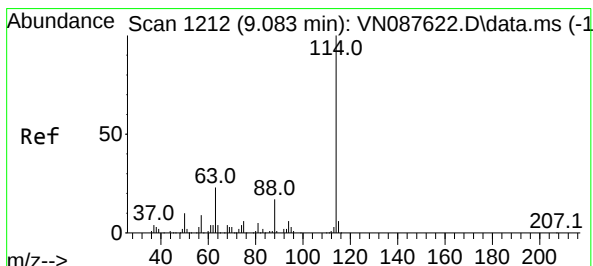
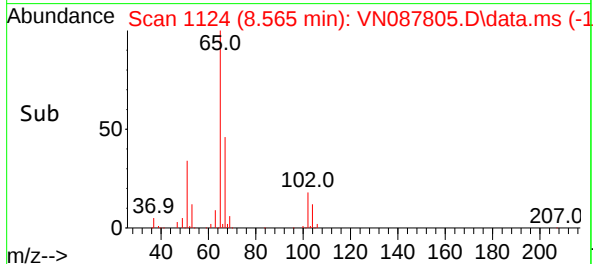
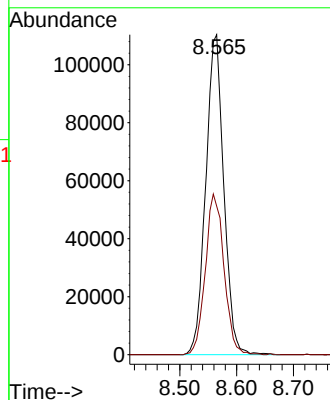
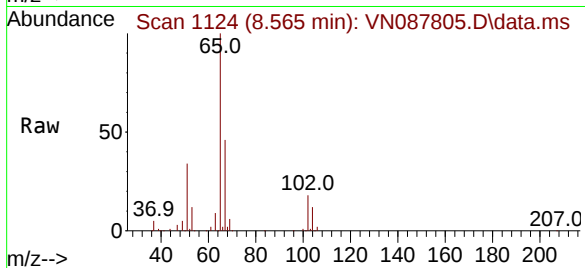
MW4I

Tgt Ion: 65 Resp: 242746

Ion Ratio Lower Upper

65 100

67 52.0 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN087805.D

Acq: 11 Sep 2025 17:51

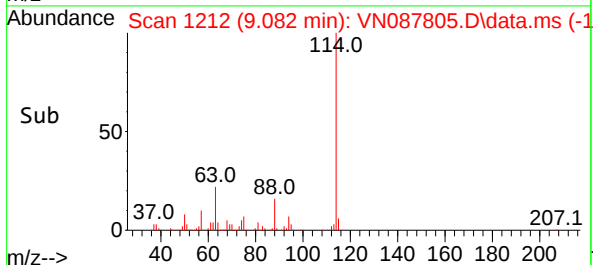
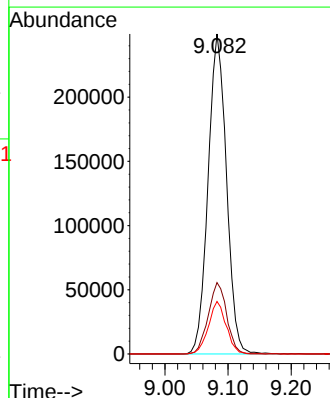
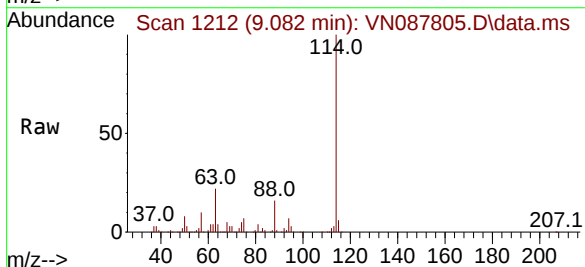
Tgt Ion: 114 Resp: 503440

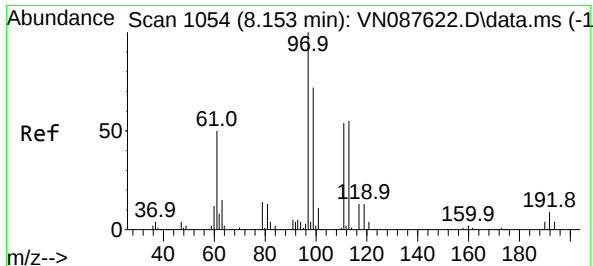
Ion Ratio Lower Upper

114 100

63 22.3 0.0 45.2

88 16.4 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.217 ug/l

RT: 8.147 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN087805.D

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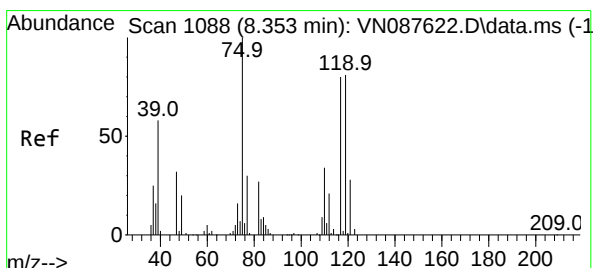
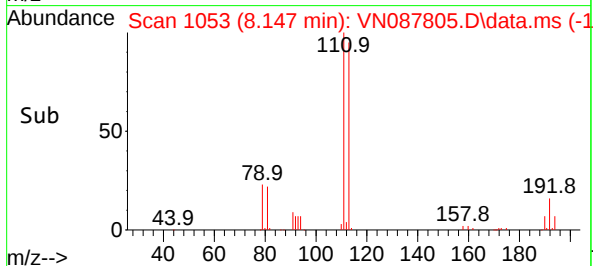
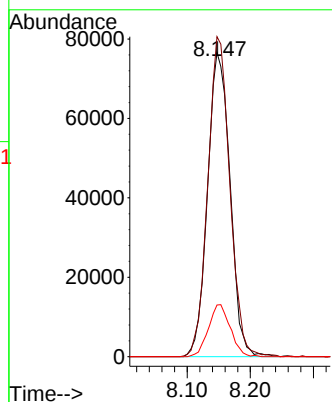
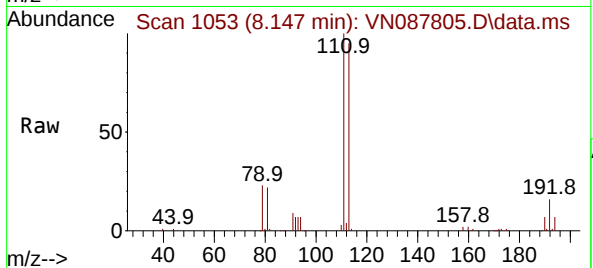
Tgt Ion:113 Resp: 189798

Ion Ratio Lower Upper

113 100

111 102.9 82.8 124.2

192 16.6 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.738 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087805.D

Acq: 11 Sep 2025 17:51

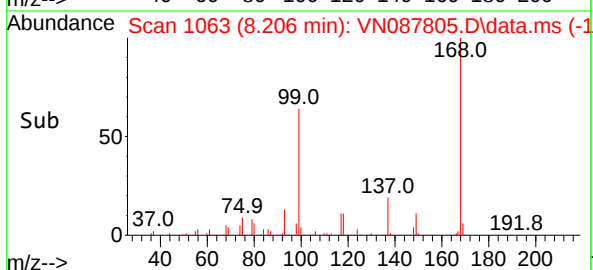
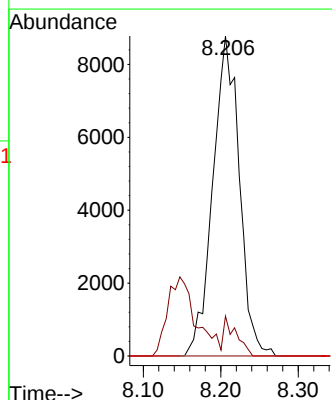
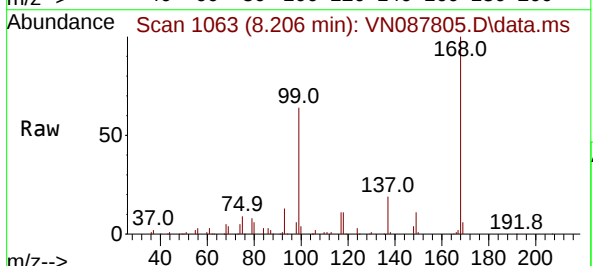
Tgt Ion: 75 Resp: 20845

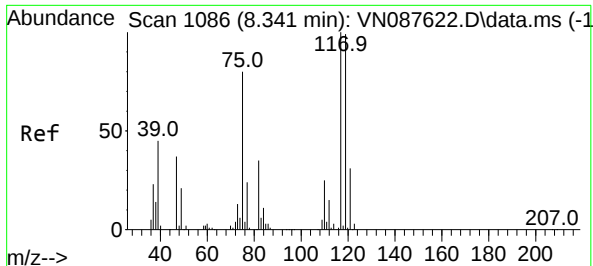
Ion Ratio Lower Upper

75 100

110 5.8 15.9 47.6#

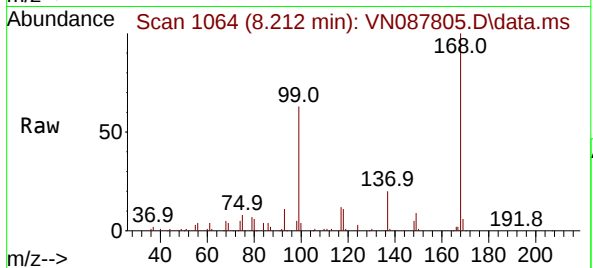
77 0.0 24.4 36.6#



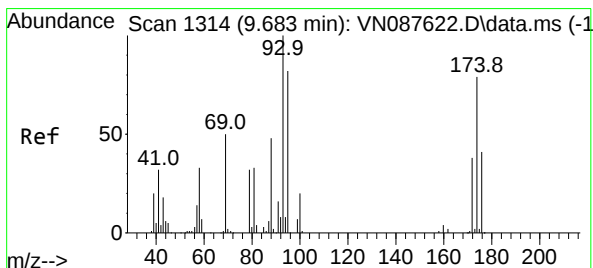
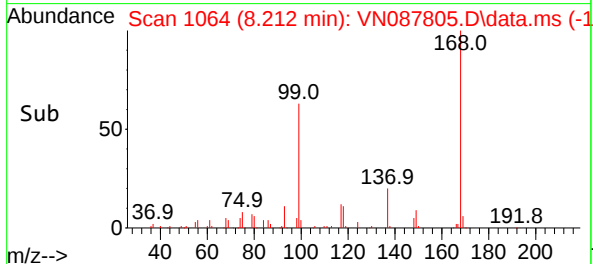
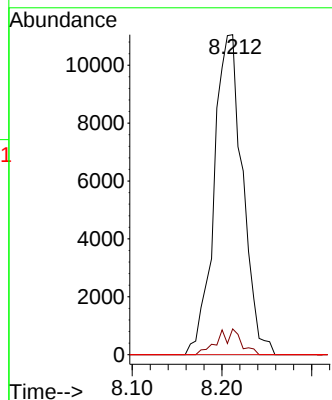


#38
Carbon Tetrachloride
Concen: 4.443 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.129 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

Instrument :
MSVOA_N
ClientSampleId :
MW4I

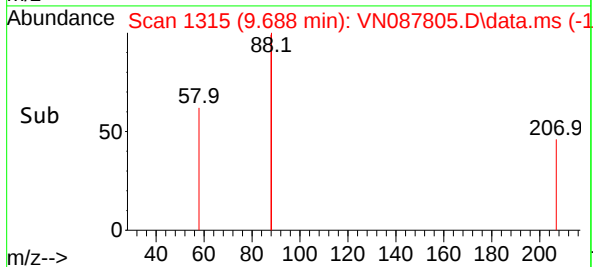
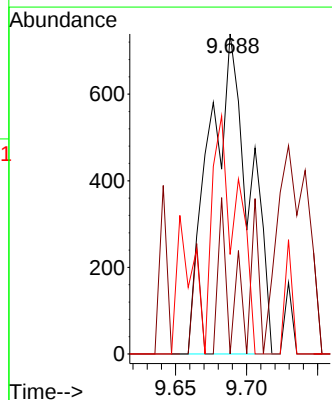
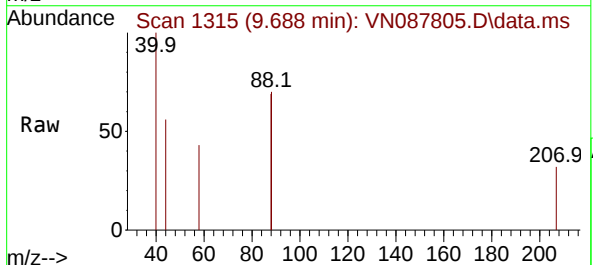


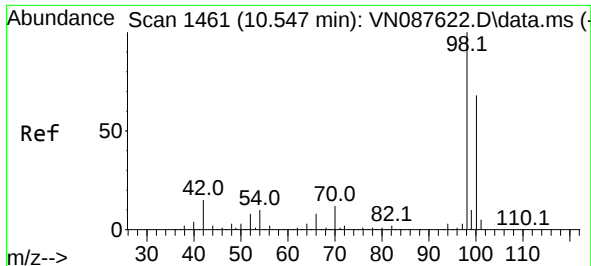
Tgt Ion:117 Resp: 24464
Ion Ratio Lower Upper
117 100
119 8.1 79.0 118.6#
121 0.0 25.0 37.6#



#49
1,4-Dioxane
Concen: 19.908 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

Tgt Ion: 88 Resp: 1452
Ion Ratio Lower Upper
88 100
43 8.7 0.0 0.0#
58 46.3 57.9 86.9#

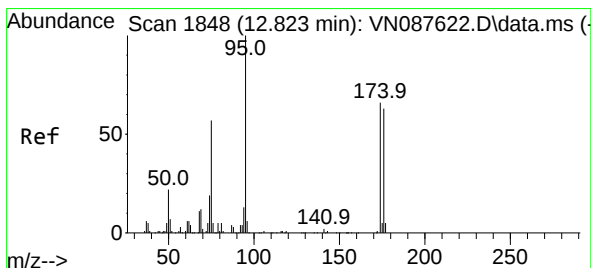
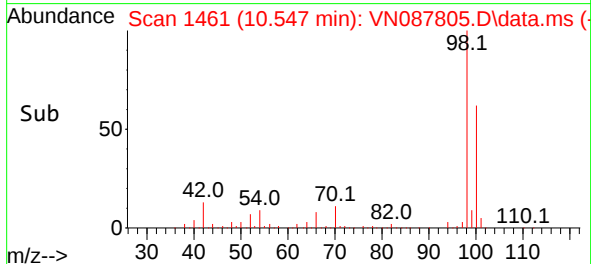
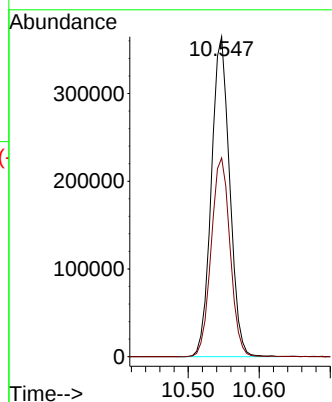
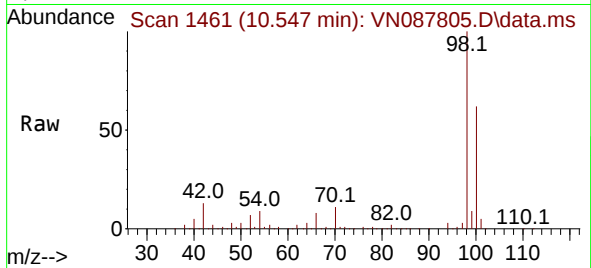




#50
Toluene-d8
Concen: 48.027 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

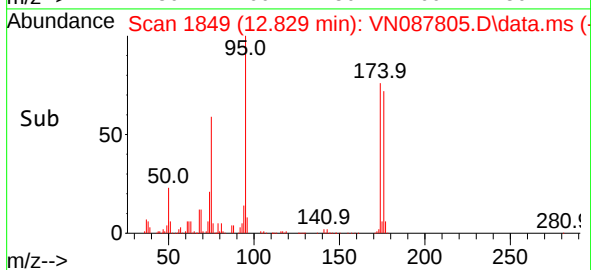
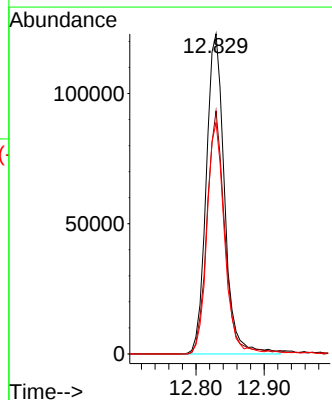
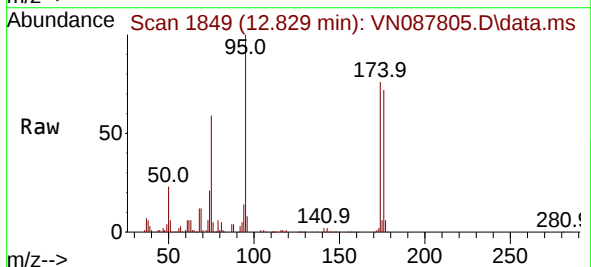
Instrument :
MSVOA_N
ClientSampleId :
MW4I

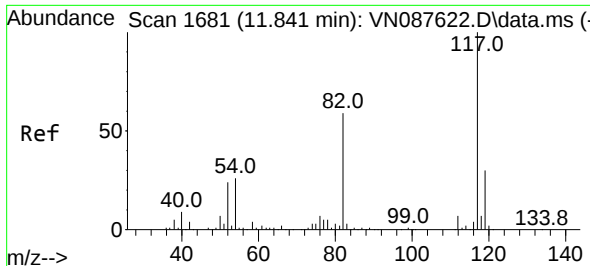
Tgt Ion: 98 Resp: 653379
Ion Ratio Lower Upper
98 100
100 63.9 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 47.276 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

Tgt Ion: 95 Resp: 228728
Ion Ratio Lower Upper
95 100
174 74.0 0.0 138.4
176 69.5 0.0 132.6

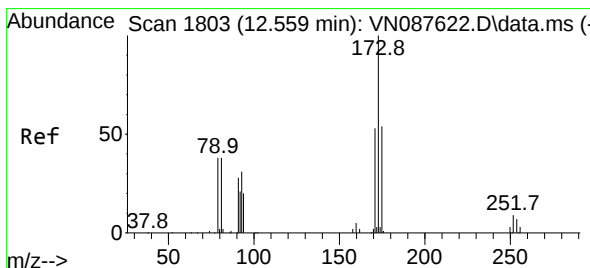
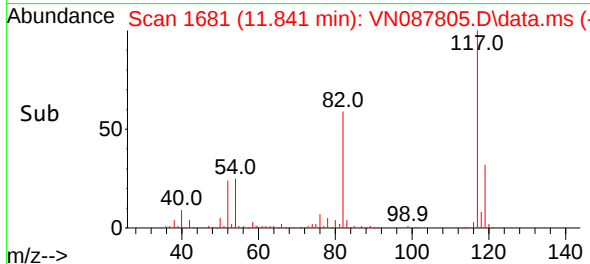
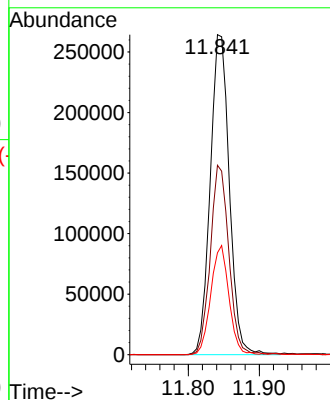
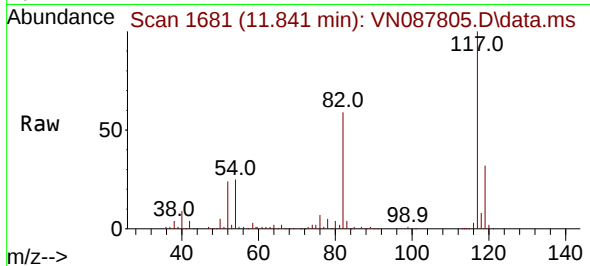




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

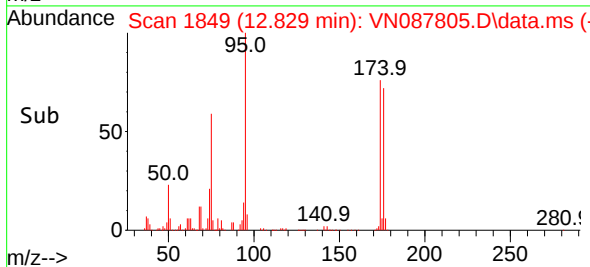
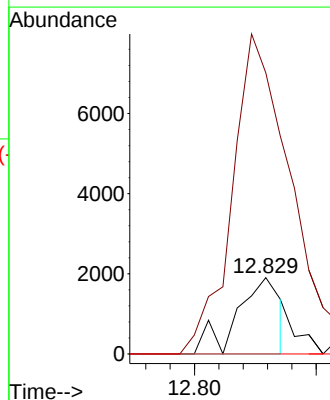
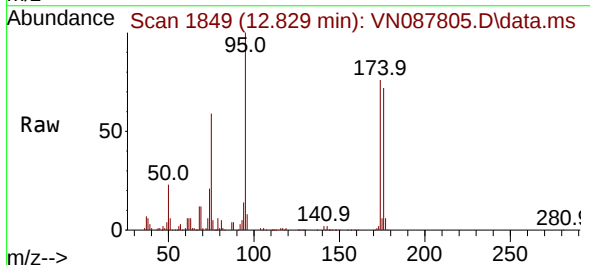
Instrument :
MSVOA_N
ClientSampleId :
MW4I

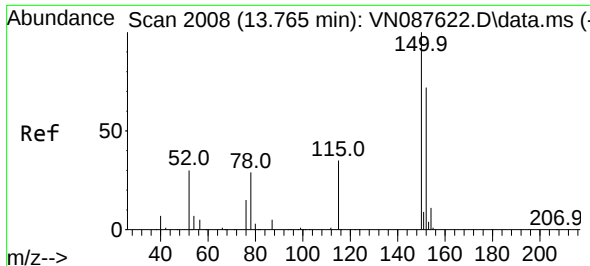
Tgt Ion:117 Resp: 493455
Ion Ratio Lower Upper
117 100
82 59.2 47.4 71.2
119 31.9 24.3 36.5



#71
Bromoform
Concen: 0.758 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.271 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

Tgt Ion:173 Resp: 2368
Ion Ratio Lower Upper
173 100
175 437.3 24.9 74.6#
254 0.0 0.1 0.1#

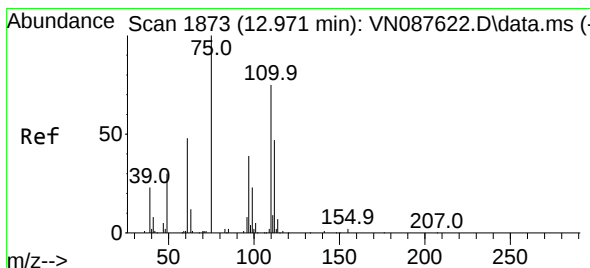
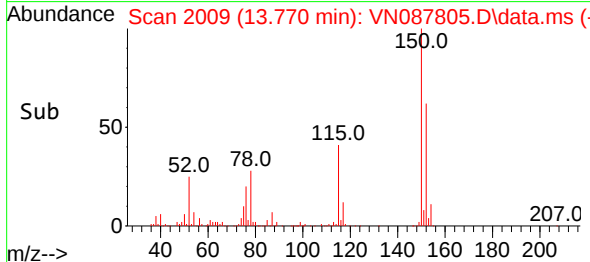
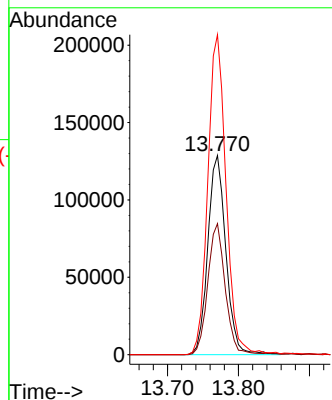
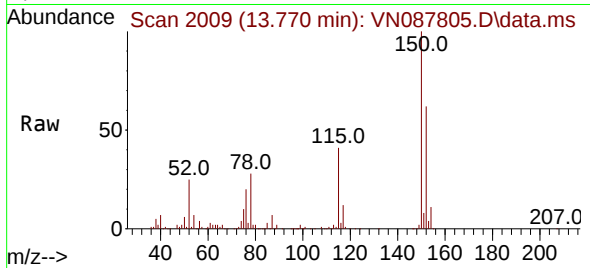




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2008
 Delta R.T. 0.006 min
 Lab File: VN087805.D
 Acq: 11 Sep 2025 17:51

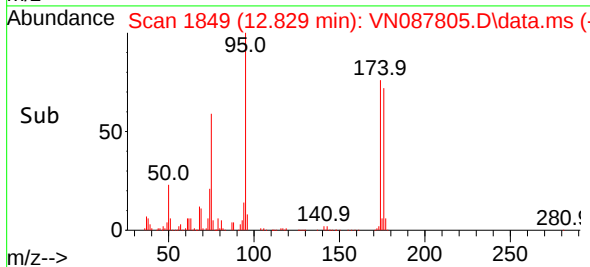
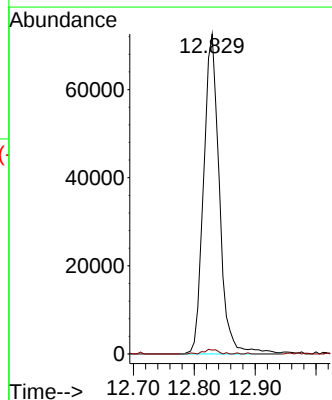
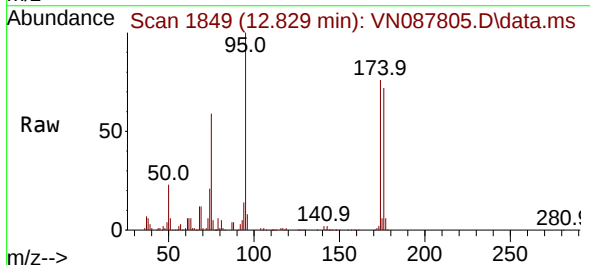
Instrument :
 MSVOA_N
 ClientSampleId :
 MW4I

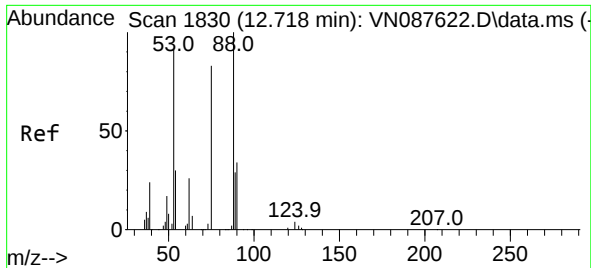
Tgt Ion:152 Resp: 228190
 Ion Ratio Lower Upper
 152 100
 115 63.8 32.3 96.8
 150 162.4 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 24.424 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN087805.D
 Acq: 11 Sep 2025 17:51

Tgt Ion: 75 Resp: 130696
 Ion Ratio Lower Upper
 75 100
 77 1.3 89.1 267.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 64.659 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN087805.D
Acq: 11 Sep 2025 17:51

Instrument :
MSVOA_N
ClientSampleId :
MW4I

Tgt Ion: 75 Resp: 130696
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#

