

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062025\
 Data File : VN087144.D
 Acq On : 20 Jun 2025 16:52
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Jun 20 23:09:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

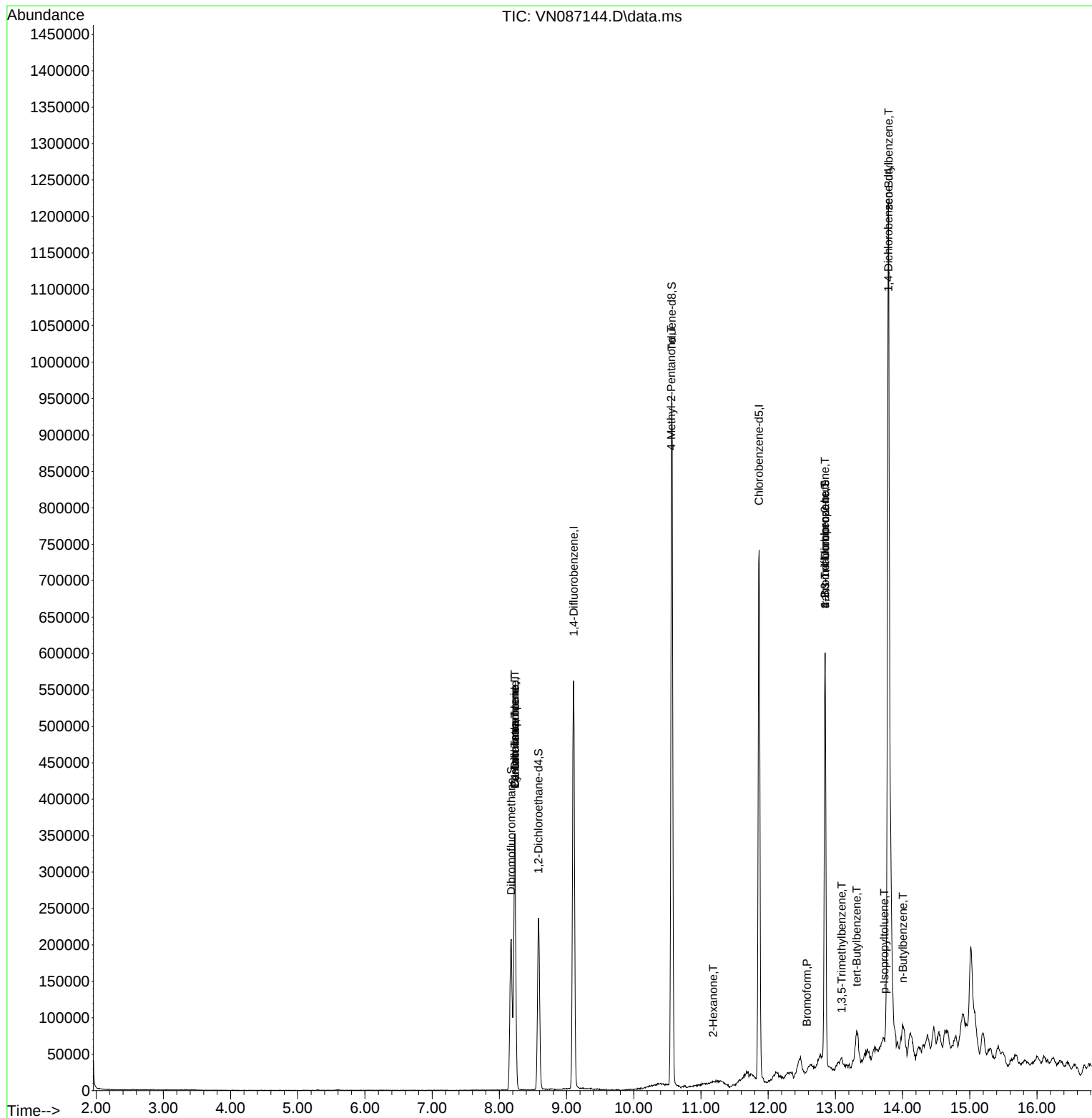
Internal Standards						
1) Pentafluorobenzene	8.230	168	264709	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	547394	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	477801	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	250993	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	188541	53.198	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 106.400%		
35) Dibromofluoromethane	8.177	113	160091	49.350	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 98.700%		
50) Toluene-d8	10.565	98	715388	55.707	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 111.420%		
62) 4-Bromofluorobenzene	12.847	95	227983	47.783	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 95.560%		
Target Compounds						
					Qvalue	
31) Cyclohexane	8.230	56	4341	0.755	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	18518	3.831	ug/l #	48
38) Carbon Tetrachloride	8.230	117	26333	5.549	ug/l #	17
51) 4-Methyl-2-Pentanone	10.559	43	2457	0.413	ug/l #	1
59) 2-Hexanone	11.182	43	1126	0.294	ug/l #	20
71) Bromoform	12.576	173	1113	0.443	ug/l #	29
76) 1,2,3-Trichloropropane	12.847	75	104916	17.585	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.094	105	3043	0.202	ug/l #	43
81) trans-1,4-Dichloro-2-b...	12.847	75	104916	40.480	ug/l #	16
83) tert-Butylbenzene	13.317	119	11840	0.857	ug/l	72
85) sec-Butylbenzene	13.794	105	24881	1.240	ug/l	92
86) p-Isopropyltoluene	13.729	119	12780	0.770	ug/l #	54
89) n-Butylbenzene	14.006	91	3329	0.207	ug/l #	36

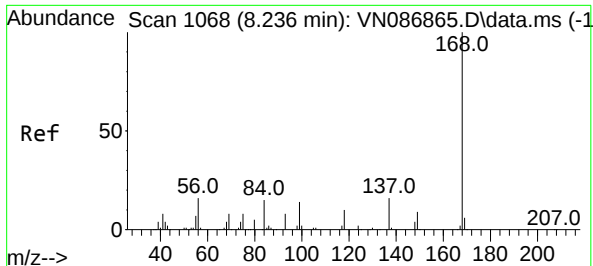
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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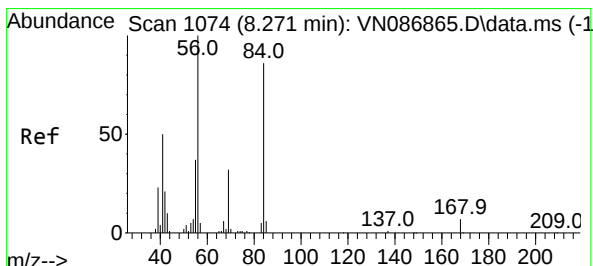
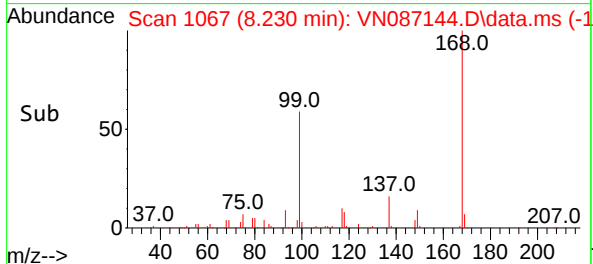
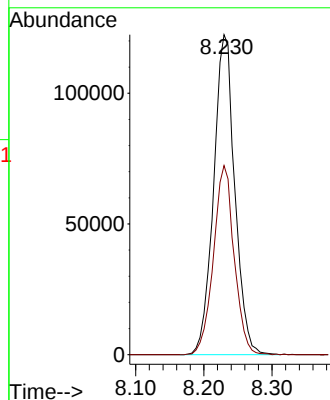
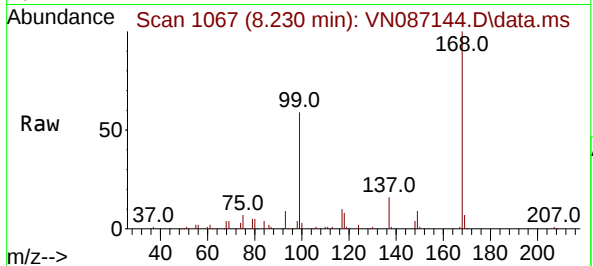




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.006 min
Lab File: VN087144.D
Acq: 20 Jun 2025 16:52

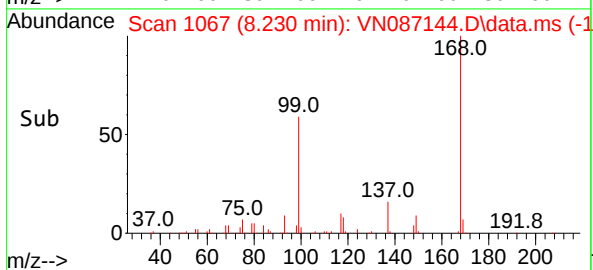
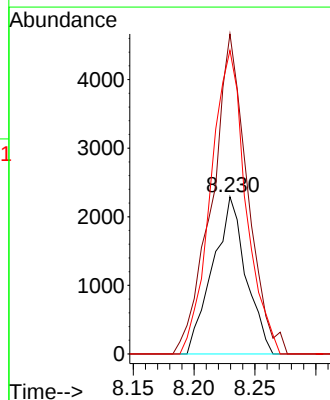
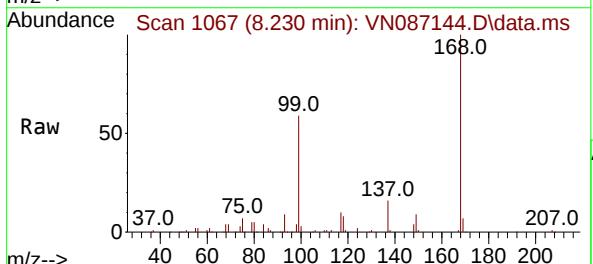
Instrument :
MSVOA_N
ClientSampleId :
IBLK

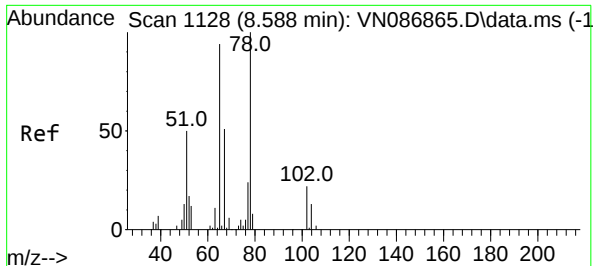
Tgt Ion:168 Resp: 264709
Ion Ratio Lower Upper
168 100
99 59.1 49.1 73.7



#31
Cyclohexane
Concen: 0.755 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN087144.D
Acq: 20 Jun 2025 16:52

Tgt Ion: 56 Resp: 4341
Ion Ratio Lower Upper
56 100
69 196.0 25.4 38.0#
84 193.2 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 53.198 ug/l

RT: 8.582 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN087144.D

Acq: 20 Jun 2025 16:52

Instrument :

MSVOA_N

ClientSampleId :

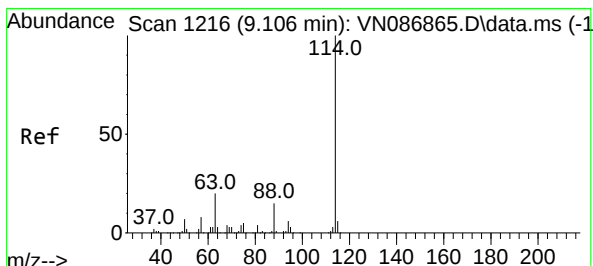
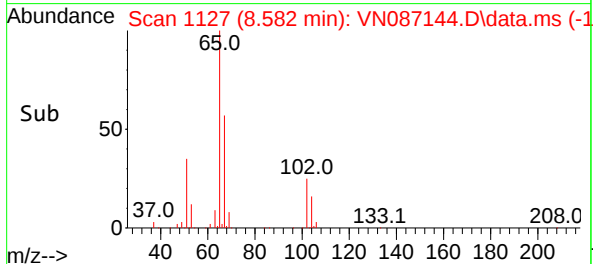
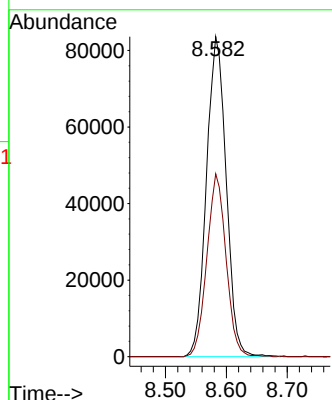
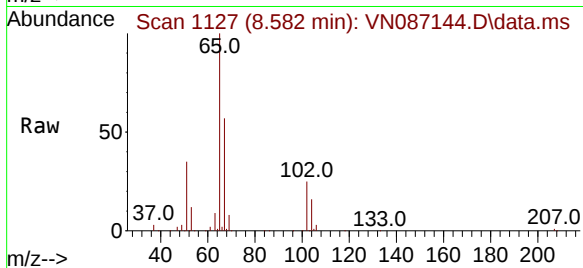
IBLK

Tgt Ion: 65 Resp: 188541

Ion Ratio Lower Upper

65 100

67 55.4 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087144.D

Acq: 20 Jun 2025 16:52

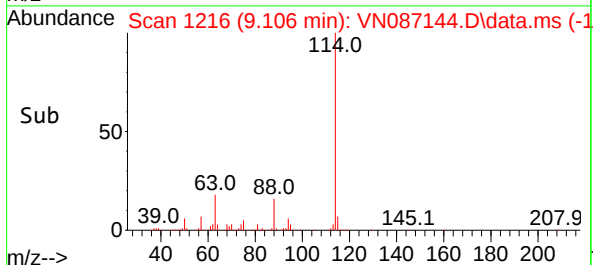
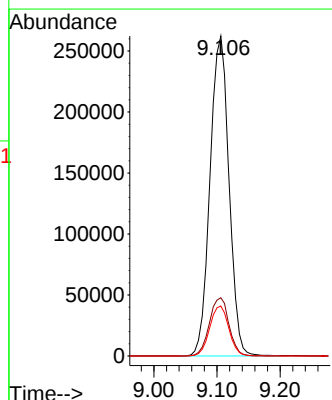
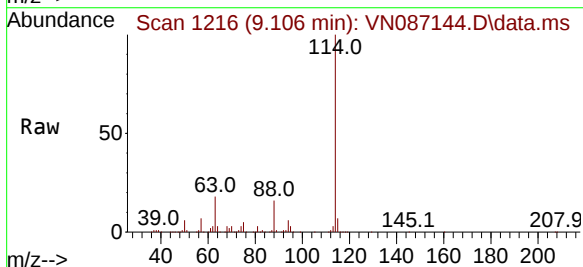
Tgt Ion: 114 Resp: 547394

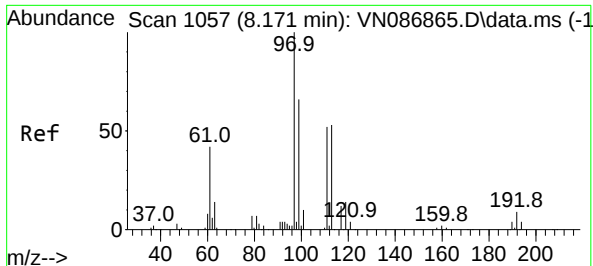
Ion Ratio Lower Upper

114 100

63 18.2 0.0 39.6

88 15.6 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.350 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN087144.D

Acq: 20 Jun 2025 16:52

Instrument :

MSVOA_N

ClientSampleId :

IBLK

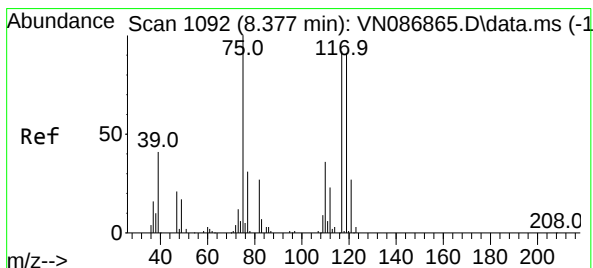
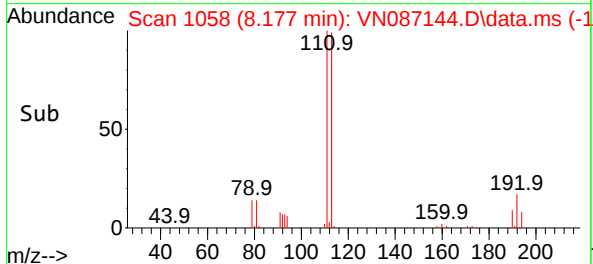
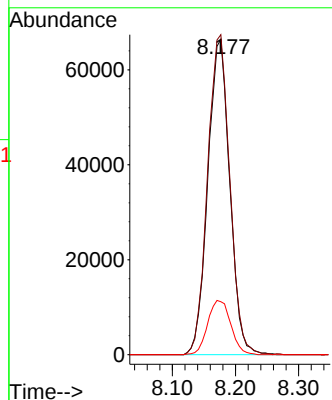
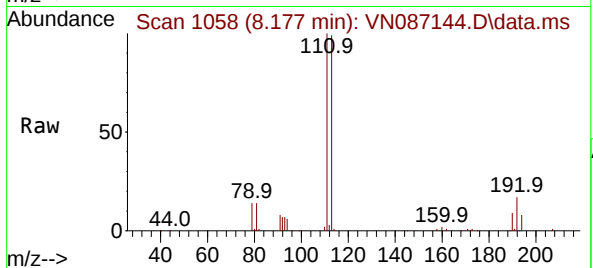
Tgt Ion:113 Resp: 160091

Ion Ratio Lower Upper

113 100

111 102.9 84.2 126.2

192 18.1 14.2 21.4



#36

1,1-Dichloropropene

Concen: 3.831 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087144.D

Acq: 20 Jun 2025 16:52

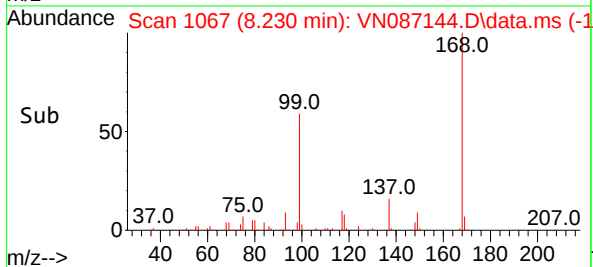
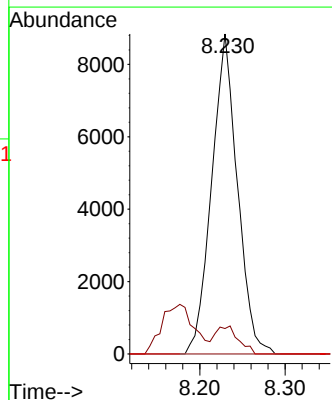
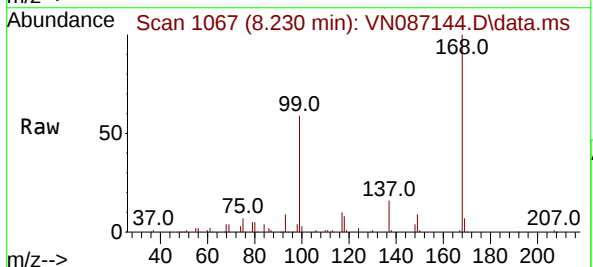
Tgt Ion: 75 Resp: 18518

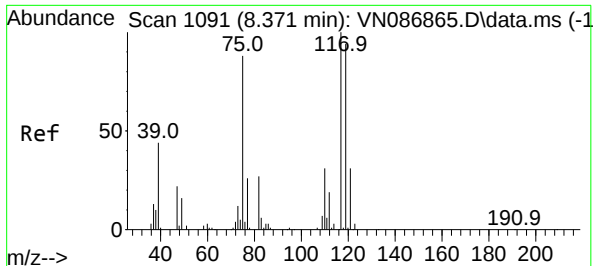
Ion Ratio Lower Upper

75 100

110 7.7 17.6 52.9#

77 0.0 25.3 37.9#

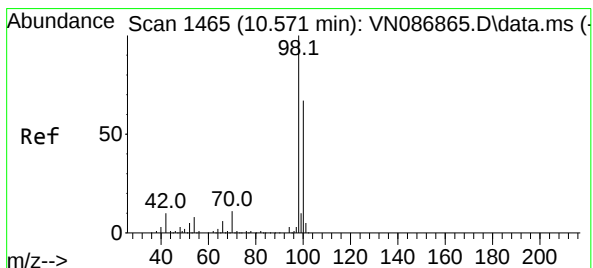
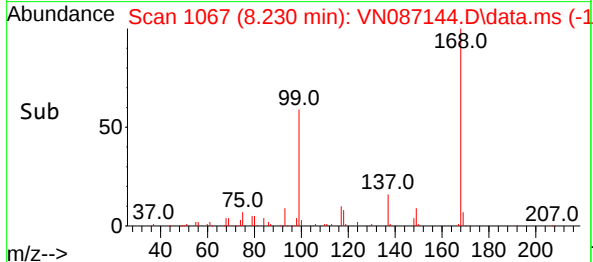
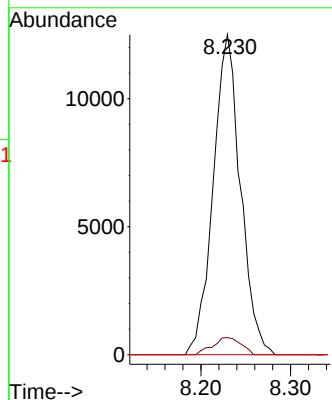
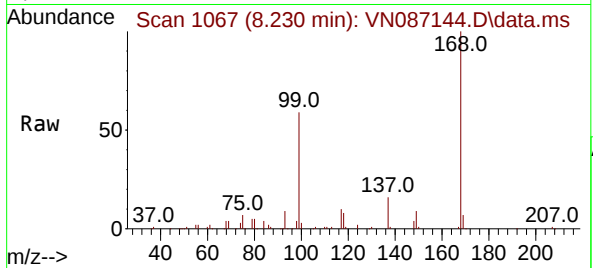




#38
Carbon Tetrachloride
Concen: 5.549 ug/l
RT: 8.230 min Scan# 1091
Delta R.T. -0.141 min
Lab File: VN087144.D
Acq: 20 Jun 2025 16:52

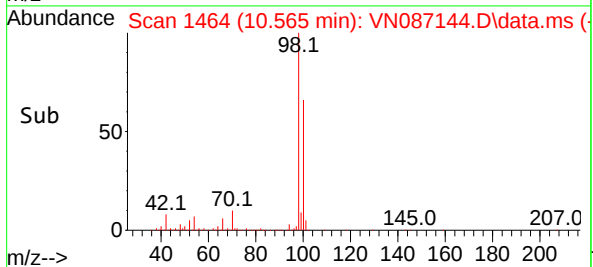
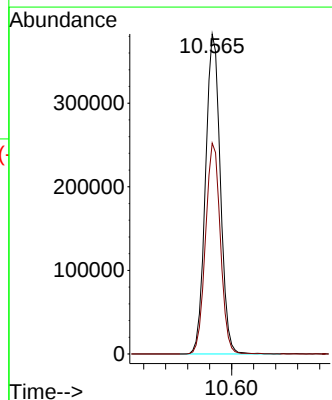
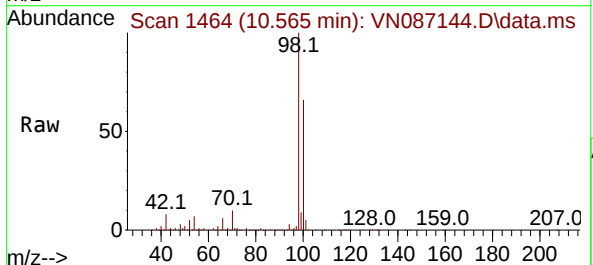
Instrument :
MSVOA_N
ClientSampleId :
IBLK

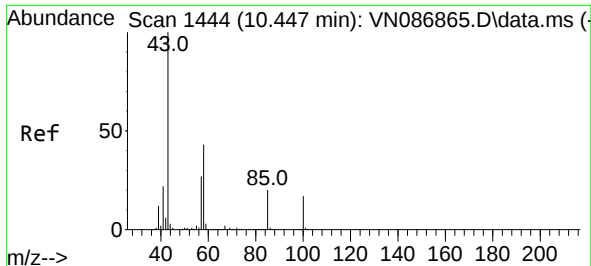
Tgt Ion:117 Resp: 26333
Ion Ratio Lower Upper
117 100
119 5.3 75.0 112.6#
121 0.0 24.9 37.3#



#50
Toluene-d8
Concen: 55.707 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087144.D
Acq: 20 Jun 2025 16:52

Tgt Ion: 98 Resp: 715388
Ion Ratio Lower Upper
98 100
100 66.1 53.4 80.0

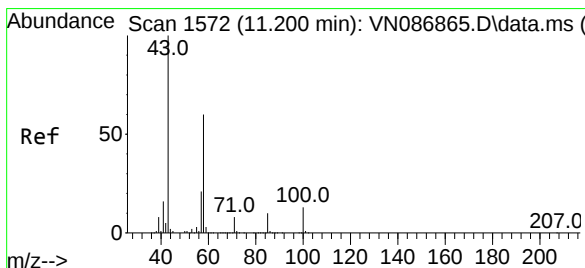
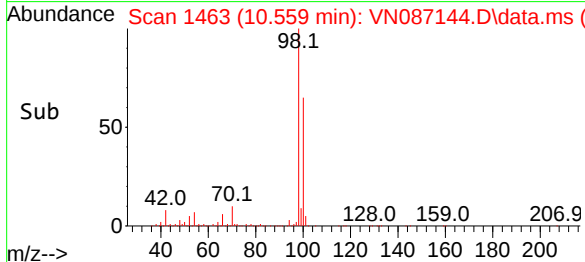
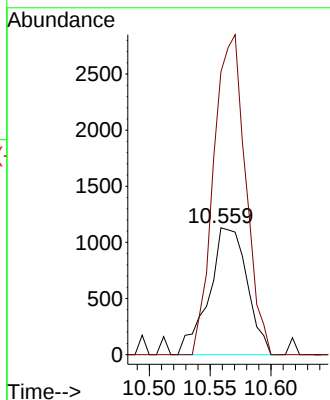
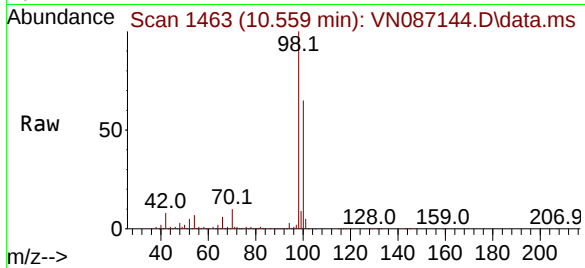




#51
4-Methyl-2-Pentanone
Concen: 0.413 ug/l
RT: 10.559 min Scan# 1444
Delta R.T. 0.112 min
Lab File: VN087144.D
Acq: 20 Jun 2025 16:52

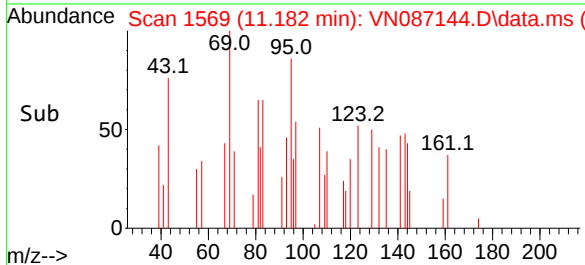
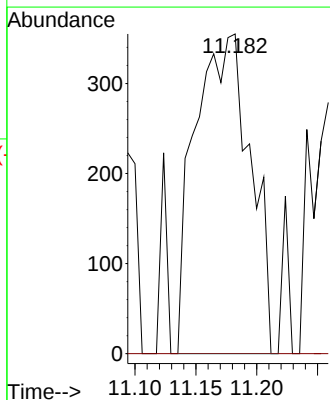
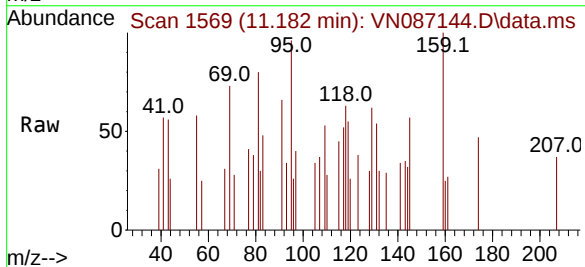
Instrument :
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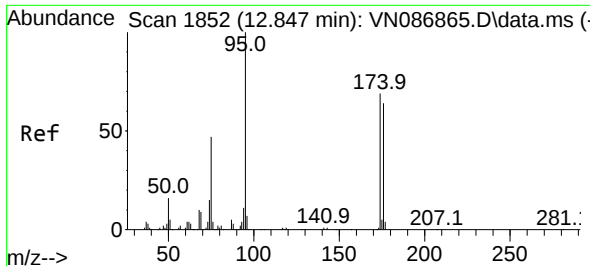
Tgt Ion: 43 Resp: 2457
Ion Ratio Lower Upper
43 100
58 211.9 34.2 51.4#



#59
2-Hexanone
Concen: 0.294 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. -0.018 min
Lab File: VN087144.D
Acq: 20 Jun 2025 16:52

Tgt Ion: 43 Resp: 1126
Ion Ratio Lower Upper
43 100
58 0.0 30.4 91.3#

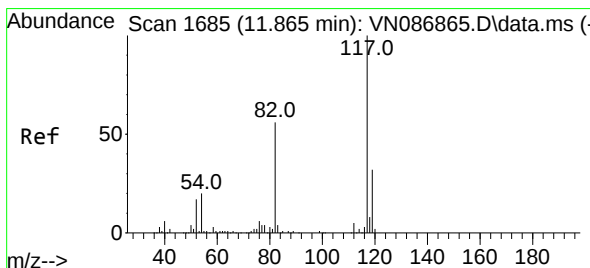
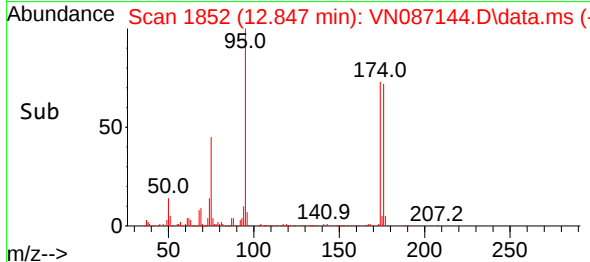
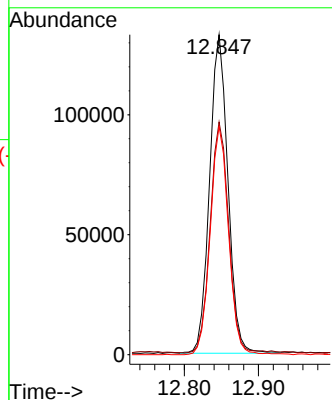
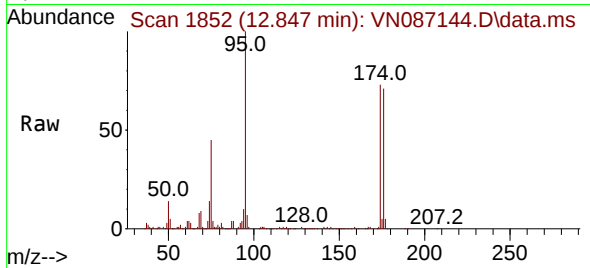




#62
4-Bromofluorobenzene
Concen: 47.783 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087144.D
Acq: 20 Jun 2025 16:52

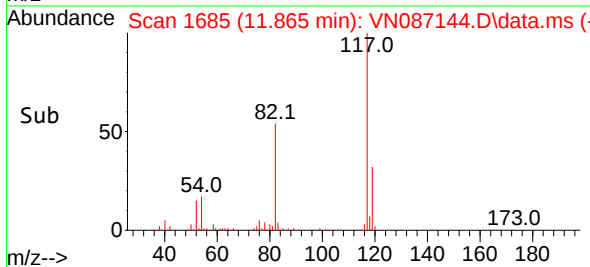
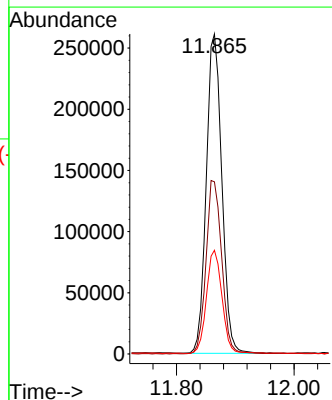
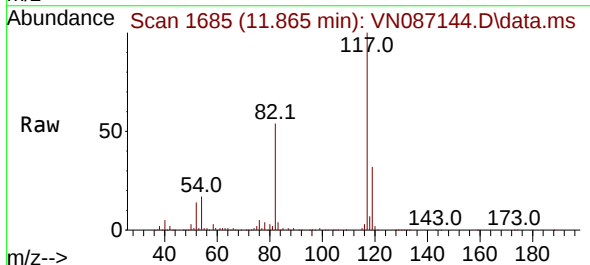
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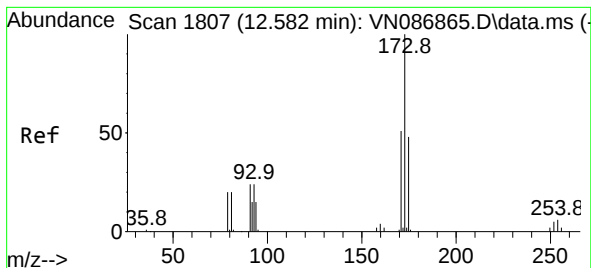
Tgt Ion: 95 Resp: 227983
Ion Ratio Lower Upper
95 100
174 73.8 0.0 141.8
176 71.8 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087144.D
Acq: 20 Jun 2025 16:52

Tgt Ion: 117 Resp: 477801
Ion Ratio Lower Upper
117 100
82 53.8 44.6 67.0
119 32.2 25.5 38.3





#71

Bromoform

Concen: 0.443 ug/l

RT: 12.576 min Scan# 1113

Delta R.T. -0.006 min

Lab File: VN087144.D

Acq: 20 Jun 2025 16:52

Instrument :

MSVOA_N

ClientSampleId :

IBLK

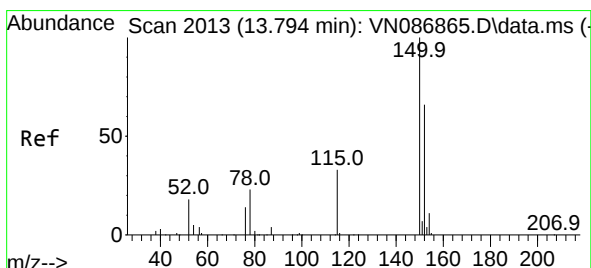
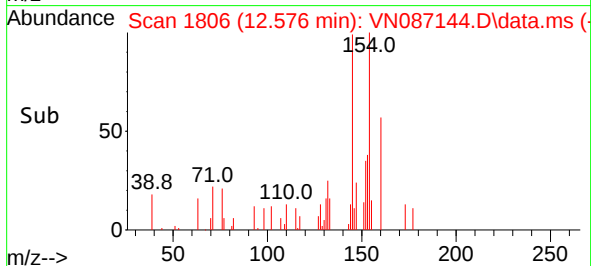
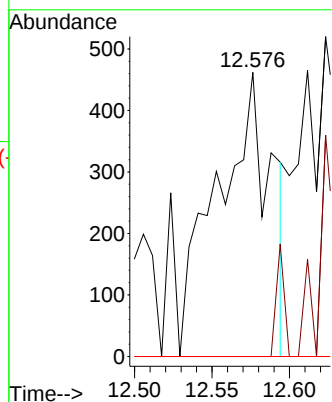
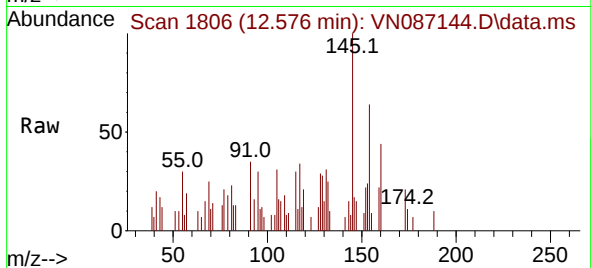
Tgt Ion:173 Resp: 1113

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.4#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN087144.D

Acq: 20 Jun 2025 16:52

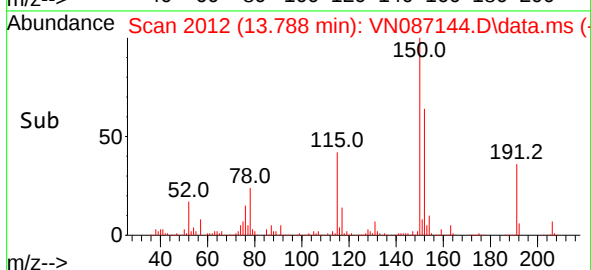
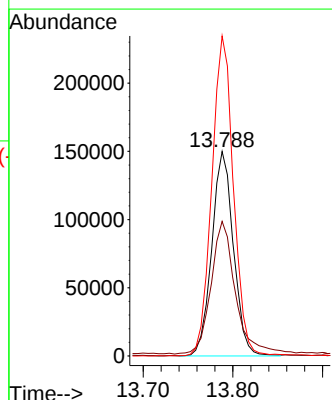
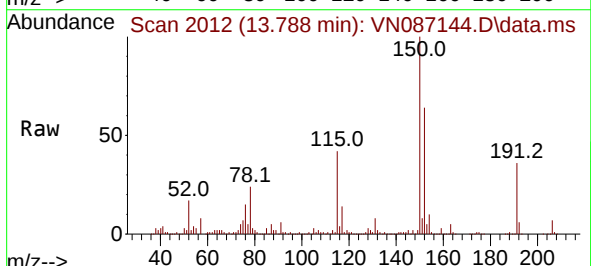
Tgt Ion:152 Resp: 250993

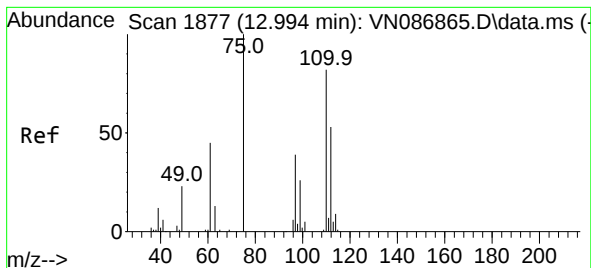
Ion Ratio Lower Upper

152 100

115 74.1 30.1 90.5

150 157.2 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 17.585 ug/l

RT: 12.847 min Scan# 1894

Delta R.T. -0.147 min

Lab File: VN087144.D

Acq: 20 Jun 2025 16:52

Instrument :

MSVOA_N

ClientSampleId :

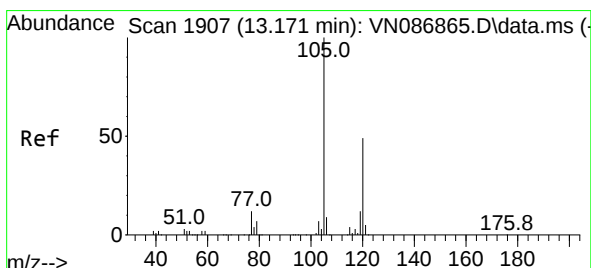
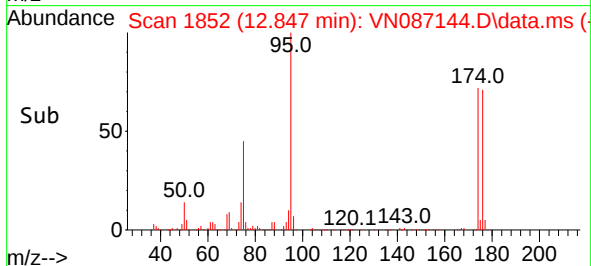
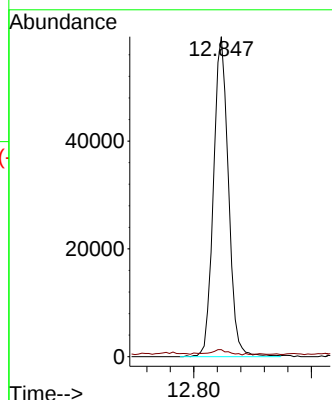
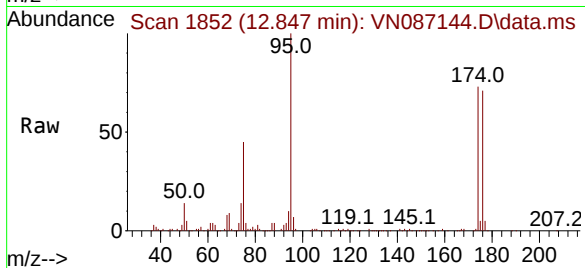
IBLK

Tgt Ion: 75 Resp: 104916

Ion Ratio Lower Upper

75 100

77 1.9 79.3 237.9#



#80

1,3,5-Trimethylbenzene

Concen: 0.202 ug/l

RT: 13.094 min Scan# 1894

Delta R.T. -0.077 min

Lab File: VN087144.D

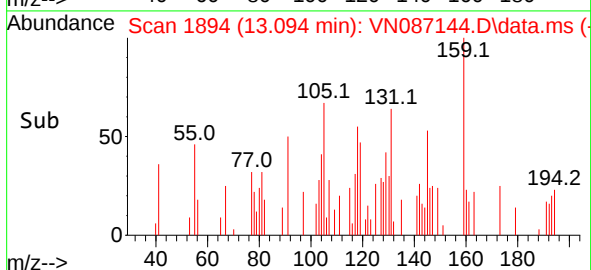
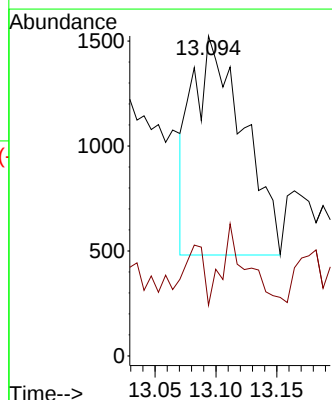
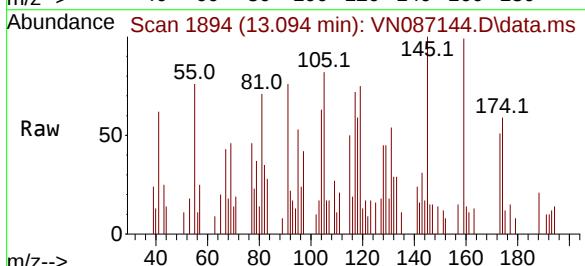
Acq: 20 Jun 2025 16:52

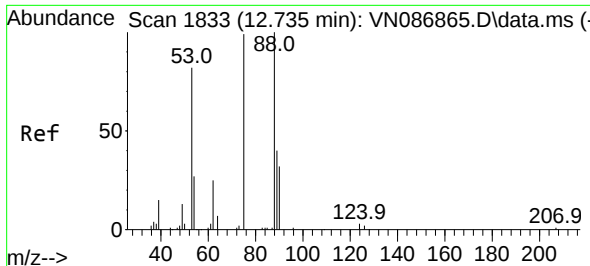
Tgt Ion: 105 Resp: 3043

Ion Ratio Lower Upper

105 100

120 10.4 24.9 74.6#

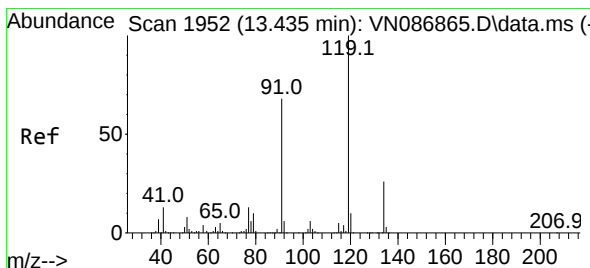
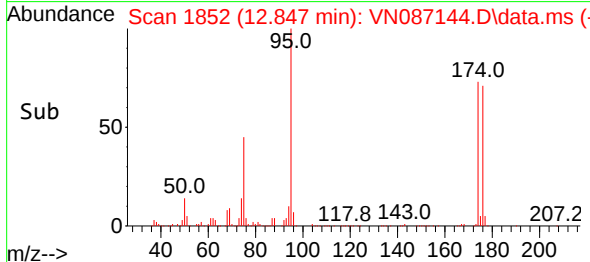
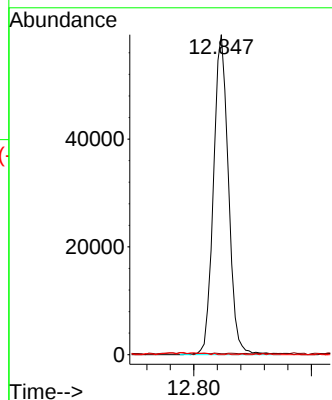
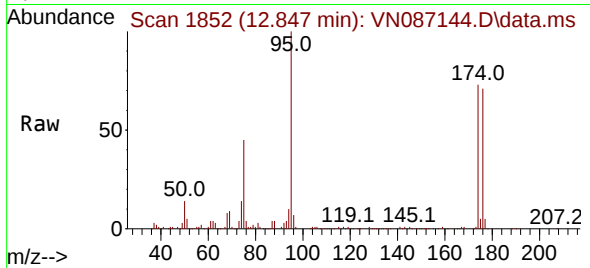




#81
trans-1,4-Dichloro-2-butene
Concen: 40.480 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN087144.D
Acq: 20 Jun 2025 16:52

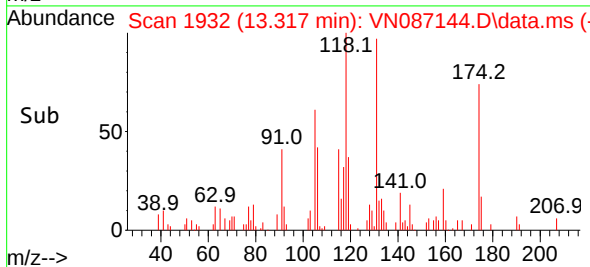
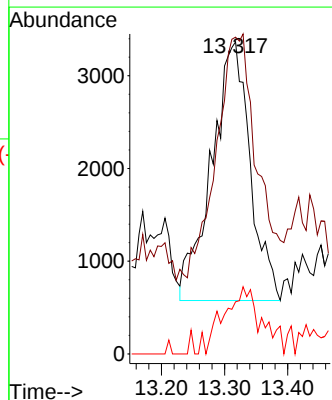
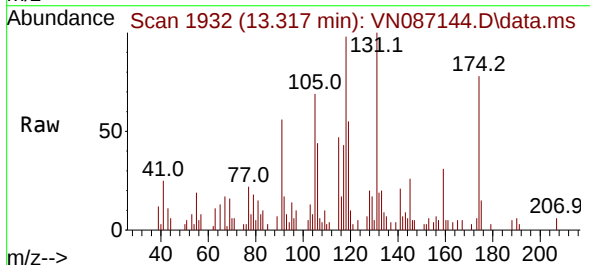
Instrument :
MSVOA_N
ClientSampleId :
IBLK

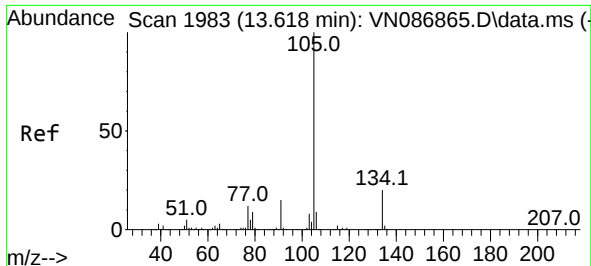
Tgt Ion: 75 Resp: 104916
Ion Ratio Lower Upper
75 100
53 0.1 66.6 99.8#
89 0.1 36.7 55.1#



#83
tert-Butylbenzene
Concen: 0.857 ug/l
RT: 13.317 min Scan# 1932
Delta R.T. -0.118 min
Lab File: VN087144.D
Acq: 20 Jun 2025 16:52

Tgt Ion: 119 Resp: 11840
Ion Ratio Lower Upper
119 100
91 94.9 32.1 96.5
134 25.5 13.4 40.1

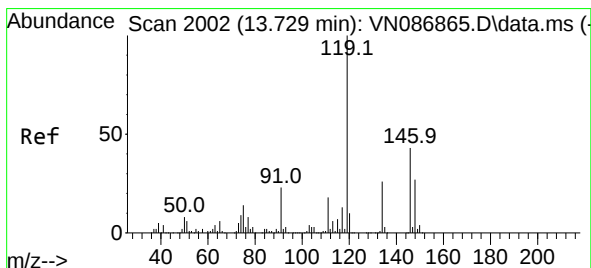
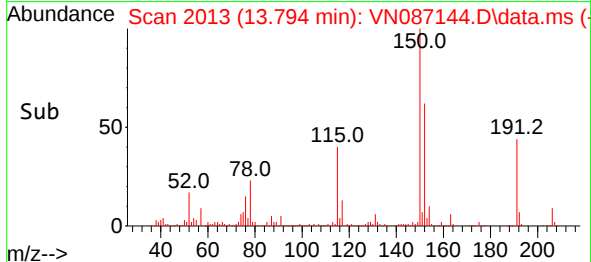
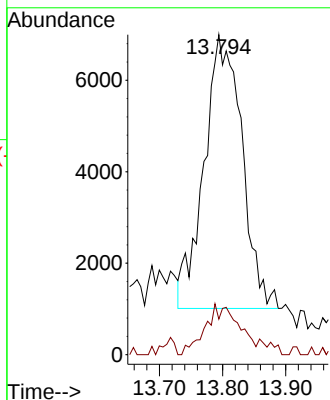
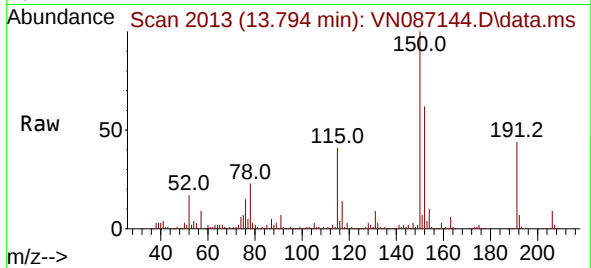




#85
 sec-Butylbenzene
 Concen: 1.240 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. 0.176 min
 Lab File: VN087144.D
 Acq: 20 Jun 2025 16:52

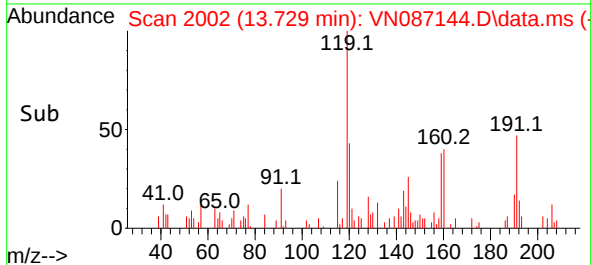
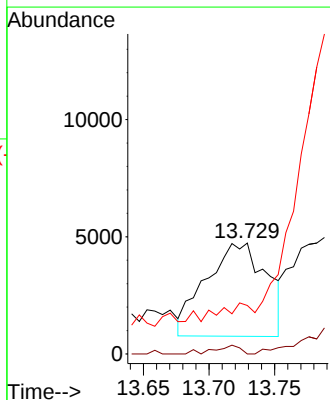
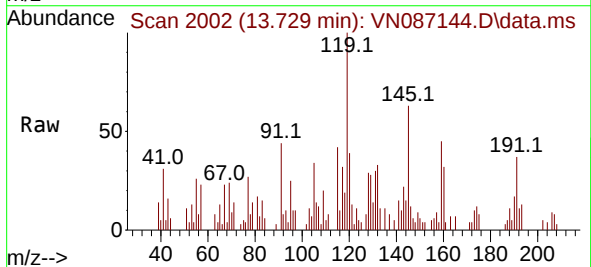
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

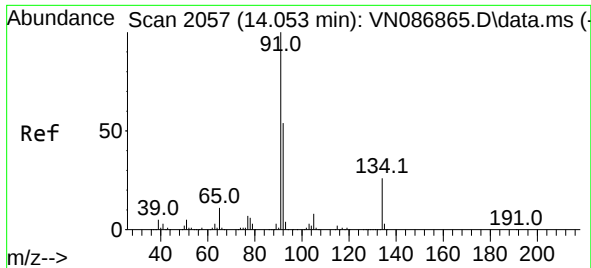
Tgt Ion:105 Resp: 24881
 Ion Ratio Lower Upper
 105 100
 134 16.4 10.0 30.0



#86
 p-Isopropyltoluene
 Concen: 0.770 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN087144.D
 Acq: 20 Jun 2025 16:52

Tgt Ion:119 Resp: 12780
 Ion Ratio Lower Upper
 119 100
 134 3.9 13.5 40.4#
 91 0.0 11.5 34.4#





#89
 n-Butylbenzene
 Concen: 0.207 ug/l
 RT: 14.006 min Scan# 2049
 Delta R.T. -0.047 min
 Lab File: VN087144.D
 Acq: 20 Jun 2025 16:52

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Tgt Ion: 91 Resp: 3329
 Ion Ratio Lower Upper
 91 100
 92 0.0 27.5 82.4#
 134 6.7 13.0 39.0#

