

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102925\
 Data File : VN088167.D
 Acq On : 29 Oct 2025 17:32
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Oct 30 04:11:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

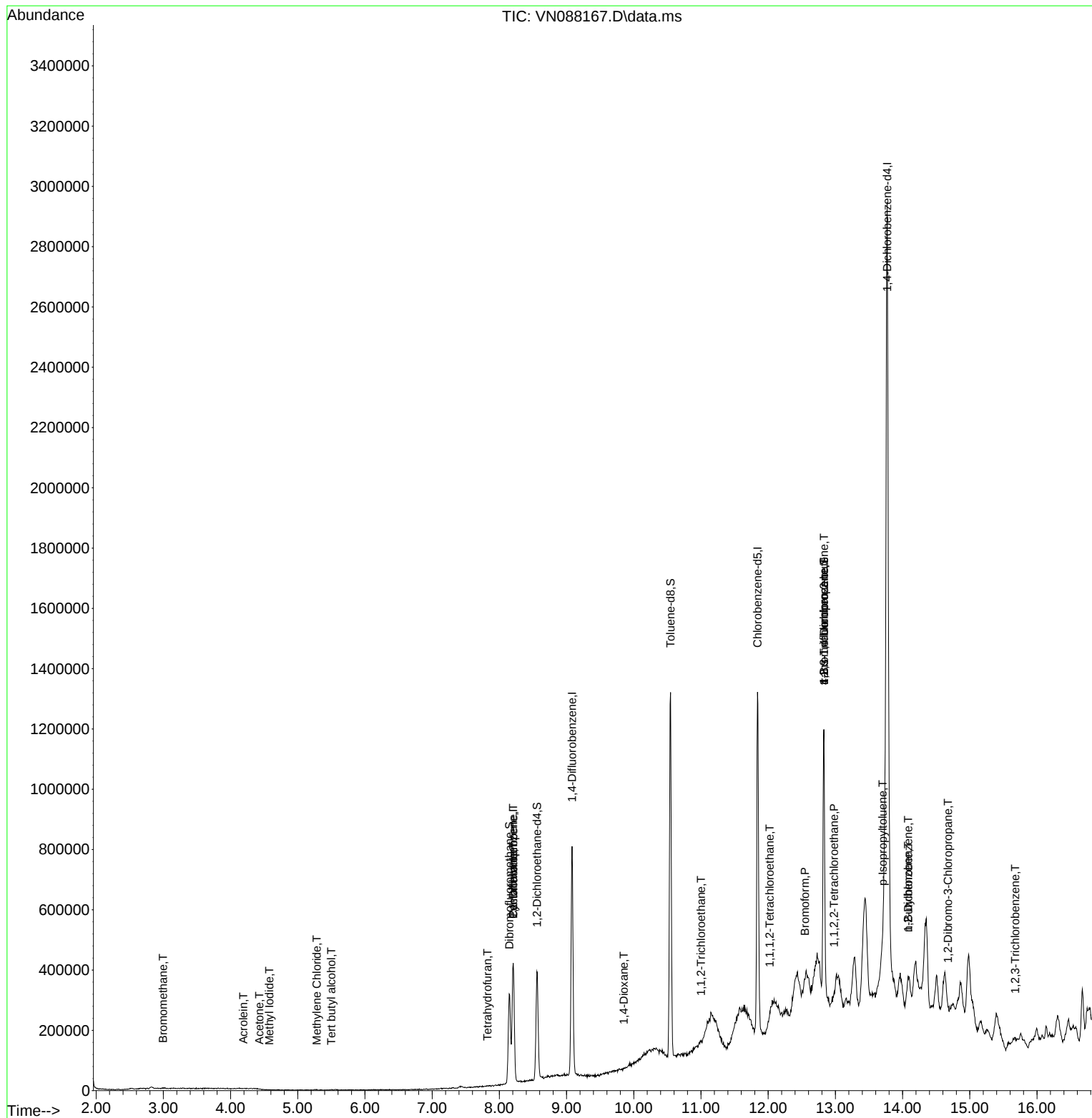
Internal Standards						
1) Pentafluorobenzene	8.206	168	265780	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	621895	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	617033	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	322590	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	301436	65.588	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 131.180%#			
35) Dibromofluoromethane	8.147	113	213151	51.018	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.040%			
50) Toluene-d8	10.547	98	820417	50.963	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.920%			
62) 4-Bromofluorobenzene	12.829	95	349932	61.550	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 123.100%#			
Target Compounds						Qvalue
5) Bromomethane	2.995	94	1499	0.652	ug/l	93
10) Methyl Iodide	4.577	142	211	4.273	ug/l #	38
11) Tert butyl alcohol	5.500	59	1041	1.315	ug/l #	71
13) Acrolein	4.189	56	182	0.204	ug/l #	1
16) Acetone	4.430	43	859	0.372	ug/l #	47
20) Methylene Chloride	5.283	84	394	0.881	ug/l #	70
29) Tetrahydrofuran	7.824	42	481	0.243	ug/l #	50
31) Cyclohexane	8.206	56	9457	1.470	ug/l #	40
36) 1,1-Dichloropropene	8.206	75	28034	4.596	ug/l #	53
49) 1,4-Dioxane	9.853	88	59	0.849	ug/l #	1
55) 1,1,2-Trichloroethane	11.000	97	1835	0.422	ug/l #	31
66) 1,1,1,2-Tetrachloroethane	12.023	131	1672	0.364	ug/l #	25
71) Bromoform	12.547	173	830	0.242	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.982	83	7168	0.925	ug/l #	1
76) 1,2,3-Trichloropropane	12.829	75	192048	26.039	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	192048	72.637	ug/l #	1
86) p-Isopropyltoluene	13.706	119	44726	2.056	ug/l #	50
89) n-Butylbenzene	14.082	91	9685	0.449	ug/l #	41
91) 1,2-Dichlorobenzene	14.082	146	2216	0.215	ug/l #	65
92) 1,2-Dibromo-3-Chloropr...	14.676	75	1149	0.637	ug/l #	57
96) 1,2,3-Trichlorobenzene	15.676	180	1516	0.253	ug/l	67

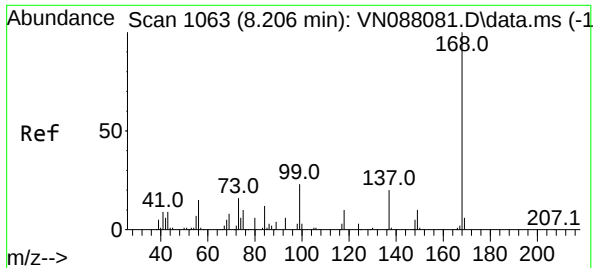
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

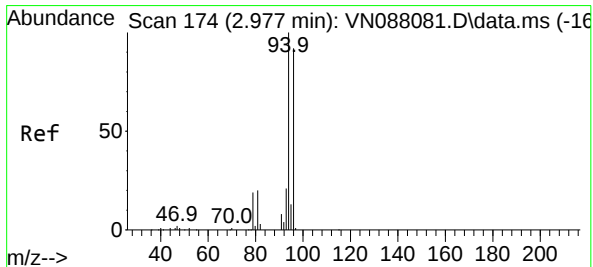
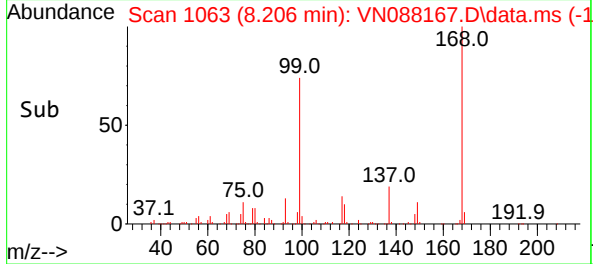
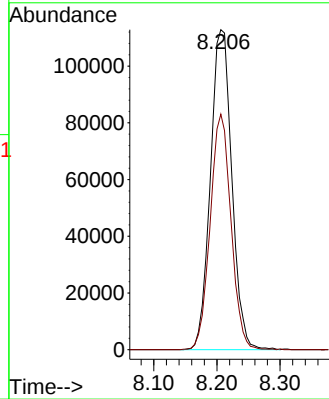
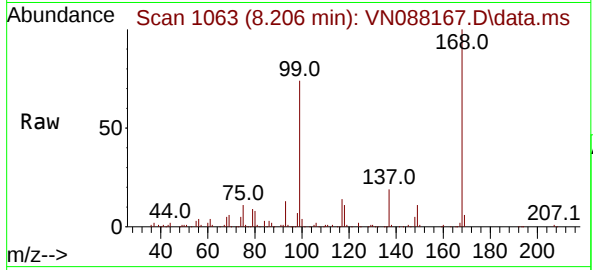




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

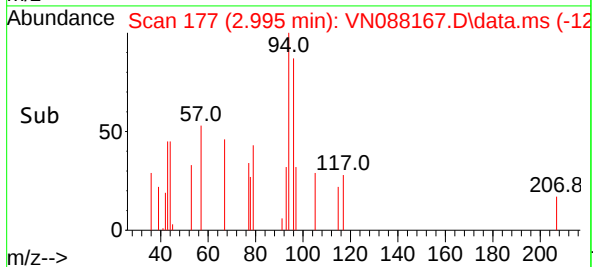
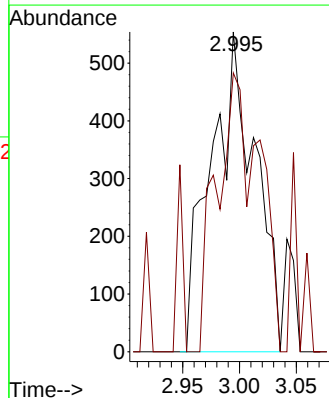
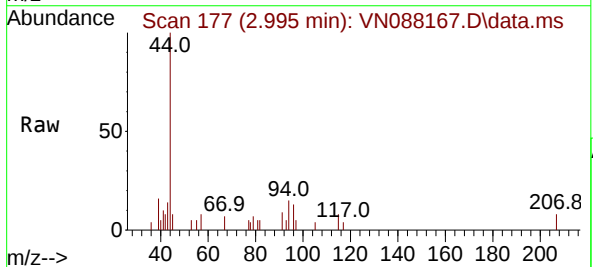
Instrument :
MSVOA_N
ClientSampleId :
IBLK

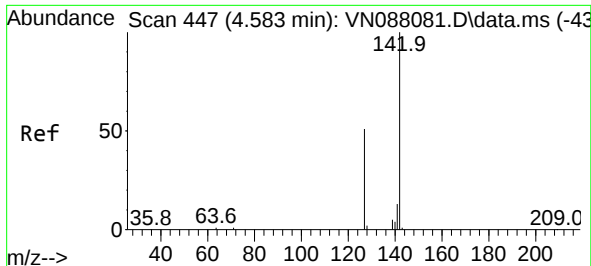
Tgt Ion:168 Resp: 265780
Ion Ratio Lower Upper
168 100
99 73.6 57.2 85.8



#5
Bromomethane
Concen: 0.652 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.023 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

Tgt Ion: 94 Resp: 1499
Ion Ratio Lower Upper
94 100
96 87.2 75.4 113.2

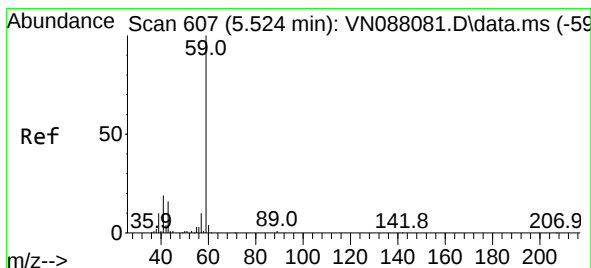
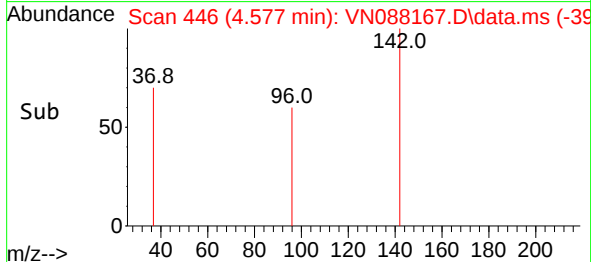
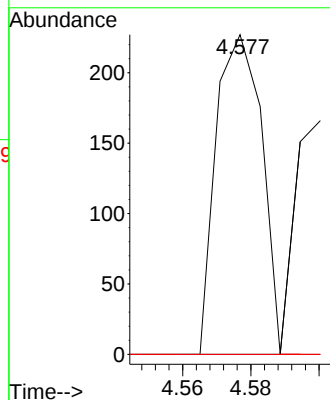
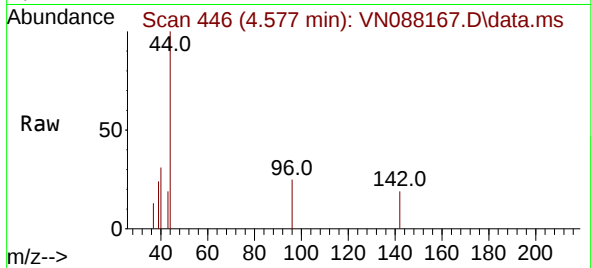




#10
Methyl Iodide
Concen: 4.273 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

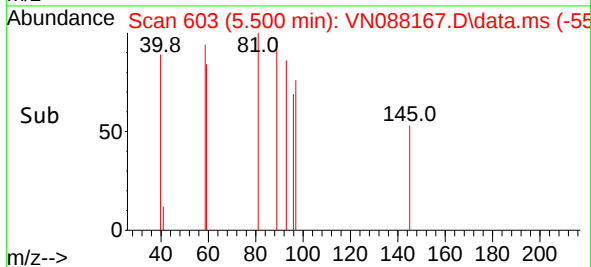
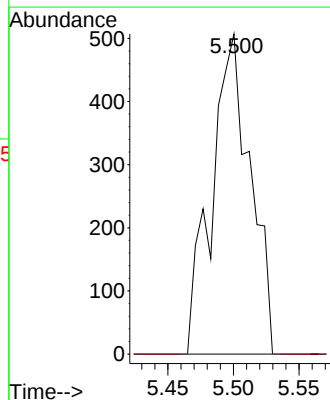
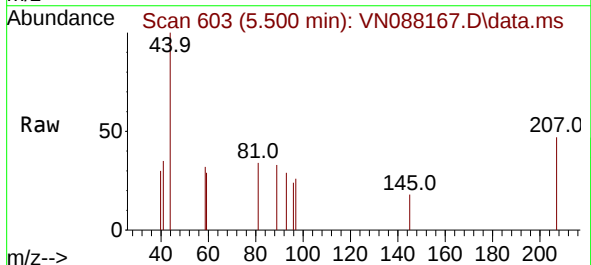
Instrument :
MSVOA_N
ClientSampleId :
IBLK

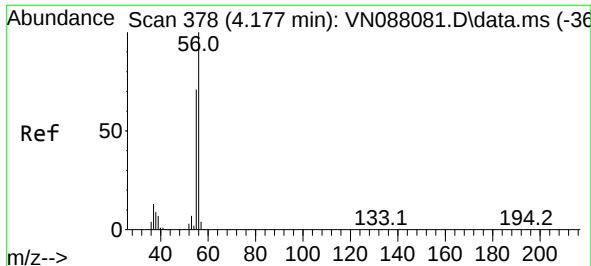
Tgt Ion:142 Resp: 211
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 1.315 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.018 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

Tgt Ion: 59 Resp: 1041
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

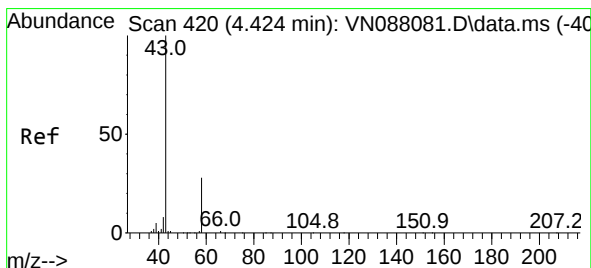
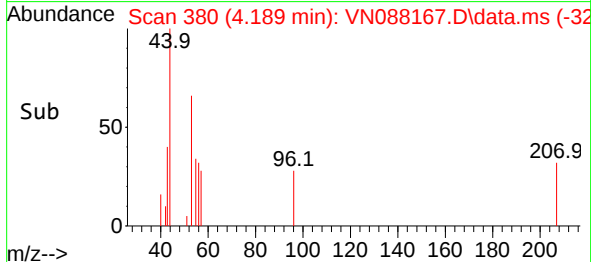
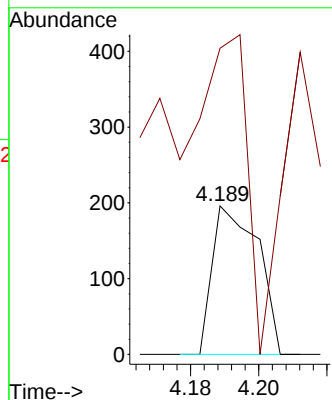
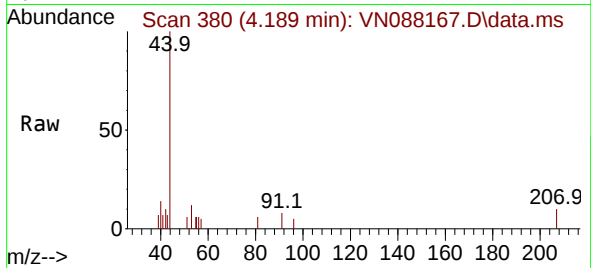




#13
Acrolein
Concen: 0.204 ug/l
RT: 4.189 min Scan# 378
Delta R.T. 0.018 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

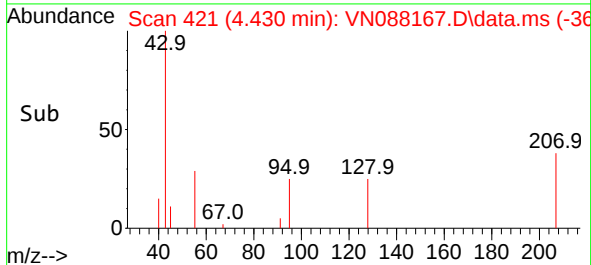
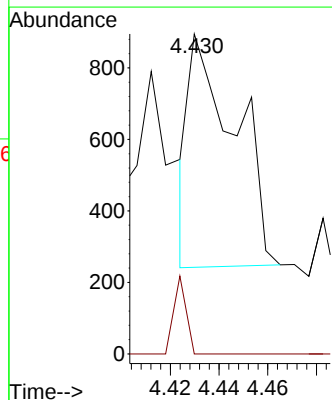
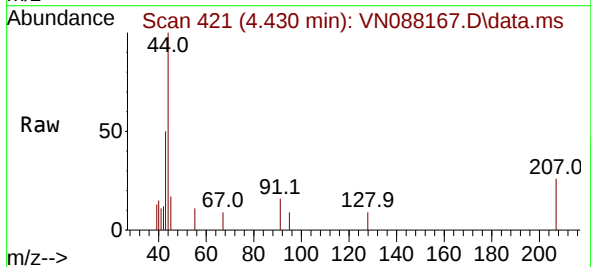
Instrument :
MSVOA_N
ClientSampleId :
IBLK

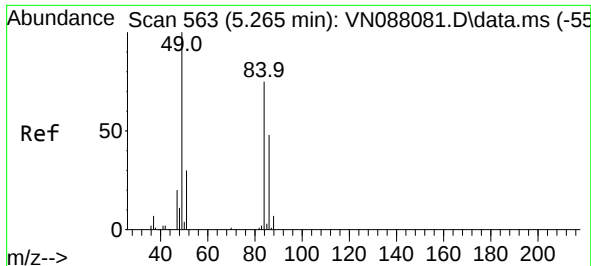
Tgt Ion: 56 Resp: 182
Ion Ratio Lower Upper
56 100
55 220.3 57.3 85.9#



#16
Acetone
Concen: 0.372 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

Tgt Ion: 43 Resp: 859
Ion Ratio Lower Upper
43 100
58 0.0 22.6 33.8#

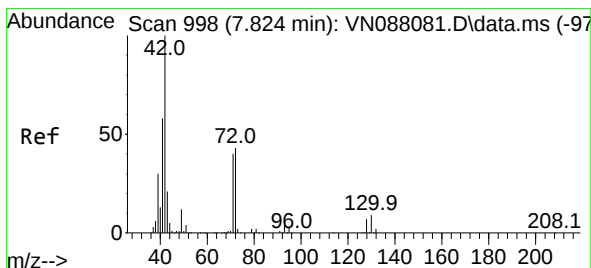
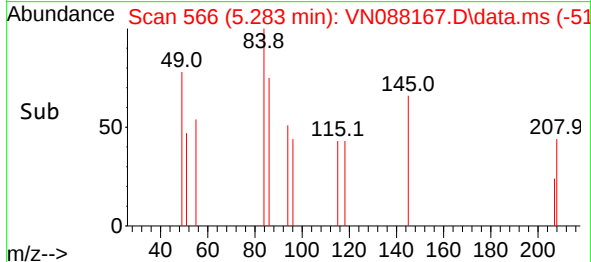
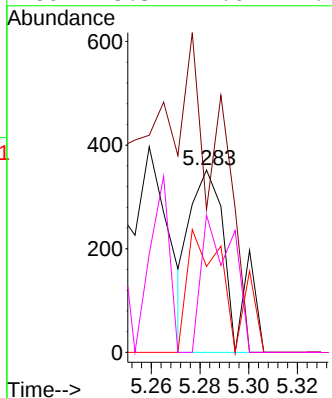
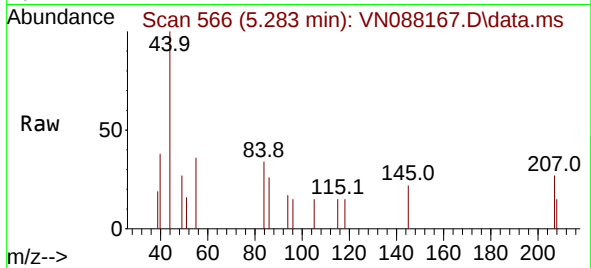




#20
Methylene Chloride
Concen: 0.881 ug/l
RT: 5.283 min Scan# 50
Delta R.T. 0.018 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

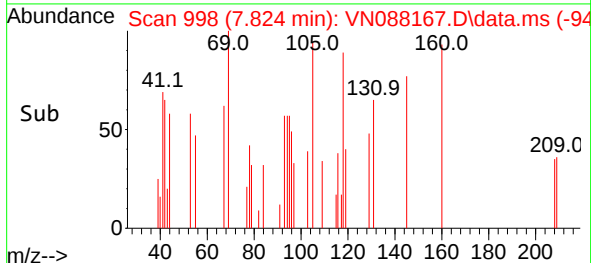
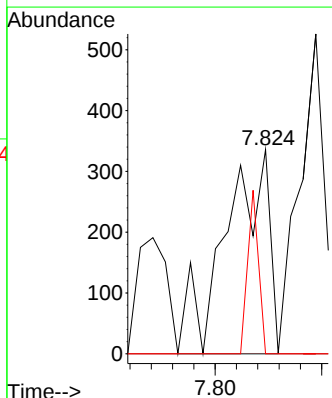
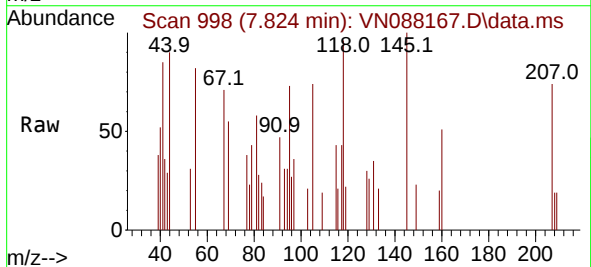
Instrument :
MSVOA_N
ClientSampleId :
IBLK

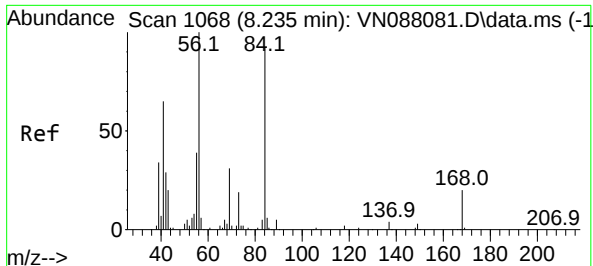
Tgt Ion:	84	Resp:	394
Ion	Ratio	Lower	Upper
84	100		
49	78.4	103.4	155.2#
51	47.2	33.8	50.8
86	75.3	49.6	74.4#



#29
Tetrahydrofuran
Concen: 0.243 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

Tgt Ion:	42	Resp:	481
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	19.8	31.9	47.9#

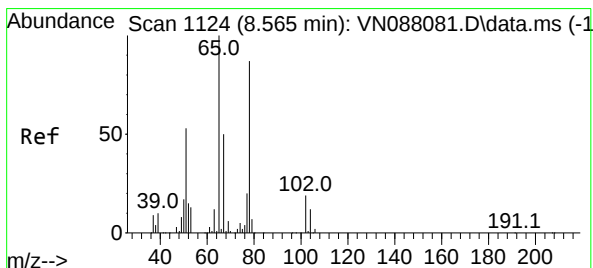
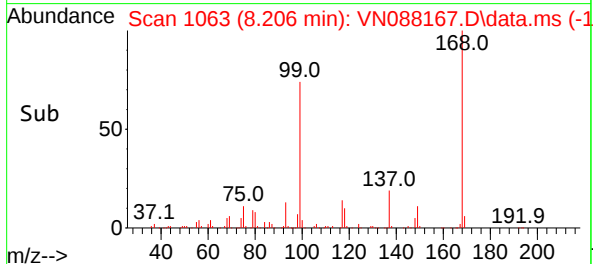
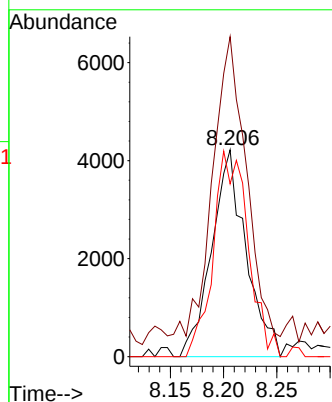
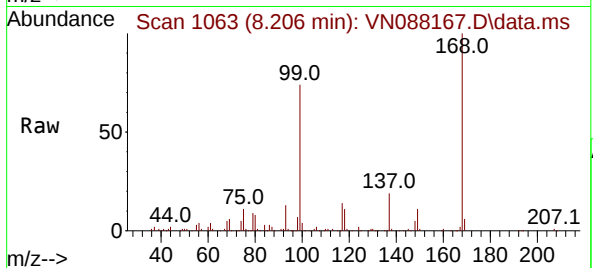




#31
Cyclohexane
Concen: 1.470 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.030 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

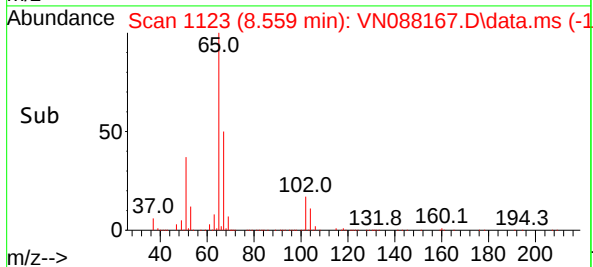
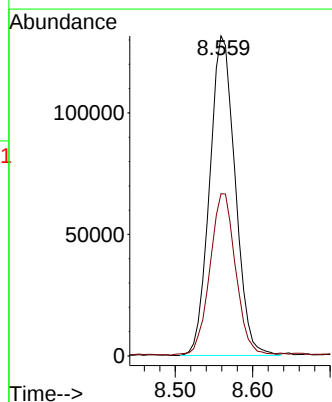
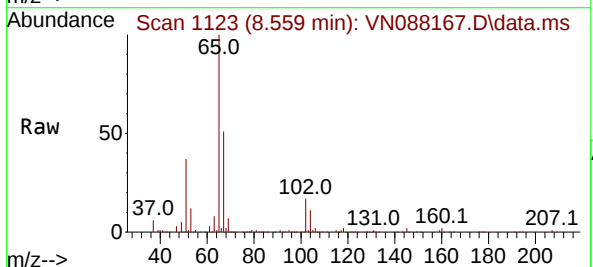
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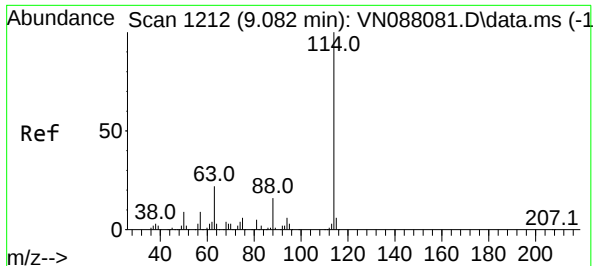
Tgt Ion: 56 Resp: 9457
Ion Ratio Lower Upper
56 100
69 145.0 23.7 35.5#
84 83.5 64.7 97.1



#33
1,2-Dichloroethane-d4
Concen: 65.588 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

Tgt Ion: 65 Resp: 301436
Ion Ratio Lower Upper
65 100
67 50.6 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN088167.D

Acq: 29 Oct 2025 17:32

Instrument :

MSVOA_N

ClientSampleId :

IBLK

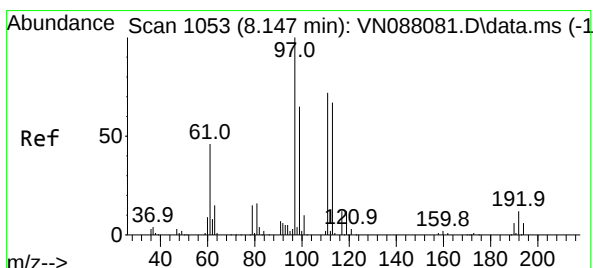
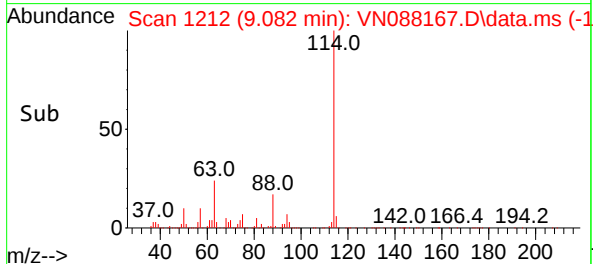
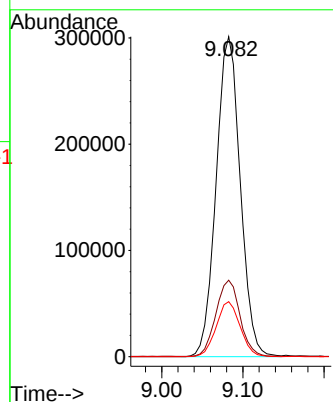
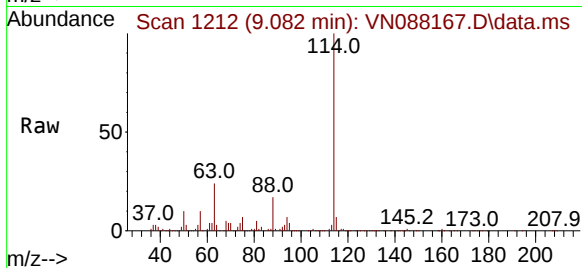
Tgt Ion:114 Resp: 621895

Ion Ratio Lower Upper

114 100

63 23.8 0.0 45.2

88 17.2 0.0 33.4



#35

Dibromofluoromethane

Concen: 51.018 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088167.D

Acq: 29 Oct 2025 17:32

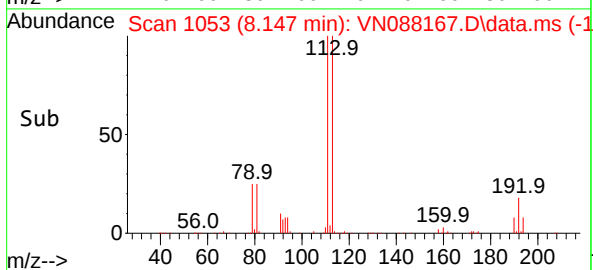
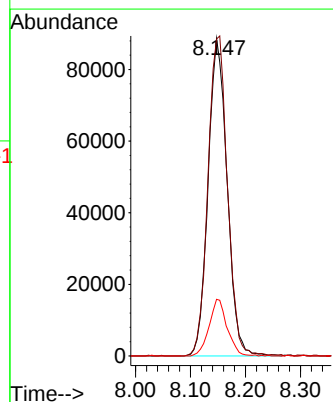
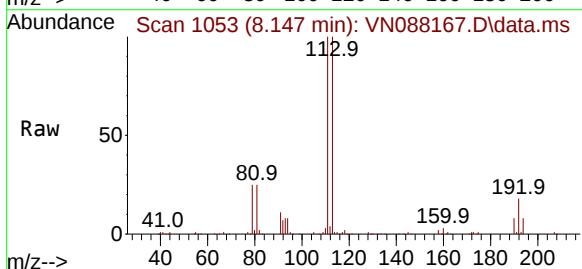
Tgt Ion:113 Resp: 213151

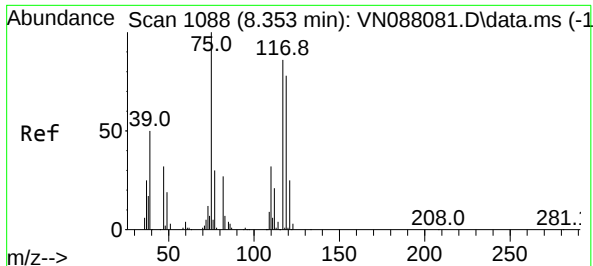
Ion Ratio Lower Upper

113 100

111 103.1 82.8 124.2

192 17.0 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.596 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088167.D

Acq: 29 Oct 2025 17:32

Instrument :

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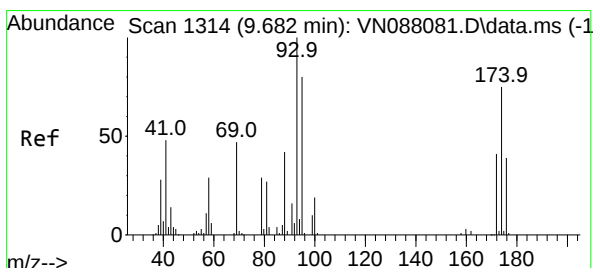
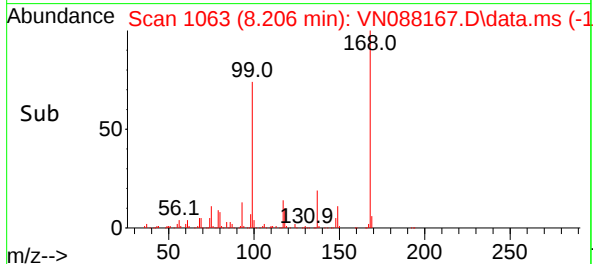
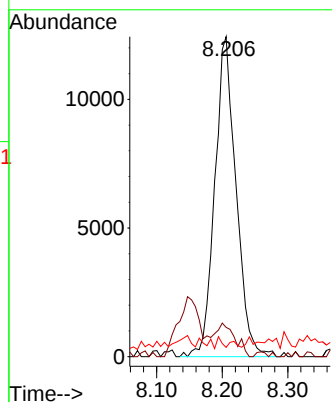
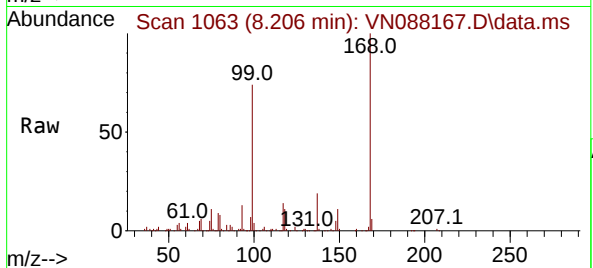
Tgt Ion: 75 Resp: 28034

Ion Ratio Lower Upper

75 100

110 9.5 15.9 47.6#

77 0.9 24.4 36.6#



#49

1,4-Dioxane

Concen: 0.849 ug/l

RT: 9.853 min Scan# 1343

Delta R.T. 0.170 min

Lab File: VN088167.D

Acq: 29 Oct 2025 17:32

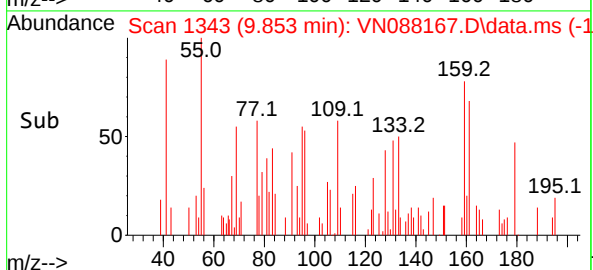
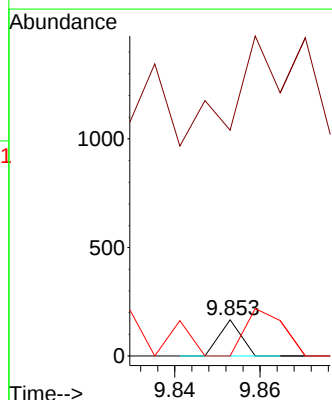
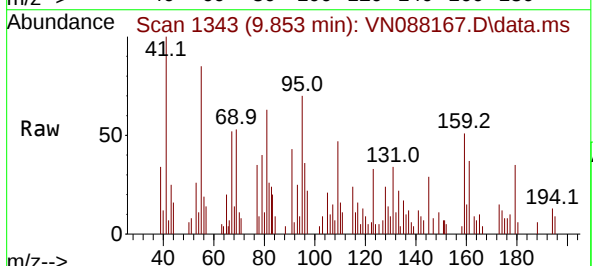
Tgt Ion: 88 Resp: 59

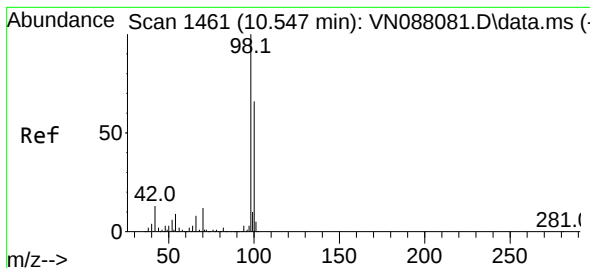
Ion Ratio Lower Upper

88 100

43 650.8 0.0 0.0#

58 227.1 57.9 86.9#

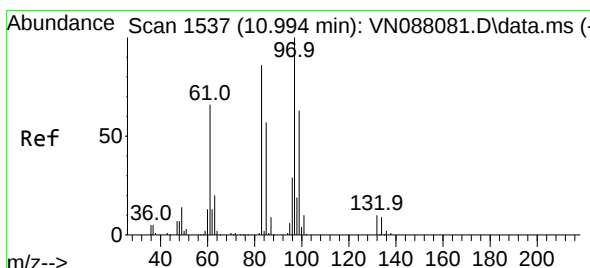
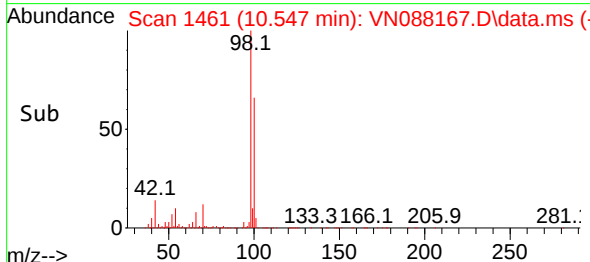
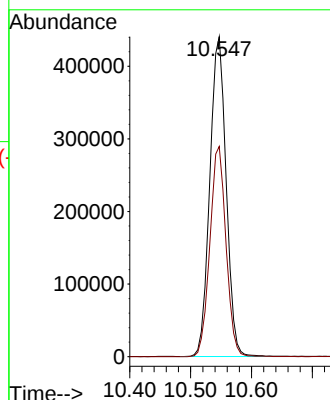
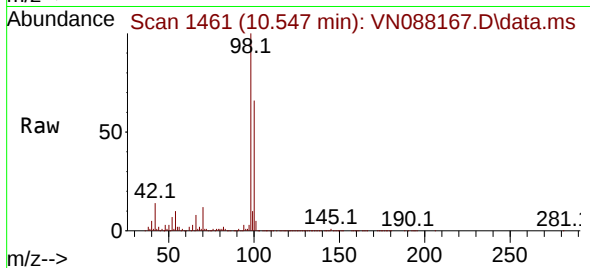




#50
Toluene-d8
Concen: 50.963 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

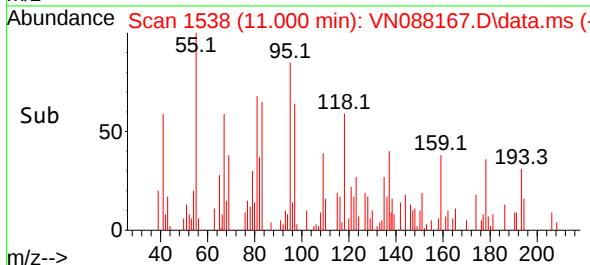
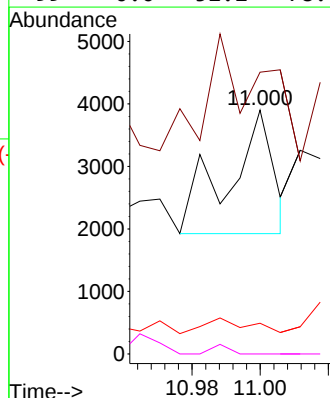
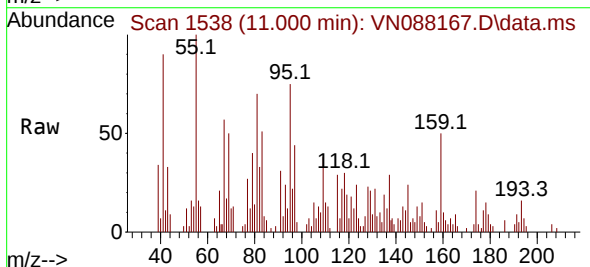
Instrument :
MSVOA_N
ClientSampleId :
IBLK

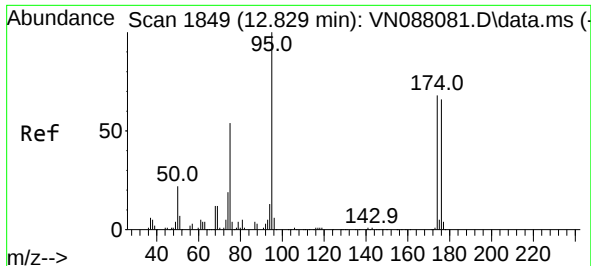
Tgt Ion: 98 Resp: 820417
Ion Ratio Lower Upper
98 100
100 65.0 52.8 79.2



#55
1,1,2-Trichloroethane
Concen: 0.422 ug/l
RT: 11.000 min Scan# 1538
Delta R.T. 0.006 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

Tgt Ion: 97 Resp: 1835
Ion Ratio Lower Upper
97 100
83 29.6 68.2 102.4#
85 8.3 45.5 68.3#
99 0.0 52.2 78.4#

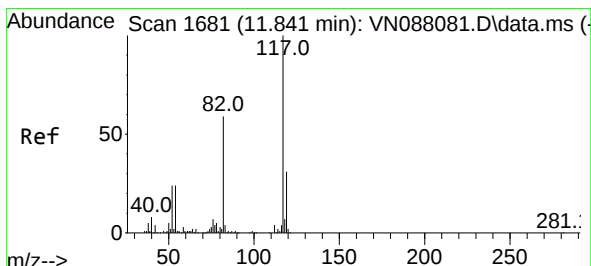
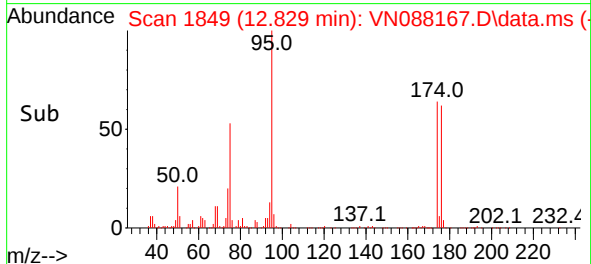
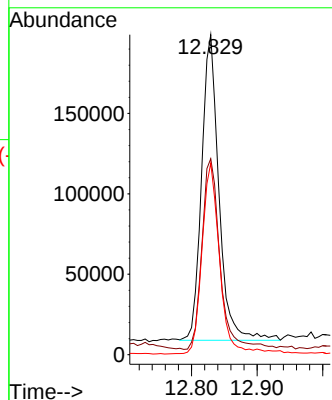
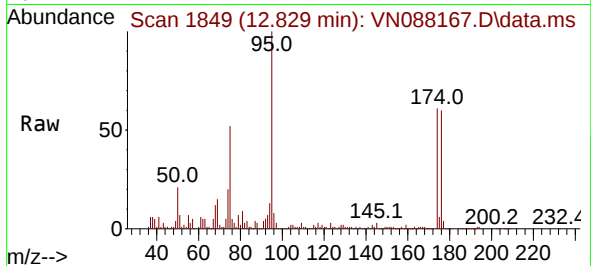




#62
4-Bromofluorobenzene
Concen: 61.550 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

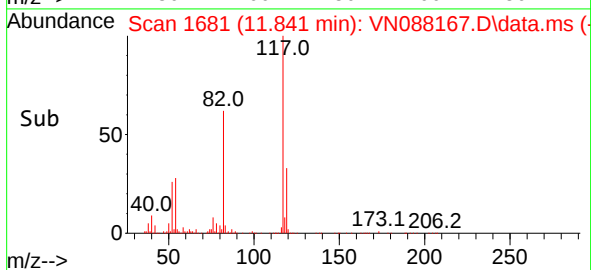
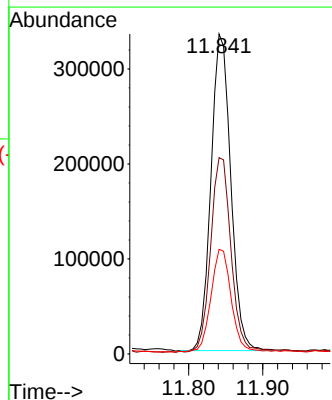
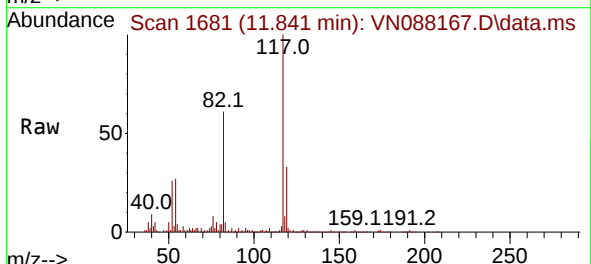
Instrument :
MSVOA_N
ClientSampleId :
IBLK

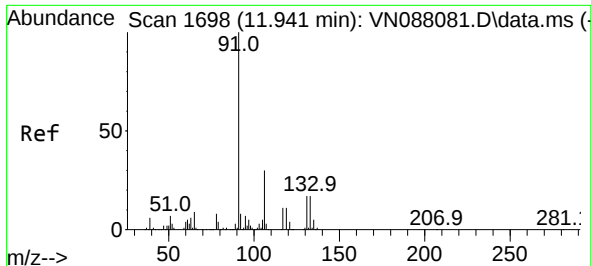
Tgt Ion: 95 Resp: 349932
Ion Ratio Lower Upper
95 100
174 65.2 0.0 138.4
176 64.2 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

Tgt Ion: 117 Resp: 617033
Ion Ratio Lower Upper
117 100
82 61.1 47.4 71.2
119 32.3 24.3 36.5

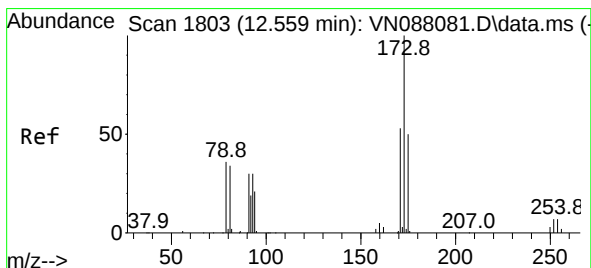
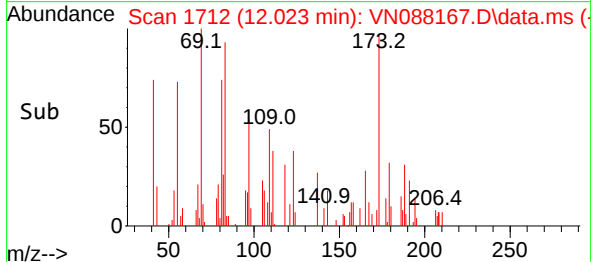
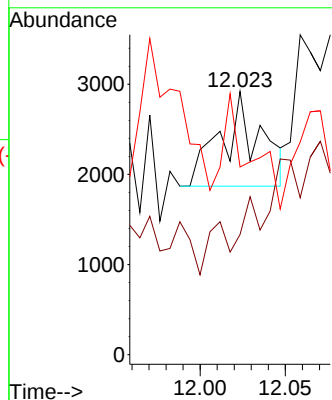
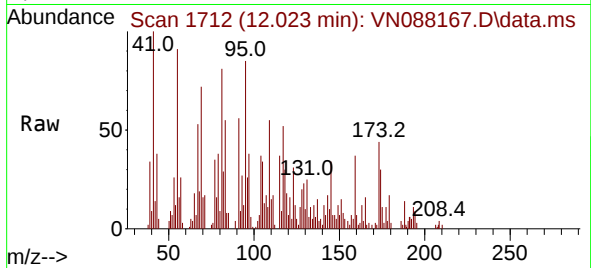




#66
1,1,1,2-Tetrachloroethane
Concen: 0.364 ug/l
RT: 12.023 min Scan# 11
Delta R.T. 0.082 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

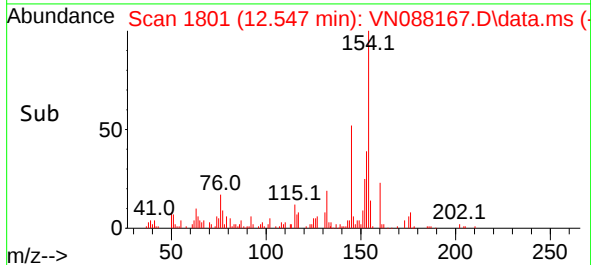
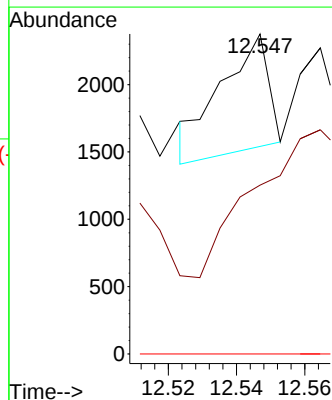
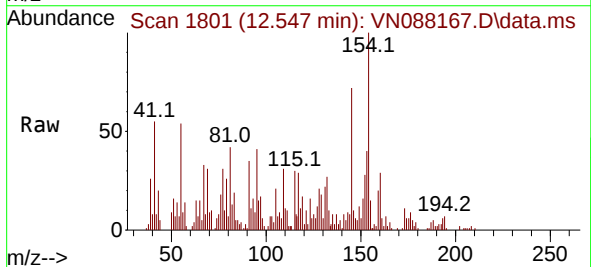
Instrument :
MSVOA_N
ClientSampleId :
IBLK

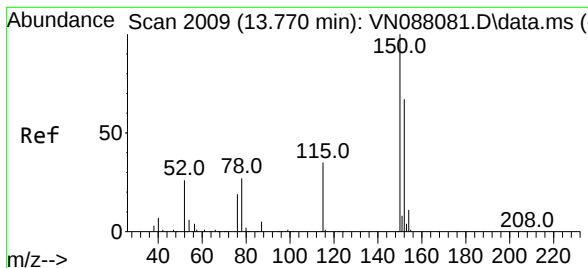
Tgt Ion:131 Resp: 1672
Ion Ratio Lower Upper
131 100
133 27.9 48.0 144.0#
119 0.0 32.6 97.7#



#71
Bromoform
Concen: 0.242 ug/l
RT: 12.547 min Scan# 1801
Delta R.T. -0.012 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

Tgt Ion:173 Resp: 830
Ion Ratio Lower Upper
173 100
175 272.7 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# 2009

Delta R.T. 0.006 min

Lab File: VN088167.D

Acq: 29 Oct 2025 17:32

Instrument :

MSVOA_N

ClientSampleId :

IBLK

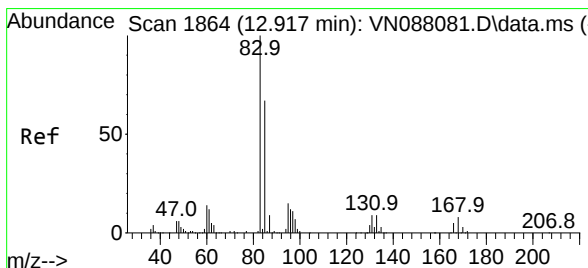
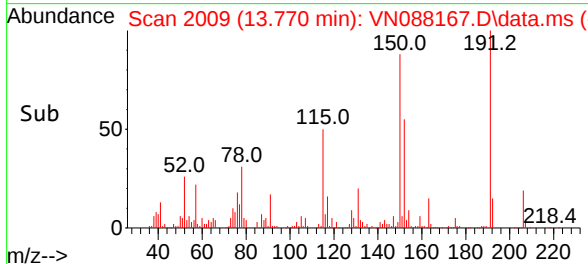
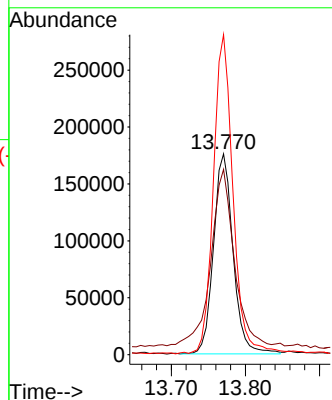
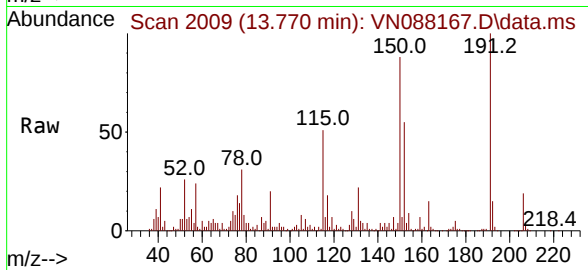
Tgt Ion:152 Resp: 322590

Ion Ratio Lower Upper

152 100

115 108.4 32.3 96.8#

150 159.8 0.0 351.0



#75

1,1,2,2-Tetrachloroethane

Concen: 0.925 ug/l

RT: 12.982 min Scan# 1875

Delta R.T. 0.065 min

Lab File: VN088167.D

Acq: 29 Oct 2025 17:32

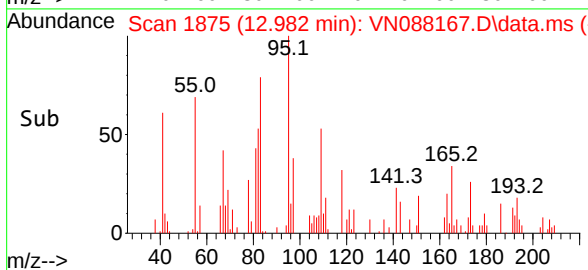
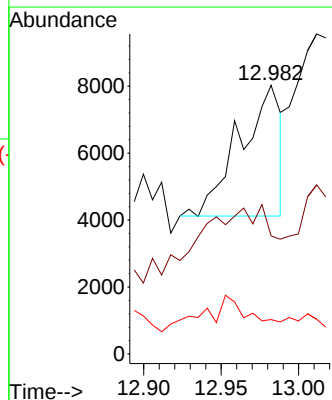
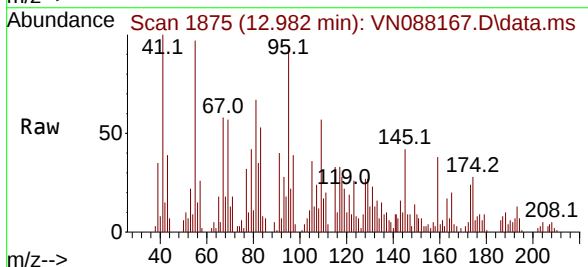
Tgt Ion: 83 Resp: 7168

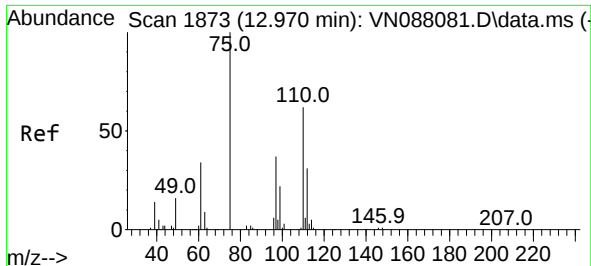
Ion Ratio Lower Upper

83 100

131 176.2 4.8 14.4#

85 0.0 32.1 96.3#

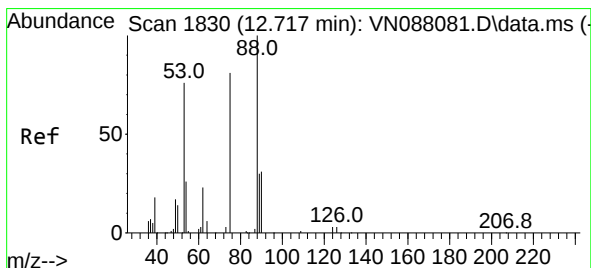
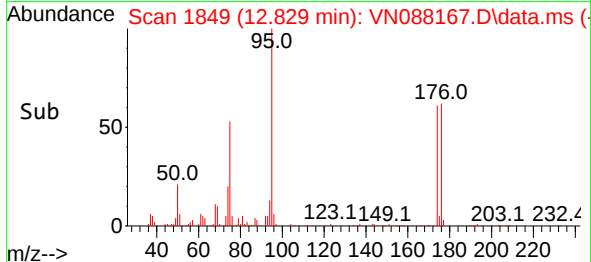
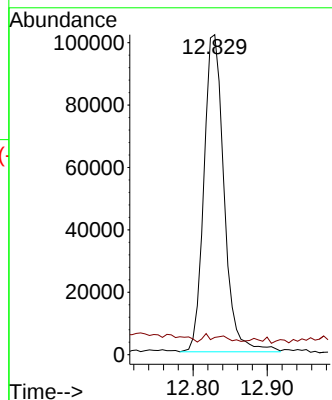
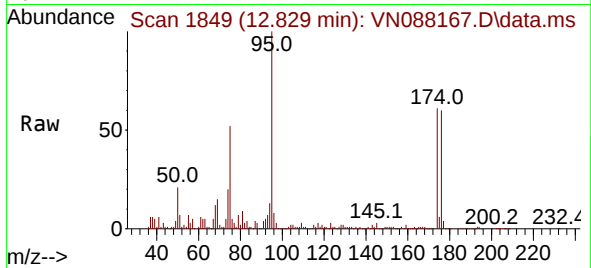




#76
1,2,3-Trichloropropane
Concen: 26.039 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

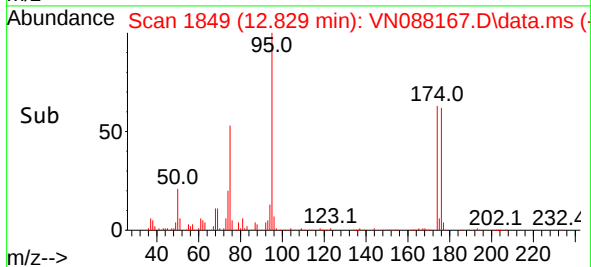
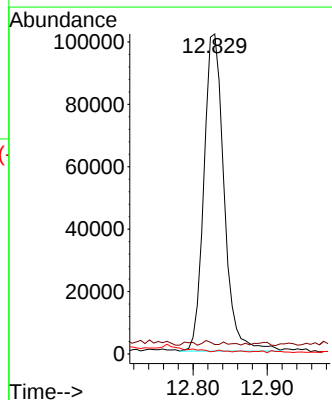
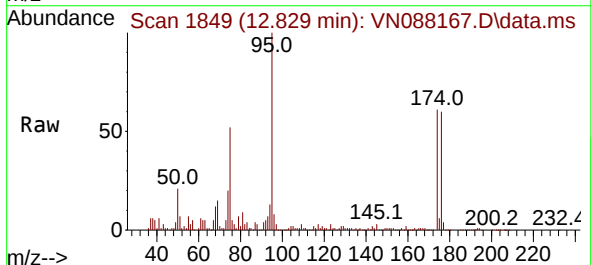
Instrument :
MSVOA_N
ClientSampleId :
IBLK

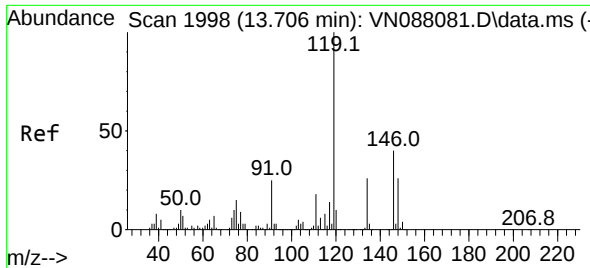
Tgt Ion: 75 Resp: 192048
Ion Ratio Lower Upper
75 100
77 0.9 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 72.637 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

Tgt Ion: 75 Resp: 192048
Ion Ratio Lower Upper
75 100
53 0.4 101.8 152.6#
89 0.2 35.6 53.4#

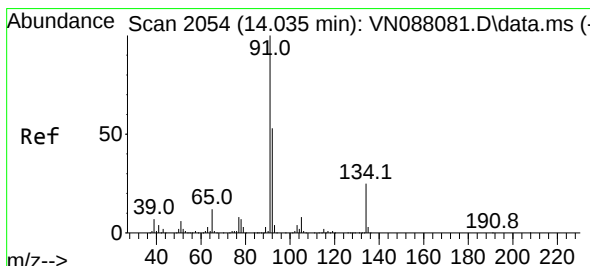
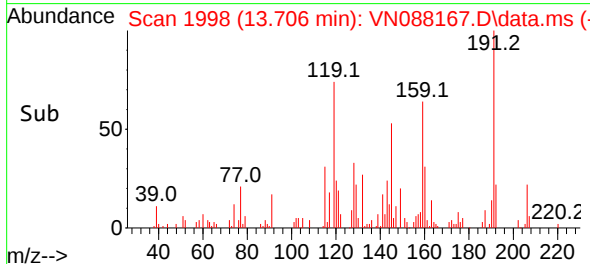
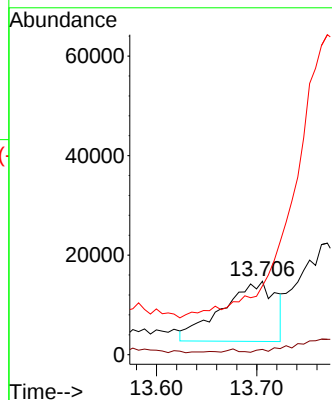
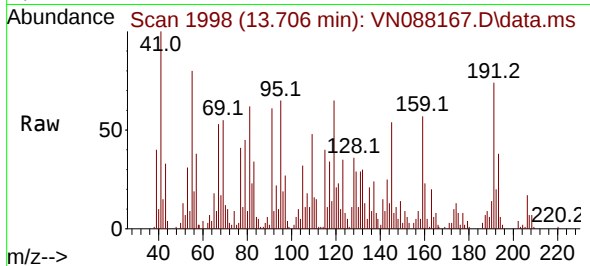




#86
p-Isopropyltoluene
Concen: 2.056 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

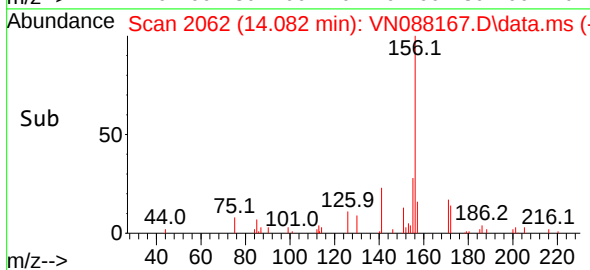
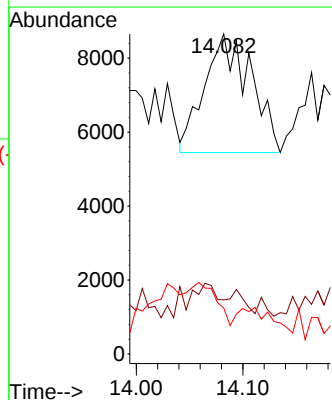
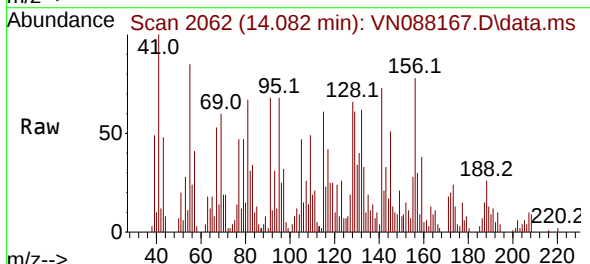
Instrument :
MSVOA_N
ClientSampleId :
IBLK

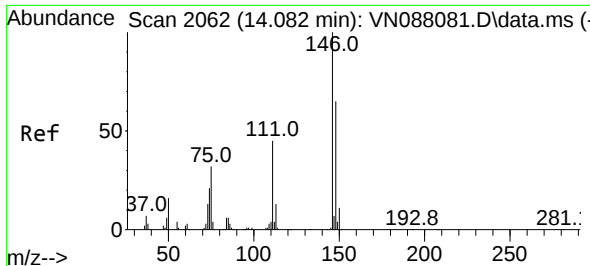
Tgt Ion:119 Resp: 44726
Ion Ratio Lower Upper
119 100
134 0.0 12.7 38.0#
91 0.0 12.5 37.5#



#89
n-Butylbenzene
Concen: 0.449 ug/l
RT: 14.082 min Scan# 2062
Delta R.T. 0.053 min
Lab File: VN088167.D
Acq: 29 Oct 2025 17:32

Tgt Ion: 91 Resp: 9685
Ion Ratio Lower Upper
91 100
92 7.1 25.9 77.8#
134 0.0 11.7 35.0#

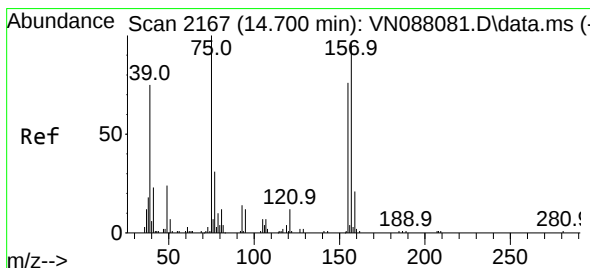
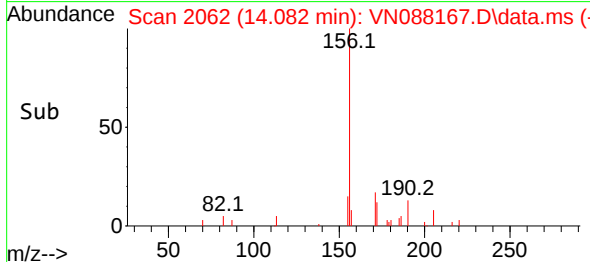
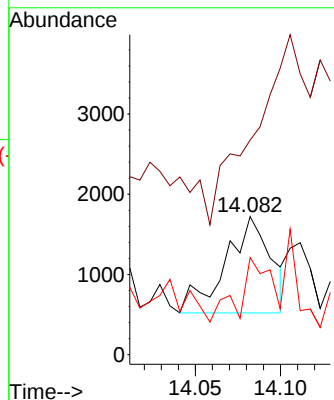
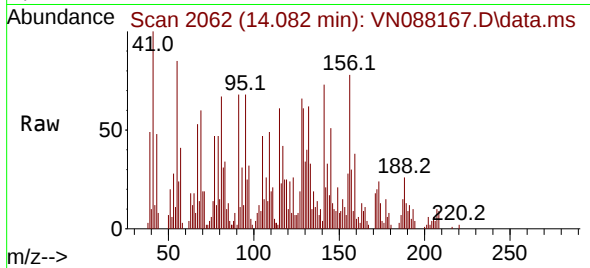




#91
 1,2-Dichlorobenzene
 Concen: 0.215 ug/l
 RT: 14.082 min Scan# 2062
 Delta R.T. -0.000 min
 Lab File: VN088167.D
 Acq: 29 Oct 2025 17:32

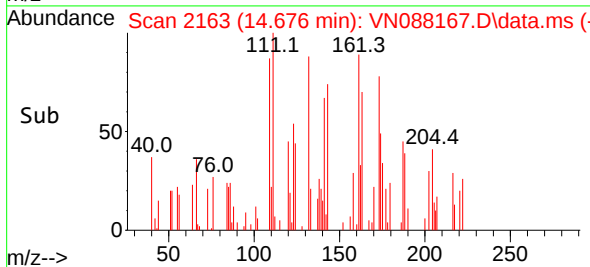
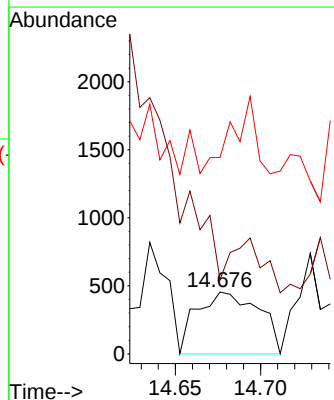
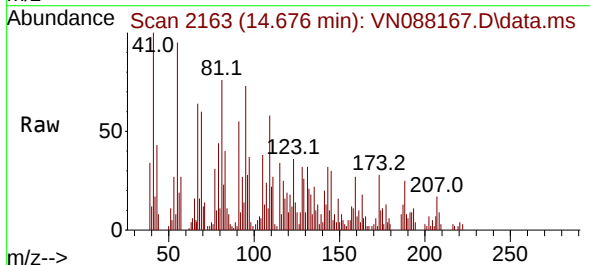
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

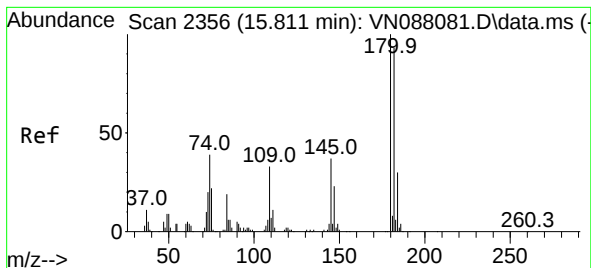
Tgt Ion:146 Resp: 2216
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.6 67.8#
 148 55.8 31.9 95.9



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.637 ug/l
 RT: 14.676 min Scan# 2163
 Delta R.T. -0.024 min
 Lab File: VN088167.D
 Acq: 29 Oct 2025 17:32

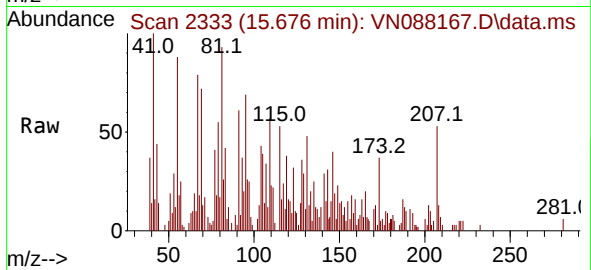
Tgt Ion: 75 Resp: 1149
 Ion Ratio Lower Upper
 75 100
 155 46.0 36.6 109.9
 157 43.1 45.6 136.9#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.253 ug/l
 RT: 15.676 min Scan# 21
 Delta R.T. -0.135 min
 Lab File: VN088167.D
 Acq: 29 Oct 2025 17:32

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK



Tgt Ion:	180	Resp:	1516
Ion Ratio	Lower	Upper	
180	100		
182	58.2	46.8	140.3
145	21.8	17.3	52.0

