

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102925\
 Data File : VN088155.D
 Acq On : 29 Oct 2025 13:24
 Operator : JC\MD
 Sample : Q3468-05RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-13RE

Quant Time: Oct 30 04:05:35 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

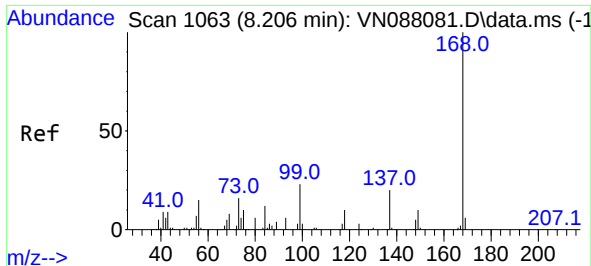
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	250372	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	581822	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	565215	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	279473	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	277597	64.118	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 128.240%#			
35) Dibromofluoromethane	8.153	113	196128	50.177	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.360%			
50) Toluene-d8	10.547	98	693766	46.064	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.120%			
62) 4-Bromofluorobenzene	12.829	95	275802	51.853	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.700%			
Target Compounds						Qvalue
3) Chloromethane	2.383	50	709	0.213	ug/l #	42
10) Methyl Iodide	4.594	142	133	4.252	ug/l #	38
11) Tert butyl alcohol	5.500	59	2475	3.318	ug/l #	71
13) Acrolein	4.159	56	559	0.666	ug/l	84
16) Acetone	4.436	43	18890	8.685	ug/l	99
18) Methyl Acetate	5.018	43	1932	0.434	ug/l #	54
31) Cyclohexane	8.200	56	9778	1.613	ug/l #	21
36) 1,1-Dichloropropene	8.206	75	26819	4.699	ug/l #	51
38) Carbon Tetrachloride	8.206	117	30234	5.129	ug/l #	16
39) Methylcyclohexane	9.582	83	2973	0.405	ug/l #	80
40) Benzene	8.588	78	23811	1.370	ug/l	99
51) 4-Methyl-2-Pentanone	10.435	43	1759	0.263	ug/l #	80
67) Ethyl Benzene	11.941	91	30504	1.354	ug/l	99
68) m/p-Xylenes	12.047	106	9187	1.088	ug/l	83
69) o-Xylene	12.376	106	13994	1.749	ug/l	93
73) Isopropylbenzene	12.676	105	9866	0.458	ug/l	92
76) 1,2,3-Trichloropropane	12.829	75	160960	25.191	ug/l #	1
78) n-propylbenzene	13.017	91	17632	0.670	ug/l	97
79) 2-Chlorotoluene	13.070	91	5454	0.364	ug/l #	42
81) trans-1,4-Dichloro-2-b...	12.829	75	160960	70.271	ug/l #	1
95) Naphthalene	15.623	128	11999	0.647	ug/l #	73

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

Quant Time: Oct 30 04:05:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
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QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

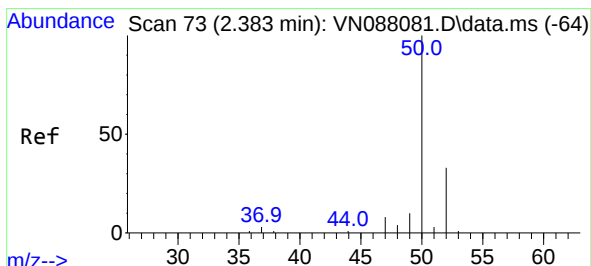
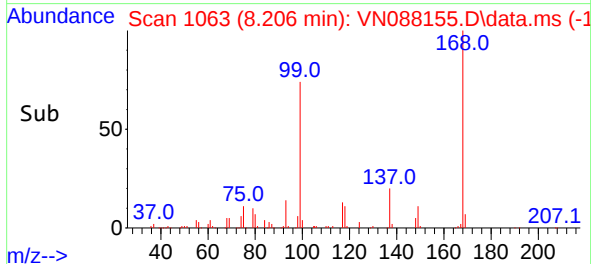
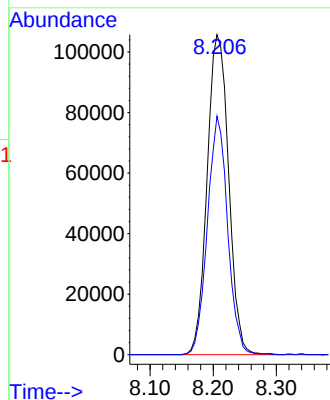
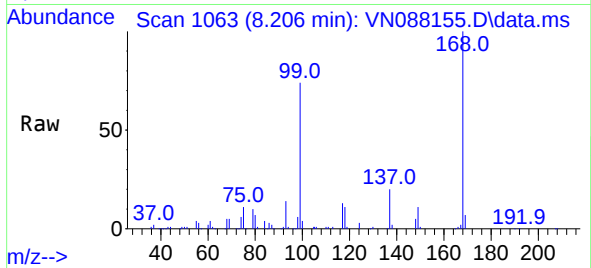




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

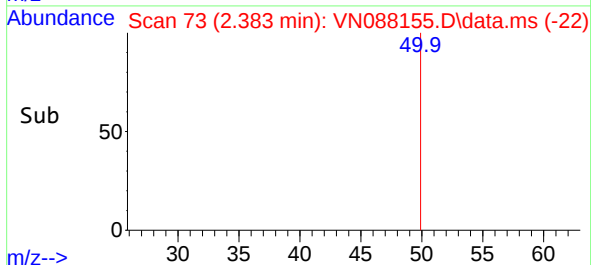
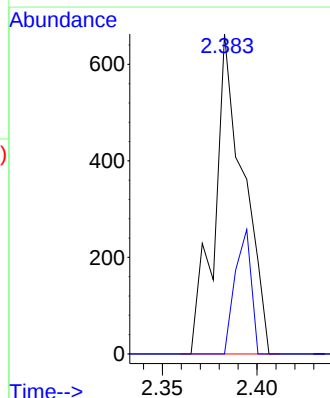
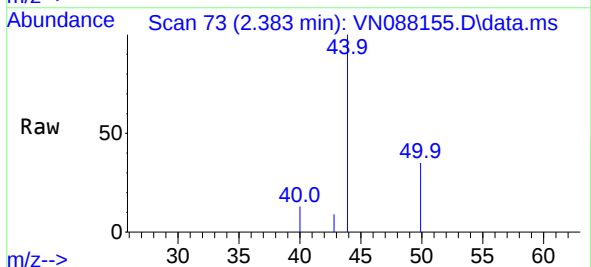
Instrument :
MSVOA_N
ClientSampleId :
MW-13RE

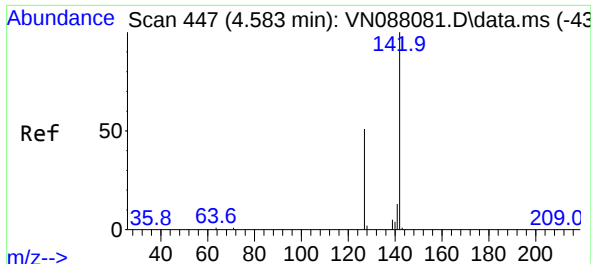
Tgt Ion:168 Resp: 250372
Ion Ratio Lower Upper
168 100
99 74.5 57.2 85.8



#3
Chloromethane
Concen: 0.213 ug/l
RT: 2.383 min Scan# 73
Delta R.T. -0.000 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion: 50 Resp: 709
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.4#

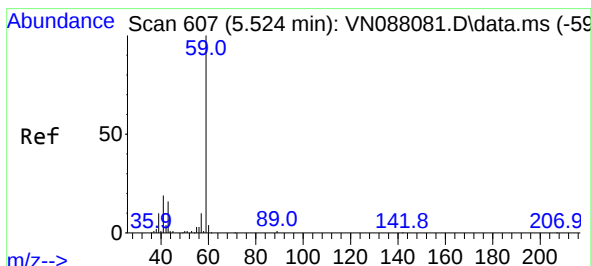
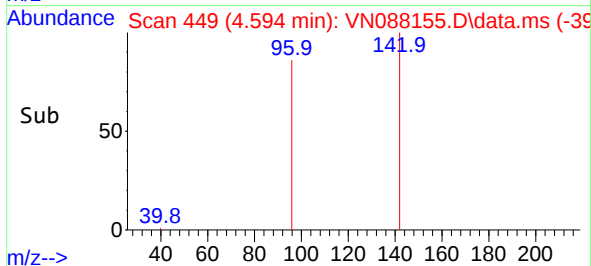
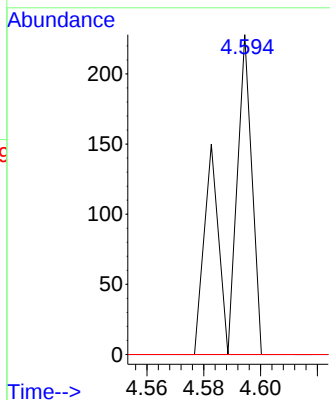
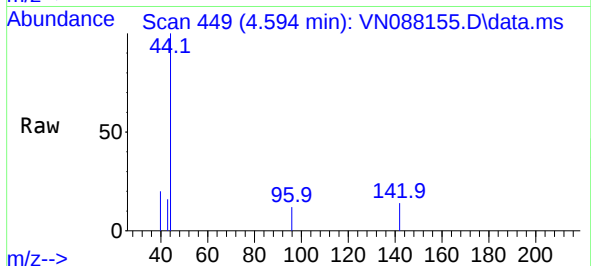




#10
Methyl Iodide
Concen: 4.252 ug/l
RT: 4.594 min Scan# 447
Delta R.T. 0.017 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

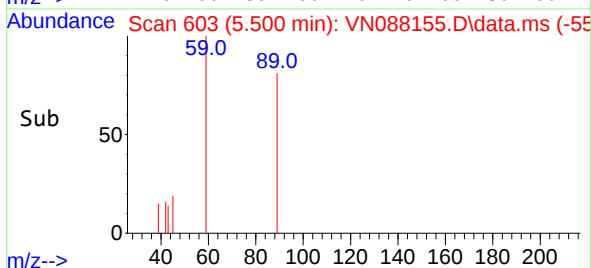
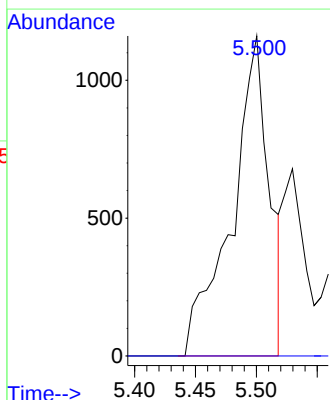
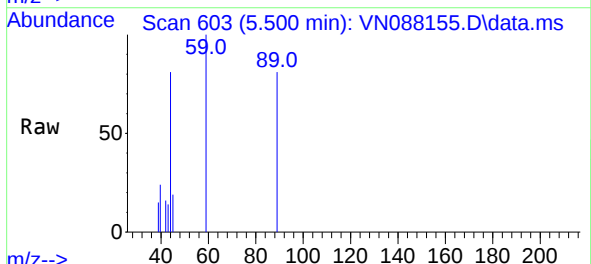
Instrument :
MSVOA_N
ClientSampleId :
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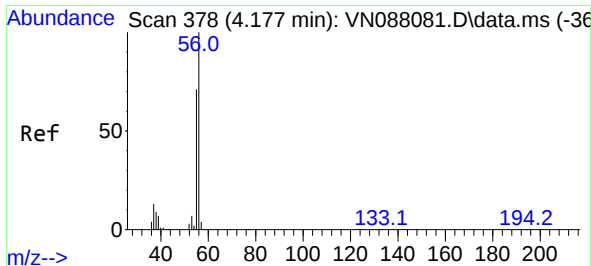
Tgt Ion:142 Resp: 133
Ion Ratio Lower Upper
142 100
127 0.0 38.0 57.0#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 3.318 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.018 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion: 59 Resp: 2475
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

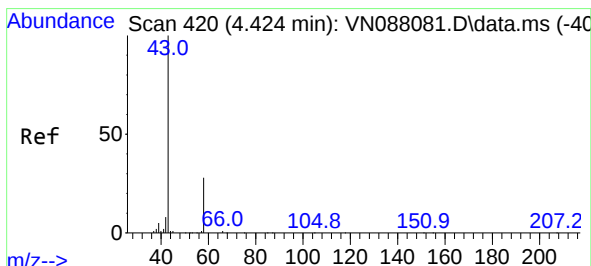
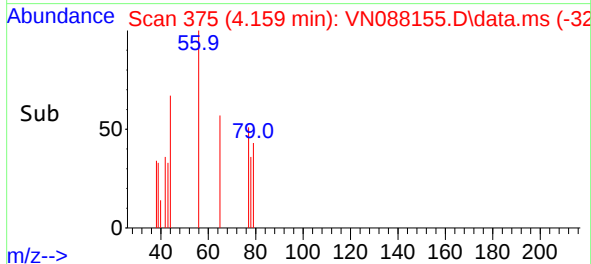
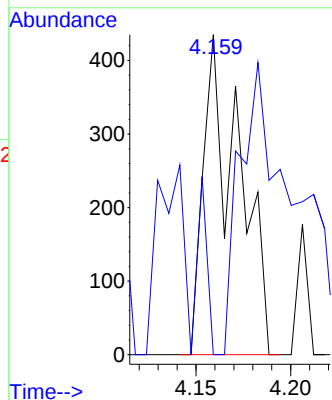
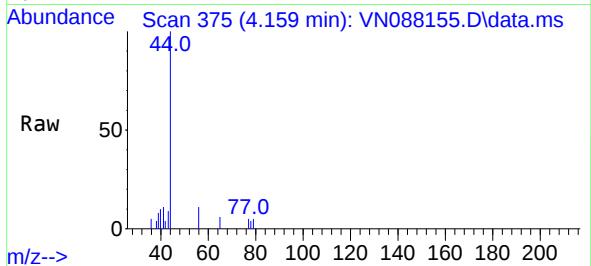




#13
Acrolein
Concen: 0.666 ug/l
RT: 4.159 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

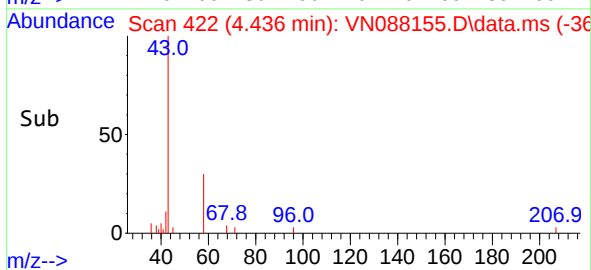
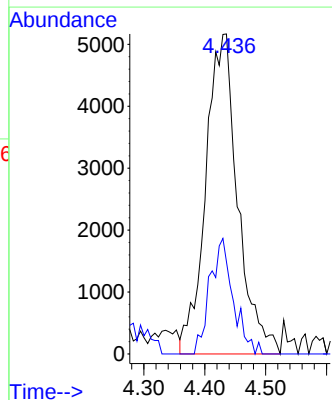
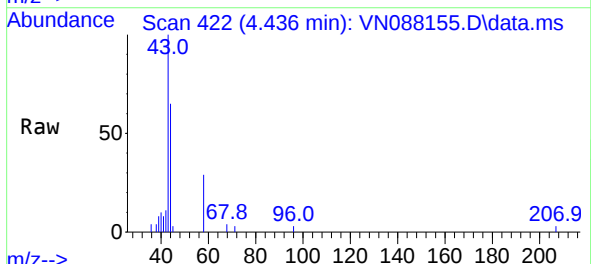
Instrument :
MSVOA_N
ClientSampleId :
MW-13RE

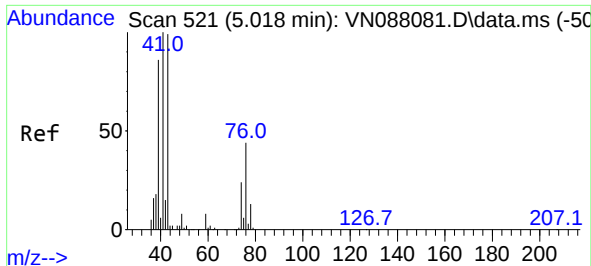
Tgt Ion: 56 Resp: 559
Ion Ratio Lower Upper
56 100
55 58.7 57.3 85.9



#16
Acetone
Concen: 8.685 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion: 43 Resp: 18890
Ion Ratio Lower Upper
43 100
58 28.9 22.6 33.8

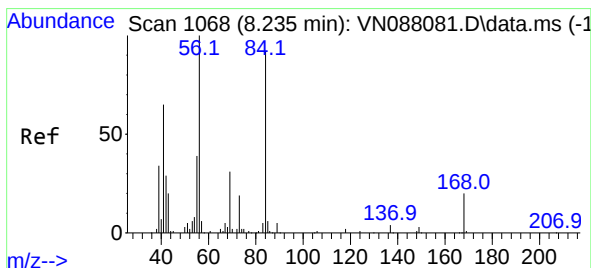
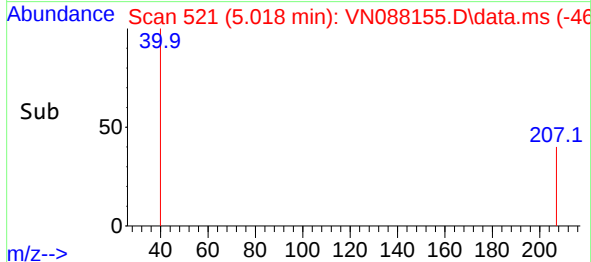
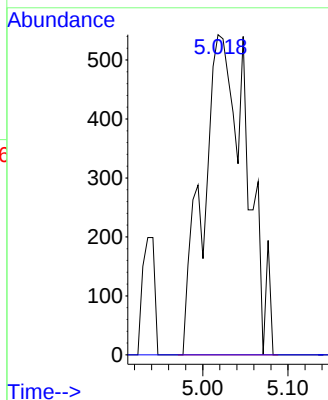
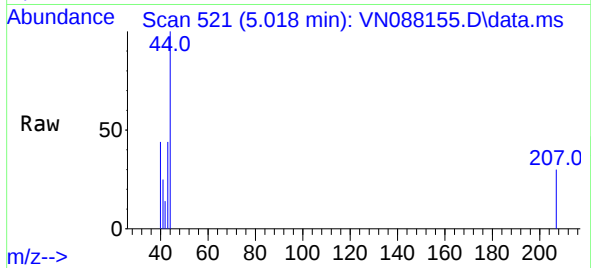




#18
Methyl Acetate
Concen: 0.434 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

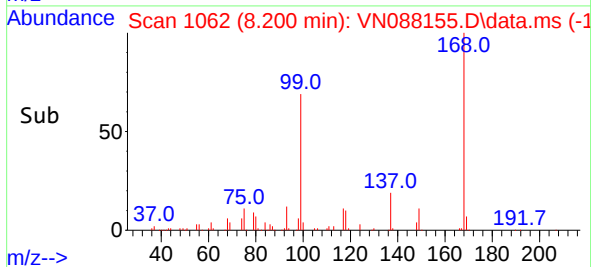
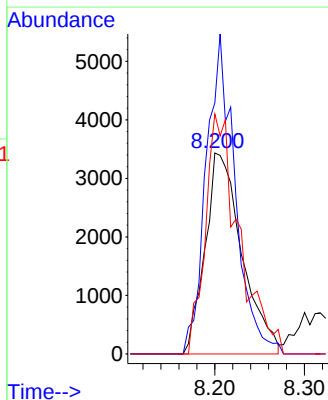
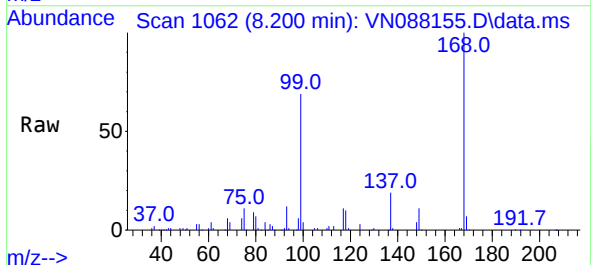
Instrument :
MSVOA_N
ClientSampleId :
MW-13RE

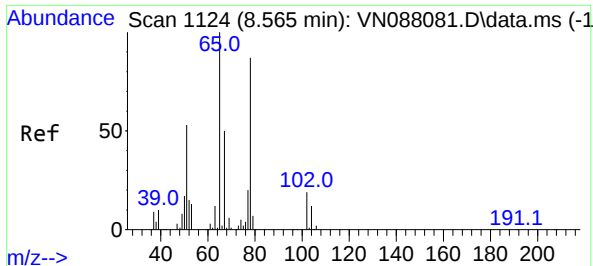
Tgt Ion: 43 Resp: 1932
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#



#31
Cyclohexane
Concen: 1.613 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.036 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion: 56 Resp: 9778
Ion Ratio Lower Upper
56 100
69 124.9 23.7 35.5#
84 119.4 64.7 97.1#

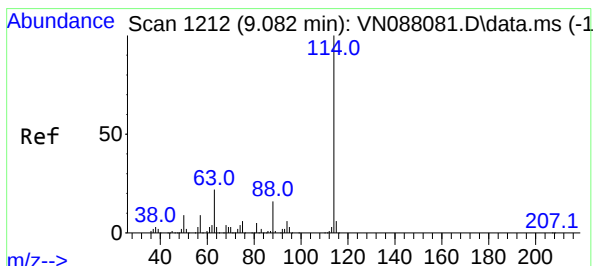
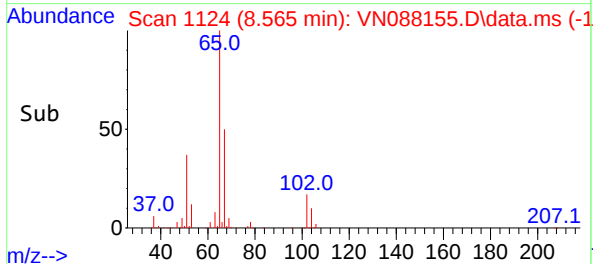
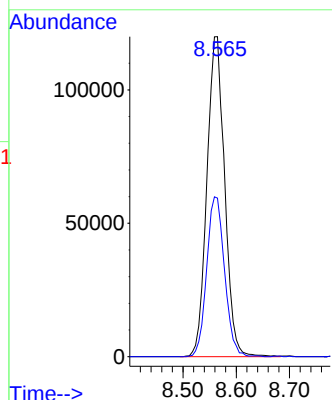
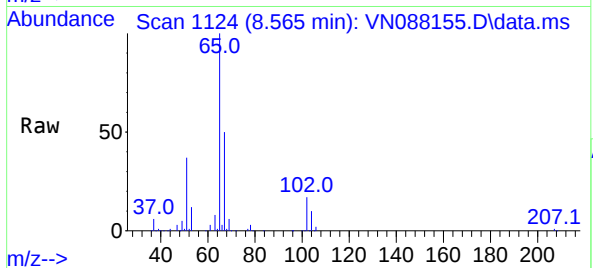




#33
1,2-Dichloroethane-d4
Concen: 64.118 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.006 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

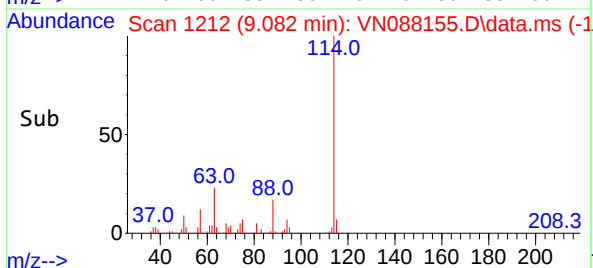
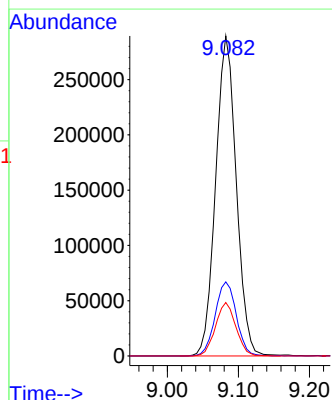
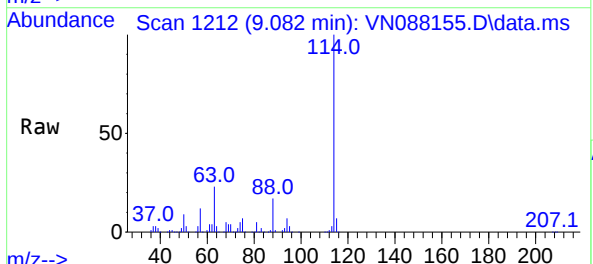
Instrument :
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ClientSampleId :
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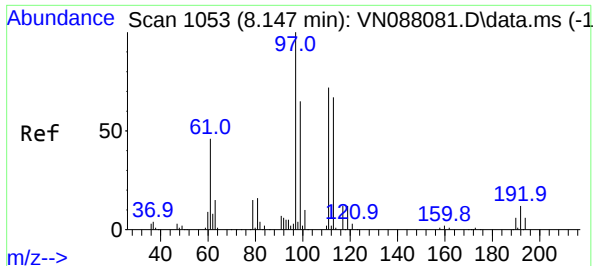
Tgt Ion: 65 Resp: 277597
Ion Ratio Lower Upper
65 100
67 50.3 0.0 100.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion: 114 Resp: 581822
Ion Ratio Lower Upper
114 100
63 23.1 0.0 45.2
88 16.7 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.177 ug/l

RT: 8.153 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VN088155.D

Acq: 29 Oct 2025 13:24

Instrument :

MSVOA_N

ClientSampleId :

MW-13RE

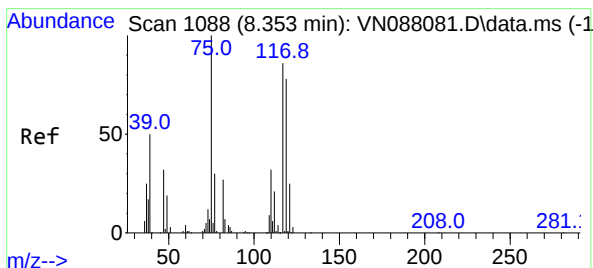
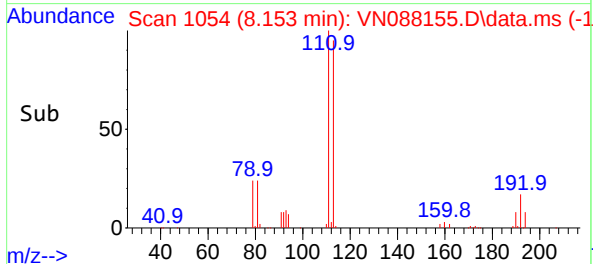
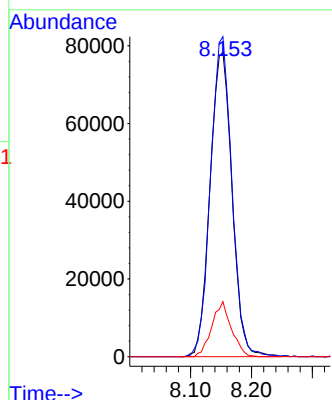
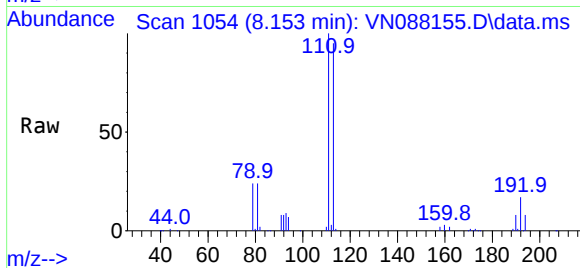
Tgt Ion:113 Resp: 196128

Ion Ratio Lower Upper

113 100

111 102.5 82.8 124.2

192 16.1 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.699 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088155.D

Acq: 29 Oct 2025 13:24

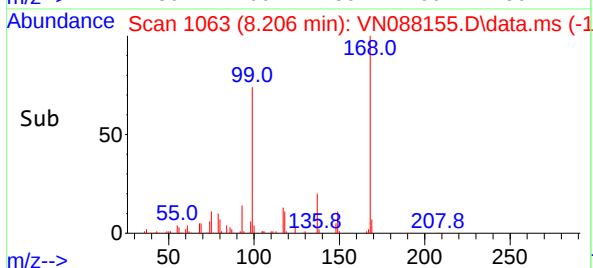
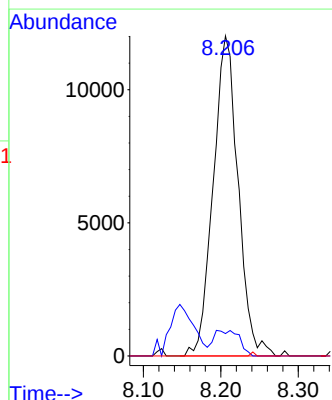
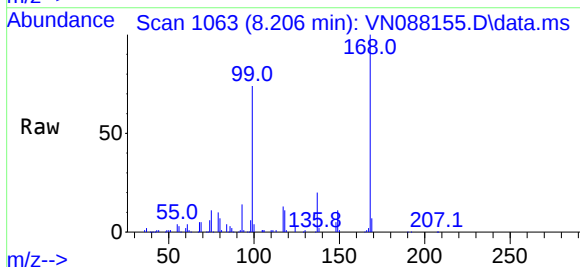
Tgt Ion: 75 Resp: 26819

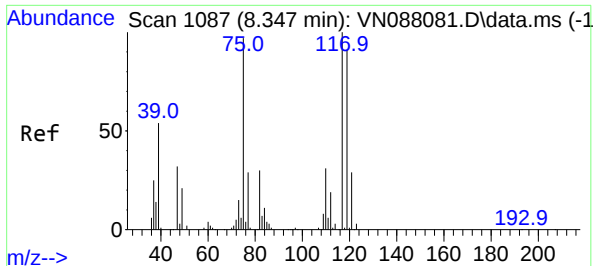
Ion Ratio Lower Upper

75 100

110 8.2 15.9 47.6#

77 0.0 24.4 36.6#

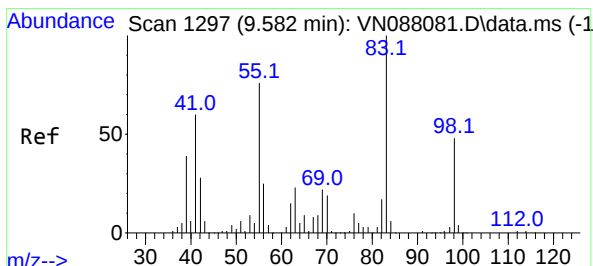
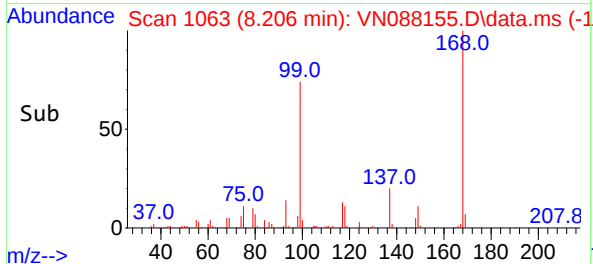
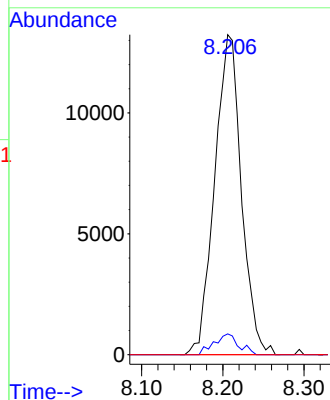
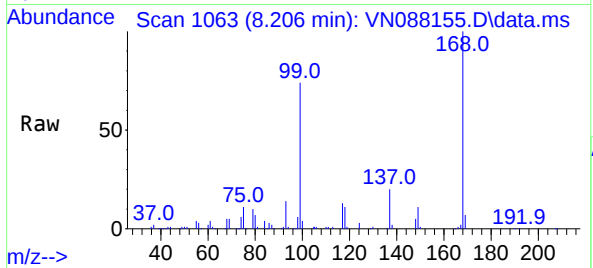




#38
Carbon Tetrachloride
Concen: 5.129 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

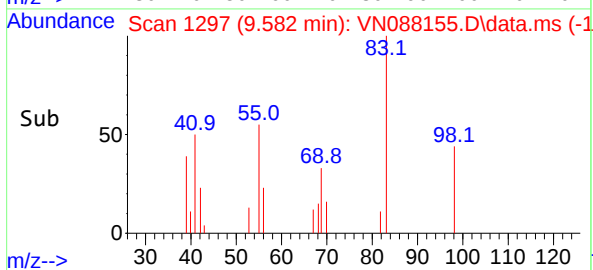
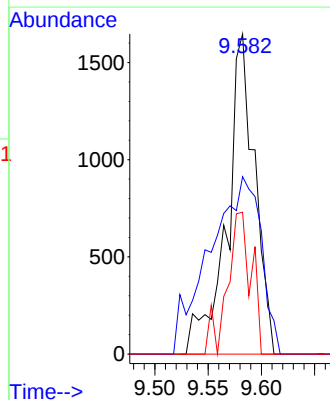
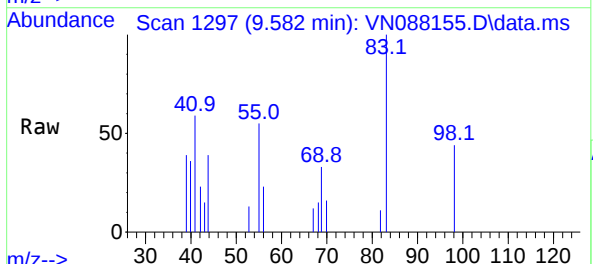
Instrument :
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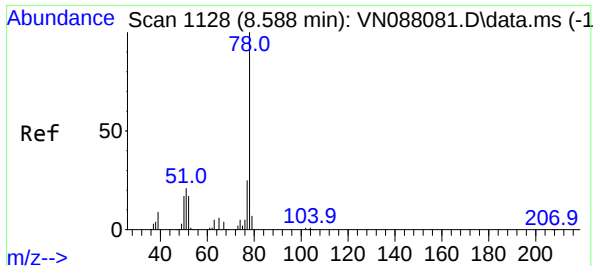
Tgt Ion:117 Resp: 30234
Ion Ratio Lower Upper
117 100
119 6.5 79.0 118.6#
121 0.0 25.0 37.6#



#39
Methylcyclohexane
Concen: 0.405 ug/l
RT: 9.582 min Scan# 1297
Delta R.T. -0.000 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion: 83 Resp: 2973
Ion Ratio Lower Upper
83 100
55 55.4 64.6 96.8#
98 44.3 38.4 57.6

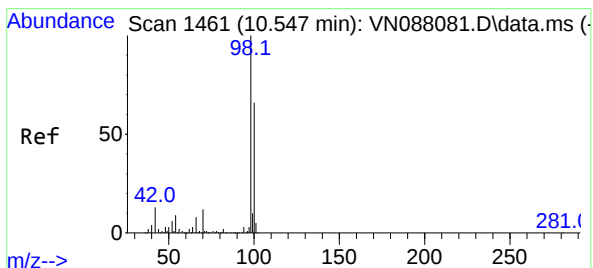
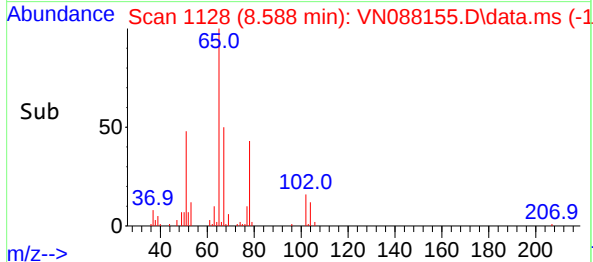
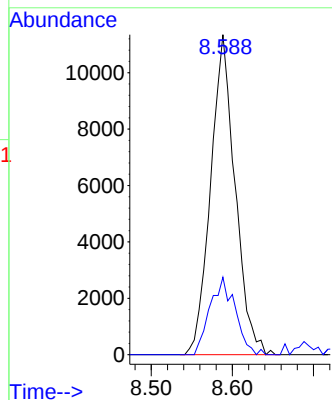
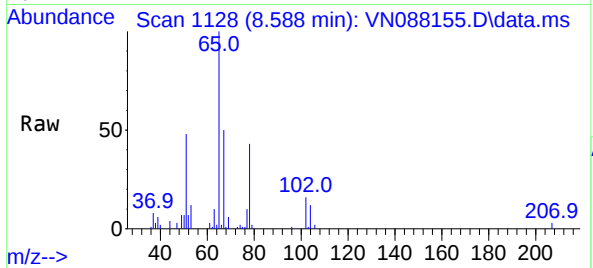




#40
Benzene
Concen: 1.370 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

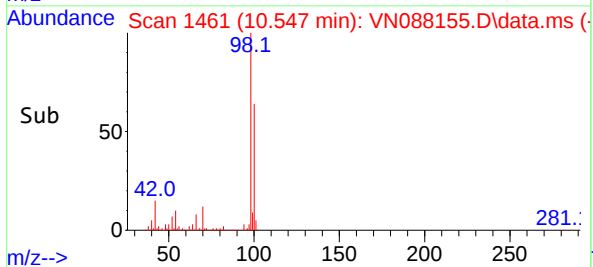
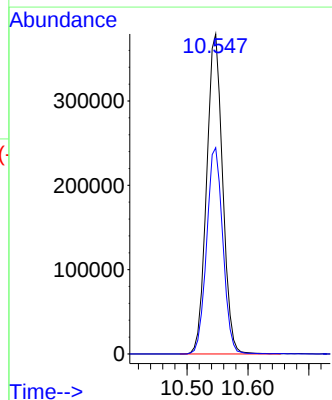
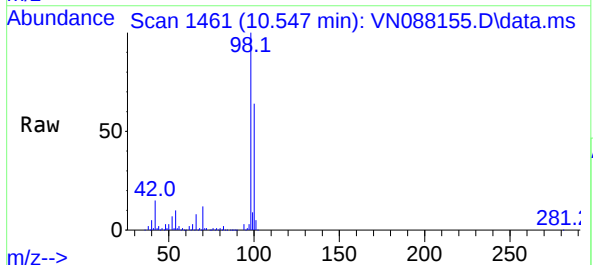
Instrument :
MSVOA_N
ClientSampleId :
MW-13RE

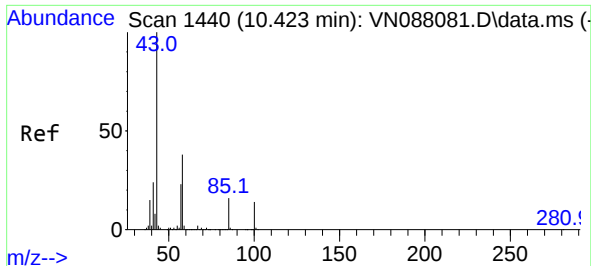
Tgt Ion: 78 Resp: 23811
Ion Ratio Lower Upper
78 100
77 24.2 19.7 29.5



#50
Toluene-d8
Concen: 46.064 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion: 98 Resp: 693766
Ion Ratio Lower Upper
98 100
100 65.1 52.8 79.2

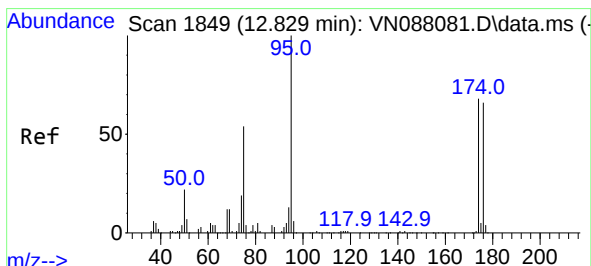
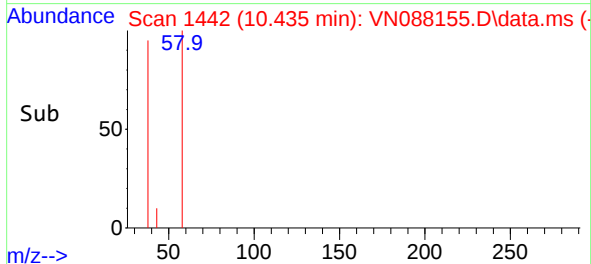
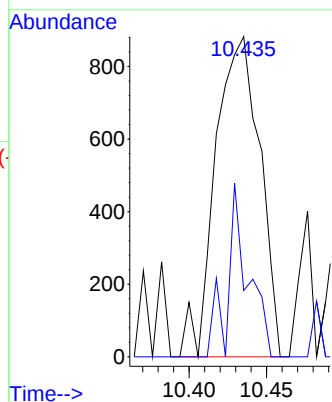
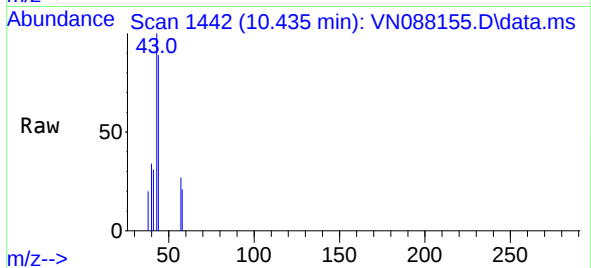




#51
4-Methyl-2-Pentanone
Concen: 0.263 ug/l
RT: 10.435 min Scan# 1440
Delta R.T. 0.012 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

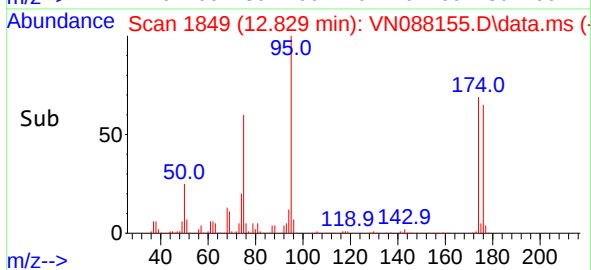
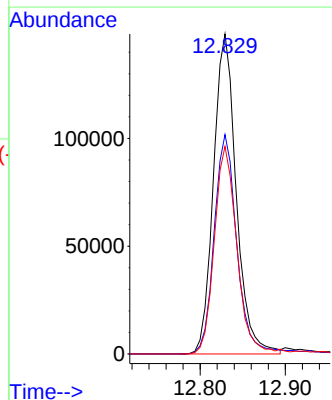
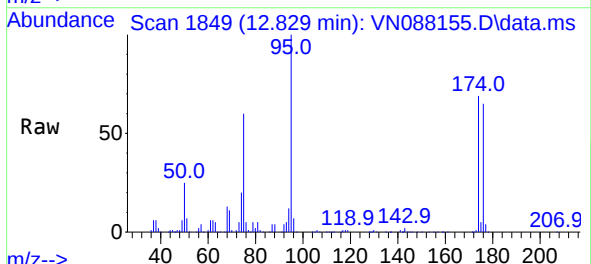
Instrument :
MSVOA_N
ClientSampleId :
MW-13RE

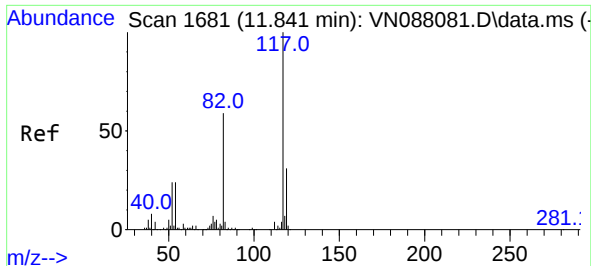
Tgt Ion: 43 Resp: 1759
Ion Ratio Lower Upper
43 100
58 25.2 29.6 44.4#



#62
4-Bromofluorobenzene
Concen: 51.853 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion: 95 Resp: 275802
Ion Ratio Lower Upper
95 100
174 69.3 0.0 138.4
176 64.3 0.0 132.6

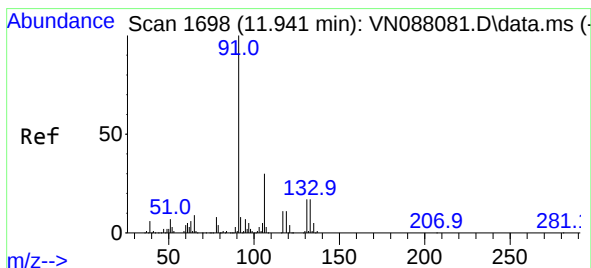
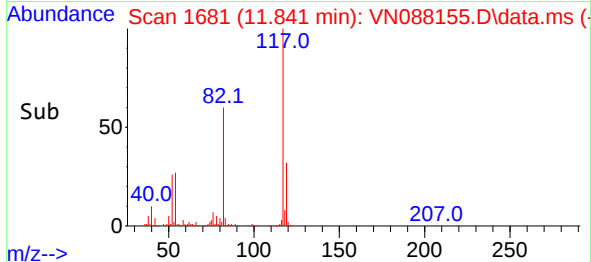
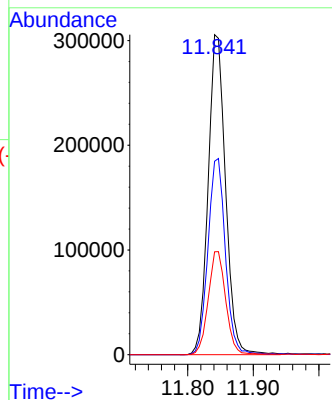
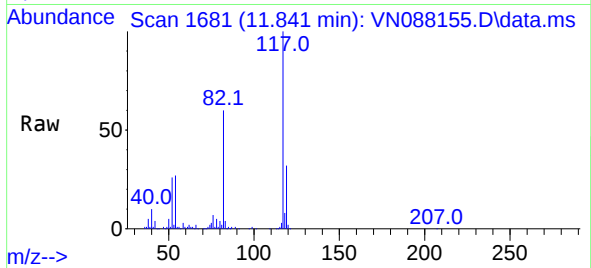




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

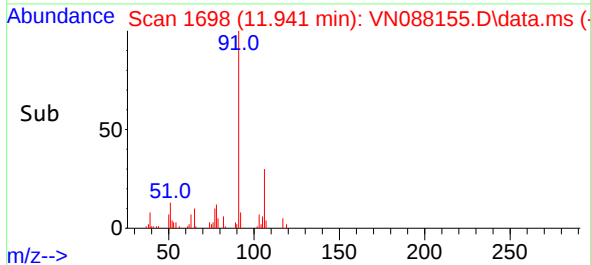
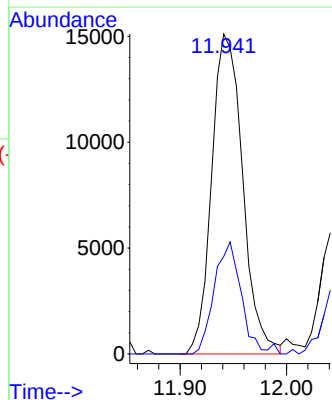
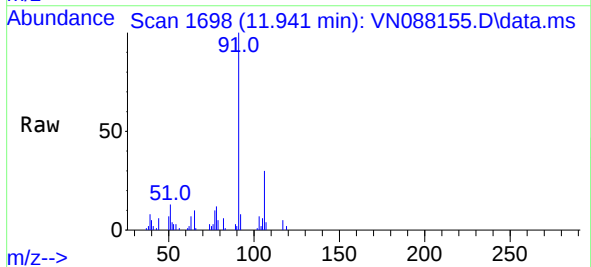
Instrument :
MSVOA_N
ClientSampleId :
MW-13RE

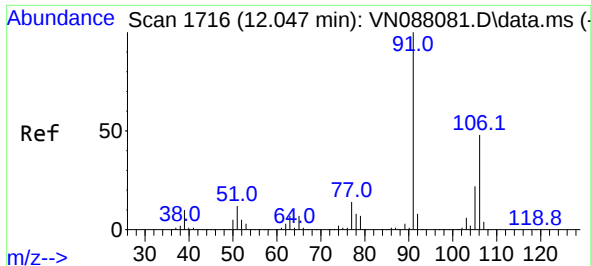
Tgt Ion:117 Resp: 565215
Ion Ratio Lower Upper
117 100
82 60.4 47.4 71.2
119 32.2 24.3 36.5



#67
Ethyl Benzene
Concen: 1.354 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion: 91 Resp: 30504
Ion Ratio Lower Upper
91 100
106 30.5 24.1 36.1

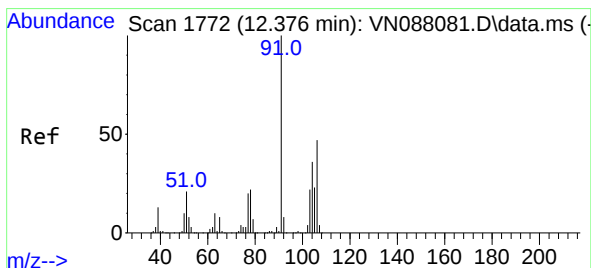
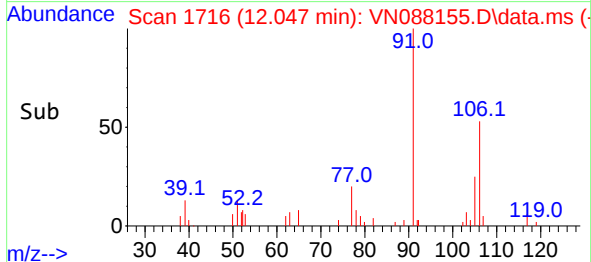
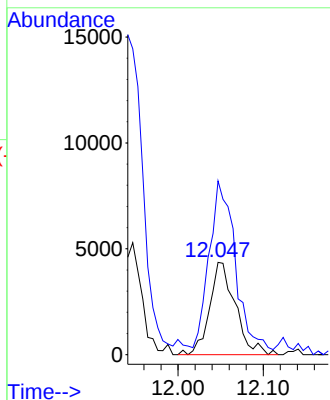
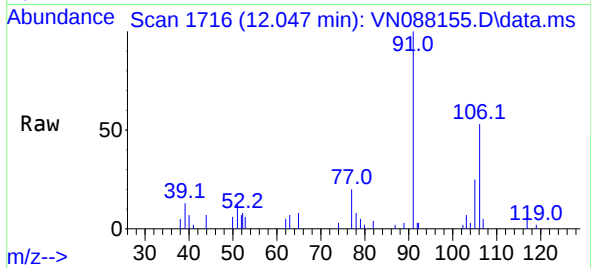




#68
m/p-Xylenes
Concen: 1.088 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

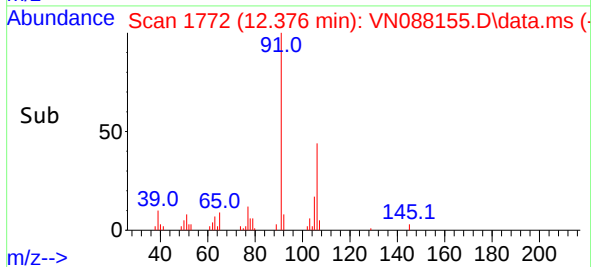
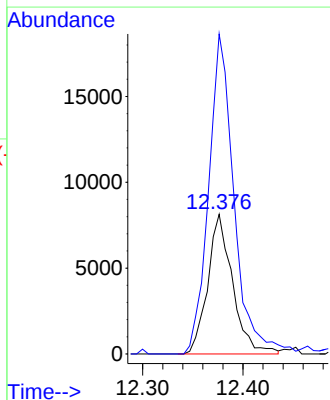
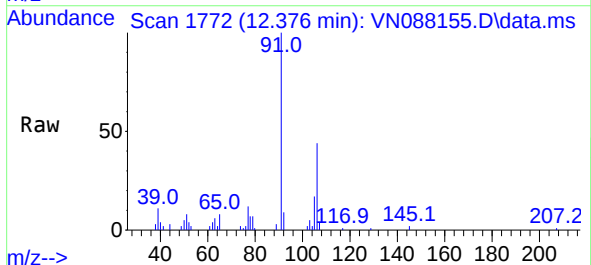
Instrument :
MSVOA_N
ClientSampleId :
MW-13RE

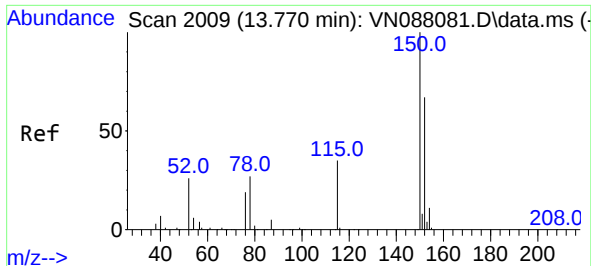
Tgt Ion:106 Resp: 9187
Ion Ratio Lower Upper
106 100
91 185.6 169.3 253.9



#69
o-Xylene
Concen: 1.749 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion:106 Resp: 13994
Ion Ratio Lower Upper
106 100
91 234.7 111.4 334.2

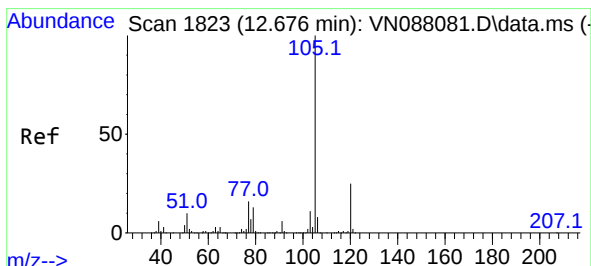
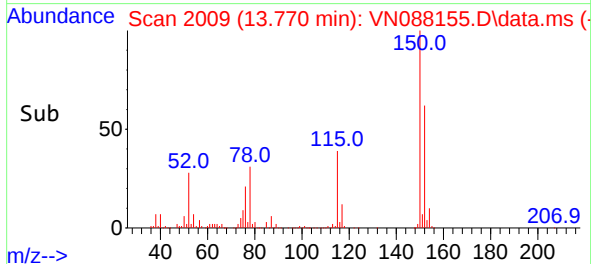
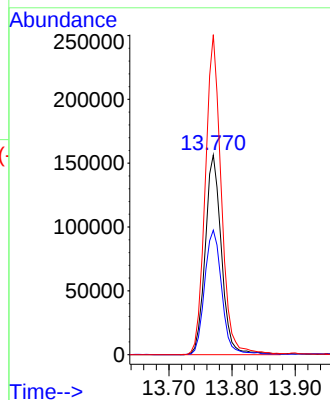
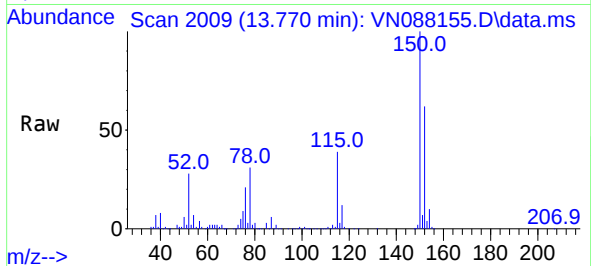




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

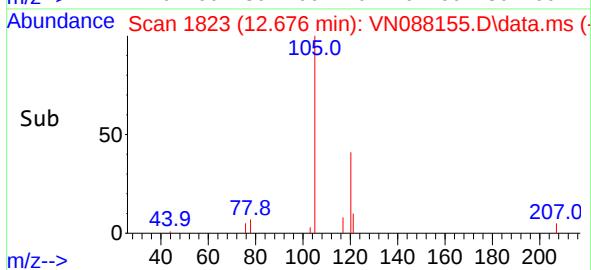
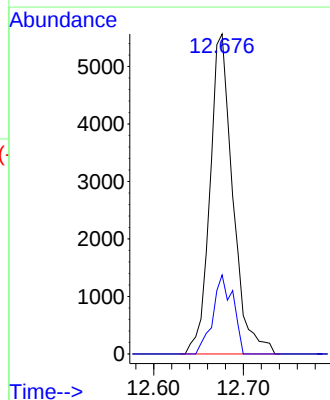
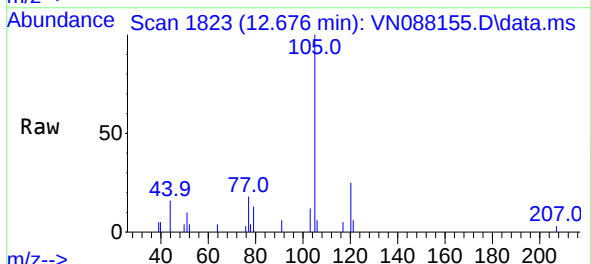
Instrument :
MSVOA_N
ClientSampleId :
MW-13RE

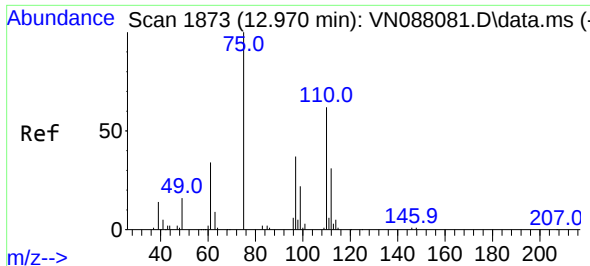
Tgt Ion:152 Resp: 279473
Ion Ratio Lower Upper
152 100
115 66.2 32.3 96.8
150 158.0 0.0 351.0



#73
Isopropylbenzene
Concen: 0.458 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion:105 Resp: 9866
Ion Ratio Lower Upper
105 100
120 21.6 12.8 38.3

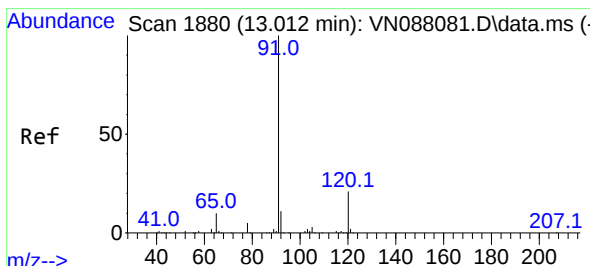
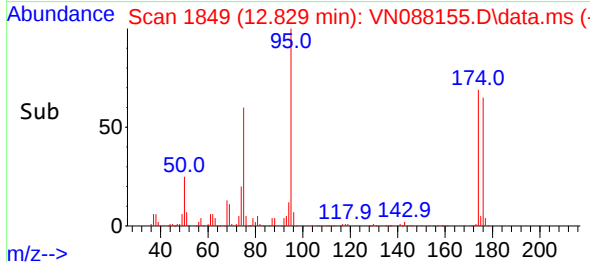
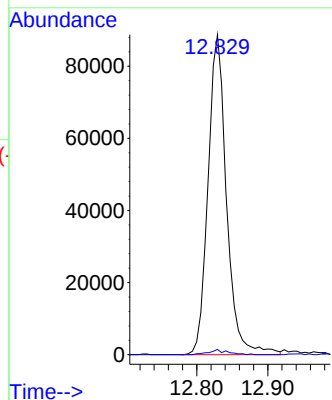
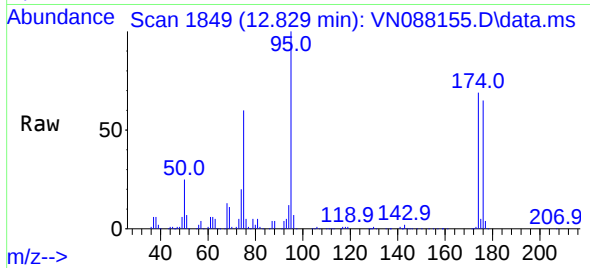




#76
1,2,3-Trichloropropane
Concen: 25.191 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

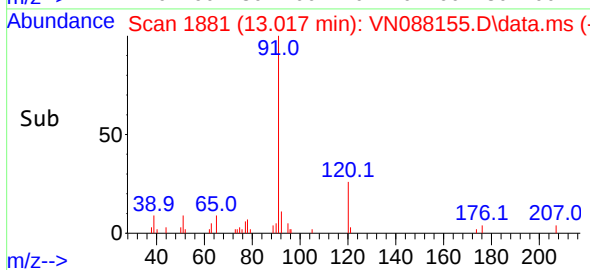
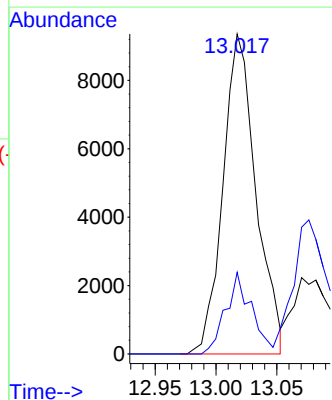
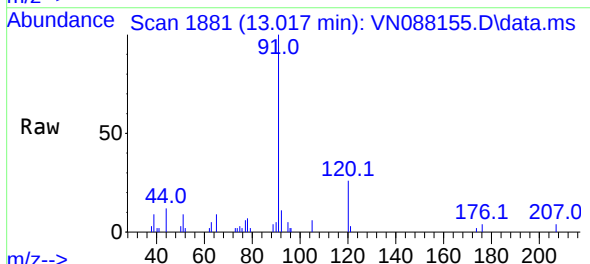
Instrument :
MSVOA_N
ClientSampleId :
MW-13RE

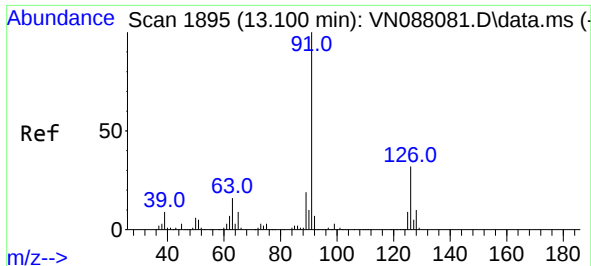
Tgt Ion: 75 Resp: 160960
Ion Ratio Lower Upper
75 100
77 1.6 89.1 267.4#



#78
n-propylbenzene
Concen: 0.670 ug/l
RT: 13.017 min Scan# 1881
Delta R.T. 0.005 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion: 91 Resp: 17632
Ion Ratio Lower Upper
91 100
120 19.9 10.7 32.1

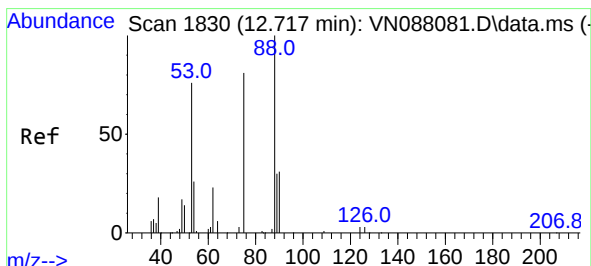
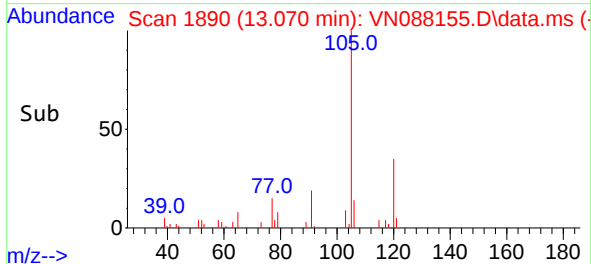
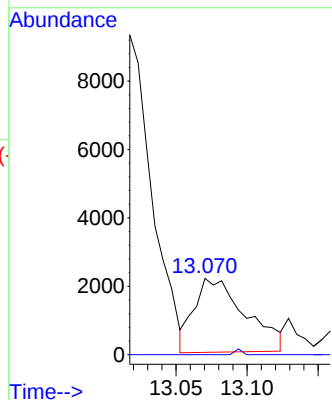
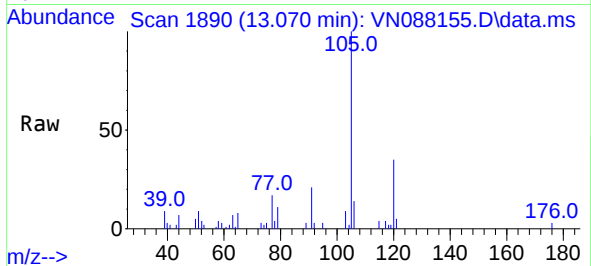




#79
2-Chlorotoluene
Concen: 0.364 ug/l
RT: 13.070 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

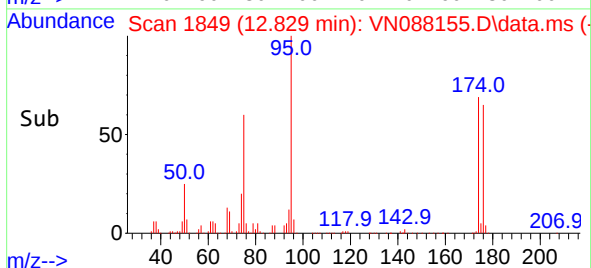
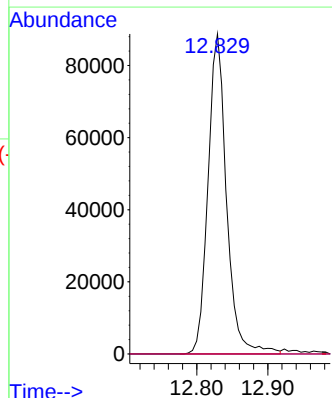
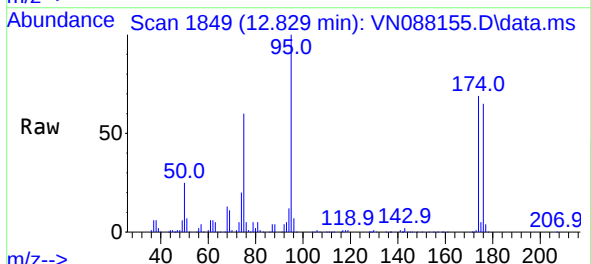
Instrument :
MSVOA_N
ClientSampleId :
MW-13RE

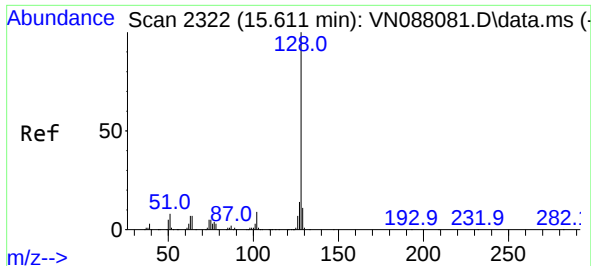
Tgt Ion: 91 Resp: 5454
Ion Ratio Lower Upper
91 100
126 0.0 16.1 48.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.271 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088155.D
Acq: 29 Oct 2025 13:24

Tgt Ion: 75 Resp: 160960
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.0 35.6 53.4#





#95

Naphthalene

Concen: 0.647 ug/l

RT: 15.623 min Scan# 21

Delta R.T. 0.012 min

Lab File: VN088155.D

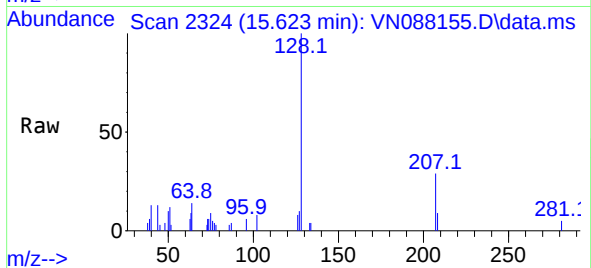
Acq: 29 Oct 2025 13:24

Instrument :

MSVOA_N

ClientSampleId :

MW-13RE



Tgt Ion:128 Resp: 11999

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 3.6 8.6 12.8#

