

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\  
 Data File : VN058218.D  
 Acq On : 19 Sep 2019 20:44  
 Operator : JC/SP  
 Sample : K4896-13  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW201D-20190912

Quant Time: Sep 20 08:22:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 19 09:27:53 2019  
 Response via : Initial Calibration

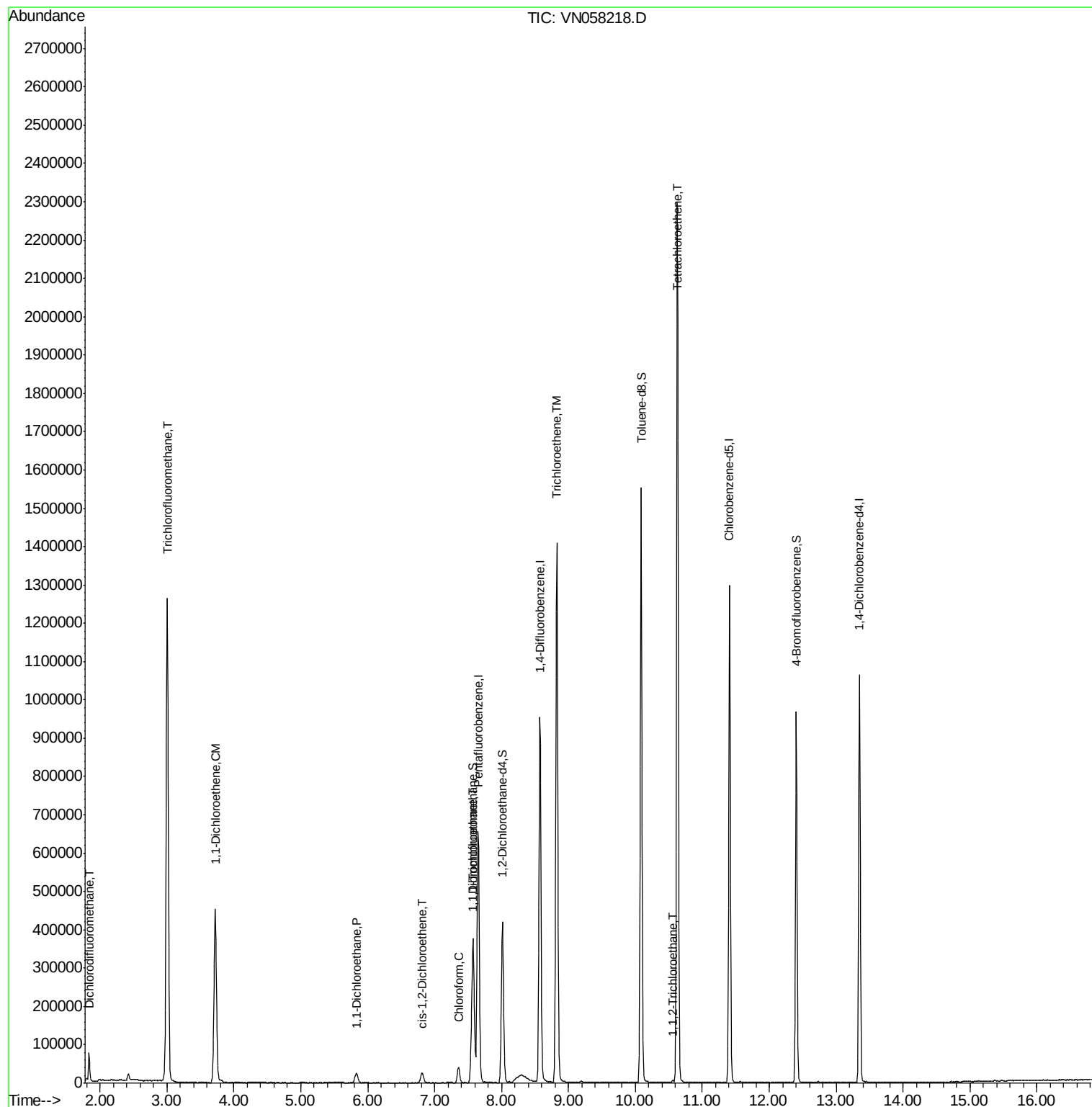
| Internal Standards          | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 7.65  | 168  | 514734   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.57  | 114  | 827068   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 708209   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.35 | 152  | 276459   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.01  | 65   | 367827   | 51.31   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 102.62% |          |
| 35) Dibromofluoromethane    | 7.58  | 113  | 258050   | 51.32   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 102.64% |          |
| 50) Toluene-d8              | 10.08 | 98   | 1042580  | 53.22   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 106.44% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 327282   | 44.98   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 89.96%  |          |
| Target Compounds            |       |      |          |         |         |          |
| 2) Dichlorodifluoromethane  | 1.83  | 85   | 53728    | 12.706  | ug/l    | 96       |
| 7) Trichlorofluoromethane   | 3.00  | 101  | 1180696  | 204.571 | ug/l    | 100      |
| 12) 1,1-Dichloroethene      | 3.72  | 96   | 214572   | 68.076  | ug/l    | 97       |
| 24) 1,1-Dichloroethane      | 5.83  | 63   | 38972    | 4.222   | ug/l #  | 96       |
| 27) cis-1,2-Dichloroethene  | 6.81  | 96   | 13906    | 2.664   | ug/l    | 90       |
| 30) Chloroform              | 7.36  | 83   | 41623    | 4.189   | ug/l    | 93       |
| 32) 1,1,1-Trichloroethane   | 7.55  | 97   | 58132    | 7.685   | ug/l    | 96       |
| 44) Trichloroethene         | 8.82  | 130  | 494565   | 110.939 | ug/l    | 99       |
| 55) 1,1,2-Trichloroethane   | 10.56 | 97   | 1960     | 0.387   | ug/l    | 96       |
| 64) Tetrachloroethene       | 10.63 | 164  | 503333   | 145.795 | ug/l    | 99       |

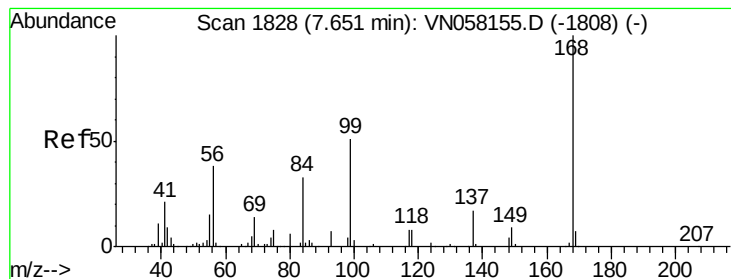
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Sep 19 09:27:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058218.D

Acq: 19 Sep 2019 20:44

Instrument :

MSVOA\_N

ClientSampleId :

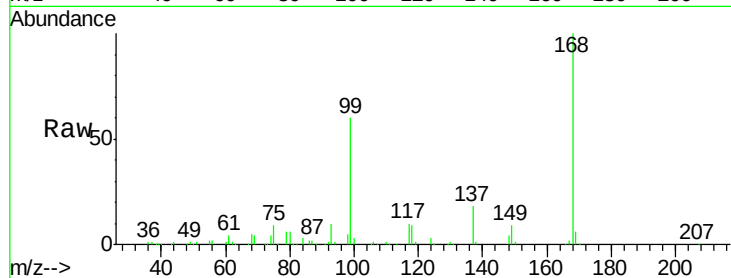
MW201D-20190912

Tot Ion:168 Resp: 514734

Ion Ratio Lower Upper

168 100

99 60.2 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

250000

200000

150000

100000

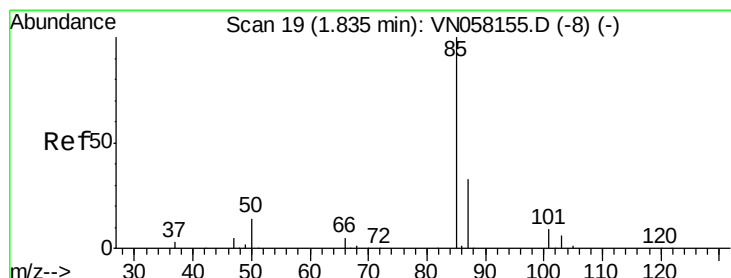
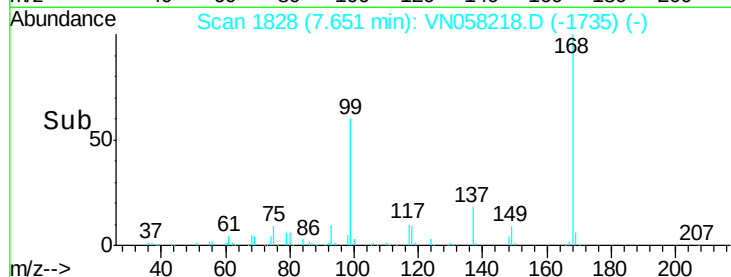
50000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 12.706 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN058218.D

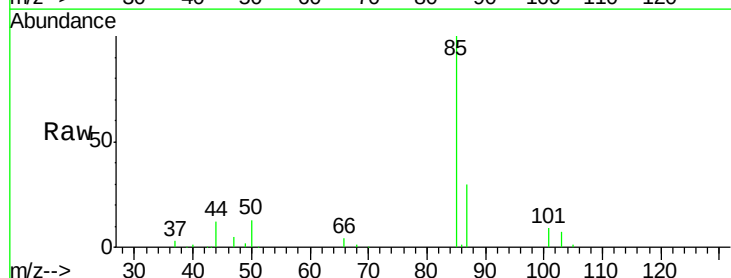
Acq: 19 Sep 2019 20:44

Tgt Ion: 85 Resp: 53728

Ion Ratio Lower Upper

85 100

87 30.4 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

40000

30000

20000

10000

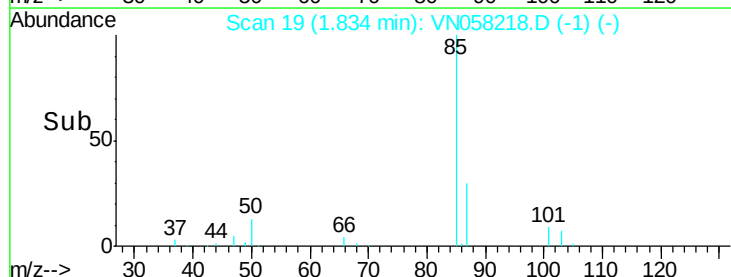
0

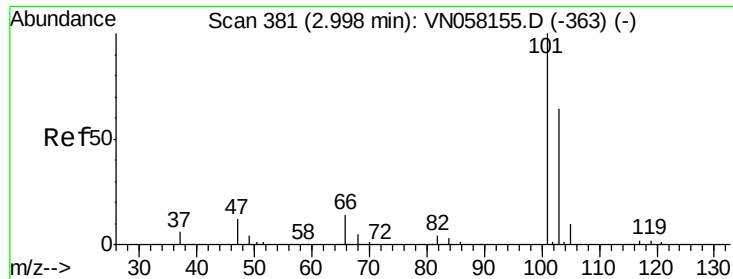
1.80

1.85

1.90

Time-->



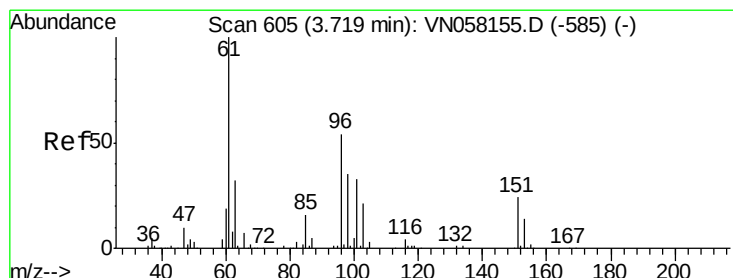
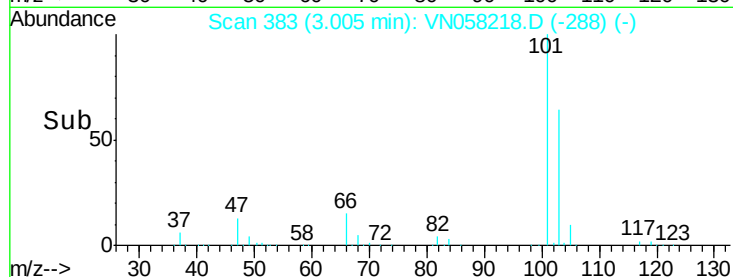
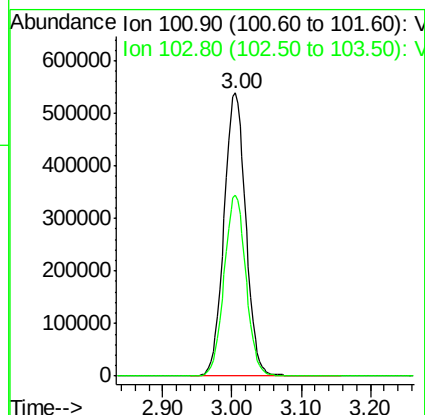
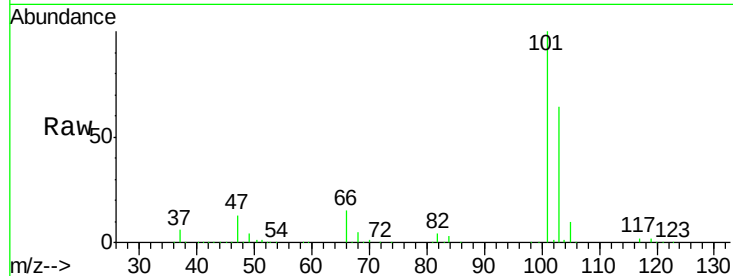


#7

Trichlorofluoromethane  
Concen: 204.571 ug/l  
RT: 3.00 min Scan# 383  
Delta R.T. 0.01 min  
Lab File: VN058218.D  
Acq: 19 Sep 2019 20:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW201D-20190912

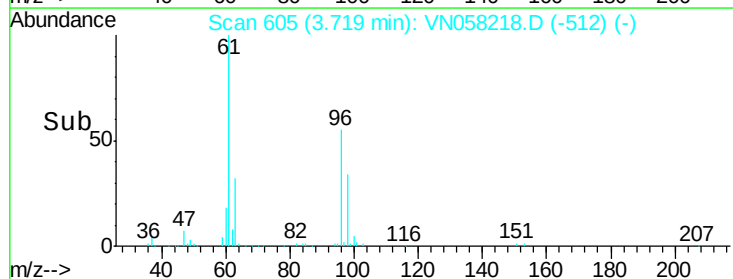
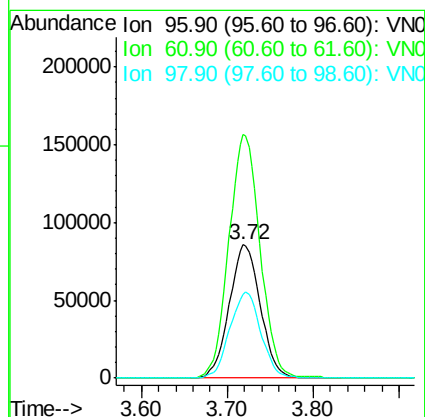
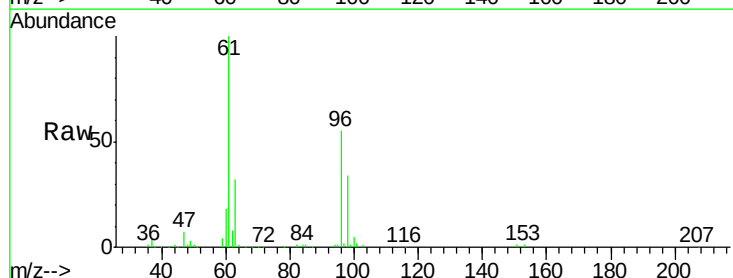
Tot Ion:101 Resp: 1180696  
Ion Ratio Lower Upper  
101 100  
103 64.0 51.0 76.6

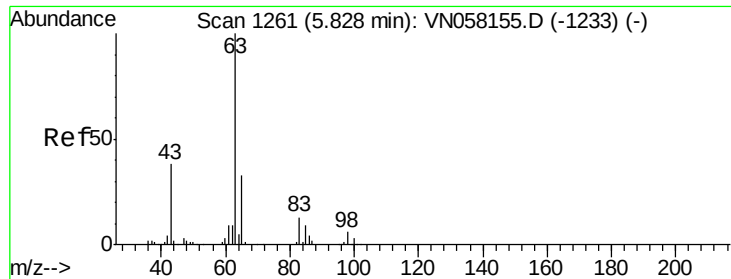


#12

1,1-Dichloroethene  
Concen: 68.076 ug/l  
RT: 3.72 min Scan# 605  
Delta R.T. 0.00 min  
Lab File: VN058218.D  
Acq: 19 Sep 2019 20:44

Tgt Ion: 96 Resp: 214572  
Ion Ratio Lower Upper  
96 100  
61 183.1 149.5 224.3  
98 62.7 52.4 78.6

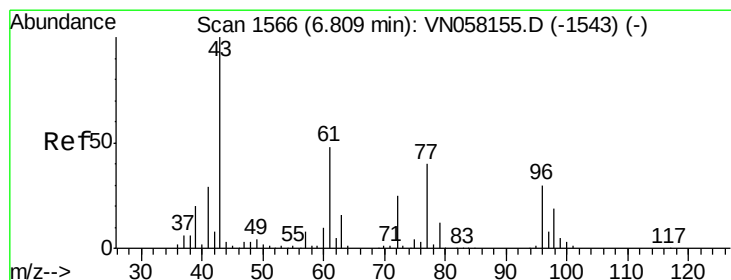
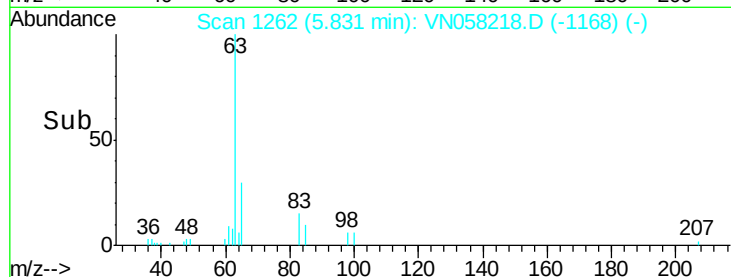
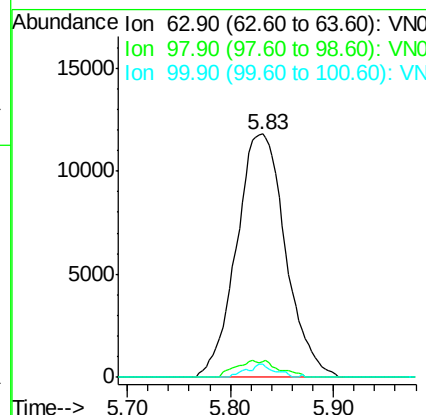
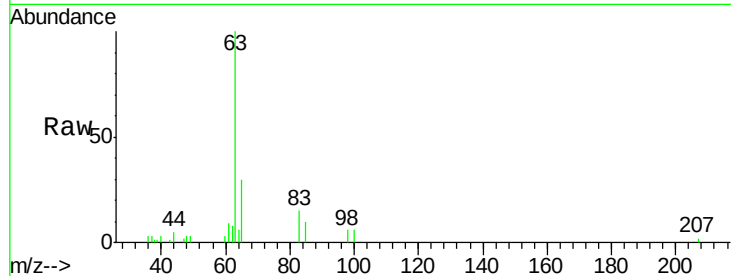




#24  
 1,1-Dichloroethane  
 Concen: 4.222 ug/l  
 RT: 5.83 min Scan# 1262  
 Delta R.T. 0.00 min  
 Lab File: VN058218.D  
 Acq: 19 Sep 2019 20:44

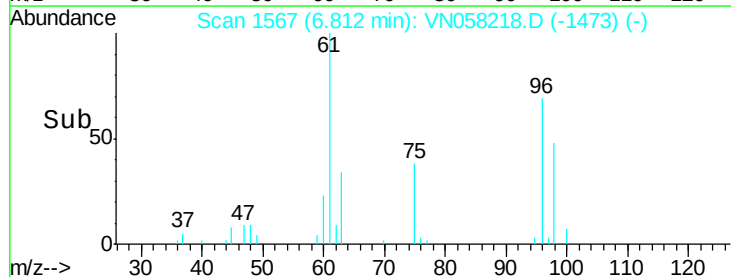
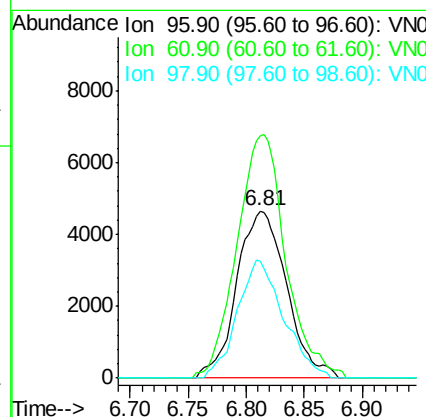
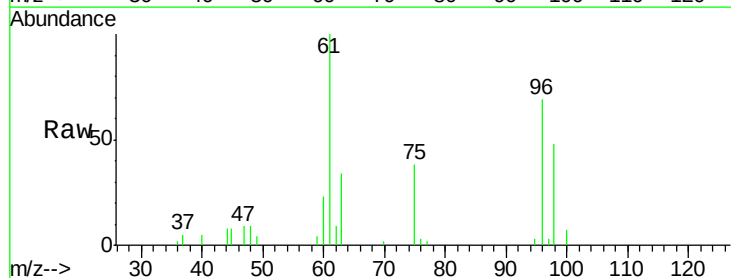
Instrument :  
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 ClientSampleId :  
 MW201D-20190912

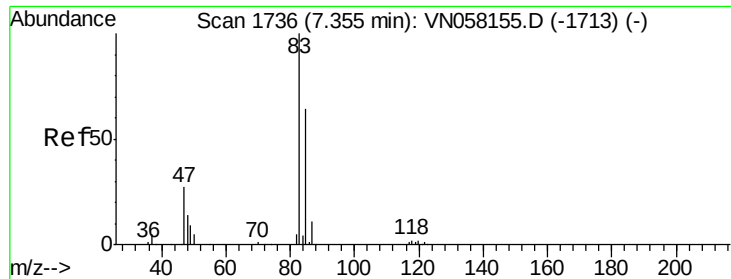
Tot Ion: 63 Resp: 38972  
 Ion Ratio Lower Upper  
 63 100  
 98 6.3 2.9 8.6  
 100 5.7 1.8 5.3#



#27  
 cis-1,2-Dichloroethene  
 Concen: 2.664 ug/l  
 RT: 6.81 min Scan# 1567  
 Delta R.T. 0.00 min  
 Lab File: VN058218.D  
 Acq: 19 Sep 2019 20:44

Tgt Ion: 96 Resp: 13906  
 Ion Ratio Lower Upper  
 96 100  
 61 142.9 0.0 319.0  
 98 65.5 0.0 126.6

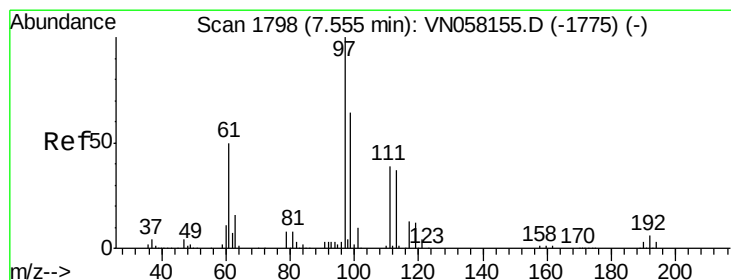
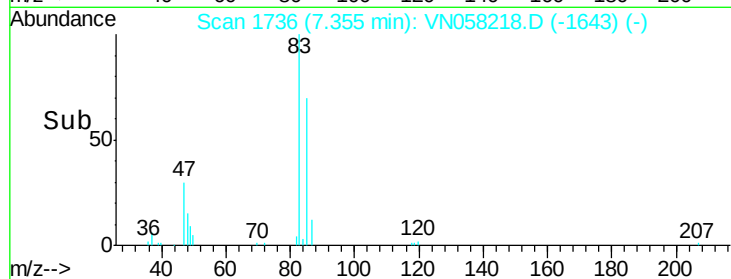
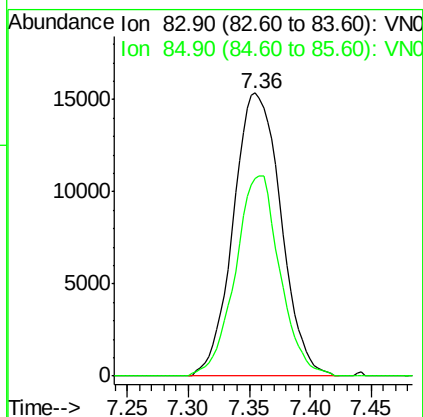
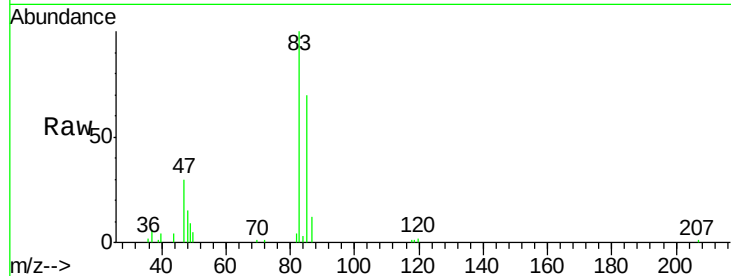




#30  
Chloroform  
Concen: 4.189 ug/l  
RT: 7.36 min Scan# 1736  
Delta R.T. -0.00 min  
Lab File: VN058218.D  
Acq: 19 Sep 2019 20:44

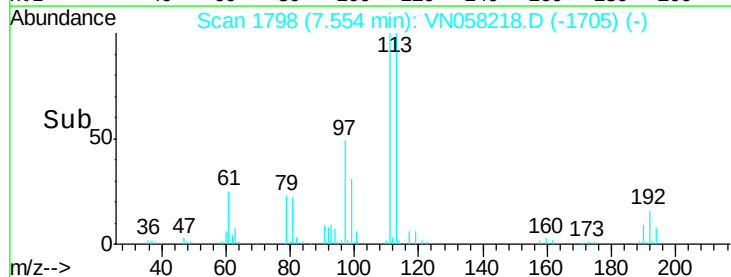
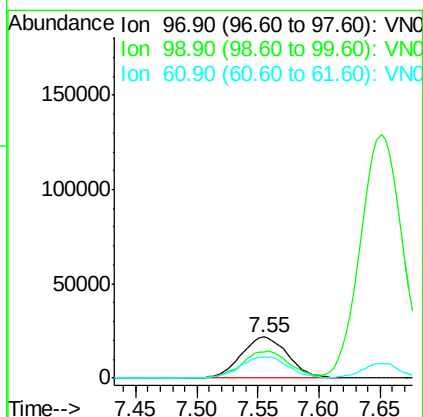
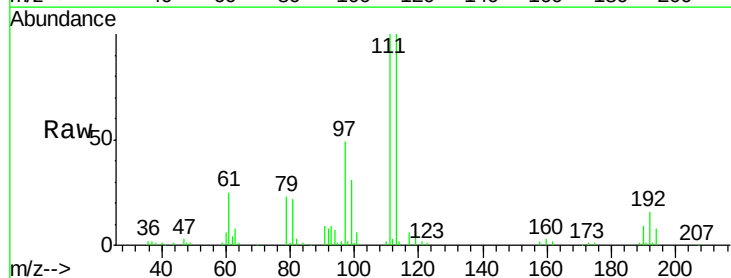
Instrument :  
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ClientSampleId :  
MW201D-20190912

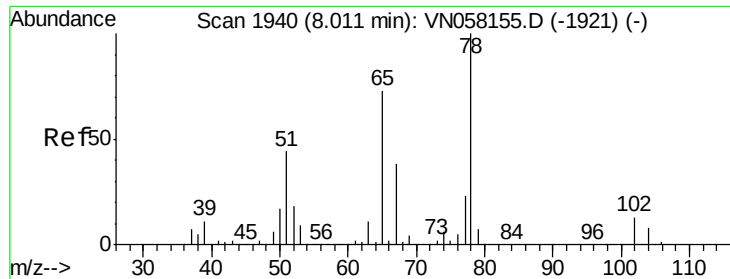
Tot Ion: 83 Resp: 41623  
Ion Ratio Lower Upper  
83 100  
85 69.7 51.4 77.2



#32  
1,1,1-Trichloroethane  
Concen: 7.685 ug/l  
RT: 7.55 min Scan# 1798  
Delta R.T. -0.00 min  
Lab File: VN058218.D  
Acq: 19 Sep 2019 20:44

Tgt Ion: 97 Resp: 58132  
Ion Ratio Lower Upper  
97 100  
99 65.9 50.9 76.3  
61 52.5 39.2 58.8

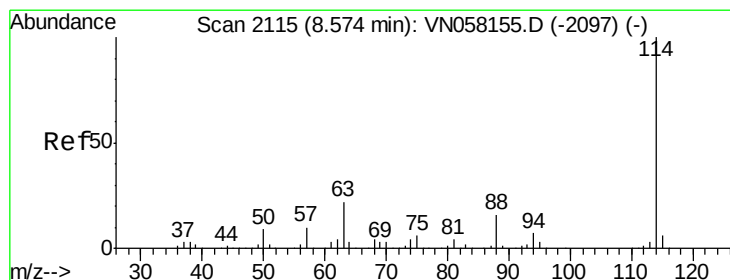
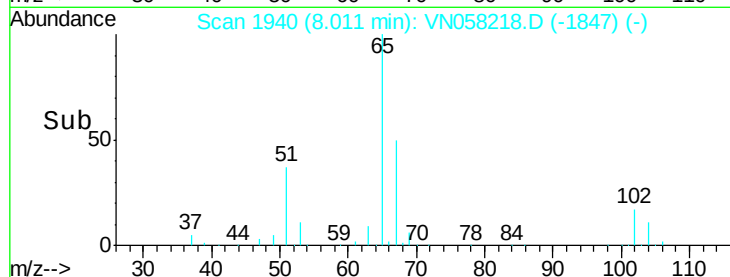
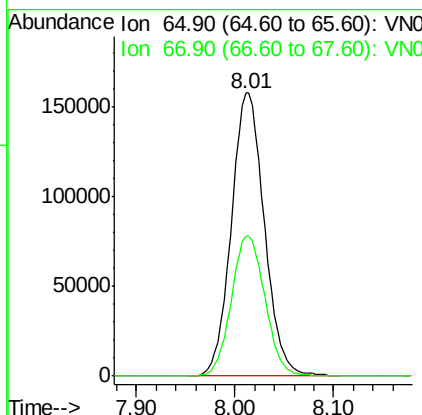
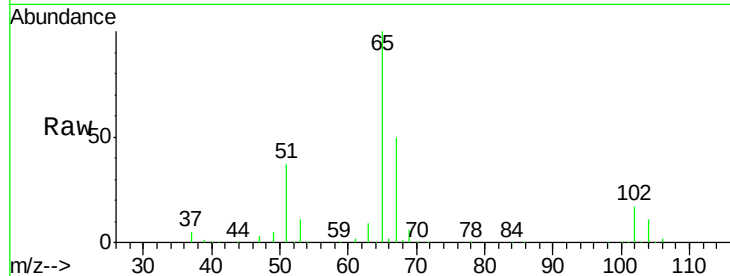




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.306 ug/l  
 RT: 8.01 min Scan# 1940  
 Delta R.T. -0.00 min  
 Lab File: VN058218.D  
 Acq: 19 Sep 2019 20:44

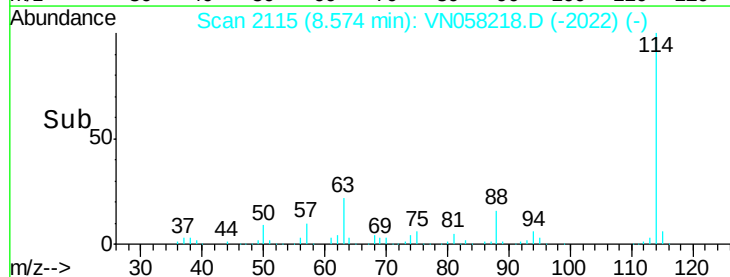
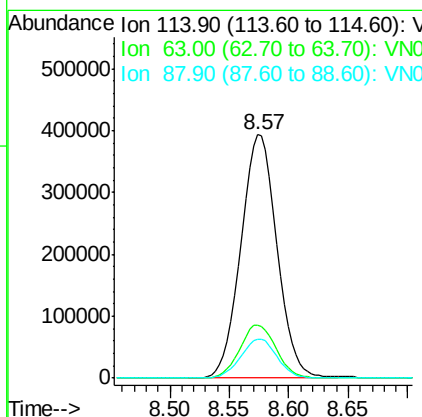
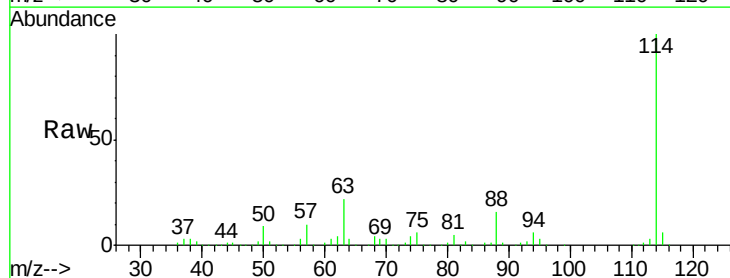
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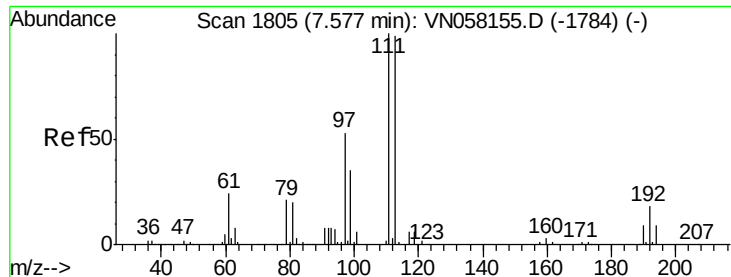
Tot Ion: 65 Resp: 367827  
 Ion Ratio Lower Upper  
 65 100  
 67 50.5 0.0 103.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2115  
 Delta R.T. -0.00 min  
 Lab File: VN058218.D  
 Acq: 19 Sep 2019 20:44

Tgt Ion: 114 Resp: 827068  
 Ion Ratio Lower Upper  
 114 100  
 63 21.9 0.0 44.2  
 88 16.1 0.0 31.6

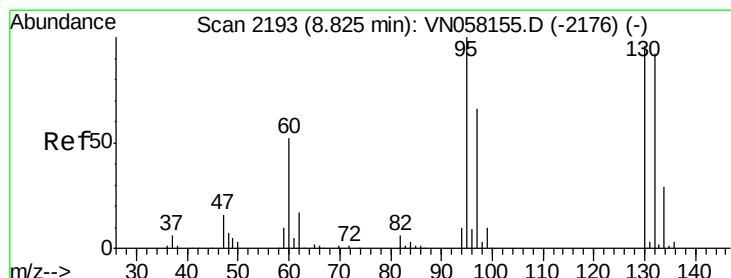
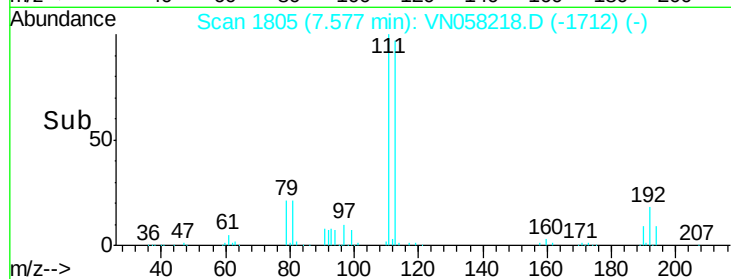
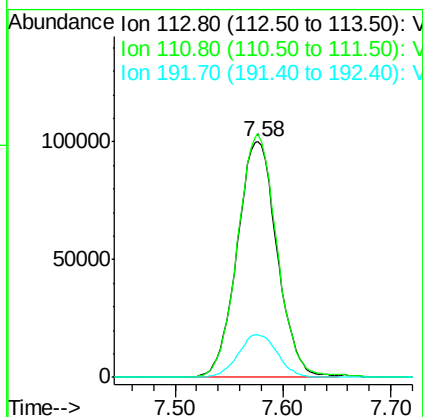
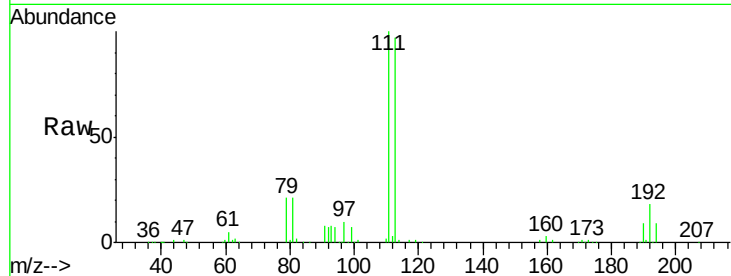




#35  
 Dibromofluoromethane  
 Concen: 51.324 ug/l  
 RT: 7.58 min Scan# 1805  
 Delta R.T. -0.00 min  
 Lab File: VN058218.D  
 Acq: 19 Sep 2019 20:44

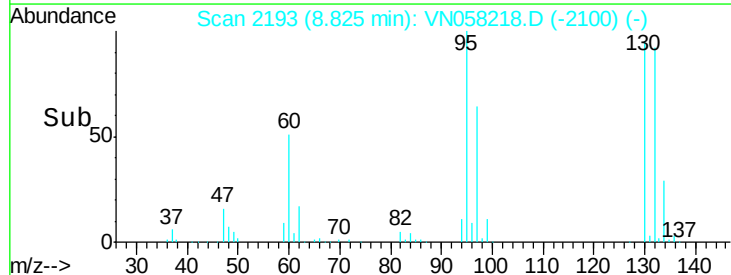
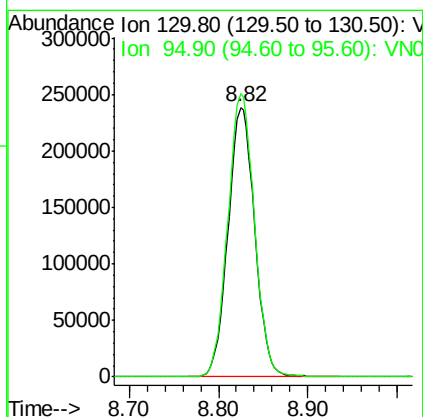
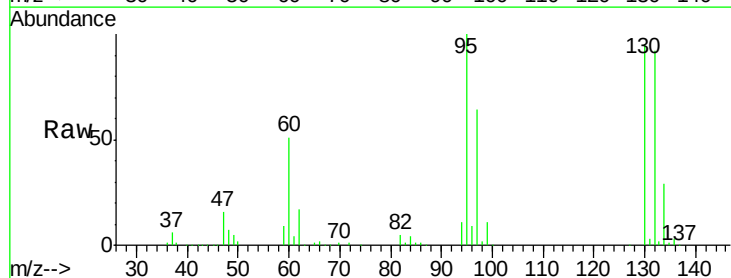
Instrument :  
 MSVOA\_N  
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 MW201D-20190912

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.1 | 81.8  | 122.6 |
| 192     | 18.0  | 14.5  | 21.7  |

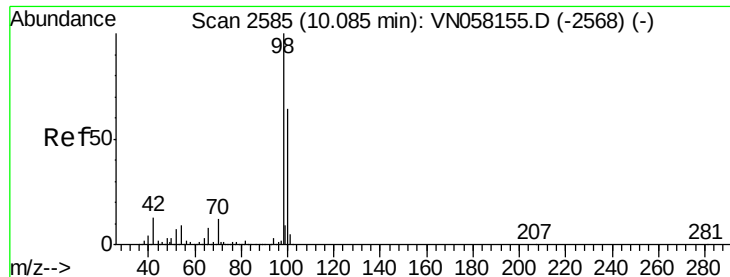


#44  
 Trichloroethene  
 Concen: 110.939 ug/l  
 RT: 8.82 min Scan# 2193  
 Delta R.T. -0.00 min  
 Lab File: VN058218.D  
 Acq: 19 Sep 2019 20:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 105.0 | 0.0   | 207.8 |







#50

Toluene-d8

Concen: 53.221 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058218.D

Acq: 19 Sep 2019 20:44

Instrument :

MSVOA\_N

ClientSampleId :

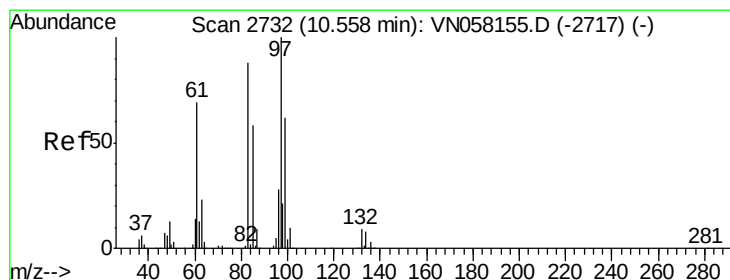
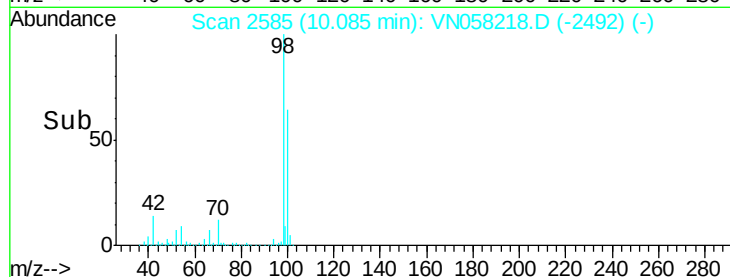
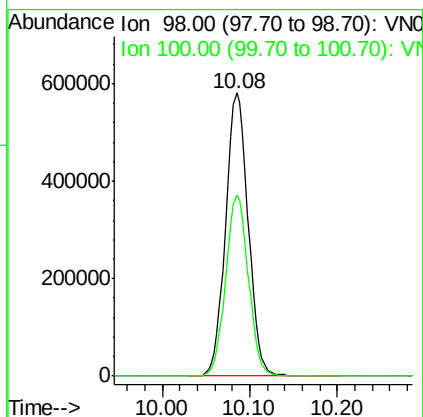
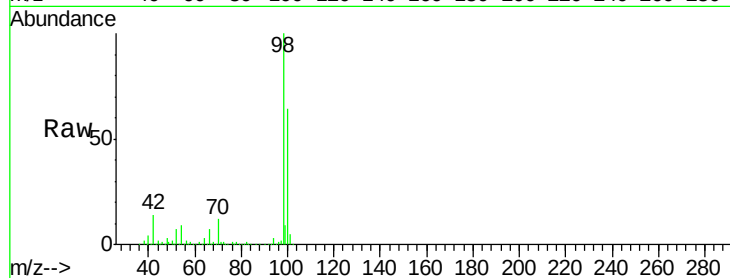
MW201D-20190912

Tot Ion: 98 Resp: 1042580

Ion Ratio Lower Upper

98 100

100 64.0 51.1 76.7



#55

1,1,2-Trichloroethane

Concen: 0.387 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VN058218.D

Acq: 19 Sep 2019 20:44

Tgt Ion: 97 Resp: 1960

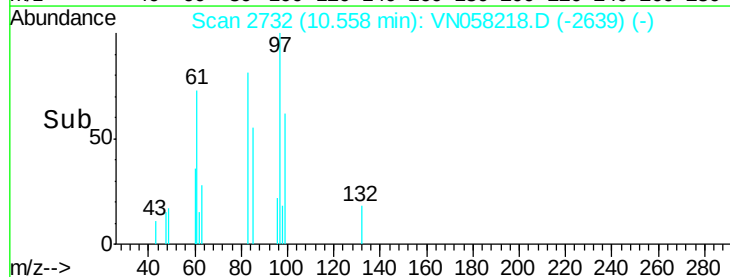
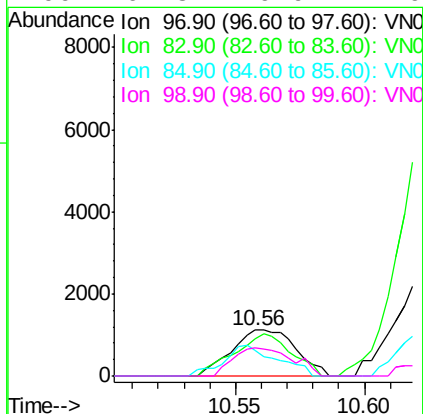
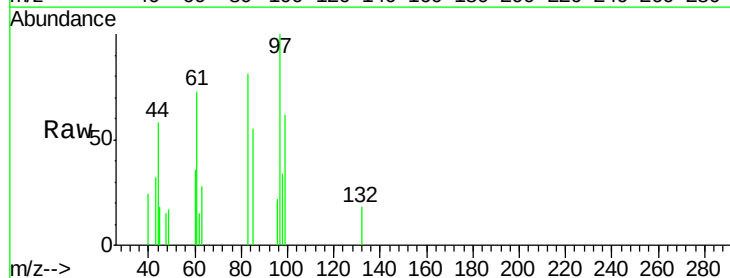
Ion Ratio Lower Upper

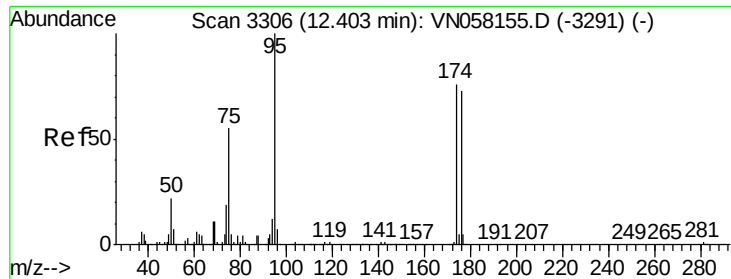
97 100

83 81.4 70.4 105.6

85 55.5 46.8 70.2

99 61.8 49.9 74.9





#62

4-Bromofluorobenzene

Concen: 44.976 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058218.D

Acq: 19 Sep 2019 20:44

Instrument :

MSVOA\_N

ClientSampleId :

MW201D-20190912

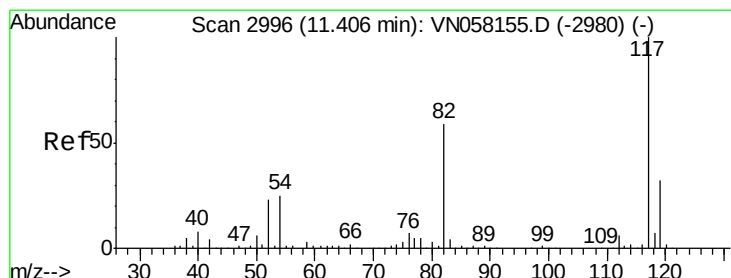
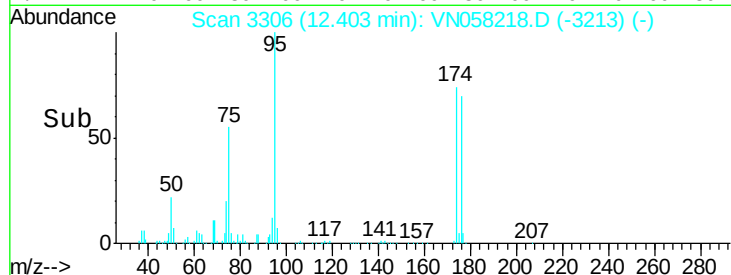
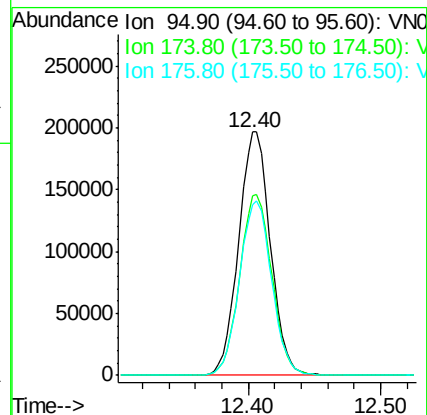
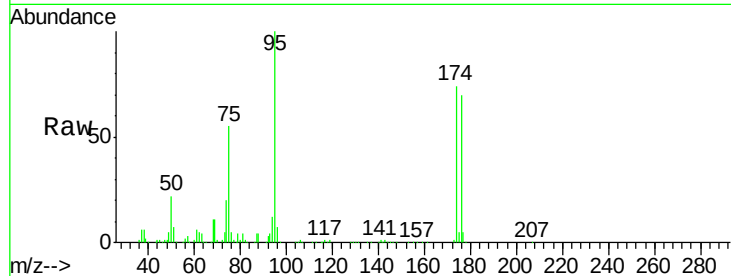
Tot Ion: 95 Resp: 327282

Ion Ratio Lower Upper

95 100

174 75.3 0.0 152.2

176 72.6 0.0 148.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058218.D

Acq: 19 Sep 2019 20:44

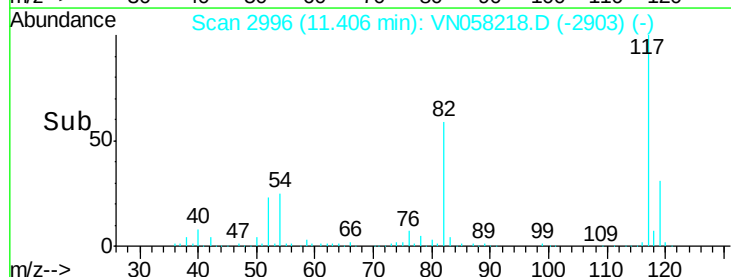
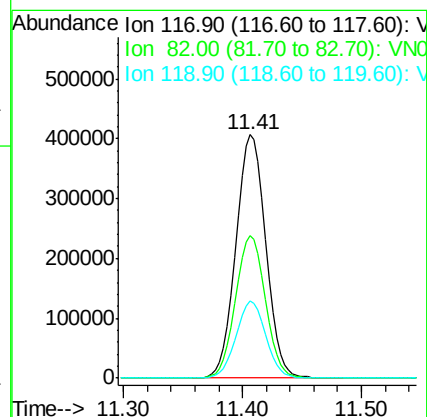
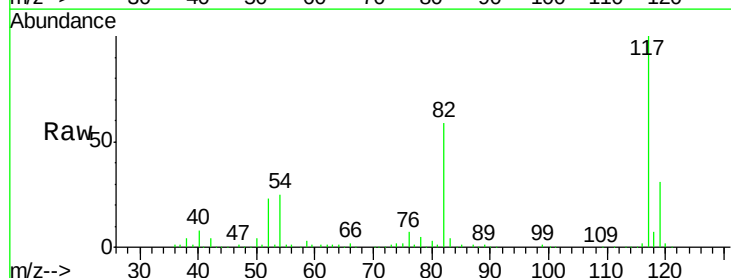
Tgt Ion: 117 Resp: 708209

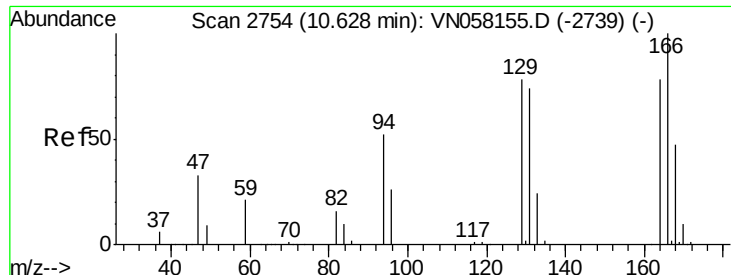
Ion Ratio Lower Upper

117 100

82 58.6 46.9 70.3

119 31.5 25.3 37.9





#64

Tetrachloroethene

Concen: 145.795 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN058218.D

Acq: 19 Sep 2019 20:44

Instrument :

MSVOA\_N

ClientSampleId :

MW201D-20190912

Tot Ion:164 Resp: 503333

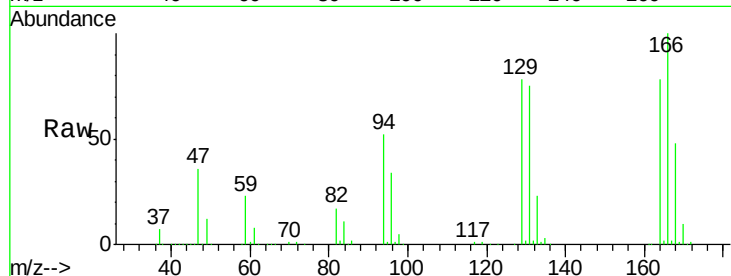
Ion Ratio Lower Upper

164 100

166 127.9 102.2 153.4

129 99.2 79.6 119.4

131 96.4 76.0 114.0

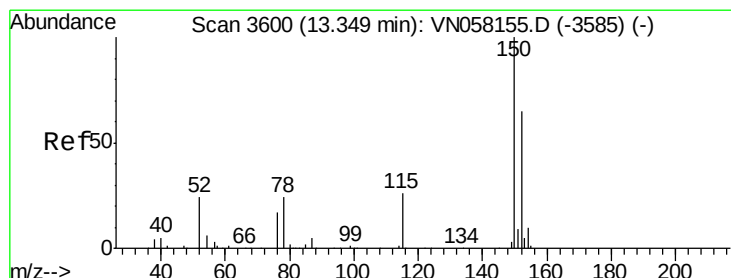
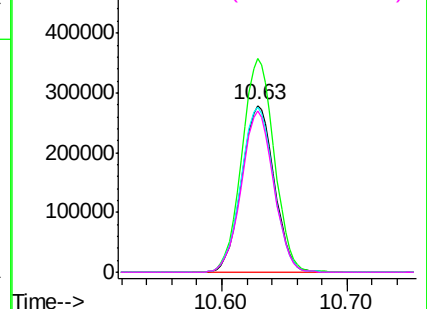
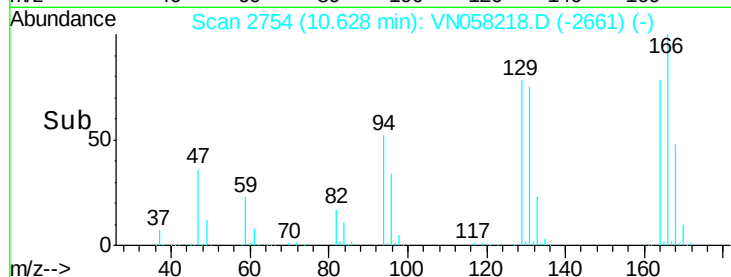


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058218.D

Acq: 19 Sep 2019 20:44

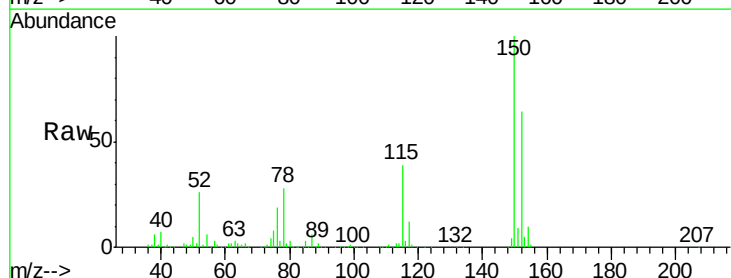
Tgt Ion:152 Resp: 276459

Ion Ratio Lower Upper

152 100

115 60.2 30.1 90.3

150 154.2 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

