

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032520\  
 Data File : VN060694.D  
 Acq On : 25 Mar 2020 14:05  
 Operator : JC/MD  
 Sample : L1997-11  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB-20200315

Quant Time: Mar 26 04:55:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N031820W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 18 08:49:09 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 7.64  | 168  | 193796   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.57  | 114  | 321706   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.40 | 117  | 301030   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.34 | 152  | 132891   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 126558   | 47.57 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.14%  |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 95706    | 49.20 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.40%  |          |
| 50) Toluene-d8              | 10.08 | 98   | 398467   | 50.15 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.30% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 145103   | 49.83 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 99.66%  |          |

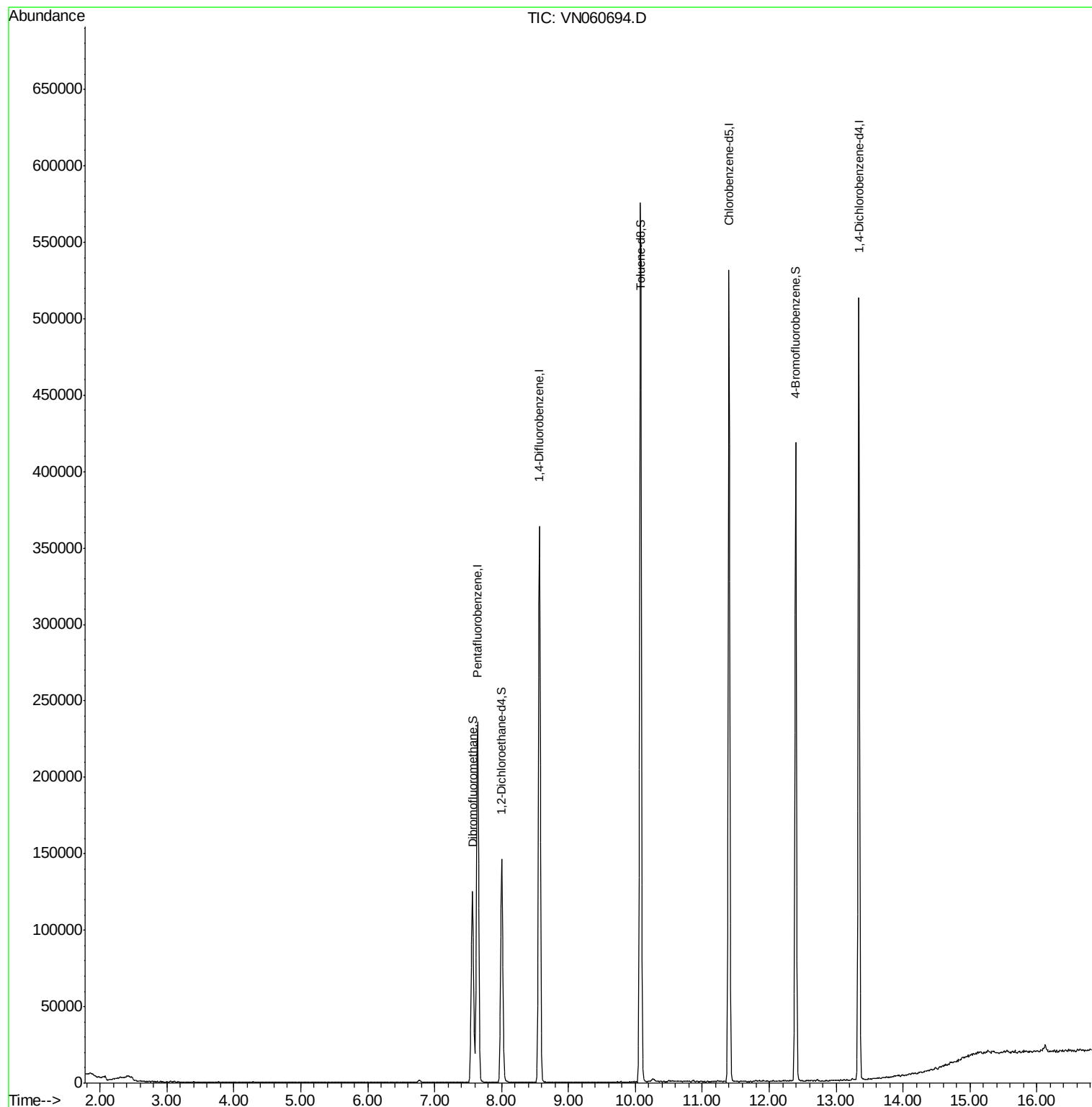
Target Compounds Qvalue

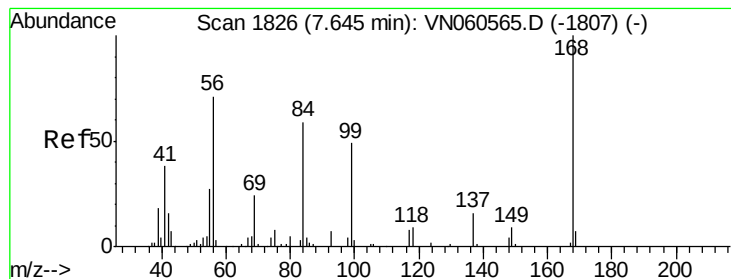
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Mar 18 08:49:09 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060694.D

Acq: 25 Mar 2020 14:05

Instrument :

MSVOA\_N

ClientSampleId :

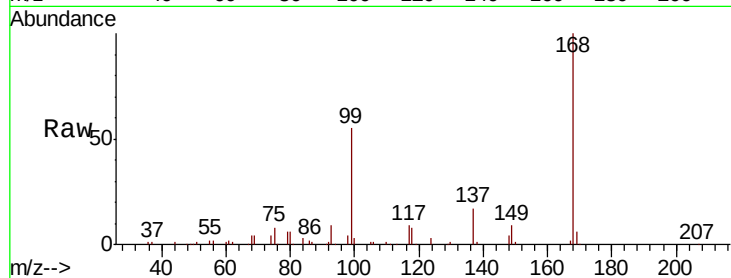
TB-20200315

Tot Ion:168 Resp: 193796

Ion Ratio Lower Upper

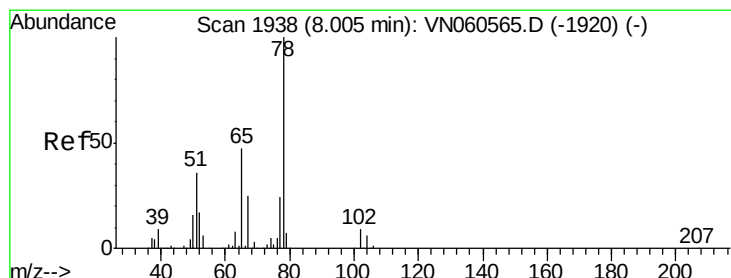
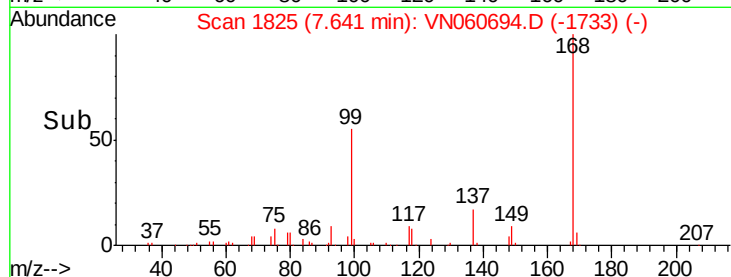
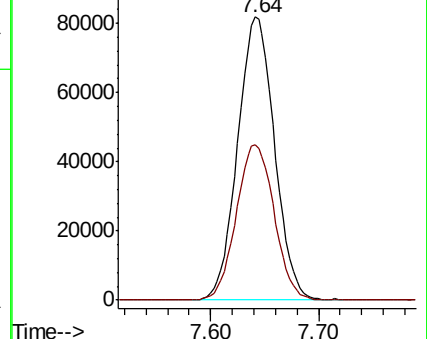
168 100

99 54.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060565.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN060565.D (-1807) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.571 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060694.D

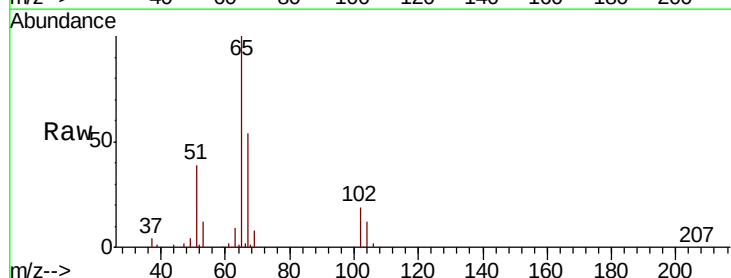
Acq: 25 Mar 2020 14:05

Tgt Ion: 65 Resp: 126558

Ion Ratio Lower Upper

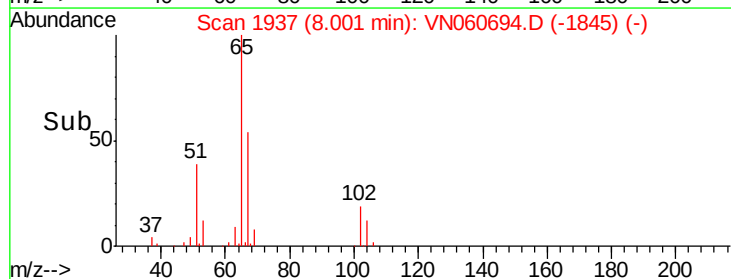
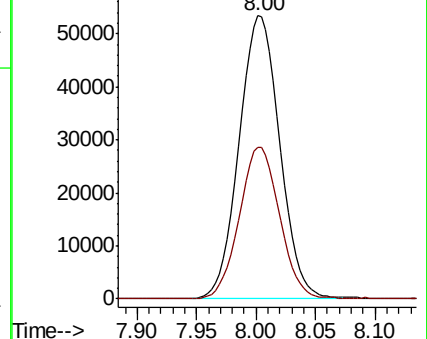
65 100

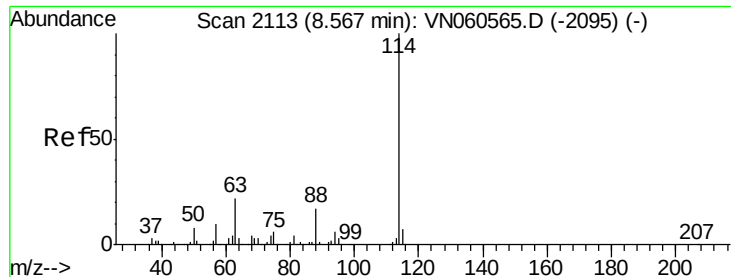
67 53.0 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060565.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060565.D (-1920) (-)

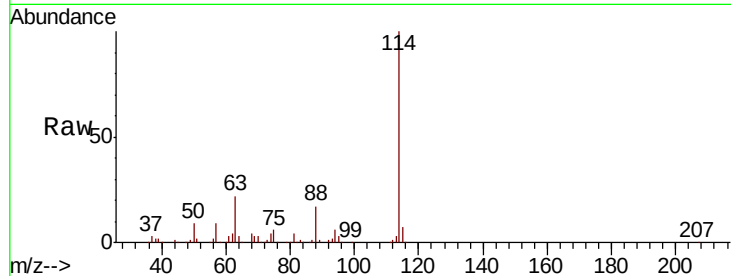




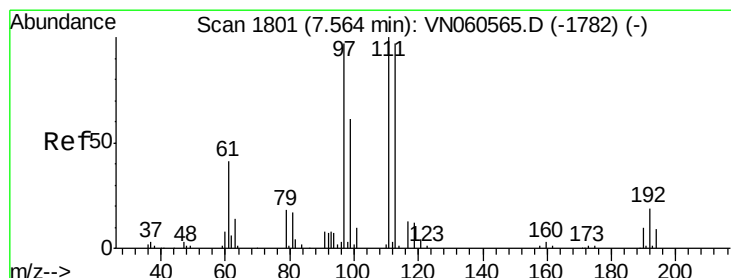
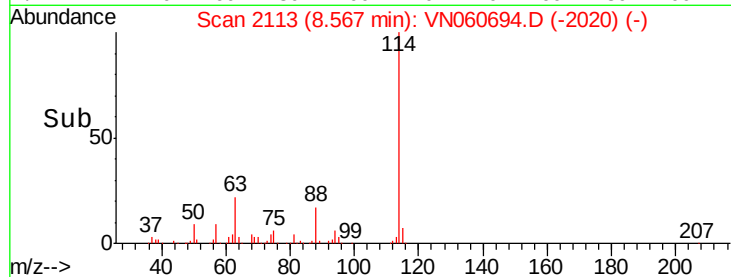
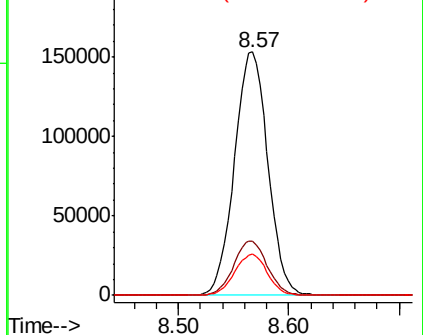
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. -0.00 min  
 Lab File: VN060694.D  
 Acq: 25 Mar 2020 14:05

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 TB-20200315

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.1  | 0.0   | 43.8  |
| 88      | 16.7  | 0.0   | 33.0  |

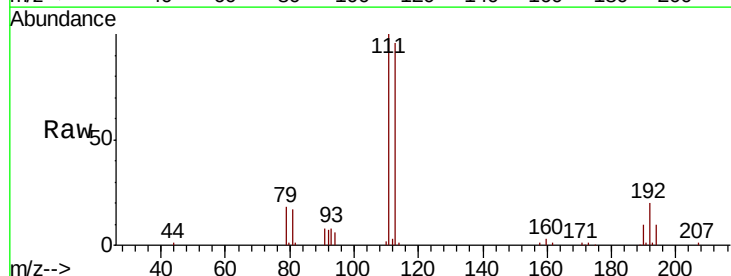


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

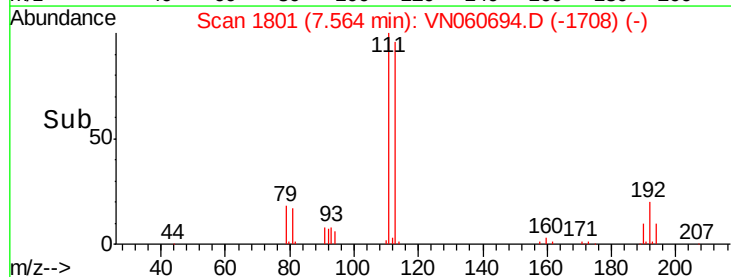
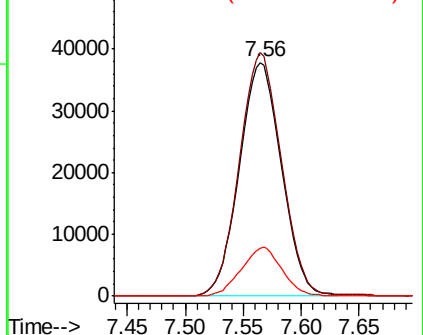


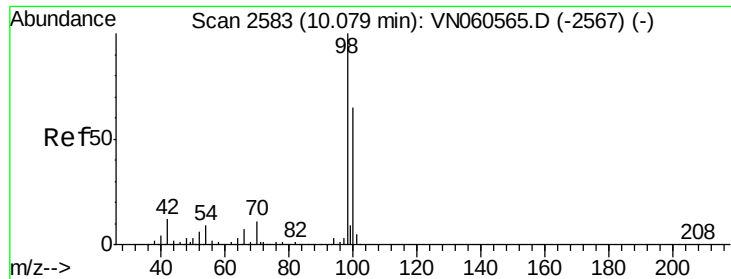
#35  
 Dibromofluoromethane  
 Concen: 49.200 ug/l  
 RT: 7.56 min Scan# 1801  
 Delta R.T. -0.00 min  
 Lab File: VN060694.D  
 Acq: 25 Mar 2020 14:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.7 | 82.9  | 124.3 |
| 192     | 20.1  | 15.8  | 23.8  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 50.149 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060694.D

Acq: 25 Mar 2020 14:05

Instrument :

MSVOA\_N

ClientSampleId :

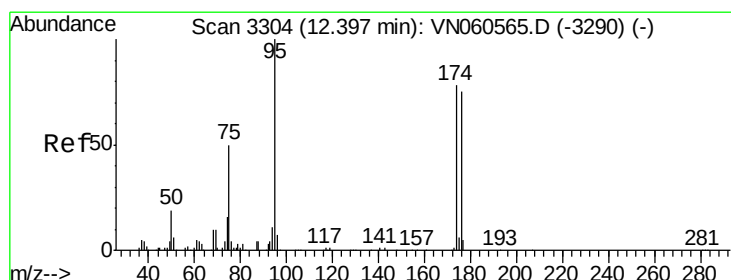
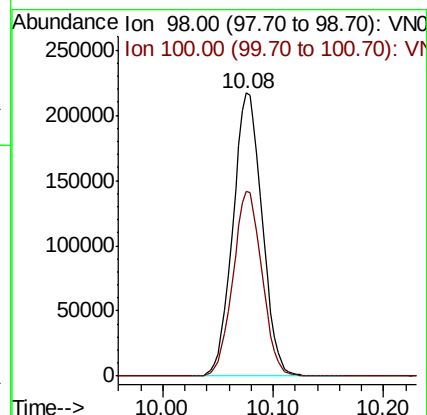
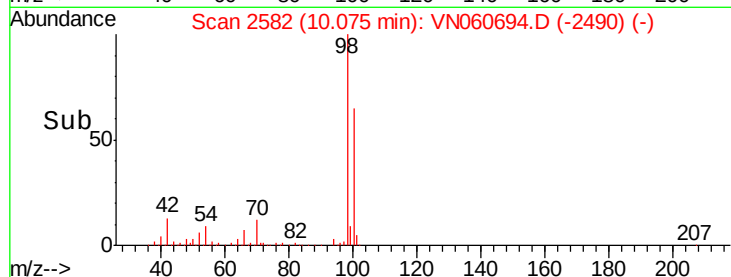
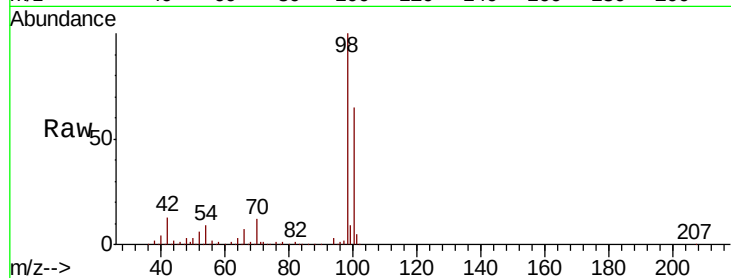
TB-20200315

Tot Ion: 98 Resp: 398467

Ion Ratio Lower Upper

98 100

100 65.0 51.8 77.8



#62

4-Bromofluorobenzene

Concen: 49.830 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060694.D

Acq: 25 Mar 2020 14:05

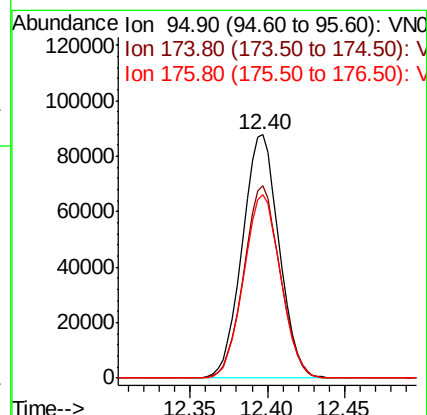
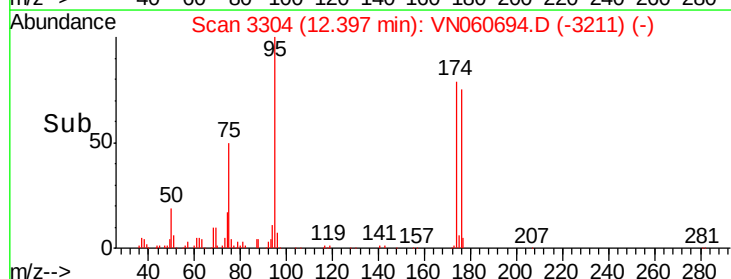
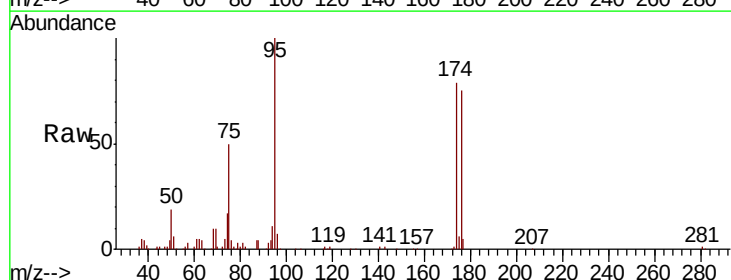
Tgt Ion: 95 Resp: 145103

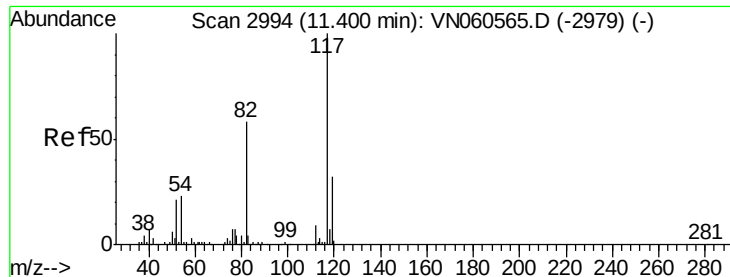
Ion Ratio Lower Upper

95 100

174 78.3 0.0 157.6

176 75.8 0.0 150.6

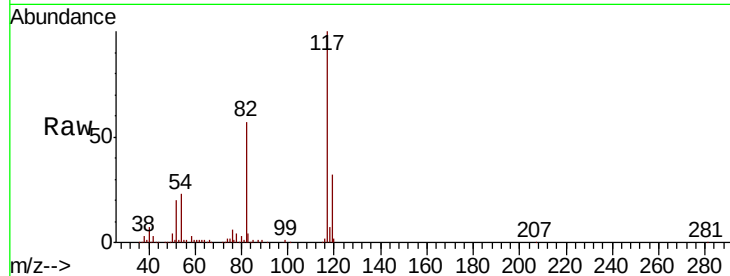




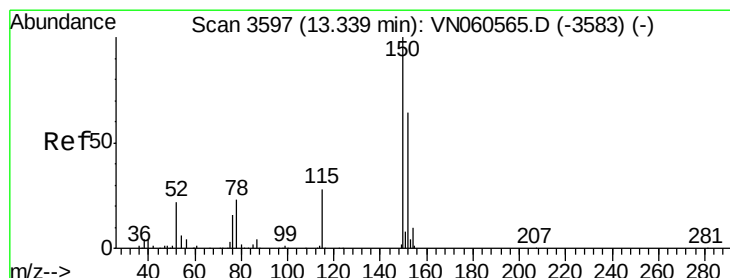
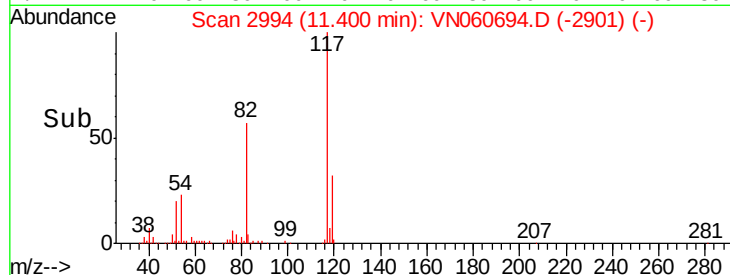
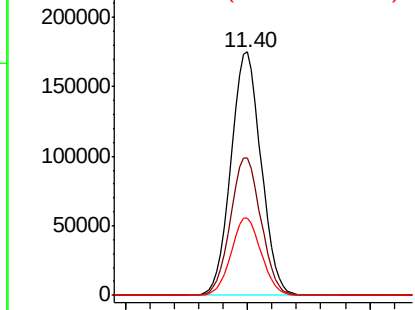
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.40 min Scan# 2994  
Delta R.T. -0.00 min  
Lab File: VN060694.D  
Acq: 25 Mar 2020 14:05

Instrument :  
MSVOA\_N  
ClientSampleId :  
TB-20200315

Tot Ion:117 Resp: 301030  
Ion Ratio Lower Upper  
117 100  
82 56.5 46.7 70.1  
119 31.9 25.5 38.3

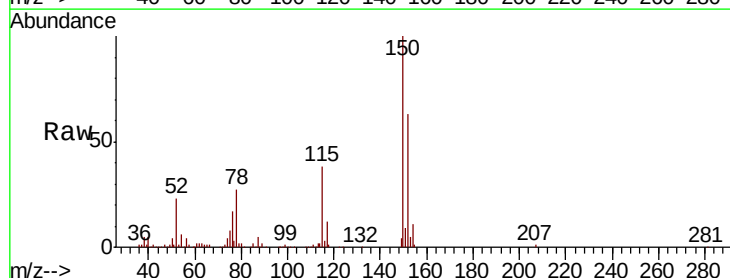


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3597  
Delta R.T. -0.00 min  
Lab File: VN060694.D  
Acq: 25 Mar 2020 14:05

Tgt Ion:152 Resp: 132891  
Ion Ratio Lower Upper  
152 100  
115 60.6 30.2 90.6  
150 158.0 0.0 350.2



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

