

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041720\  
 Data File : VN061059.D  
 Acq On : 17 Apr 2020 18:25  
 Operator : JC/MD  
 Sample : L2337-11  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB180-GW-483-485

Quant Time: Apr 20 01:33:42 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N041620W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 17 03:49:39 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 138584   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.56  | 114  | 235183   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 222559   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 96846    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 95087    | 53.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.26% |          |
| 35) Dibromofluoromethane    | 7.56  | 113  | 71593    | 52.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.26% |          |
| 50) Toluene-d8              | 10.08 | 98   | 294543   | 56.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.50% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 107298   | 52.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.50% |          |

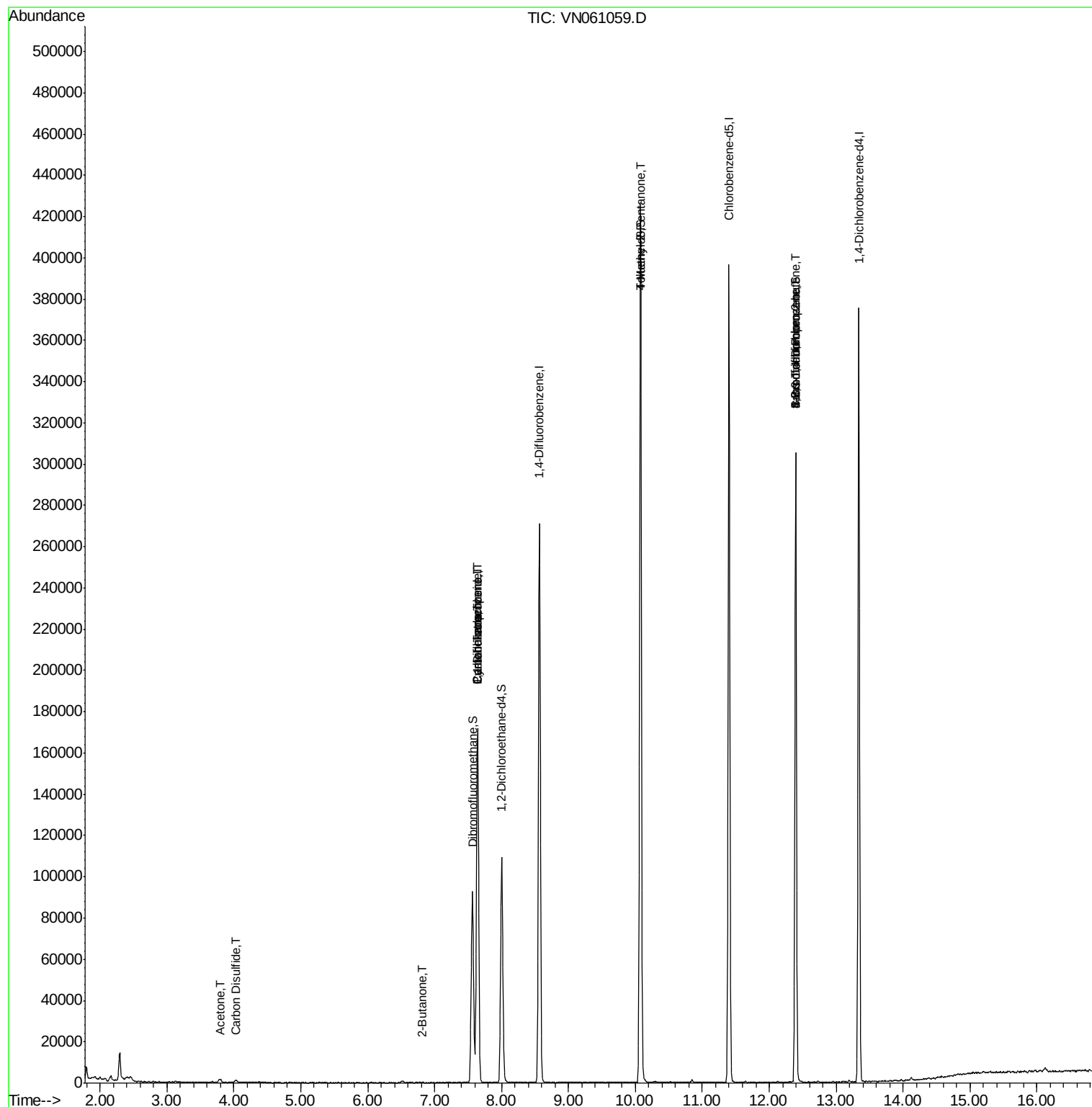
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.79  | 43   | 3420     | 4.382  | ug/l   | 89     |
| 17) Carbon Disulfide           | 4.03  | 76   | 1845     | 0.389  | ug/l # | 74     |
| 25) 2-Butanone                 | 6.81  | 43   | 373      | 0.312  | ug/l # | 51     |
| 31) Cyclohexane                | 7.64  | 56   | 3331     | 1.009  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.64  | 75   | 11421    | 4.706  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.64  | 117  | 13167    | 6.518  | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 1429     | 0.578  | ug/l # | 1      |
| 71) Bromoform                  | 12.39 | 173  | 290      | 0.236  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.39 | 75   | 54854    | 25.750 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.39 | 75   | 54854    | 63.516 | ug/l # | 12     |

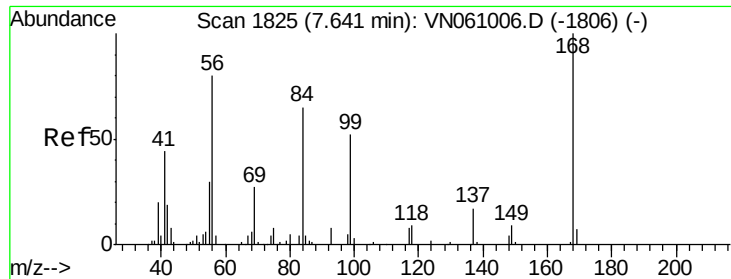
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN041720\  
Data File : VN061059.D  
Acq On : 17 Apr 2020 18:25  
Operator : JC/MD  
Sample : L2337-11  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB180-GW-483-485

Quant Time: Apr 20 01:33:42 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N041620W.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 17 03:49:39 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: VN061059.D

Acq: 17 Apr 2020 18:25

Instrument :

MSVOA\_N

ClientSampleId :

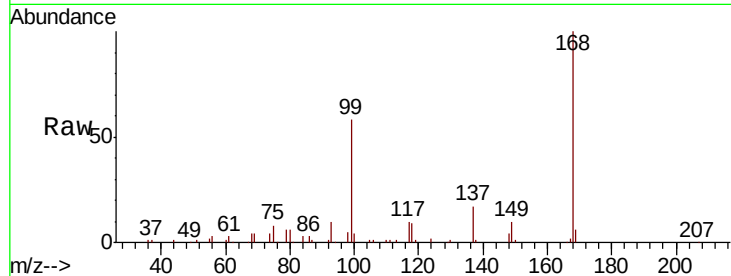
BP-VPB180-GW-483-485

Tot Ion:168 Resp: 138584

Ion Ratio Lower Upper

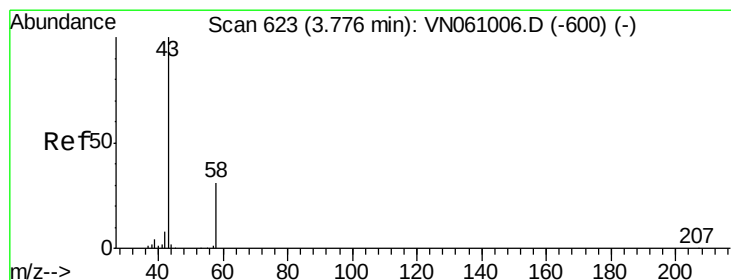
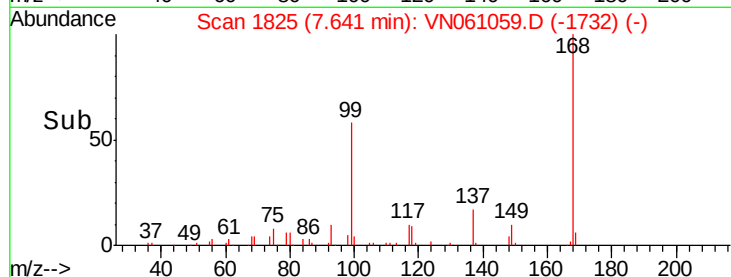
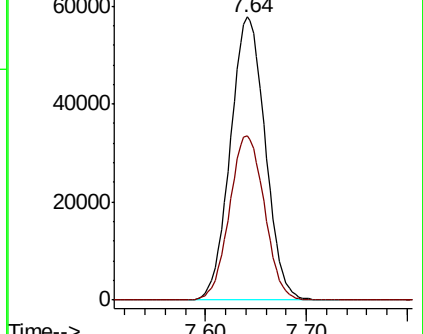
168 100

99 58.2 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 4.382 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN061059.D

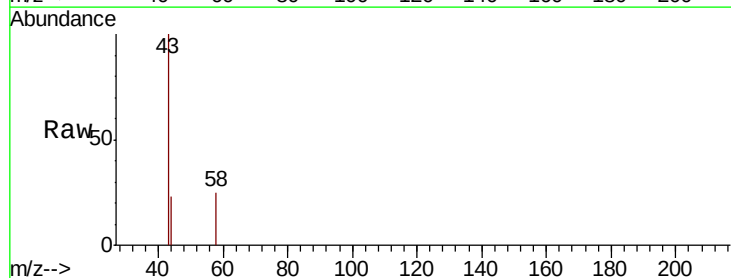
Acq: 17 Apr 2020 18:25

Tgt Ion: 43 Resp: 3420

Ion Ratio Lower Upper

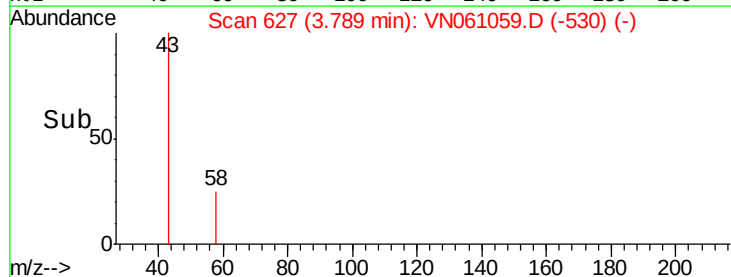
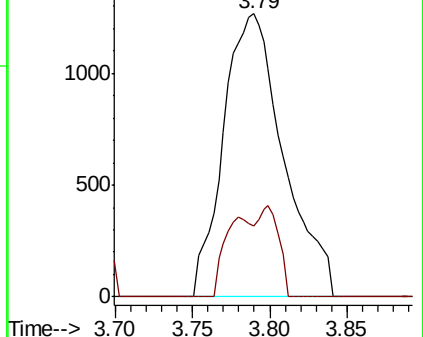
43 100

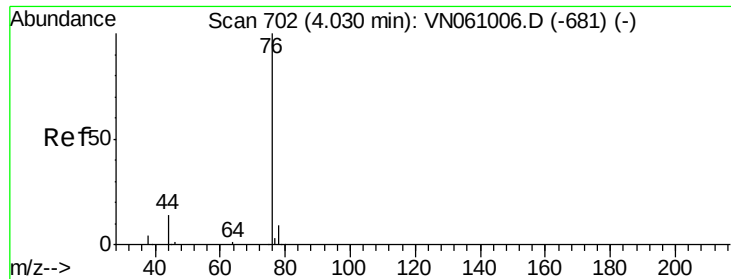
58 24.9 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#17

Carbon Disulfide

Concen: 0.389 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN061059.D

Acq: 17 Apr 2020 18:25

Instrument :

MSVOA\_N

ClientSampleId :

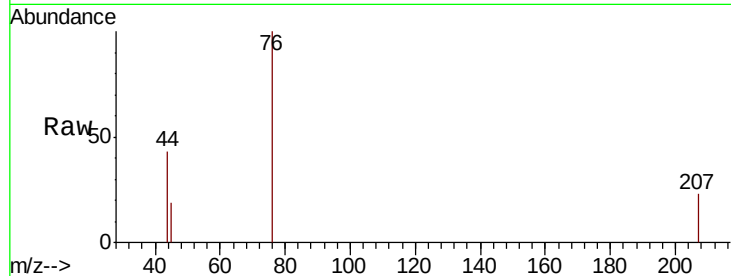
BP-VPB180-GW-483-485

Tot Ion: 76 Resp: 1845

Ion Ratio Lower Upper

76 100

78 0.0 7.6 11.4#



Abundance Ion 75.90 (75.60 to 76.60): VN061006.D (-681) (-)

Ion 77.90 (77.60 to 78.60): VN061006.D (-681) (-)

4.03

800

600

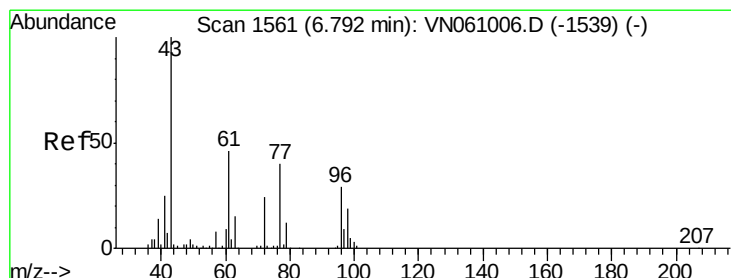
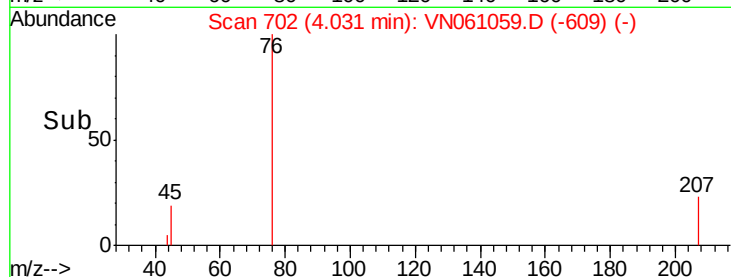
400

200

0

4.00 4.05

Time-->



#25

2-Butanone

Concen: 0.312 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.02 min

Lab File: VN061059.D

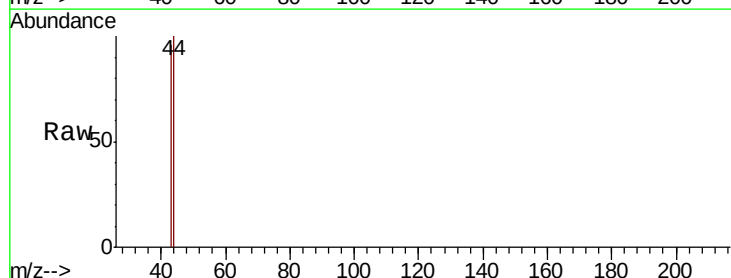
Acq: 17 Apr 2020 18:25

Tgt Ion: 43 Resp: 373

Ion Ratio Lower Upper

43 100

72 0.0 19.6 29.4#



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-1539) (-)

Ion 72.00 (71.70 to 72.70): VN061006.D (-1539) (-)

6.81

250

200

150

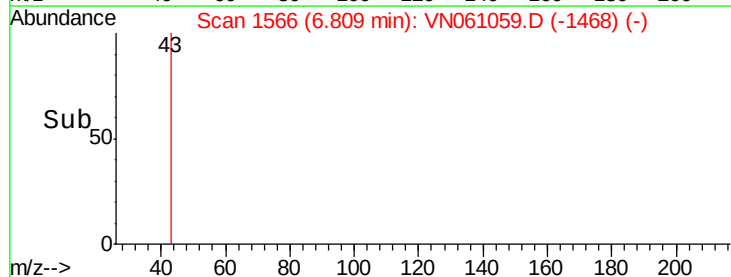
100

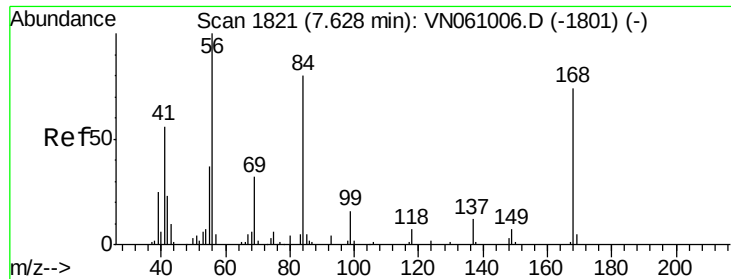
50

0

6.78 6.80 6.82 6.84

Time-->

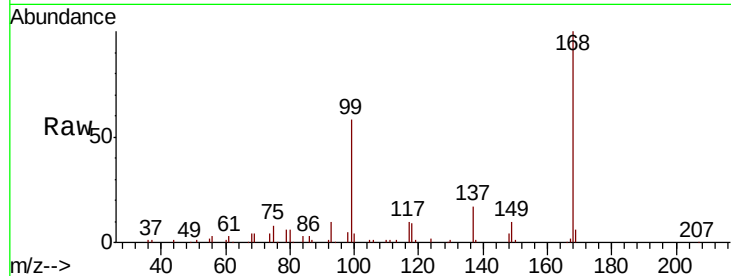




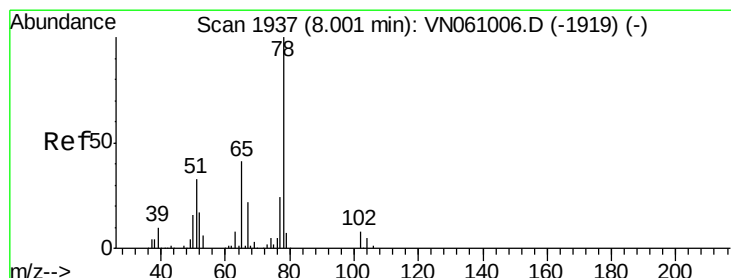
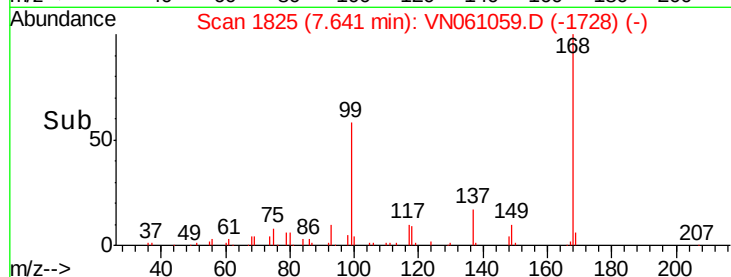
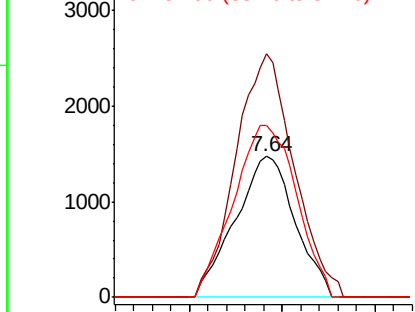
#31  
Cyclohexane  
Concen: 1.009 ug/l  
RT: 7.64 min Scan# 1825  
Delta R.T. 0.01 min  
Lab File: VN061059.D  
Acq: 17 Apr 2020 18:25

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB180-GW-483-485

Tot Ion: 56 Resp: 3331  
Ion Ratio Lower Upper  
56 100  
69 172.7 25.6 38.4#  
84 122.3 63.4 95.2#

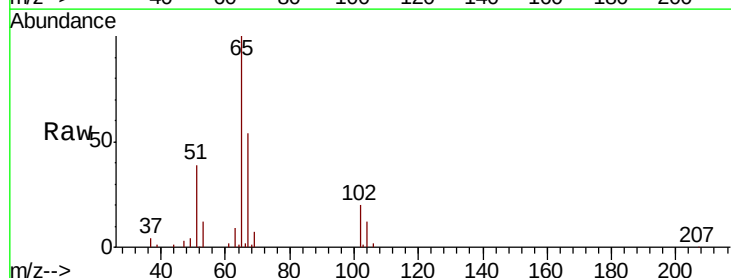


Abundance Ion 56.00 (55.70 to 56.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 84.00 (83.70 to 84.70): VN0

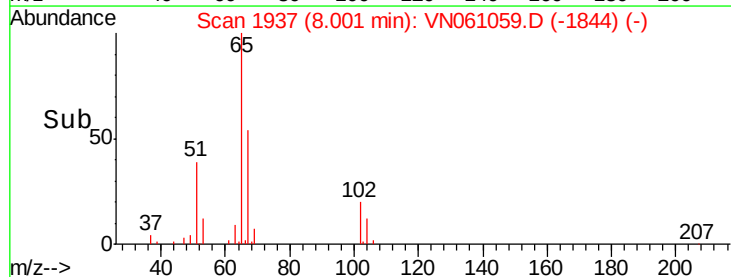
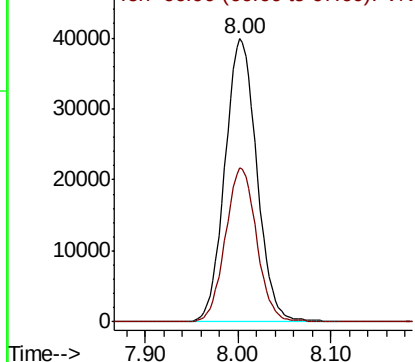


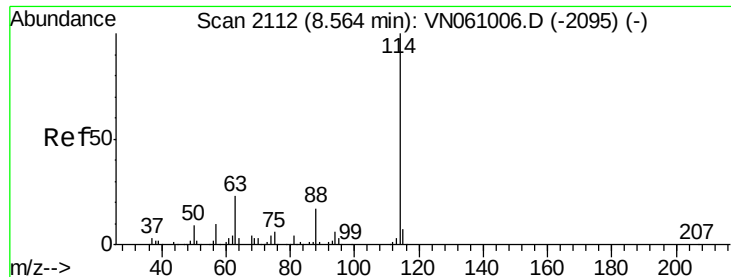
#33  
1,2-Dichloroethane-d4  
Concen: 53.628 ug/l  
RT: 8.00 min Scan# 1937  
Delta R.T. 0.00 min  
Lab File: VN061059.D  
Acq: 17 Apr 2020 18:25

Tgt Ion: 65 Resp: 95087  
Ion Ratio Lower Upper  
65 100  
67 53.2 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VN0  
Ion 66.90 (66.60 to 67.60): VN0

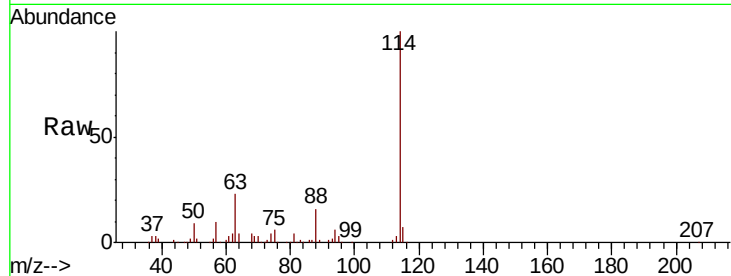




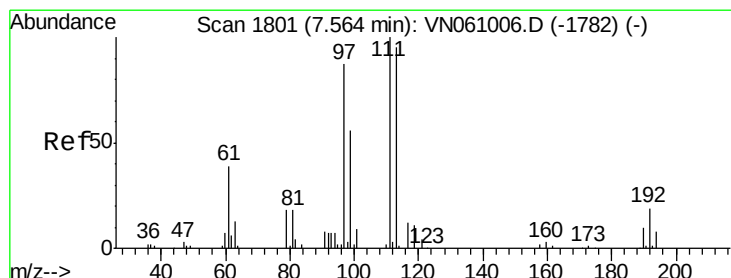
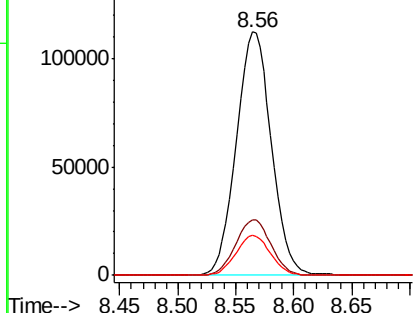
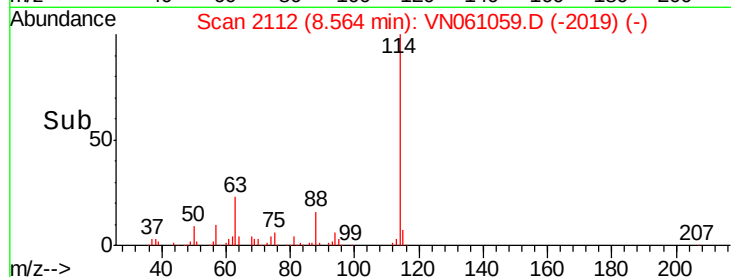
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.56 min Scan# 2112  
 Delta R.T. 0.00 min  
 Lab File: VN061059.D  
 Acq: 17 Apr 2020 18:25

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB180-GW-483-485

|             |       |        |
|-------------|-------|--------|
| Tot Ion:114 | Resp: | 235183 |
| Ion Ratio   | Lower | Upper  |
| 114 100     |       |        |
| 63 22.8     | 0.0   | 46.2   |
| 88 16.4     | 0.0   | 33.4   |

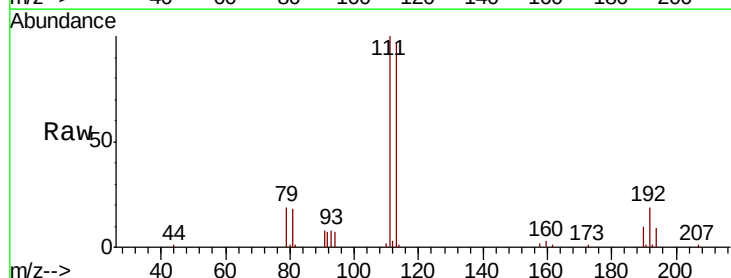


Abundance Ion 113.90 (113.60 to 114.60): V  
 150000 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

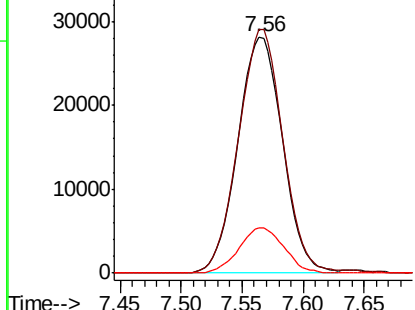
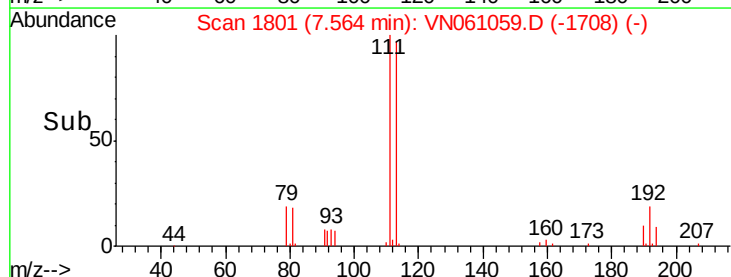


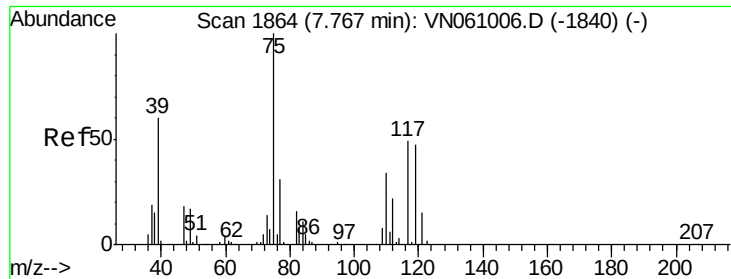
#35  
 Dibromofluoromethane  
 Concen: 52.127 ug/l  
 RT: 7.56 min Scan# 1801  
 Delta R.T. 0.00 min  
 Lab File: VN061059.D  
 Acq: 17 Apr 2020 18:25

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:113 | Resp: | 71593 |
| Ion Ratio   | Lower | Upper |
| 113 100     |       |       |
| 111 102.2   | 83.4  | 125.2 |
| 192 19.2    | 15.5  | 23.3  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 40000 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

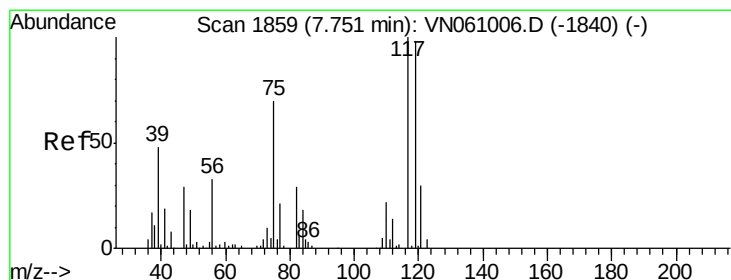
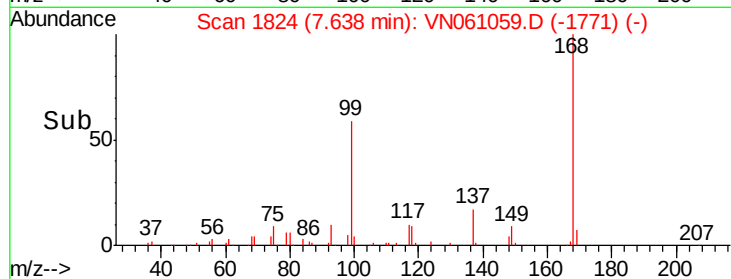
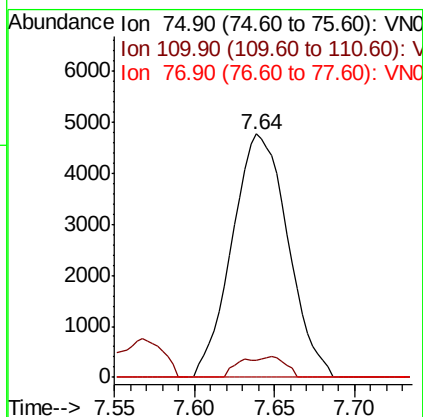
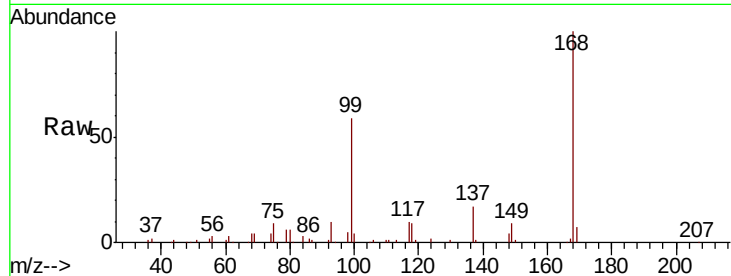




#36  
 1,1-Dichloropropene  
 Concen: 4.706 ug/l  
 RT: 7.64 min Scan# 1824  
 Delta R.T. -0.13 min  
 Lab File: VN061059.D  
 Acq: 17 Apr 2020 18:25

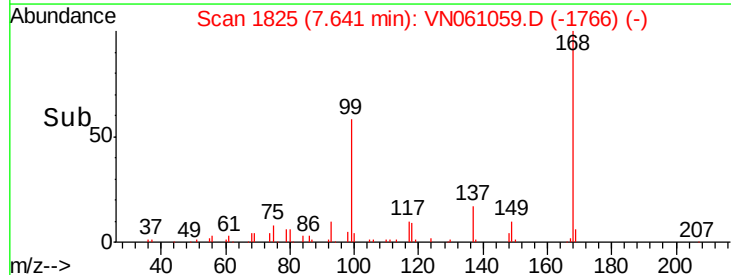
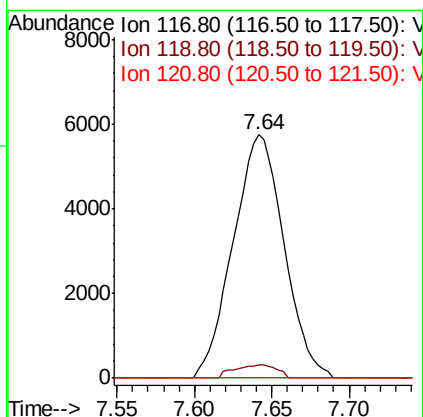
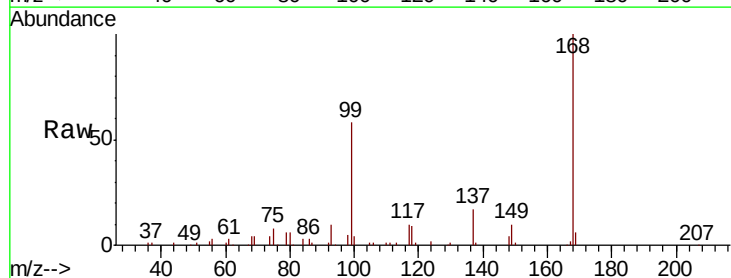
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB180-GW-483-485

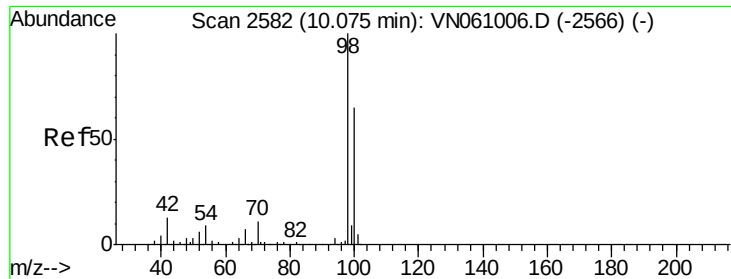
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 6.7   | 16.8  | 50.3# |
| 77      | 0.0   | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 6.518 ug/l  
 RT: 7.64 min Scan# 1825  
 Delta R.T. -0.11 min  
 Lab File: VN061059.D  
 Acq: 17 Apr 2020 18:25

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.2   | 78.1  | 117.1# |
| 121     | 0.0   | 24.0  | 36.0#  |

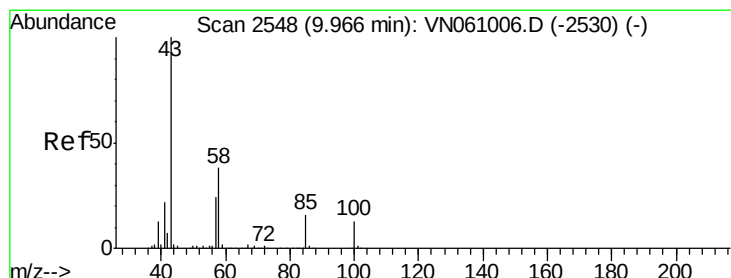
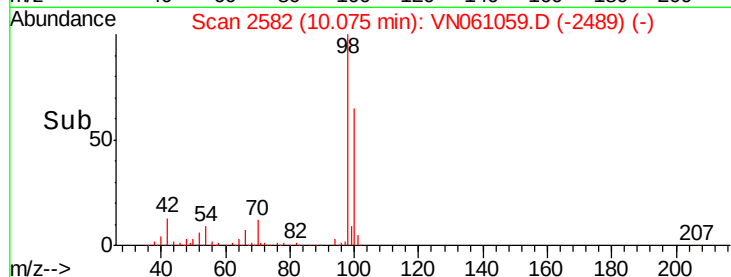
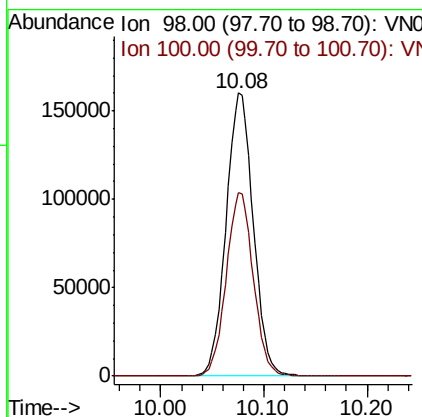
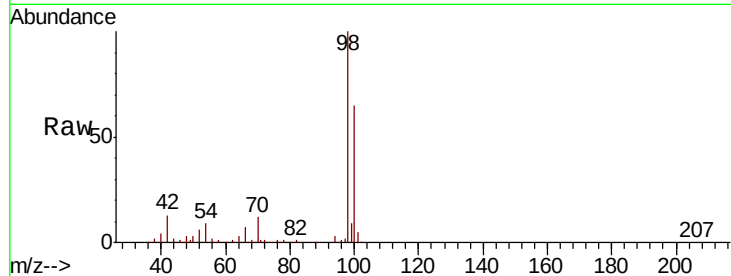




#50  
Toluene-d8  
Concen: 56.753 ug/l  
RT: 10.08 min Scan# 2582  
Delta R.T. 0.00 min  
Lab File: VN061059.D  
Acq: 17 Apr 2020 18:25

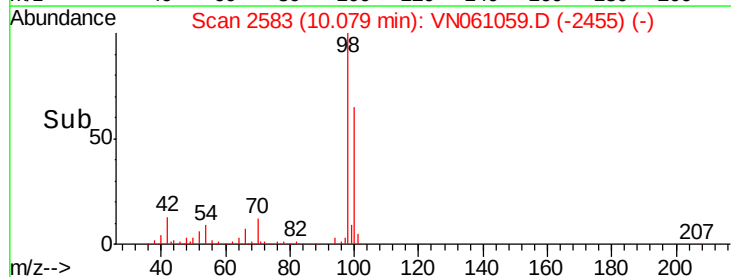
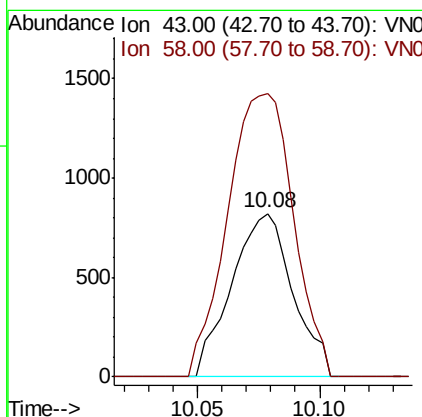
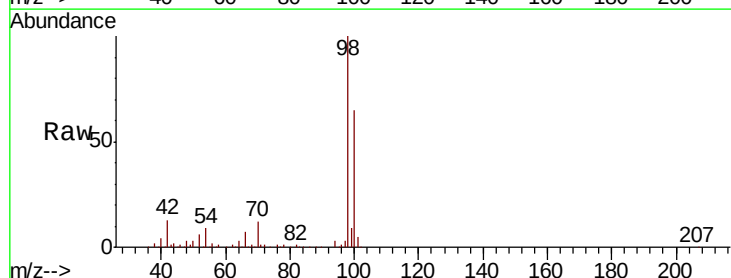
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-VPB180-GW-483-485

Tot Ion: 98 Resp: 294543  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.9 77.9

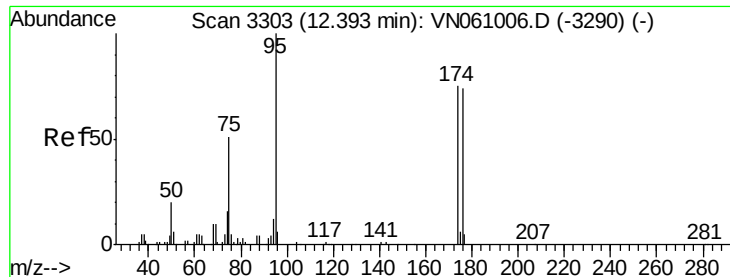


#51  
4-Methyl-2-Pentanone  
Concen: 0.578 ug/l  
RT: 10.08 min Scan# 2583  
Delta R.T. 0.11 min  
Lab File: VN061059.D  
Acq: 17 Apr 2020 18:25

Tgt Ion: 43 Resp: 1429  
Ion Ratio Lower Upper  
43 100  
58 186.8 30.3 45.5#







#62

4-Bromofluorobenzene

Concen: 52.750 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN061059.D

Acq: 17 Apr 2020 18:25

Instrument :

MSVOA\_N

ClientSampleId :

BP-VPB180-GW-483-485

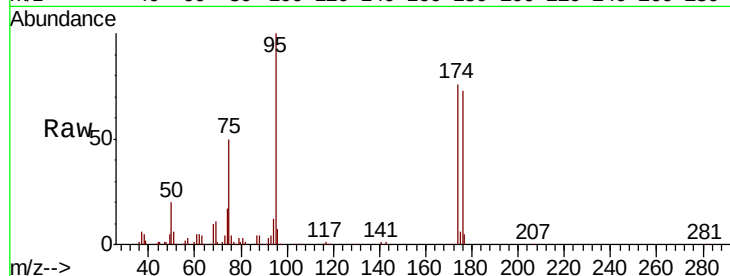
Tot Ion: 95 Resp: 107298

Ion Ratio Lower Upper

95 100

174 76.4 0.0 151.2

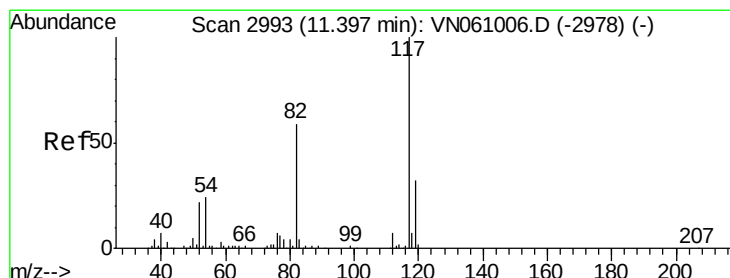
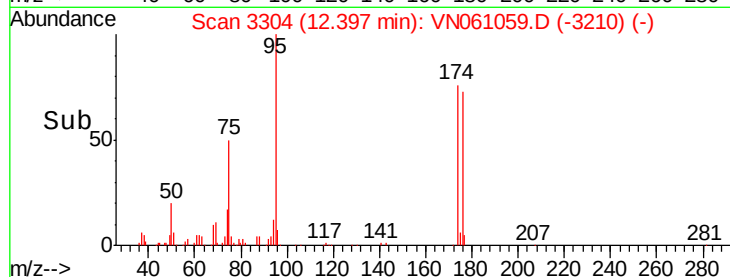
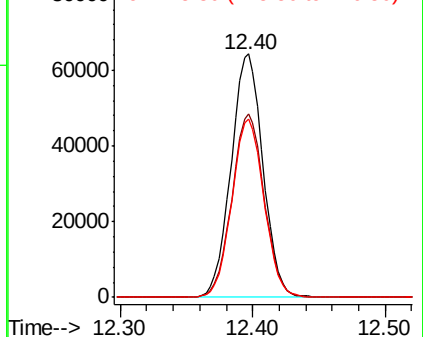
176 73.6 0.0 148.2



Abundance Ion 94.90 (94.60 to 95.60): VN061006.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN061006.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN061006.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2993

Delta R.T. 0.00 min

Lab File: VN061059.D

Acq: 17 Apr 2020 18:25

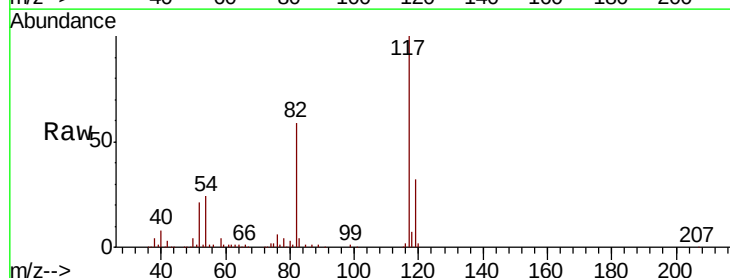
Tgt Ion: 117 Resp: 222559

Ion Ratio Lower Upper

117 100

82 58.7 47.1 70.7

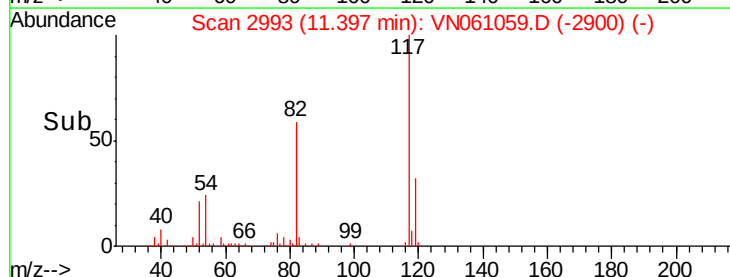
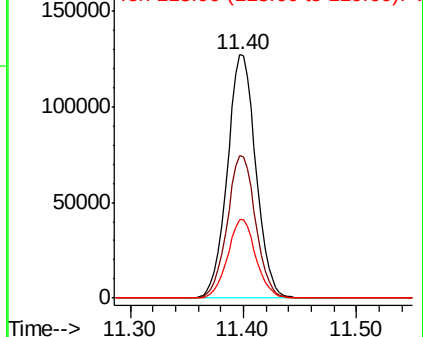
119 32.1 25.7 38.5

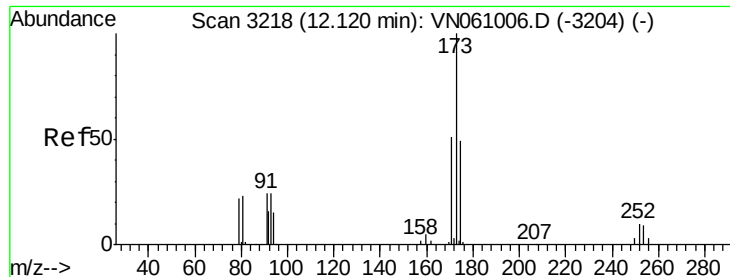


Abundance Ion 116.90 (116.60 to 117.60): VN061006.D (-2978) (-)

Ion 82.00 (81.70 to 82.70): VN061006.D (-2978) (-)

Ion 118.90 (118.60 to 119.60): VN061006.D (-2978) (-)

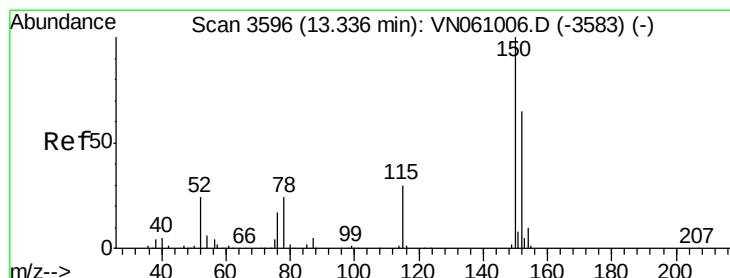
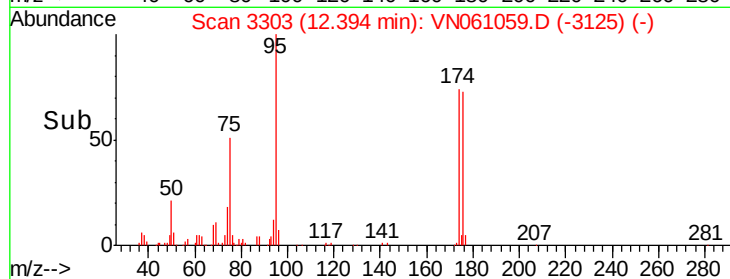
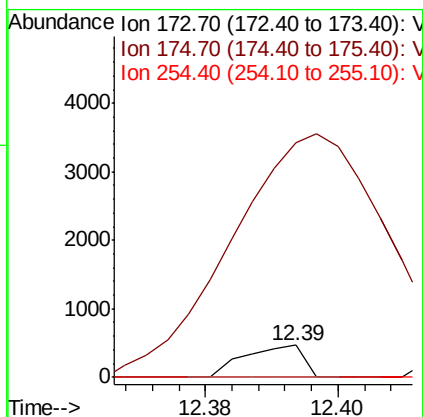
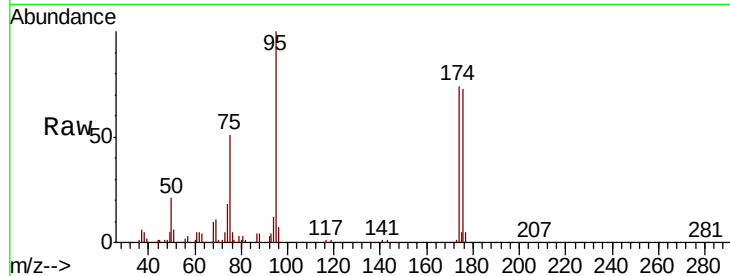




#71  
 Bromoform  
 Concen: 0.236 ug/l  
 RT: 12.39 min Scan# 3303  
 Delta R.T. 0.27 min  
 Lab File: VN061059.D  
 Acq: 17 Apr 2020 18:25

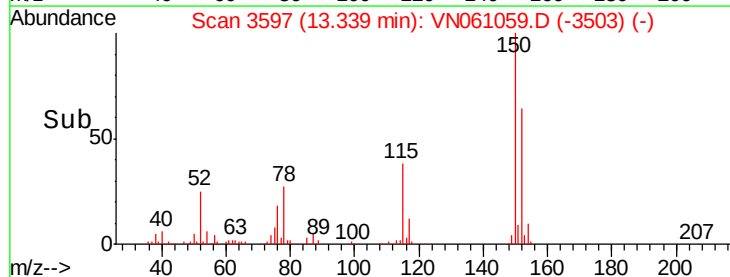
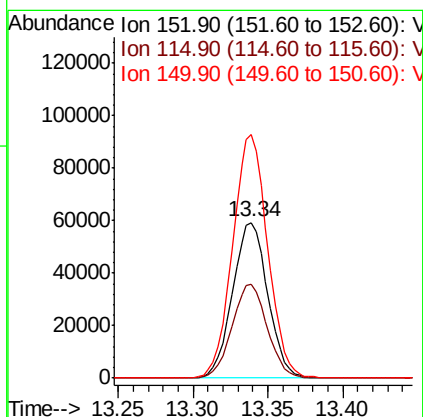
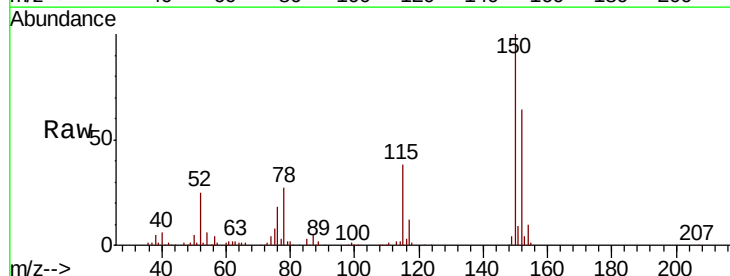
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-VPB180-GW-483-485

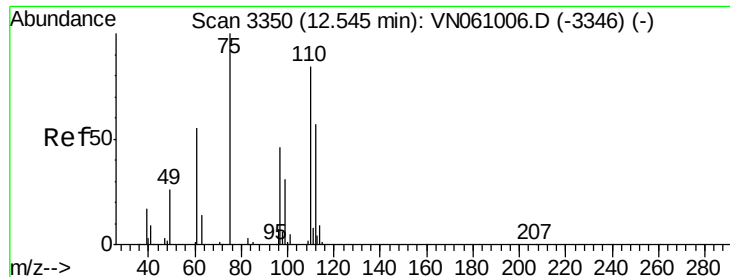
Tot Ion:173 Resp: 290  
 Ion Ratio Lower Upper  
 173 100  
 175 1766.9 24.5 73.5#  
 254 0.0 0.0 0.0



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.34 min Scan# 3597  
 Delta R.T. 0.00 min  
 Lab File: VN061059.D  
 Acq: 17 Apr 2020 18:25

Tgt Ion:152 Resp: 96846  
 Ion Ratio Lower Upper  
 152 100  
 115 60.1 30.8 92.4  
 150 155.9 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 25.750 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061059.D

Acq: 17 Apr 2020 18:25

Instrument :

MSVOA\_N

ClientSampleId :

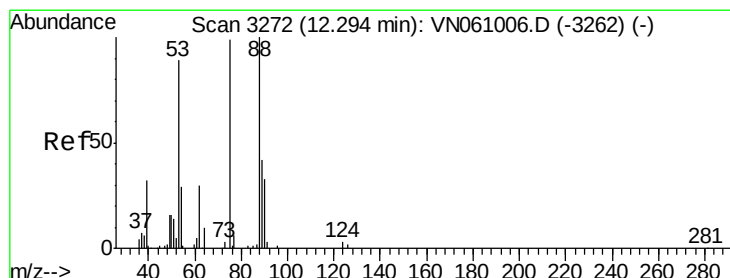
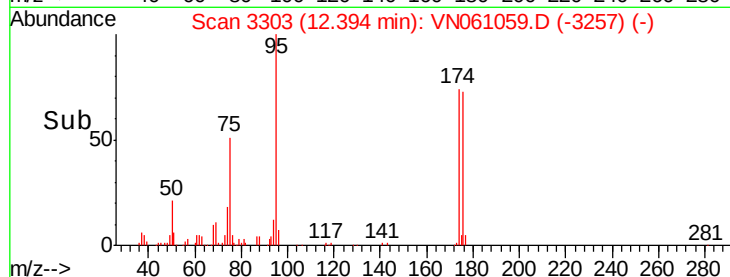
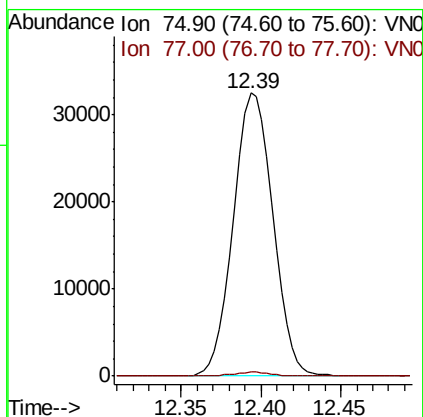
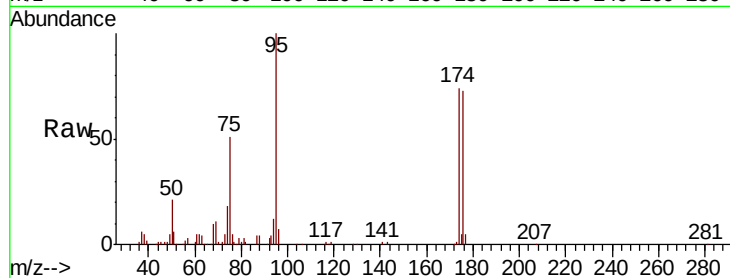
BP-VPB180-GW-483-485

Tot Ion: 75 Resp: 54854

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.516 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061059.D

Acq: 17 Apr 2020 18:25

Tgt Ion: 75 Resp: 54854

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 34.6 52.0#

