

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070120\  
 Data File : VN062300.D  
 Acq On : 1 Jul 2020 18:31  
 Operator : JC/MD  
 Sample : L3192-08  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-MW180-FB-20200630

Quant Time: Jul 02 06:56:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N062420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 24 15:33:00 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 183805   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 359275   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 341205   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 117733   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 147247   | 57.09 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 114.18% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 117159   | 50.83 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.66% |          |
| 50) Toluene-d8              | 10.06 | 98   | 461944   | 50.14 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 100.28% |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 143725   | 46.17 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 92.34%  |          |

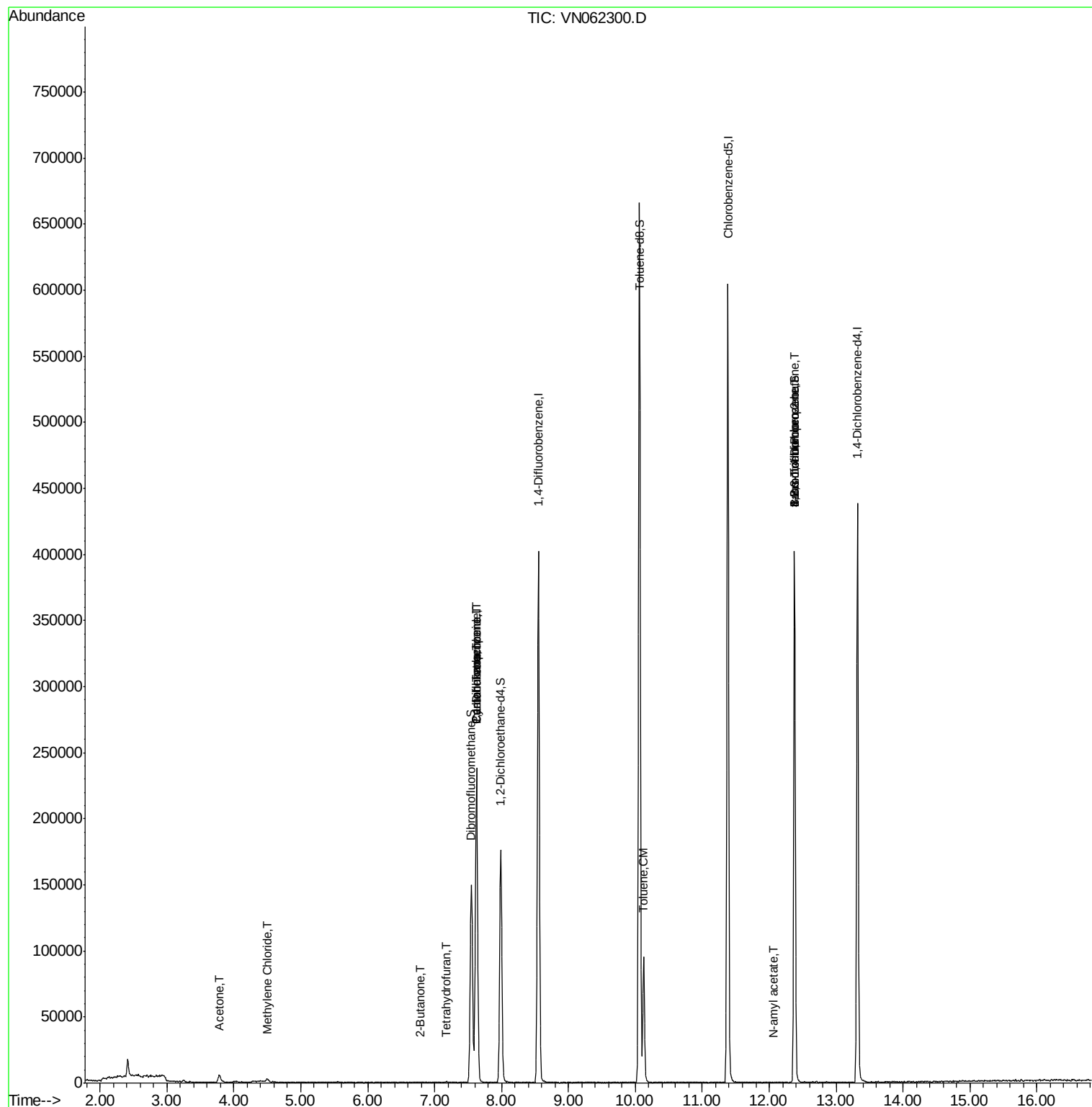
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.03  | 50   | 793      | Below Cal |        | 98     |
| 16) Acetone                    | 3.78  | 43   | 9640     | 7.985     | ug/l   | 99     |
| 20) Methylene Chloride         | 4.50  | 84   | 1153     | 0.271     | ug/l   | 89     |
| 25) 2-Butanone                 | 6.79  | 43   | 315      | 0.250     | ug/l # | 44     |
| 29) Tetrahydrofuran            | 7.17  | 42   | 182      | 0.220     | ug/l # | 58     |
| 31) Cyclohexane                | 7.62  | 56   | 4498     | 1.262     | ug/l # | 16     |
| 36) 1,1-Dichloropropene        | 7.63  | 75   | 16398    | 4.541     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 7.63  | 117  | 18301    | 5.375     | ug/l # | 16     |
| 52) Toluene                    | 10.12 | 92   | 40289    | 5.999     | ug/l   | 95     |
| 71) Bromoform                  | 12.38 | 173  | 1244     | 0.675     | ug/l # | 1      |
| 74) N-amyl acetate             | 12.07 | 43   | 33       | 3.352     | ug/l # | 38     |
| 76) 1,2,3-Trichloropropane     | 12.38 | 75   | 75028    | 27.071    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.38 | 75   | 75028    | 79.057    | ug/l # | 13     |

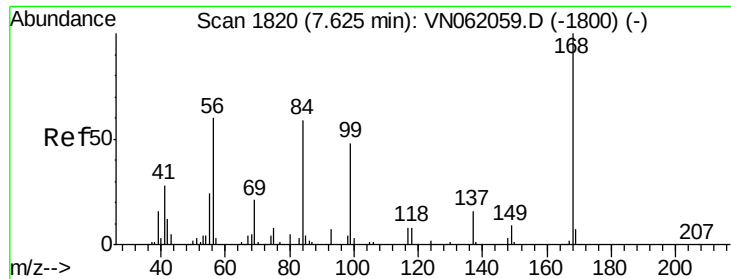
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN070120\  
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Sample : L3192-08  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
BP-MW180-FB-20200630

Quant Time: Jul 02 06:56:02 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N062420W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 24 15:33:00 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062300.D

Acq: 1 Jul 2020 18:31

Instrument :

MSVOA\_N

ClientSampleId :

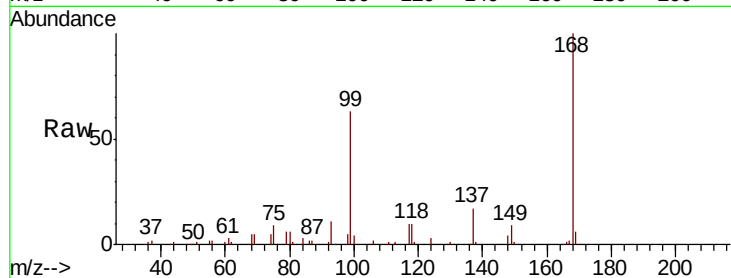
BP-MW180-FB-20200630

Tot Ion:168 Resp: 183805

Ion Ratio Lower Upper

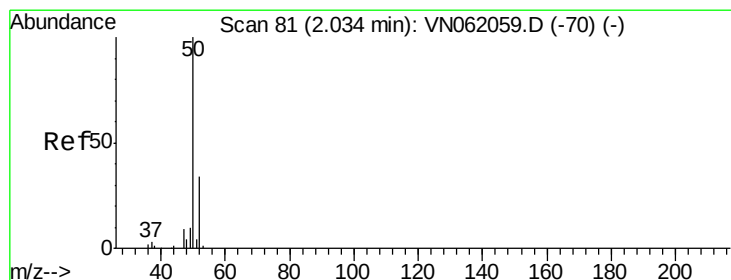
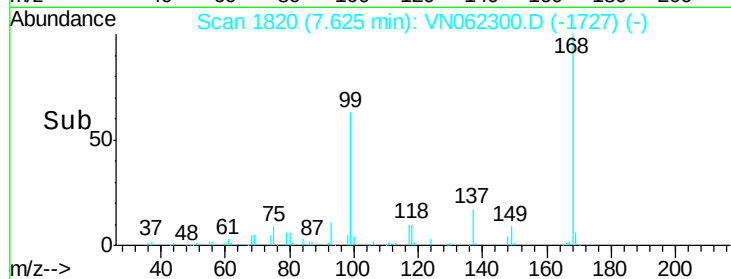
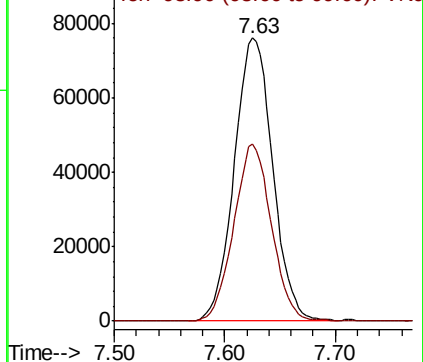
168 100

99 62.5 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 79

Delta R.T. -0.01 min

Lab File: VN062300.D

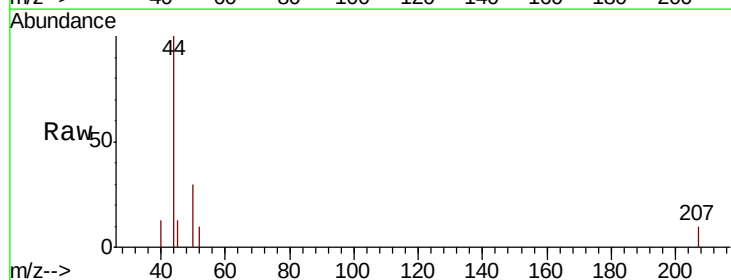
Acq: 1 Jul 2020 18:31

Tgt Ion: 50 Resp: 793

Ion Ratio Lower Upper

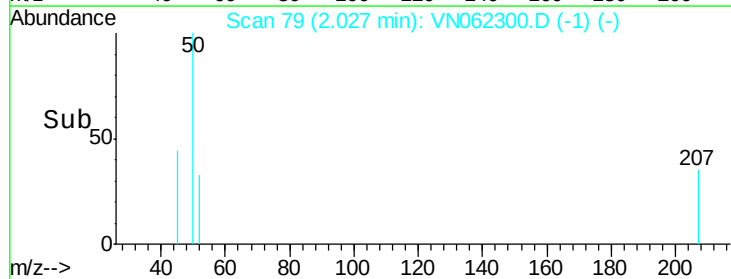
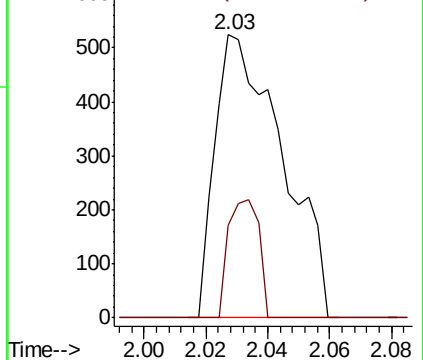
50 100

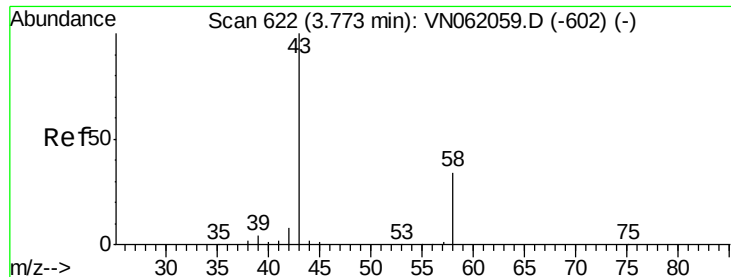
52 32.6 27.0 40.6



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#16

Acetone

Concen: 7.985 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062300.D

Acq: 1 Jul 2020 18:31

Instrument :

MSVOA\_N

ClientSampleId :

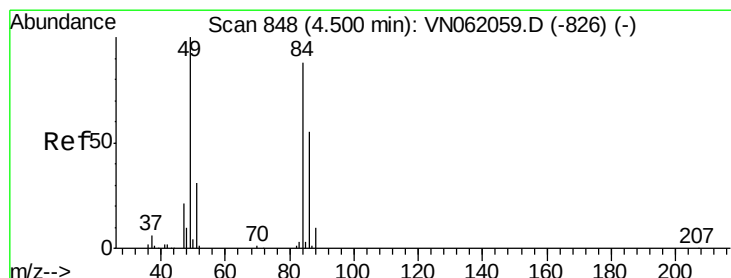
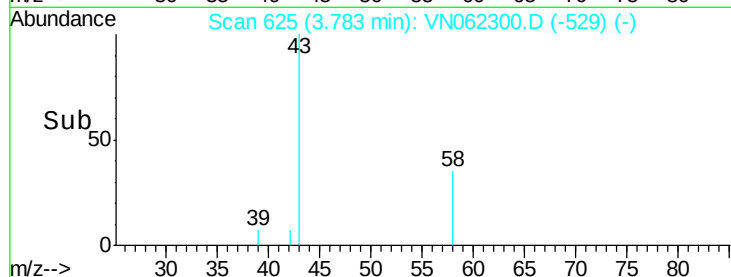
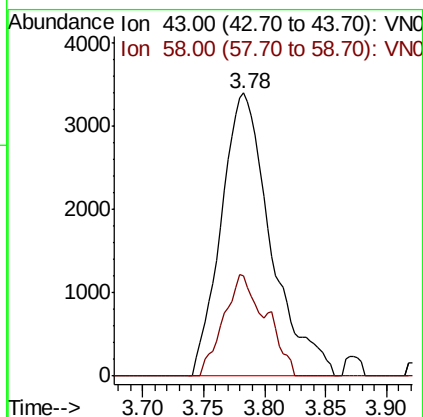
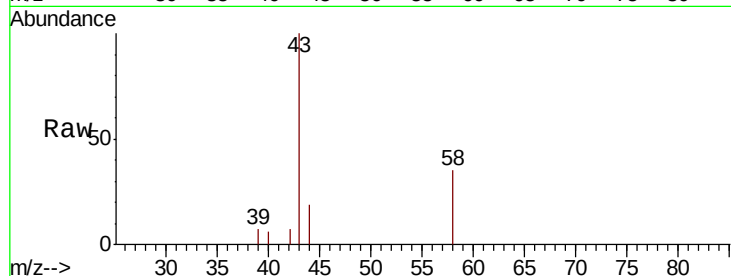
BP-MW180-FB-20200630

Tot Ion: 43 Resp: 9640

Ion Ratio Lower Upper

43 100

58 35.2 27.5 41.3



#20

Methylene Chloride

Concen: 0.271 ug/l

RT: 4.50 min Scan# 848

Delta R.T. -0.00 min

Lab File: VN062300.D

Acq: 1 Jul 2020 18:31

Tgt Ion: 84 Resp: 1153

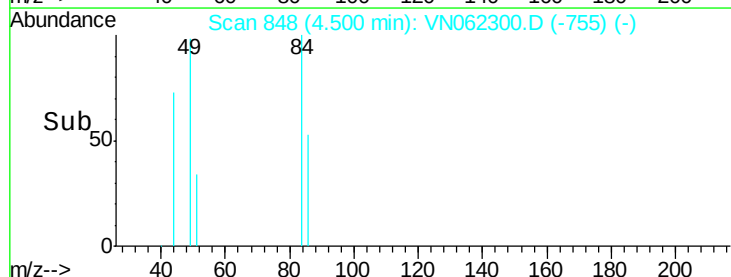
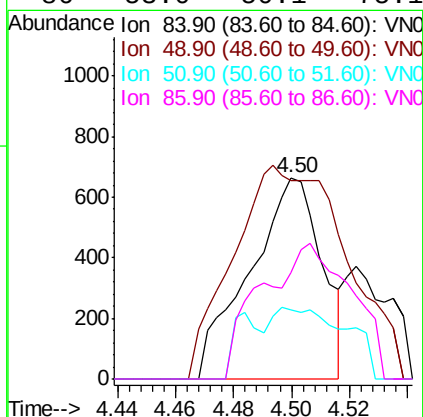
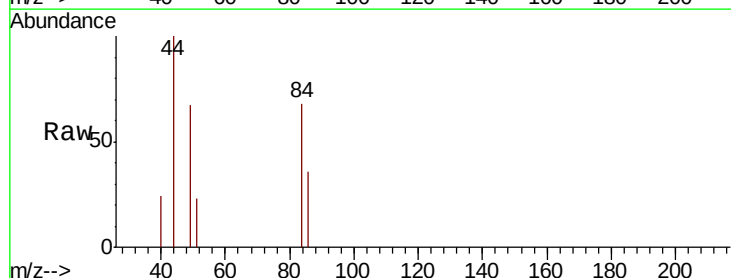
Ion Ratio Lower Upper

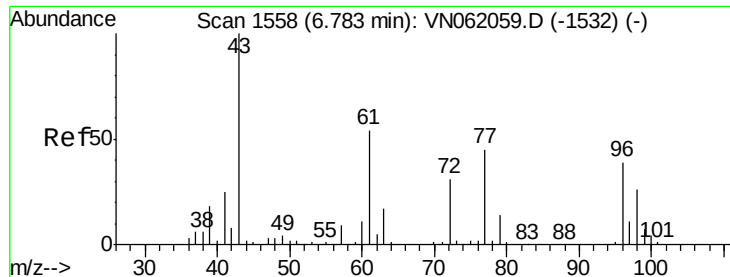
84 100

49 98.3 90.6 136.0

51 34.2 27.8 41.8

86 53.0 50.1 75.1





#25

2-Butanone

Concen: 0.250 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VN062300.D

Acq: 1 Jul 2020 18:31

Instrument :

MSVOA\_N

ClientSampleId :

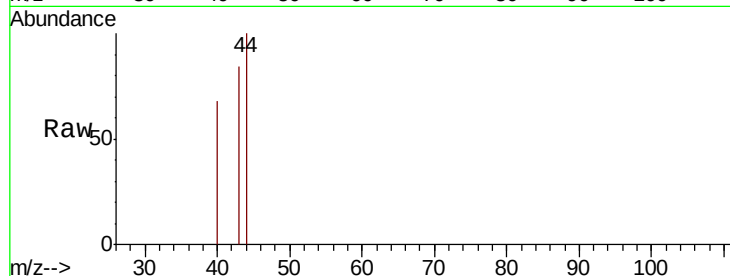
BP-MW180-FB-20200630

Tot Ion: 43 Resp: 315

Ion Ratio Lower Upper

43 100

72 0.0 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.79

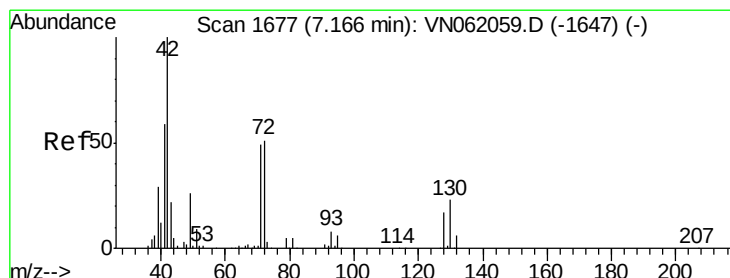
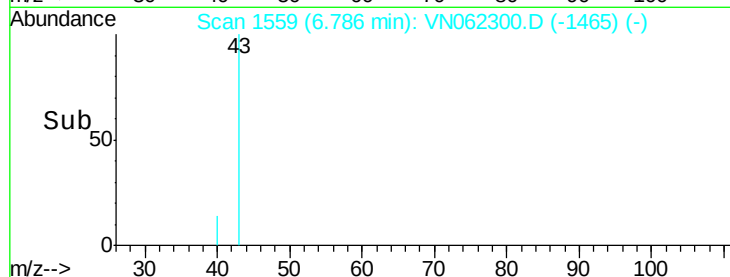
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 0.220 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.01 min

Lab File: VN062300.D

Acq: 1 Jul 2020 18:31

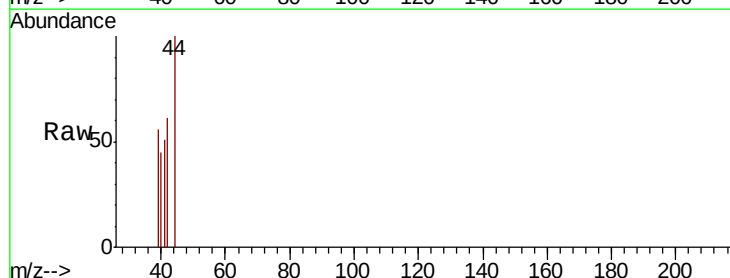
Tgt Ion: 42 Resp: 182

Ion Ratio Lower Upper

42 100

72 40.7 41.1 61.7#

71 0.0 38.2 57.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

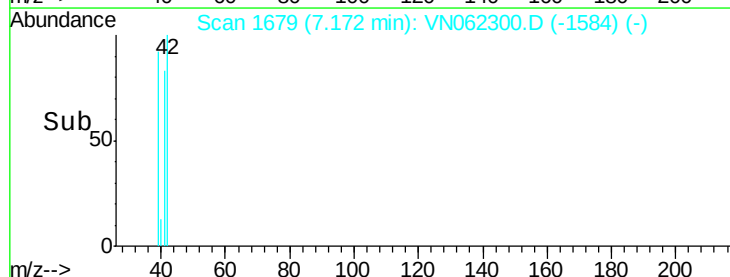
300

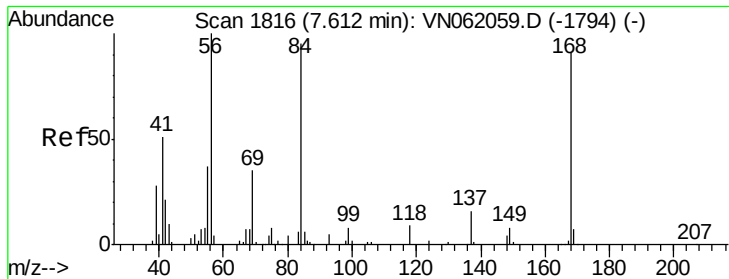
200

100

0

Time-->

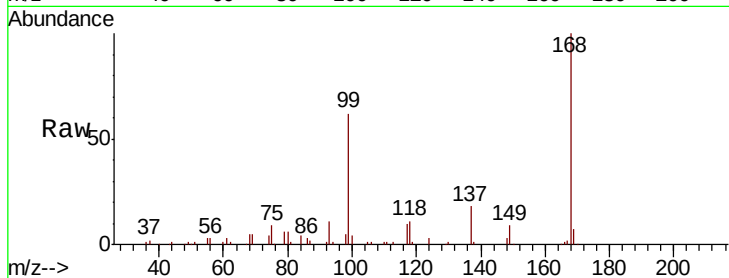




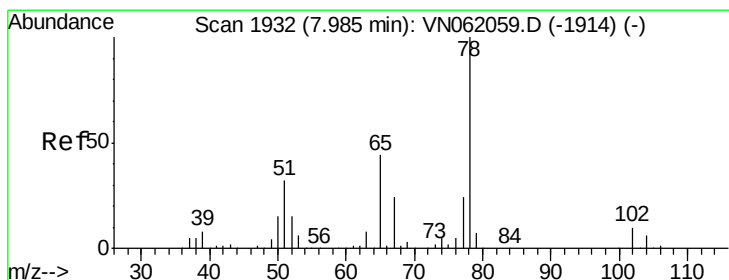
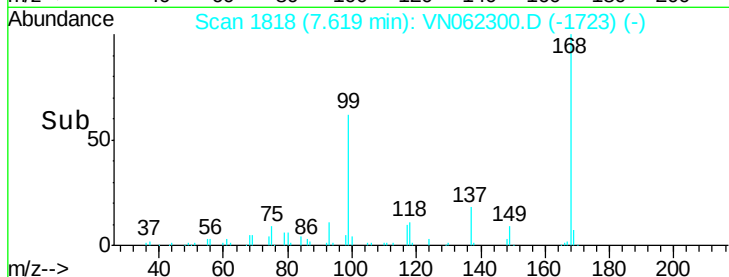
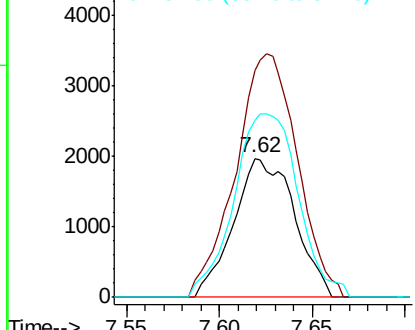
#31  
Cyclohexane  
Concen: 1.262 ug/l  
RT: 7.62 min Scan# 1816  
Delta R.T. 0.01 min  
Lab File: VN062300.D  
Acq: 1 Jul 2020 18:31

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-MW180-FB-20200630

Tot Ion: 56 Resp: 4498  
Ion Ratio Lower Upper  
56 100  
69 163.4 28.0 42.0#  
84 128.0 76.1 114.1#

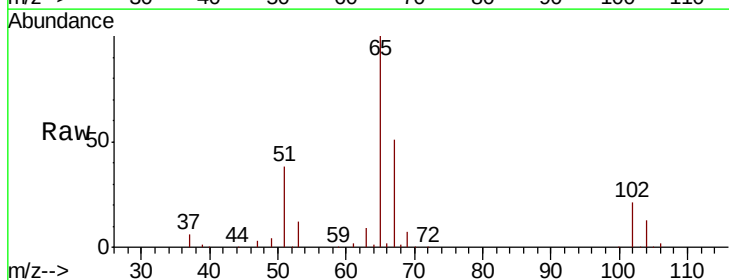


Abundance Ion 56.00 (55.70 to 56.70): VNC  
Ion 69.00 (68.70 to 69.70): VNC  
Ion 84.00 (83.70 to 84.70): VNC

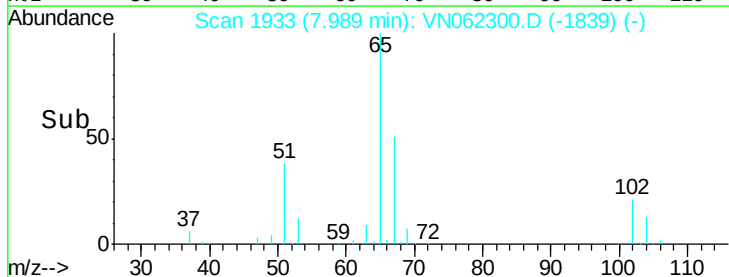
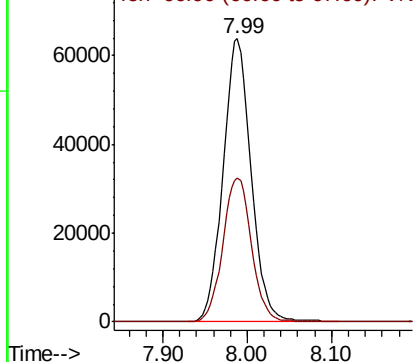


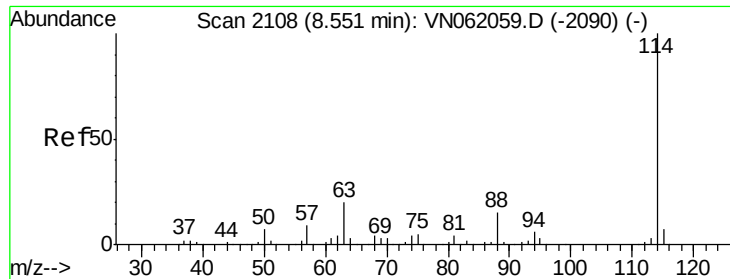
#33  
1,2-Dichloroethane-d4  
Concen: 57.086 ug/l  
RT: 7.99 min Scan# 1933  
Delta R.T. 0.00 min  
Lab File: VN062300.D  
Acq: 1 Jul 2020 18:31

Tgt Ion: 65 Resp: 147247  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 106.2



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

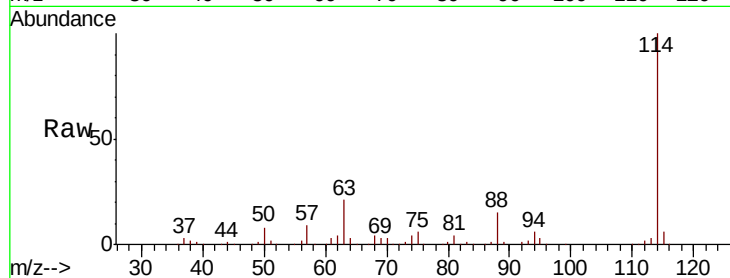




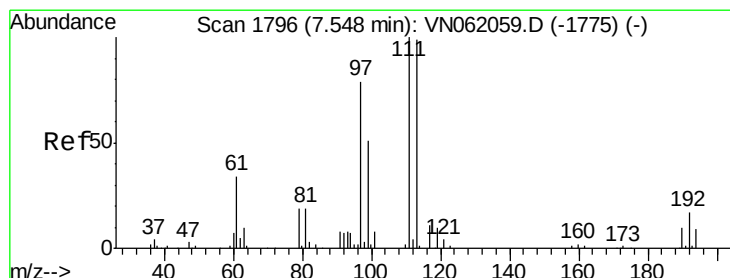
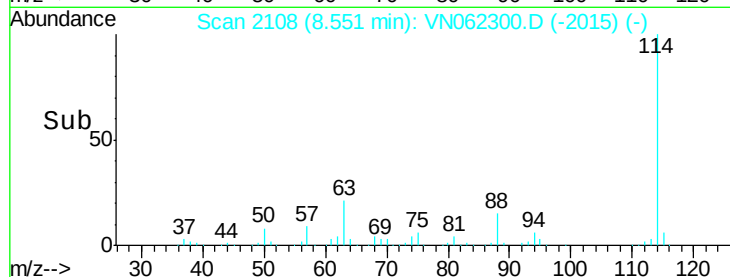
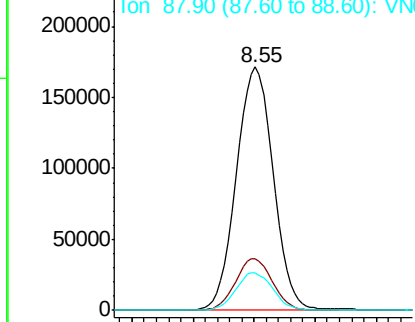
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.55 min Scan# 2108  
Delta R.T. -0.00 min  
Lab File: VN062300.D  
Acq: 1 Jul 2020 18:31

Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-MW180-FB-20200630

Tot Ion:114 Resp: 359275  
Ion Ratio Lower Upper  
114 100  
63 21.3 0.0 39.2  
88 15.2 0.0 30.8

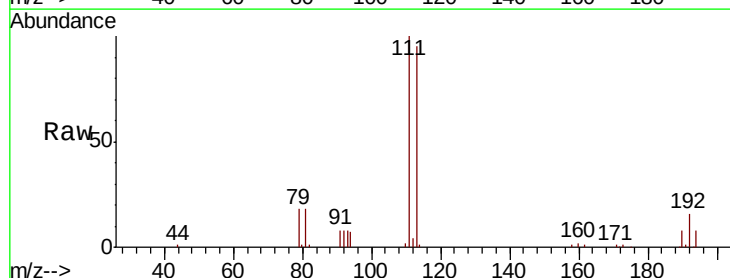


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VN  
Ion 87.90 (87.60 to 88.60): VN

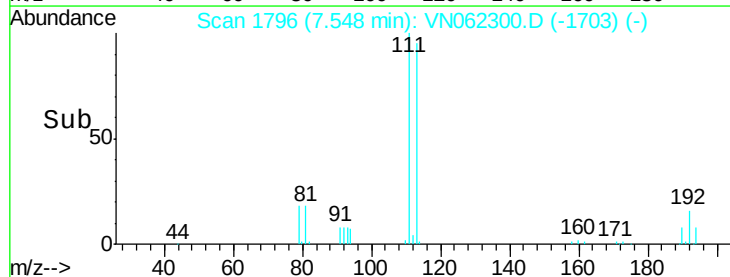
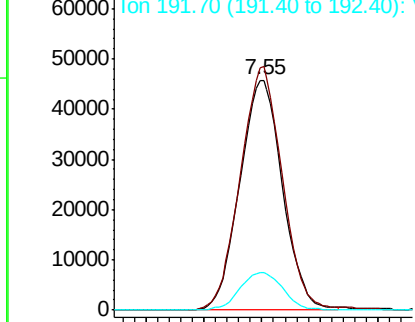


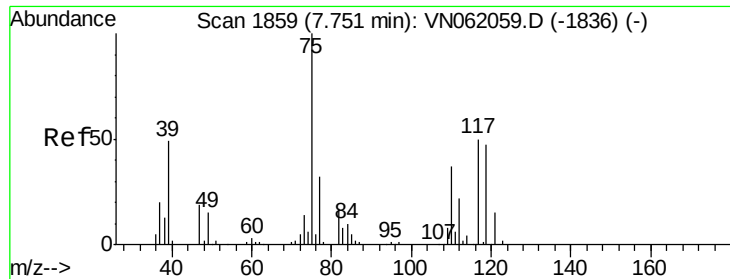
#35  
Dibromofluoromethane  
Concen: 50.830 ug/l  
RT: 7.55 min Scan# 1796  
Delta R.T. -0.00 min  
Lab File: VN062300.D  
Acq: 1 Jul 2020 18:31

Tgt Ion:113 Resp: 117159  
Ion Ratio Lower Upper  
113 100  
111 104.3 82.2 123.4  
192 16.4 14.0 21.0



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

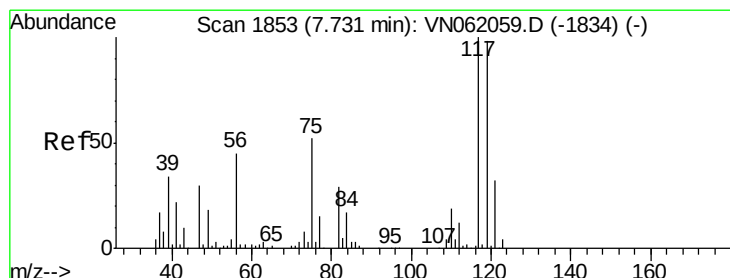
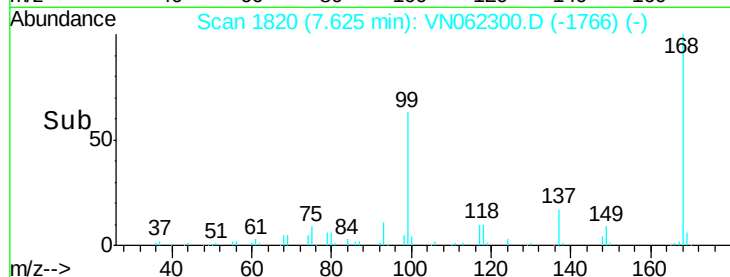
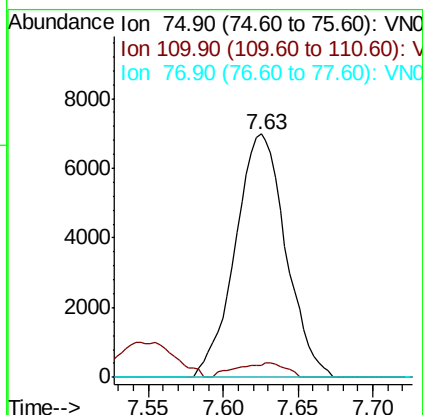
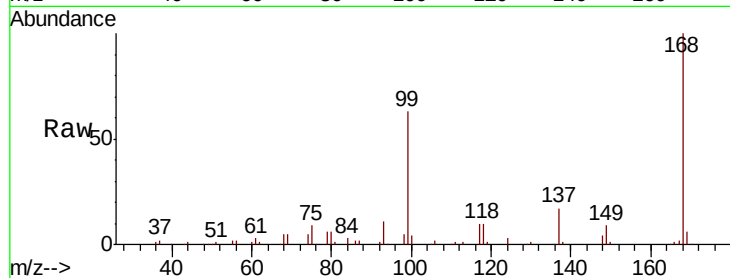




#36  
 1,1-Dichloropropene  
 Concen: 4.541 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.13 min  
 Lab File: VN062300.D  
 Acq: 1 Jul 2020 18:31

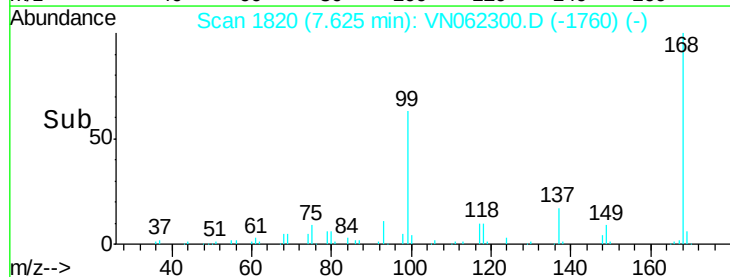
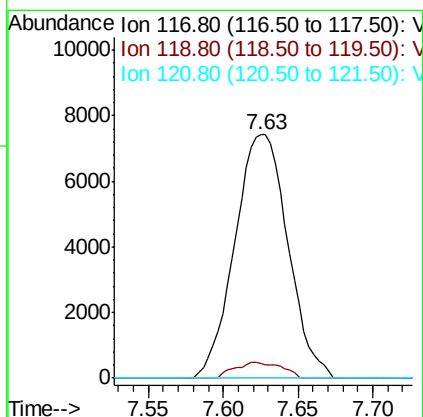
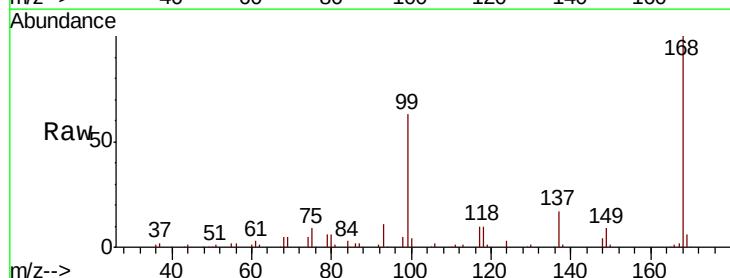
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 BP-MW180-FB-20200630

| Tot Ion   | 75  | Resp  | 16398 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 75        | 100 |       |       |
| 110       | 5.8 | 17.9  | 53.8# |
| 77        | 0.0 | 24.9  | 37.3# |

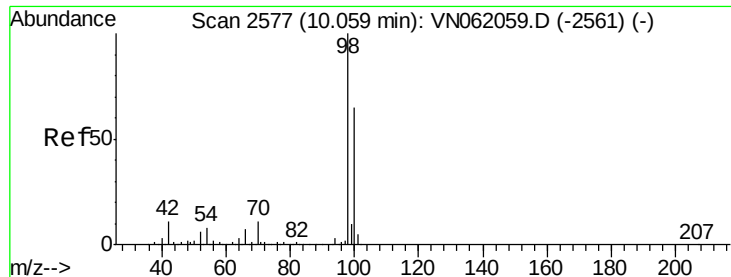


#38  
 Carbon Tetrachloride  
 Concen: 5.375 ug/l  
 RT: 7.63 min Scan# 1820  
 Delta R.T. -0.11 min  
 Lab File: VN062300.D  
 Acq: 1 Jul 2020 18:31

| Tgt Ion   | 117 | Resp  | 18301  |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 117       | 100 |       |        |
| 119       | 6.1 | 78.2  | 117.2# |
| 121       | 0.0 | 25.8  | 38.6#  |



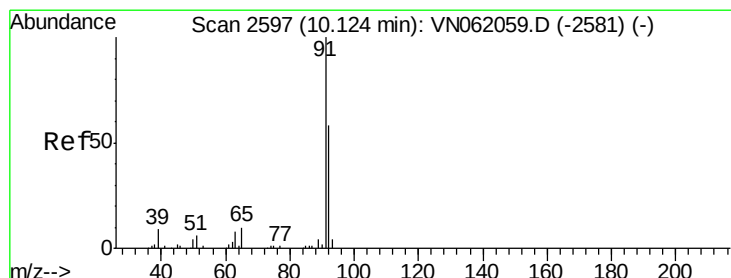
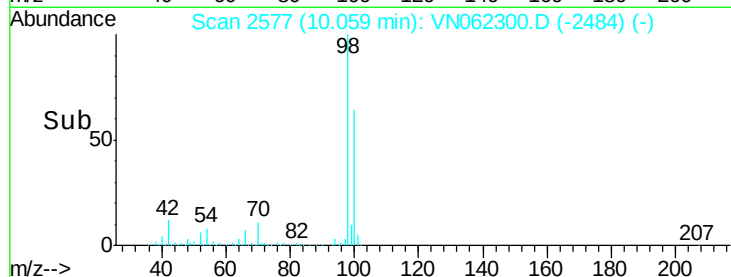
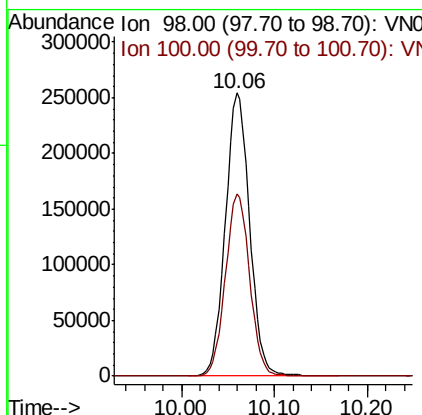
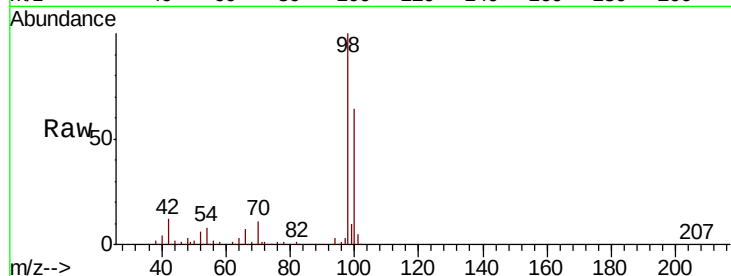




#50  
Toluene-d8  
Concen: 50.137 ug/l  
RT: 10.06 min Scan# 2577  
Delta R.T. -0.00 min  
Lab File: VN062300.D  
Acq: 1 Jul 2020 18:31

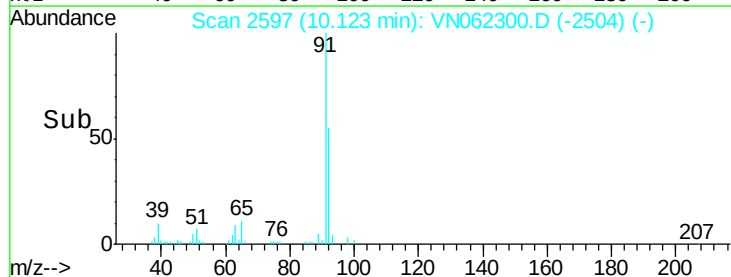
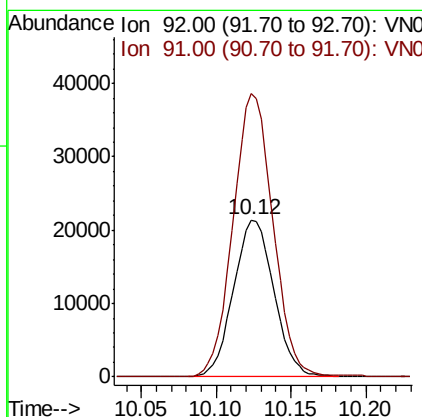
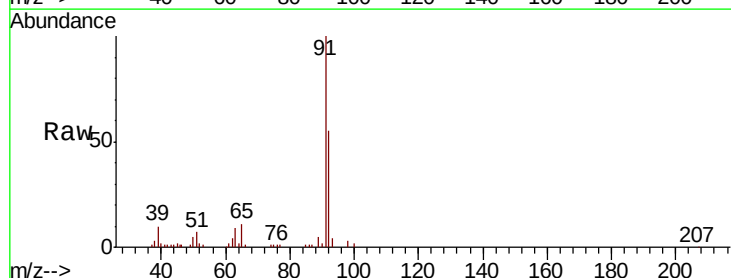
Instrument :  
MSVOA\_N  
ClientSampleId :  
BP-MW180-FB-20200630

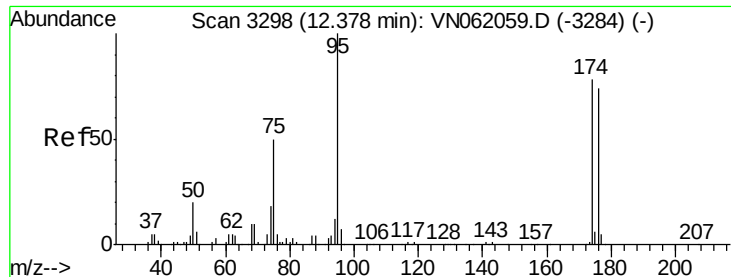
Tot Ion: 98 Resp: 461944  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.2 76.8



#52  
Toluene  
Concen: 5.999 ug/l  
RT: 10.12 min Scan# 2597  
Delta R.T. -0.00 min  
Lab File: VN062300.D  
Acq: 1 Jul 2020 18:31

Tgt Ion: 92 Resp: 40289  
Ion Ratio Lower Upper  
92 100  
91 177.9 137.4 206.0





#62

4-Bromofluorobenzene

Concen: 46.171 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062300.D

Acq: 1 Jul 2020 18:31

Instrument :

MSVOA\_N

ClientSampleId :

BP-MW180-FB-20200630

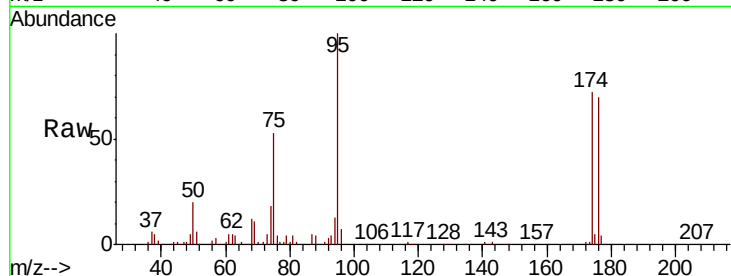
Tot Ion: 95 Resp: 143725

Ion Ratio Lower Upper

95 100

174 72.5 0.0 154.8

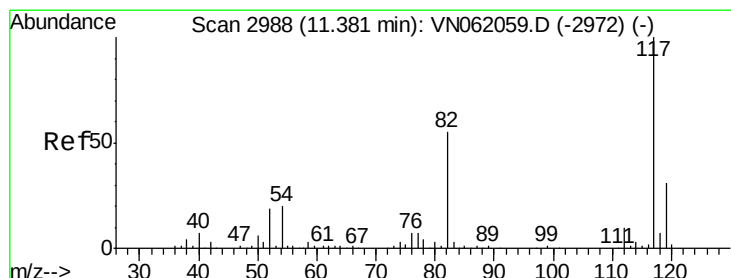
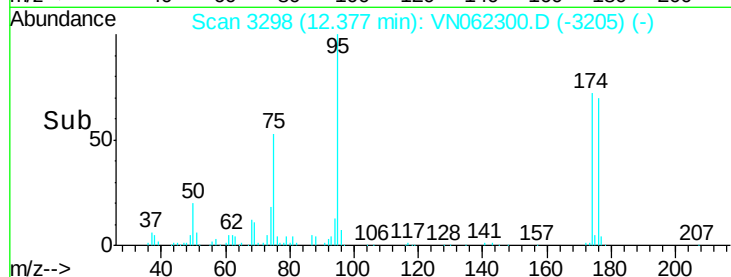
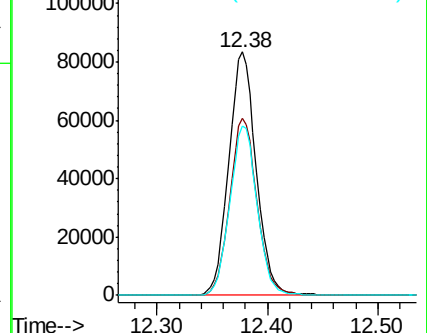
176 69.0 0.0 147.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062300.D

Acq: 1 Jul 2020 18:31

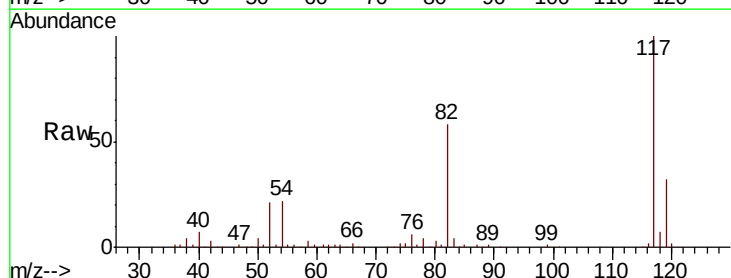
Tgt Ion: 117 Resp: 341205

Ion Ratio Lower Upper

117 100

82 58.2 43.8 65.8

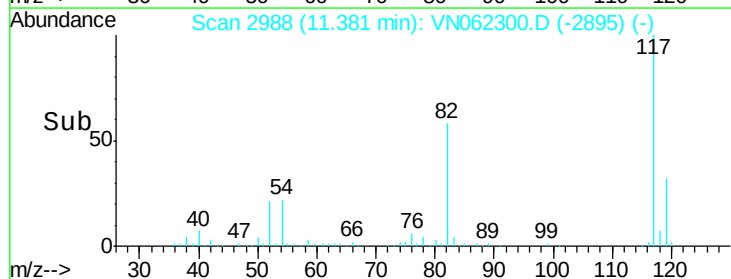
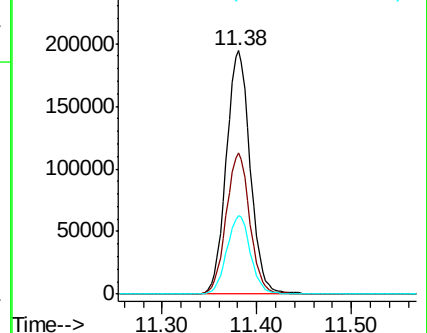
119 32.4 25.2 37.8

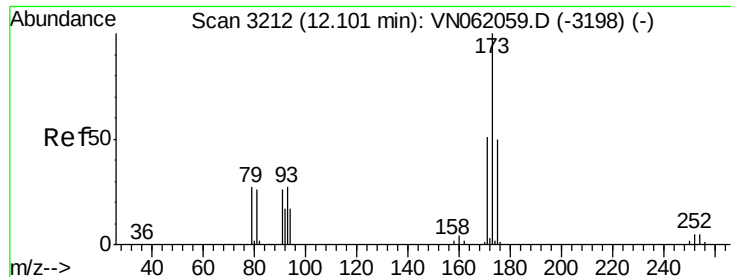


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.675 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062300.D

Acq: 1 Jul 2020 18:31

Instrument :

MSVOA\_N

ClientSampleId :

BP-MW180-FB-20200630

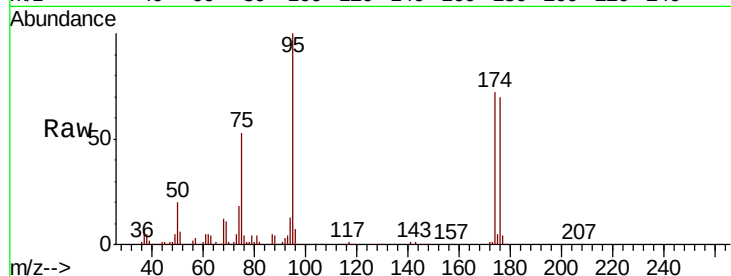
Tot Ion:173 Resp: 1244

Ion Ratio Lower Upper

173 100

175 511.7 24.7 74.1#

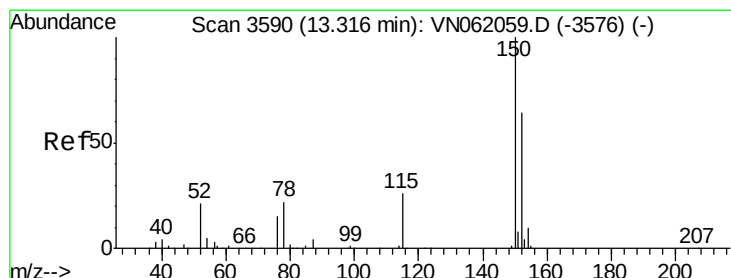
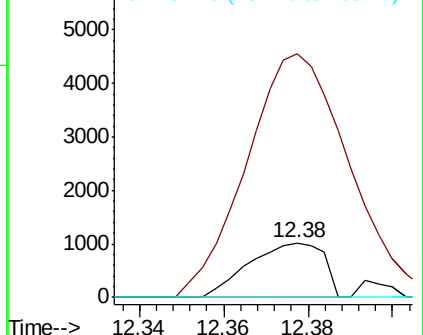
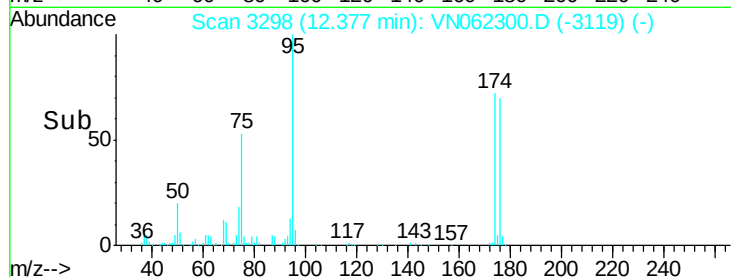
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062300.D

Acq: 1 Jul 2020 18:31

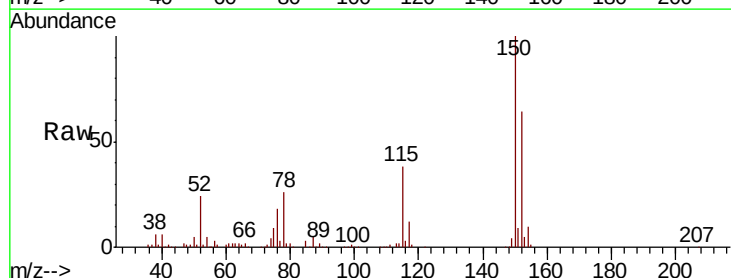
Tgt Ion:152 Resp: 117733

Ion Ratio Lower Upper

152 100

115 59.5 29.5 88.5

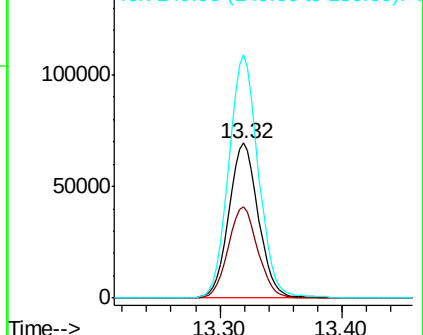
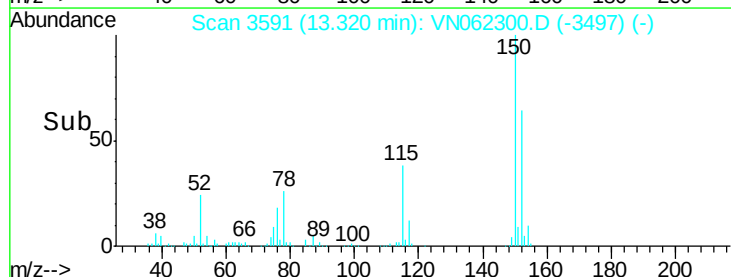
150 157.2 0.0 351.4

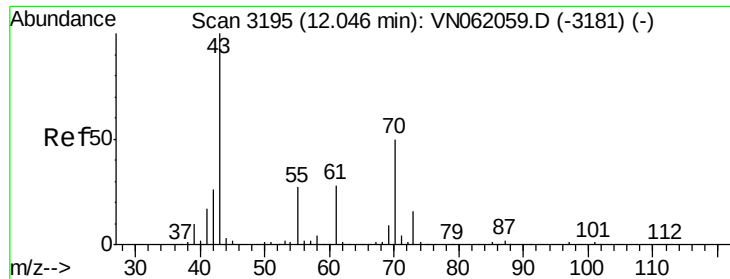


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.352 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.02 min

Lab File: VN062300.D

Acq: 1 Jul 2020 18:31

Instrument :

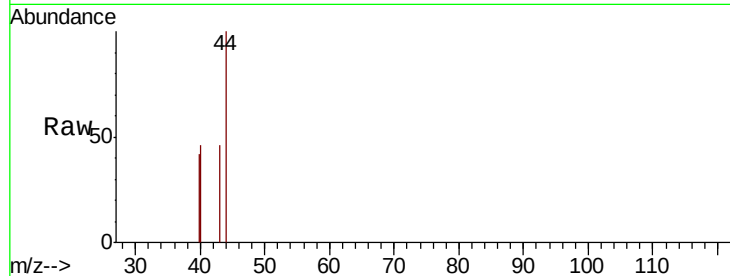
MSVOA\_N

ClientSampleId :

BP-MW180-FB-20200630

Tot Ion: 43 Resp: 33

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 70  | 0.0   | 39.4  | 59.2# |
| 55  | 0.0   | 21.7  | 32.5# |
| 61  | 0.0   | 21.3  | 31.9# |

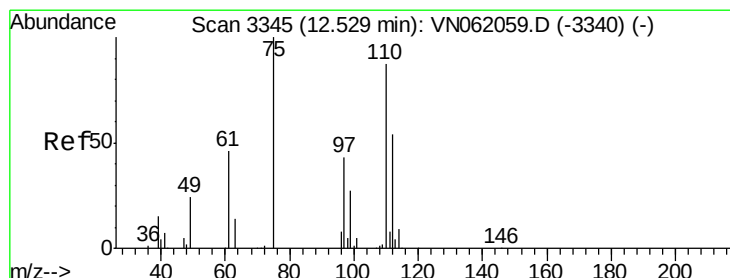
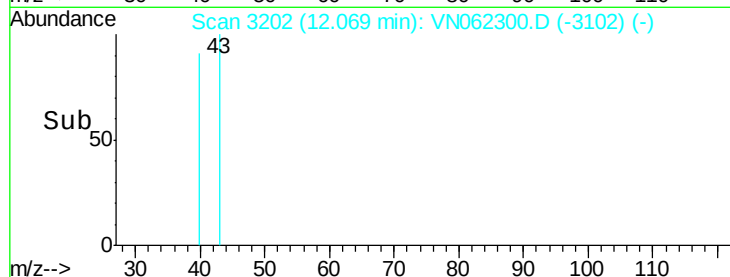
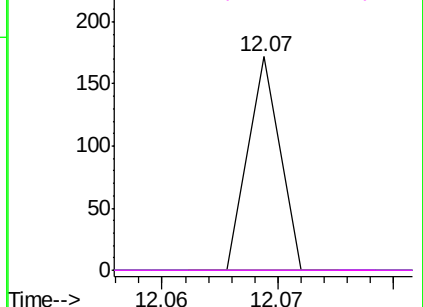


Abundance Ion 43.00 (42.70 to 43.70): VN062300.D (-3102) (-)

Ion 70.00 (69.70 to 70.70): VN062300.D (-3102) (-)

Ion 55.00 (54.70 to 55.70): VN062300.D (-3102) (-)

Ion 61.00 (60.70 to 61.70): VN062300.D (-3102) (-)



#76

1,2,3-Trichloropropane

Concen: 27.071 ug/l

RT: 12.38 min Scan# 3298

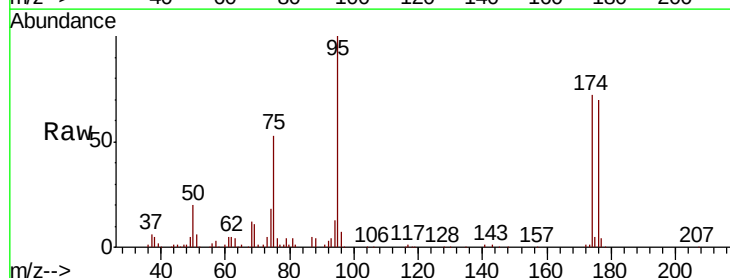
Delta R.T. -0.15 min

Lab File: VN062300.D

Acq: 1 Jul 2020 18:31

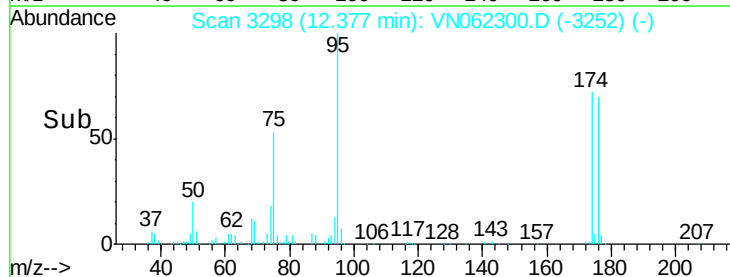
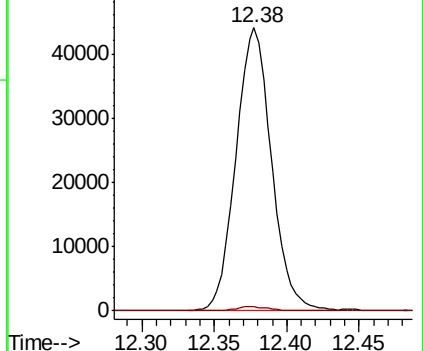
Tgt Ion: 75 Resp: 75028

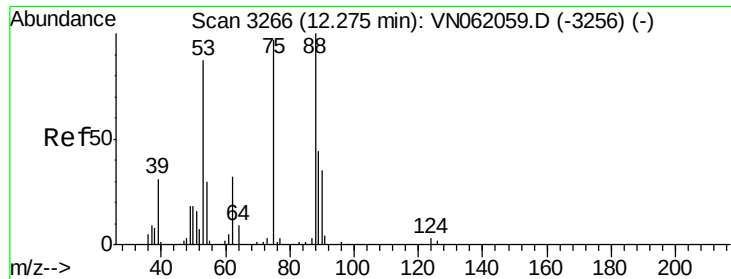
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 77  | 1.2   | 0.0   | 0.0#  |



Abundance Ion 74.90 (74.60 to 75.60): VN062300.D (-3252) (-)

Ion 77.00 (76.70 to 77.70): VN062300.D (-3252) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 79.057 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062300.D

Acq: 1 Jul 2020 18:31

Instrument :

MSVOA\_N

ClientSampleId :

BP-MW180-FB-20200630

Tot Ion: 75 Resp: 75028

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#

