

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090220\  
 Data File : VN063205.D  
 Acq On : 2 Sep 2020 19:28  
 Operator : JC/MD  
 Sample : L3814-11  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 08-09-12

Quant Time: Sep 03 07:28:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N083120W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 01 04:21:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.63  | 168  | 381142   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.55  | 114  | 780377   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.38 | 117  | 805802   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.32 | 152  | 322010   | 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   | 313589   | 50.33  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.66% |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 239225   | 47.78  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 95.56%  |          |
| 50) Toluene-d8              | 10.06 | 98   | 951162   | 49.36  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.72%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 370582   | 54.98  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.96% |          |

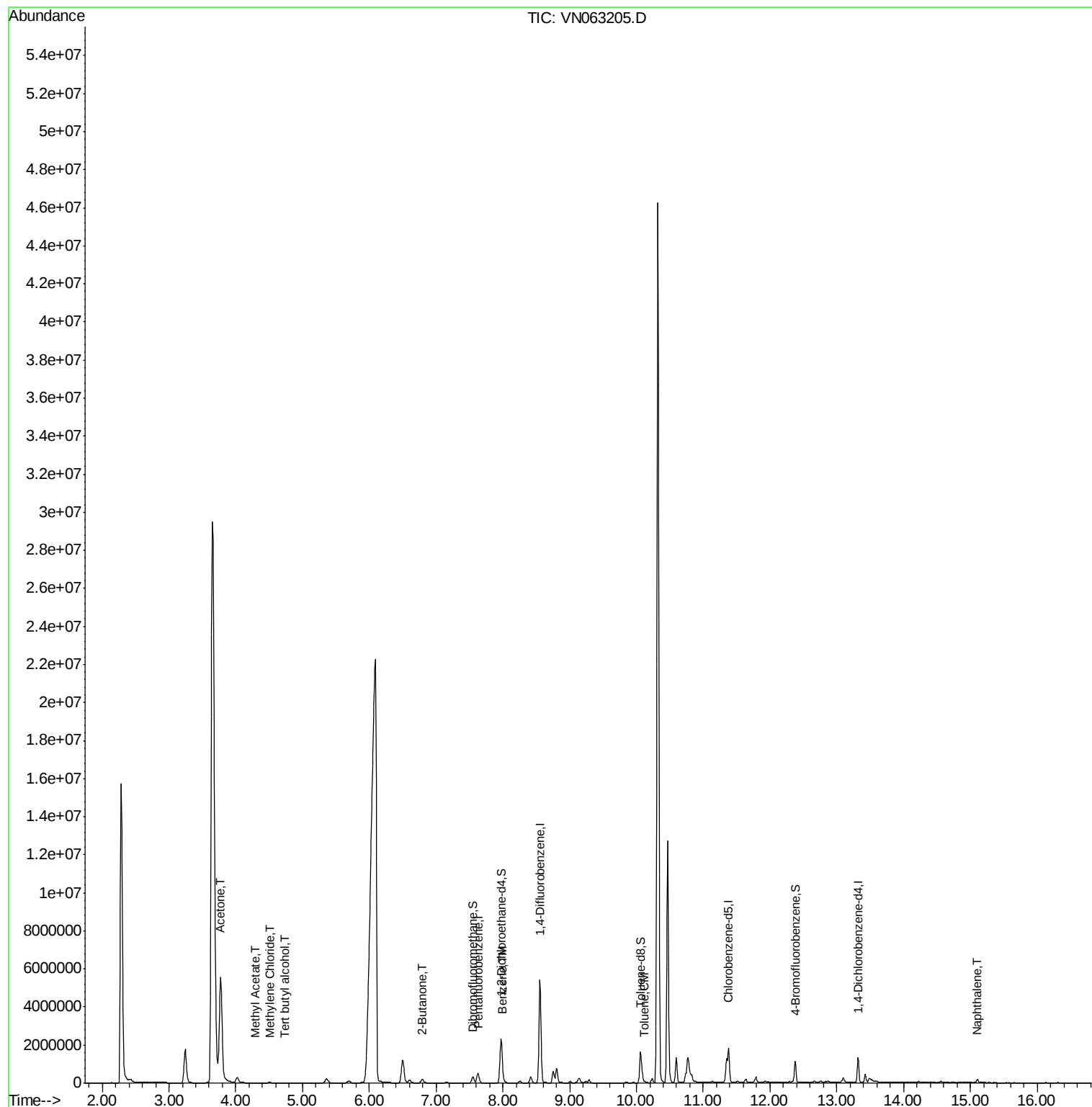
| Target Compounds       | R.T.  | QIon | Response | Conc     | Units  | Qvalue |
|------------------------|-------|------|----------|----------|--------|--------|
| 11) Tert butyl alcohol | 4.73  | 59   | 32588    | 42.610   | ug/l # | 91     |
| 16) Acetone            | 3.77  | 43   | 9126056  | 5152.563 | ug/l # | 69     |
| 18) Methyl Acetate     | 4.29  | 43   | 13957    | 3.073    | ug/l # | 74     |
| 20) Methylene Chloride | 4.51  | 84   | 20000    | 3.559    | ug/l   | 88     |
| 25) 2-Butanone         | 6.79  | 43   | 300392   | 109.533  | ug/l   | 100    |
| 40) Benzene            | 8.00  | 78   | 25386    | 1.152    | ug/l   | 99     |
| 52) Toluene            | 10.13 | 92   | 15975    | 1.163    | ug/l   | 91     |
| 95) Naphthalene        | 15.11 | 128  | 137941   | 7.432    | ug/l   | 98     |

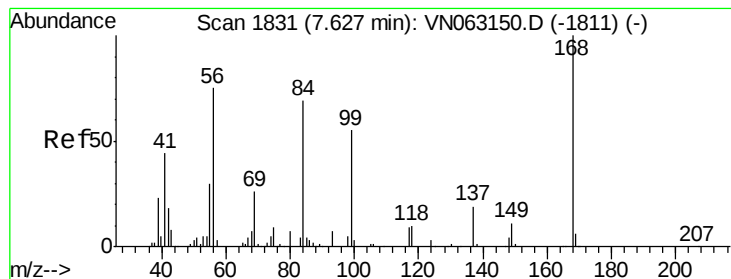
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N083120W.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 01 04:21:28 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063205.D

Acq: 2 Sep 2020 19:28

Instrument :

MSVOA\_N

ClientSampled :

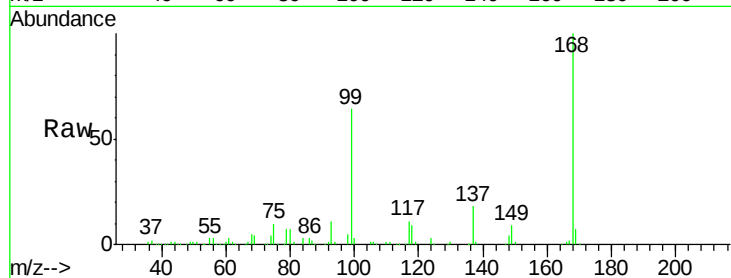
08-09-12

Tot Ion:168 Resp: 381142

Ion Ratio Lower Upper

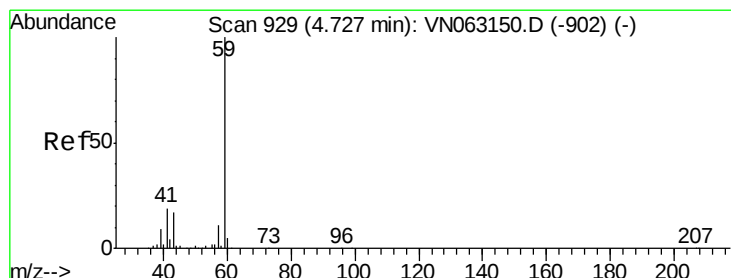
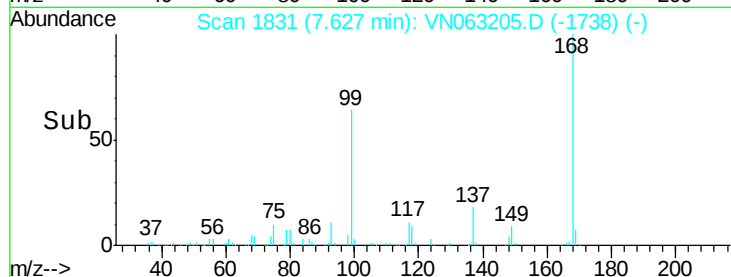
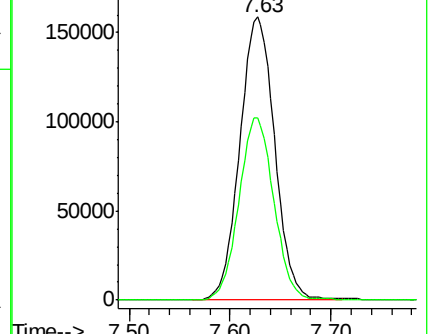
168 100

99 64.3 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 42.610 ug/l

RT: 4.73 min Scan# 930

Delta R.T. 0.00 min

Lab File: VN063205.D

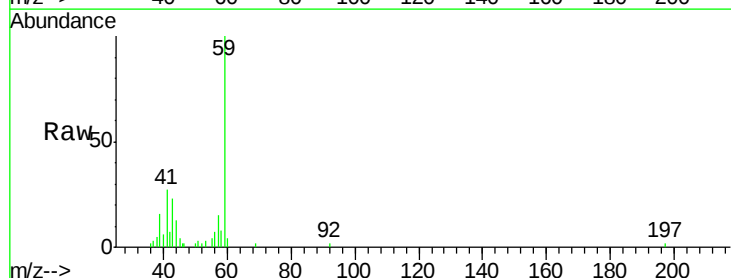
Acq: 2 Sep 2020 19:28

Tgt Ion: 59 Resp: 32588

Ion Ratio Lower Upper

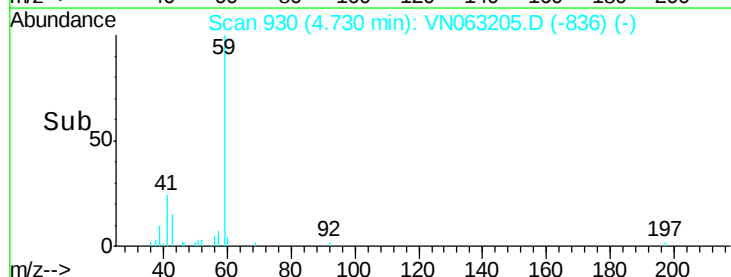
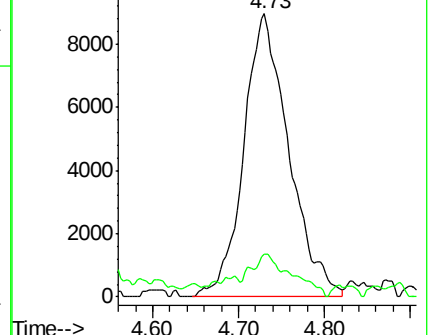
59 100

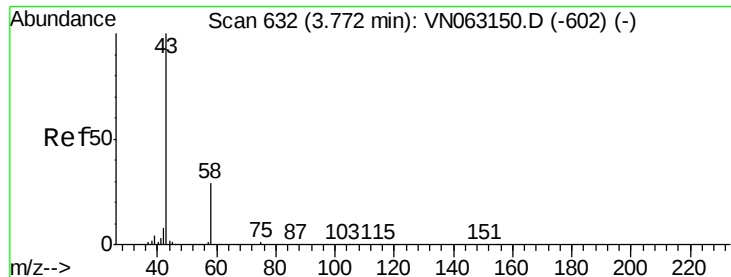
57 13.7 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

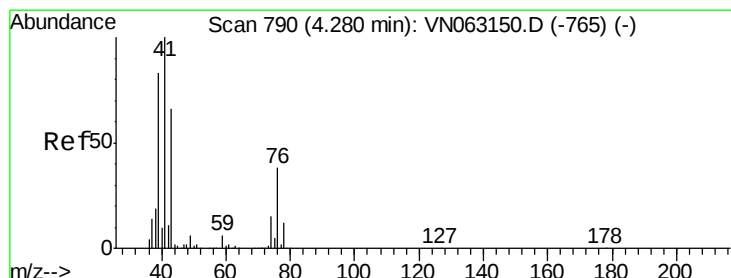
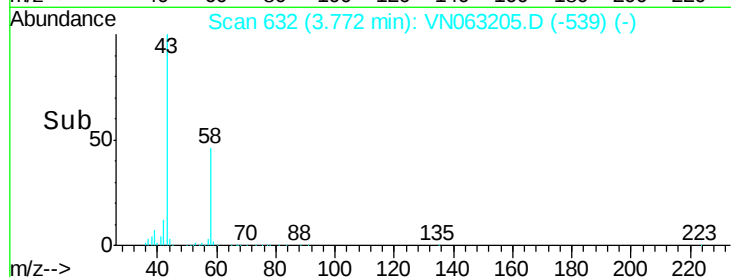
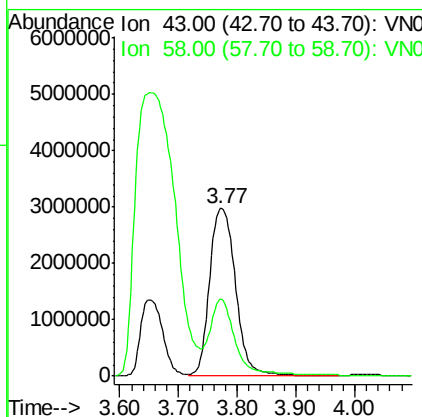
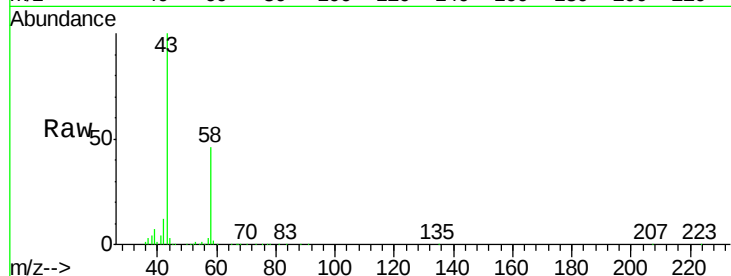




#16  
Acetone  
Concen: 5152.563 ug/l  
RT: 3.77 min Scan# 632  
Delta R.T. 0.00 min  
Lab File: VN063205.D  
Acq: 2 Sep 2020 19:28

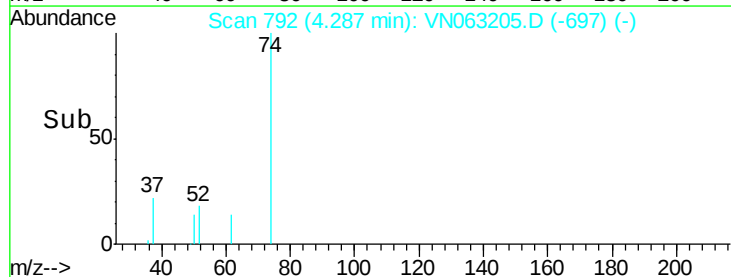
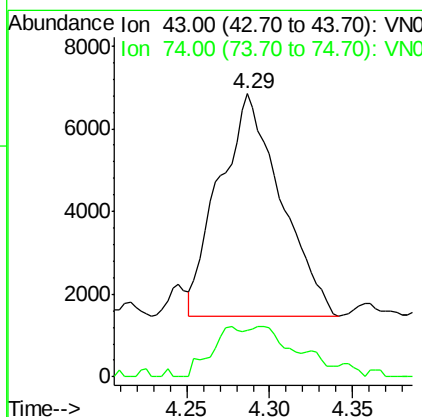
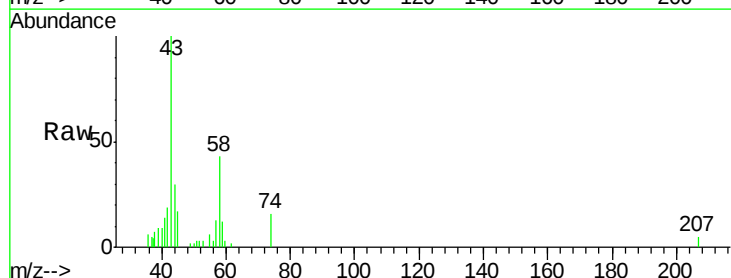
Instrument :  
MSVOA\_N  
ClientSampled :  
08-09-12

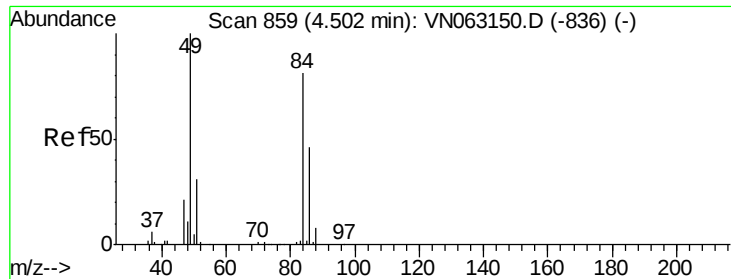
Tot Ion: 43 Resp: 9126056  
Ion Ratio Lower Upper  
43 100  
58 45.4 23.1 34.7#



#18  
Methyl Acetate  
Concen: 3.073 ug/l  
RT: 4.29 min Scan# 792  
Delta R.T. 0.01 min  
Lab File: VN063205.D  
Acq: 2 Sep 2020 19:28

Tgt Ion: 43 Resp: 13957  
Ion Ratio Lower Upper  
43 100  
74 11.2 19.0 28.6#

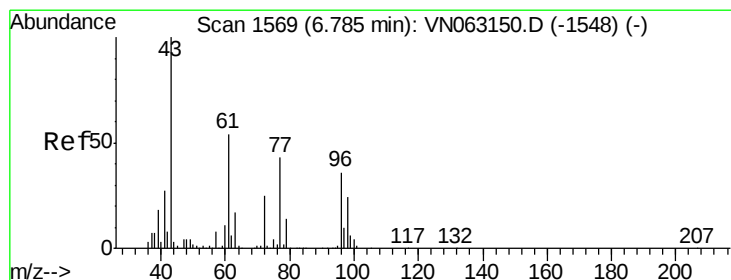
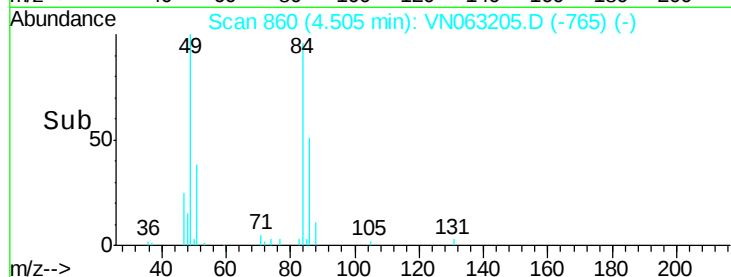
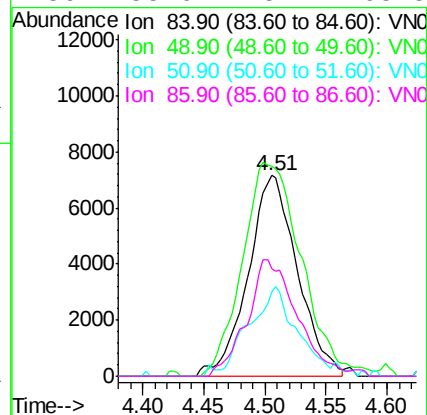
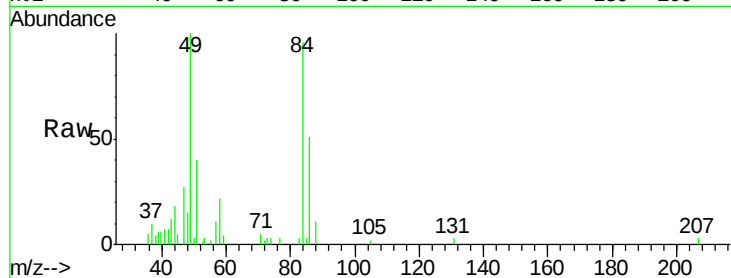




#20  
Methvlene Chloride  
Concen: 3.559 ug/l  
RT: 4.51 min Scan# 860  
Delta R.T. 0.00 min  
Lab File: VN063205.D  
Acq: 2 Sep 2020 19:28

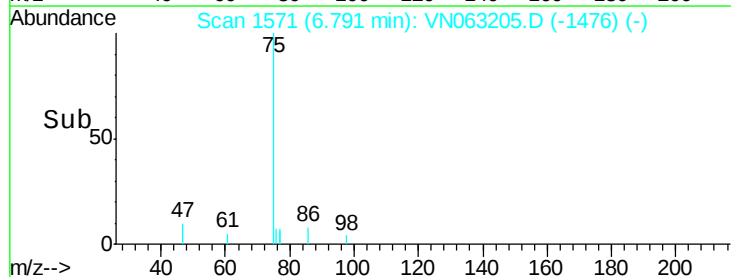
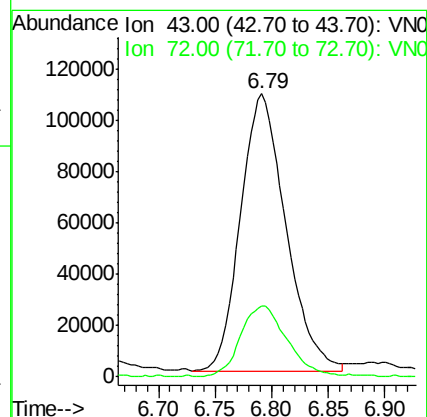
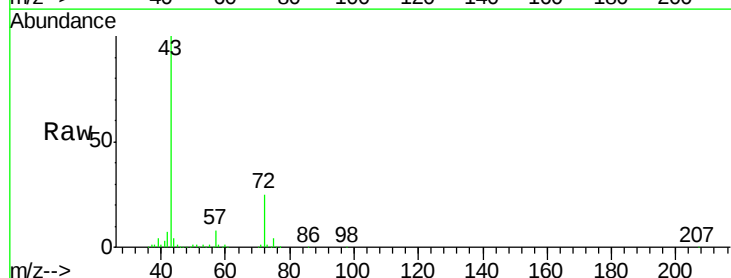
Instrument :  
MSVOA\_N  
ClientSampled :  
08-09-12

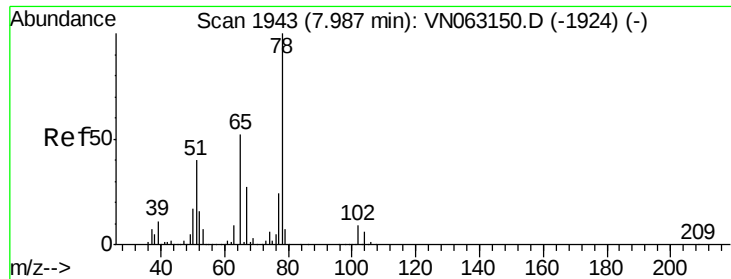
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 20000 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 104.5 | 98.4  | 147.6 |
| 51       | 42.3  | 30.4  | 45.6  |
| 86       | 53.6  | 45.7  | 68.5  |



#25  
2-Butanone  
Concen: 109.533 ug/l  
RT: 6.79 min Scan# 1571  
Delta R.T. 0.01 min  
Lab File: VN063205.D  
Acq: 2 Sep 2020 19:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 300392 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 72       | 25.2  | 20.2  | 30.4   |

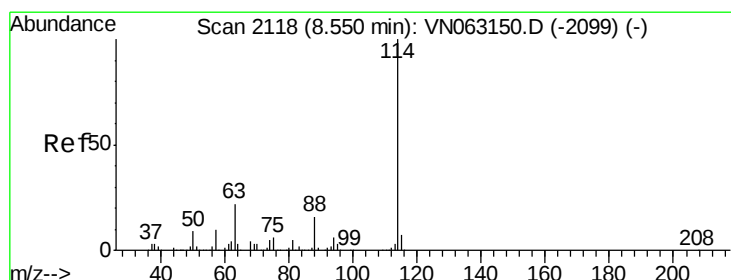
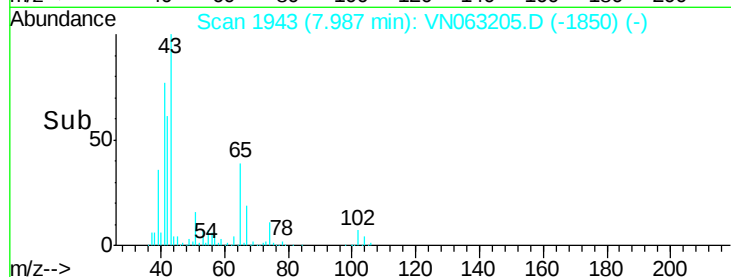
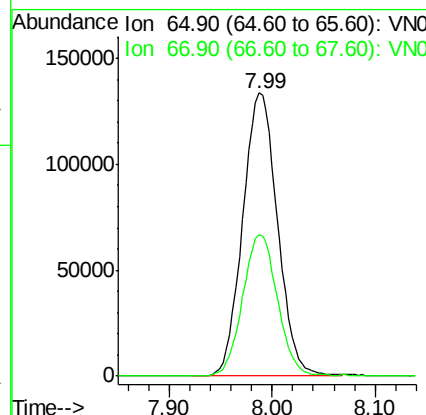
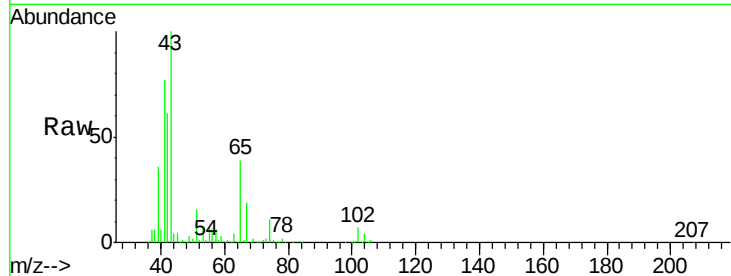




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.331 ug/l  
 RT: 7.99 min Scan# 1943  
 Delta R.T. 0.00 min  
 Lab File: VN063205.D  
 Acq: 2 Sep 2020 19:28

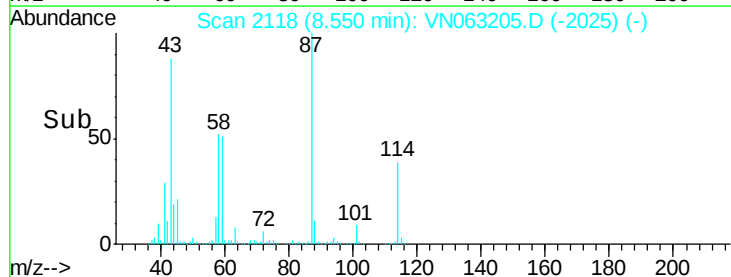
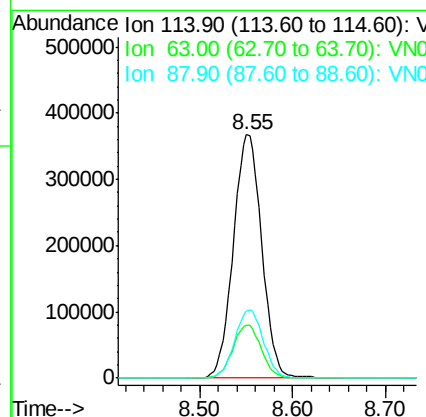
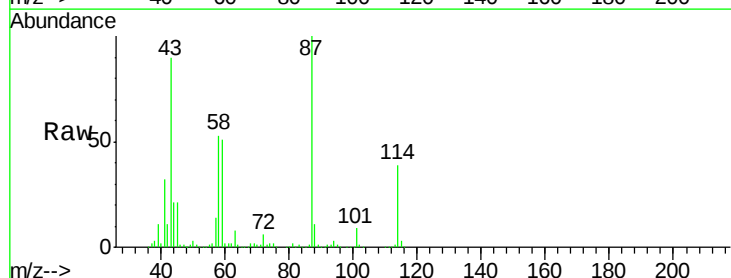
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 08-09-12

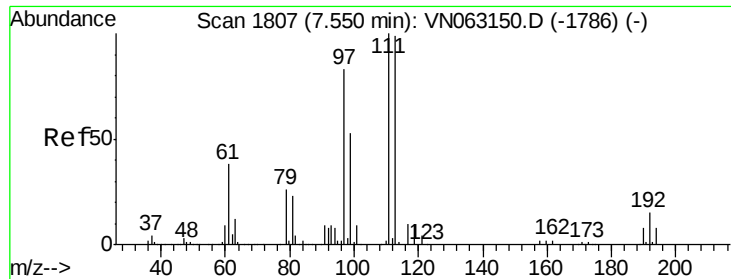
Tot Ion: 65 Resp: 313589  
 Ion Ratio Lower Upper  
 65 100  
 67 50.2 0.0 104.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2118  
 Delta R.T. 0.00 min  
 Lab File: VN063205.D  
 Acq: 2 Sep 2020 19:28

Tgt Ion: 114 Resp: 780377  
 Ion Ratio Lower Upper  
 114 100  
 63 21.7 0.0 43.0  
 88 27.7 0.0 31.6

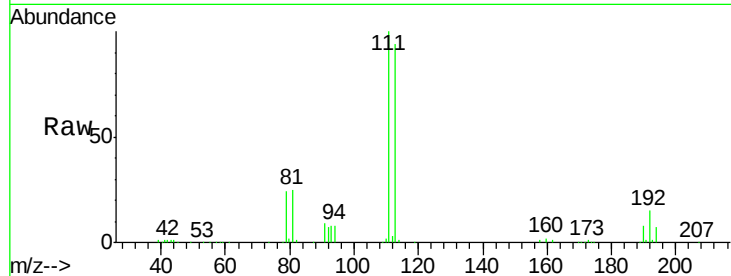




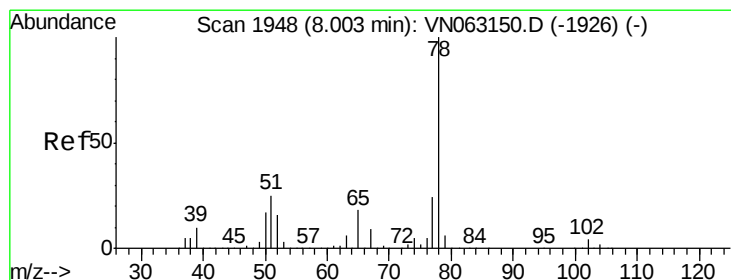
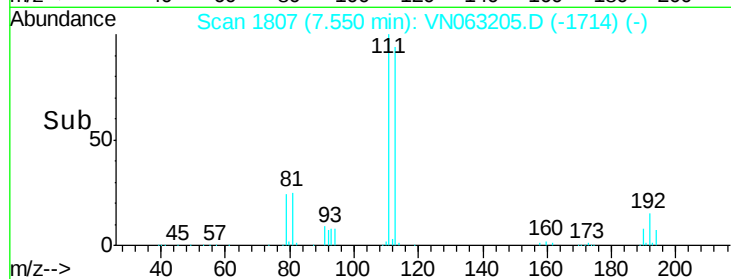
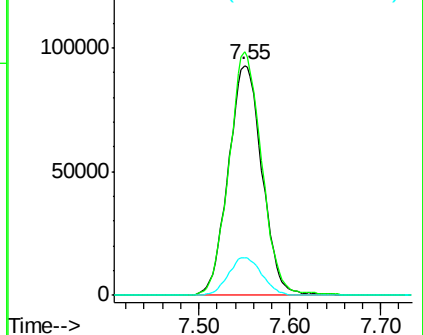
#35  
 Dibromofluoromethane  
 Concen: 47.783 ug/l  
 RT: 7.55 min Scan# 1807  
 Delta R.T. 0.00 min  
 Lab File: VN063205.D  
 Acq: 2 Sep 2020 19:28

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 08-09-12

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.0 | 80.7  | 121.1 |
| 192     | 16.3  | 12.6  | 19.0  |

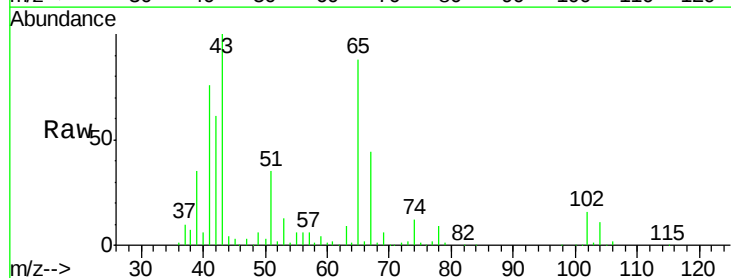


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

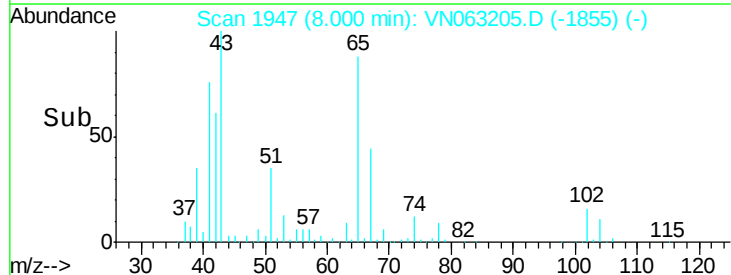
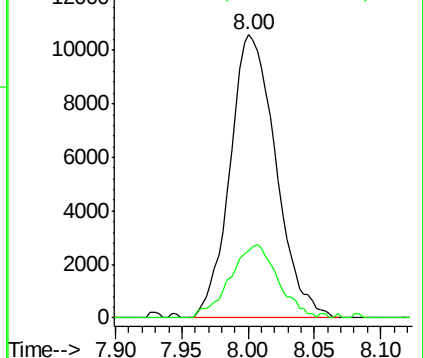


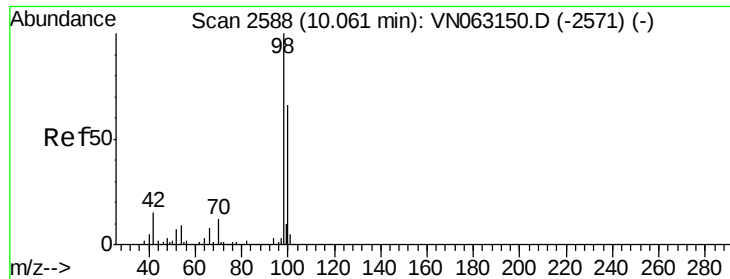
#40  
 Benzene  
 Concen: 1.152 ug/l  
 RT: 8.00 min Scan# 1947  
 Delta R.T. -0.00 min  
 Lab File: VN063205.D  
 Acq: 2 Sep 2020 19:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.7  | 19.3  | 28.9  |



Abundance Ion 78.00 (77.70 to 78.70): V  
 Ion 77.00 (76.70 to 77.70): V





#50

Toluene-d8

Concen: 49.359 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063205.D

Acq: 2 Sep 2020 19:28

Instrument :

MSVOA\_N

ClientSampleId :

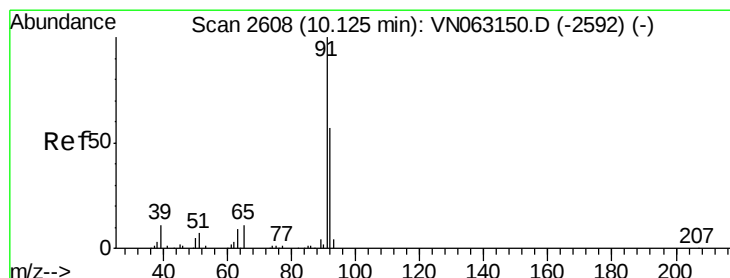
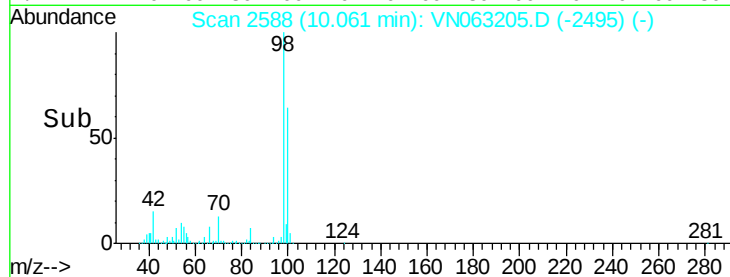
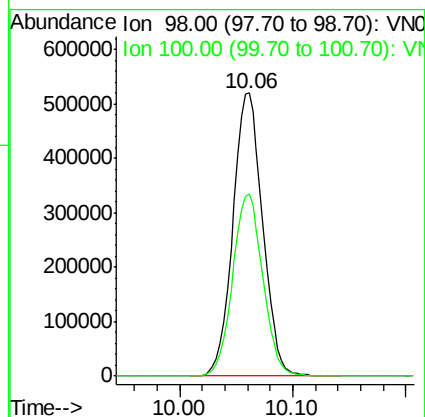
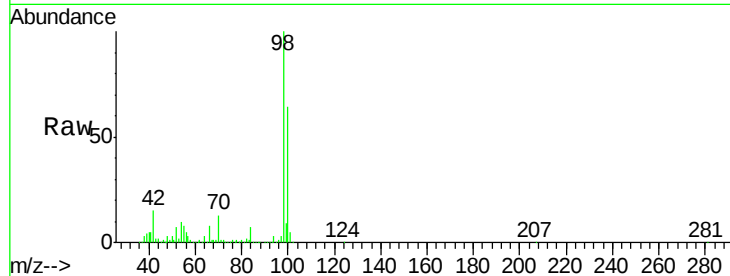
08-09-12

Tot Ion: 98 Resp: 951162

Ion Ratio Lower Upper

98 100

100 65.1 52.0 78.0



#52

Toluene

Concen: 1.163 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063205.D

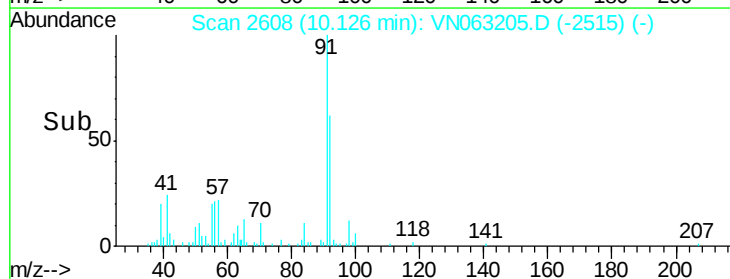
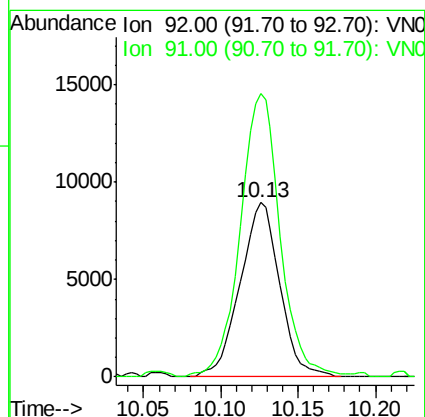
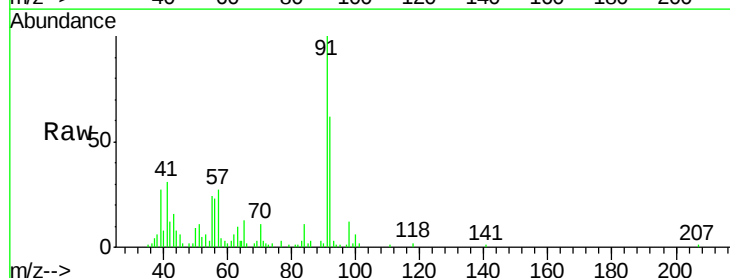
Acq: 2 Sep 2020 19:28

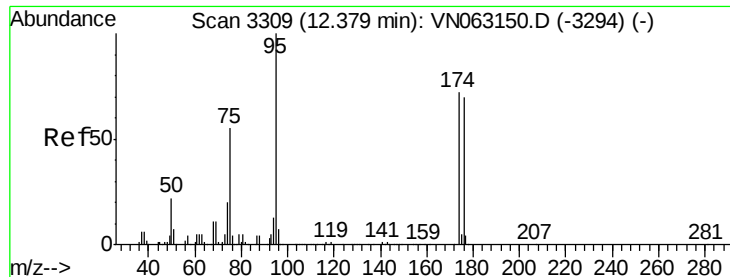
Tgt Ion: 92 Resp: 15975

Ion Ratio Lower Upper

92 100

91 163.4 141.2 211.8





#62

4-Bromofluorobenzene

Concen: 54.976 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063205.D

Acq: 2 Sep 2020 19:28

Instrument :

MSVOA\_N

ClientSampleId :

08-09-12

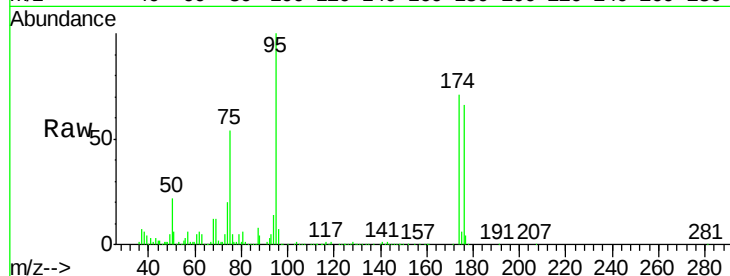
Tot Ion: 95 Resp: 370582

Ion Ratio Lower Upper

95 100

174 73.5 0.0 143.8

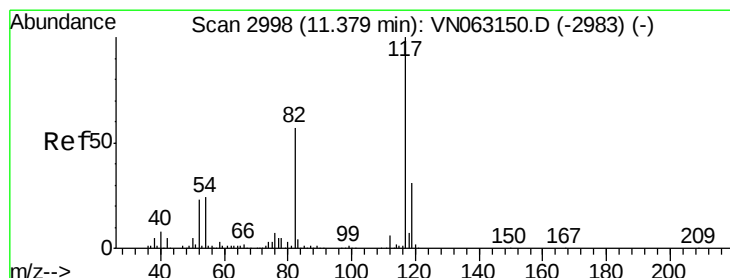
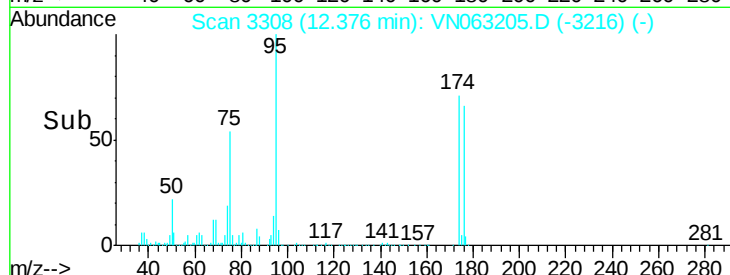
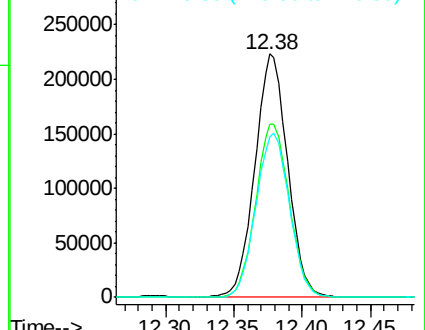
176 69.4 0.0 138.4



Abundance Ion 94.90 (94.60 to 95.60): VN063205.D (-3216) (-)

Ion 173.80 (173.50 to 174.50): VN063205.D (-3216) (-)

Ion 175.80 (175.50 to 176.50): VN063205.D (-3216) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063205.D

Acq: 2 Sep 2020 19:28

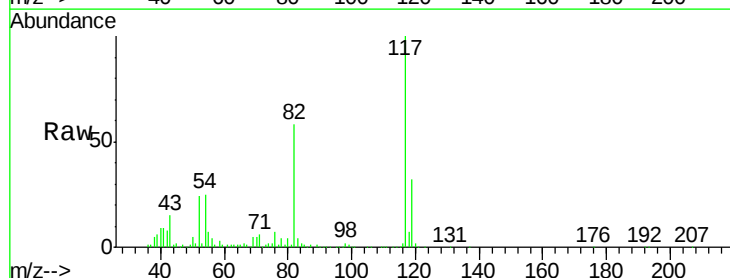
Tgt Ion: 117 Resp: 805802

Ion Ratio Lower Upper

117 100

82 57.5 45.4 68.0

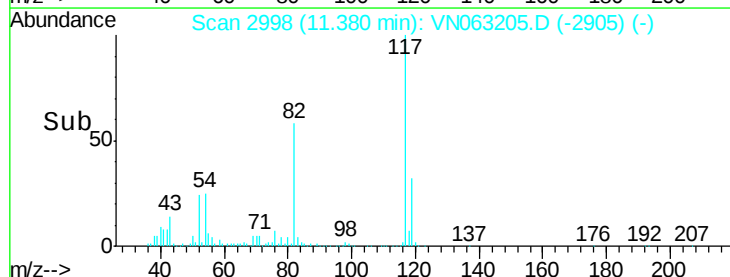
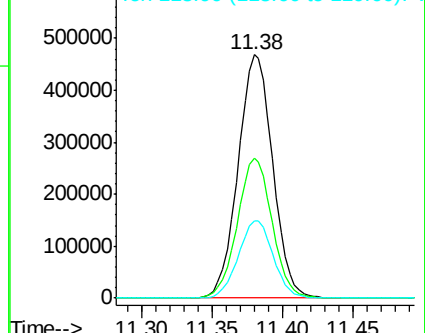
119 31.9 24.6 37.0

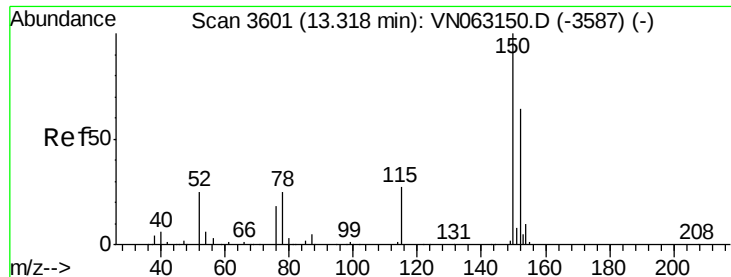


Abundance Ion 116.90 (116.60 to 117.60): VN063205.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN063205.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN063205.D (-2905) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063205.D

Acq: 2 Sep 2020 19:28

Instrument :

MSVOA\_N

ClientSampleId :

08-09-12

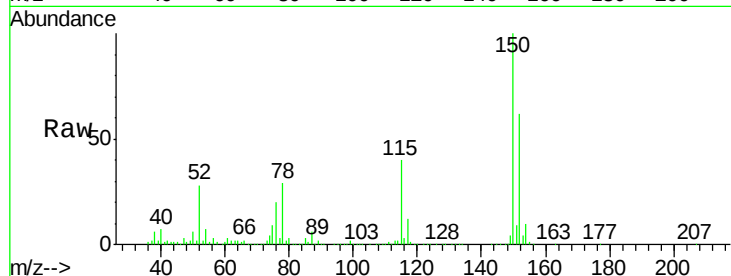
Tot Ion:152 Resp: 322010

Ion Ratio Lower Upper

152 100

115 63.3 32.0 96.2

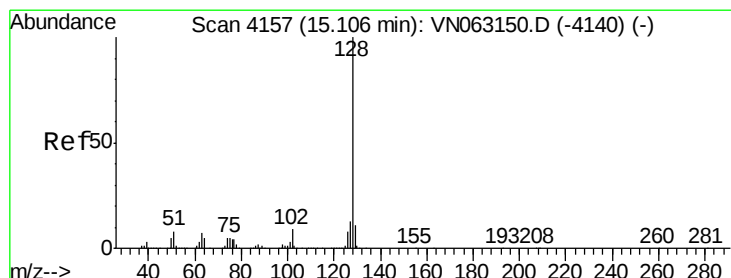
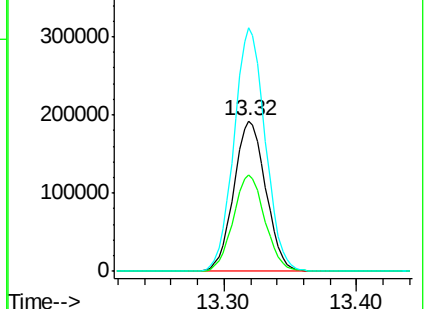
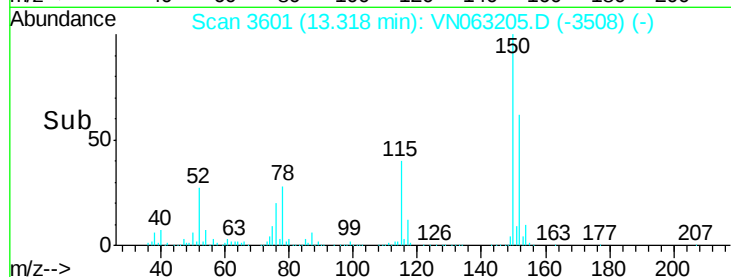
150 158.3 0.0 353.0



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



#95

Naphthalene

Concen: 7.432 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN063205.D

Acq: 2 Sep 2020 19:28

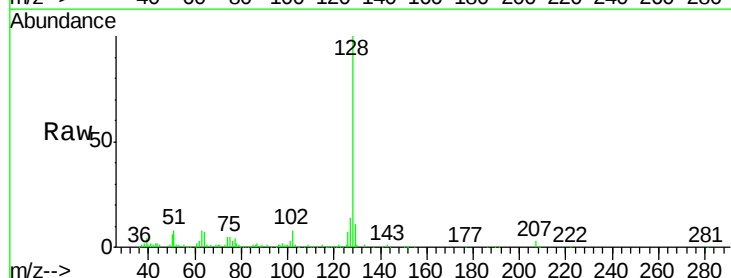
Tgt Ion:128 Resp: 137941

Ion Ratio Lower Upper

128 100

127 13.3 10.5 15.7

129 11.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

