

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY031220\  
 Data File : VY001960.D  
 Acq On : 12 Mar 2020 17:34  
 Operator : SY/MD  
 Sample : L1913-01  
 Misc : 7.10G/5ML/MSVOA Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MK-031220-0-1-GRAB-B1

Quant Time: Mar 13 07:00:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 04:05:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 174297   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 328623   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 294881   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 118347   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 106737   | 57.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.72% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 98124    | 54.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.36% |          |
| 50) Toluene-d8              | 10.19 | 98   | 396578   | 52.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.82% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 133134   | 50.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.20% |          |

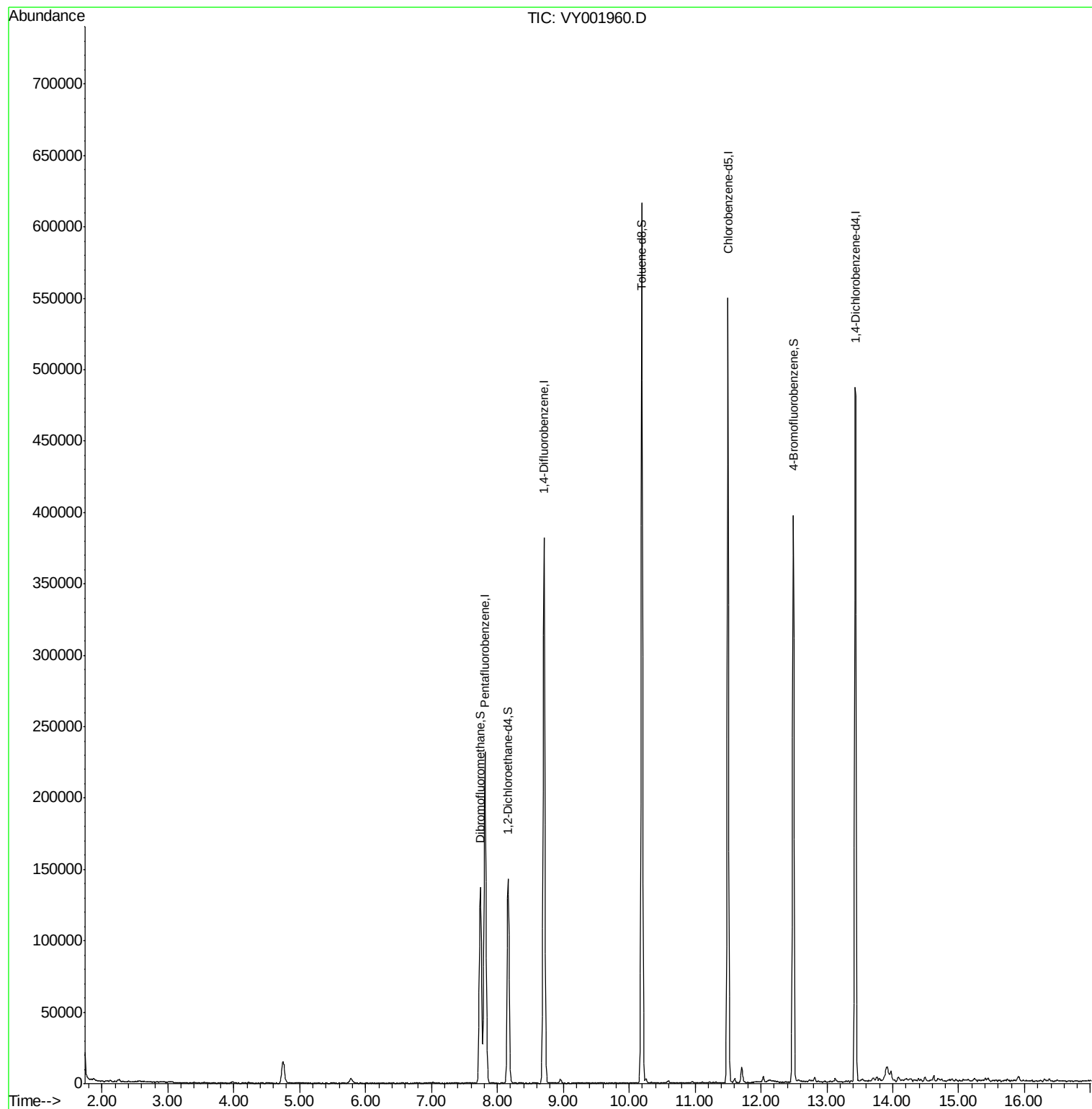
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

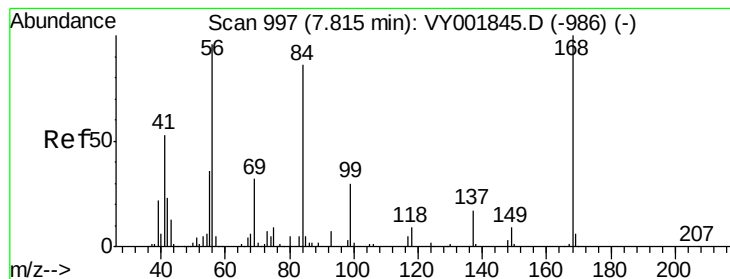
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.00 min

Lab File: VY001960.D

Acq: 12 Mar 2020 17:34

Instrument :

MSVOA\_Y

ClientSampleId :

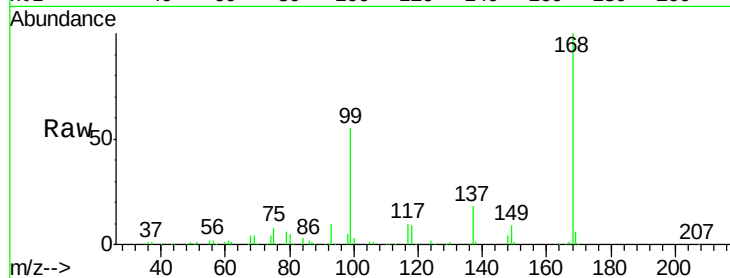
MK-031220-0-1-GRAB-B1

Tot Ion:168 Resp: 174297

Ion Ratio Lower Upper

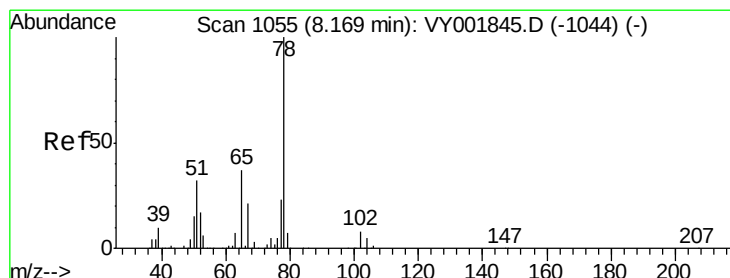
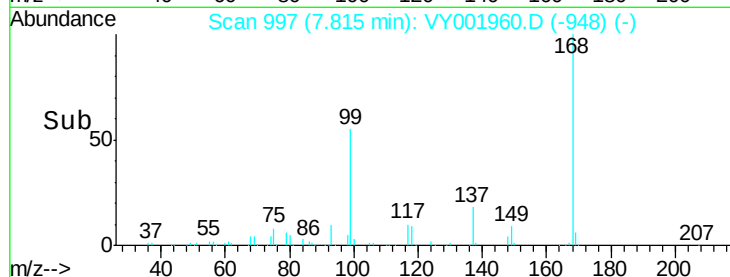
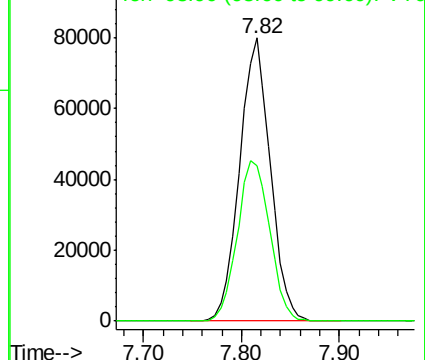
168 100

99 54.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001960.D (-948) (-)

Ion 98.90 (98.60 to 99.60): VY001960.D (-948) (-)



#33

1,2-Dichloroethane-d4

Concen: 57.363 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VY001960.D

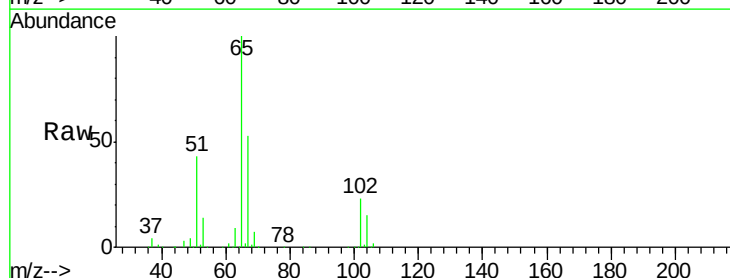
Acq: 12 Mar 2020 17:34

Tgt Ion: 65 Resp: 106737

Ion Ratio Lower Upper

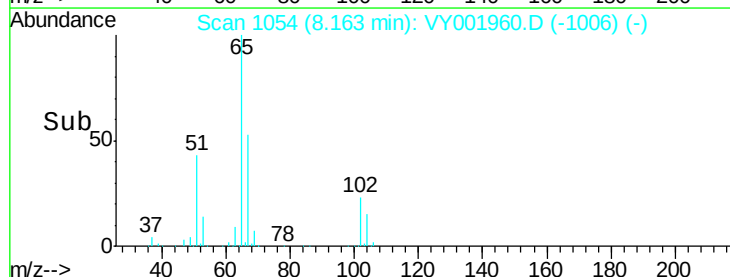
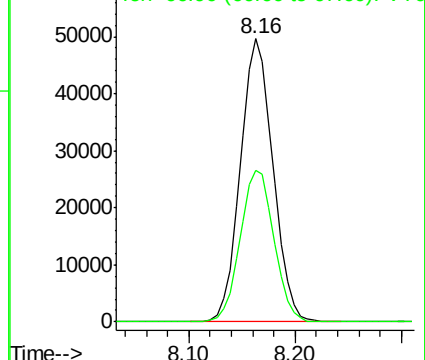
65 100

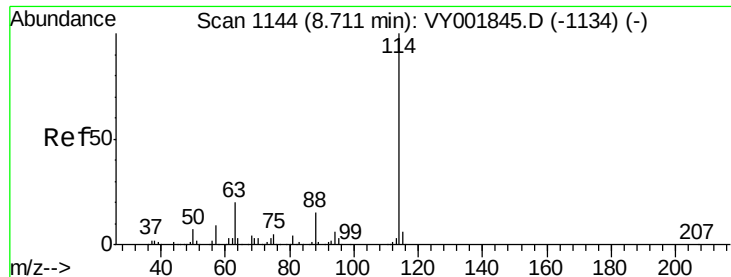
67 55.5 0.0 110.8



Abundance Ion 64.90 (64.60 to 65.60): VY001960.D (-1006) (-)

Ion 66.90 (66.60 to 67.60): VY001960.D (-1006) (-)

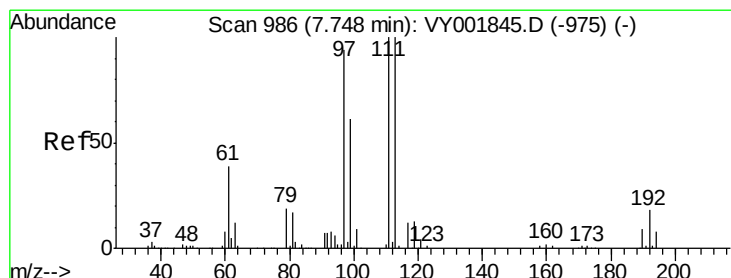
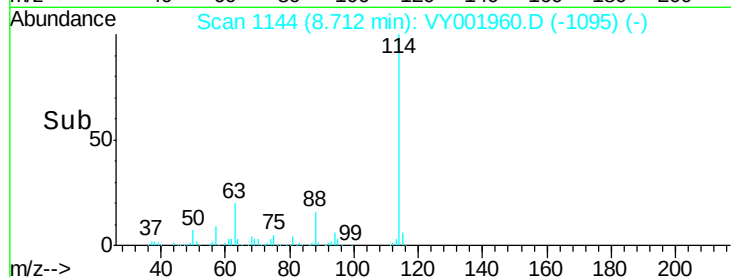
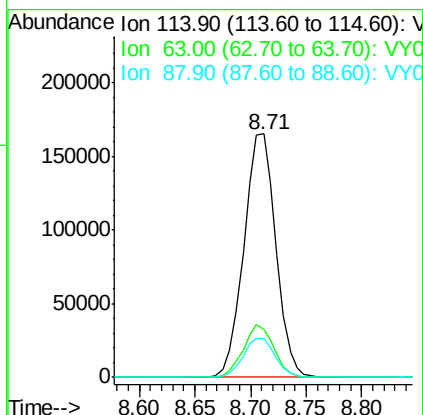
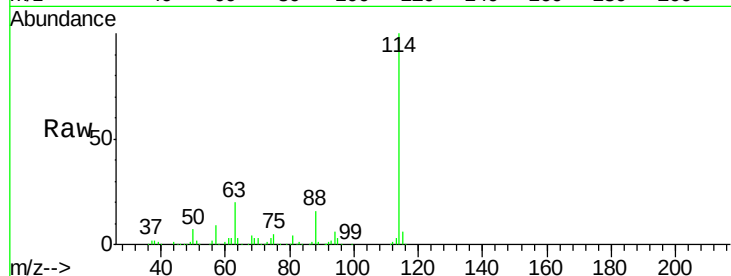




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1144  
 Delta R.T. 0.00 min  
 Lab File: VY001960.D  
 Acq: 12 Mar 2020 17:34

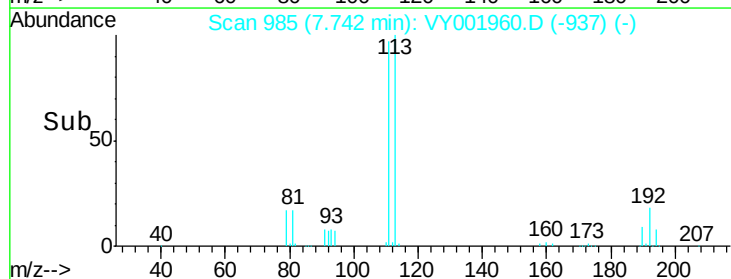
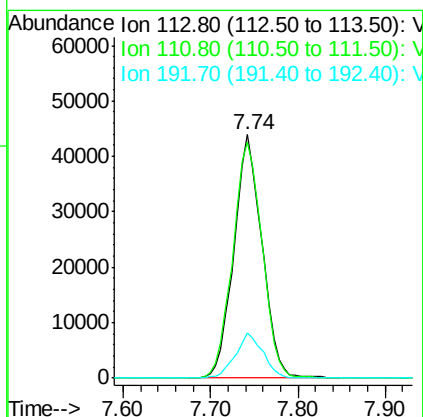
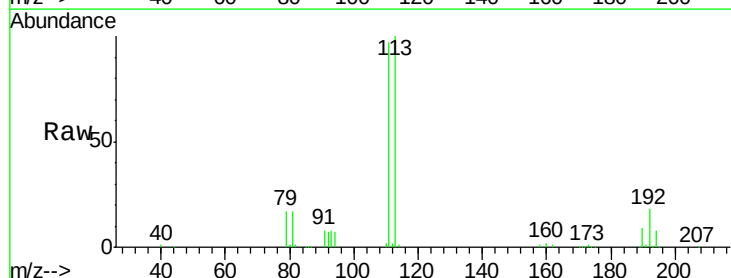
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 MK-031220-0-1-GRAB-B1

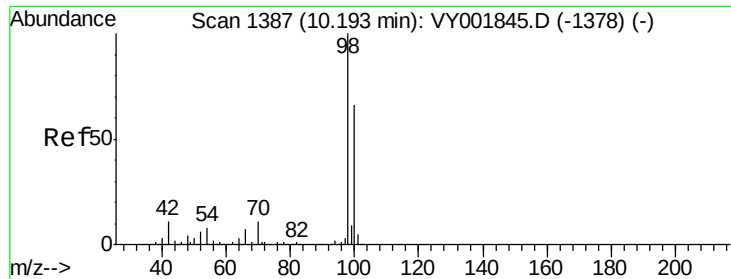
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.9  | 0.0   | 39.4  |
| 88      | 16.2  | 0.0   | 30.4  |



#35  
 Dibromofluoromethane  
 Concen: 54.683 ug/l  
 RT: 7.74 min Scan# 985  
 Delta R.T. -0.01 min  
 Lab File: VY001960.D  
 Acq: 12 Mar 2020 17:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.4 | 81.8  | 122.8 |
| 192     | 18.1  | 14.2  | 21.2  |





#50

Toluene-d8

Concen: 52.410 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VY001960.D

Acq: 12 Mar 2020 17:34

Instrument :

MSVOA\_Y

ClientSampleId :

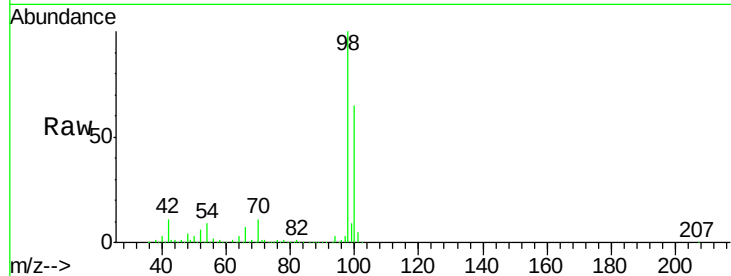
MK-031220-0-1-GRAB-B1

Tot Ion: 98 Resp: 396578

Ion Ratio Lower Upper

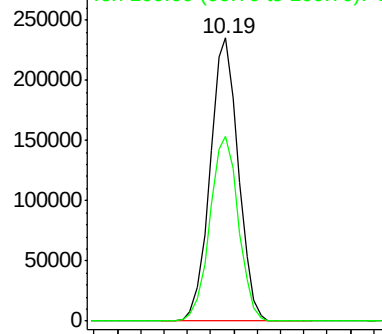
98 100

100 66.0 53.0 79.4

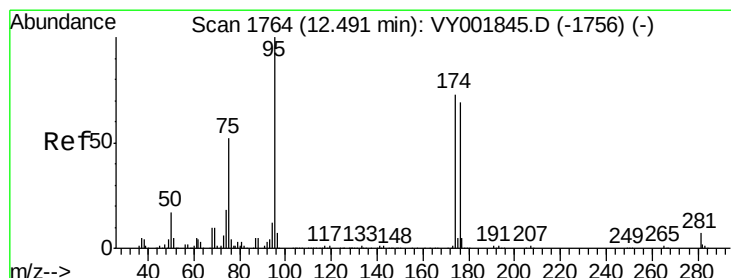
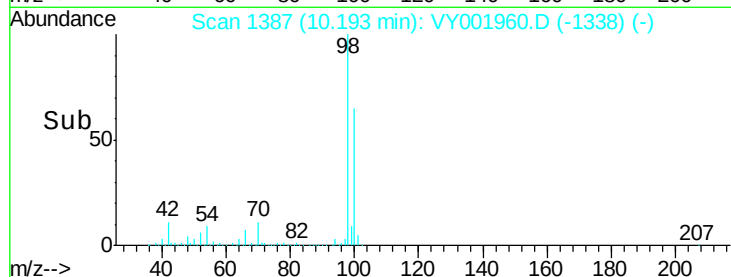


Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY



Time-->



#62

4-Bromofluorobenzene

Concen: 50.601 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VY001960.D

Acq: 12 Mar 2020 17:34

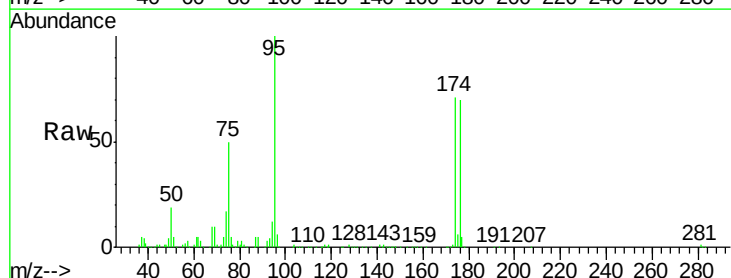
Tgt Ion: 95 Resp: 133134

Ion Ratio Lower Upper

95 100

174 71.2 0.0 145.0

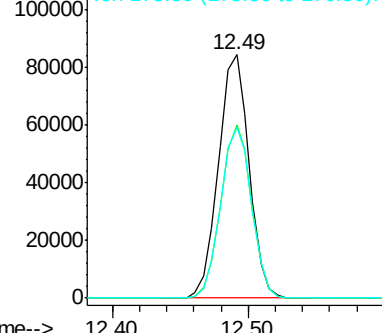
176 70.7 0.0 137.4



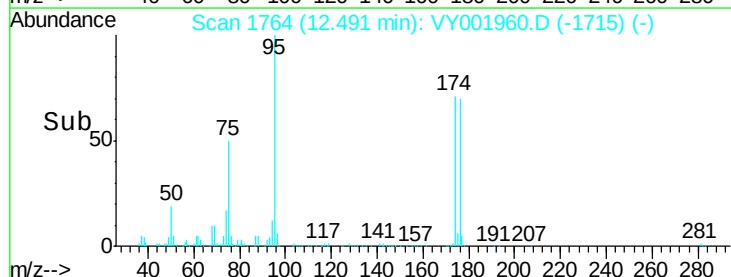
Abundance Ion 94.90 (94.60 to 95.60): VY0

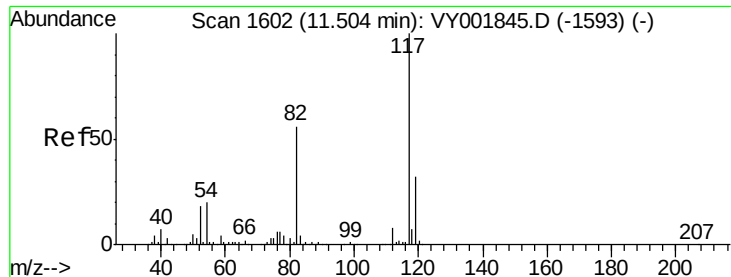
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

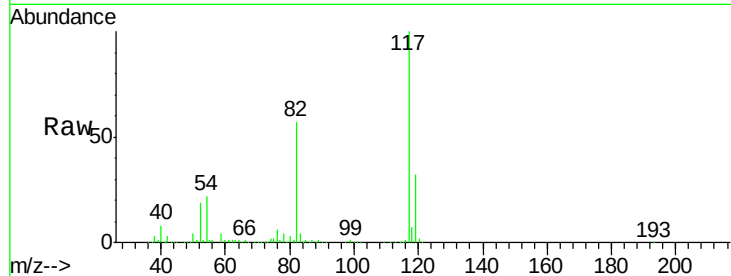




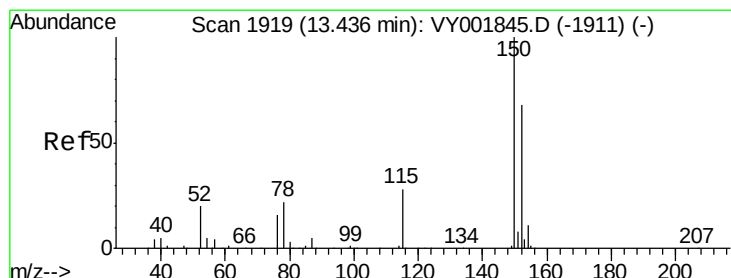
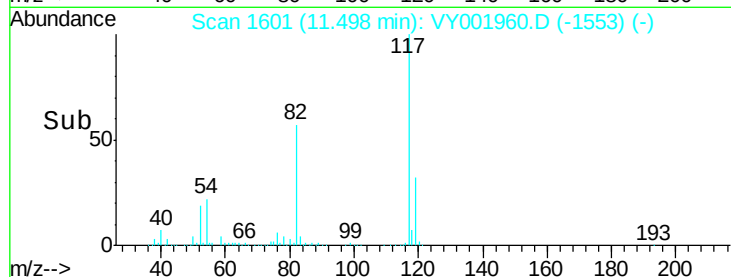
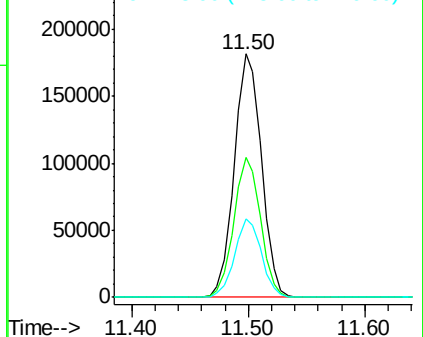
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: VY001960.D  
Acq: 12 Mar 2020 17:34

Instrument :  
MSVOA\_Y  
ClientSampleId :  
MK-031220-0-1-GRAB-B1

Tot Ion:117 Resp: 294881  
Ion Ratio Lower Upper  
117 100  
82 57.4 44.5 66.7  
119 32.3 25.7 38.5

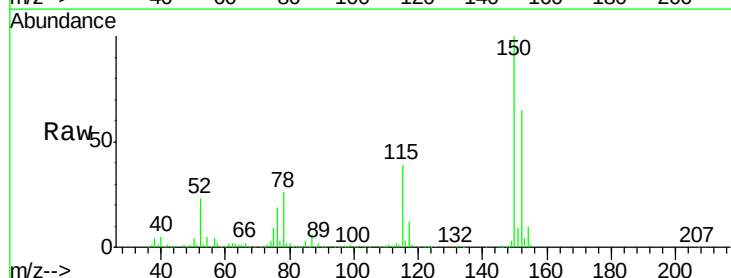


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. 0.00 min  
Lab File: VY001960.D  
Acq: 12 Mar 2020 17:34

Tgt Ion:152 Resp: 118347  
Ion Ratio Lower Upper  
152 100  
115 62.7 29.9 89.7  
150 160.6 0.0 340.6



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

