

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY040320\  
 Data File : VY002215.D  
 Acq On : 03 Apr 2020 13:21  
 Operator : SY/MD  
 Sample : L2132-11  
 Misc : 4.57G/5ML/MSVOA Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CLEAN-GRAVEL

Quant Time: Apr 04 00:58:14 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y032620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 07:11:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 125140   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 247021   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 234582   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 104541   | 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   | 80007    | 57.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 115.66% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 72823    | 52.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 105.22% |          |
| 50) Toluene-d8              | 10.19 | 98   | 303797   | 52.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 105.68% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 105493   | 52.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 104.92% |          |

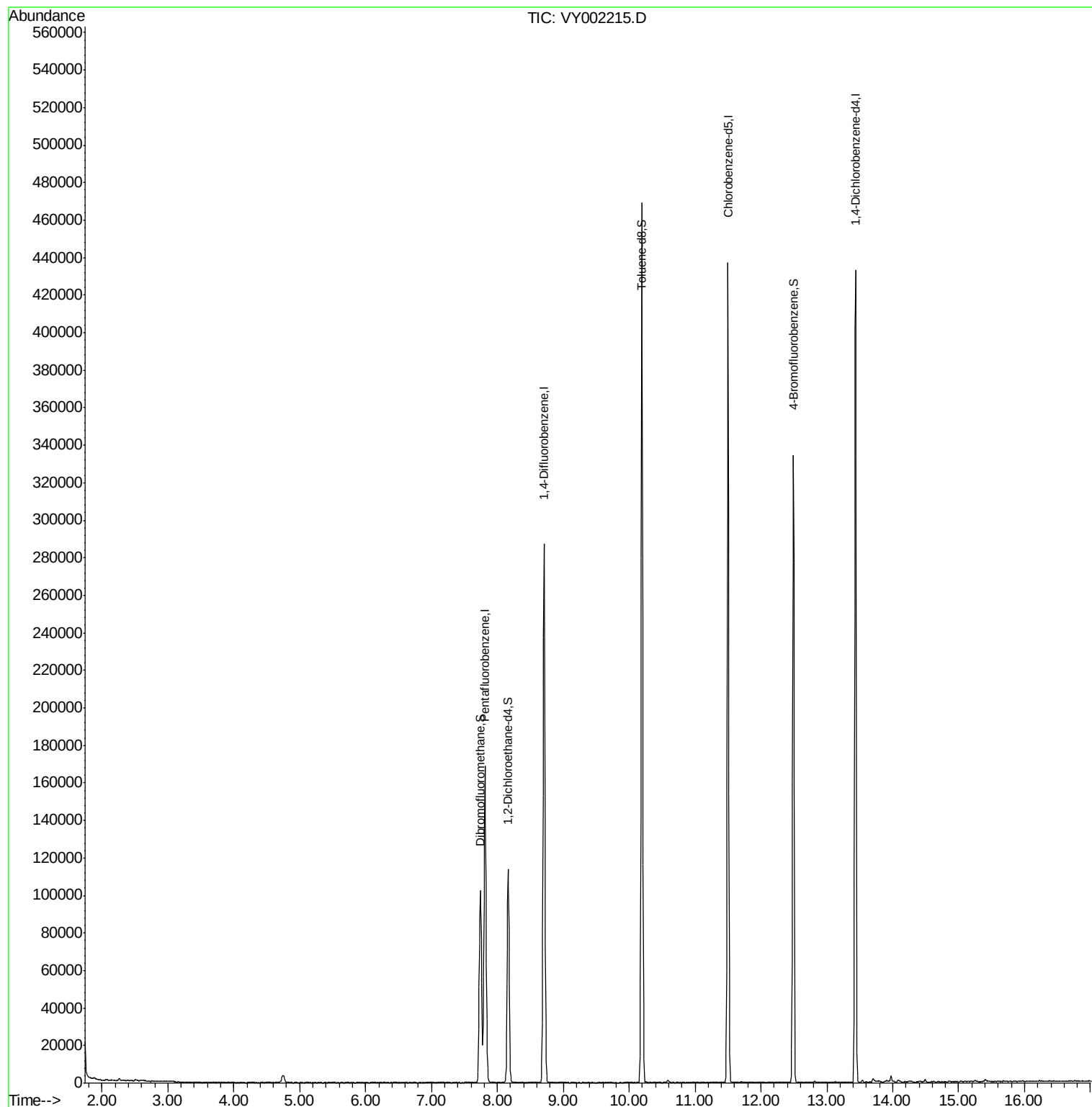
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

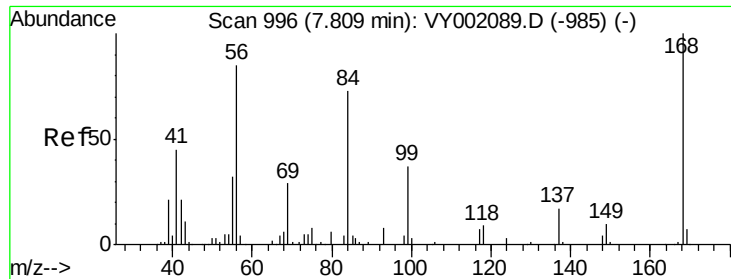
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY002215.D

Acq: 03 Apr 2020 13:21

Instrument :

MSVOA\_Y

ClientSampleId :

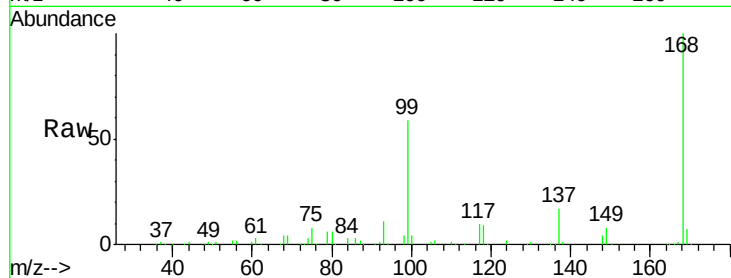
CLEAN-GRAVEL

Tot Ion:168 Resp: 125140

Ion Ratio Lower Upper

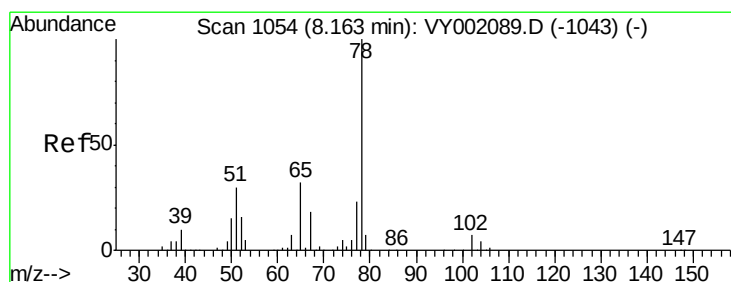
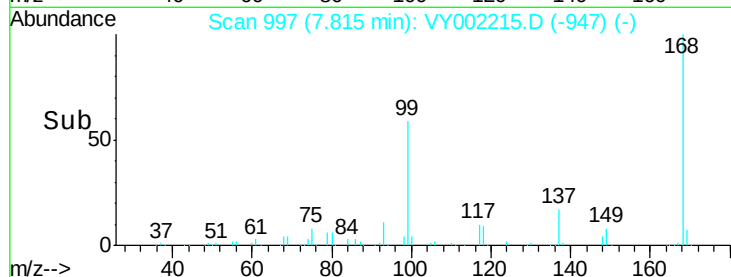
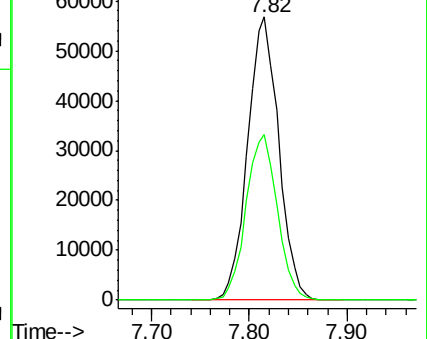
168 100

99 58.7 47.6 71.4



Abundance Ion 167.90 (167.60 to 168.60): VY002215.D (-947) (-)

Ion 98.90 (98.60 to 99.60): VY002215.D (-947) (-)



#33

1,2-Dichloroethane-d4

Concen: 57.834 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VY002215.D

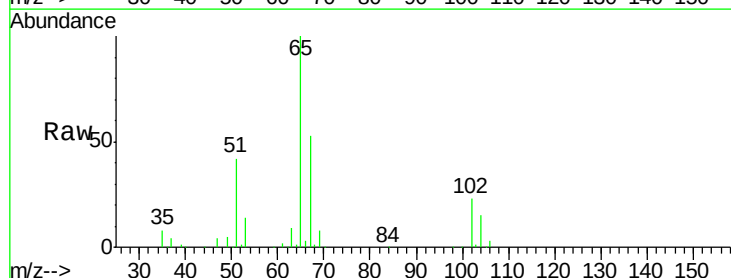
Acq: 03 Apr 2020 13:21

Tgt Ion: 65 Resp: 80007

Ion Ratio Lower Upper

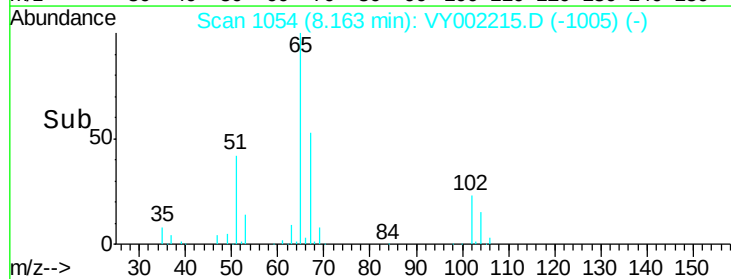
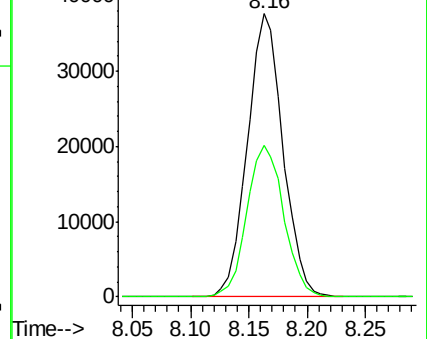
65 100

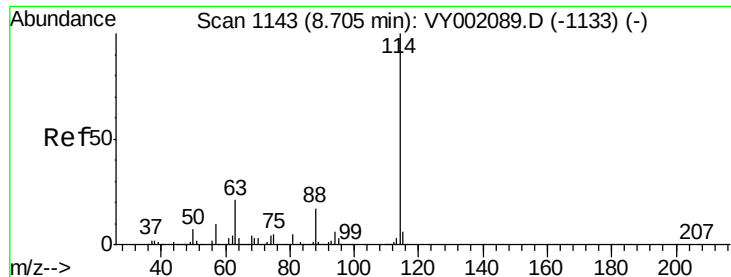
67 55.5 0.0 112.8



Abundance Ion 64.90 (64.60 to 65.60): VY002215.D (-1005) (-)

Ion 66.90 (66.60 to 67.60): VY002215.D (-1005) (-)

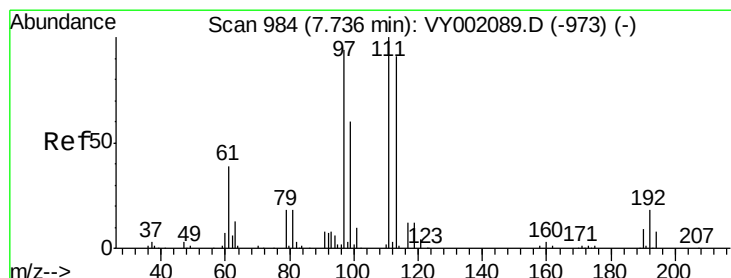
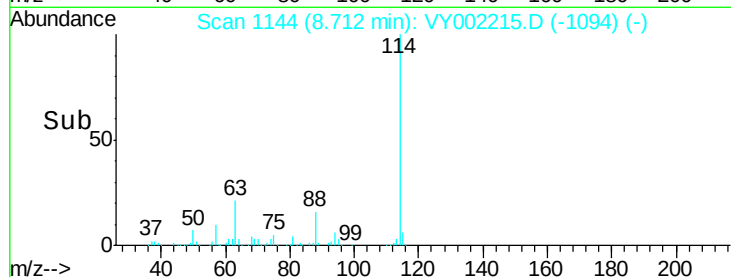
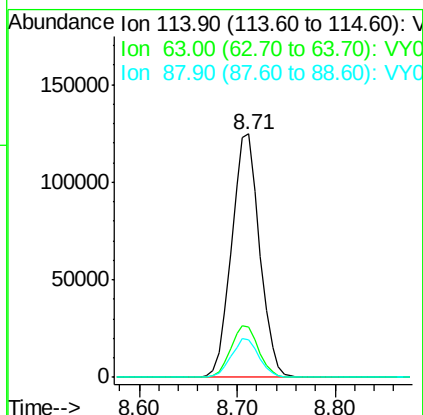
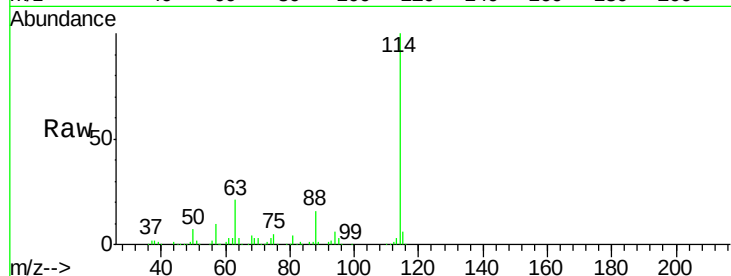




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1144  
 Delta R.T. 0.01 min  
 Lab File: VY002215.D  
 Acq: 03 Apr 2020 13:21

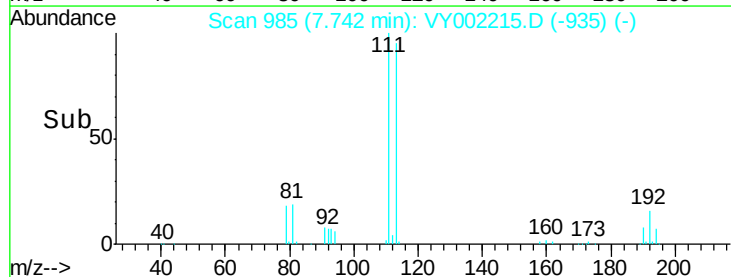
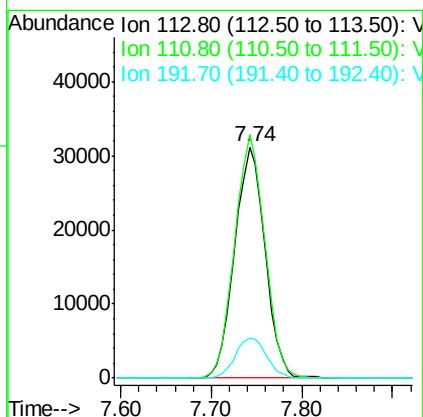
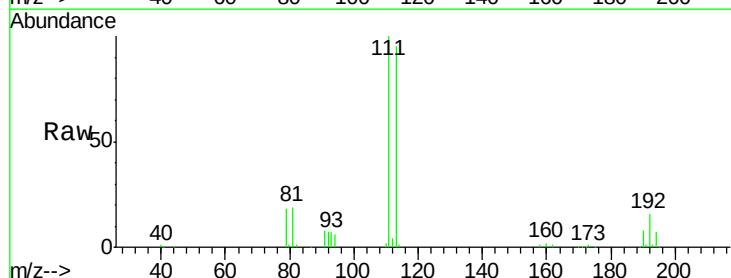
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 CLEAN-GRAVEL

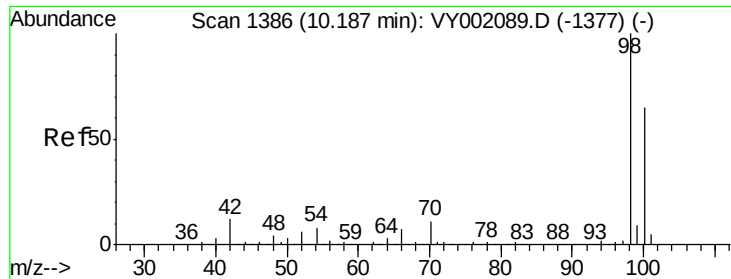
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.5  | 0.0   | 41.4  |
| 88      | 15.6  | 0.0   | 33.0  |



#35  
 Dibromofluoromethane  
 Concen: 52.614 ug/l  
 RT: 7.74 min Scan# 985  
 Delta R.T. 0.01 min  
 Lab File: VY002215.D  
 Acq: 03 Apr 2020 13:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.3 | 84.4  | 126.6 |
| 192     | 17.8  | 14.6  | 21.8  |





#50

Toluene-d8

Concen: 52.835 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY002215.D

Acq: 03 Apr 2020 13:21

Instrument :

MSVOA\_Y

ClientSampleId :

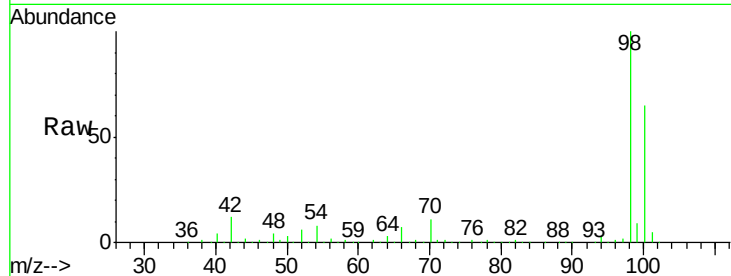
CLEAN-GRAVEL

Tot Ion: 98 Resp: 303797

Ion Ratio Lower Upper

98 100

100 65.4 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

10.19

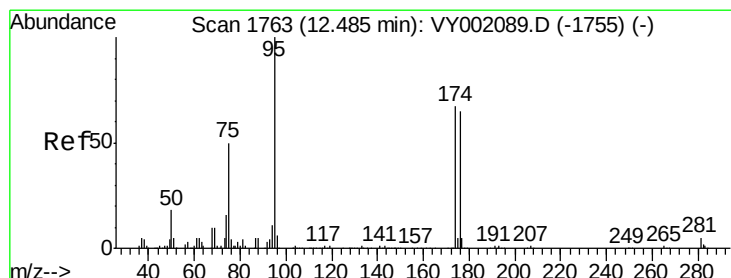
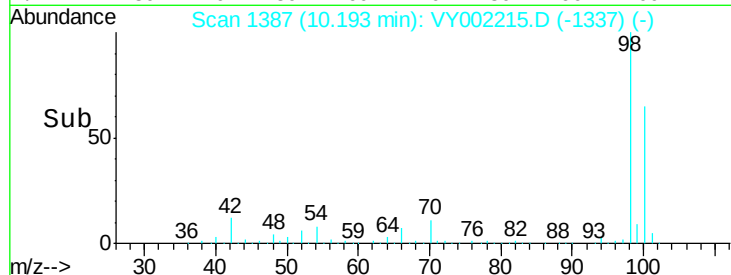
150000

100000

50000

0

Time--> 10.10 10.20 10.30



#62

4-Bromofluorobenzene

Concen: 52.460 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VY002215.D

Acq: 03 Apr 2020 13:21

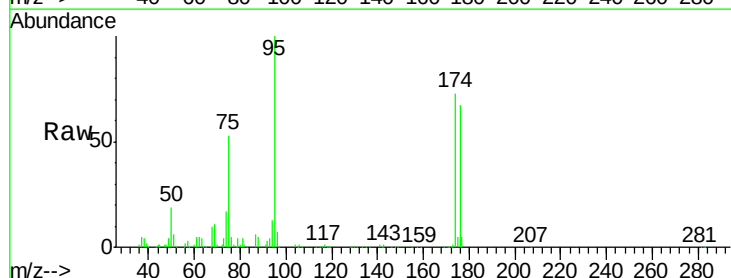
Tgt Ion: 95 Resp: 105493

Ion Ratio Lower Upper

95 100

174 73.1 0.0 143.4

176 70.0 0.0 137.0



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

12.49

80000

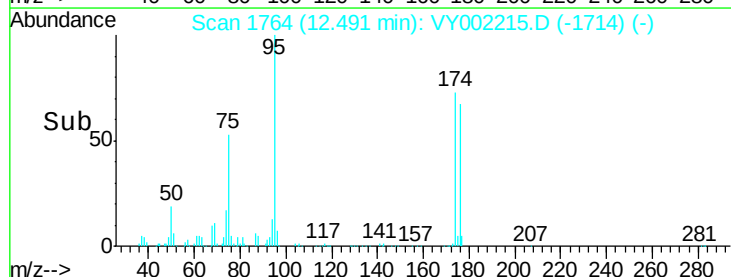
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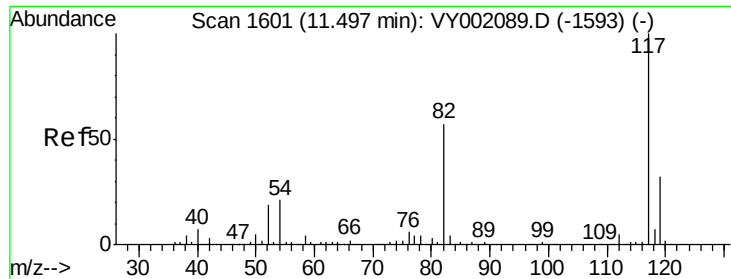
40000

20000

0

Time--> 12.40 12.45 12.50 12.55

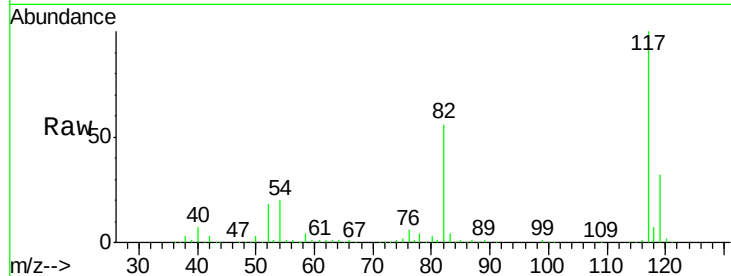




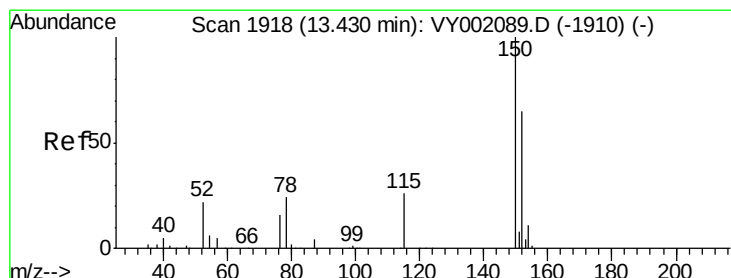
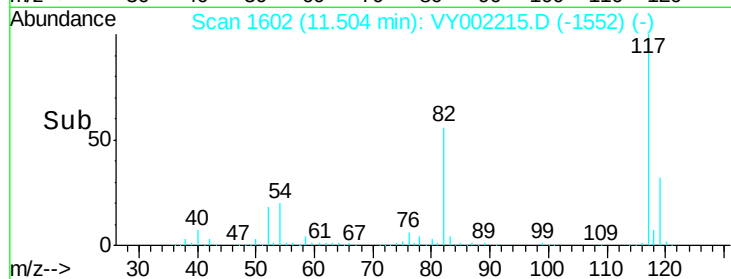
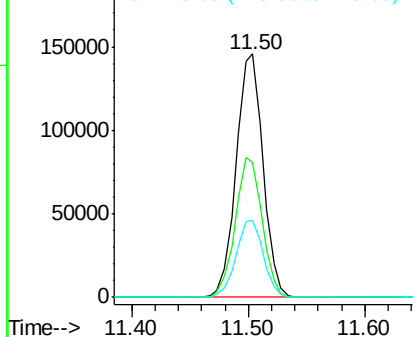
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1602  
Delta R.T. 0.01 min  
Lab File: VY002215.D  
Acq: 03 Apr 2020 13:21

Instrument :  
MSVOA\_Y  
ClientSampleId :  
CLEAN-GRAVEL

Tot Ion:117 Resp: 234582  
Ion Ratio Lower Upper  
117 100  
82 55.6 45.4 68.2  
119 31.7 25.3 37.9

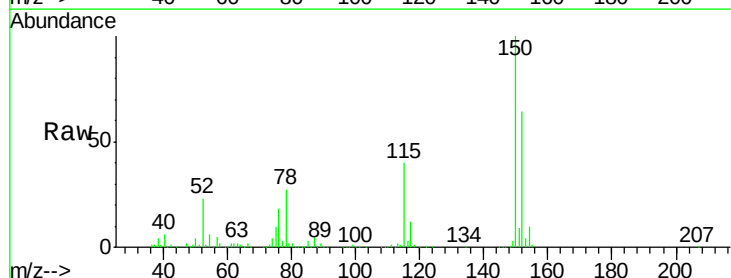


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. 0.01 min  
Lab File: VY002215.D  
Acq: 03 Apr 2020 13:21

Tgt Ion:152 Resp: 104541  
Ion Ratio Lower Upper  
152 100  
115 61.9 31.2 93.6  
150 156.5 0.0 354.8



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

