

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY092619\  
 Data File : VY000157.D  
 Acq On : 26 Sep 2019 17:02  
 Operator : SY/MD  
 Sample : K5038-12  
 Misc : 7.45g/5.00ml/MSVOA Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TS-3

Quant Time: Sep 26 18:43:25 2019  
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y092619S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 26 14:30:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 67222    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 115840   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 90104    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 32779    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.14   | 65  | 28852    | 49.01 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.02%  |      |
| 35) Dibromofluoromethane    | 7.72   | 113 | 31300    | 51.60 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 103.20% |      |
| 50) Toluene-d8              | 10.18  | 98  | 128216   | 49.95 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.90%  |      |
| 62) 4-Bromofluorobenzene    | 12.48  | 95  | 34772    | 37.16 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 74.32%  |      |

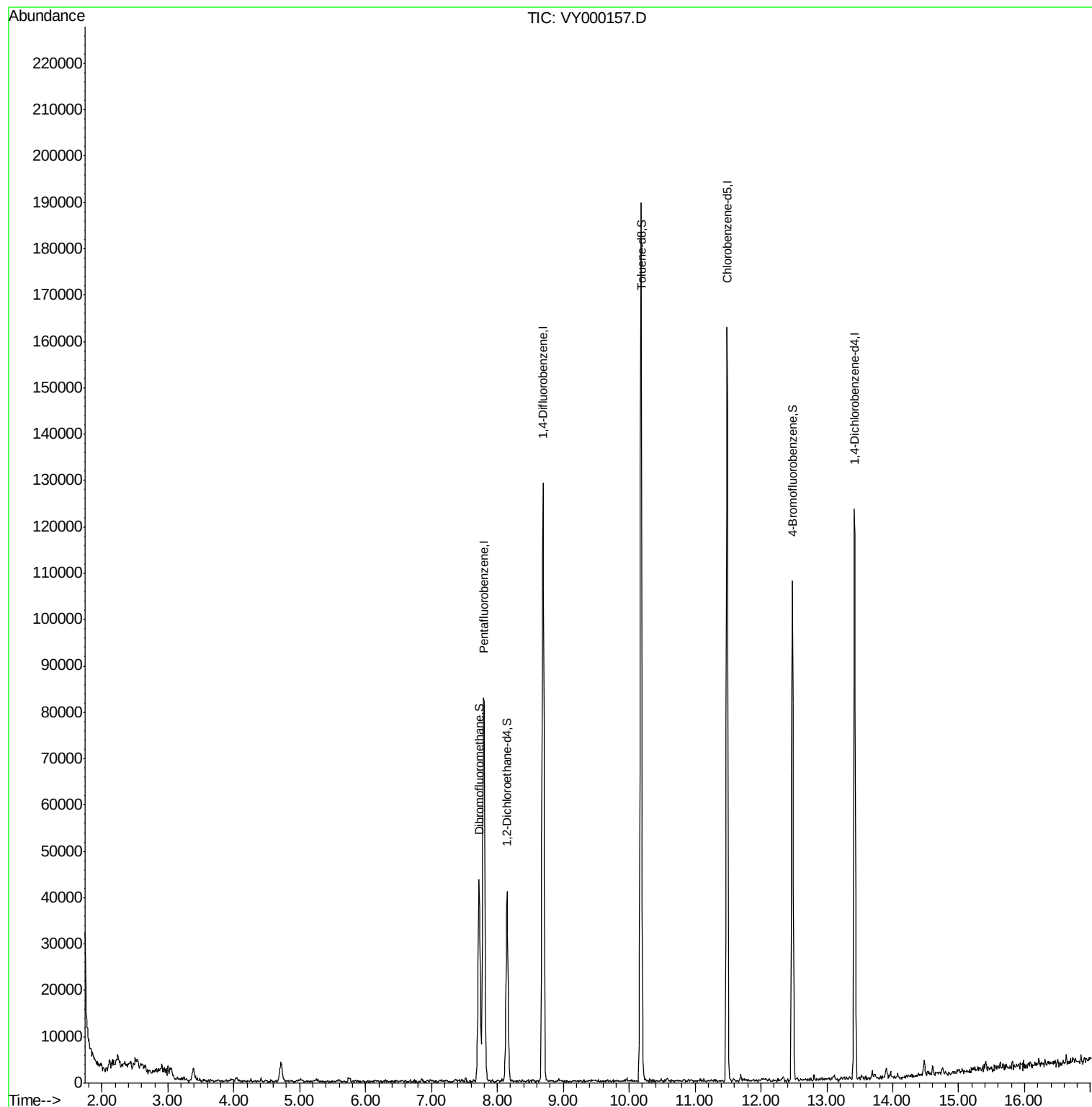
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

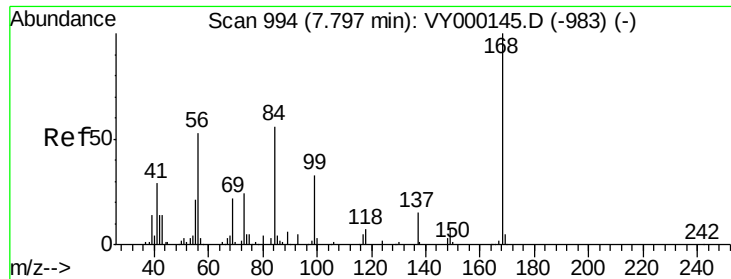
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY000157.D

Acq: 26 Sep 2019 17:02

Instrument :

MSVOA\_Y

ClientSampled :

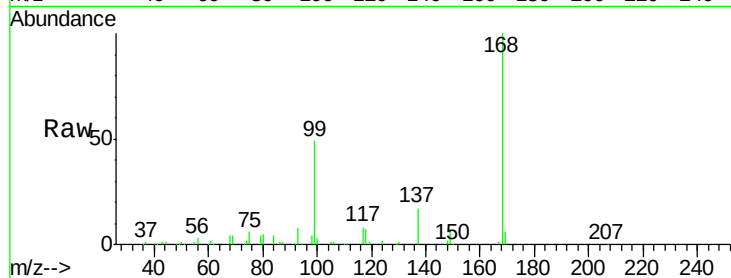
TS-3

Tot Ion:168 Resp: 67222

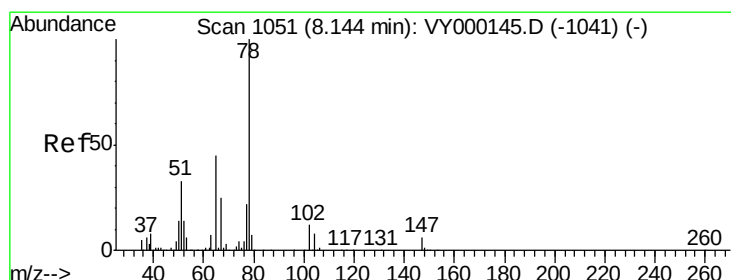
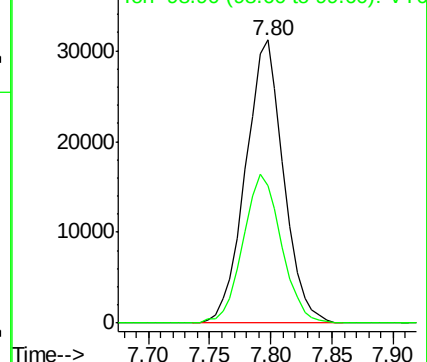
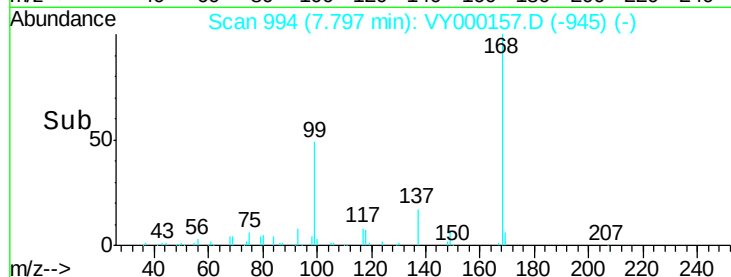
Ion Ratio Lower Upper

168 100

99 48.7 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): VY000157.D (-945) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.010 ug/l

RT: 8.14 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VY000157.D

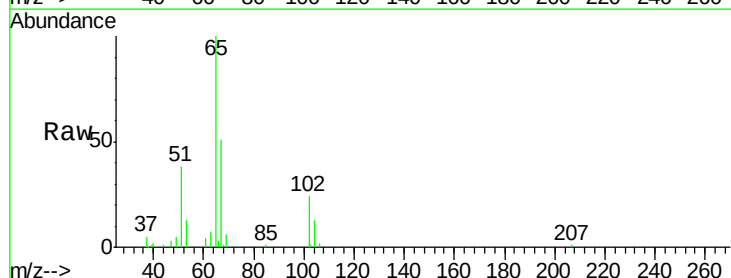
Acq: 26 Sep 2019 17:02

Tgt Ion: 65 Resp: 28852

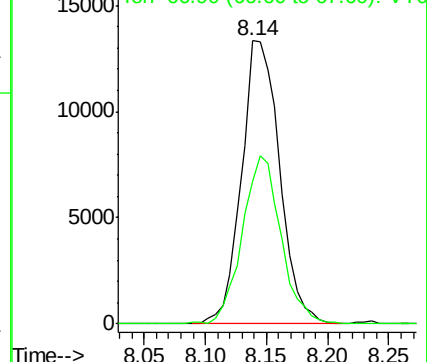
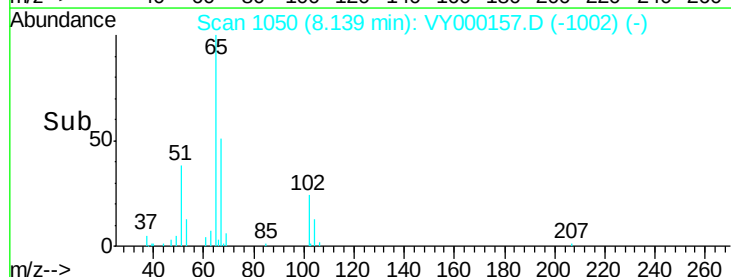
Ion Ratio Lower Upper

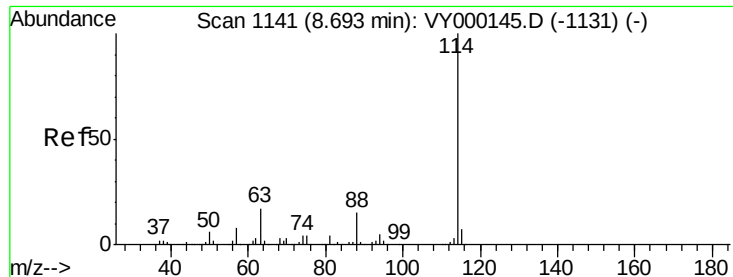
65 100

67 60.3 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VY000157.D (-1002) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VY000157.D

Acq: 26 Sep 2019 17:02

Instrument :

MSVOA\_Y

ClientSampleId :

TS-3

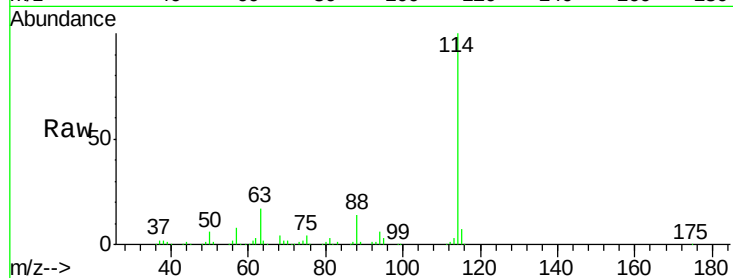
Tot Ion:114 Resp: 115840

Ion Ratio Lower Upper

114 100

63 17.1 0.0 34.6

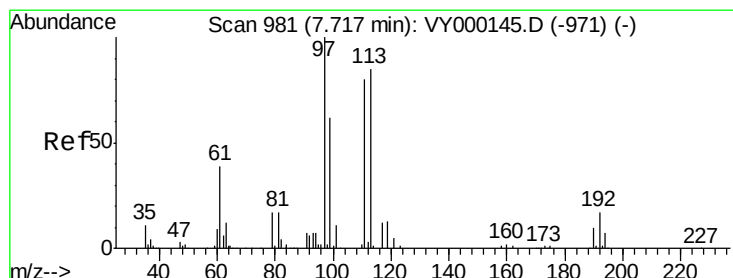
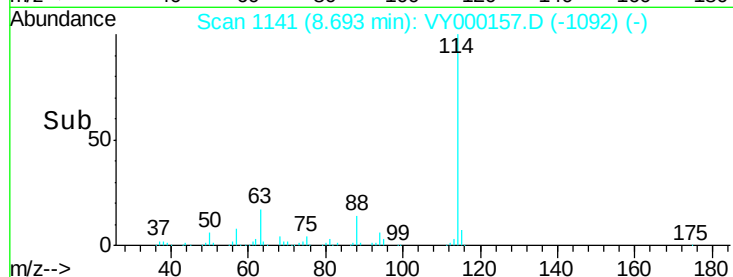
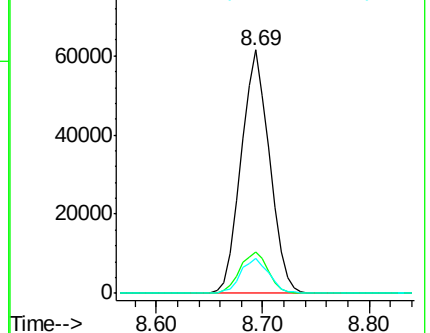
88 14.3 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 51.595 ug/l

RT: 7.72 min Scan# 982

Delta R.T. 0.01 min

Lab File: VY000157.D

Acq: 26 Sep 2019 17:02

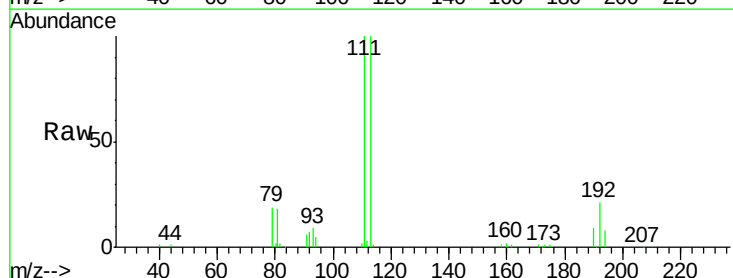
Tgt Ion:113 Resp: 31300

Ion Ratio Lower Upper

113 100

111 101.7 82.0 123.0

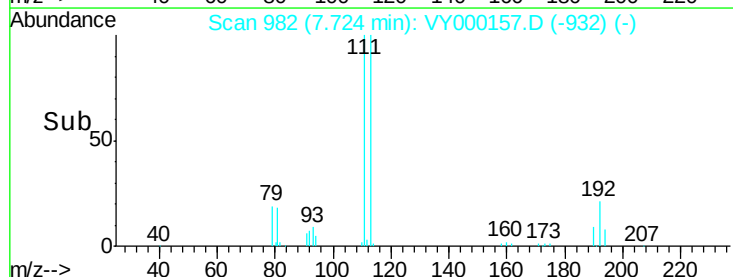
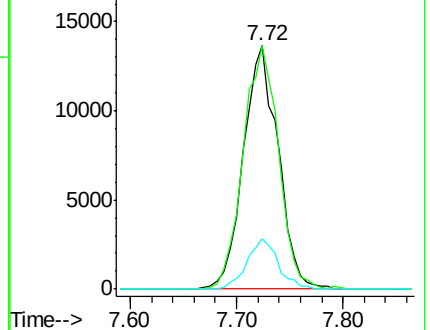
192 18.4 17.3 25.9

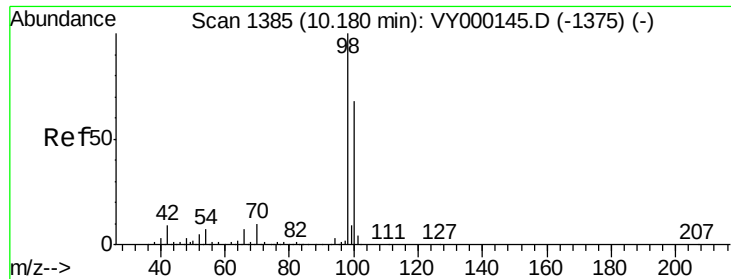


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 49.945 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY000157.D

Acq: 26 Sep 2019 17:02

Instrument :

MSVOA\_Y

ClientSampleId :

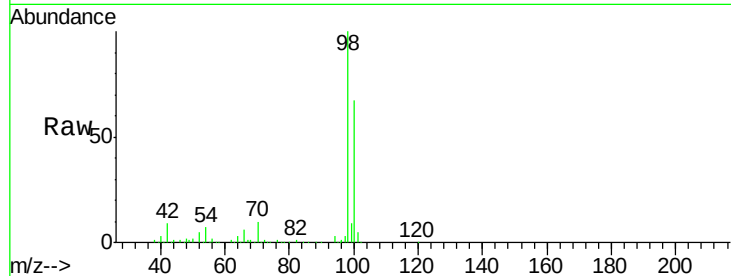
TS-3

Tot Ion: 98 Resp: 128216

Ion Ratio Lower Upper

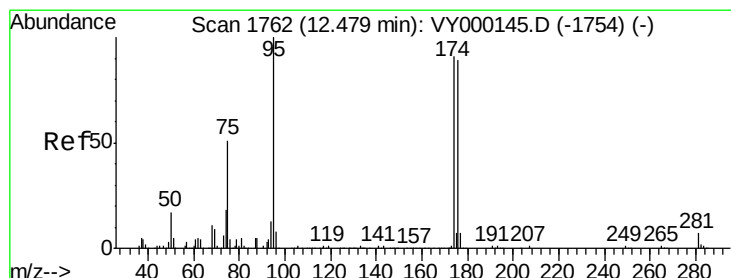
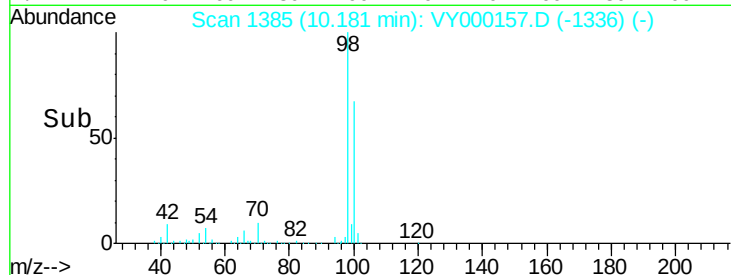
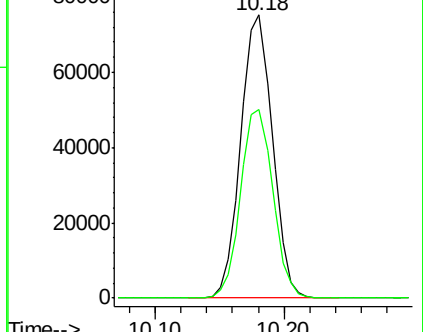
98 100

100 67.9 54.2 81.2



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY



#62

4-Bromofluorobenzene

Concen: 37.162 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY000157.D

Acq: 26 Sep 2019 17:02

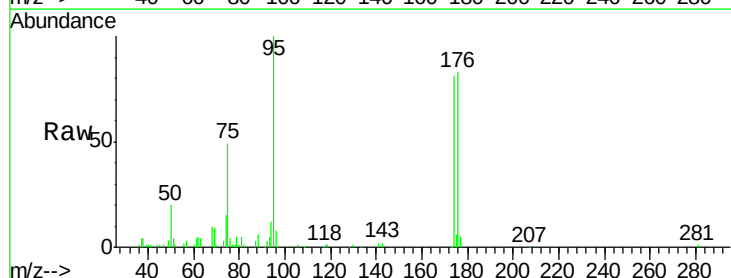
Tgt Ion: 95 Resp: 34772

Ion Ratio Lower Upper

95 100

174 81.6 0.0 180.6

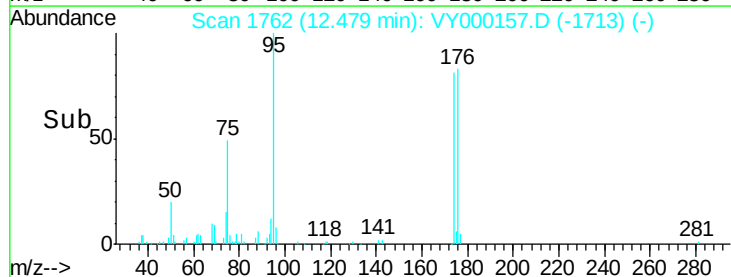
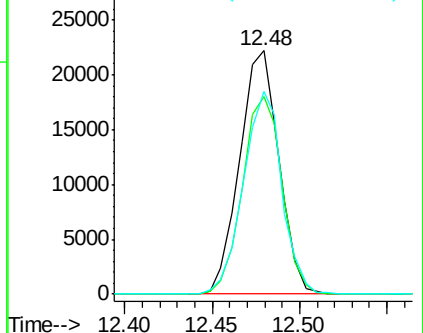
176 81.4 0.0 171.6

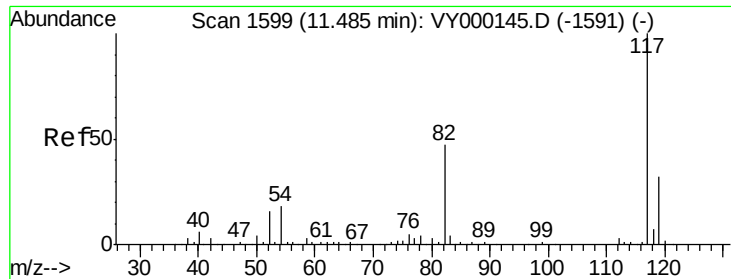


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

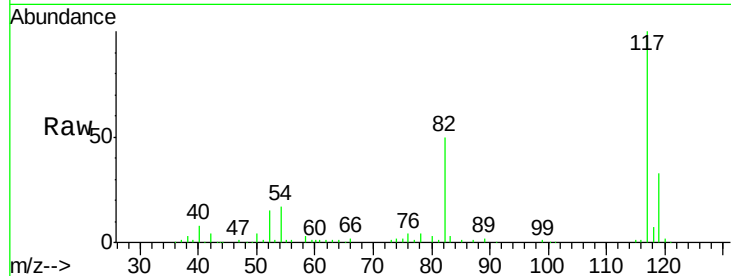




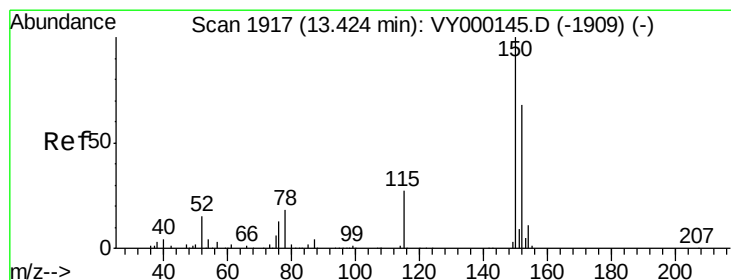
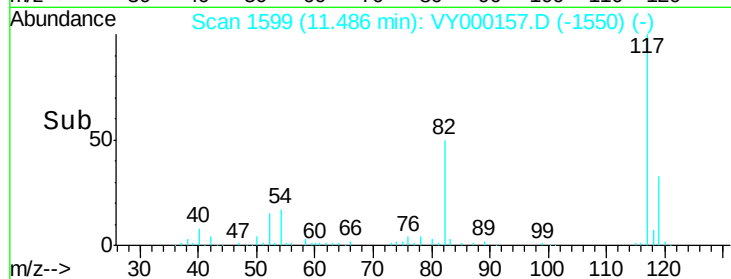
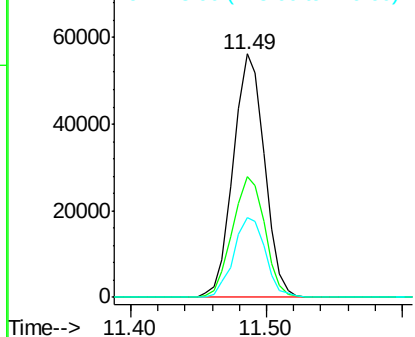
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1599  
Delta R.T. 0.00 min  
Lab File: VY000157.D  
Acq: 26 Sep 2019 17:02

Instrument :  
MSVOA\_Y  
ClientSampled :  
TS-3

Tot Ion:117 Resp: 90104  
Ion Ratio Lower Upper  
117 100  
82 49.7 37.7 56.5  
119 32.9 25.4 38.2

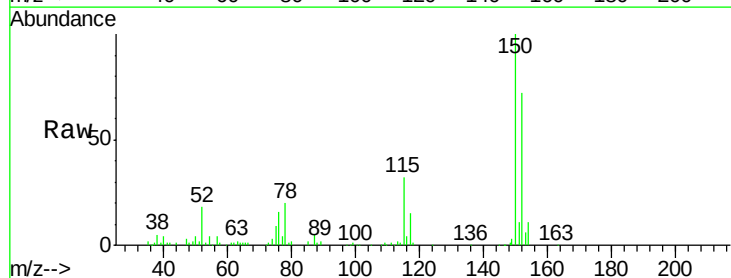


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VY000157.D  
Acq: 26 Sep 2019 17:02

Tgt Ion:152 Resp: 32779  
Ion Ratio Lower Upper  
152 100  
115 55.0 26.8 80.4  
150 147.4 0.0 347.8



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

