

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100918\  
 Data File : VD060149.D  
 Acq On : 9 Oct 2018 13:08  
 Operator : VA/AP  
 Sample : J5179-05RE  
 Misc : 4.98g/5ml/MSVOA D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 T1-GRAVELRE

Quant Time: Oct 09 15:10:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 06:56:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.38  | 168  | 1561695  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 7.42  | 114  | 2120000  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.26 | 117  | 1648943  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.36 | 152  | 793729   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.76  | 65   | 713061   | 60.24  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 120.48% |          |
| 35) Dibromofluoromethane    | 6.29  | 113  | 925231   | 57.47  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 114.94% |          |
| 50) Toluene-d8              | 9.43  | 98   | 2508512  | 54.64  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.28% |          |
| 62) 4-Bromofluorobenzene    | 12.41 | 95   | 879213   | 51.15  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 102.30% |          |

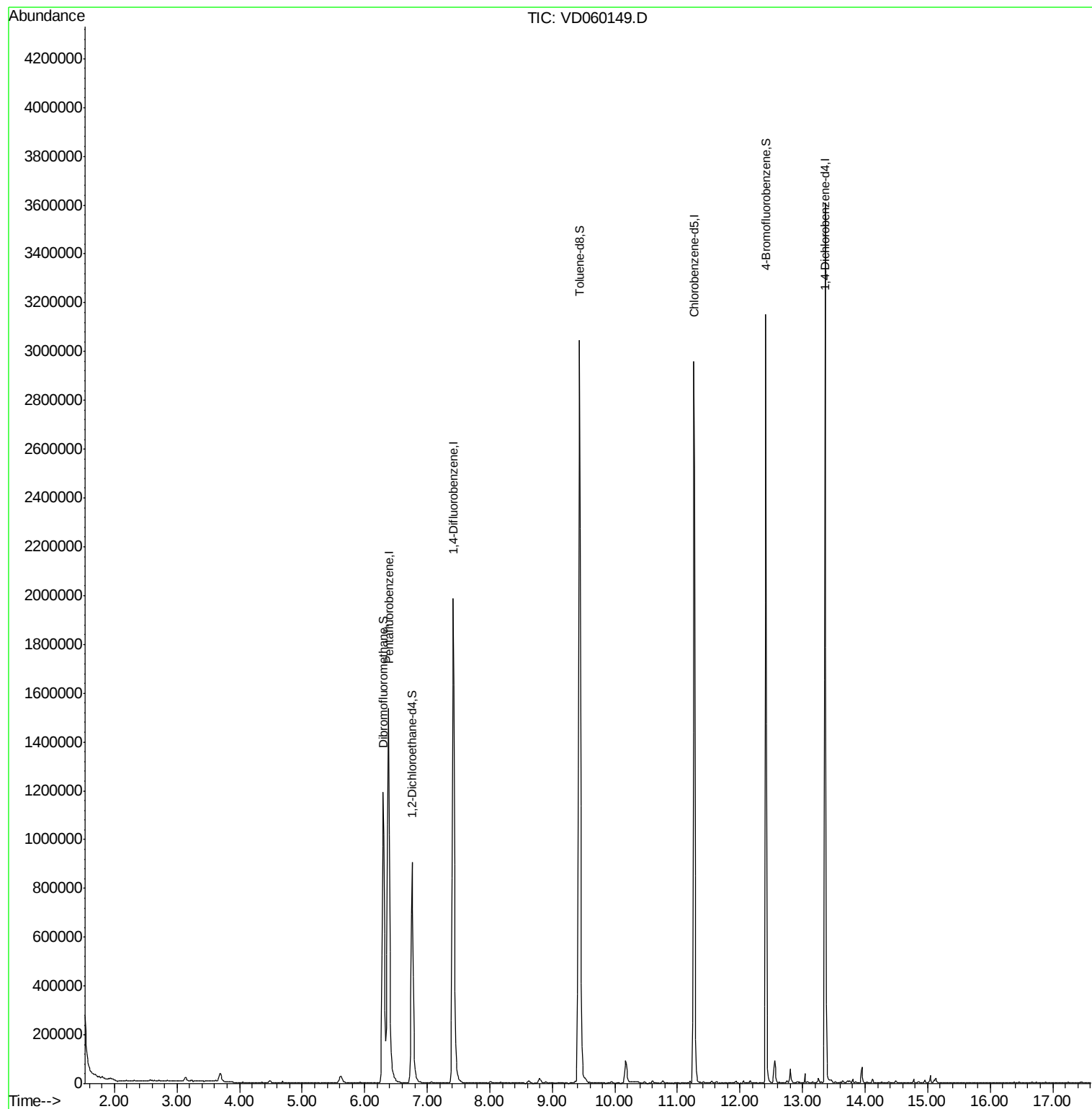
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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Quant Title : SW846 8260  
QLast Update : Tue Oct 02 06:56:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.38 min Scan# 494

Delta R.T. -0.00 min

Lab File: VD060149.D

Acq: 9 Oct 2018 13:08

Instrument :

MSVOA\_D

ClientSampleId :

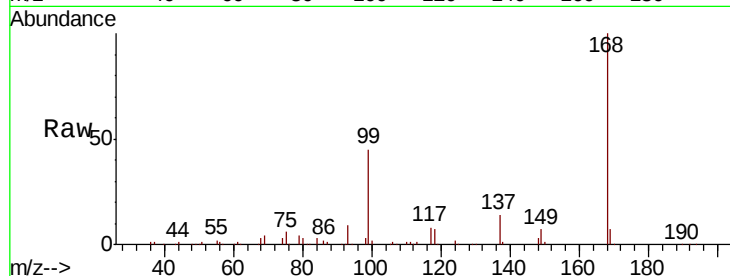
T1-GRAVELRE

Tot Ion:168 Resp: 1561695

Ion Ratio Lower Upper

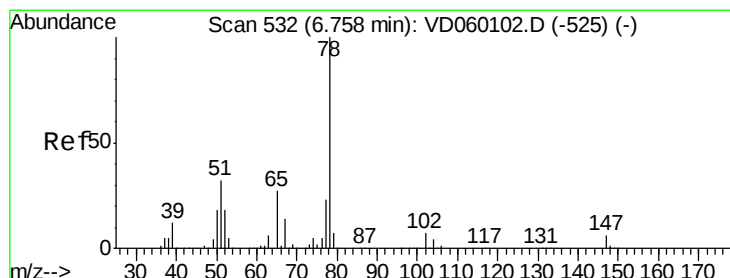
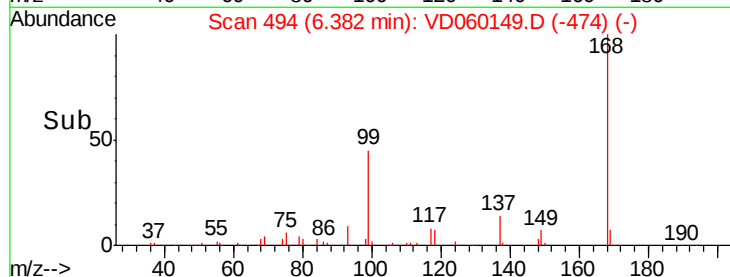
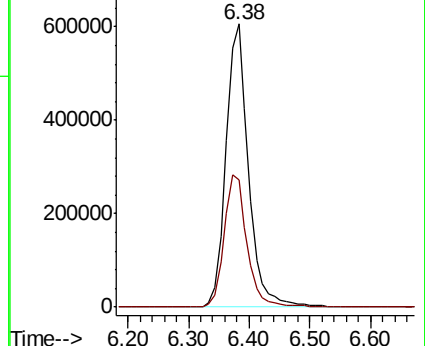
168 100

99 44.8 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.76 min Scan# 532

Delta R.T. -0.00 min

Lab File: VD060149.D

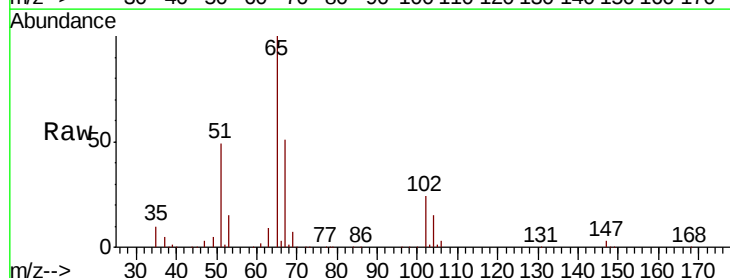
Acq: 9 Oct 2018 13:08

Tgt Ion: 65 Resp: 713061

Ion Ratio Lower Upper

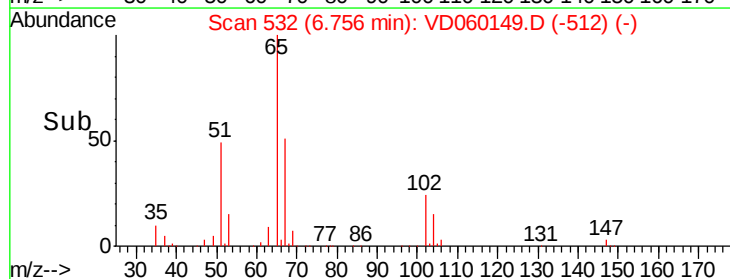
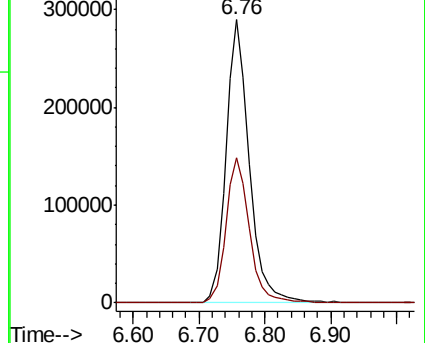
65 100

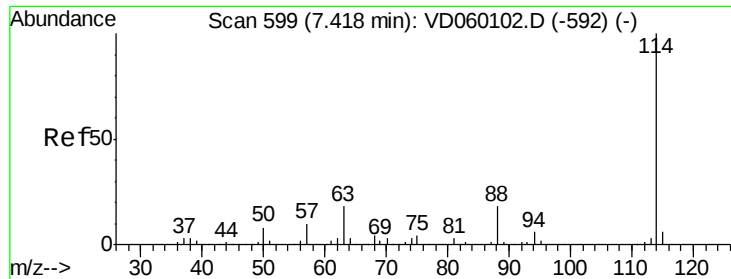
67 51.4 0.0 106.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

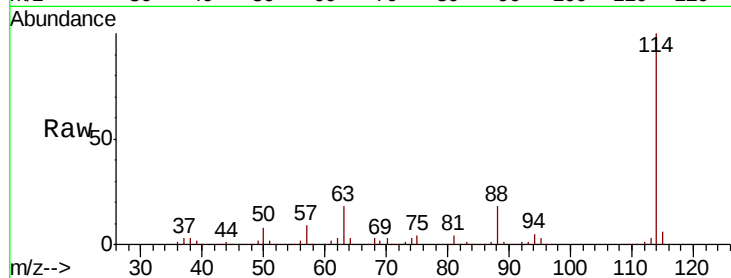




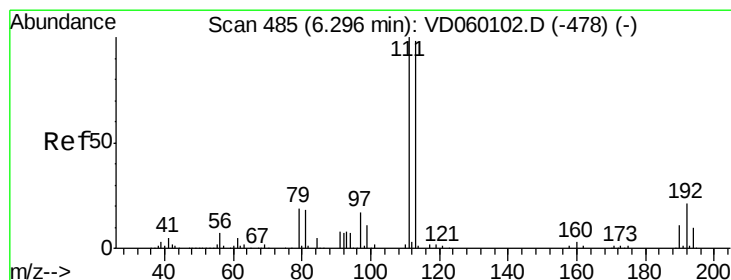
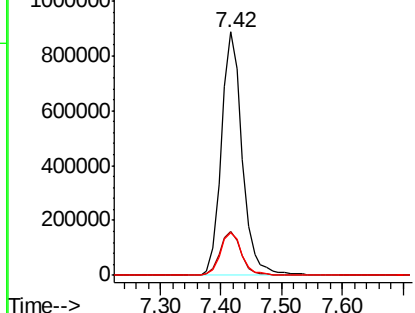
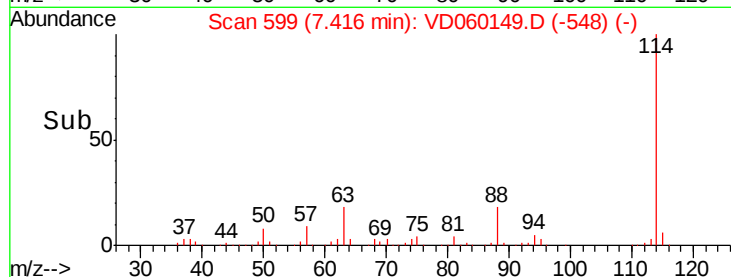
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.42 min Scan# 599  
 Delta R.T. -0.00 min  
 Lab File: VD060149.D  
 Acq: 9 Oct 2018 13:08

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 T1-GRAVELRE

Tot Ion:114 Resp: 2120000  
 Ion Ratio Lower Upper  
 114 100  
 63 18.3 0.0 36.0  
 88 17.7 0.0 36.2

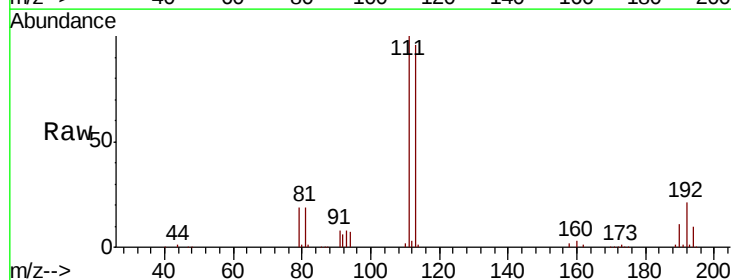


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

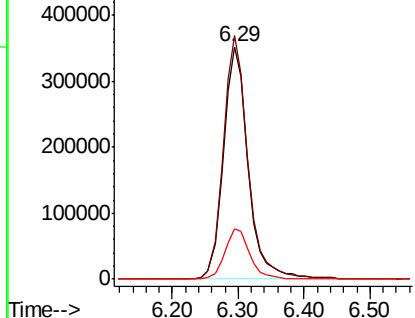
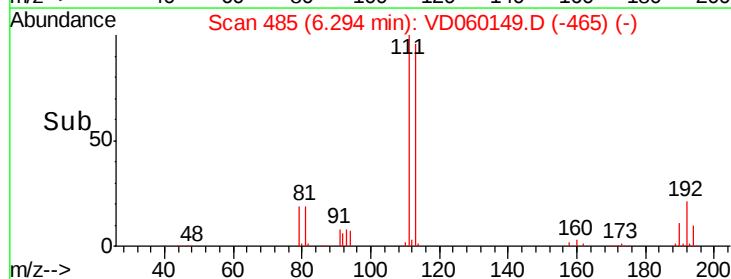


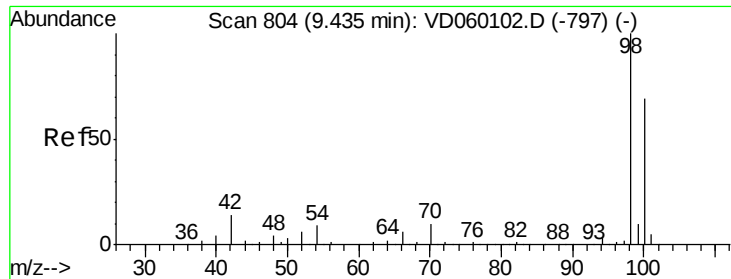
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.29 min Scan# 485  
 Delta R.T. -0.00 min  
 Lab File: VD060149.D  
 Acq: 9 Oct 2018 13:08

Tgt Ion:113 Resp: 925231  
 Ion Ratio Lower Upper  
 113 100  
 111 104.7 81.5 122.3  
 192 21.7 17.4 26.0



Abundance Ion 112.90 (112.60 to 113.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 191.80 (191.50 to 192.50): V

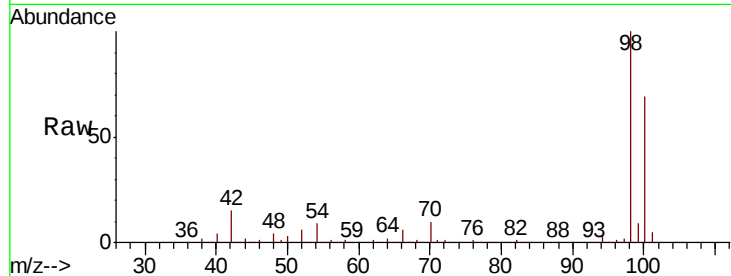




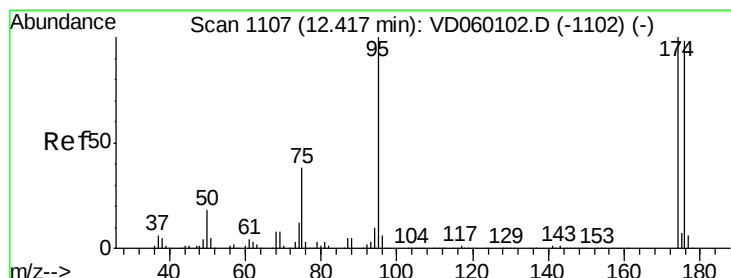
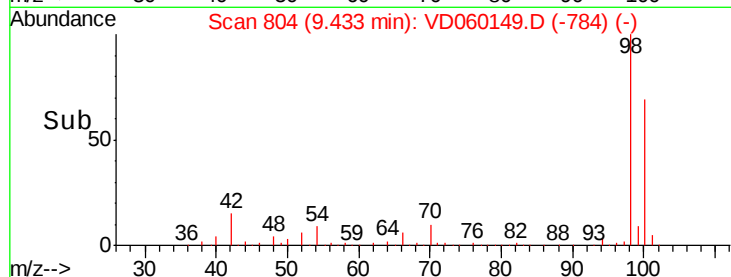
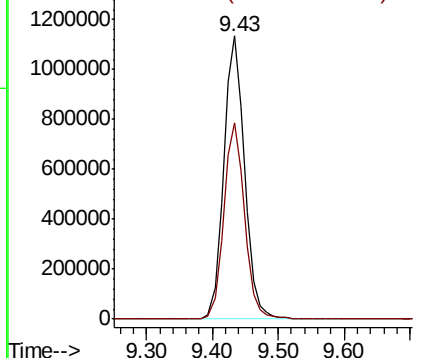
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.43 min Scan# 804  
Delta R.T. -0.00 min  
Lab File: VD060149.D  
Acq: 9 Oct 2018 13:08

Instrument :  
MSVOA\_D  
ClientSampleId :  
T1-GRAVELRE

Tot Ion: 98 Resp: 2508512  
Ion Ratio Lower Upper  
98 100  
100 69.2 55.4 83.0

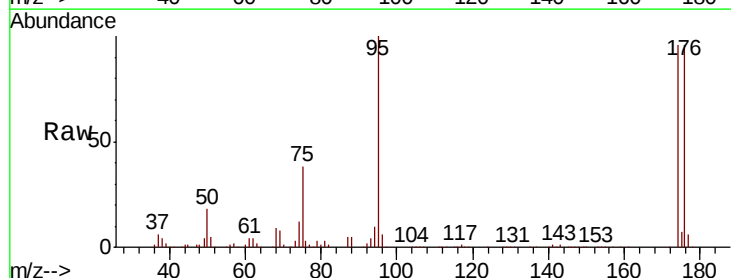


Abundance Ion 98.05 (97.75 to 98.75): VD0  
Ion 100.05 (99.75 to 100.75): VD

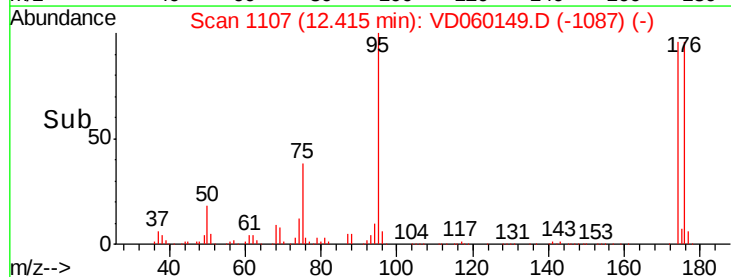
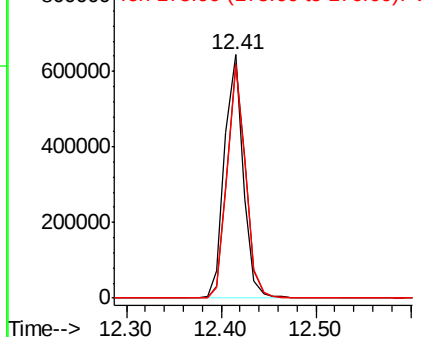


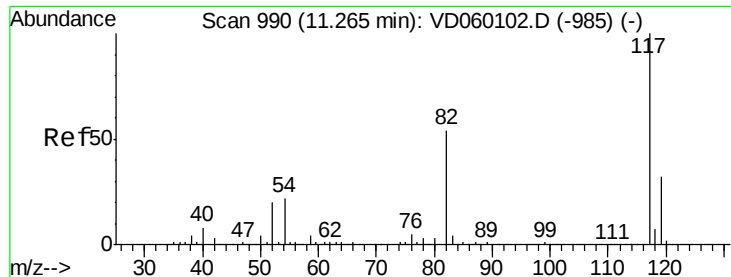
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.41 min Scan# 1107  
Delta R.T. -0.00 min  
Lab File: VD060149.D  
Acq: 9 Oct 2018 13:08

Tgt Ion: 95 Resp: 879213  
Ion Ratio Lower Upper  
95 100  
174 96.3 0.0 200.2  
176 95.6 0.0 195.6



Abundance Ion 95.00 (94.70 to 95.70): VD0  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.26 min Scan# 990

Delta R.T. -0.00 min

Lab File: VD060149.D

Acq: 9 Oct 2018 13:08

Instrument :

MSVOA\_D

ClientSampleId :

T1-GRAVELRE

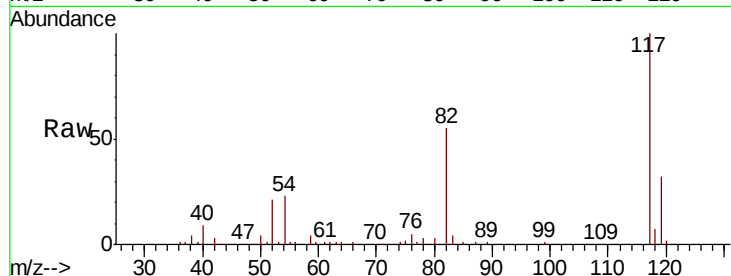
Tot Ion:117 Resp: 1648943

Ion Ratio Lower Upper

117 100

82 55.3 43.4 65.2

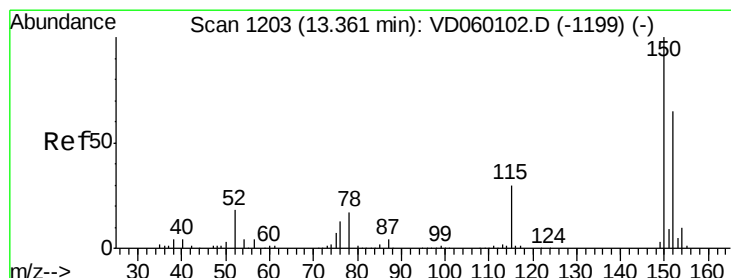
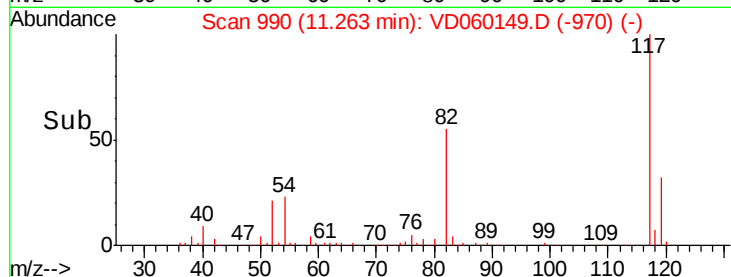
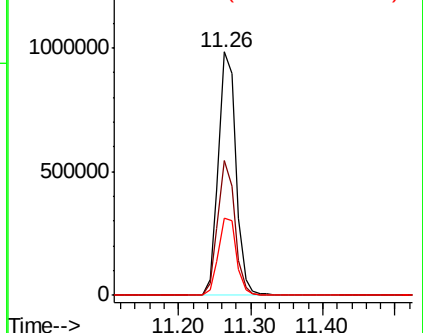
119 31.8 26.0 39.0



Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.36 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD060149.D

Acq: 9 Oct 2018 13:08

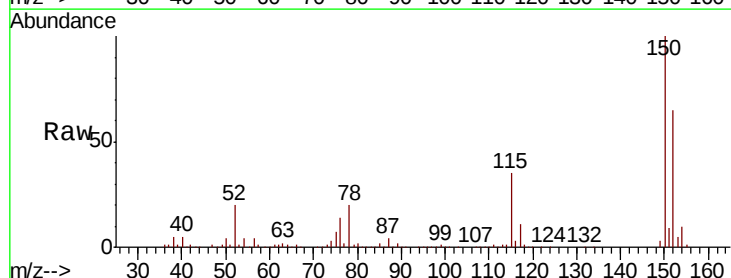
Tgt Ion:152 Resp: 793729

Ion Ratio Lower Upper

152 100

115 53.4 27.1 81.2

150 153.3 0.0 311.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V

