

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051319\  
 Data File : VD062310.D  
 Acq On : 13 May 2019 17:44  
 Operator : FY/SY  
 Sample : K2734-21RE  
 Misc : 5.53g/5mL/MSVOA D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS015-0002-01RE

Quant Time: May 14 05:49:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.06  | 168  | 289962   | 50.00 | ug/l  | 0.04     |
| 34) 1,4-Difluorobenzene    | 8.23  | 114  | 386229   | 50.00 | ug/l  | 0.04     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 255310   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 75101    | 50.00 | ug/l  | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.47  | 65   | 176604   | 65.54 | ug/l    | 0.04     |
| Spiked Amount               |       |      | Recovery | =     | 131.08% |          |
| 35) Dibromofluoromethane    | 6.95  | 113  | 172875   | 53.95 | ug/l    | 0.05     |
| Spiked Amount               |       |      | Recovery | =     | 107.90% |          |
| 50) Toluene-d8              | 10.43 | 98   | 292562   | 37.86 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 75.72%  |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 94299    | 30.39 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 60.78%  |          |

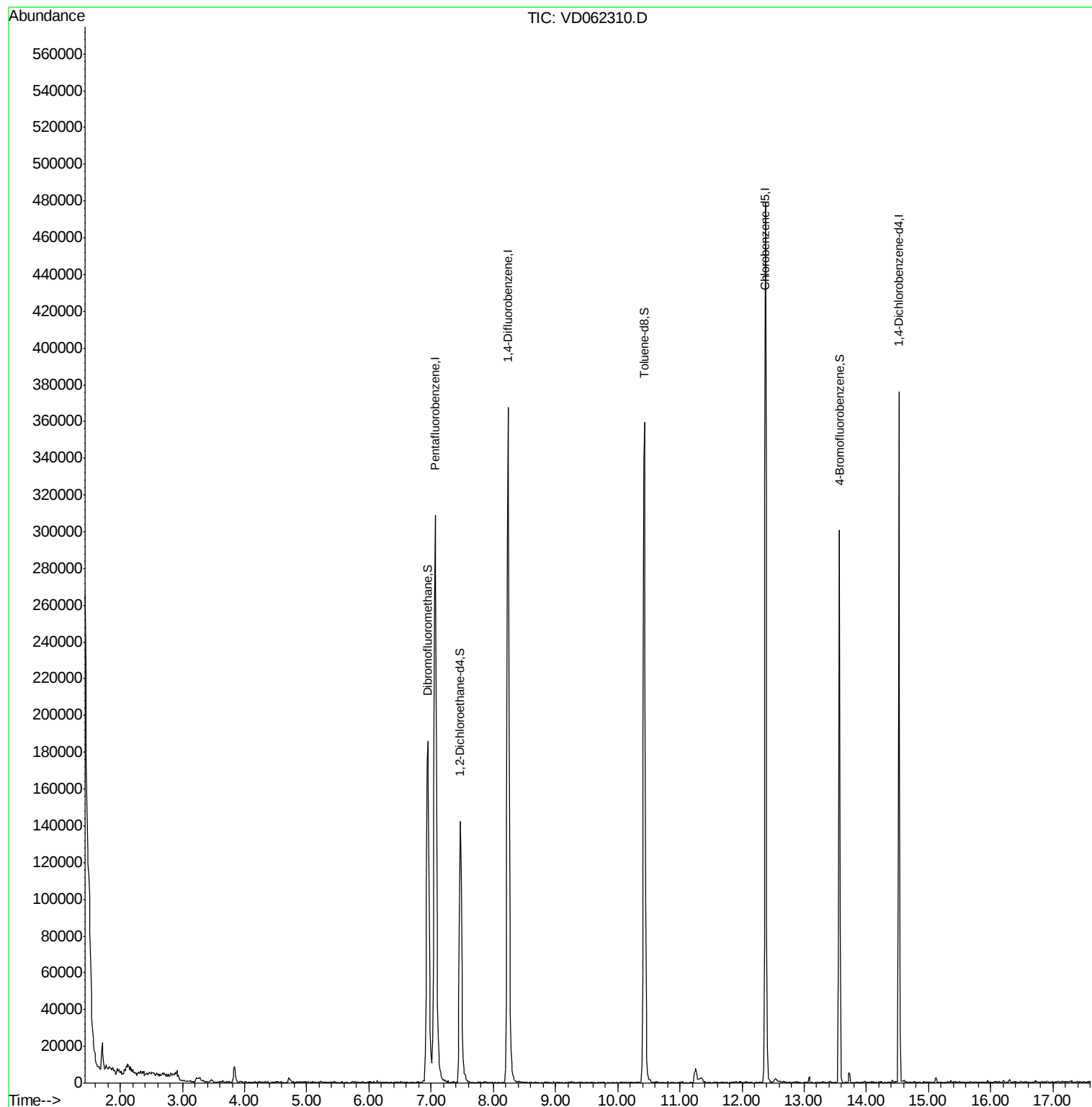
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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Quant Title : SW846 8260  
QLast Update : Tue May 07 14:26:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD062310.D

Acq: 13 May 2019 17:44

Instrument :

MSVOA\_D

ClientSampleId :

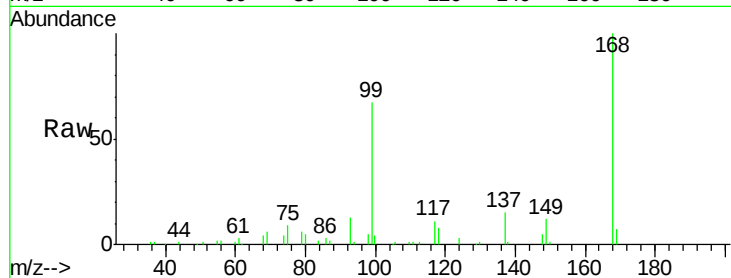
P026-SS015-0002-01RE

Tot Ion:168 Resp: 289962

Ion Ratio Lower Upper

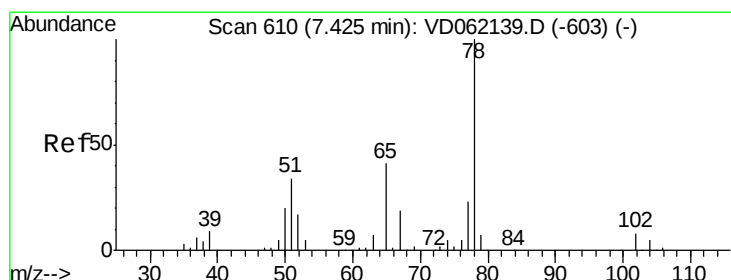
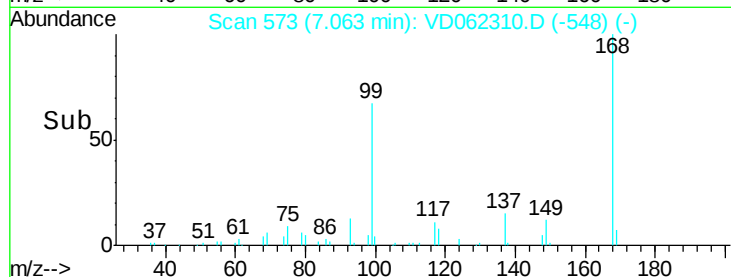
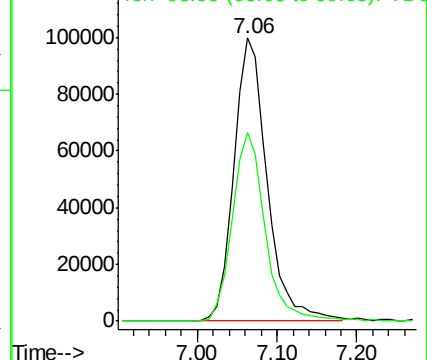
168 100

99 66.8 46.5 69.7



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: 65.539 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.04 min

Lab File: VD062310.D

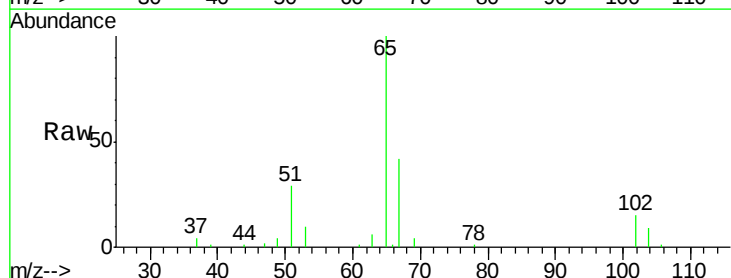
Acq: 13 May 2019 17:44

Tgt Ion: 65 Resp: 176604

Ion Ratio Lower Upper

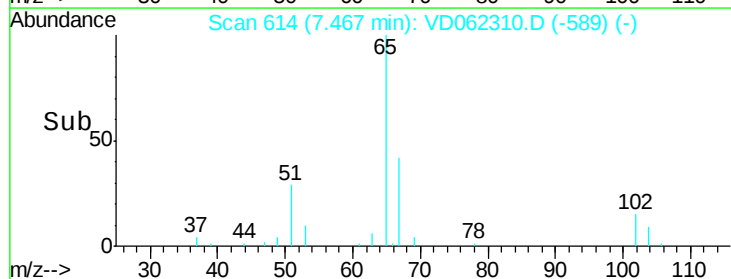
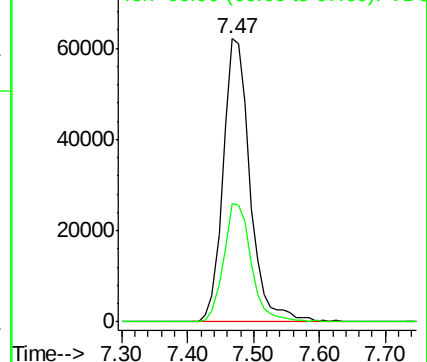
65 100

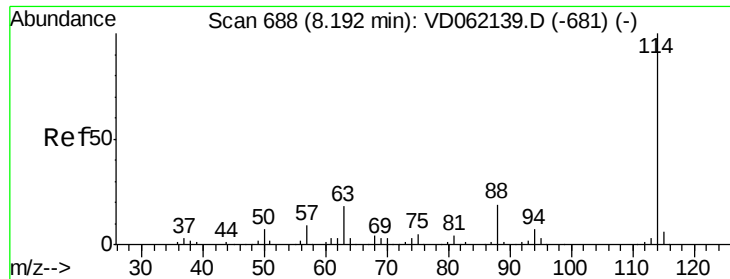
67 41.7 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

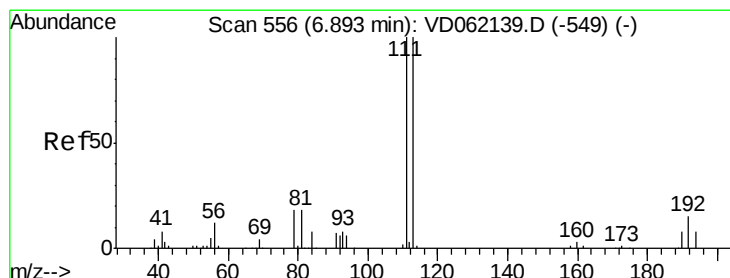
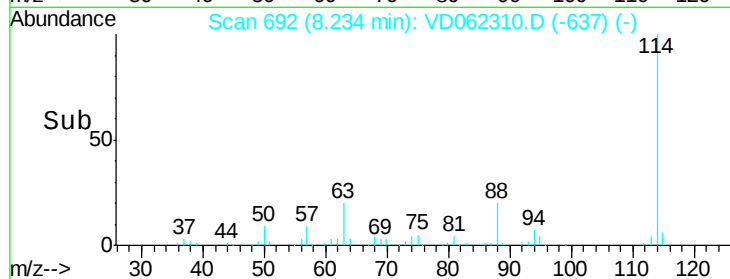
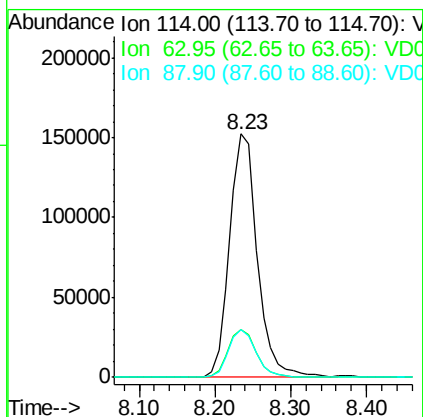
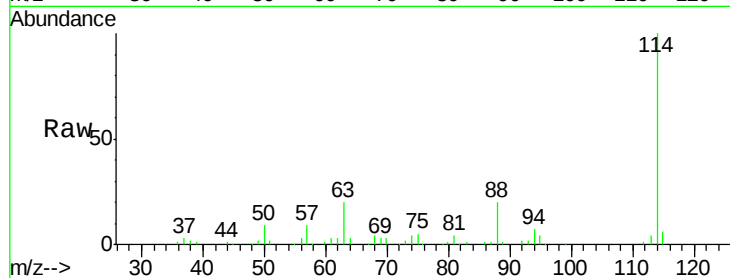




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.23 min Scan# 692  
 Delta R.T. 0.04 min  
 Lab File: VD062310.D  
 Acq: 13 May 2019 17:44

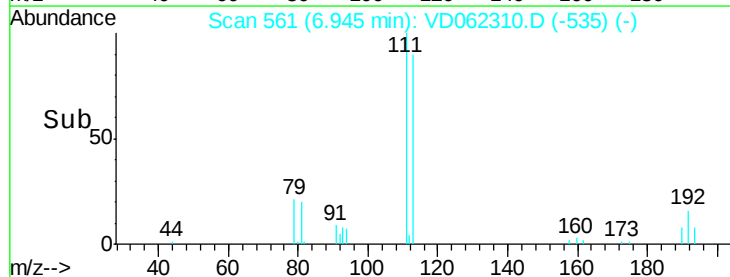
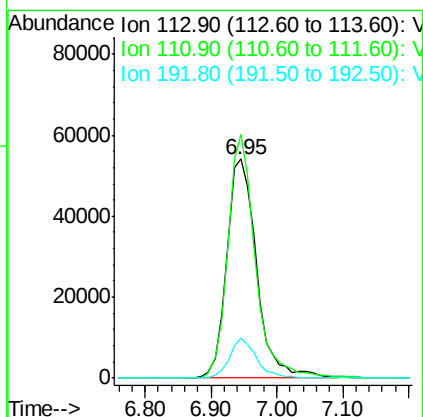
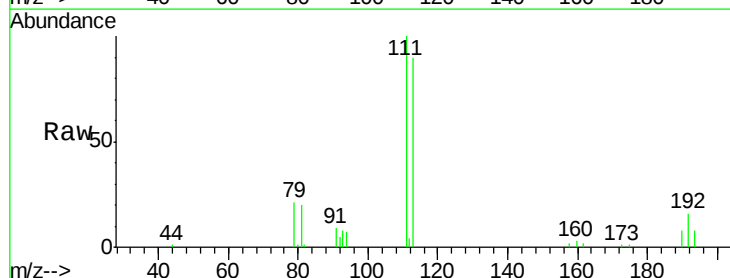
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P026-SS015-0002-01RE

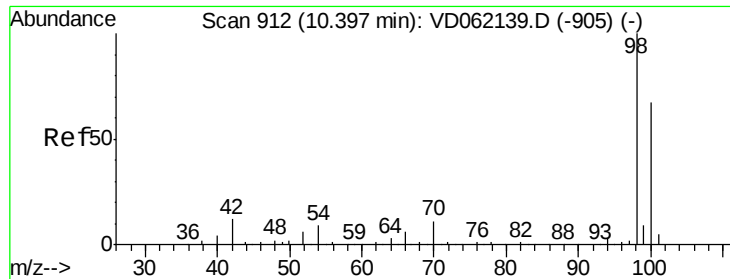
Tot Ion:114 Resp: 386229  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 32.4  
 88 19.7 0.0 33.6



#35  
 Dibromofluoromethane  
 Concen: 53.946 ug/l  
 RT: 6.95 min Scan# 561  
 Delta R.T. 0.05 min  
 Lab File: VD062310.D  
 Acq: 13 May 2019 17:44

Tgt Ion:113 Resp: 172875  
 Ion Ratio Lower Upper  
 113 100  
 111 111.2 78.5 117.7  
 192 18.3 13.0 19.4





#50

Toluene-d8

Concen: 37.865 ug/l

RT: 10.43 min Scan# 915

Delta R.T. 0.03 min

Lab File: VD062310.D

Acq: 13 May 2019 17:44

Instrument :

MSVOA\_D

ClientSampleId :

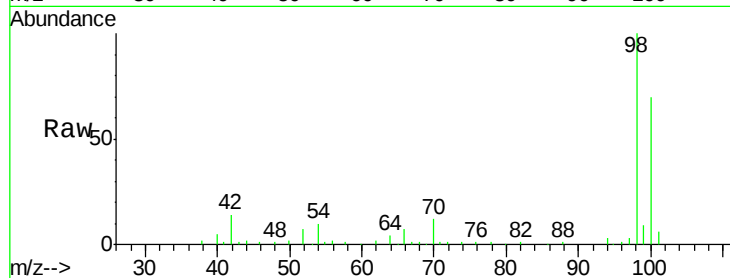
P026-SS015-0002-01RE

Tot Ion: 98 Resp: 292562

Ion Ratio Lower Upper

98 100

100 69.8 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VD062310.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD062310.D (-905) (-)

10.43

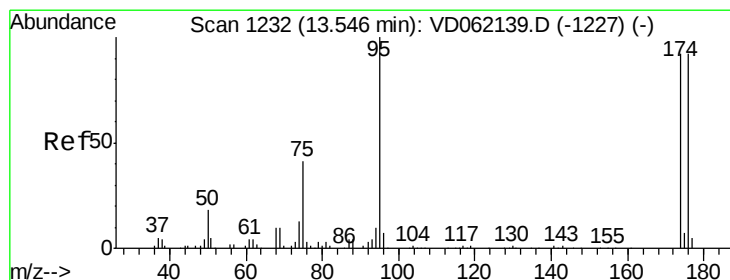
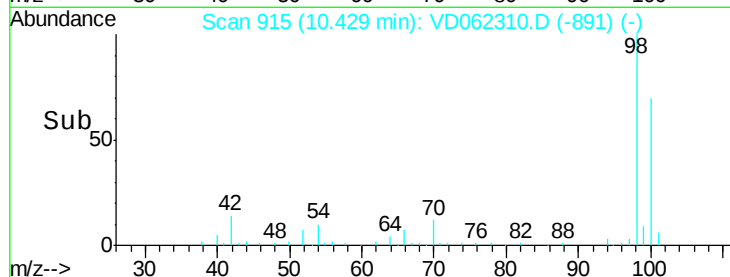
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 30.393 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062310.D

Acq: 13 May 2019 17:44

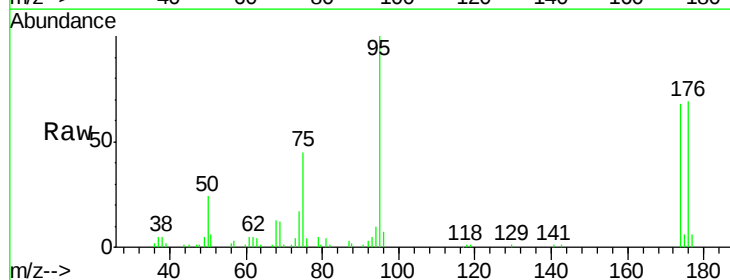
Tgt Ion: 95 Resp: 94299

Ion Ratio Lower Upper

95 100

174 67.9 0.0 181.8

176 68.9 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VD062310.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD062310.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD062310.D (-1227) (-)

13.56

80000

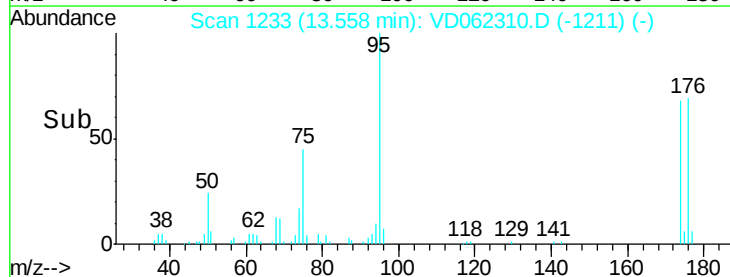
60000

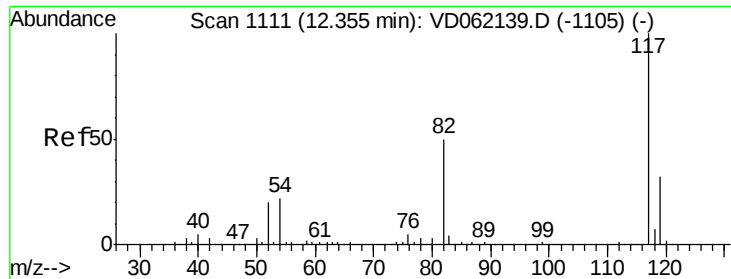
40000

20000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.38 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VD062310.D

Acq: 13 May 2019 17:44

Instrument :

MSVOA\_D

ClientSampleId :

P026-SS015-0002-01RE

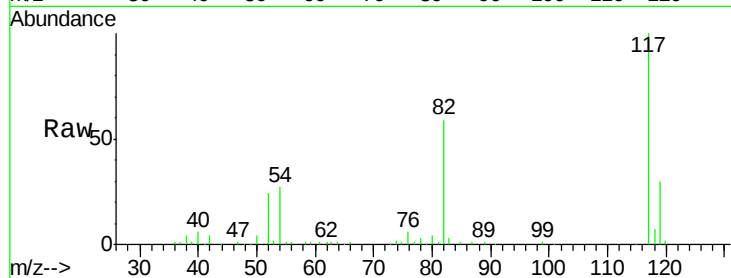
Tot Ion:117 Resp: 255310

Ion Ratio Lower Upper

117 100

82 58.7 36.2 54.2#

119 29.8 26.2 39.4



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

12.38

150000

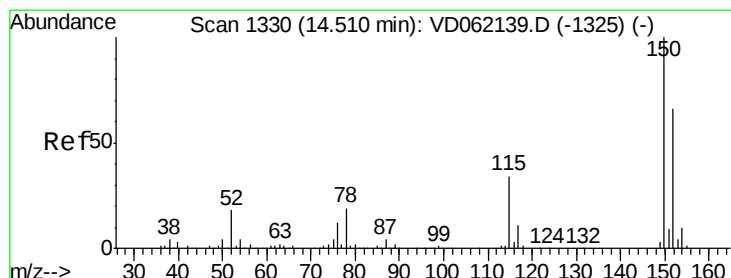
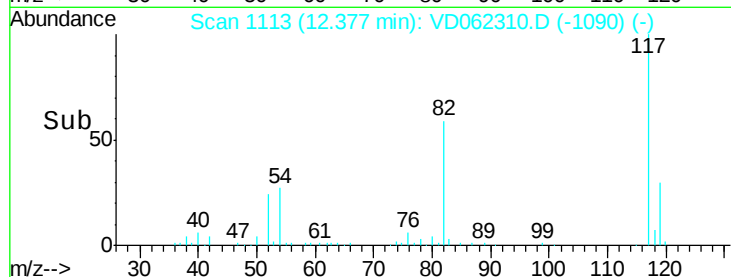
100000

50000

0

12.30 12.40 12.50

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062310.D

Acq: 13 May 2019 17:44

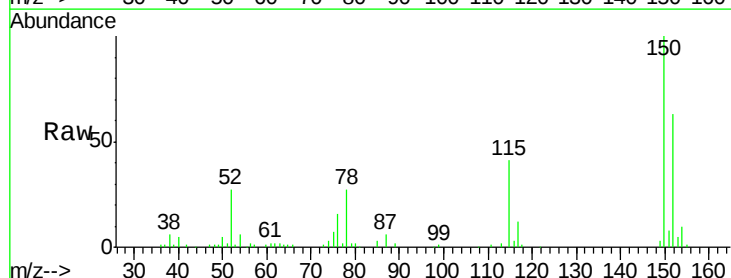
Tgt Ion:152 Resp: 75101

Ion Ratio Lower Upper

152 100

115 64.8 30.9 92.7

150 159.8 0.0 314.8



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

14.52

120000

100000

80000

60000

40000

20000

0

14.50 14.60

Time-->

