

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031619\  
 Data File : VD061130.D  
 Acq On : 17 Mar 2019 2:38  
 Operator : VA/AP  
 Sample : K1956-05  
 Misc : 7.7a/5ml/MSVOA D/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 18 05:29:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 02:35:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 549966   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.23  | 114  | 994035   | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 848035   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 345712   | 50.00 | ug/l  | 0.00     |

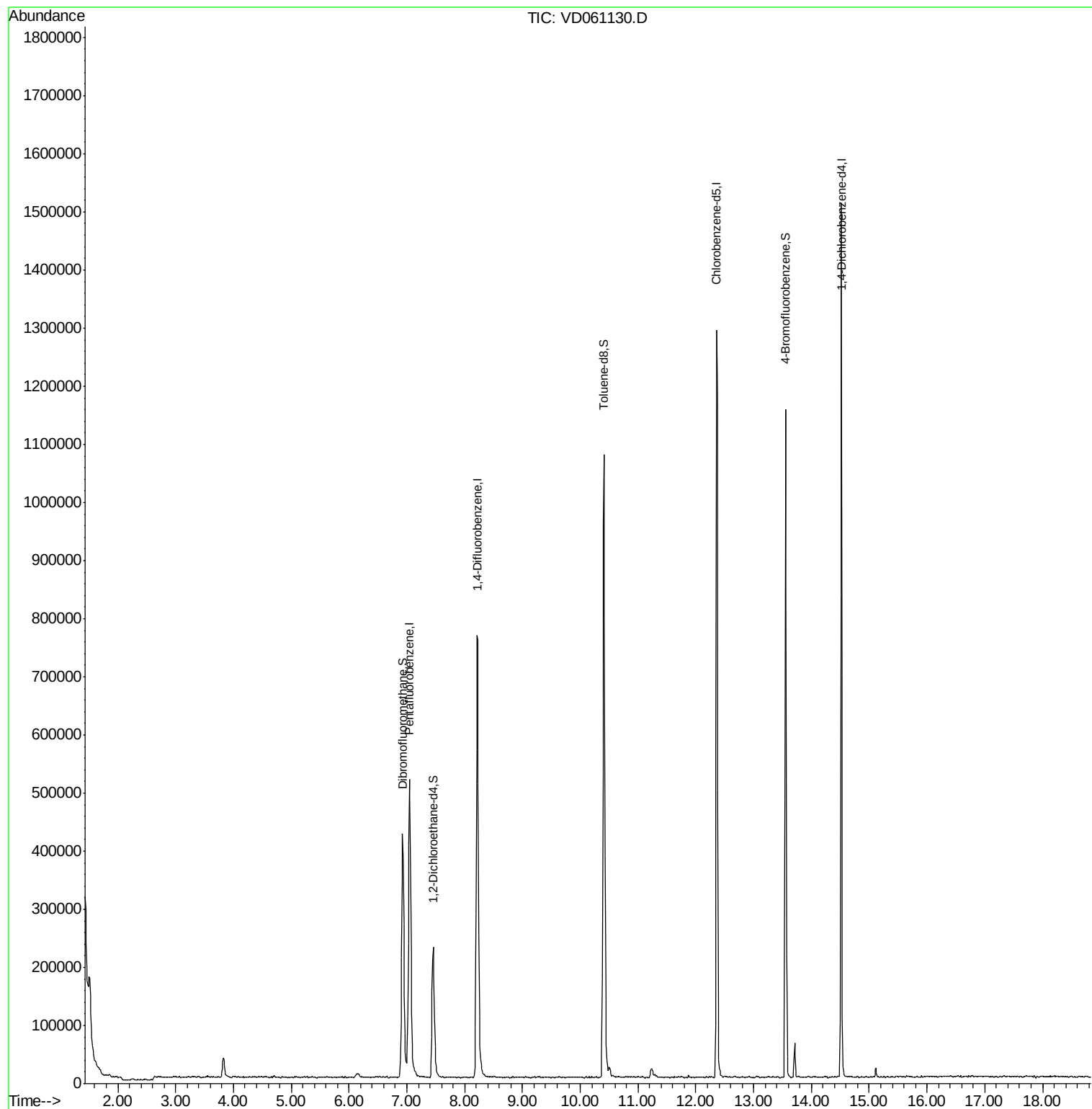
| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 226095   | 49.39 | ug/l    | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.78%  |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 408276   | 55.34 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 110.68% |          |
| 50) Toluene-d8              | 10.41 | 98   | 964417   | 52.06 | ug/l    | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.12% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 371635   | 51.70 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.40% |          |

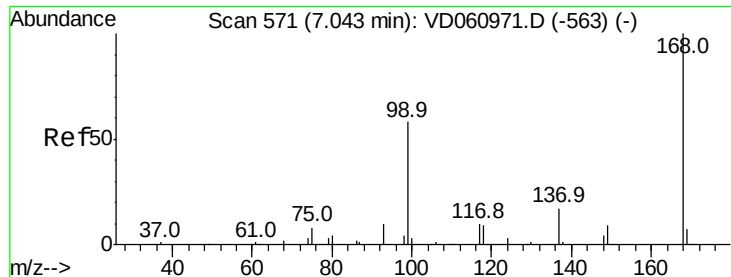
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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QLast Update : Fri Mar 08 02:35:39 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD061130.D

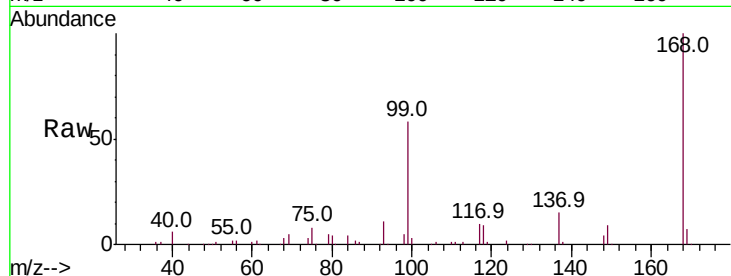
Acq: 17 Mar 2019 2:38

Tot Ion:168 Resp: 549966

Ion Ratio Lower Upper

168 100

99 58.3 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

150000

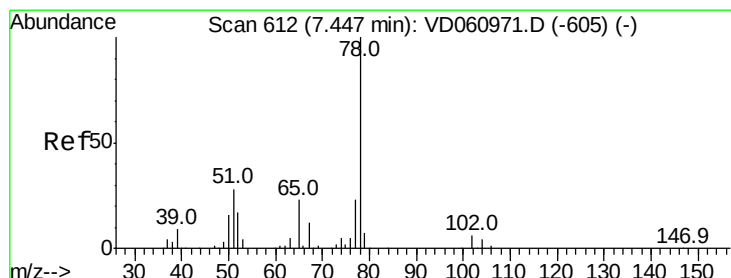
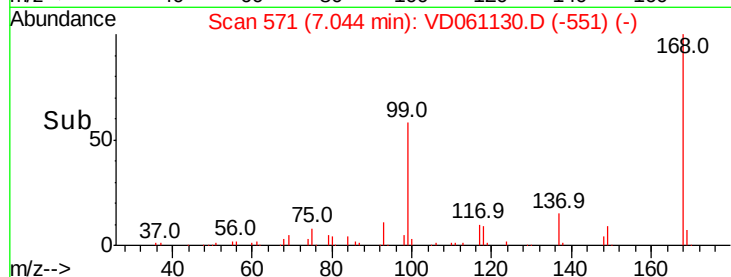
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD061130.D

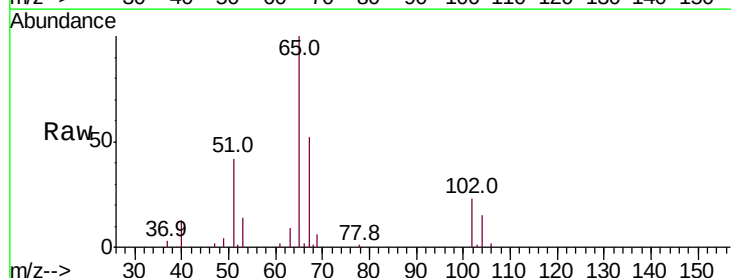
Acq: 17 Mar 2019 2:38

Tgt Ion: 65 Resp: 226095

Ion Ratio Lower Upper

65 100

67 52.5 0.0 105.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

80000

60000

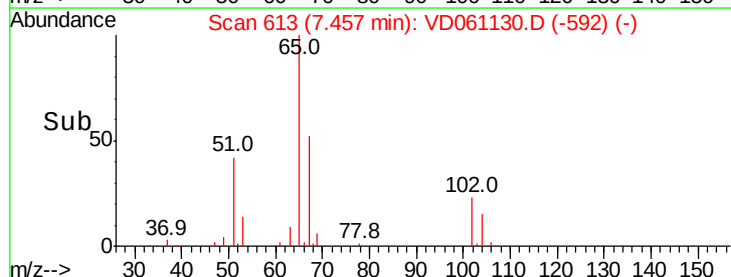
40000

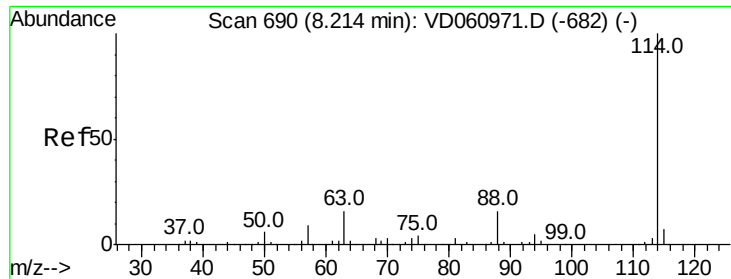
20000

0

7.30 7.40 7.50 7.60

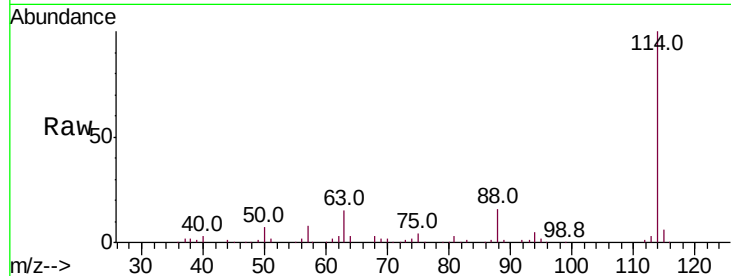
Time-->



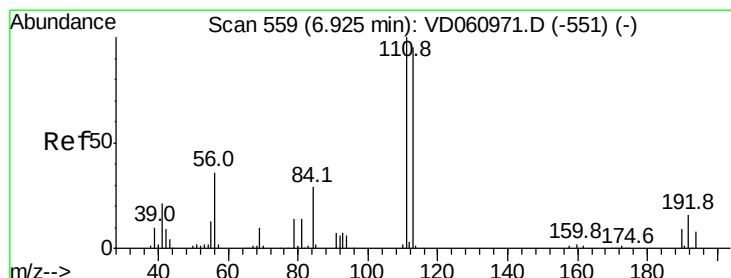
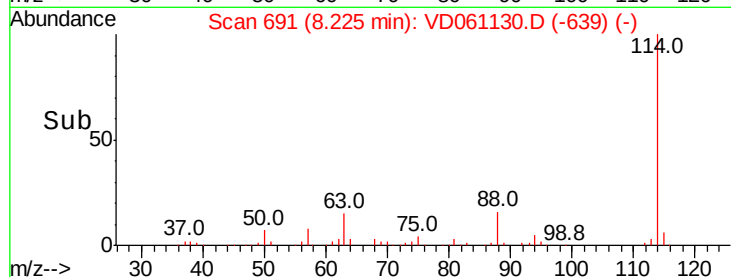
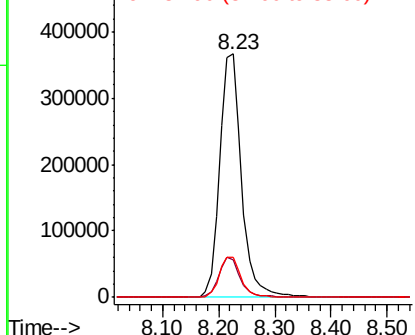


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.23 min Scan# 691  
 Delta R.T. 0.01 min  
 Lab File: VD061130.D  
 Acq: 17 Mar 2019 2:38

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 15.4  | 0.0   | 31.4  |
| 88      | 16.3  | 0.0   | 33.0  |

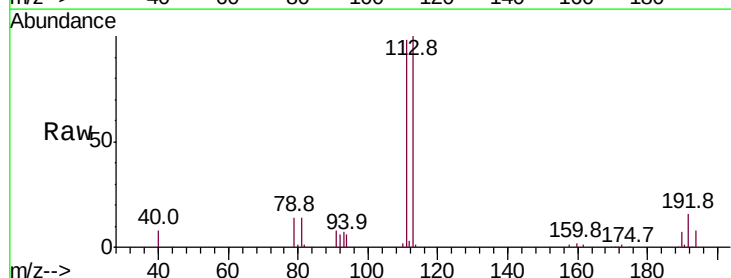


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

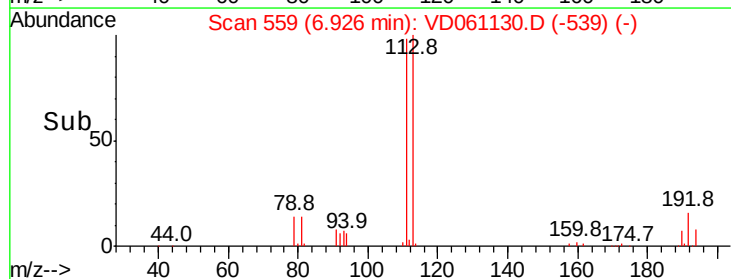
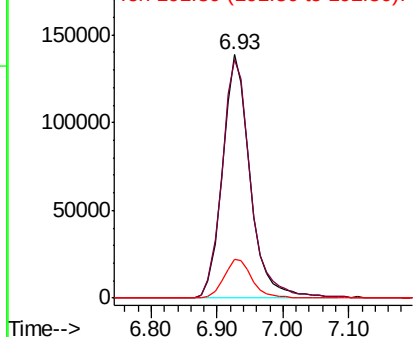


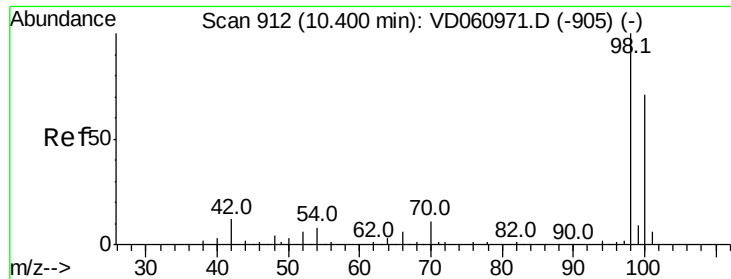
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.93 min Scan# 559  
 Delta R.T. 0.00 min  
 Lab File: VD061130.D  
 Acq: 17 Mar 2019 2:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 98.1  | 84.2  | 126.4 |
| 192     | 16.1  | 13.1  | 19.7  |



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: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD061130.D

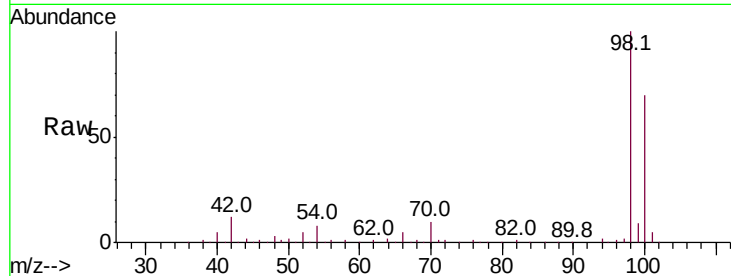
Acq: 17 Mar 2019 2:38

Tot Ion: 98 Resp: 964417

Ion Ratio Lower Upper

98 100

100 70.4 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

10.41

400000

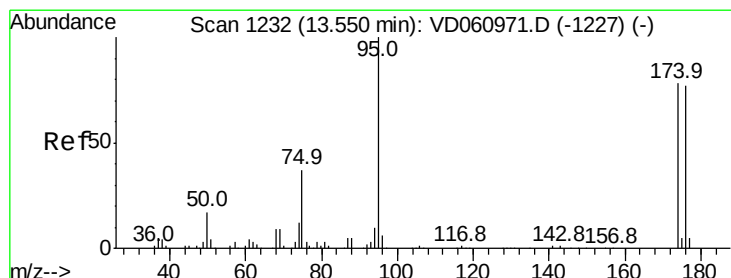
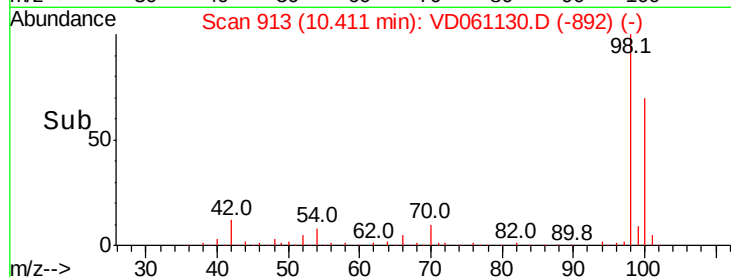
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD061130.D

Acq: 17 Mar 2019 2:38

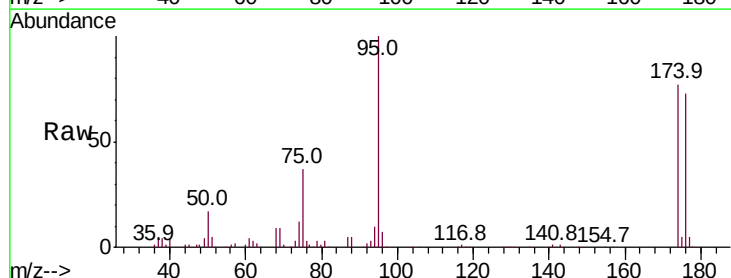
Tgt Ion: 95 Resp: 371635

Ion Ratio Lower Upper

95 100

174 77.1 0.0 155.6

176 72.7 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): VD060971.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD060971.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD060971.D (-1227) (-)

13.55

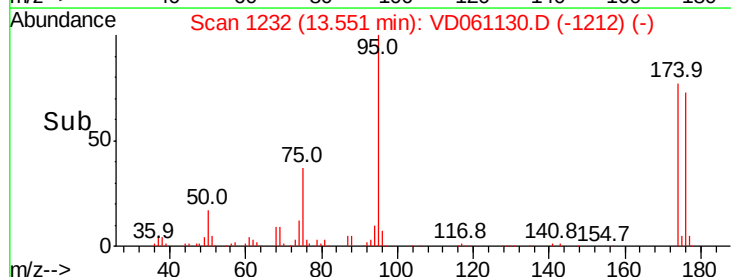
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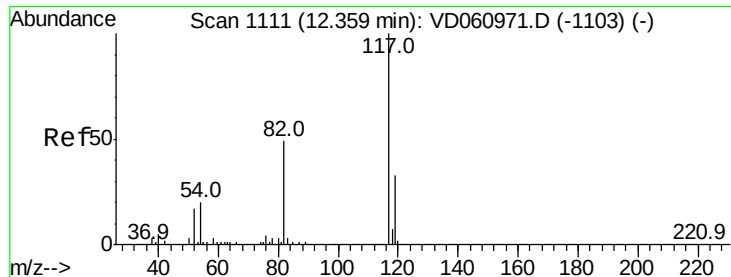
200000

100000

0

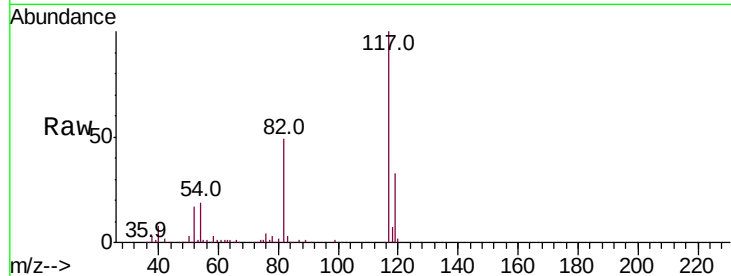
Time-->



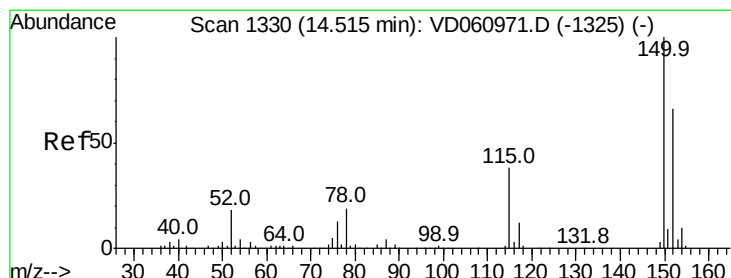
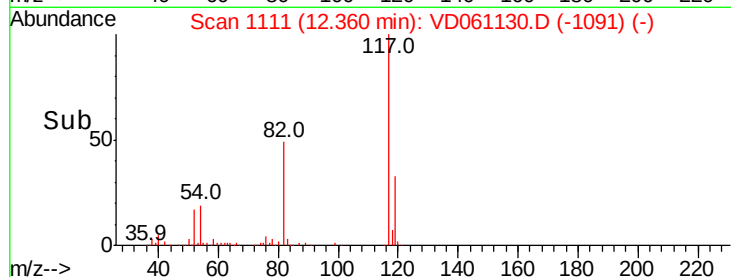
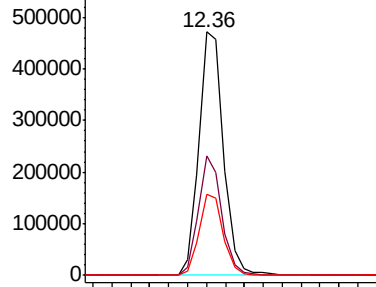


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. 0.00 min  
Lab File: VD061130.D  
Acq: 17 Mar 2019 2:38

Tot Ion:117 Resp: 848035  
Ion Ratio Lower Upper  
117 100  
82 48.9 38.9 58.3  
119 33.1 26.6 39.8

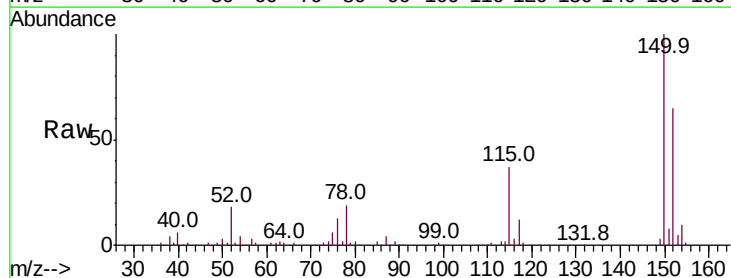


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VD061130.D  
Acq: 17 Mar 2019 2:38

Tgt Ion:152 Resp: 345712  
Ion Ratio Lower Upper  
152 100  
115 57.1 28.6 85.9  
150 154.5 0.0 310.6



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

