

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061219\  
 Data File : VD062667.D  
 Acq On : 12 Jun 2019 11:49  
 Operator : VA/AP  
 Sample : VD0612SBL01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0612SBL01

Quant Time: Jun 13 07:34:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 00:02:21 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.04  | 168  | 867535   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 1073347  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 911313   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 513333   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 7.44   | 65  | 631613   | 50.45 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.90% |      |
| 35) Dibromofluoromethane    | 6.92   | 113 | 636016   | 56.19 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 112.38% |      |
| 50) Toluene-d8              | 10.40  | 98  | 1364967  | 57.32 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 114.64% |      |
| 62) 4-Bromofluorobenzene    | 13.55  | 95  | 591996   | 53.29 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.58% |      |

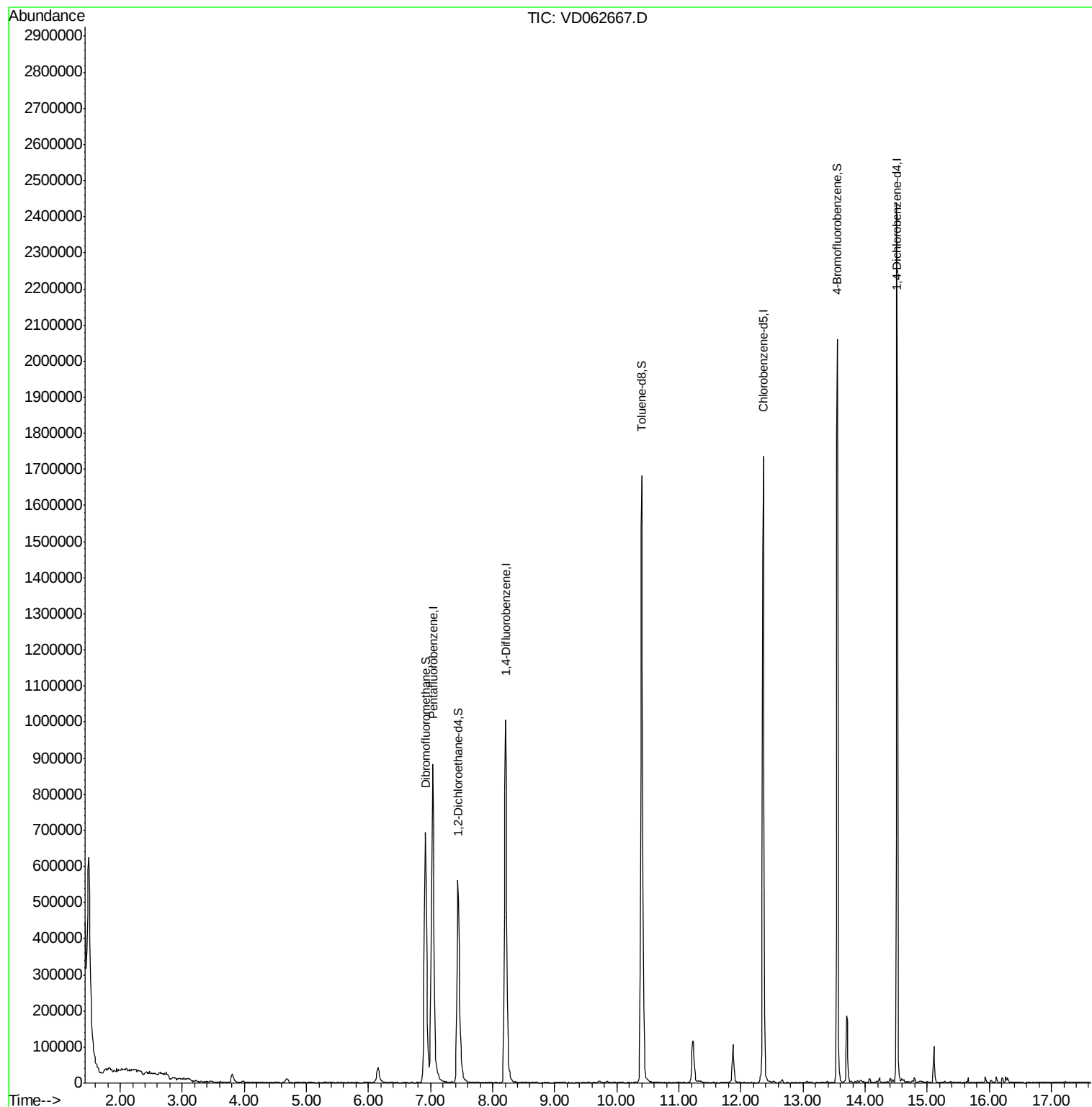
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

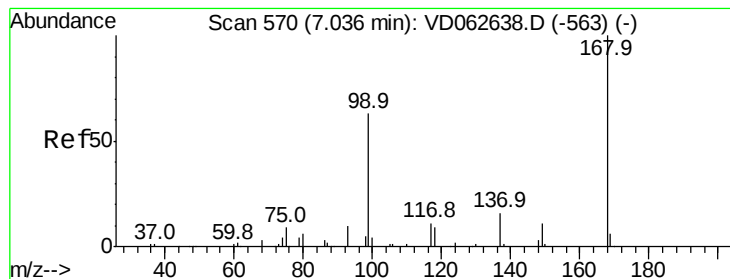
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :  
VD0612SBL01

Quant Time: Jun 13 07:34:31 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D060719S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 08 00:02:21 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD062667.D

Acq: 12 Jun 2019 11:49

Instrument :

MSVOA\_D

ClientSampleId :

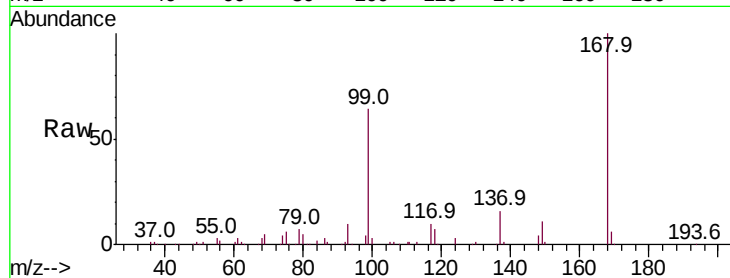
VD0612SBL01

Tot Ion:168 Resp: 867535

Ion Ratio Lower Upper

168 100

99 64.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

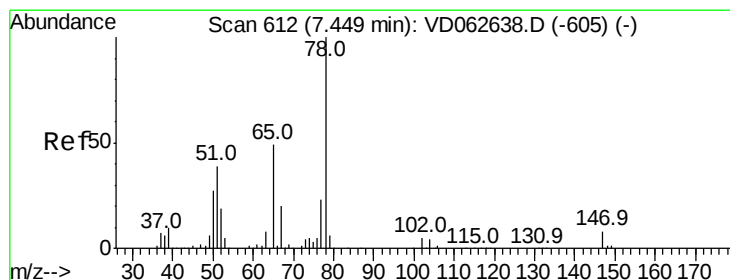
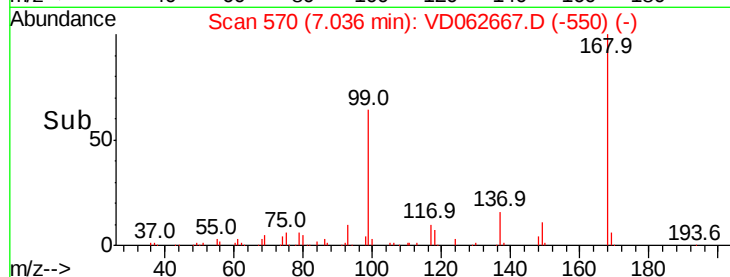
300000

200000

100000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 50.455 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD062667.D

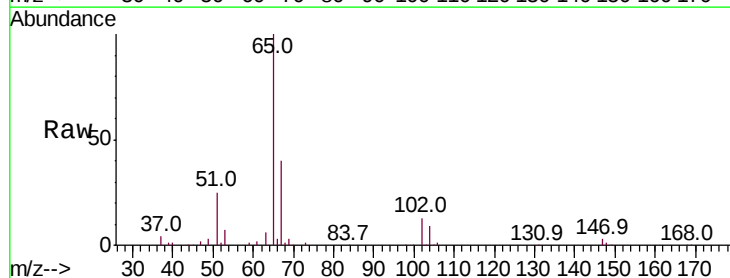
Acq: 12 Jun 2019 11:49

Tgt Ion: 65 Resp: 631613

Ion Ratio Lower Upper

65 100

67 40.5 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

250000

200000

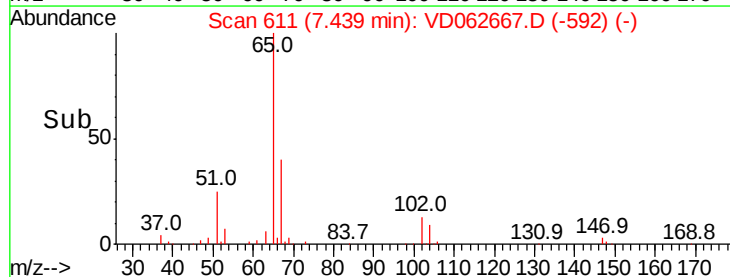
150000

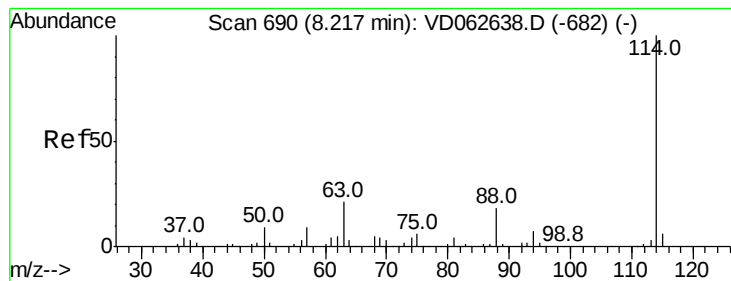
100000

50000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.01 min

Lab File: VD062667.D

Acq: 12 Jun 2019 11:49

Instrument :

MSVOA\_D

ClientSampleId :

VD0612SBL01

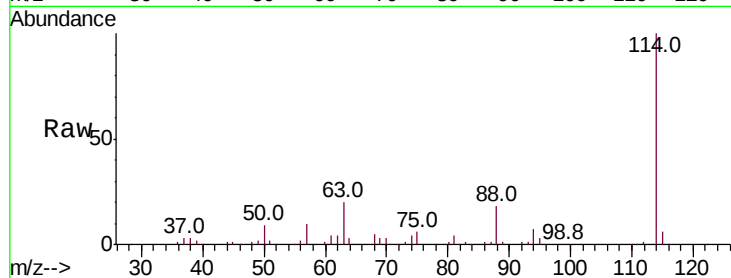
Tot Ion:114 Resp: 1073347

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.4

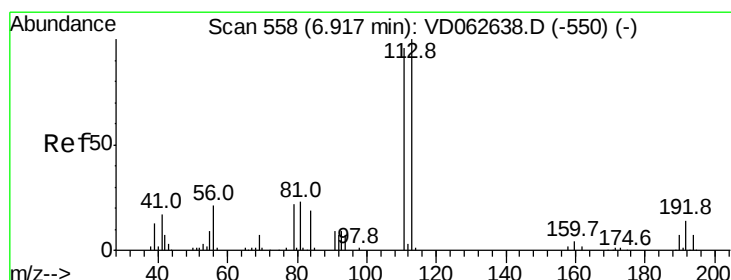
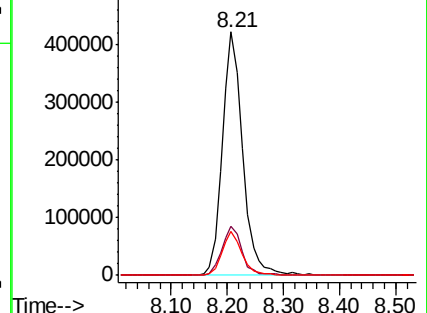
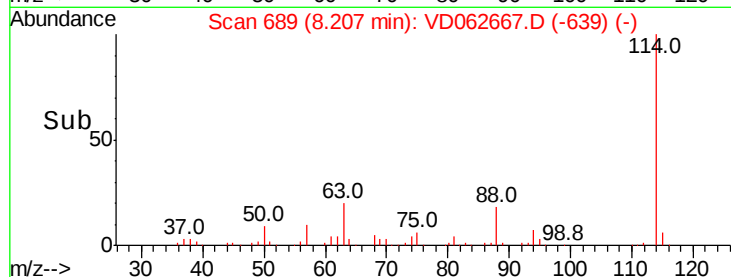
88 18.3 0.0 36.8



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: 56.186 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.00 min

Lab File: VD062667.D

Acq: 12 Jun 2019 11:49

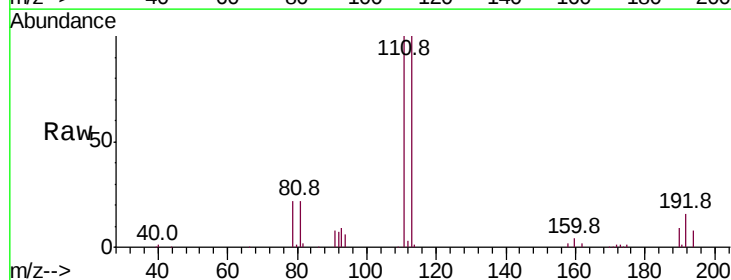
Tgt Ion:113 Resp: 636016

Ion Ratio Lower Upper

113 100

111 99.9 76.4 114.6

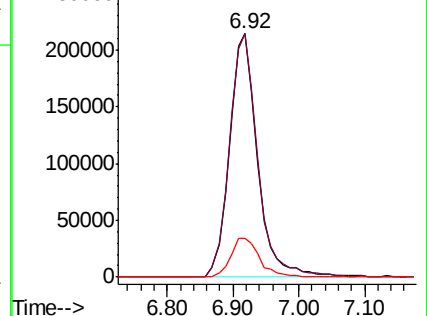
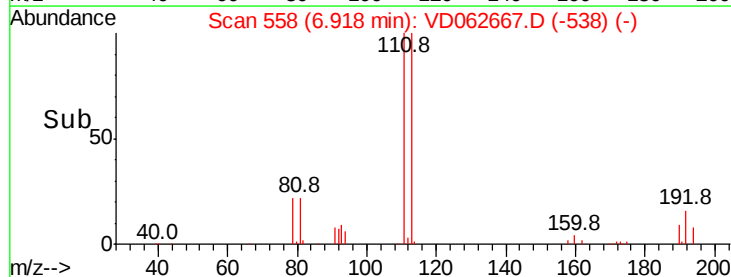
192 15.9 11.4 17.0

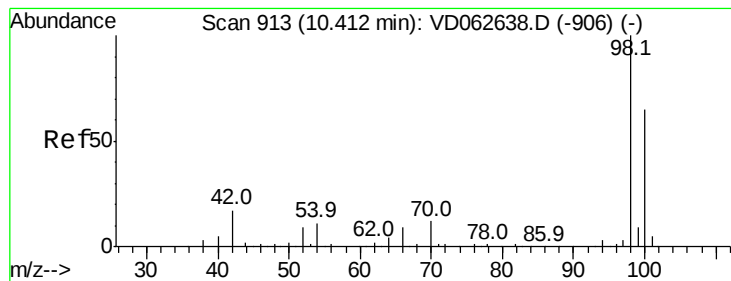


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#50

Toluene-d8

Concen: 57.320 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.01 min

Lab File: VD062667.D

Acq: 12 Jun 2019 11:49

Instrument :

MSVOA\_D

ClientSampleId :

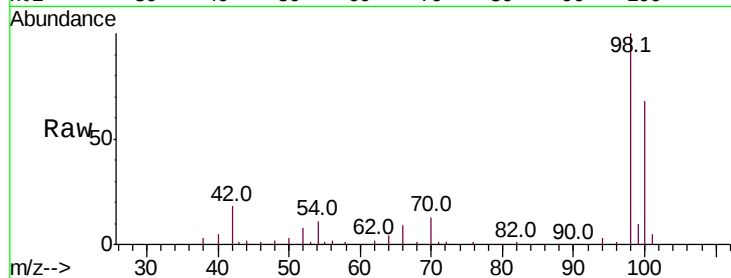
VD0612SBL01

Tot Ion: 98 Resp: 1364967

Ion Ratio Lower Upper

98 100

100 67.5 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

600000

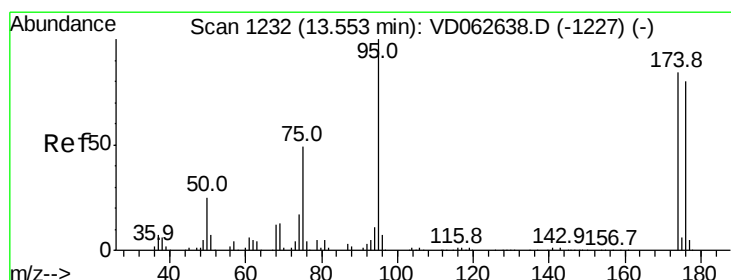
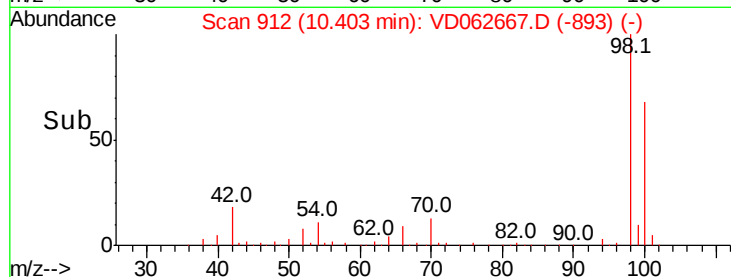
400000

200000

0

10.30 10.40 10.50 10.60

Time-->



#62

4-Bromofluorobenzene

Concen: 53.287 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062667.D

Acq: 12 Jun 2019 11:49

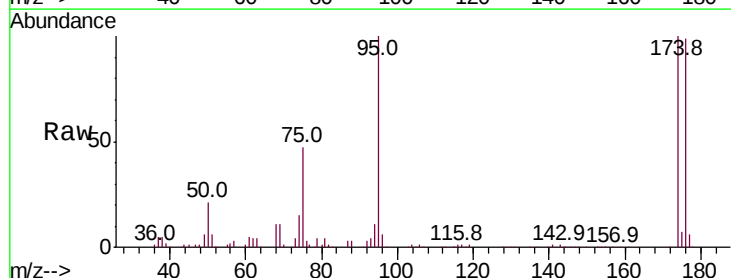
Tgt Ion: 95 Resp: 591996

Ion Ratio Lower Upper

95 100

174 100.2 0.0 167.0

176 99.2 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

500000

400000

300000

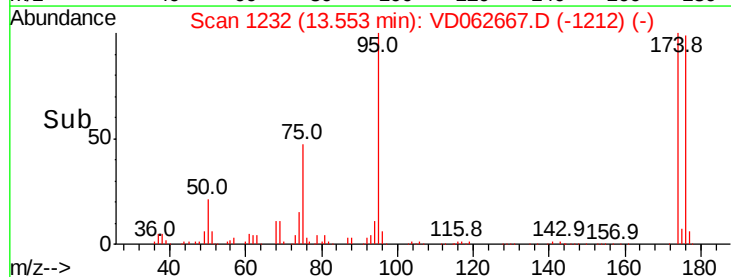
200000

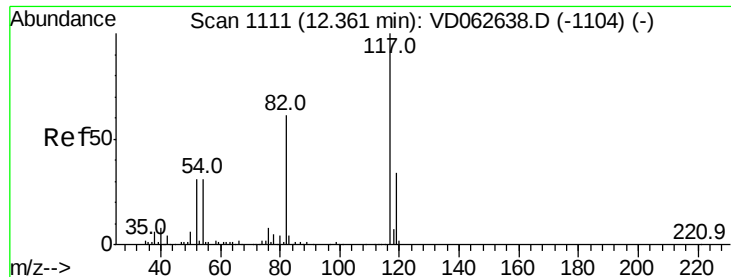
100000

0

13.50 13.55 13.60

Time-->

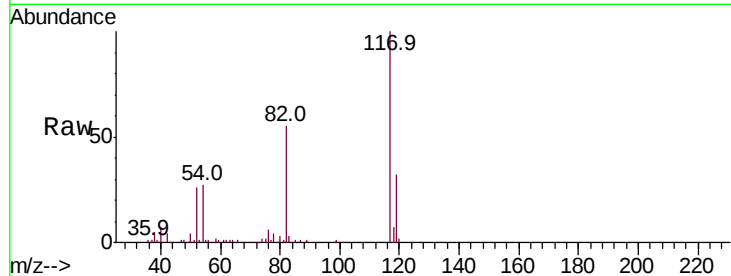




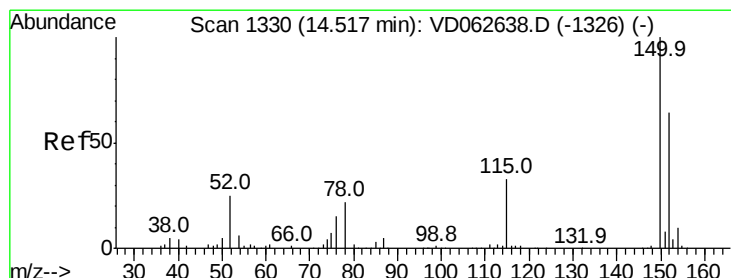
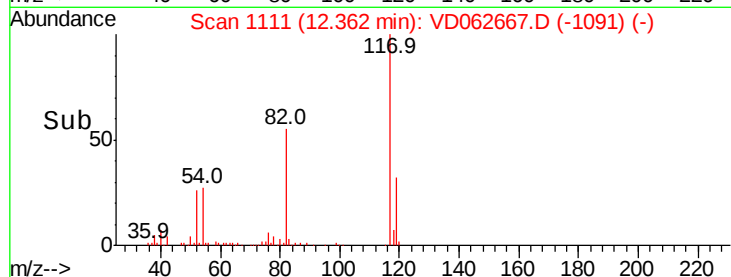
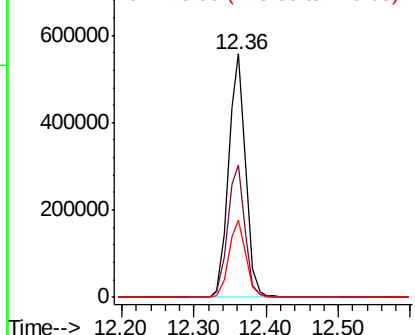
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. 0.00 min  
Lab File: VD062667.D  
Acq: 12 Jun 2019 11:49

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0612SBL01

Tot Ion:117 Resp: 911313  
Ion Ratio Lower Upper  
117 100  
82 54.6 48.7 73.1  
119 31.5 27.0 40.6

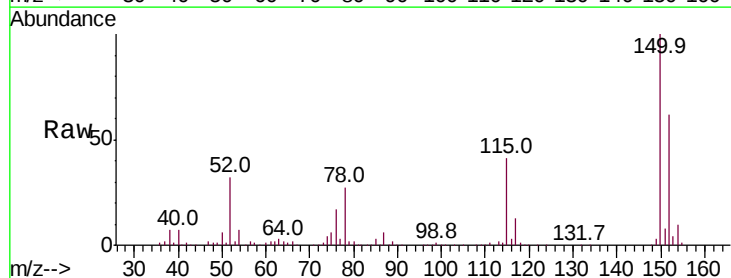


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1329  
Delta R.T. -0.01 min  
Lab File: VD062667.D  
Acq: 12 Jun 2019 11:49

Tgt Ion:152 Resp: 513333  
Ion Ratio Lower Upper  
152 100  
115 65.2 30.1 90.5  
150 160.2 0.0 314.0



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

