

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080219\  
 Data File : VD063308.D  
 Acq On : 2 Aug 2019 11:14  
 Operator : VA/AP  
 Sample : VD0802SBL01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0802SBL01

Quant Time: Aug 04 04:01:29 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D072919S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 30 03:04:50 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.03  | 168  | 1107630  | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.21  | 114  | 1475472  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 1235958  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 596976   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds |        |     |          |       |         |       |
|-----------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4   | 7.44   | 65  | 663716   | 54.00 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.00% |       |
| 35) Dibromofluoromethane    | 6.91   | 113 | 759091   | 60.26 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 120.52% |       |
| 50) Toluene-d8              | 10.39  | 98  | 1687579  | 59.86 | ug/l    | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 119.72% |       |
| 62) 4-Bromofluorobenzene    | 13.54  | 95  | 678558   | 52.82 | ug/l    | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.64% |       |

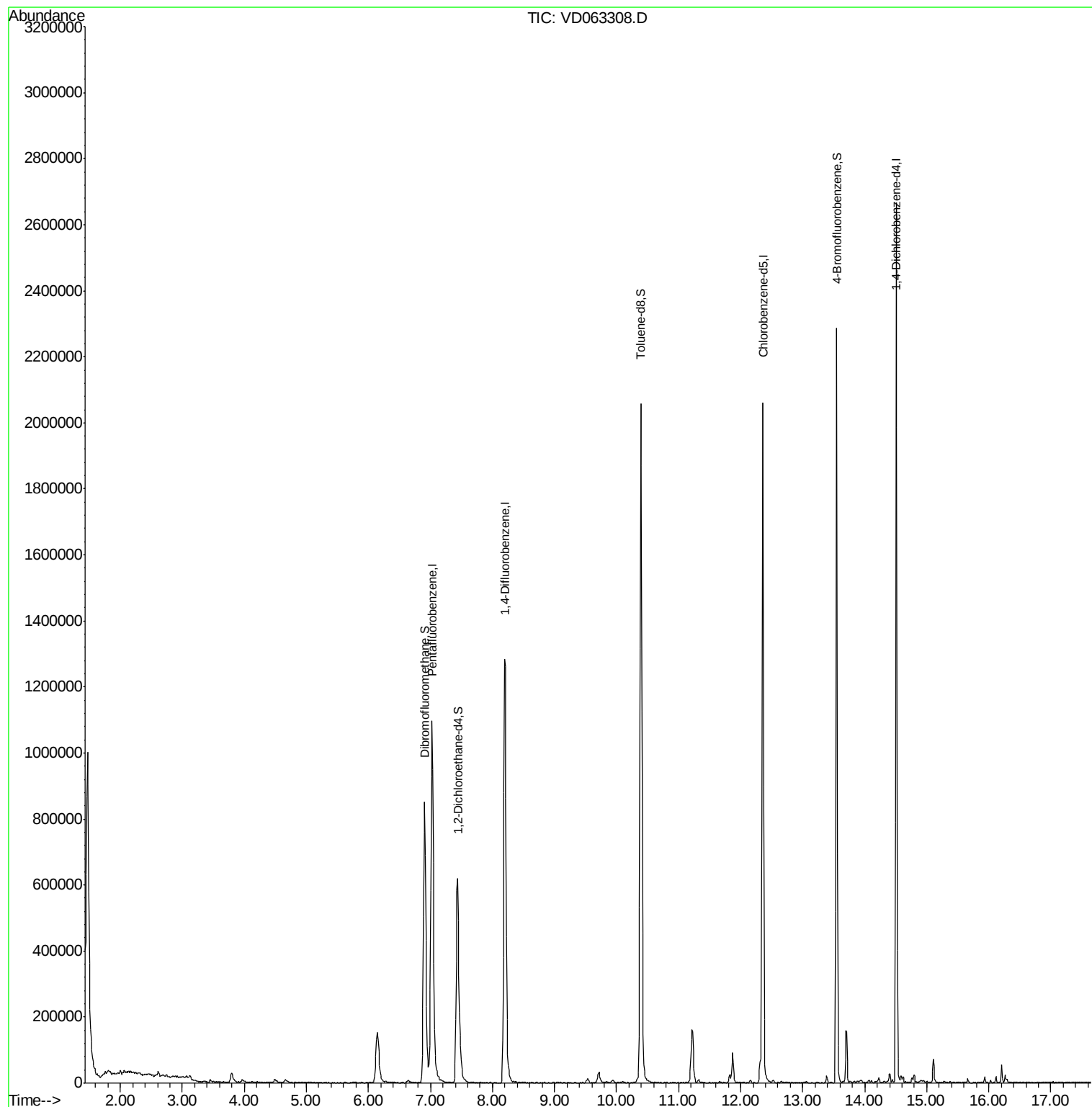
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

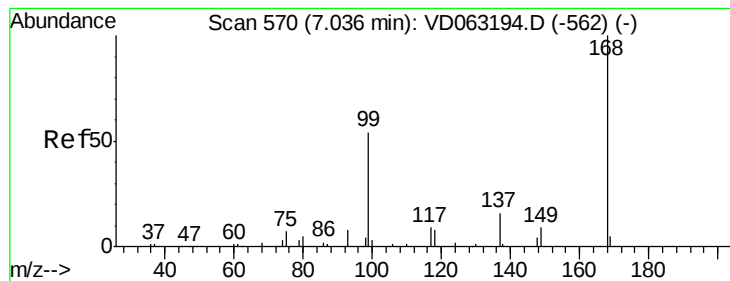
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080219\  
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Quant Title : SW846 8260  
QLast Update : Tue Jul 30 03:04:50 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.01 min

Lab File: VD063308.D

Acq: 2 Aug 2019 11:14

Instrument :

MSVOA\_D

ClientSampleId :

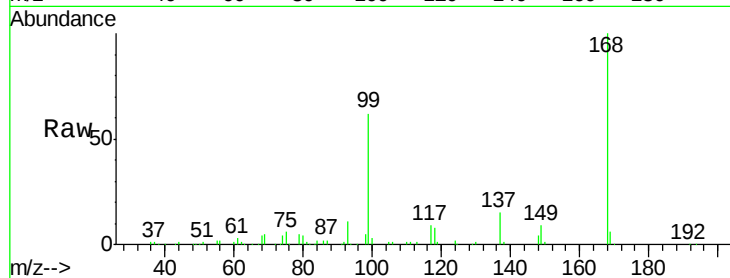
VD0802SBL01

Tot Ion:168 Resp: 1107630

Ion Ratio Lower Upper

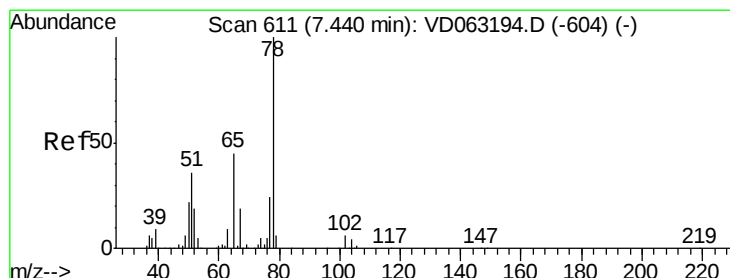
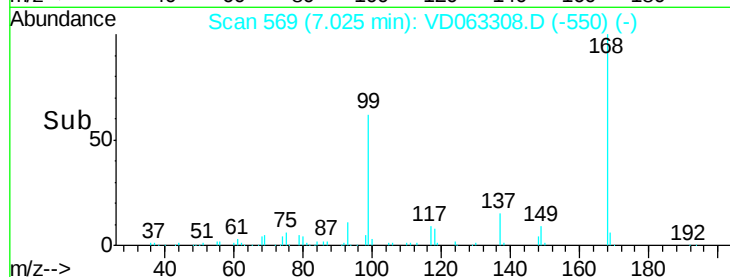
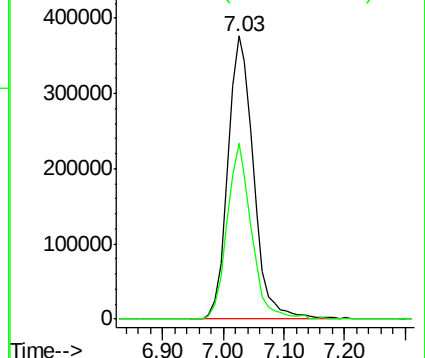
168 100

99 62.3 43.7 65.5



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: 54.004 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.00 min

Lab File: VD063308.D

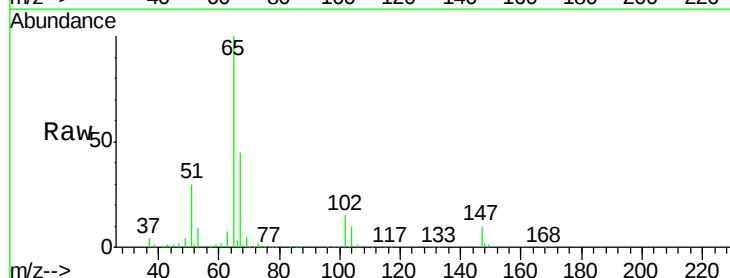
Acq: 2 Aug 2019 11:14

Tgt Ion: 65 Resp: 663716

Ion Ratio Lower Upper

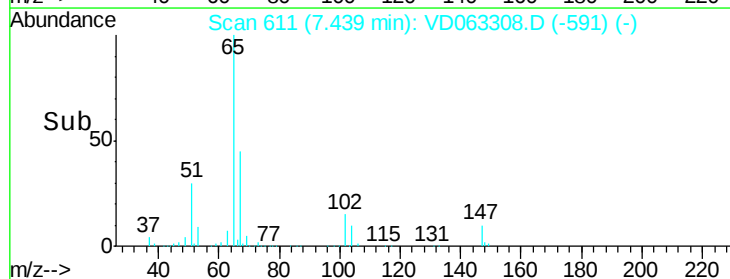
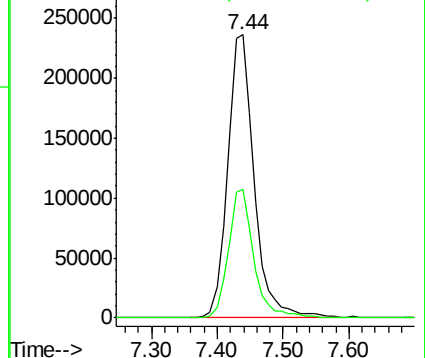
65 100

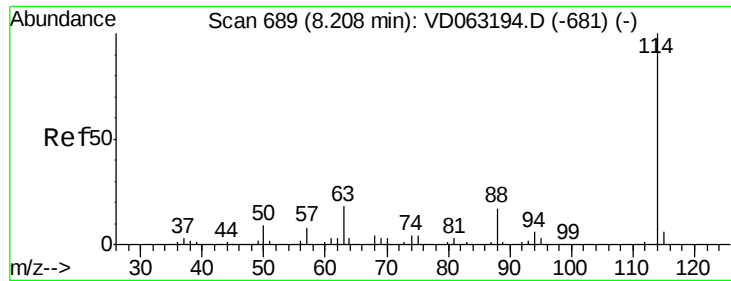
67 45.2 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

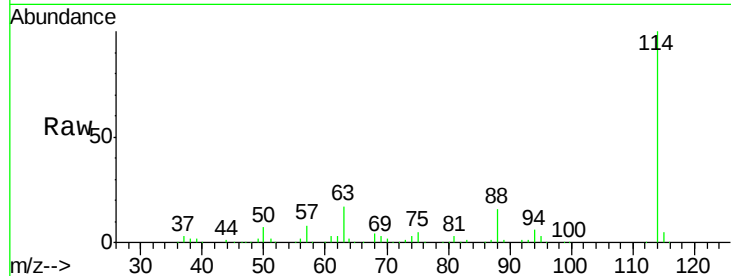




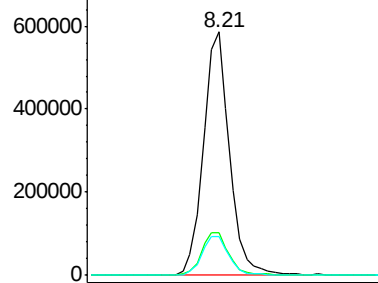
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.21 min Scan# 689  
 Delta R.T. -0.00 min  
 Lab File: VD063308.D  
 Acq: 2 Aug 2019 11:14

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0802SBL01

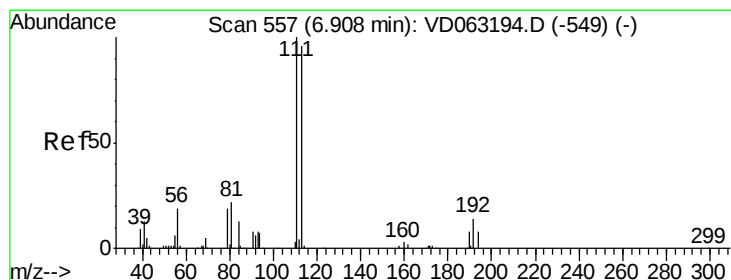
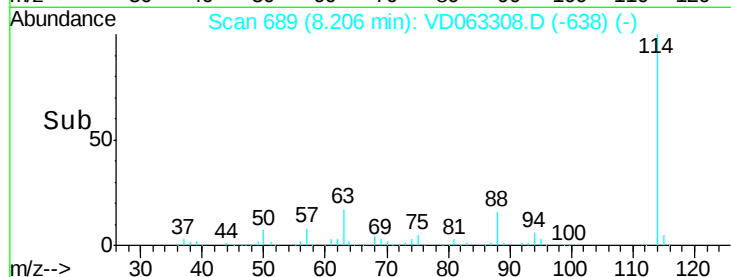
Tot Ion:114 Resp: 1475472  
 Ion Ratio Lower Upper  
 114 100  
 63 17.4 0.0 35.2  
 88 16.1 0.0 34.6



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

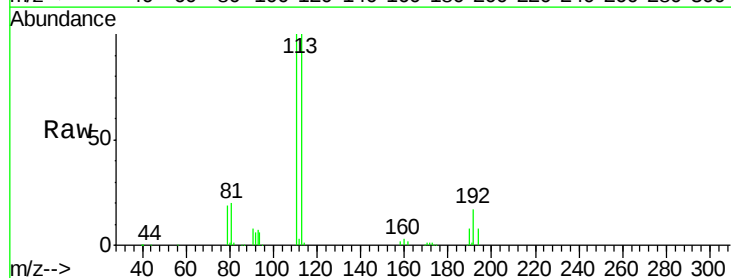


Time-->

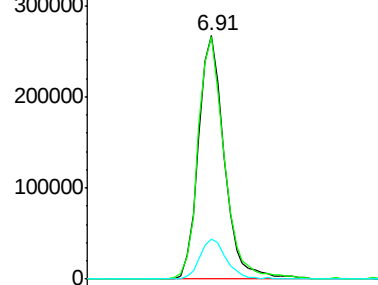


#35  
 Dibromofluoromethane  
 Concen: 60.258 ug/l  
 RT: 6.91 min Scan# 557  
 Delta R.T. -0.00 min  
 Lab File: VD063308.D  
 Acq: 2 Aug 2019 11:14

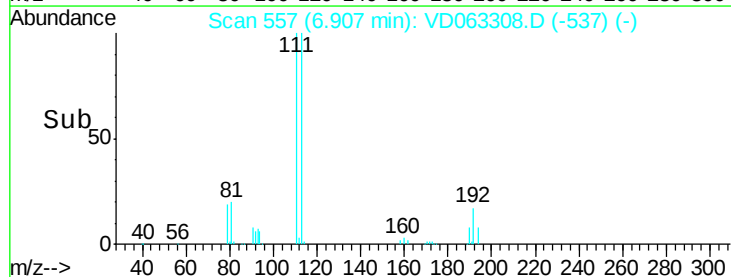
Tgt Ion:113 Resp: 759091  
 Ion Ratio Lower Upper  
 113 100  
 111 99.6 83.2 124.8  
 192 16.7 11.8 17.8

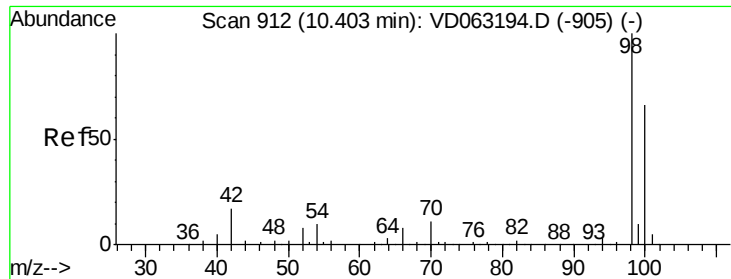


Abundance Ion 112.90 (112.60 to 113.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 191.80 (191.50 to 192.50): V



Time-->





#50

Toluene-d8

Concen: 59.858 ug/l

RT: 10.39 min Scan# 911

Delta R.T. -0.01 min

Lab File: VD063308.D

Acq: 2 Aug 2019 11:14

Instrument :

MSVOA\_D

ClientSampleId :

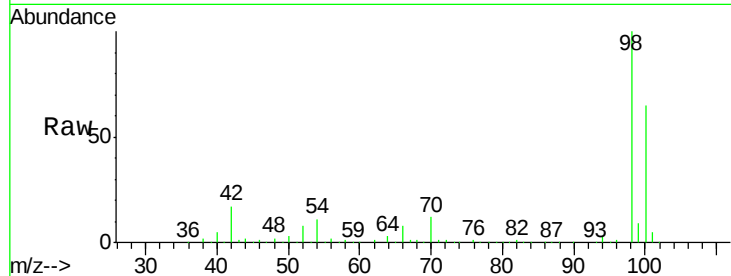
VD0802SBL01

Tot Ion: 98 Resp: 1687579

Ion Ratio Lower Upper

98 100

100 65.1 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VD063194.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD063194.D (-905) (-)

10.39

800000

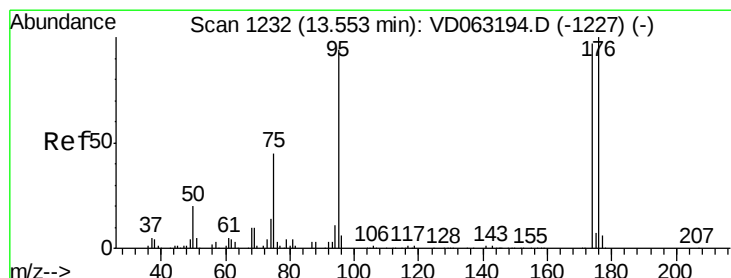
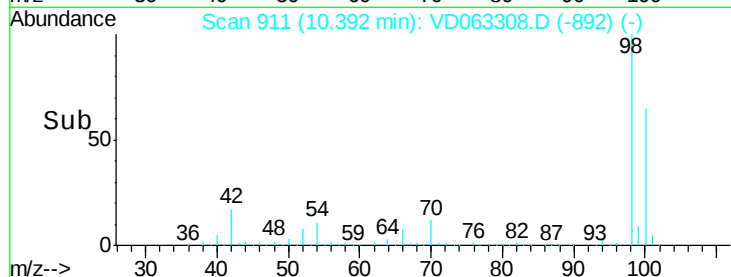
600000

400000

200000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 52.817 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VD063308.D

Acq: 2 Aug 2019 11:14

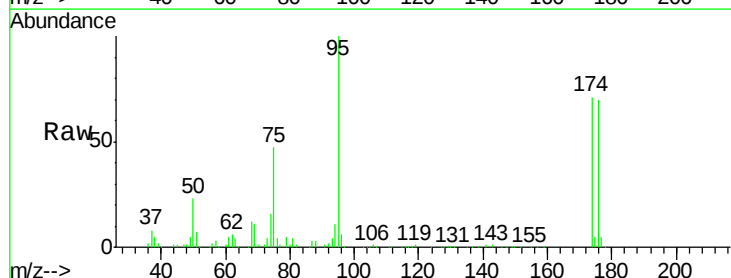
Tgt Ion: 95 Resp: 678558

Ion Ratio Lower Upper

95 100

174 70.7 0.0 205.4

176 70.0 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): VD063194.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD063194.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD063194.D (-1227) (-)

13.54

600000

500000

400000

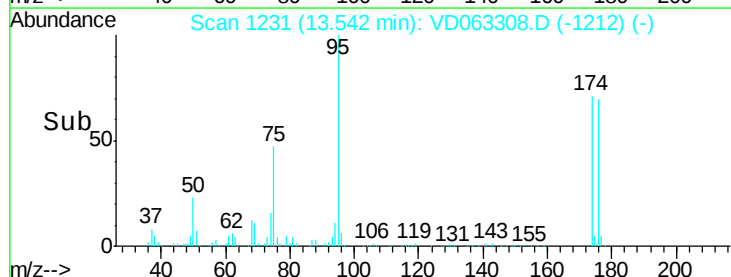
300000

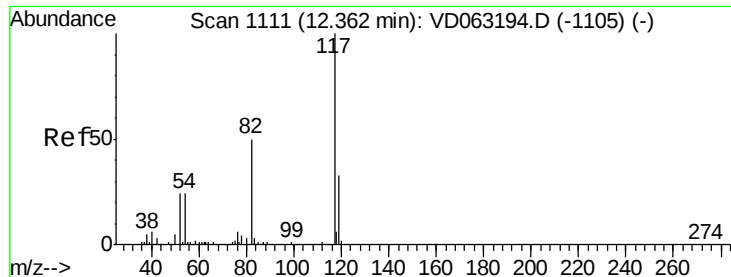
200000

100000

0

Time-->

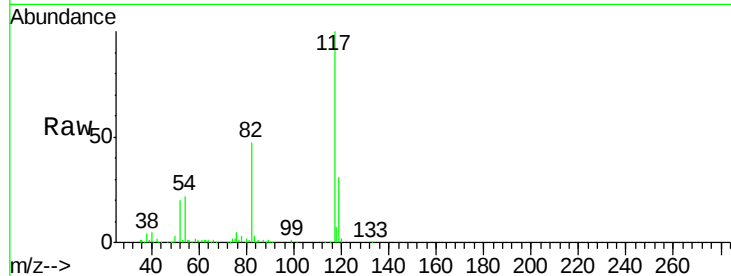




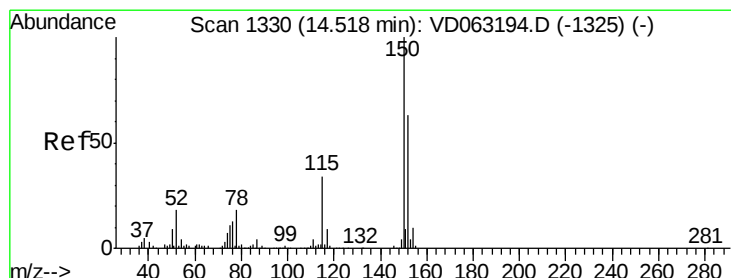
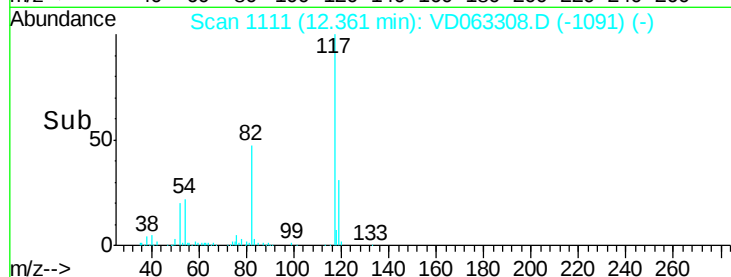
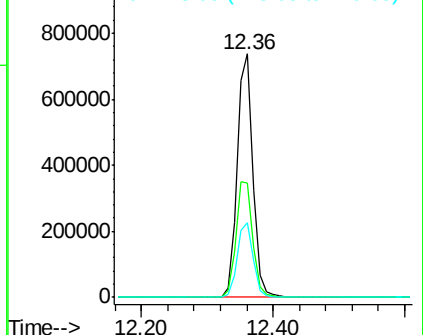
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1111  
Delta R.T. -0.00 min  
Lab File: VD063308.D  
Acq: 2 Aug 2019 11:14

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0802SBL01

Tot Ion:117 Resp: 1235958  
Ion Ratio Lower Upper  
117 100  
82 47.1 40.1 60.1  
119 30.8 26.5 39.7

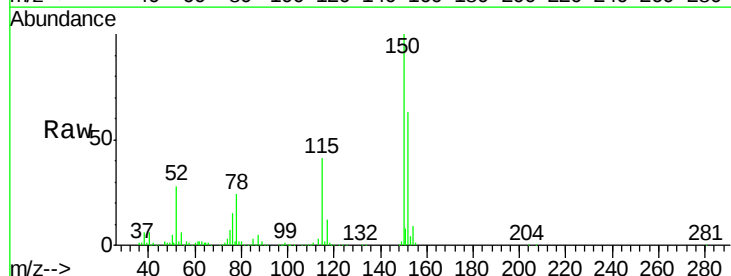


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1329  
Delta R.T. -0.01 min  
Lab File: VD063308.D  
Acq: 2 Aug 2019 11:14

Tgt Ion:152 Resp: 596976  
Ion Ratio Lower Upper  
152 100  
115 64.4 27.5 82.4  
150 158.8 0.0 320.6



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

