

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071619\  
 Data File : VD063112.D  
 Acq On : 16 Jul 2019 17:50  
 Operator : VA/AP  
 Sample : K3623-05  
 Misc : 6.21g/5ml/MSVOA D/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EO-02-071519-C

Quant Time: Jul 17 08:23:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D071519S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 16 08:11:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.03  | 168  | 504418   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.20  | 114  | 659747   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 436888   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 170116   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 295020   | 46.95 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.90% |          |
| 35) Dibromofluoromethane    | 6.90  | 113  | 312808   | 47.60 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.20% |          |
| 50) Toluene-d8              | 10.40 | 98   | 545397   | 38.64 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 77.28% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 204273   | 31.28 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 62.56% |          |

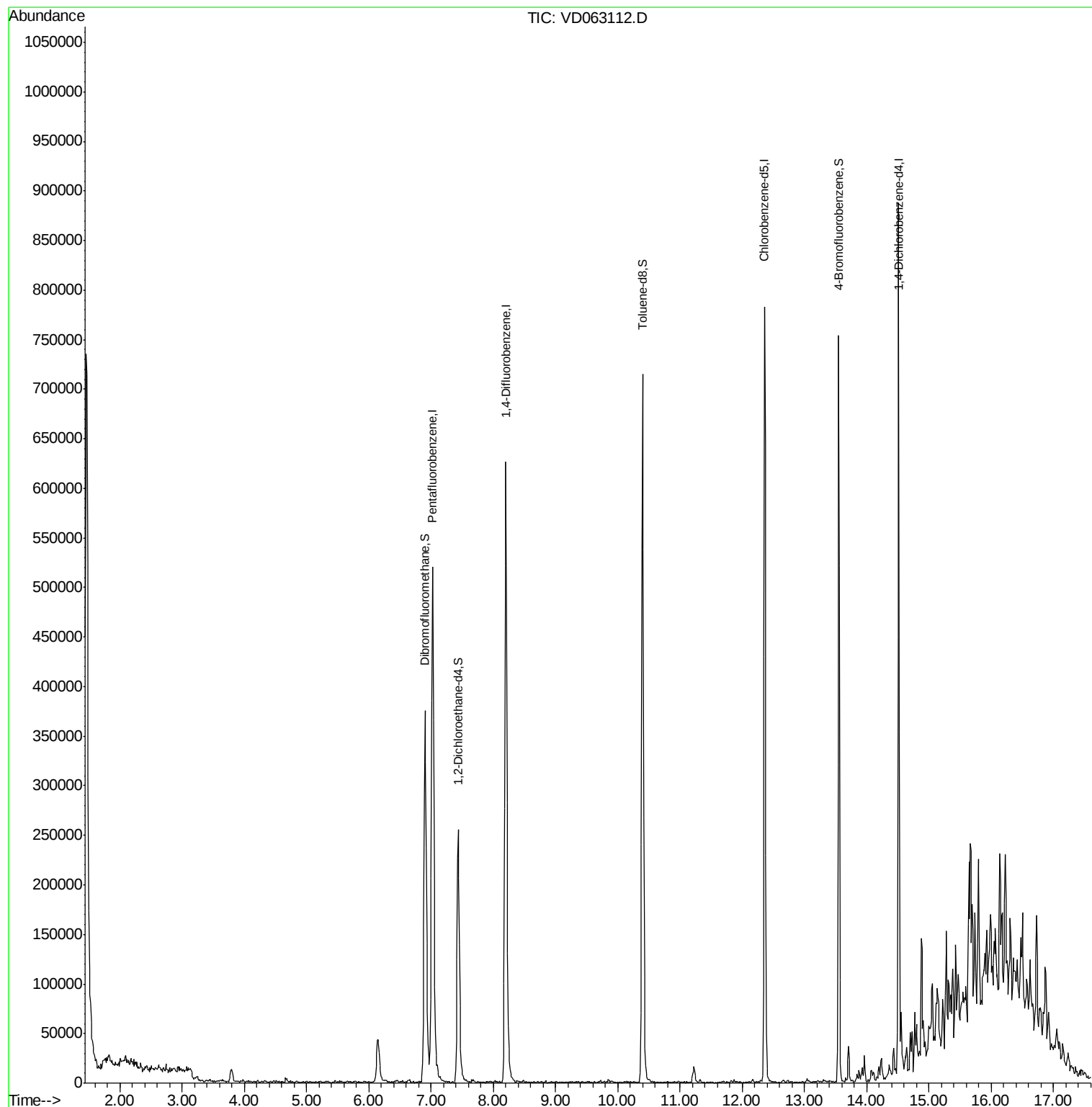
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

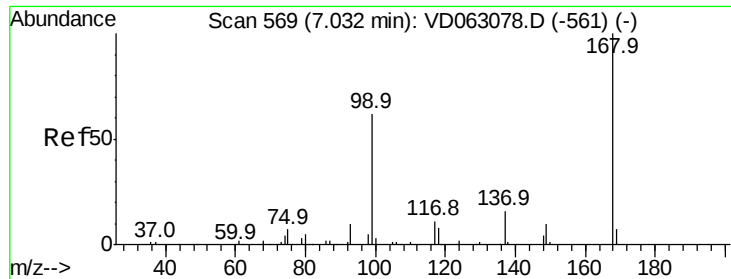
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD071619\  
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Quant Title : SW846 8260  
QLast Update : Tue Jul 16 08:11:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.00 min

Lab File: VD063112.D

Acq: 16 Jul 2019 17:50

Instrument :

MSVOA\_D

ClientSampleId :

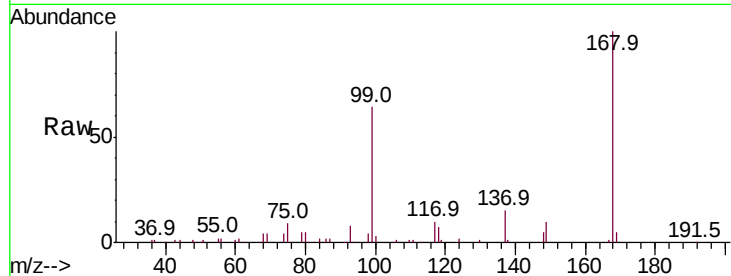
EO-02-071519-C

Tot Ion:168 Resp: 504418

Ion Ratio Lower Upper

168 100

99 63.9 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.03

200000

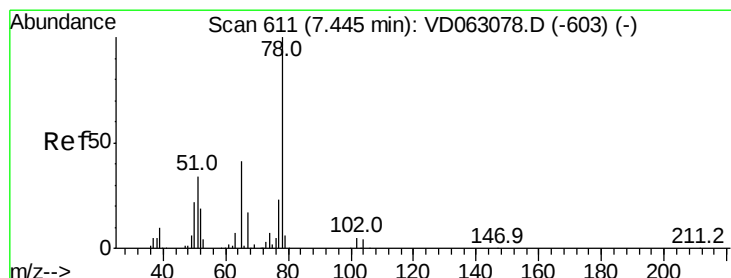
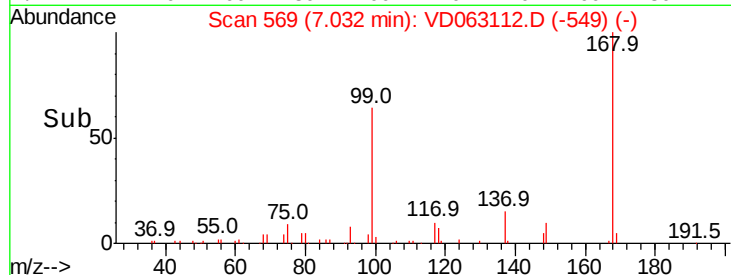
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 46.952 ug/l

RT: 7.44 min Scan# 610

Delta R.T. -0.01 min

Lab File: VD063112.D

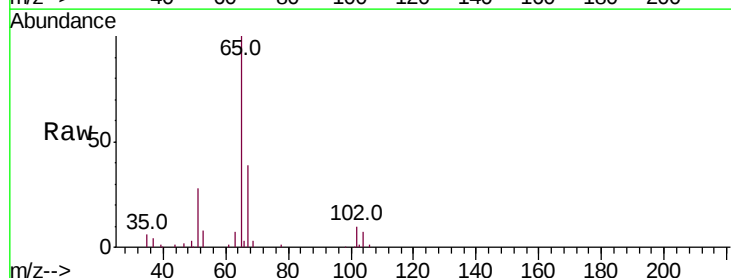
Acq: 16 Jul 2019 17:50

Tgt Ion: 65 Resp: 295020

Ion Ratio Lower Upper

65 100

67 38.5 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.44

120000

100000

80000

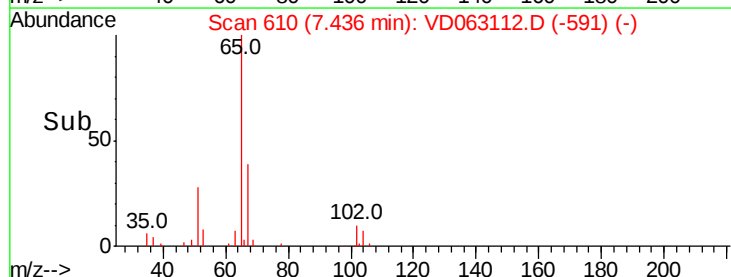
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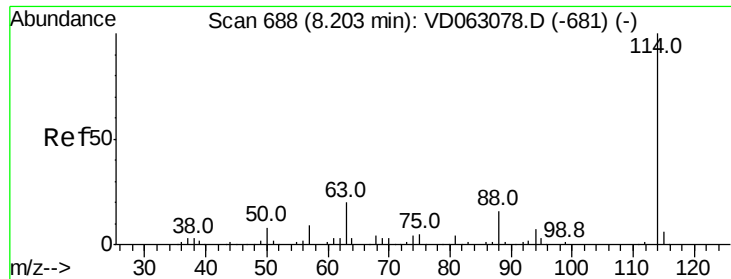
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20000

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Time-->

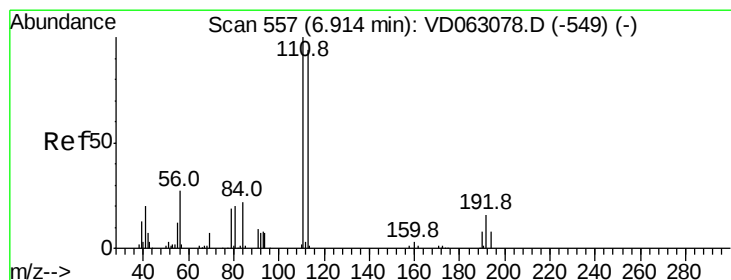
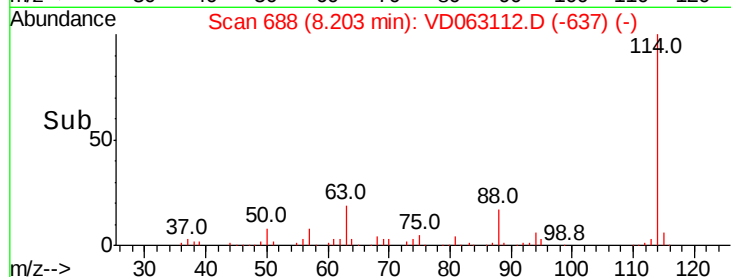
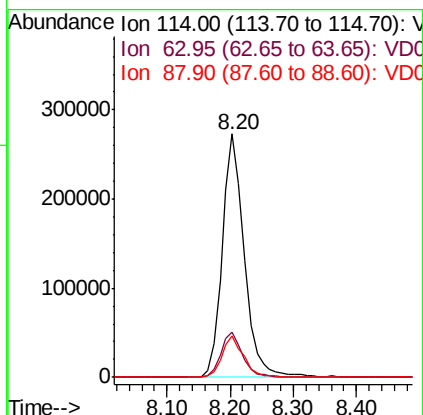
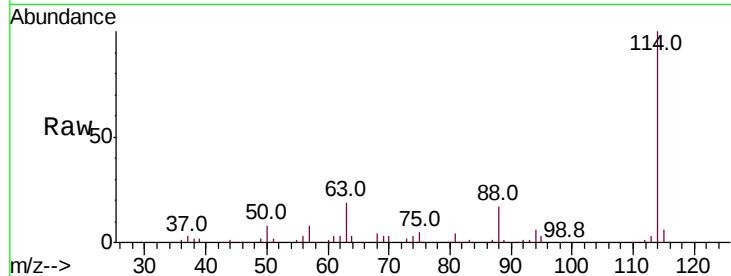




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.20 min Scan# 688  
 Delta R.T. -0.00 min  
 Lab File: VD063112.D  
 Acq: 16 Jul 2019 17:50

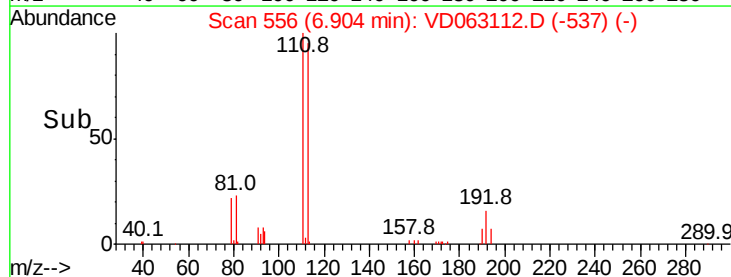
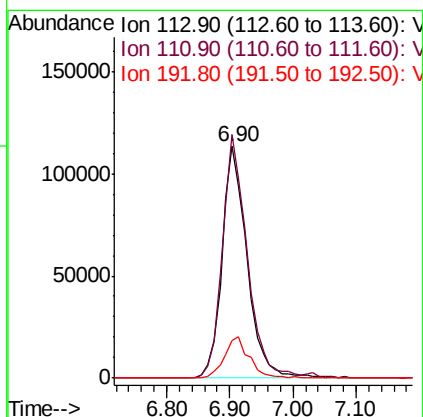
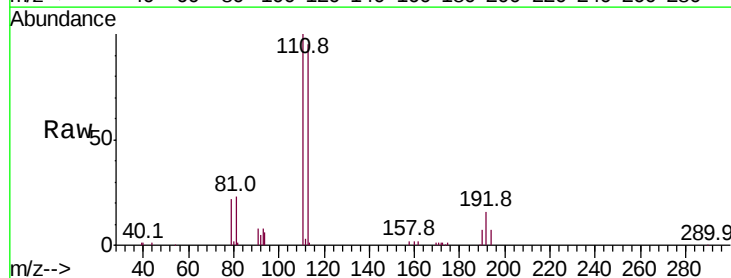
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 EO-02-071519-C

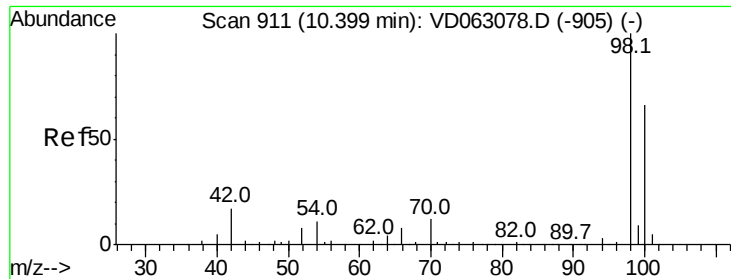
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 18.6  | 0.0   | 40.6  |
| 88      | 17.0  | 0.0   | 32.6  |



#35  
 Dibromofluoromethane  
 Concen: 47.603 ug/l  
 RT: 6.90 min Scan# 556  
 Delta R.T. -0.01 min  
 Lab File: VD063112.D  
 Acq: 16 Jul 2019 17:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.9 | 84.8  | 127.2 |
| 192     | 16.3  | 13.4  | 20.0  |





#50

Toluene-d8

Concen: 38.639 ug/l

RT: 10.40 min Scan# 911

Delta R.T. -0.00 min

Lab File: VD063112.D

Acq: 16 Jul 2019 17:50

Instrument :

MSVOA\_D

ClientSampleId :

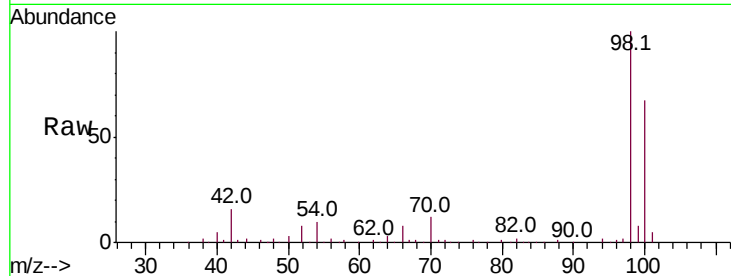
EO-02-071519-C

Tot Ion: 98 Resp: 545397

Ion Ratio Lower Upper

98 100

100 67.0 53.5 80.3



Abundance Ion 98.05 (97.75 to 98.75): VD063078.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD063078.D (-905) (-)

10.40

250000

200000

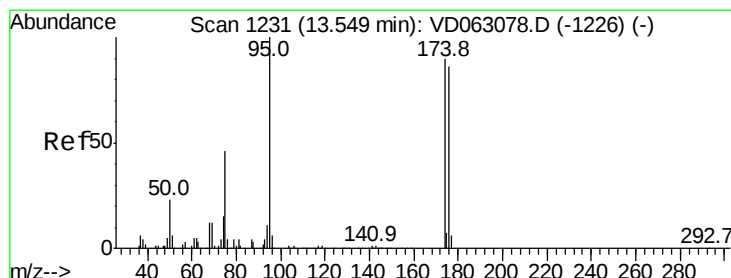
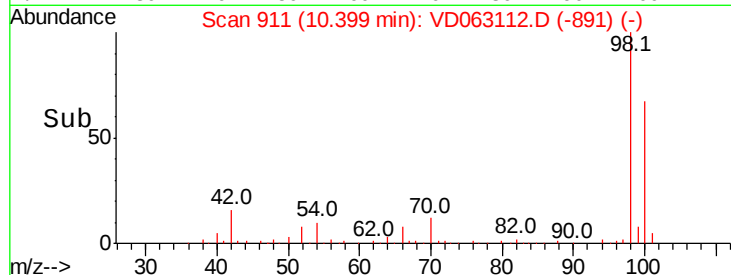
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 31.282 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VD063112.D

Acq: 16 Jul 2019 17:50

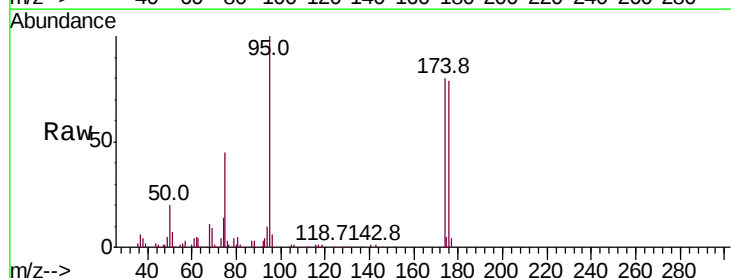
Tgt Ion: 95 Resp: 204273

Ion Ratio Lower Upper

95 100

174 80.1 0.0 180.6

176 78.7 0.0 172.2



Abundance Ion 95.00 (94.70 to 95.70): VD063078.D (-1226) (-)

Ion 173.90 (173.60 to 174.60): VD063078.D (-1226) (-)

Ion 175.90 (175.60 to 176.60): VD063078.D (-1226) (-)

13.55

200000

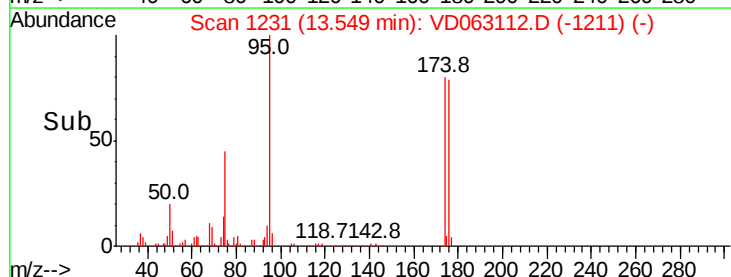
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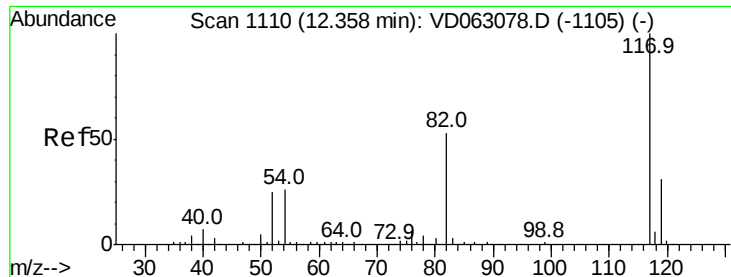
100000

50000

0

Time-->

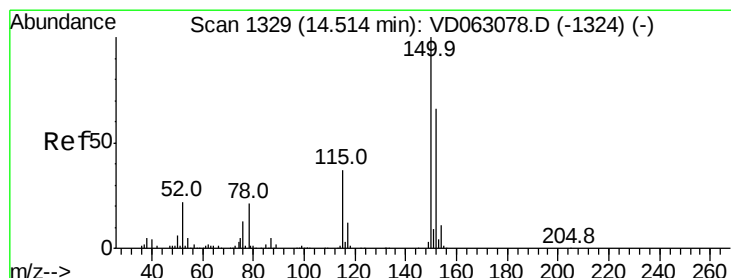
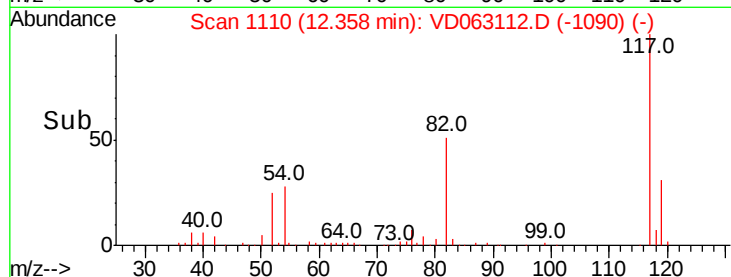
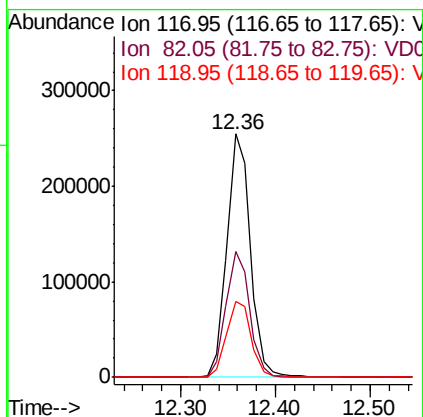
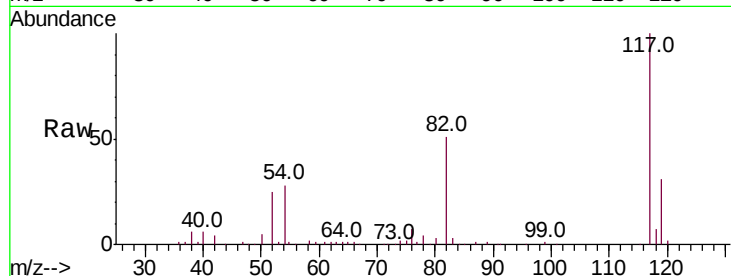




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.36 min Scan# 1110  
Delta R.T. -0.00 min  
Lab File: VD063112.D  
Acq: 16 Jul 2019 17:50

Instrument :  
MSVOA\_D  
ClientSampleId :  
EO-02-071519-C

Tot Ion:117 Resp: 436888  
Ion Ratio Lower Upper  
117 100  
82 51.4 42.3 63.5  
119 31.0 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.51 min Scan# 1329  
Delta R.T. -0.00 min  
Lab File: VD063112.D  
Acq: 16 Jul 2019 17:50

Tgt Ion:152 Resp: 170116  
Ion Ratio Lower Upper  
152 100  
115 56.3 28.9 86.8  
150 152.8 0.0 313.8

