

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\  
 Data File : VD063162.D  
 Acq On : 19 Jul 2019 19:08  
 Operator : VA/AP  
 Sample : K3618-05RE  
 Misc : 6.20g/5ml/MSVOA D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HD-01-071719RE

Quant Time: Jul 20 05:44:40 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      | 7.04  | 168  | 685662   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 918008   | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 12.37 | 117  | 620348   | 50.00 | ug/l  | 0.01     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 235098   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4   | 7.45   | 65  | 411492   | 48.18 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.36% |      |
| 35) Dibromofluoromethane    | 6.92   | 113 | 435506   | 47.63 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.26% |      |
| 50) Toluene-d8              | 10.41  | 98  | 783945   | 39.91 | ug/l   | 0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 79.82% |      |
| 62) 4-Bromofluorobenzene    | 13.55  | 95  | 267444   | 29.43 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 58.86% |      |

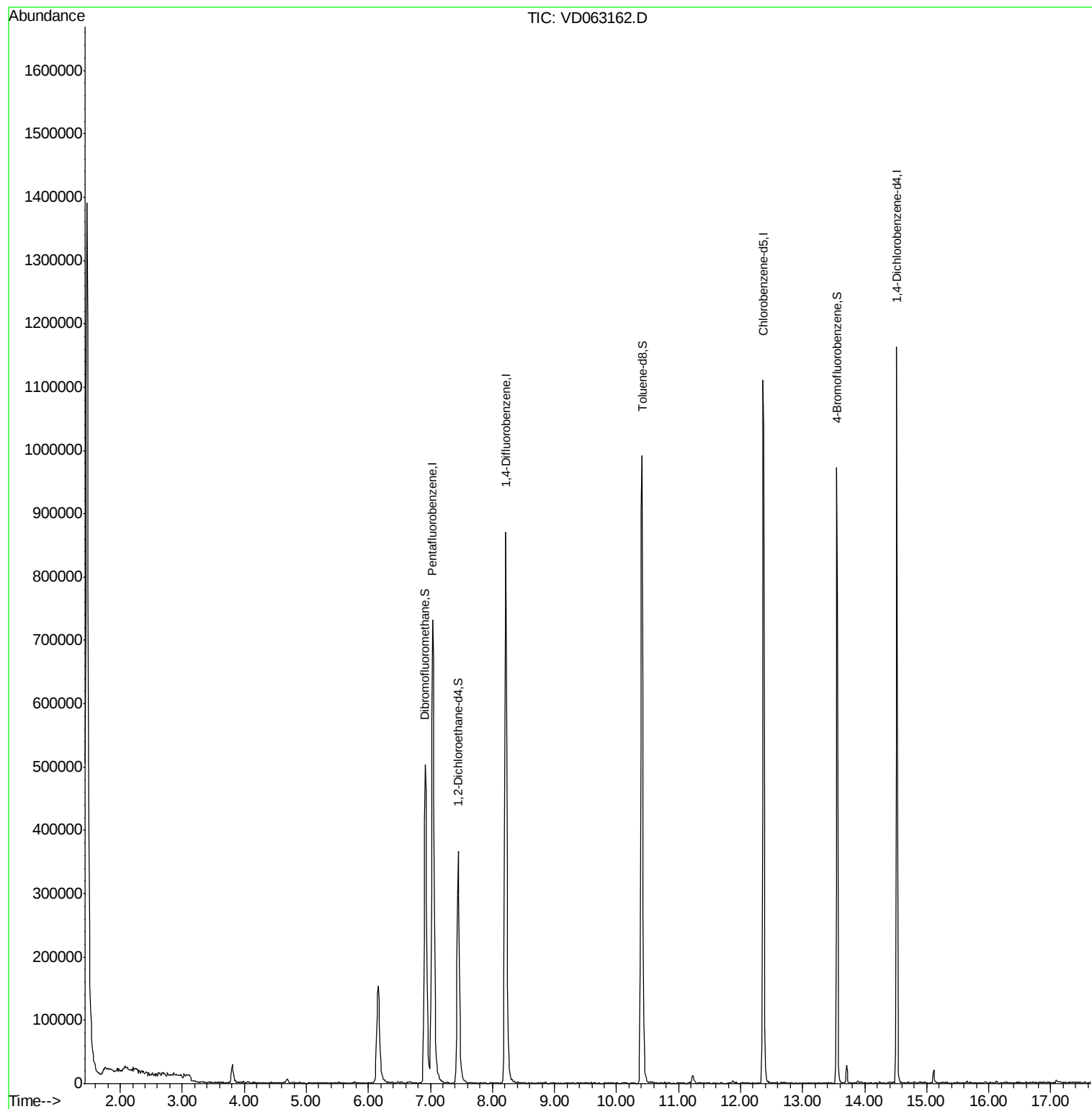
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

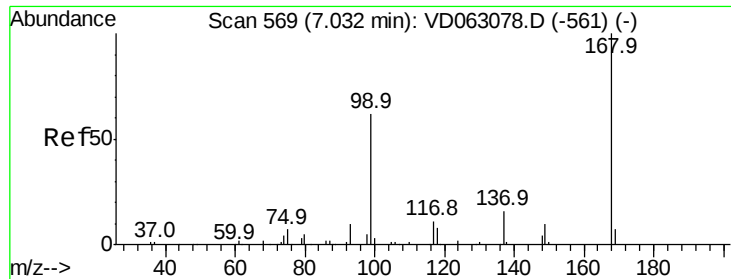
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD071919\  
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MSVOA\_D  
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HD-01-071719RE

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D071519S.M  
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: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

Instrument :

MSVOA\_D

ClientSampleId :

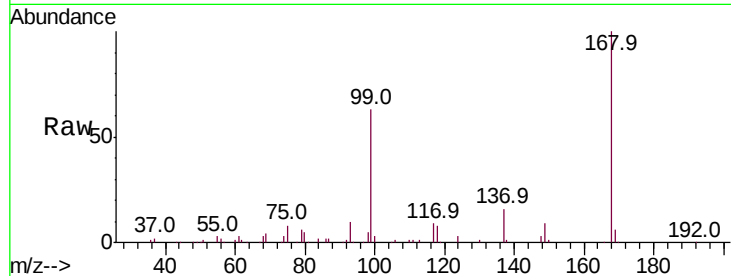
HD-01-071719RE

Tot Ion:168 Resp: 685662

Ion Ratio Lower Upper

168 100

99 62.5 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

250000

200000

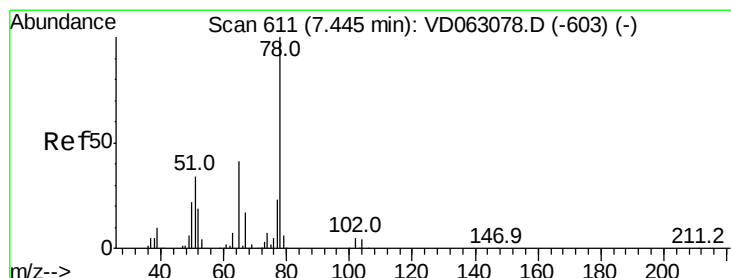
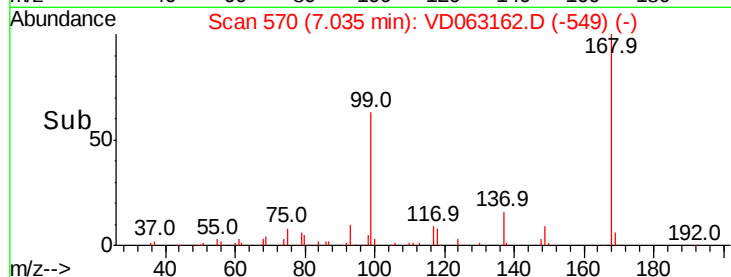
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 48.177 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD063162.D

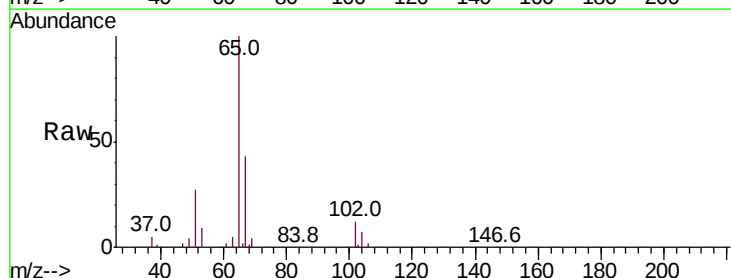
Acq: 19 Jul 2019 19:08

Tgt Ion: 65 Resp: 411492

Ion Ratio Lower Upper

65 100

67 42.9 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

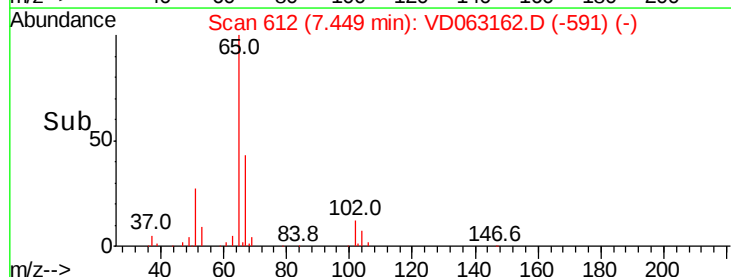
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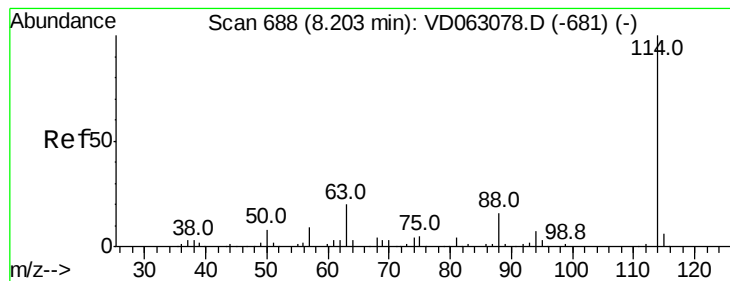
100000

50000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.01 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

Instrument :

MSVOA\_D

ClientSampleId :

HD-01-071719RE

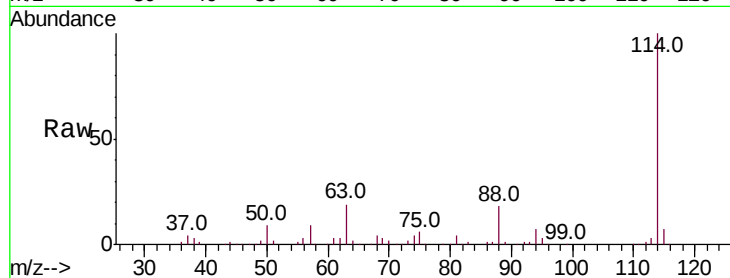
Tot Ion:114 Resp: 918008

Ion Ratio Lower Upper

114 100

63 19.0 0.0 40.6

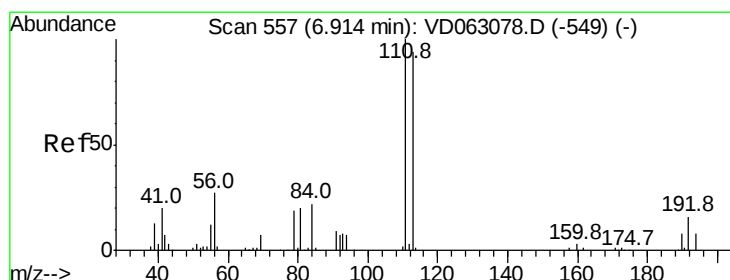
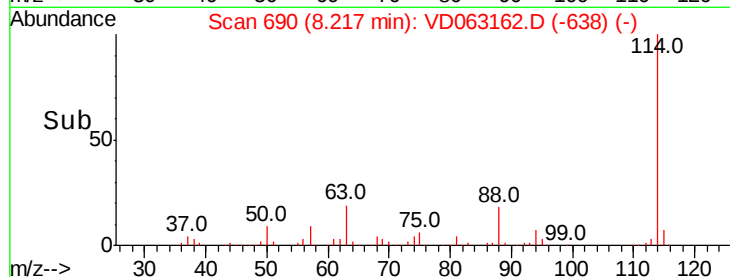
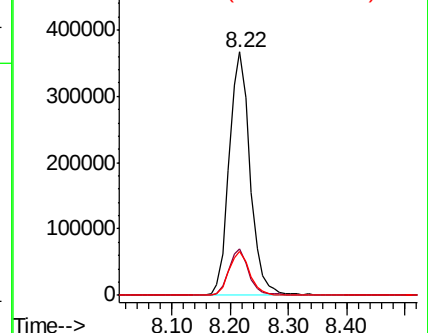
88 17.9 0.0 32.6



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



#35

Dibromofluoromethane

Concen: 47.630 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.00 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

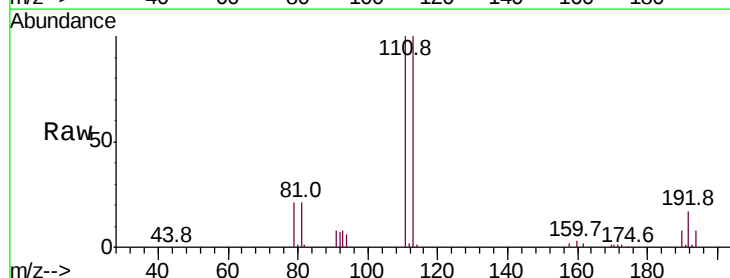
Tgt Ion:113 Resp: 435506

Ion Ratio Lower Upper

113 100

111 99.9 84.8 127.2

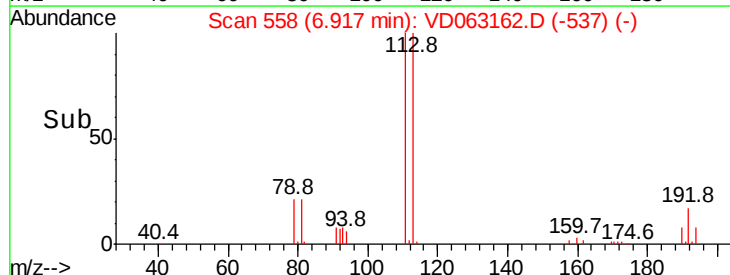
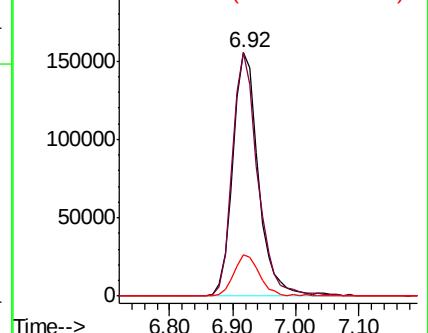
192 17.1 13.4 20.0

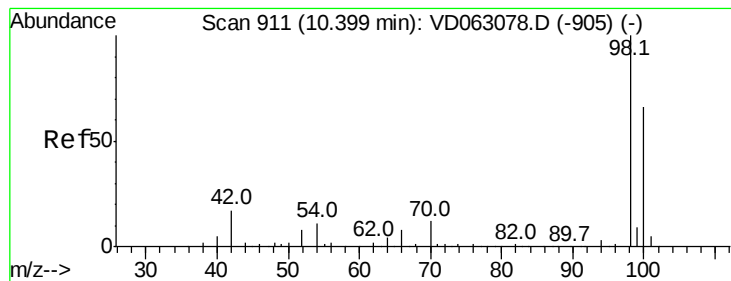


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#50

Toluene-d8

Concen: 39.915 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

Instrument :

MSVOA\_D

ClientSampleId :

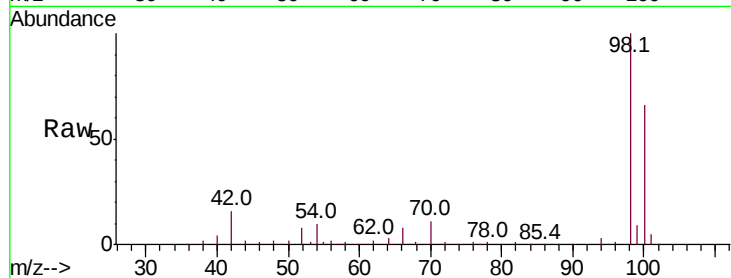
HD-01-071719RE

Tot Ion: 98 Resp: 783945

Ion Ratio Lower Upper

98 100

100 66.0 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) (-)

10.41

400000

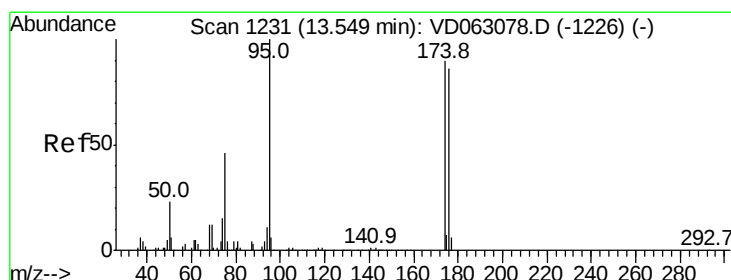
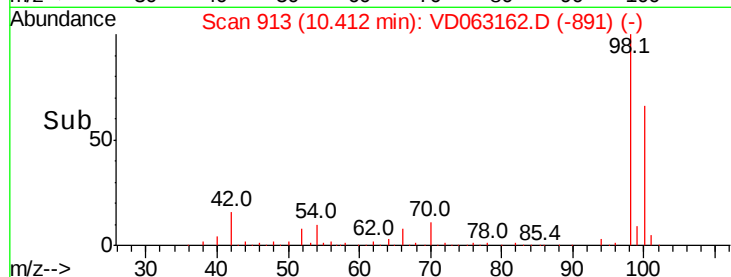
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 29.434 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063162.D

Acq: 19 Jul 2019 19:08

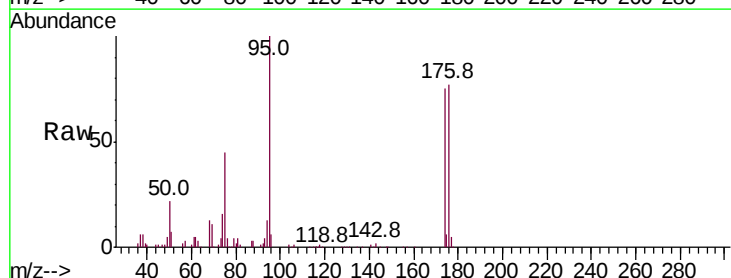
Tgt Ion: 95 Resp: 267444

Ion Ratio Lower Upper

95 100

174 75.3 0.0 180.6

176 76.8 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) (-)

250000

200000

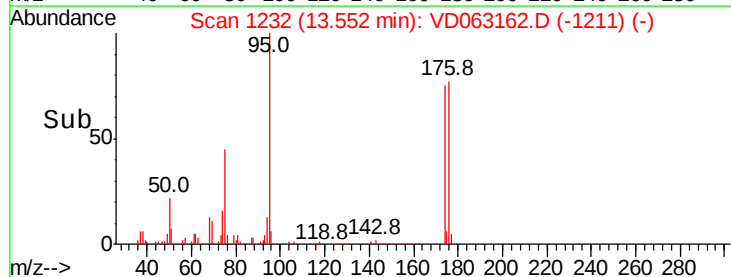
150000

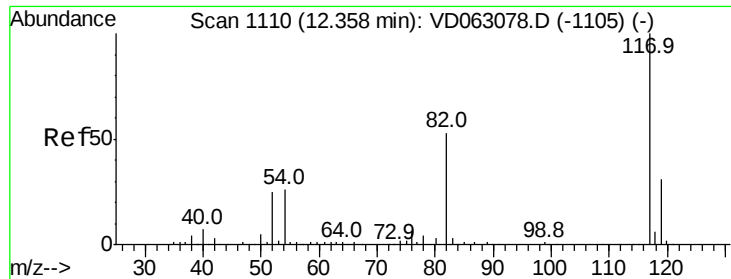
100000

50000

0

Time-->

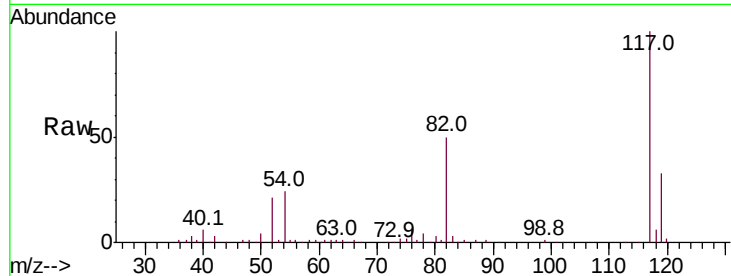




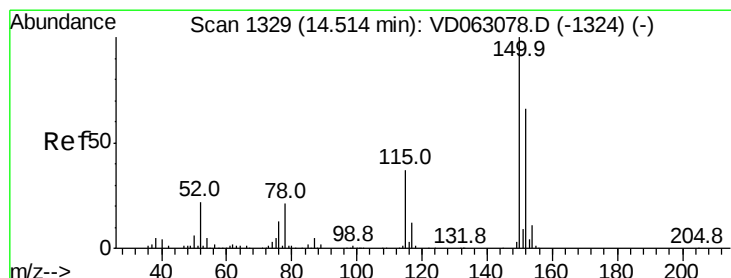
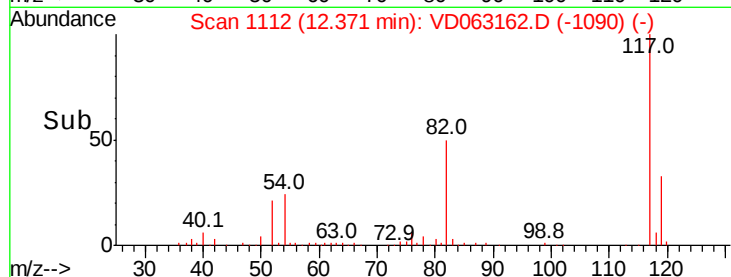
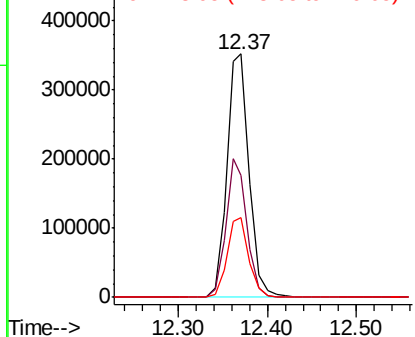
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. 0.01 min  
Lab File: VD063162.D  
Acq: 19 Jul 2019 19:08

Instrument :  
MSVOA\_D  
ClientSampleId :  
HD-01-071719RE

Tot Ion:117 Resp: 620348  
Ion Ratio Lower Upper  
117 100  
82 49.9 42.3 63.5  
119 32.6 25.2 37.8

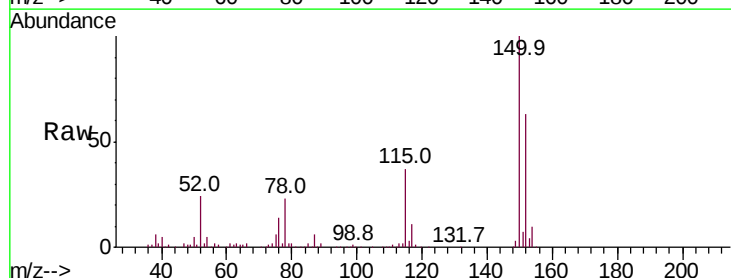


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.52 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VD063162.D  
Acq: 19 Jul 2019 19:08

Tgt Ion:152 Resp: 235098  
Ion Ratio Lower Upper  
152 100  
115 58.9 28.9 86.8  
150 159.4 0.0 313.8



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

