

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD051419\  
 Data File : VD062353.D  
 Acq On : 14 May 2019 18:20  
 Operator : FY/SY  
 Sample : K2757-01RE  
 Misc : 4.80g/5mL/MSVOA\_D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P021-SS008-1218-01RE

Quant Time: May 15 02:29:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 07 14:26:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.07  | 168  | 327135   | 50.00 | ug/l  | 0.05     |
| 34) 1,4-Difluorobenzene    | 8.24  | 114  | 515938   | 50.00 | ug/l  | 0.05     |
| 63) Chlorobenzene-d5       | 12.38 | 117  | 452419   | 50.00 | ug/l  | 0.03     |
| 72) 1,4-Dichlorobenzene-d4 | 14.53 | 152  | 218208   | 50.00 | ug/l  | 0.02     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 7.47   | 65  | 201774   | 66.37 | ug/l    | 0.05 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 132.74% |      |
| 35) Dibromofluoromethane    | 6.95   | 113 | 199901   | 46.70 | ug/l    | 0.06 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 93.40%  |      |
| 50) Toluene-d8              | 10.43  | 98  | 374780   | 36.31 | ug/l    | 0.03 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 72.62%  |      |
| 62) 4-Bromofluorobenzene    | 13.57  | 95  | 179258   | 43.25 | ug/l    | 0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.50%  |      |

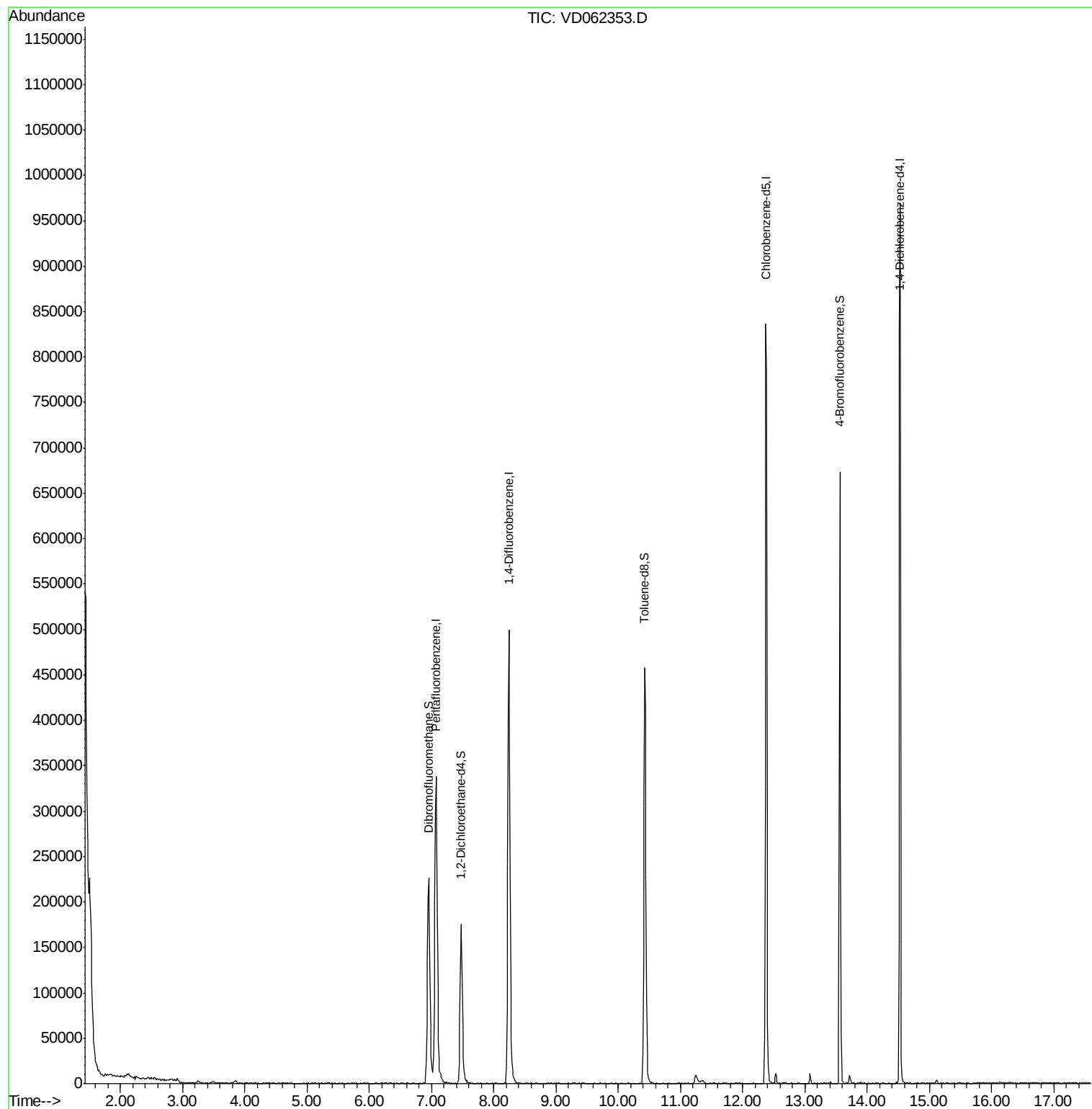
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D050719S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 07 14:26:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 574

Delta R.T. 0.05 min

Lab File: VD062353.D

Acq: 14 May 2019 18:20

Instrument :

MSVOA\_D

ClientSampleId :

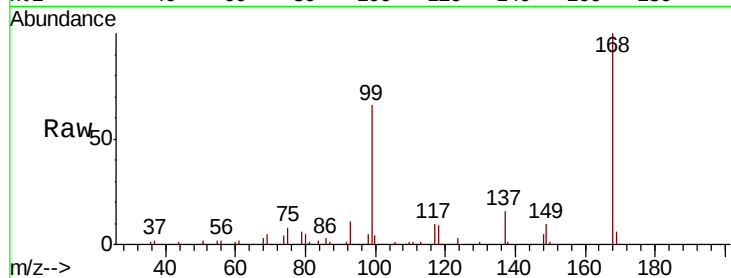
P021-SS008-1218-01RE

Tgt Ion:168 Resp: 327135

Ion Ratio Lower Upper

168 100

99 66.1 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.07

120000

100000

80000

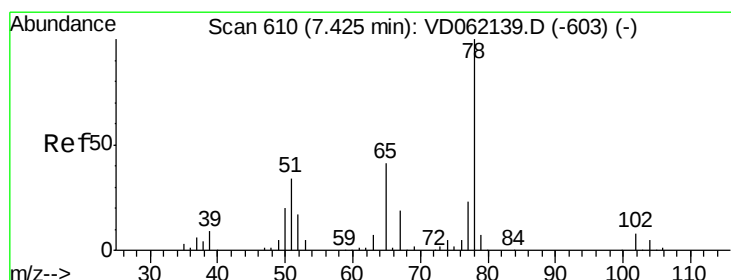
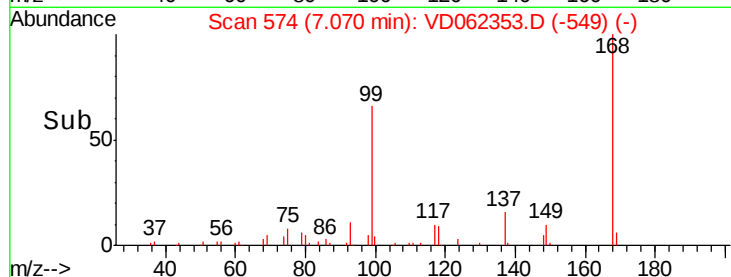
60000

40000

20000

0

Time--> 6.90 7.00 7.10 7.20



#33

1,2-Dichloroethane-d4

Concen: 66.371 ug/l

RT: 7.47 min Scan# 615

Delta R.T. 0.05 min

Lab File: VD062353.D

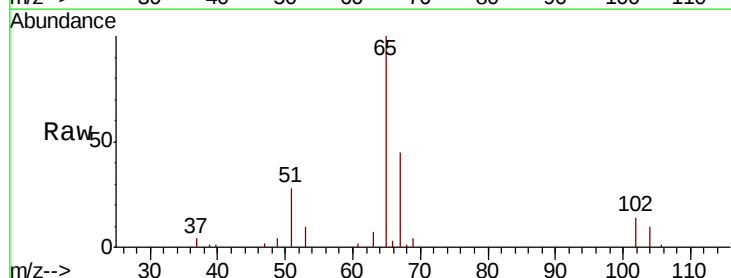
Acq: 14 May 2019 18:20

Tgt Ion: 65 Resp: 201774

Ion Ratio Lower Upper

65 100

67 45.5 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.47

80000

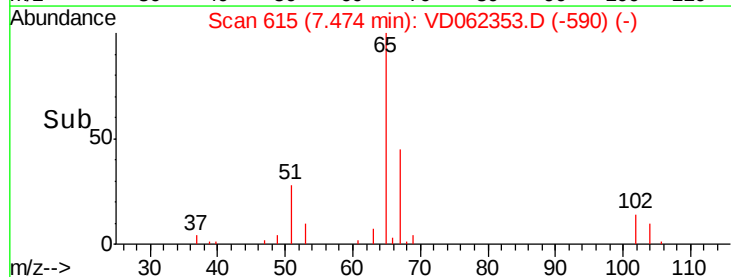
60000

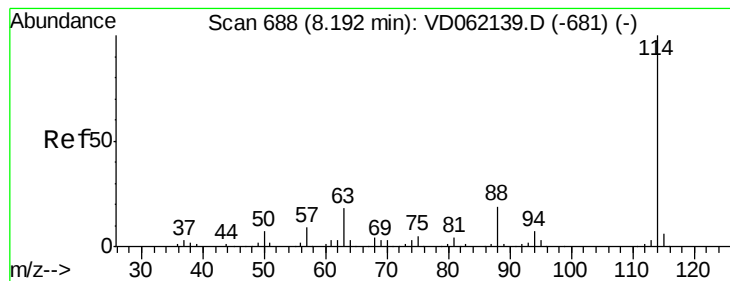
40000

20000

0

Time--> 7.30 7.40 7.50 7.60 7.70





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 693

Delta R.T. 0.05 min

Lab File: VD062353.D

Acq: 14 May 2019 18:20

Instrument :

MSVOA\_D

ClientSampleId :

P021-SS008-1218-01RE

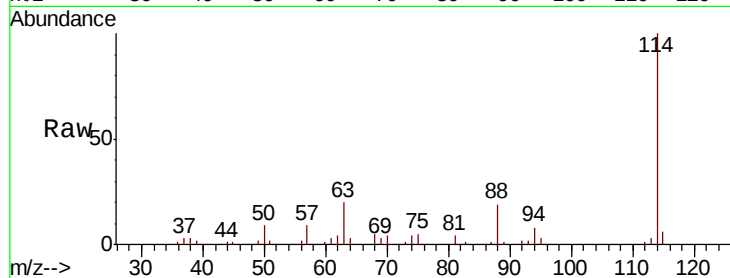
Tgt Ion:114 Resp: 515938

Ion Ratio Lower Upper

114 100

63 19.7 0.0 32.4

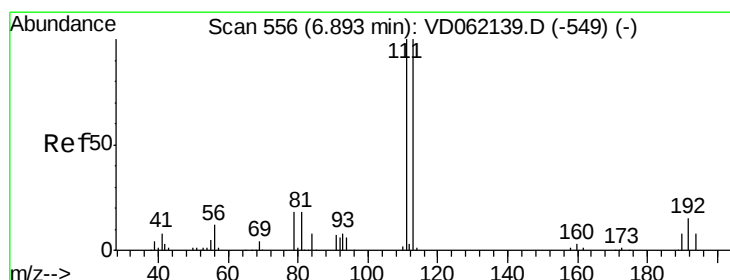
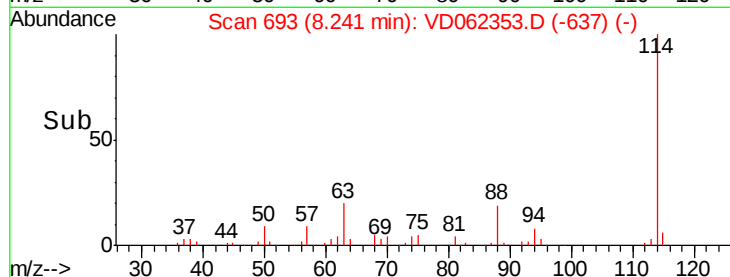
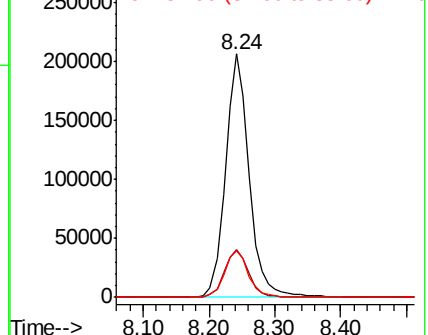
88 19.2 0.0 33.6



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: 46.697 ug/l

RT: 6.95 min Scan# 562

Delta R.T. 0.06 min

Lab File: VD062353.D

Acq: 14 May 2019 18:20

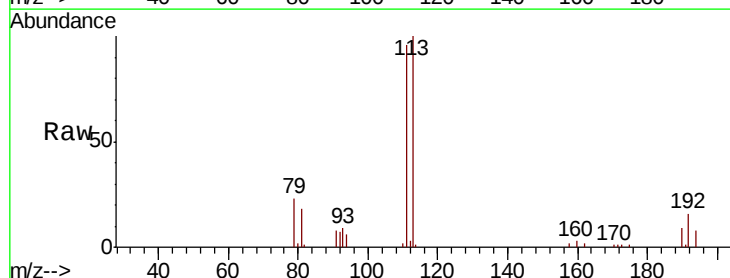
Tgt Ion:113 Resp: 199901

Ion Ratio Lower Upper

113 100

111 95.8 78.5 117.7

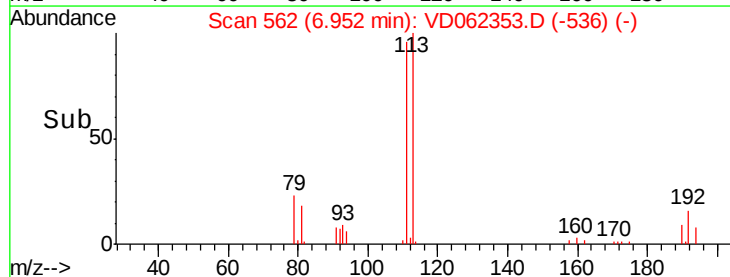
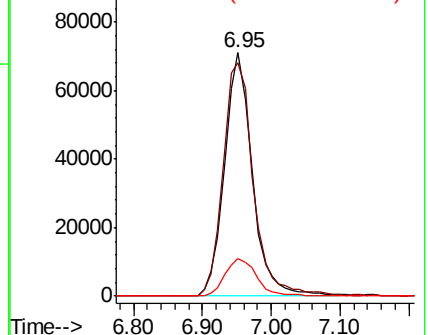
192 15.5 13.0 19.4

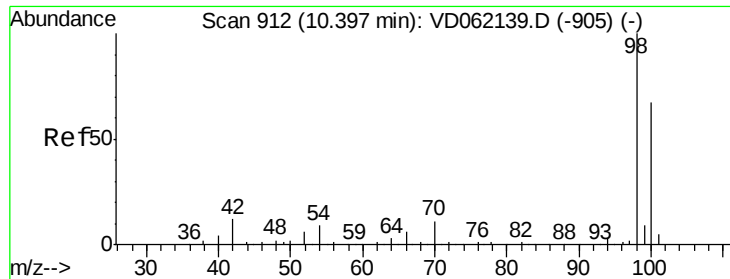


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

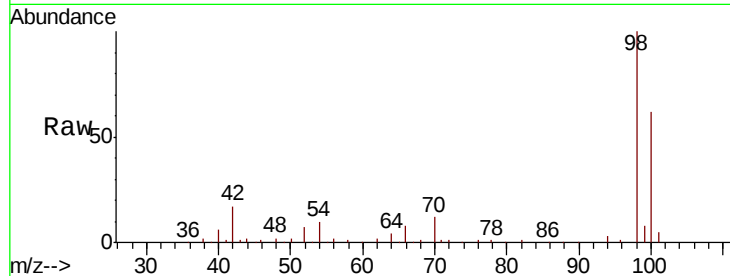




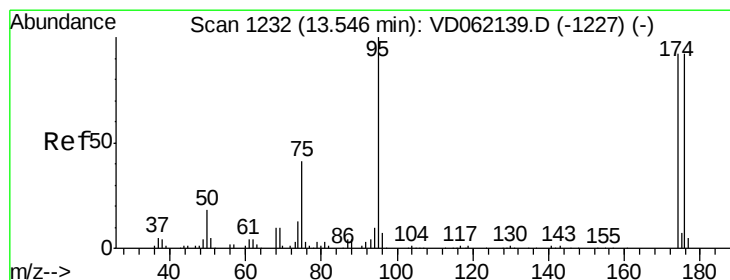
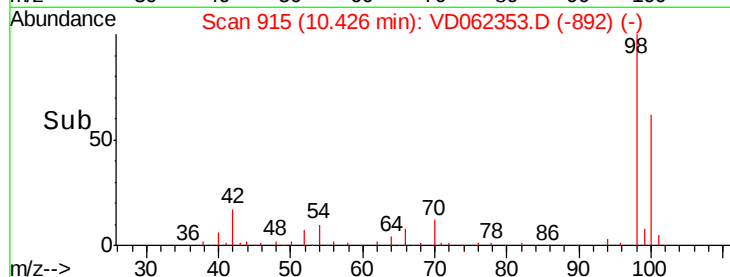
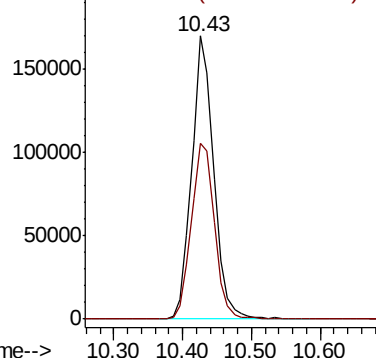
#50  
Toluene-d8  
Concen: 36.311 ug/l  
RT: 10.43 min Scan# 915  
Delta R.T. 0.03 min  
Lab File: VD062353.D  
Acq: 14 May 2019 18:20

Instrument :  
MSVOA\_D  
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Tgt Ion: 98 Resp: 374780  
Ion Ratio Lower Upper  
98 100  
100 62.1 53.8 80.8

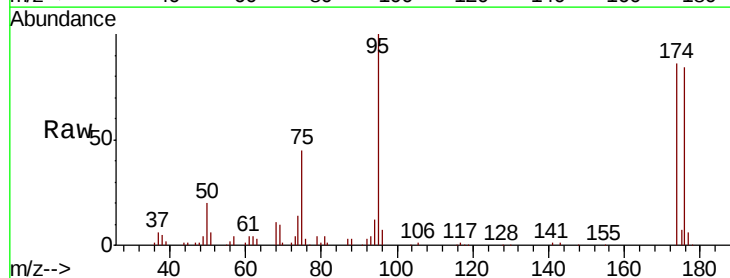


Abundance Ion 98.05 (97.75 to 98.75): VD062139.D (-905) (-)  
Ion 100.05 (99.75 to 100.75): VD062139.D (-905) (-)

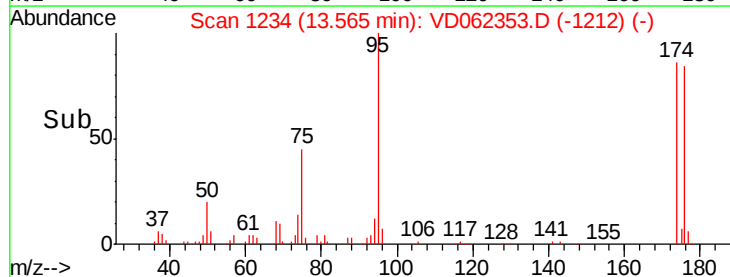
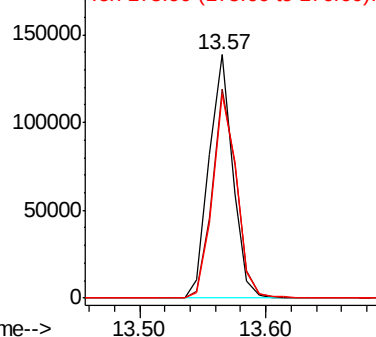


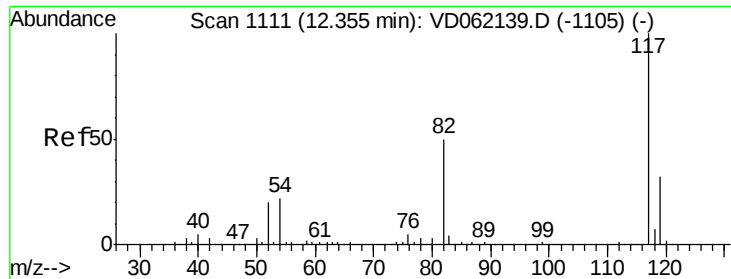
#62  
4-Bromofluorobenzene  
Concen: 43.250 ug/l  
RT: 13.57 min Scan# 1234  
Delta R.T. 0.02 min  
Lab File: VD062353.D  
Acq: 14 May 2019 18:20

Tgt Ion: 95 Resp: 179258  
Ion Ratio Lower Upper  
95 100  
174 85.8 0.0 181.8  
176 83.8 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VD062139.D (-1227) (-)  
Ion 173.90 (173.60 to 174.60): VD062139.D (-1227) (-)  
Ion 175.90 (175.60 to 176.60): VD062139.D (-1227) (-)

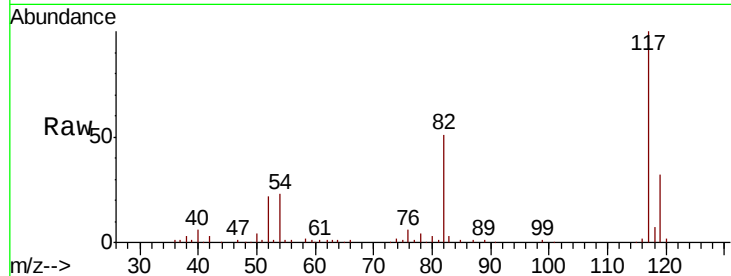




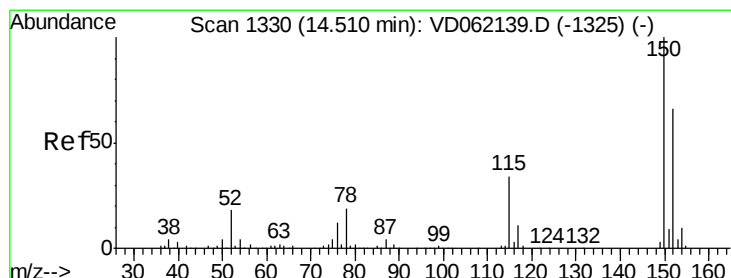
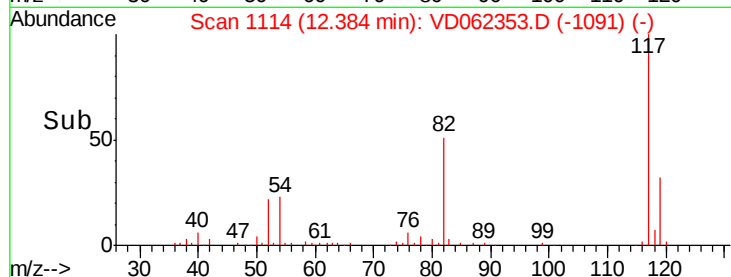
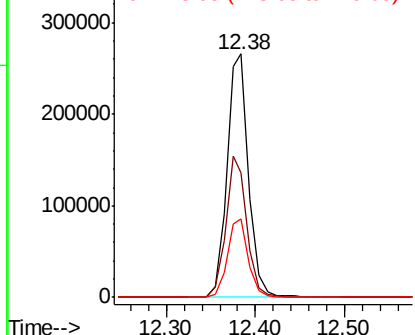
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.38 min Scan# 1114  
Delta R.T. 0.03 min  
Lab File: VD062353.D  
Acq: 14 May 2019 18:20

Instrument :  
MSVOA\_D  
ClientSampleId :  
P021-SS008-1218-01RE

Tgt Ion:117 Resp: 452419  
Ion Ratio Lower Upper  
117 100  
82 51.4 36.2 54.2  
119 32.1 26.2 39.4

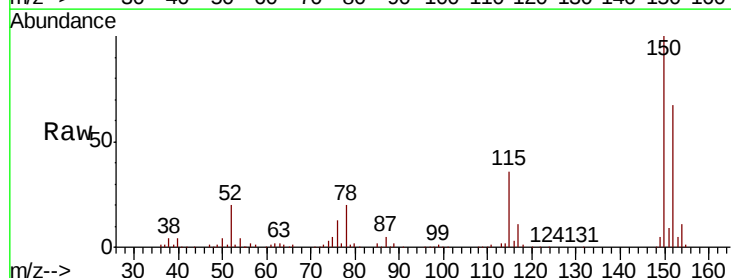


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 14.53 min Scan# 1332  
Delta R.T. 0.02 min  
Lab File: VD062353.D  
Acq: 14 May 2019 18:20

Tgt Ion:152 Resp: 218208  
Ion Ratio Lower Upper  
152 100  
115 54.1 30.9 92.7  
150 149.9 0.0 314.8



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

