

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD110918\  
 Data File : VD060327.D  
 Acq On : 9 Nov 2018 22:15  
 Operator : VA/AP  
 Sample : J5892-01  
 Misc : 5.06g/5ml/MSVOA D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PN-STONE

Quant Time: Nov 12 14:38:34 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:56:04 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.42  | 168  | 14519    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 7.45  | 114  | 24985    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.29 | 117  | 26903    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.38 | 152  | 17172    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |        |         |      |
|-----------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 6.79   | 65  | 19933    | 191.74 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 383.48% |      |
| 35) Dibromofluoromethane    | 6.34   | 113 | 13960    | 74.93  | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 149.86% |      |
| 50) Toluene-d8              | 9.47   | 98  | 25381    | 46.55  | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 93.10%  |      |
| 62) 4-Bromofluorobenzene    | 12.43  | 95  | 13726    | 69.47  | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =      | 138.94% |      |

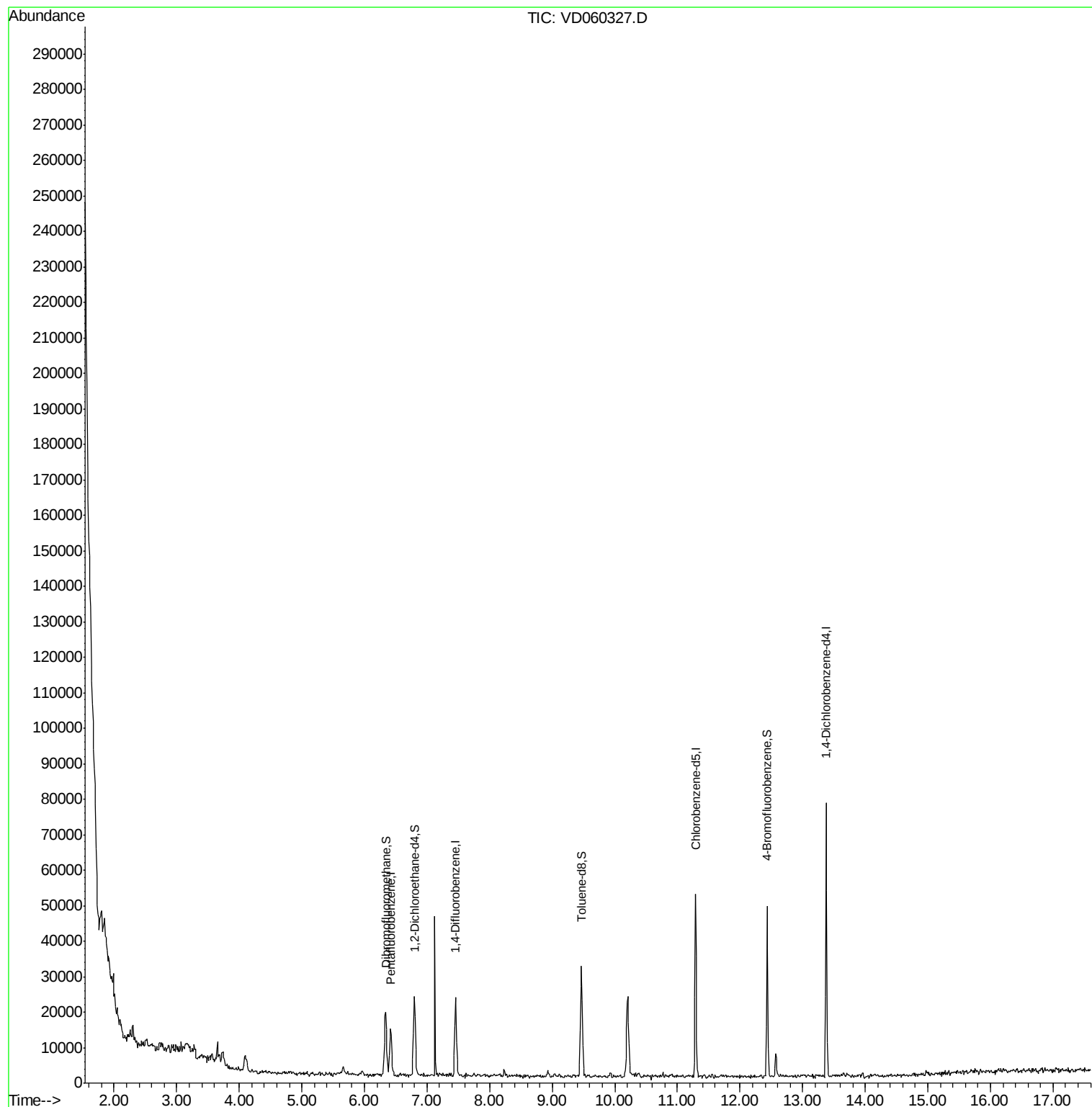
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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Quant Title : SW846 8260  
QLast Update : Tue Nov 06 13:56:04 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.42 min Scan# 497

Delta R.T. -0.01 min

Lab File: VD060327.D

Acq: 9 Nov 2018 22:15

Instrument :

MSVOA\_D

ClientSampleId :

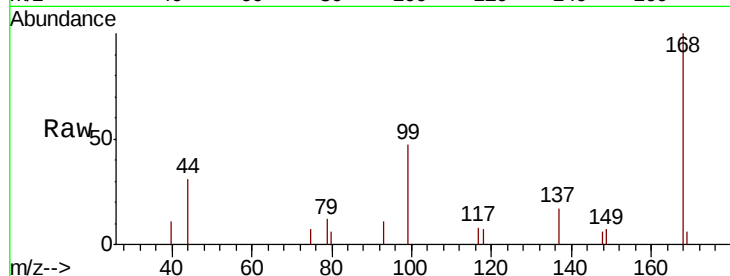
PN-STONE

Tot Ion:168 Resp: 14519

Ion Ratio Lower Upper

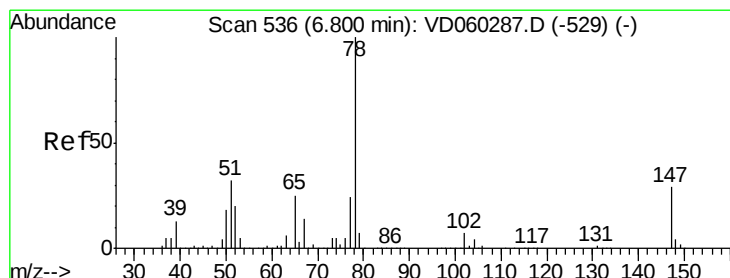
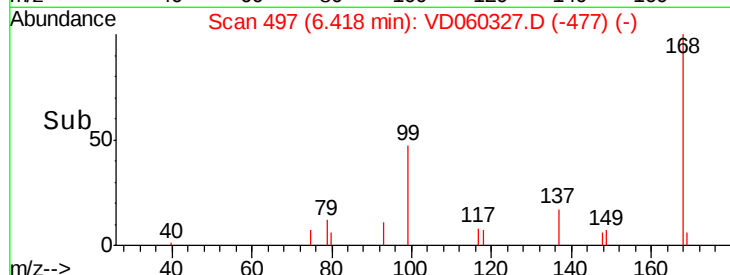
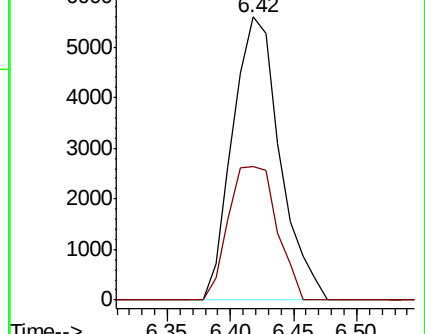
168 100

99 47.1 39.8 59.8



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: N.D. ug/l

RT: 6.79 min Scan# 535

Delta R.T. -0.01 min

Lab File: VD060327.D

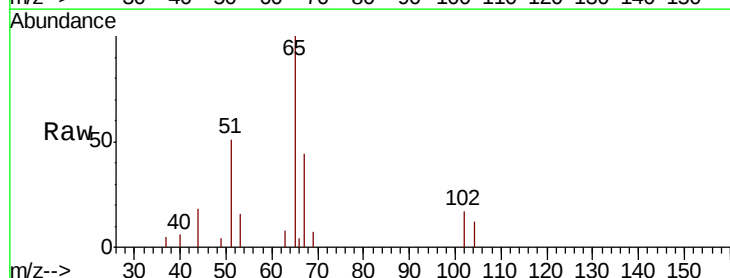
Acq: 9 Nov 2018 22:15

Tgt Ion: 65 Resp: 19933

Ion Ratio Lower Upper

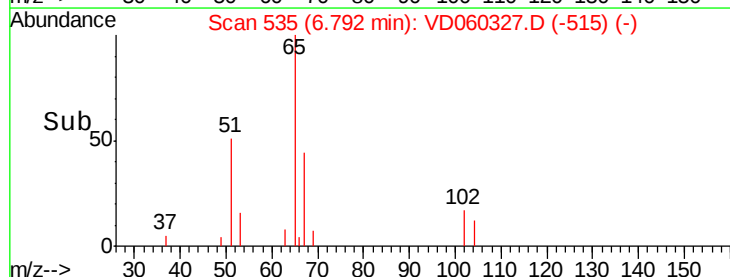
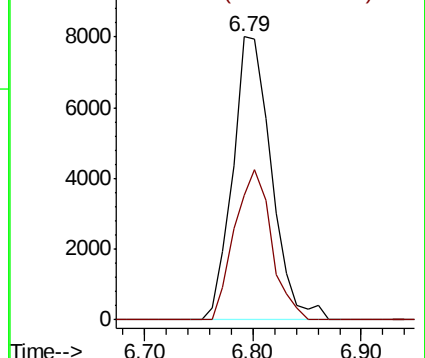
65 100

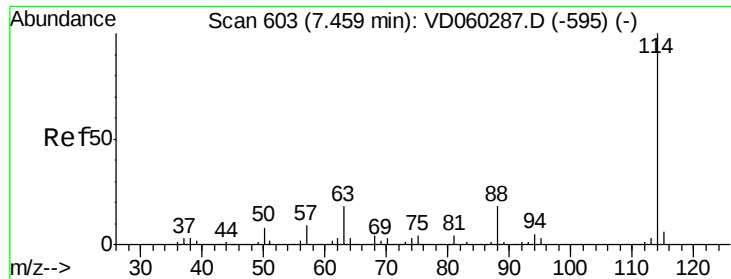
67 44.0 0.0 109.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

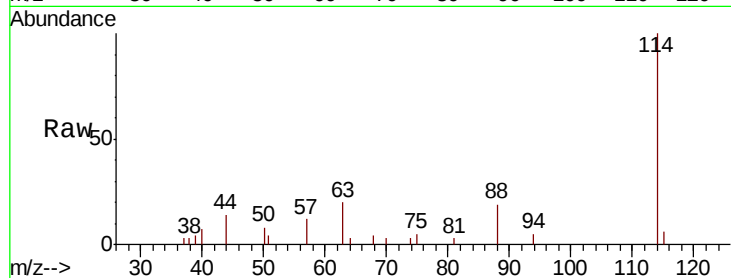




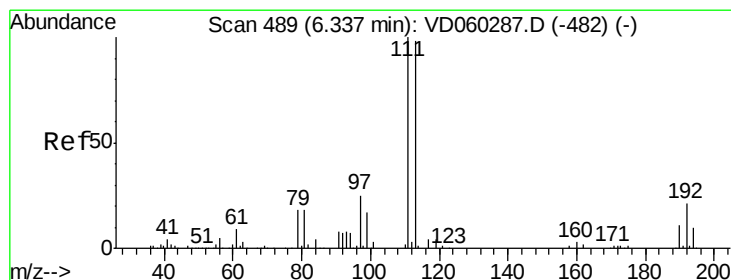
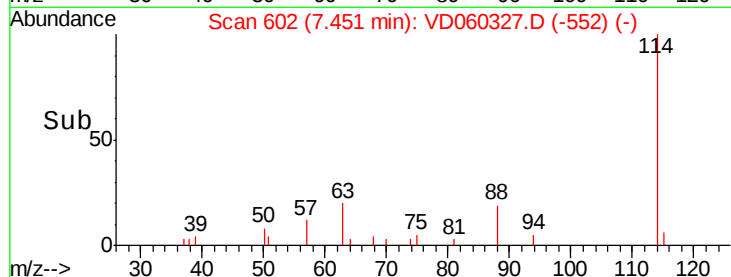
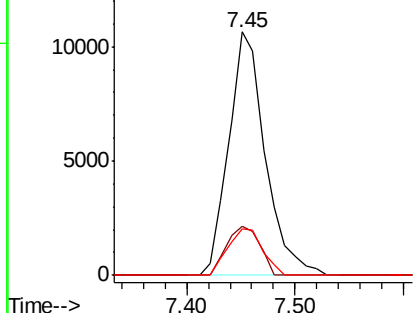
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.45 min Scan# 602  
 Delta R.T. -0.01 min  
 Lab File: VD060327.D  
 Acq: 9 Nov 2018 22:15

Instrument :  
 MSVOA\_D  
 ClientSampled :  
 PN-STONE

Tot Ion:114 Resp: 24985  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 34.0  
 88 19.1 0.0 35.4

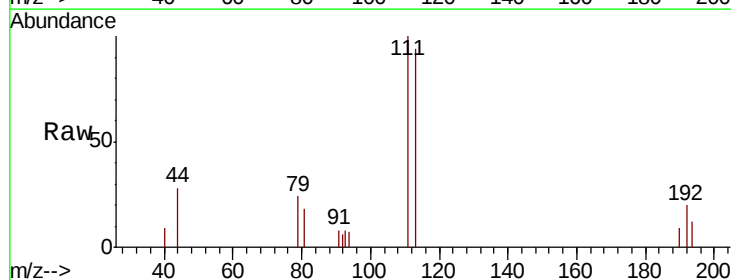


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

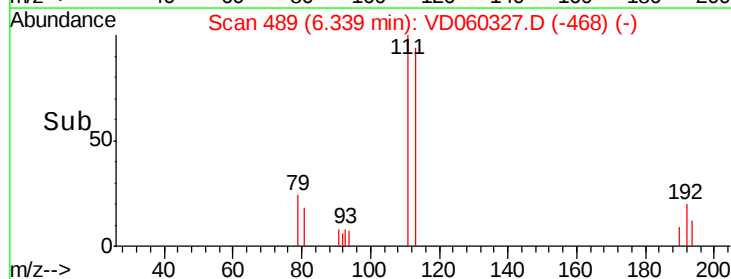
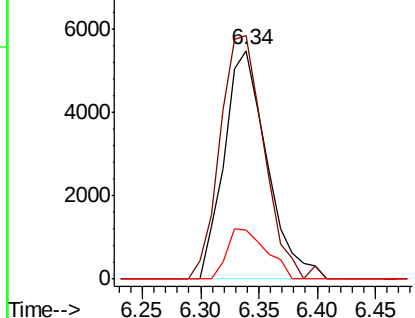


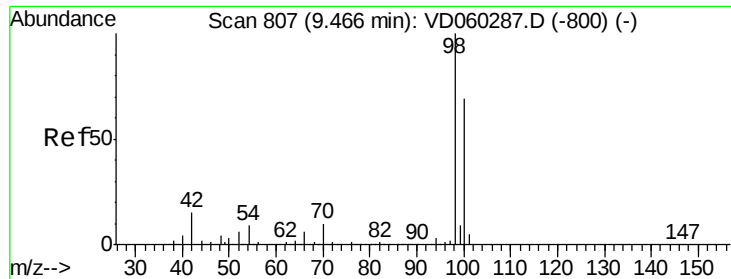
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.34 min Scan# 489  
 Delta R.T. 0.00 min  
 Lab File: VD060327.D  
 Acq: 9 Nov 2018 22:15

Tgt Ion:113 Resp: 13960  
 Ion Ratio Lower Upper  
 113 100  
 111 106.5 81.6 122.4  
 192 21.4 16.5 24.7



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: N.D. ug/l

RT: 9.47 min Scan# 807

Delta R.T. 0.00 min

Lab File: VD060327.D

Acq: 9 Nov 2018 22:15

Instrument :

MSVOA\_D

ClientSampleId :

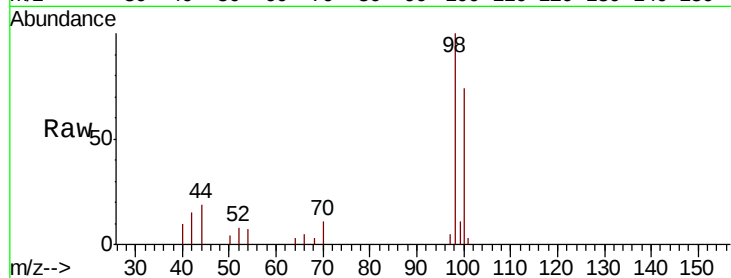
PN-STONE

Tot Ion: 98 Resp: 25381

Ion Ratio Lower Upper

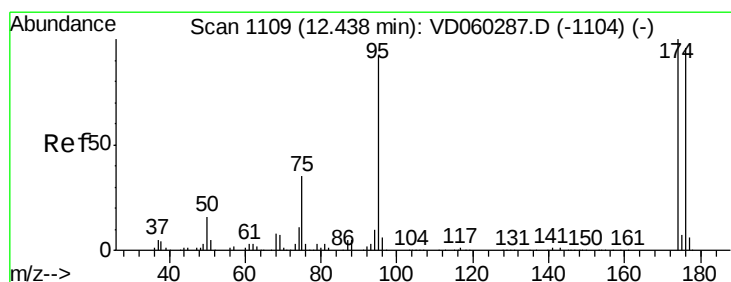
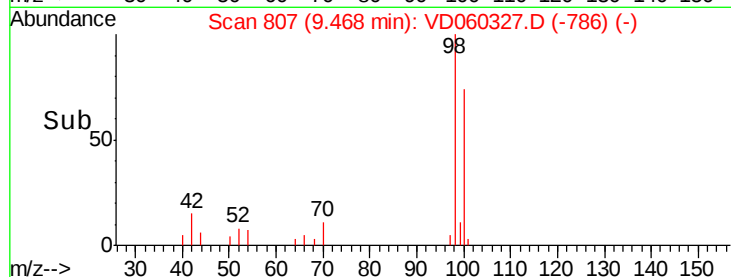
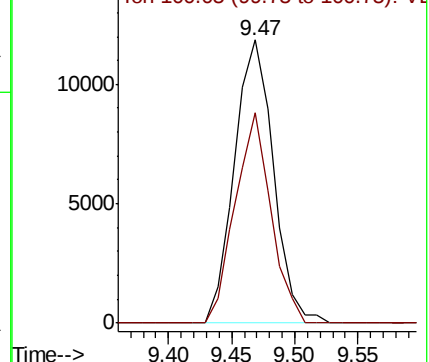
98 100

100 74.3 55.2 82.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VD060327.D

Acq: 9 Nov 2018 22:15

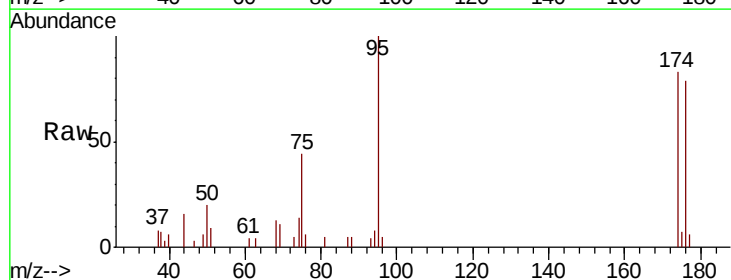
Tgt Ion: 95 Resp: 13726

Ion Ratio Lower Upper

95 100

174 83.2 0.0 160.8

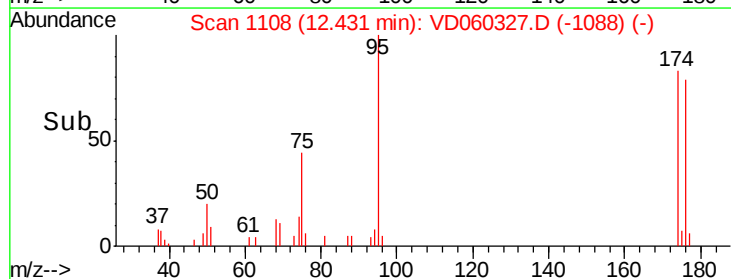
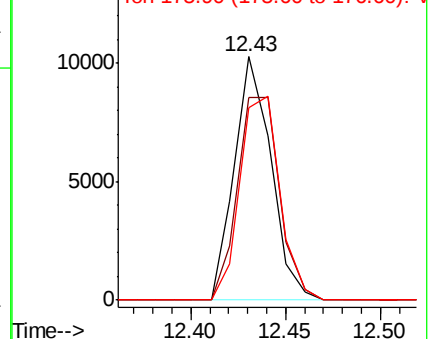
176 79.2 0.0 154.6

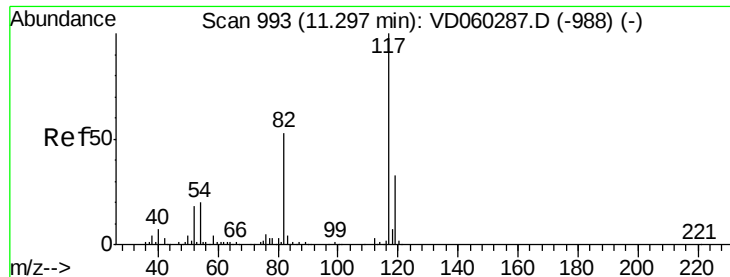


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

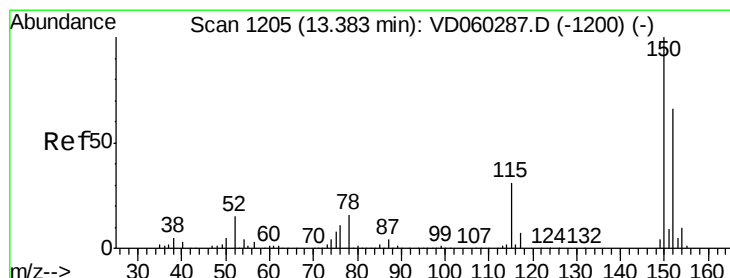
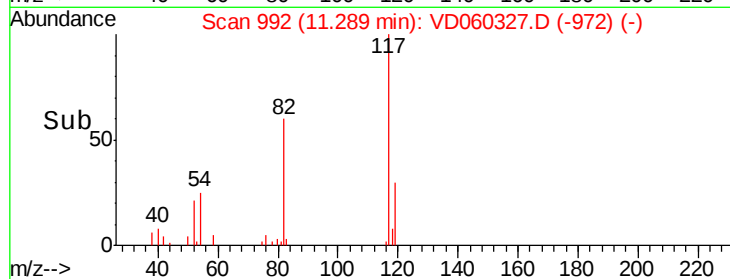
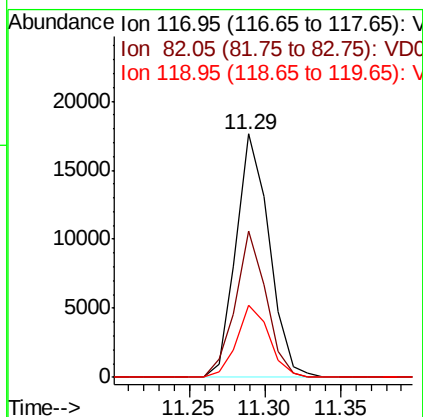
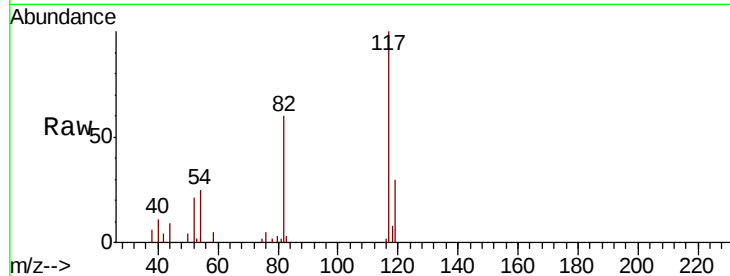




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.29 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VD060327.D  
Acq: 9 Nov 2018 22:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
PN-STONE

Tot Ion:117 Resp: 26903  
Ion Ratio Lower Upper  
117 100  
82 60.3 43.7 65.5  
119 29.9 26.1 39.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.38 min Scan# 1204  
Delta R.T. -0.01 min  
Lab File: VD060327.D  
Acq: 9 Nov 2018 22:15

Tgt Ion:152 Resp: 17172  
Ion Ratio Lower Upper  
152 100  
115 60.7 24.1 72.3  
150 166.2 0.0 310.6

