

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092418\  
 Data File : VD060083.D  
 Acq On : 24 Sep 2018 15:43  
 Operator : VA/AP  
 Sample : J5017-10RE  
 Misc : 5.15g/5ml/MSVOA D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-091918-N-WW-062RE

Quant Time: Sep 25 01:38:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D091318S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 13 16:17:40 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 6.37  | 168  | 1566864  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 7.41  | 114  | 2140783  | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 11.27 | 117  | 1452384  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.36 | 152  | 546020   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |        |       |
|-----------------------------|--------|-----|----------|-------|--------|-------|
| 33) 1,2-Dichloroethane-d4   | 6.75   | 65  | 369216   | 30.22 | ug/l   | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 60.44% |       |
| 35) Dibromofluoromethane    | 6.29   | 113 | 485385   | 29.02 | ug/l   | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 58.04% |       |
| 50) Toluene-d8              | 9.43   | 98  | 1188888  | 25.65 | ug/l   | -0.01 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 51.30% |       |
| 62) 4-Bromofluorobenzene    | 12.41  | 95  | 372179   | 21.02 | ug/l   | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 42.04% |       |

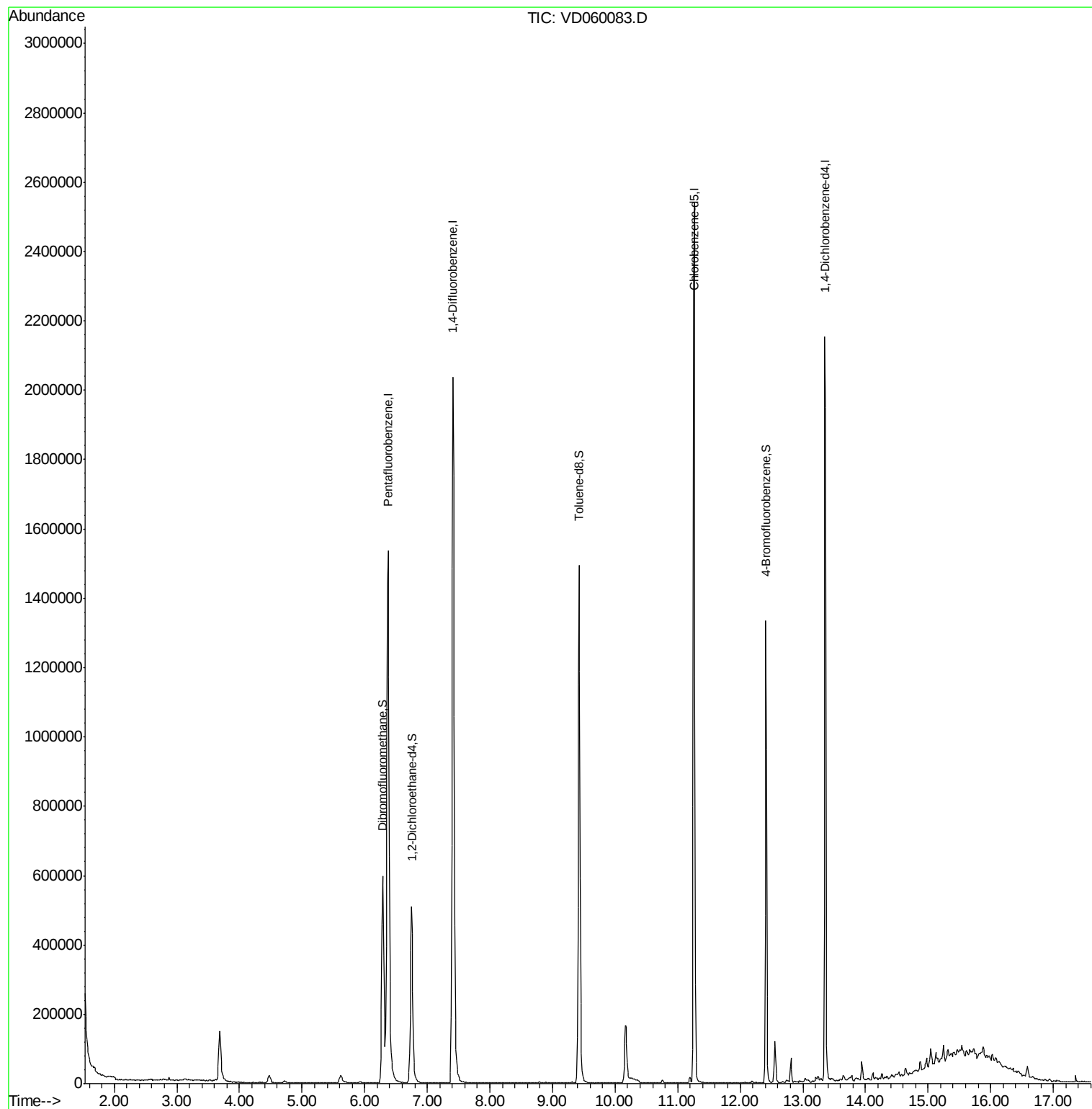
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

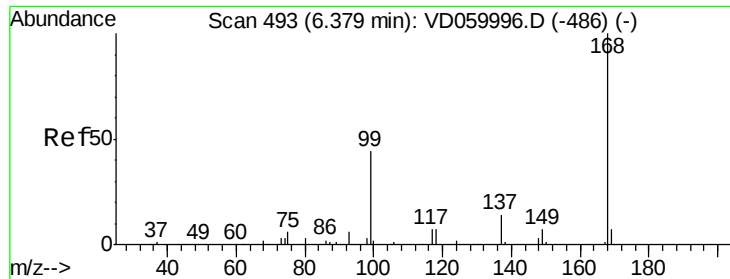
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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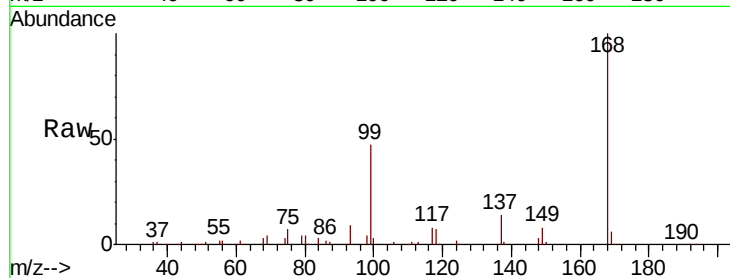


#1

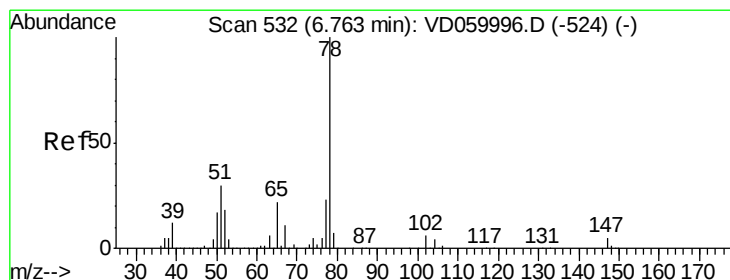
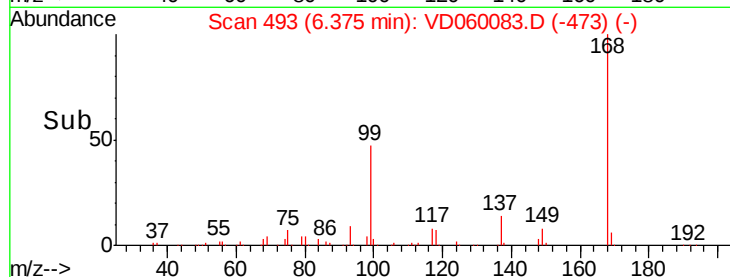
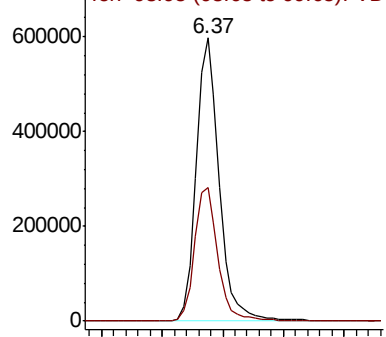
Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.37 min Scan# 493  
 Delta R.T. -0.00 min  
 Lab File: VD060083.D  
 Acq: 24 Sep 2018 15:43

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-091918-N-WW-062RE

Tot Ion:168 Resp: 1566864  
 Ion Ratio Lower Upper  
 168 100  
 99 47.1 38.5 57.7



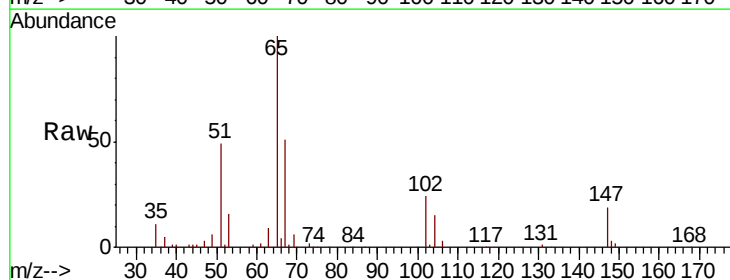
Abundance Ion 167.90 (167.60 to 168.60): V  
 Ion 98.95 (98.65 to 99.65): VDC



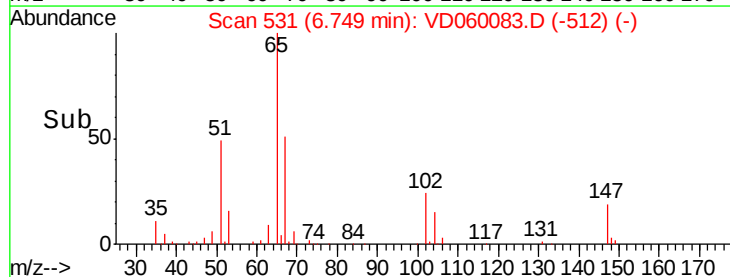
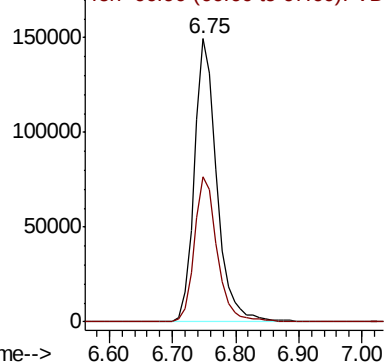
#33

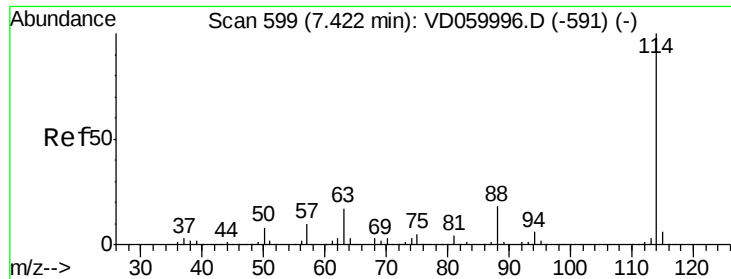
1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 6.75 min Scan# 531  
 Delta R.T. -0.01 min  
 Lab File: VD060083.D  
 Acq: 24 Sep 2018 15:43

Tgt Ion: 65 Resp: 369216  
 Ion Ratio Lower Upper  
 65 100  
 67 51.2 0.0 104.8



Abundance Ion 64.95 (64.65 to 65.65): VDC  
 Ion 66.90 (66.60 to 67.60): VDC

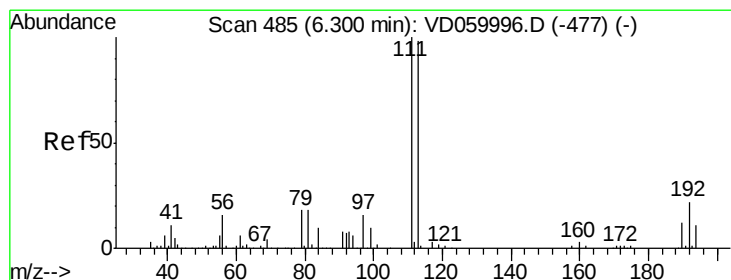
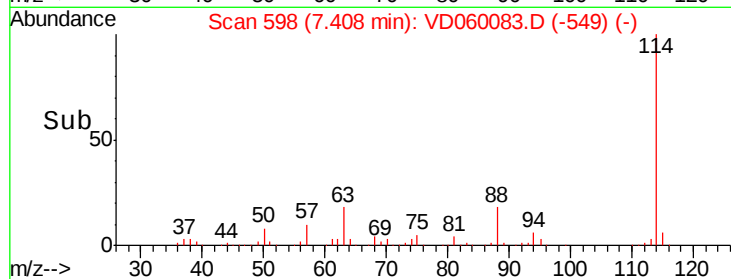
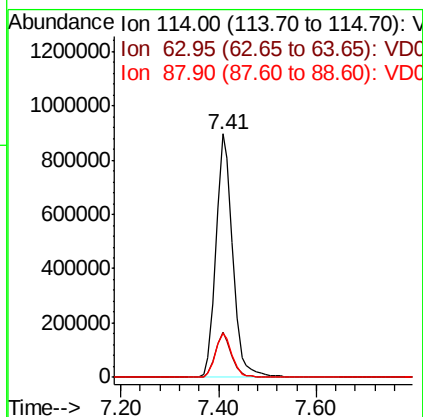
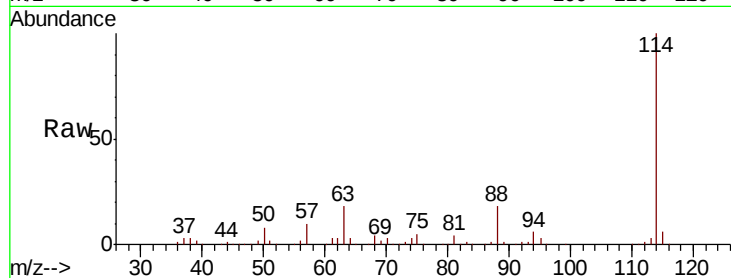




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.41 min Scan# 598  
 Delta R.T. -0.01 min  
 Lab File: VD060083.D  
 Acq: 24 Sep 2018 15:43

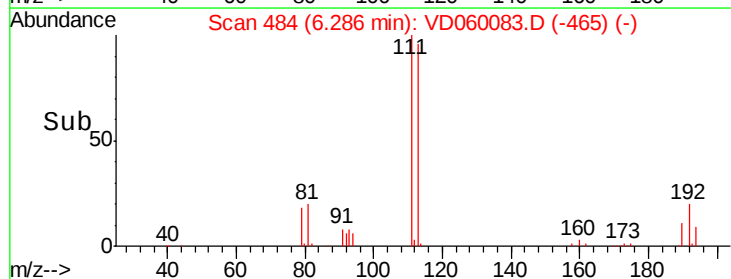
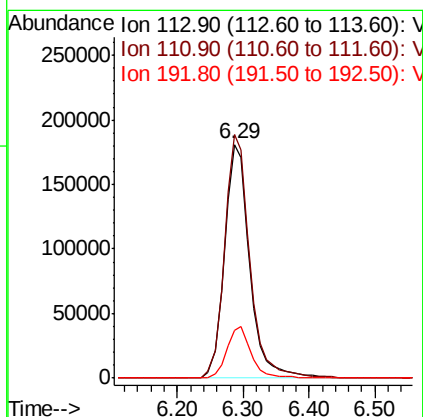
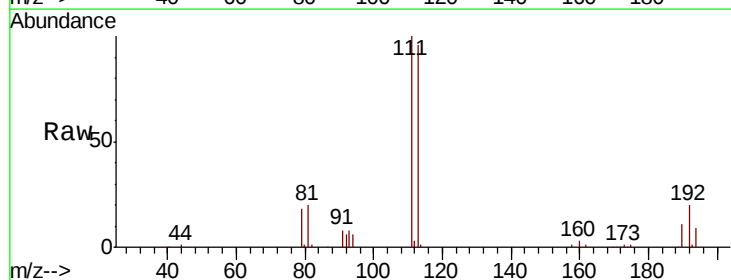
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RA-091918-N-WW-062RE

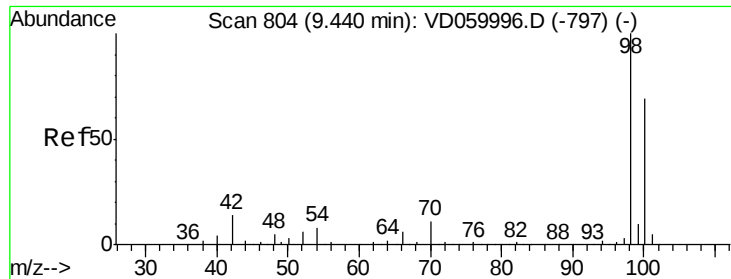
Tot Ion:114 Resp: 2140783  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 0.0 34.4  
 88 18.2 0.0 35.8



#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.29 min Scan# 484  
 Delta R.T. -0.01 min  
 Lab File: VD060083.D  
 Acq: 24 Sep 2018 15:43

Tgt Ion:113 Resp: 485385  
 Ion Ratio Lower Upper  
 113 100  
 111 104.1 81.3 121.9  
 192 20.4 18.1 27.1

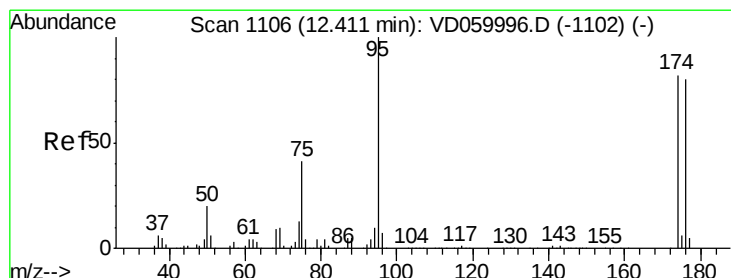
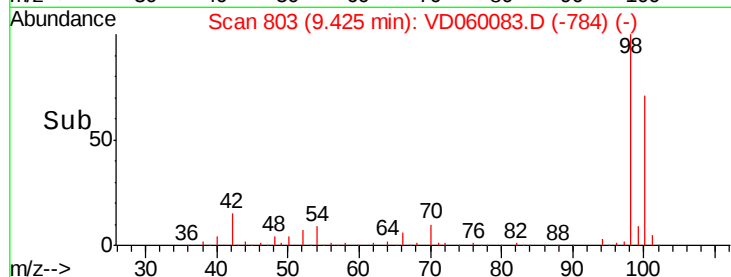
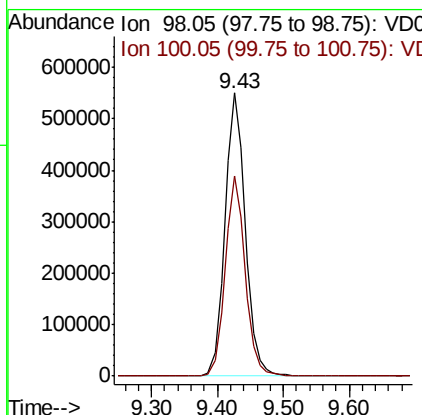
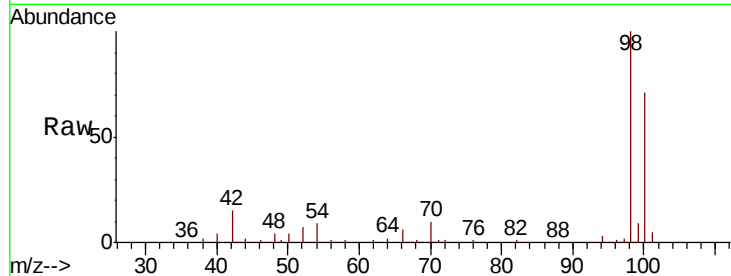




#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.43 min Scan# 803  
Delta R.T. -0.01 min  
Lab File: VD060083.D  
Acq: 24 Sep 2018 15:43

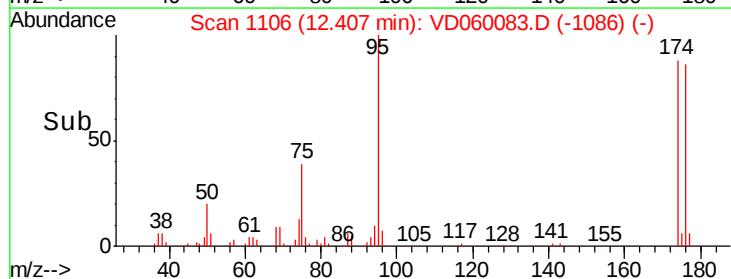
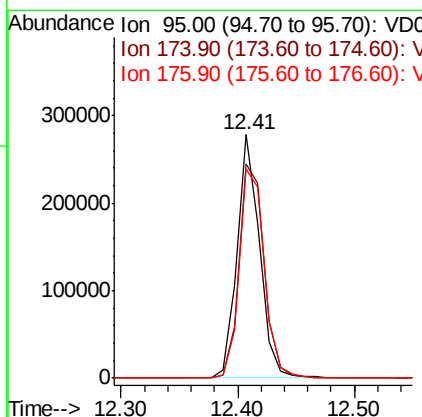
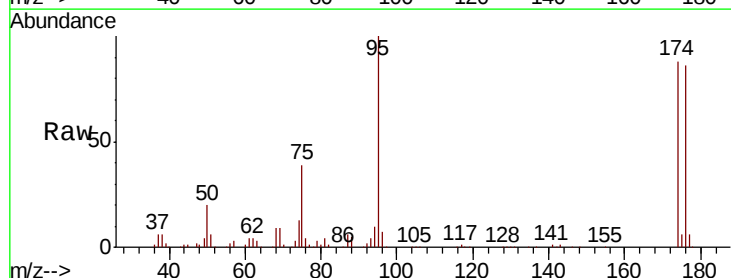
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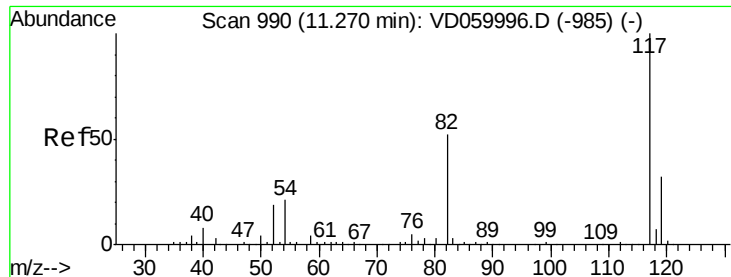
Tot Ion: 98 Resp: 1188888  
Ion Ratio Lower Upper  
98 100  
100 70.6 55.8 83.6



#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.41 min Scan# 1106  
Delta R.T. -0.00 min  
Lab File: VD060083.D  
Acq: 24 Sep 2018 15:43

Tgt Ion: 95 Resp: 372179  
Ion Ratio Lower Upper  
95 100  
174 87.7 0.0 165.0  
176 85.7 0.0 160.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VD060083.D

Acq: 24 Sep 2018 15:43

Instrument :

MSVOA\_D

ClientSampleId :

RA-091918-N-WW-062RE

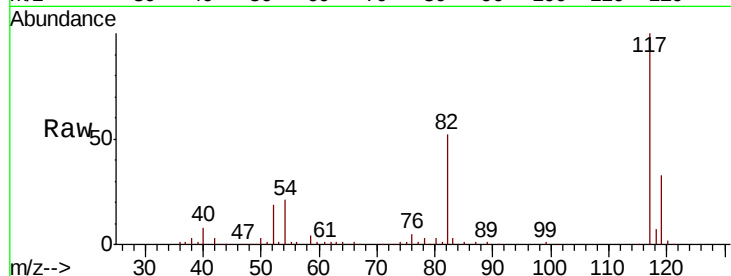
Tot Ion:117 Resp: 1452384

Ion Ratio Lower Upper

117 100

82 52.4 41.7 62.5

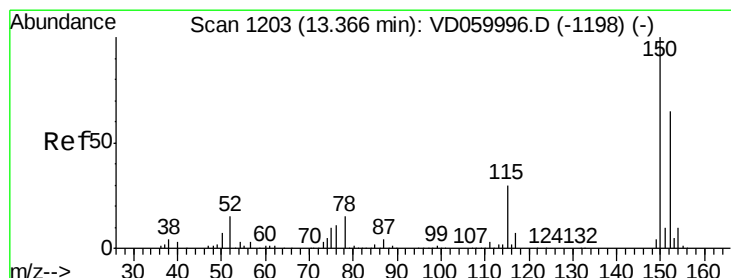
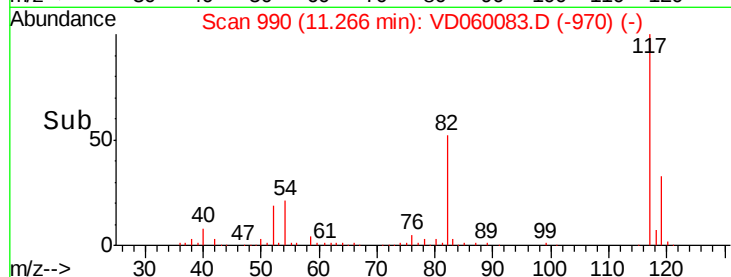
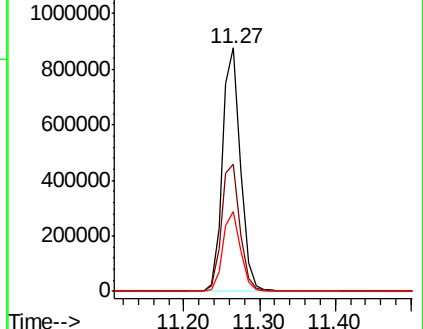
119 32.8 26.0 39.0



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: 13.36 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD060083.D

Acq: 24 Sep 2018 15:43

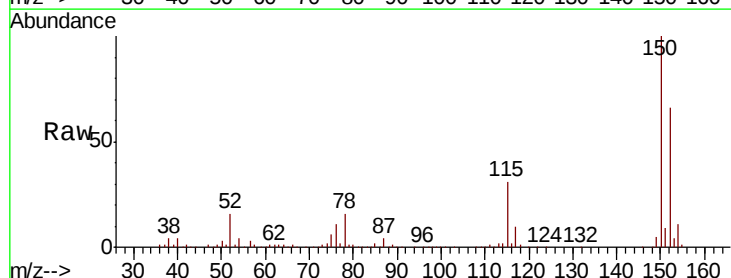
Tgt Ion:152 Resp: 546020

Ion Ratio Lower Upper

152 100

115 46.5 24.6 73.8

150 152.4 0.0 313.4



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

