

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120318\  
 Data File : VD060467.D  
 Acq On : 3 Dec 2018 11:04  
 Operator : VA/AP  
 Sample : VD1203SBL01  
 Misc : 5.00g/5ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1203SBL01

Quant Time: Dec 04 02:29:58 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 19 16:31:59 2018  
 Response via : Initial Calibration

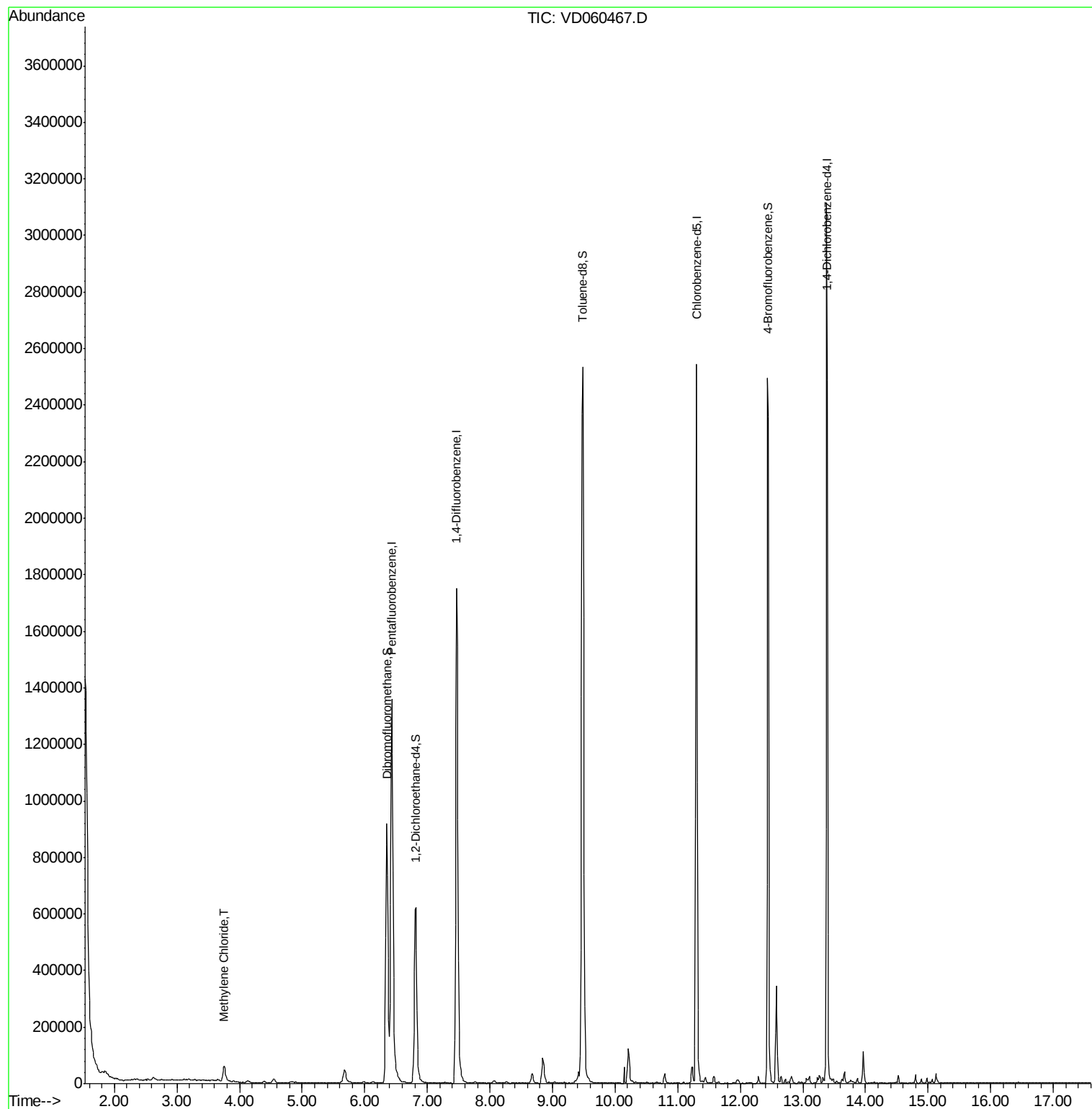
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|---------|-----------|
| 1) Pentafluorobenzene       | 6.43  | 168  | 1376998  | 50.00 | ug/l    | 0.00      |
| 34) 1,4-Difluorobenzene     | 7.47  | 114  | 1885247  | 50.00 | ug/l    | 0.00      |
| 63) Chlorobenzene-d5        | 11.30 | 117  | 1499230  | 50.00 | ug/l    | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 13.38 | 152  | 739817   | 50.00 | ug/l    | 0.00      |
| System Monitoring Compounds |       |      |          |       |         |           |
| 33) 1,2-Dichloroethane-d4   | 6.82  | 65   | 512924   | 52.02 | ug/l    | 0.02      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.04% |           |
| 35) Dibromofluoromethane    | 6.35  | 113  | 752906   | 53.56 | ug/l    | 0.02      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 107.12% |           |
| 50) Toluene-d8              | 9.48  | 98   | 2137898  | 51.96 | ug/l    | 0.02      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 103.92% |           |
| 62) 4-Bromofluorobenzene    | 12.44 | 95   | 778810   | 52.24 | ug/l    | 0.00      |
| Spiked Amount 50.000        |       |      | Recovery | =     | 104.48% |           |
| Target Compounds            |       |      |          |       |         |           |
| 20) Methylene Chloride      | 3.76  | 84   | 34564    | 2.278 | ug/l    | Qvalue 92 |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 19 16:31:59 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.43 min Scan# 499

Delta R.T. 0.01 min

Lab File: VD060467.D

Acq: 3 Dec 2018 11:04

Instrument :

MSVOA\_D

ClientSampleId :

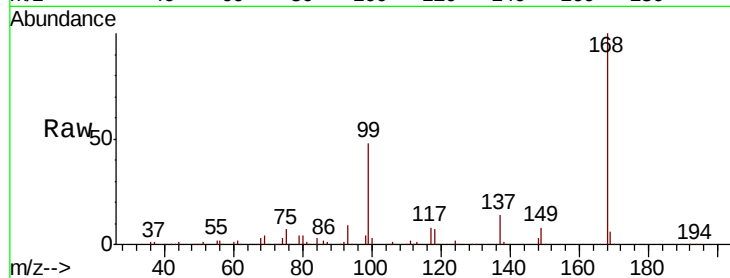
VD1203SBL01

Tot Ion:168 Resp: 1376998

Ion Ratio Lower Upper

168 100

99 48.4 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.43

500000

400000

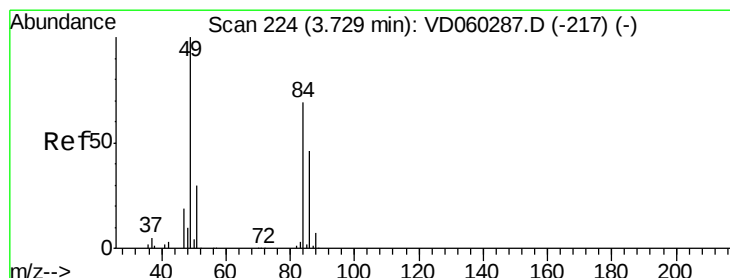
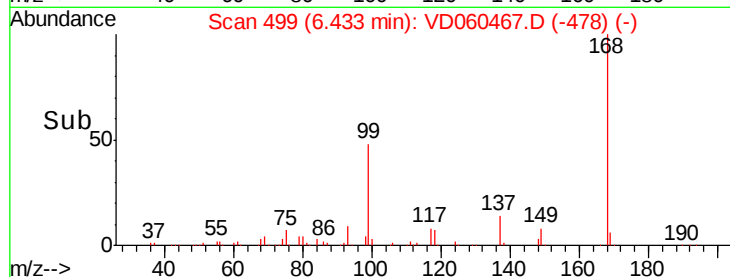
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 2.278 ug/l

RT: 3.76 min Scan# 227

Delta R.T. 0.03 min

Lab File: VD060467.D

Acq: 3 Dec 2018 11:04

Tgt Ion: 84 Resp: 34564

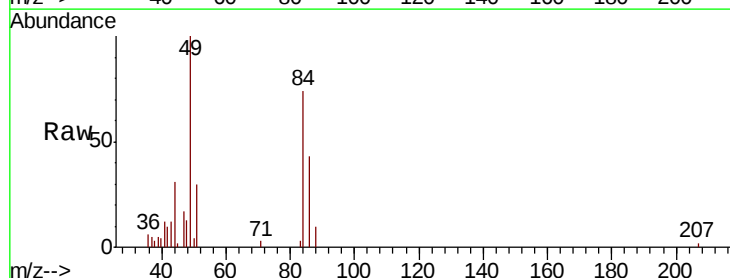
Ion Ratio Lower Upper

84 100

49 136.0 115.6 173.4

51 40.2 35.6 53.4

86 57.8 52.3 78.5



Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

25000

20000

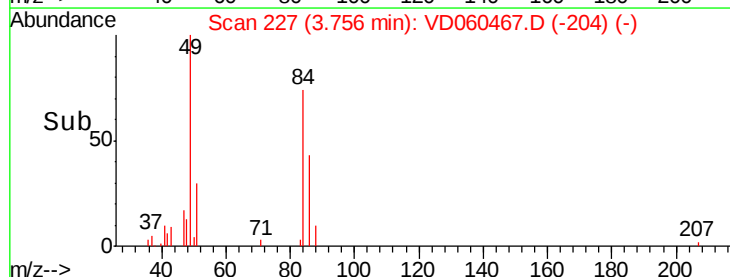
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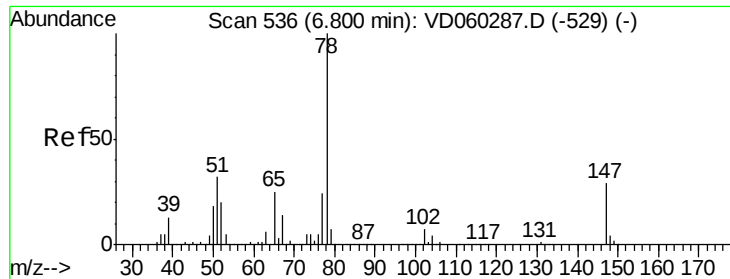
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5000

0

Time-->

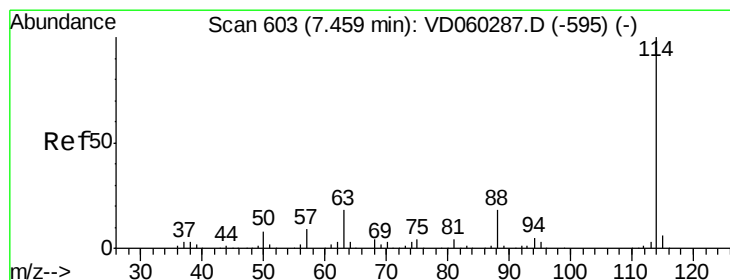
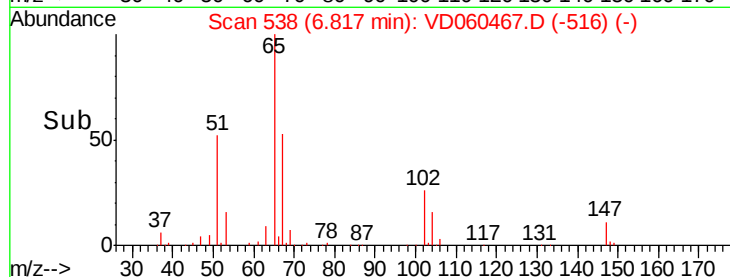
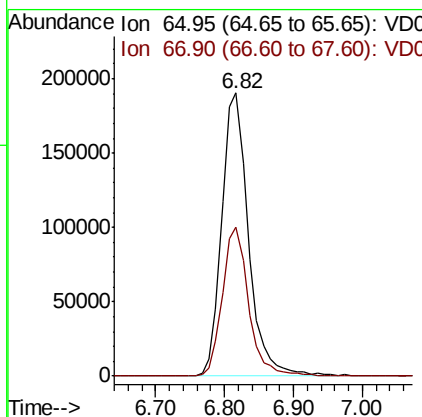
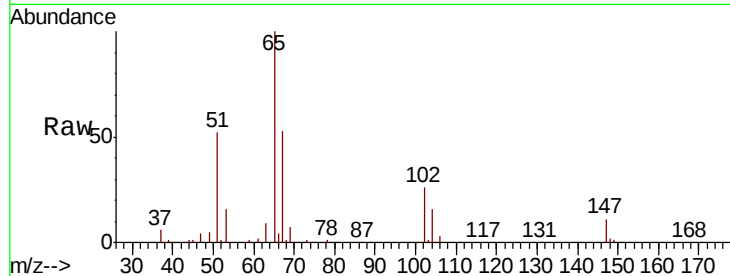




#33  
 1,2-Dichloroethane-d4  
 Concen: Below ug/l  
 RT: 6.82 min Scan# 538  
 Delta R.T. 0.02 min  
 Lab File: VD060467.D  
 Acq: 3 Dec 2018 11:04

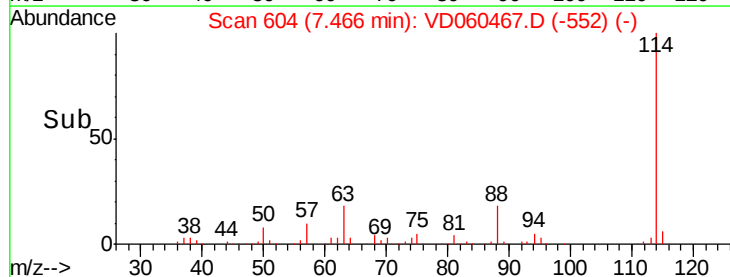
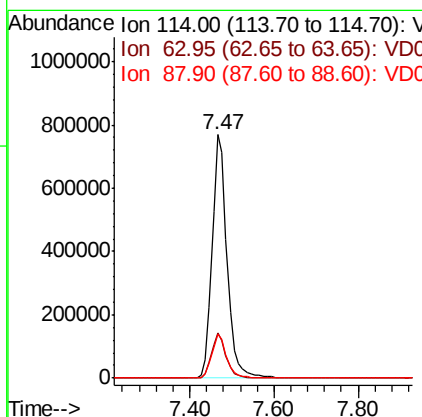
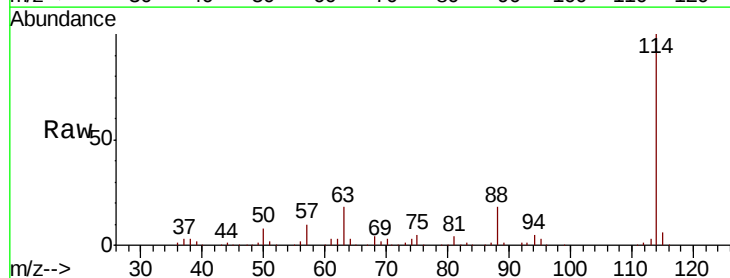
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1203SBL01

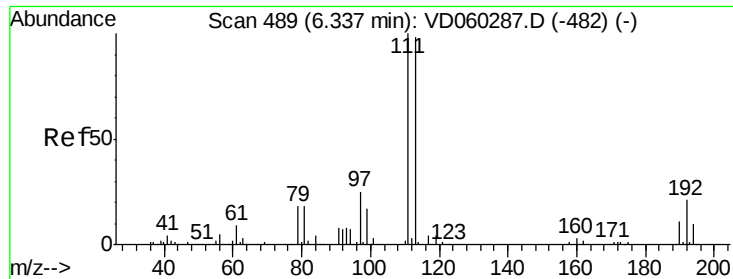
Tot Ion: 65 Resp: 512924  
 Ion Ratio Lower Upper  
 65 100  
 67 52.8 0.0 109.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.47 min Scan# 604  
 Delta R.T. 0.01 min  
 Lab File: VD060467.D  
 Acq: 3 Dec 2018 11:04

Tgt Ion: 114 Resp: 1885247  
 Ion Ratio Lower Upper  
 114 100  
 63 18.4 0.0 34.0  
 88 18.3 0.0 35.4

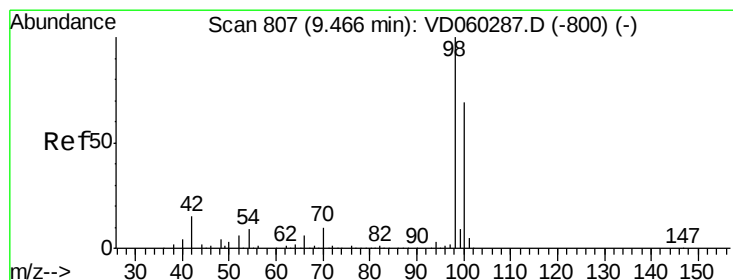
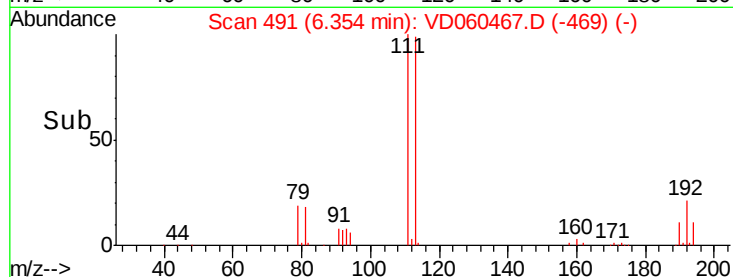
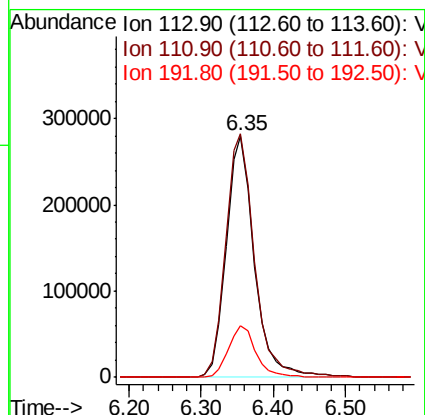
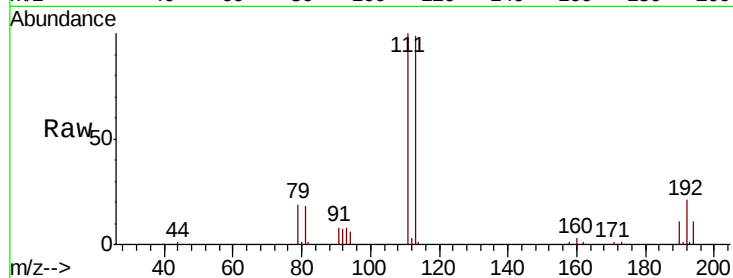




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.35 min Scan# 491  
 Delta R.T. 0.02 min  
 Lab File: VD060467.D  
 Acq: 3 Dec 2018 11:04

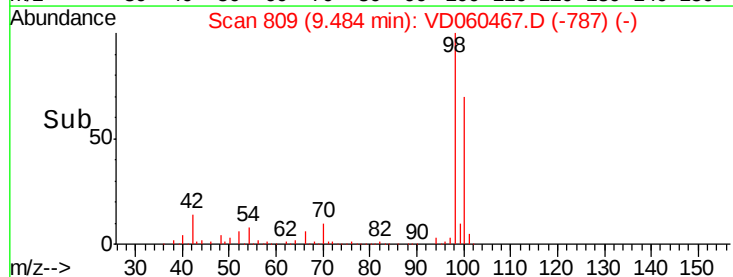
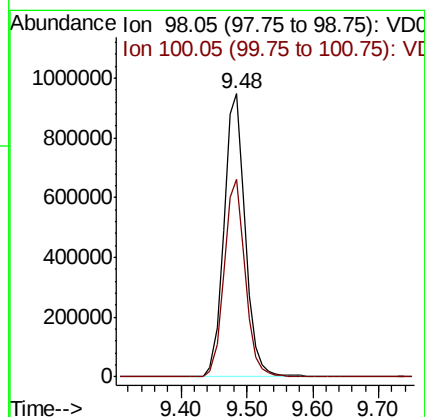
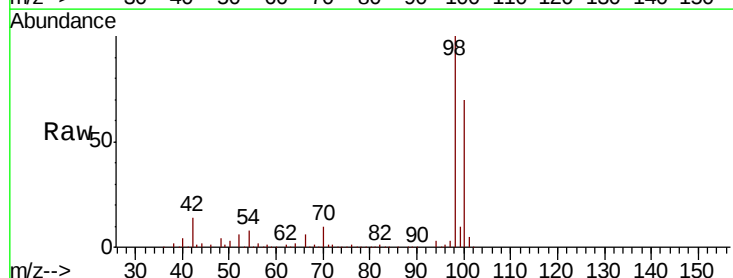
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1203SBL01

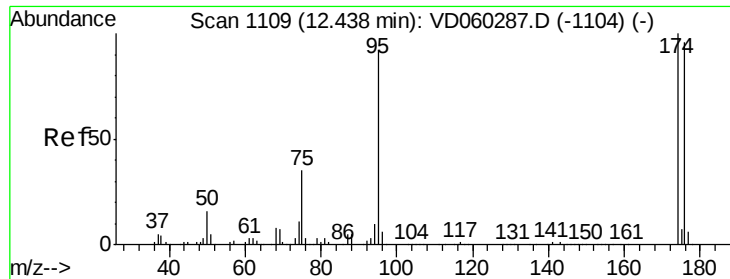
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.8 | 81.6  | 122.4 |
| 192     | 21.4  | 16.5  | 24.7  |



#50  
 Toluene-d8  
 Concen: N.D. ug/l  
 RT: 9.48 min Scan# 809  
 Delta R.T. 0.02 min  
 Lab File: VD060467.D  
 Acq: 3 Dec 2018 11:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 70.0  | 55.2  | 82.8  |

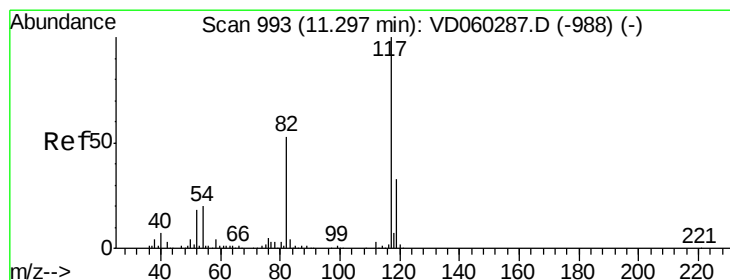
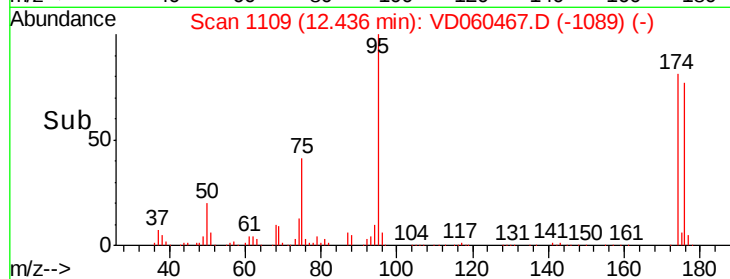
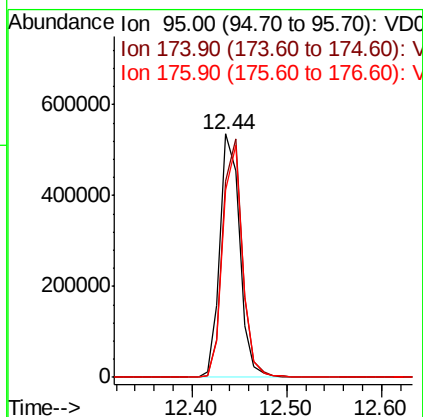
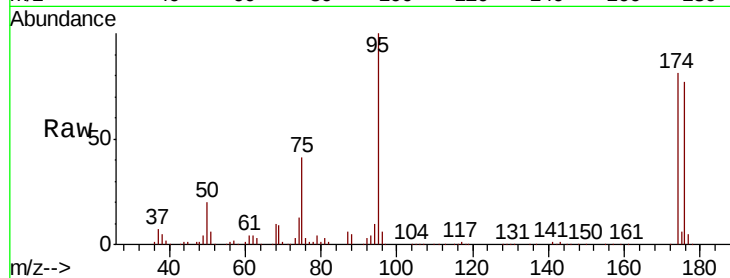




#62  
4-Bromofluorobenzene  
Concen: Below ug/l  
RT: 12.44 min Scan# 1109  
Delta R.T. -0.00 min  
Lab File: VD060467.D  
Acq: 3 Dec 2018 11:04

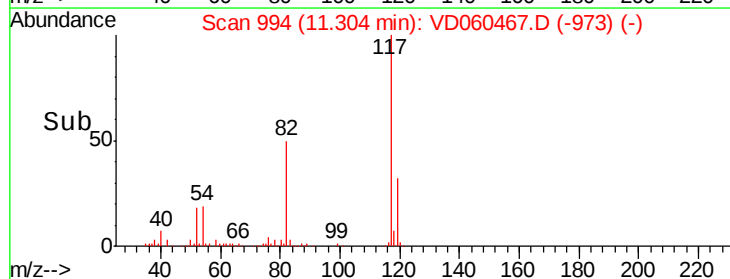
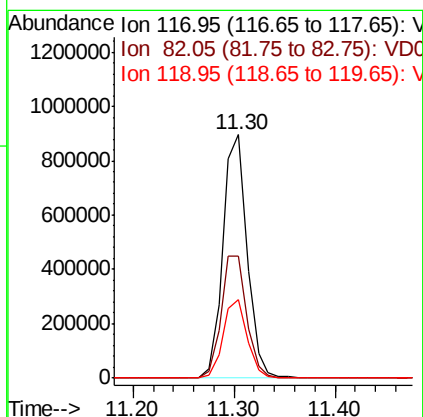
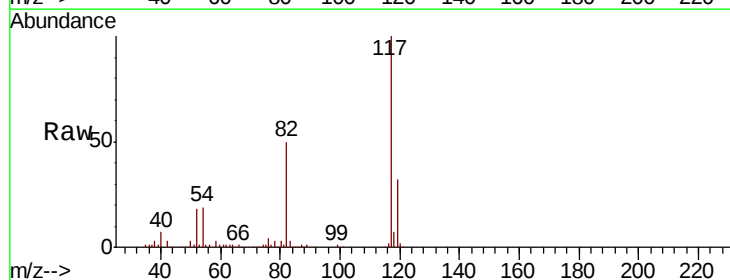
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1203SBL01

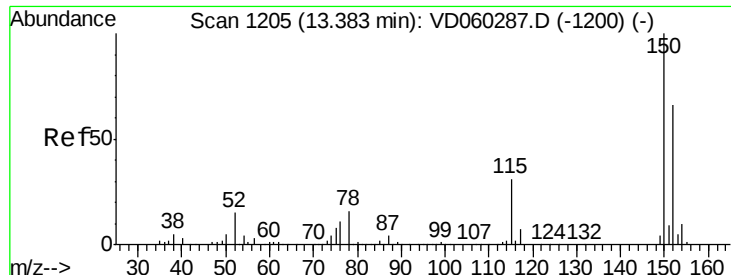
Tot Ion: 95 Resp: 778810  
Ion Ratio Lower Upper  
95 100  
174 80.6 0.0 160.8  
176 77.0 0.0 154.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.30 min Scan# 994  
Delta R.T. 0.01 min  
Lab File: VD060467.D  
Acq: 3 Dec 2018 11:04

Tgt Ion: 117 Resp: 1499230  
Ion Ratio Lower Upper  
117 100  
82 50.0 43.7 65.5  
119 32.2 26.1 39.1

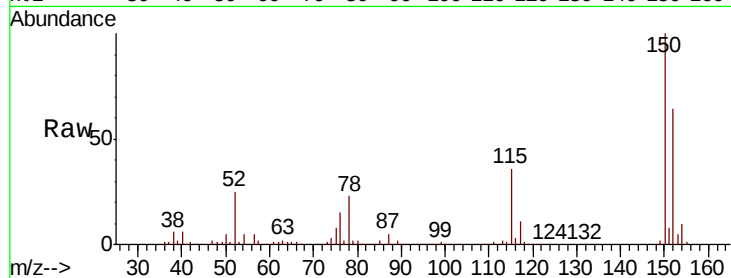




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.38 min Scan# 1205  
 Delta R.T. -0.00 min  
 Lab File: VD060467.D  
 Acq: 3 Dec 2018 11:04

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1203SBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.4  | 24.1  | 72.3  |
| 150     | 155.1 | 0.0   | 310.6 |



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

