

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101019\  
 Data File : VD063902.D  
 Acq On : 10 Oct 2019 11:19  
 Operator : VA/SY  
 Sample : VD1010SBL01  
 Misc : 5.00G/5ml/MSVOA D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1010SBL01

Quant Time: Oct 11 07:48:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100219S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 05 03:51:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 211682   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 326316   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 319308   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.57 | 152  | 151269   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 102246   | 49.61 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.22%  |      |
| 35) Dibromofluoromethane    | 7.91   | 113 | 100652   | 50.47 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.94% |      |
| 50) Toluene-d8              | 10.34  | 98  | 415916   | 51.38 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.76% |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 128109   | 45.55 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.10%  |      |

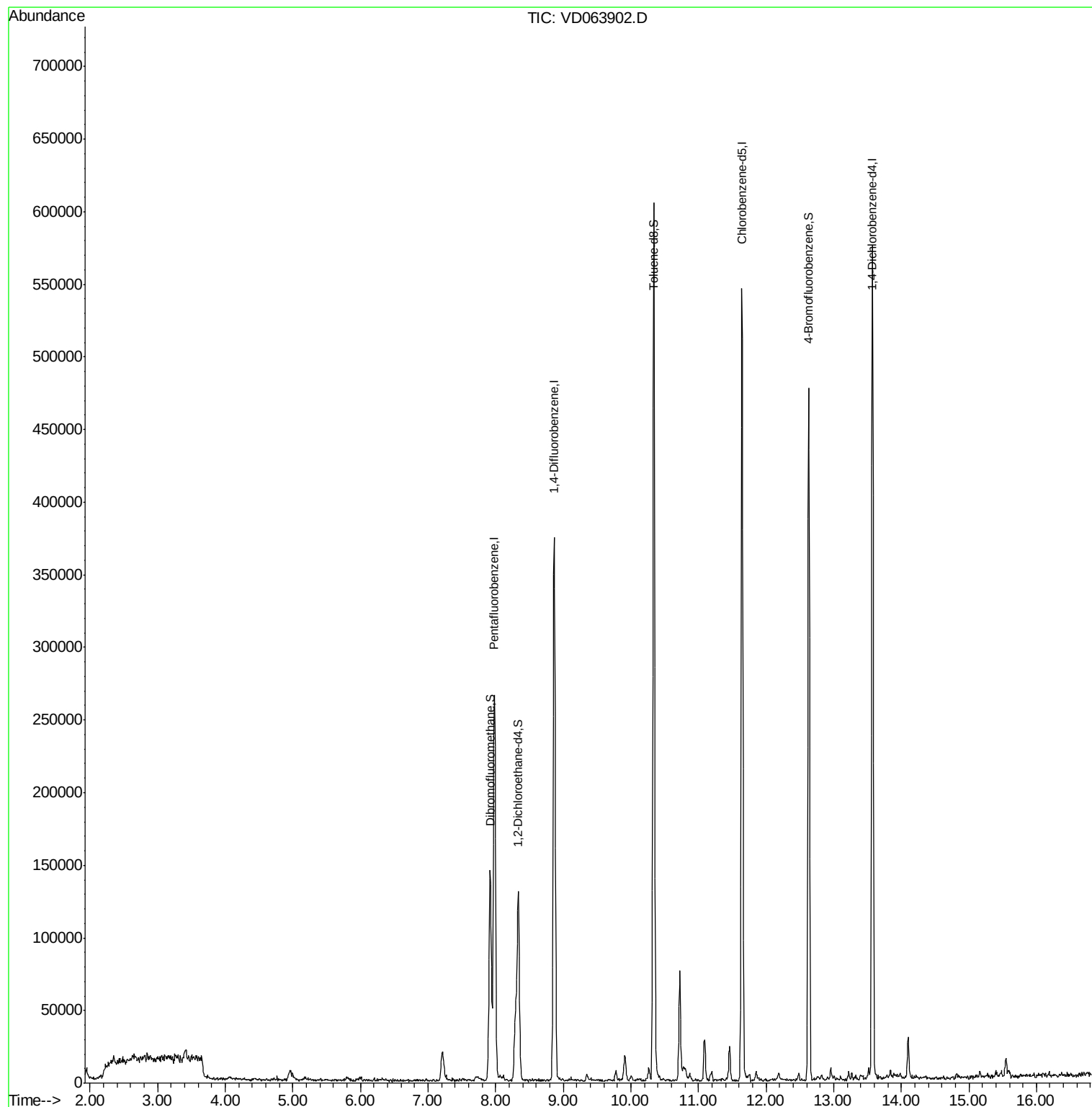
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

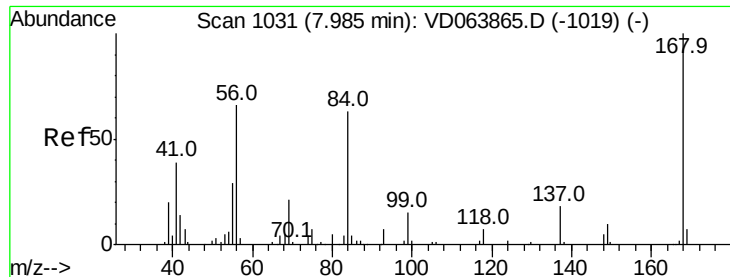
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD101019\  
Data File : VD063902.D  
Acq On : 10 Oct 2019 11:19  
Operator : VA/SY  
Sample : VD1010SBL01  
Misc : 5.00G/5ml/MSVOA D/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1010SBL01

Quant Time: Oct 11 07:48:07 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100219S.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 05 03:51:17 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD063902.D

Acq: 10 Oct 2019 11:19

Instrument :

MSVOA\_D

ClientSampleId :

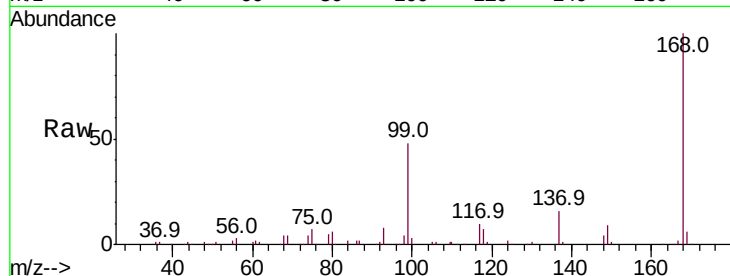
VD1010SBL01

Tot Ion:168 Resp: 211682

Ion Ratio Lower Upper

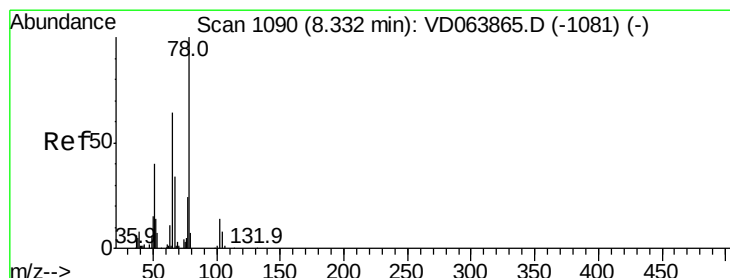
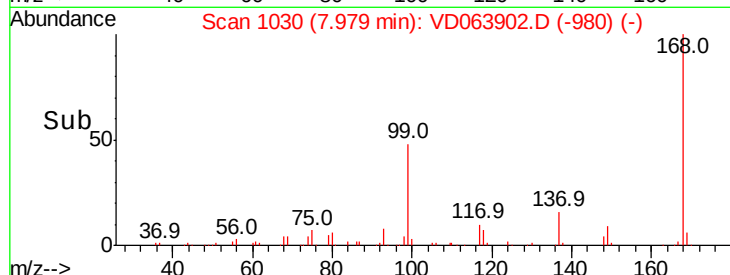
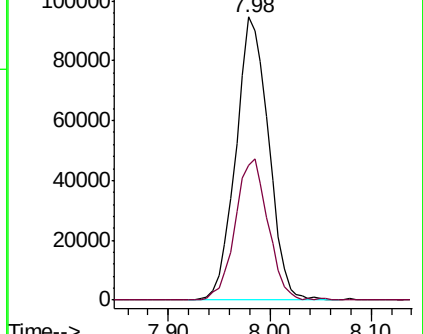
168 100

99 47.5 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#33

1,2-Dichloroethane-d4

Concen: 49.613 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD063902.D

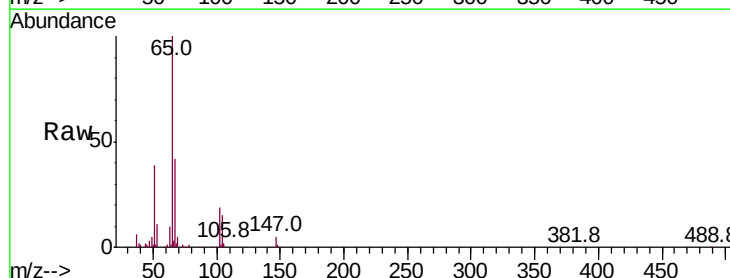
Acq: 10 Oct 2019 11:19

Tgt Ion: 65 Resp: 102246

Ion Ratio Lower Upper

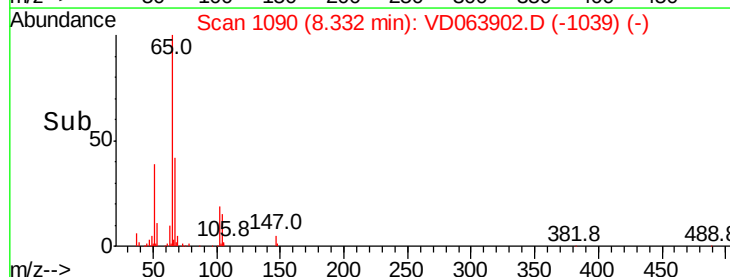
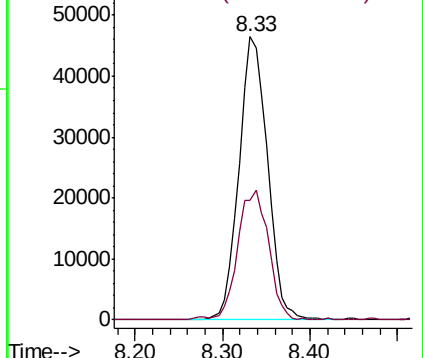
65 100

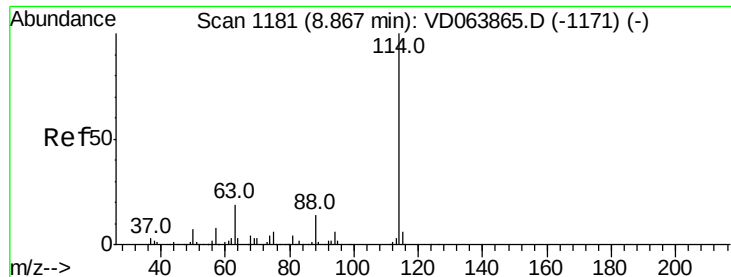
67 49.1 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



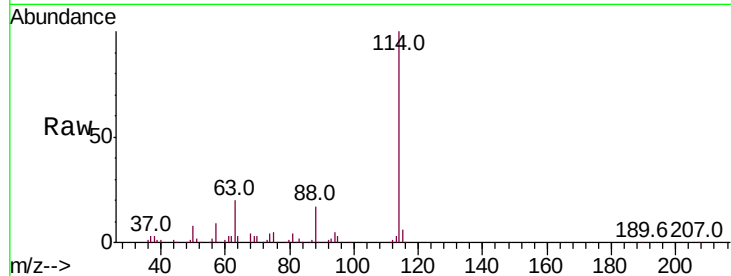


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD063902.D  
 Acq: 10 Oct 2019 11:19

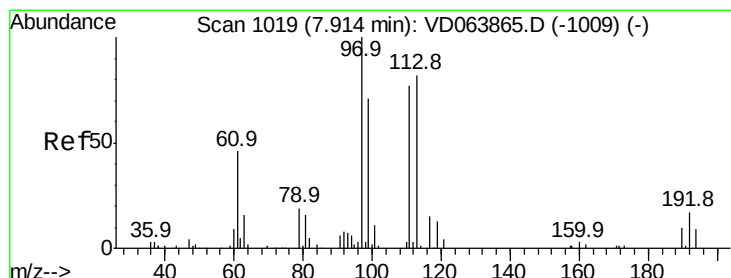
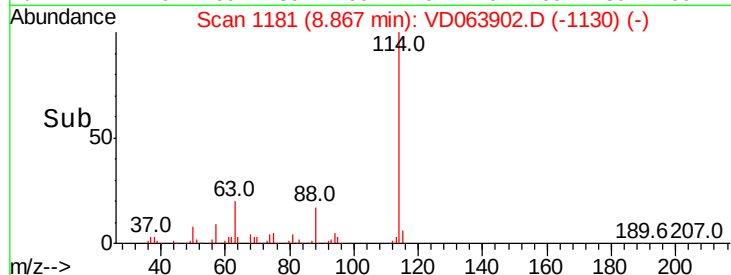
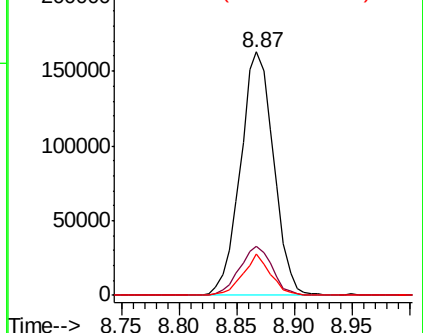
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1010SBL01

Tot Ion:114 Resp: 326316  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 19.9  | 0.0   | 38.4  |
| 88  | 17.0  | 0.0   | 27.4  |



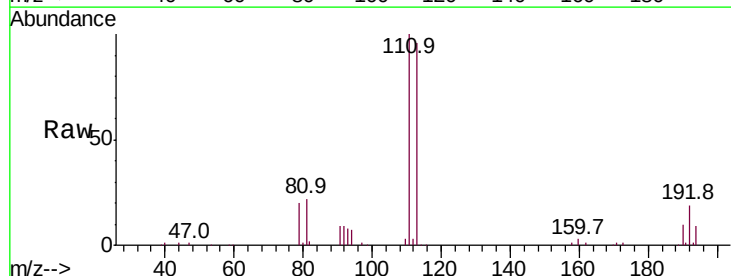
Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V



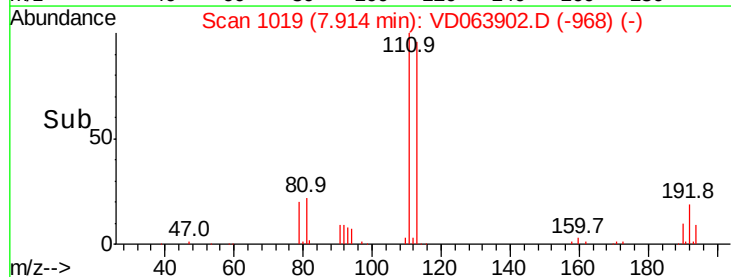
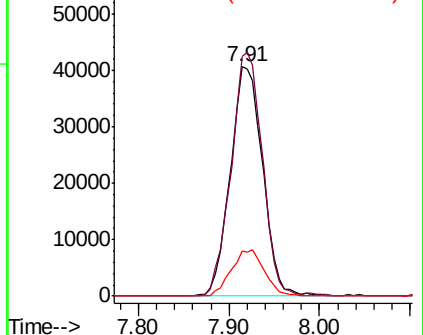
#35  
 Dibromofluoromethane  
 Concen: 50.472 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. -0.00 min  
 Lab File: VD063902.D  
 Acq: 10 Oct 2019 11:19

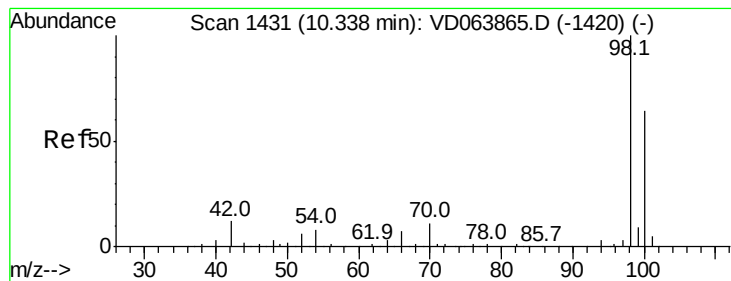
Tgt Ion:113 Resp: 100652  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 102.5 | 82.6  | 123.8 |
| 192 | 20.6  | 17.1  | 25.7  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 51.384 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD063902.D

Acq: 10 Oct 2019 11:19

Instrument :

MSVOA\_D

ClientSampleId :

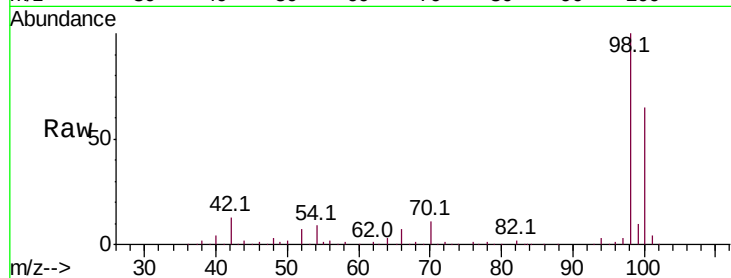
VD1010SBL01

Tot Ion: 98 Resp: 415916

Ion Ratio Lower Upper

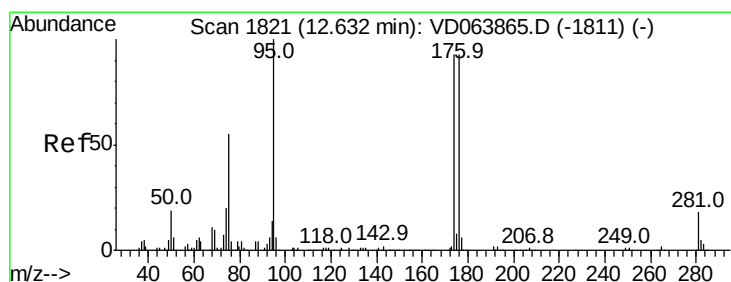
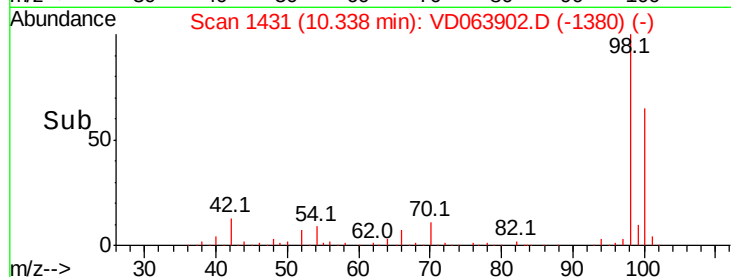
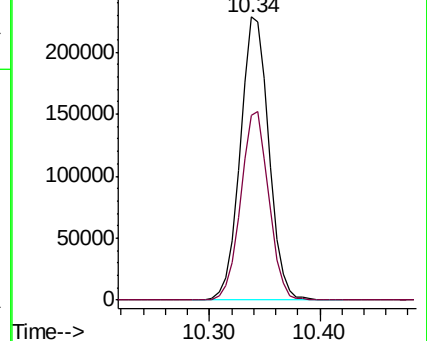
98 100

100 65.4 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#62

4-Bromofluorobenzene

Concen: 45.546 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD063902.D

Acq: 10 Oct 2019 11:19

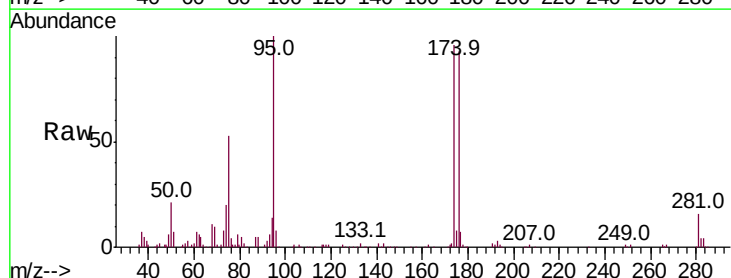
Tgt Ion: 95 Resp: 128109

Ion Ratio Lower Upper

95 100

174 94.1 0.0 186.4

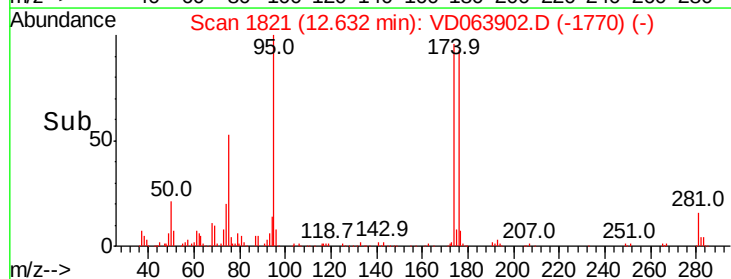
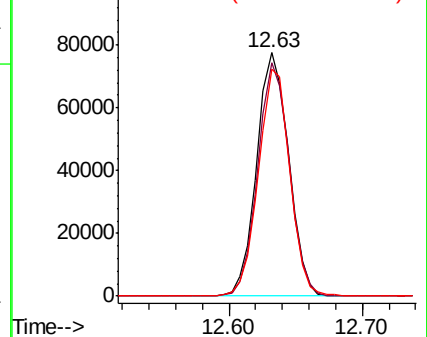
176 91.5 0.0 184.2

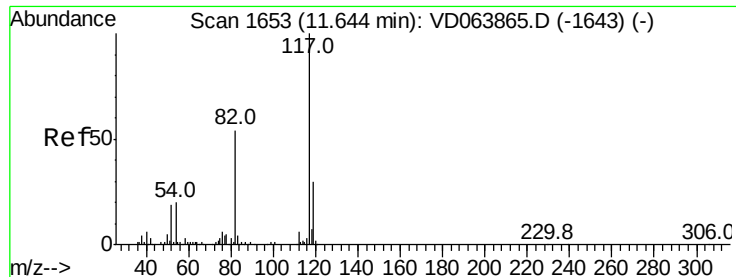


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

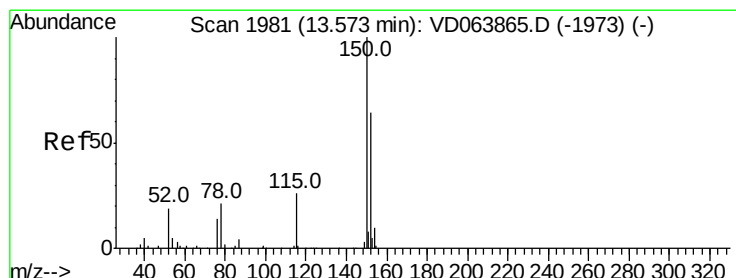
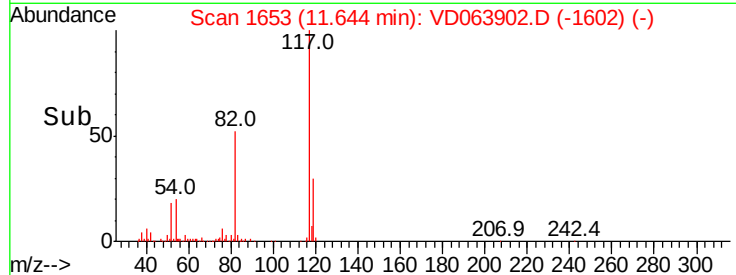
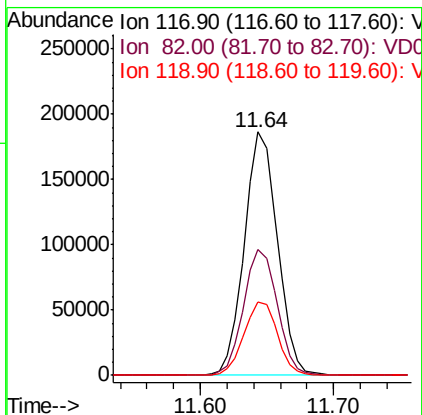
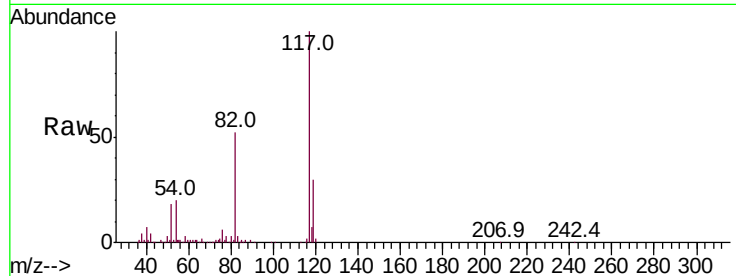




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VD063902.D  
Acq: 10 Oct 2019 11:19

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1010SBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.9  | 42.8  | 64.2  |
| 119     | 30.0  | 24.4  | 36.6  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.57 min Scan# 1981  
Delta R.T. -0.00 min  
Lab File: VD063902.D  
Acq: 10 Oct 2019 11:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.7  | 25.9  | 77.7  |
| 150     | 158.0 | 0.0   | 344.2 |

