

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\  
 Data File : VD058283.D  
 Acq On : 22 Jun 2018 7:38  
 Operator : VA/AP  
 Sample : J3595-03  
 Misc : 6.48g/5ml/MSVOA D/SOIL  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SC-02-AB

Quant Time: Jun 22 08:33:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D061918S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 20 05:52:56 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 15479    | 50.00 | ug/l  | 0.01     |
| 34) 1,4-Difluorobenzene    | 6.70  | 114  | 30141    | 50.00 | ug/l  | 0.01     |
| 63) Chlorobenzene-d5       | 10.69 | 117  | 28684    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.91 | 152  | 10833    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 26566    | 169.92 | ug/l    | 0.01     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 339.84% |          |
| 35) Dibromofluoromethane    | 5.55  | 113  | 18084    | 73.72  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 147.44% |          |
| 50) Toluene-d8              | 8.71  | 98   | 32510    | 54.78  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 109.56% |          |
| 62) 4-Bromofluorobenzene    | 11.93 | 95   | 12585    | 51.91  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 103.82% |          |

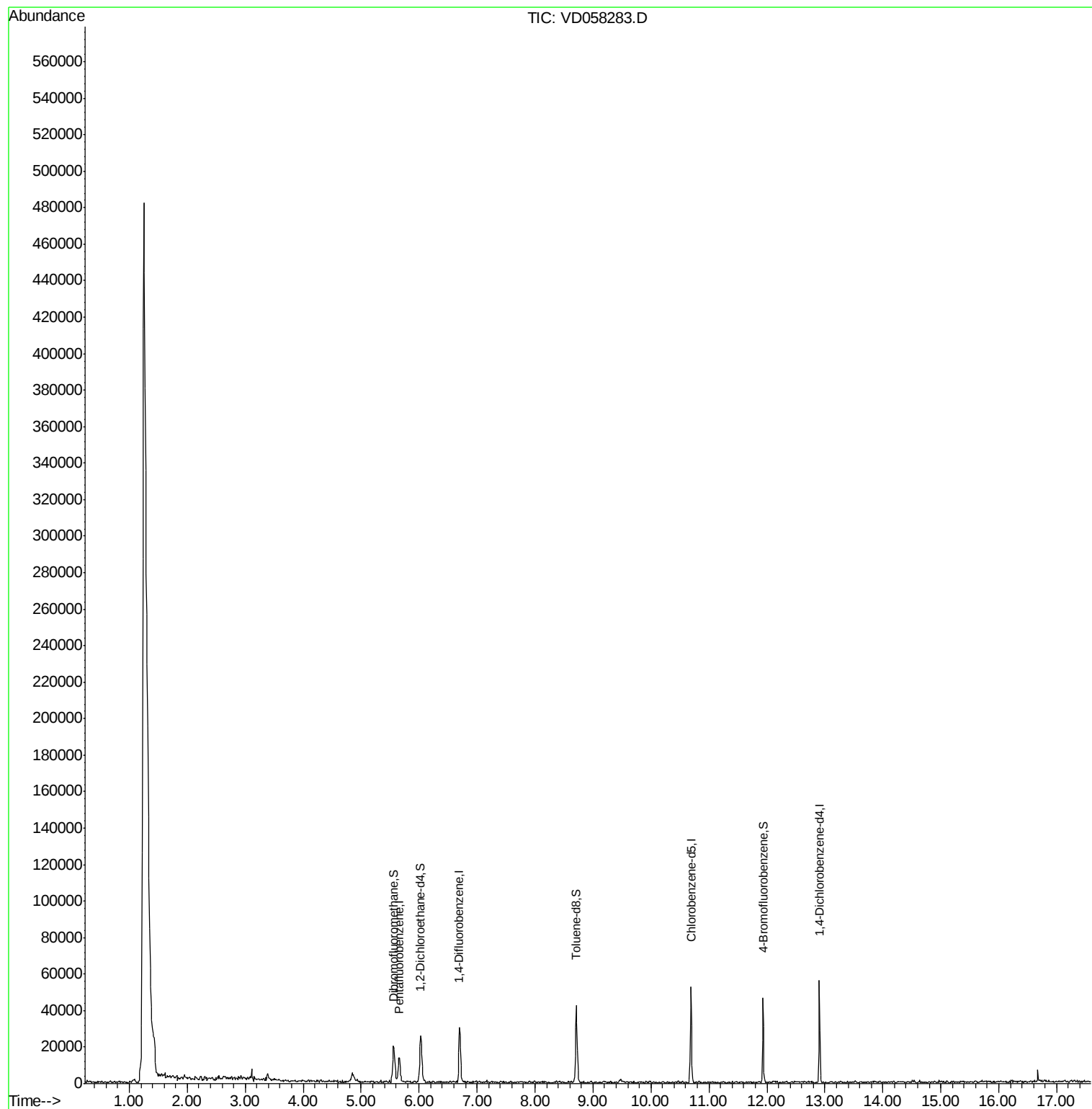
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

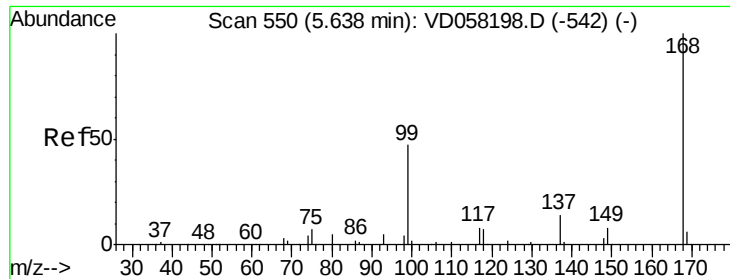
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Jun 20 05:52:56 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058283.D

Acq: 22 Jun 2018 7:38

Instrument :

MSVOA\_D

ClientSampleId :

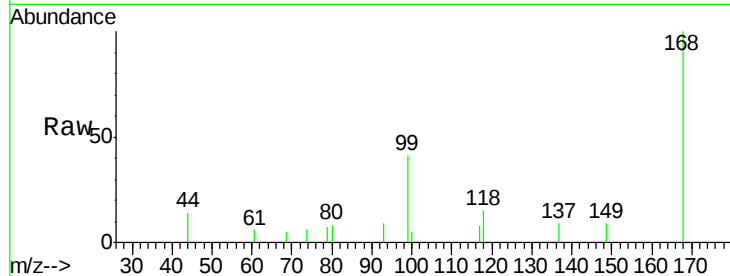
SC-02-AB

Tot Ion:168 Resp: 15479

Ion Ratio Lower Upper

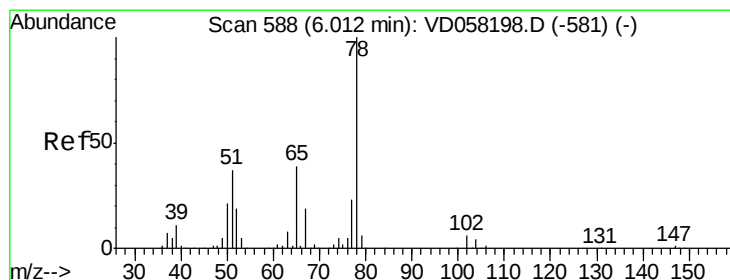
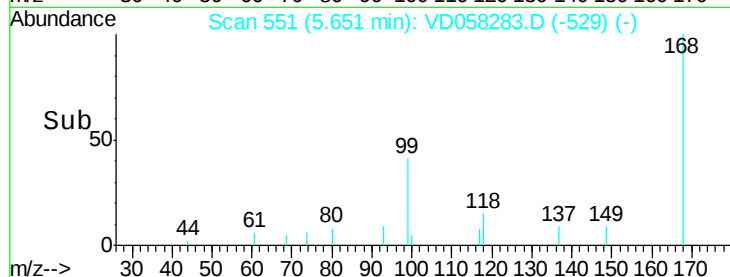
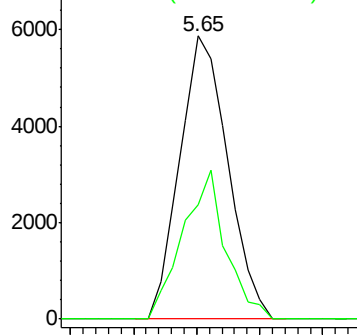
168 100

99 40.5 41.1 61.7#



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: N.D. ug/l

RT: 6.03 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058283.D

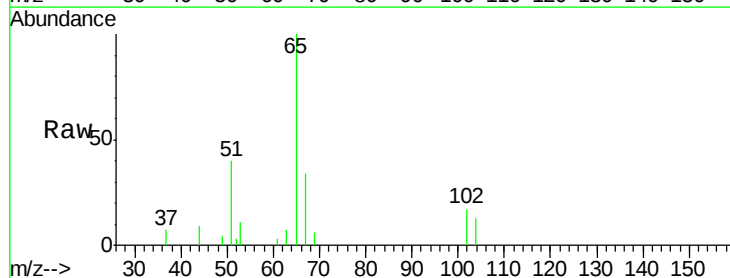
Acq: 22 Jun 2018 7:38

Tgt Ion: 65 Resp: 26566

Ion Ratio Lower Upper

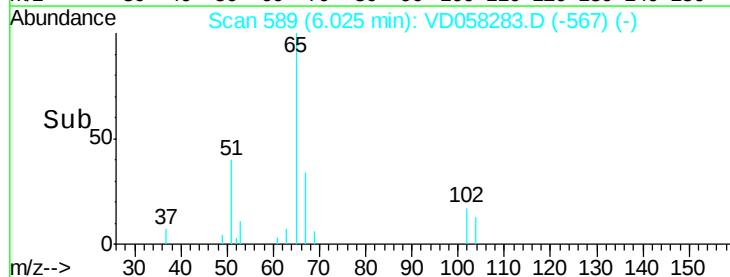
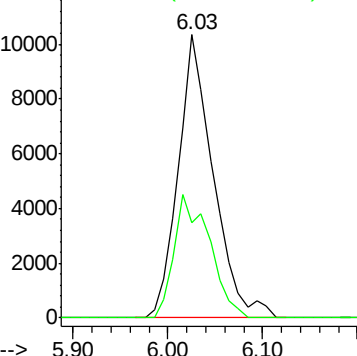
65 100

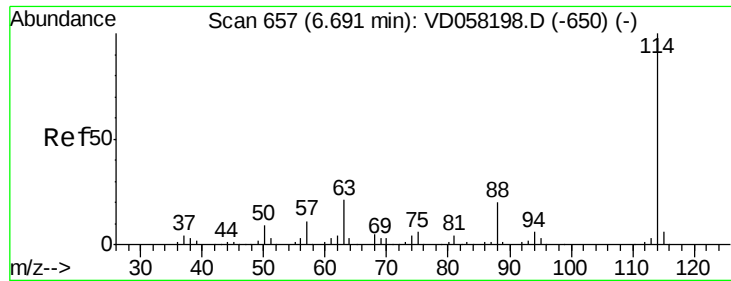
67 33.7 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

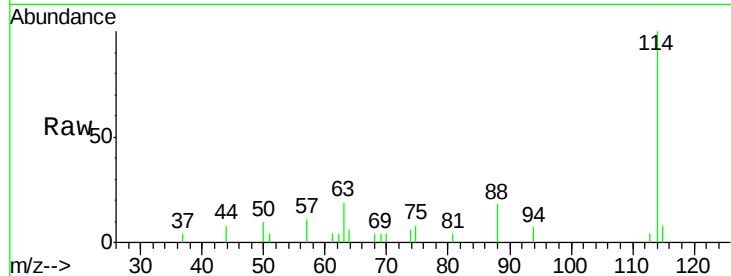




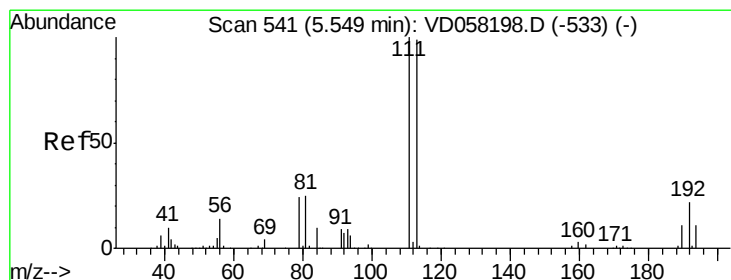
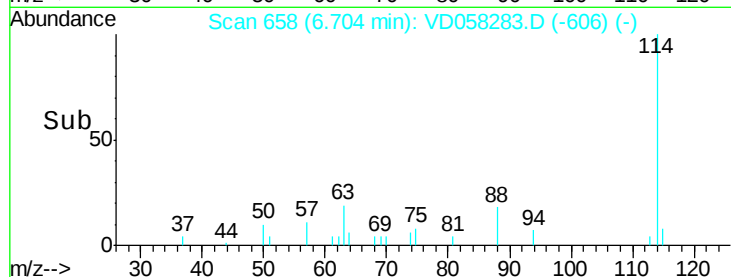
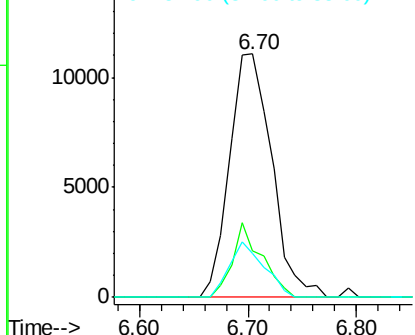
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.70 min Scan# 658  
 Delta R.T. 0.01 min  
 Lab File: VD058283.D  
 Acq: 22 Jun 2018 7:38

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SC-02-AB

Tot Ion:114 Resp: 30141  
 Ion Ratio Lower Upper  
 114 100  
 63 19.1 0.0 42.6  
 88 17.9 0.0 40.6

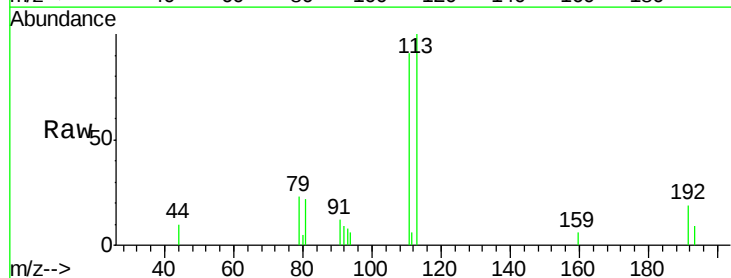


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

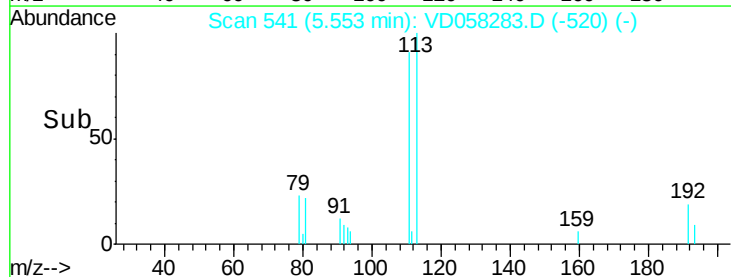
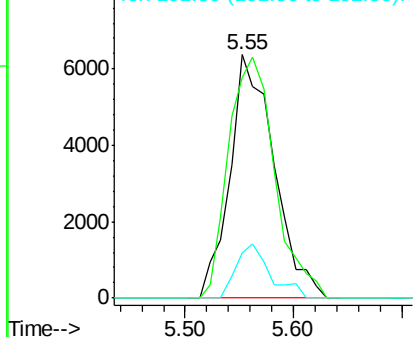


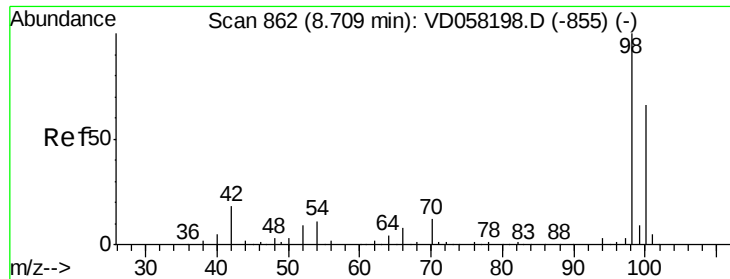
#35  
 Dibromofluoromethane  
 Concen: 50.00 ug/l  
 RT: 5.55 min Scan# 541  
 Delta R.T. 0.00 min  
 Lab File: VD058283.D  
 Acq: 22 Jun 2018 7:38

Tgt Ion:113 Resp: 18084  
 Ion Ratio Lower Upper  
 113 100  
 111 90.6 80.6 121.0  
 192 18.7 17.8 26.6



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

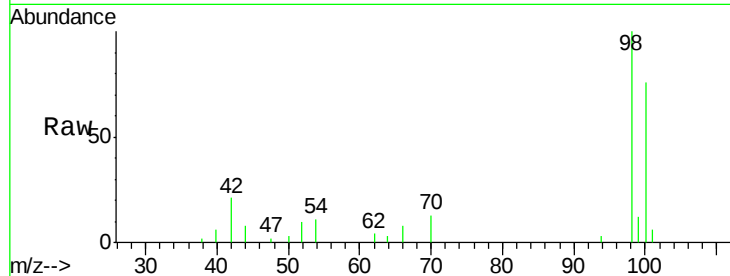




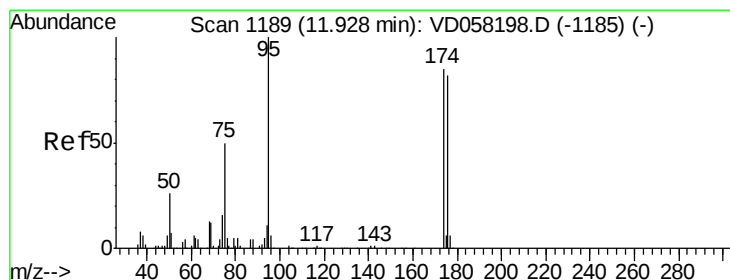
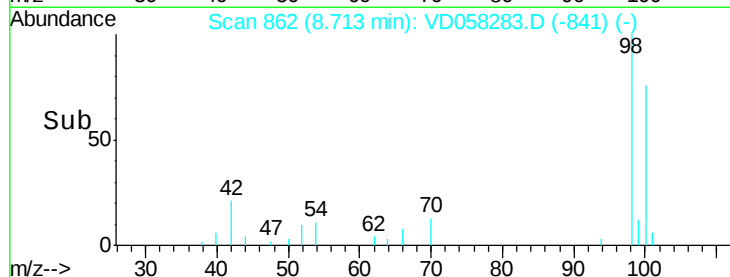
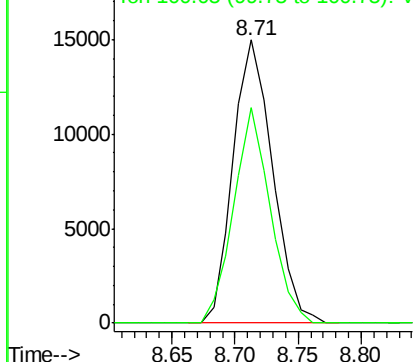
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 8.71 min Scan# 862  
Delta R.T. 0.00 min  
Lab File: VD058283.D  
Acq: 22 Jun 2018 7:38

Instrument :  
MSVOA\_D  
ClientSampleId :  
SC-02-AB

Tot Ion: 98 Resp: 32510  
Ion Ratio Lower Upper  
98 100  
100 76.1 53.6 80.4

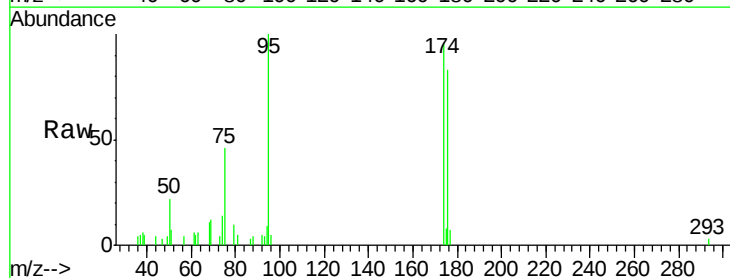


Abundance Ion 98.05 (97.75 to 98.75): VD0  
Ion 100.05 (99.75 to 100.75): VD

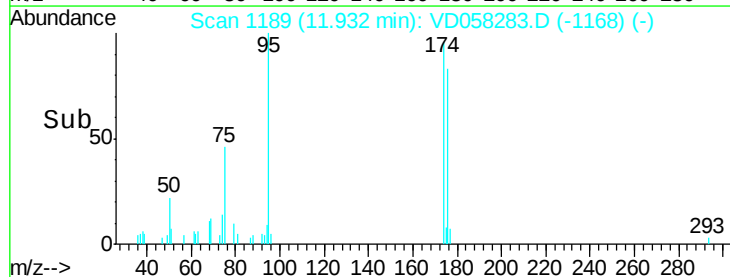
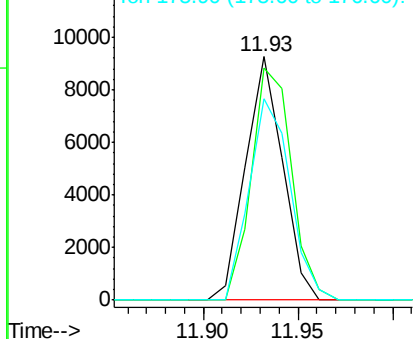


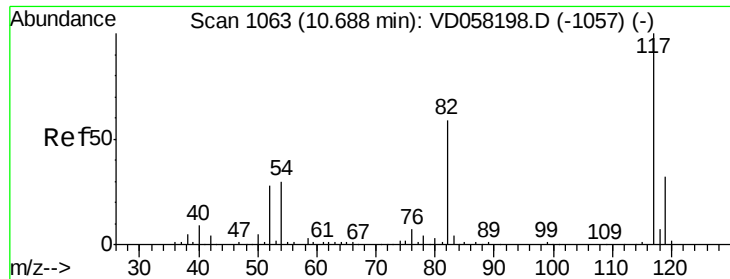
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 11.93 min Scan# 1189  
Delta R.T. 0.00 min  
Lab File: VD058283.D  
Acq: 22 Jun 2018 7:38

Tgt Ion: 95 Resp: 12585  
Ion Ratio Lower Upper  
95 100  
174 95.5 0.0 170.2  
176 82.9 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): VD0  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

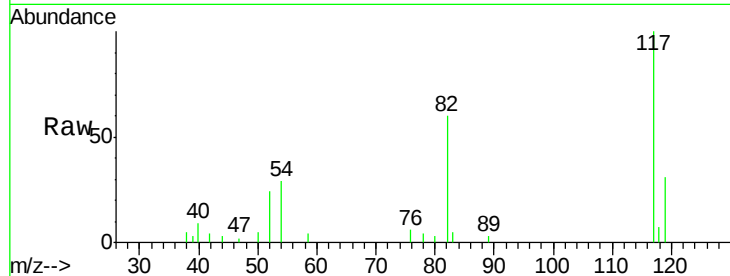




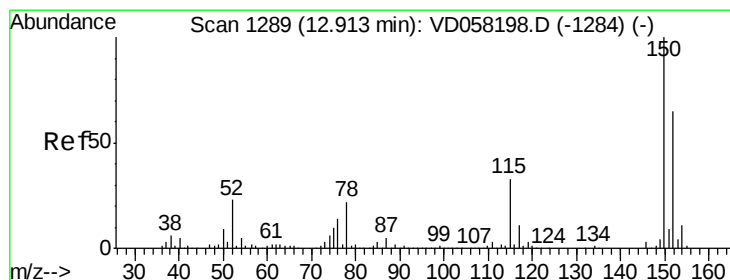
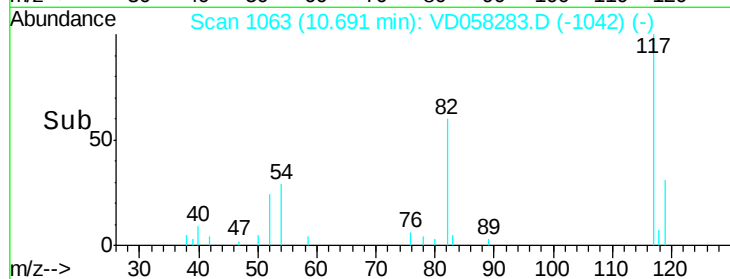
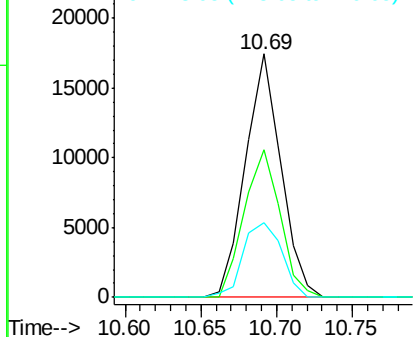
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.69 min Scan# 1063  
Delta R.T. 0.00 min  
Lab File: VD058283.D  
Acq: 22 Jun 2018 7:38

Instrument :  
MSVOA\_D  
ClientSampleId :  
SC-02-AB

Tot Ion:117 Resp: 28684  
Ion Ratio Lower Upper  
117 100  
82 60.4 47.0 70.6  
119 30.6 25.3 37.9

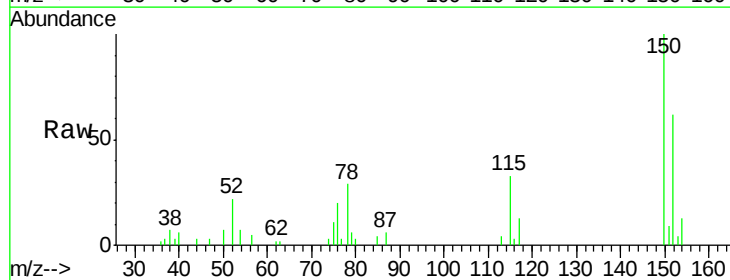


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.91 min Scan# 1288  
Delta R.T. -0.01 min  
Lab File: VD058283.D  
Acq: 22 Jun 2018 7:38

Tgt Ion:152 Resp: 10833  
Ion Ratio Lower Upper  
152 100  
115 53.3 25.1 75.3  
150 162.2 0.0 308.8



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

