

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081518\  
 Data File : VD059804.D  
 Acq On : 15 Aug 2018 19:15  
 Operator : VA/AP  
 Sample : J4478-02  
 Misc : 9.15g/5ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RICH-REC-ROAD-STONE-5

Quant Time: Aug 16 08:16:15 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081518S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 15 16:08:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.62  | 168  | 217828   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 6.68  | 114  | 260559   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.68 | 117  | 222257   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 109280   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.00  | 65   | 148869   | 53.19 | ug/l    | -0.02    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 106.38% |          |
| 35) Dibromofluoromethane    | 5.52  | 113  | 120916   | 53.25 | ug/l    | -0.02    |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 106.50% |          |
| 50) Toluene-d8              | 8.70  | 98   | 265699   | 49.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 98.80%  |          |
| 62) 4-Bromofluorobenzene    | 11.93 | 95   | 109642   | 45.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 91.02%  |          |

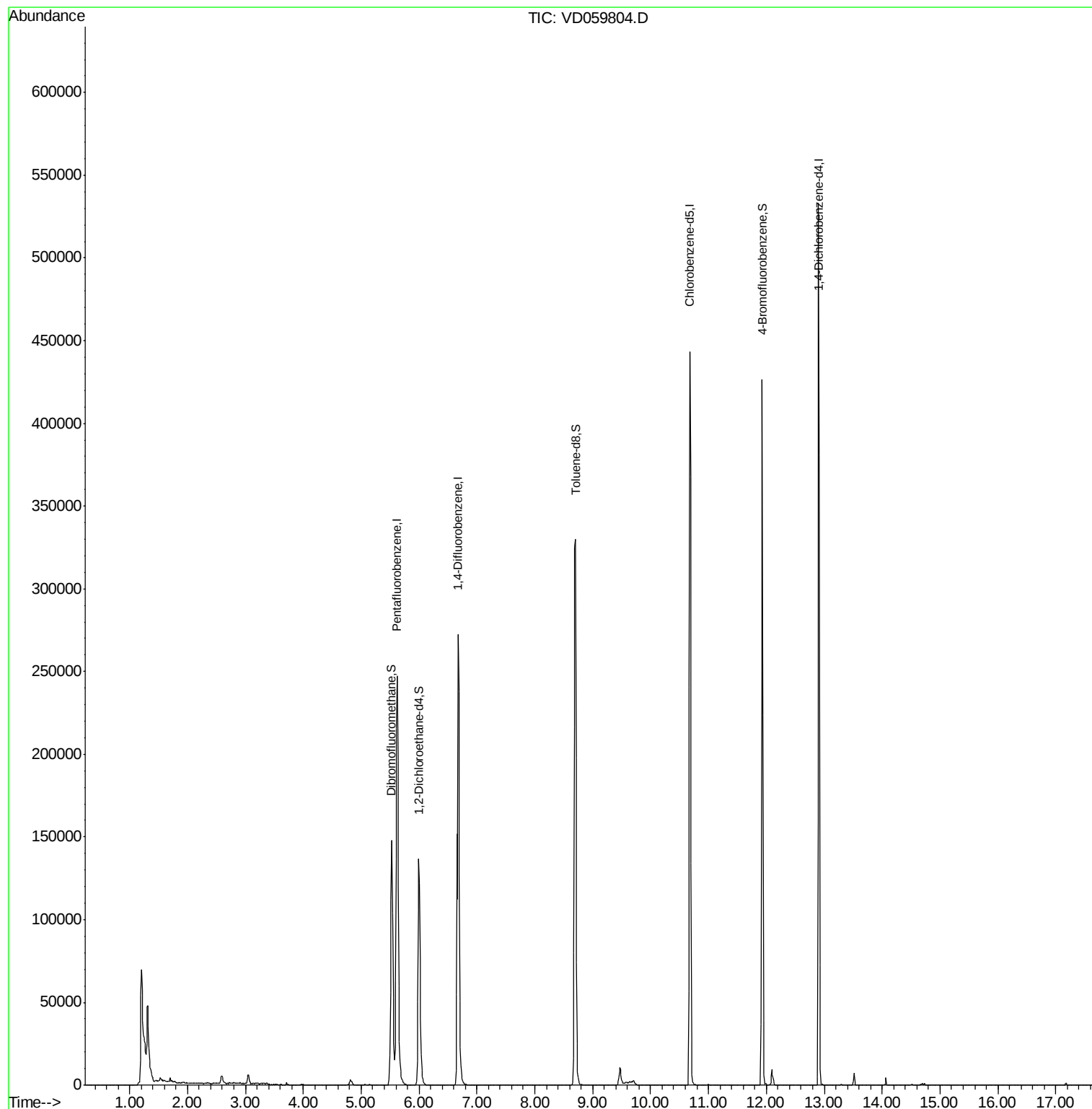
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

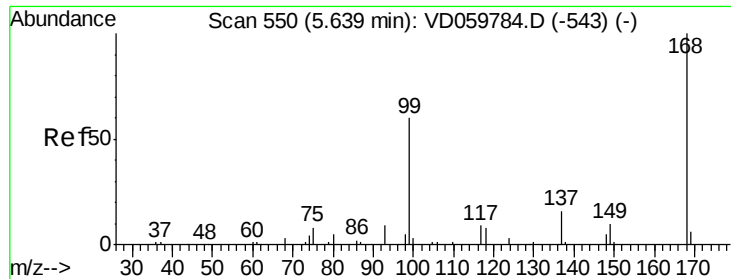
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081518\  
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Sample : J4478-02  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
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RICH-REC-ROAD-STONE-5

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Quant Title : SW846 8260  
QLast Update : Wed Aug 15 16:08:23 2018  
Response via : Initial Calibration

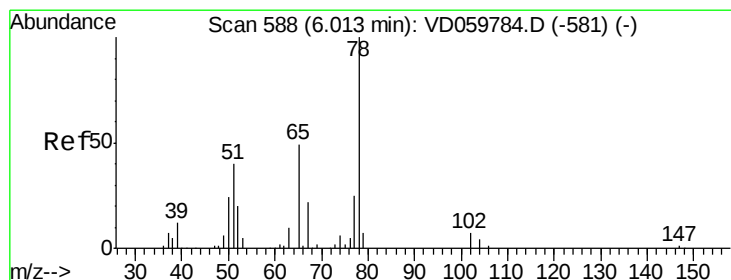
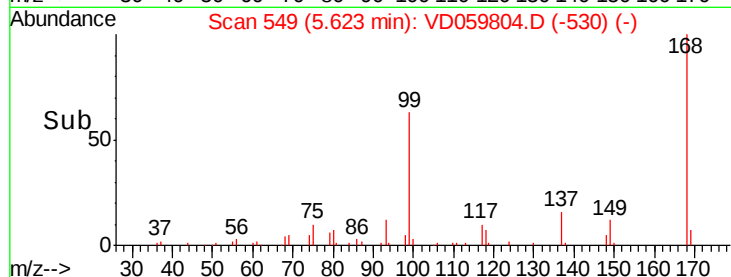
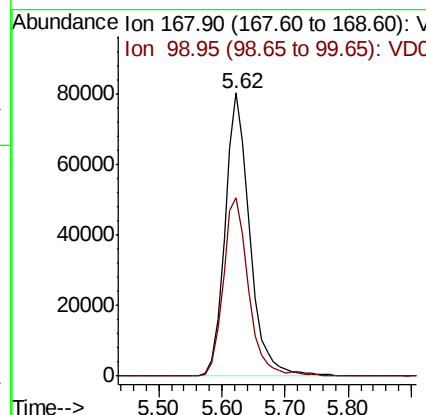
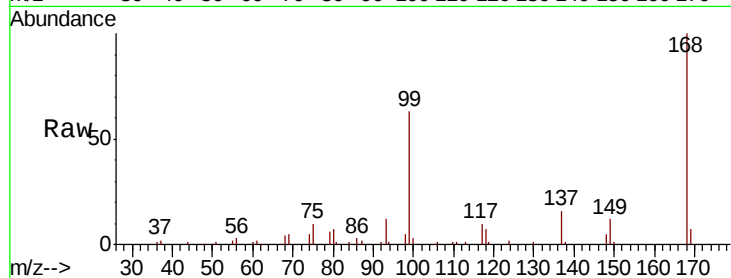




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.62 min Scan# 549  
Delta R.T. -0.02 min  
Lab File: VD059804.D  
Acq: 15 Aug 2018 19:15

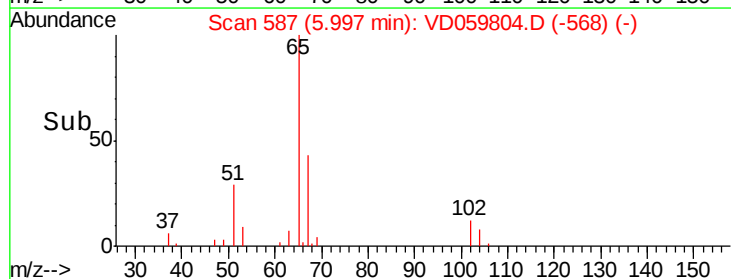
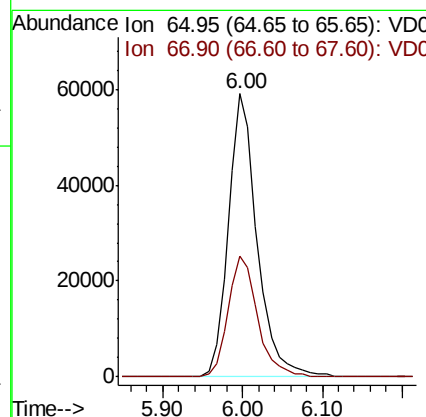
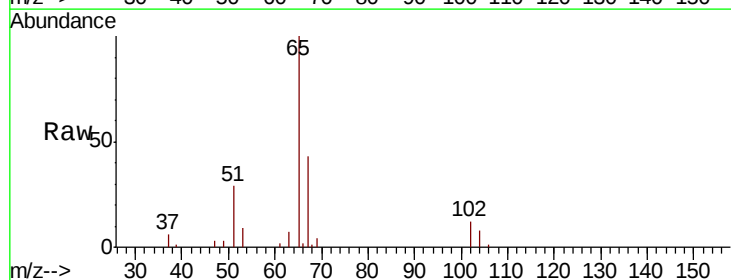
Instrument :  
MSVOA\_D  
ClientSampleId :  
RICH-REC-ROAD-STONE-5

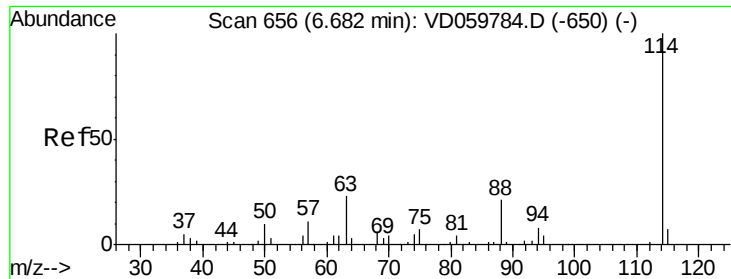
Tot Ion:168 Resp: 217828  
Ion Ratio Lower Upper  
168 100  
99 63.0 50.3 75.5



#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
RT: 6.00 min Scan# 587  
Delta R.T. -0.02 min  
Lab File: VD059804.D  
Acq: 15 Aug 2018 19:15

Tgt Ion: 65 Resp: 148869  
Ion Ratio Lower Upper  
65 100  
67 42.7 0.0 87.8

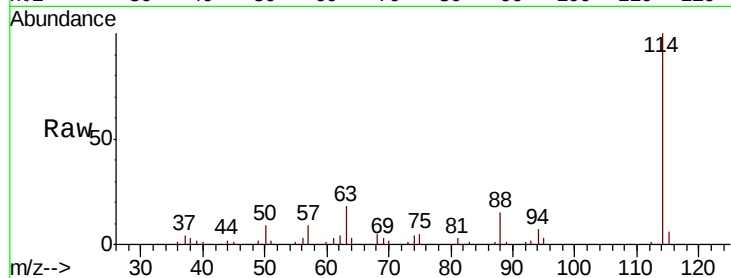




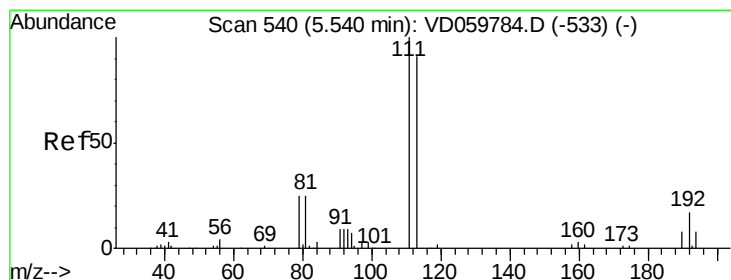
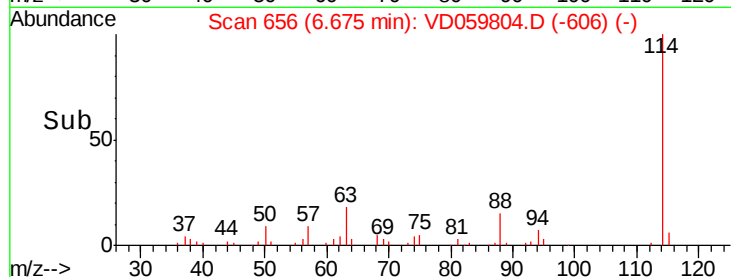
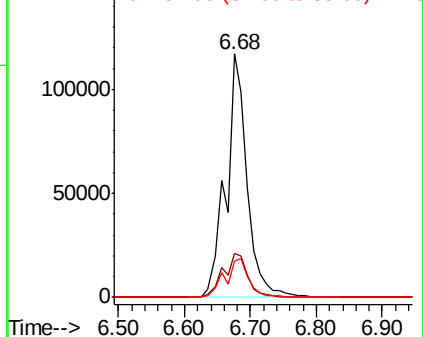
#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.68 min Scan# 656  
 Delta R.T. -0.01 min  
 Lab File: VD059804.D  
 Acq: 15 Aug 2018 19:15

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RICH-REC-ROAD-STONE-5

Tot Ion:114 Resp: 260559  
 Ion Ratio Lower Upper  
 114 100  
 63 18.0 0.0 45.0  
 88 14.9 0.0 41.2

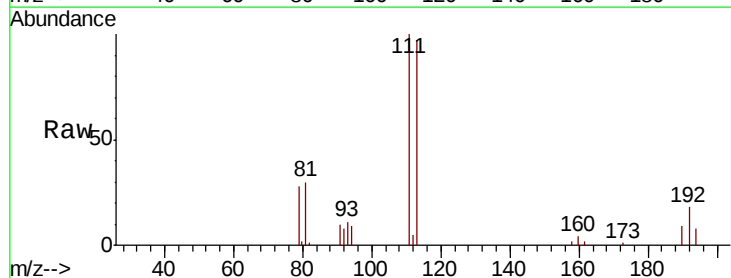


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

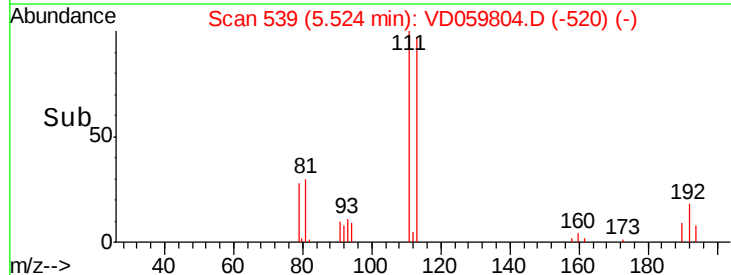
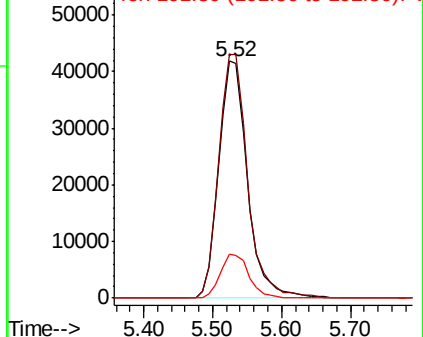


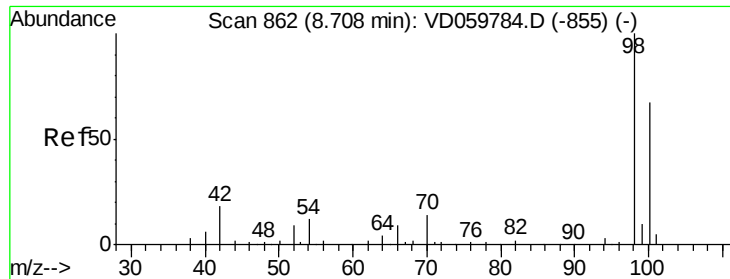
#35  
 Dibromofluoromethane  
 Concen: 50.00 ug/l  
 RT: 5.52 min Scan# 539  
 Delta R.T. -0.02 min  
 Lab File: VD059804.D  
 Acq: 15 Aug 2018 19:15

Tgt Ion:113 Resp: 120916  
 Ion Ratio Lower Upper  
 113 100  
 111 102.8 87.7 131.5  
 192 18.7 14.6 21.8



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

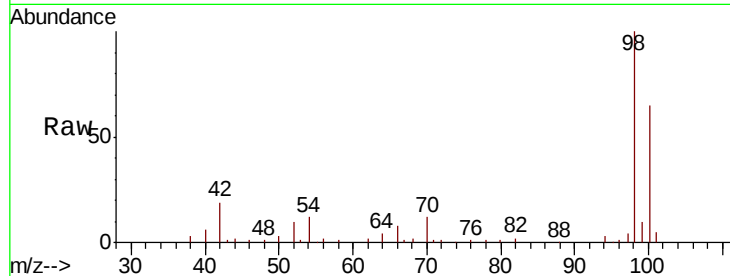




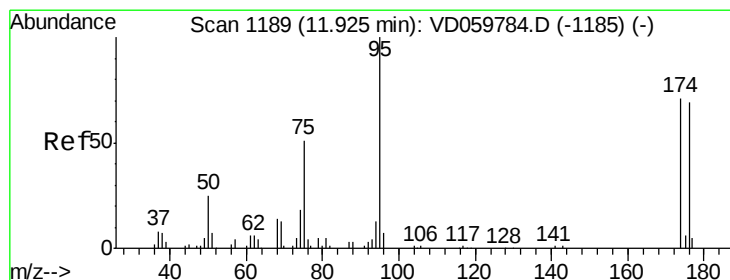
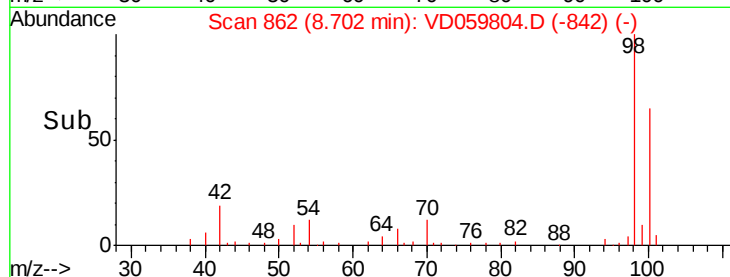
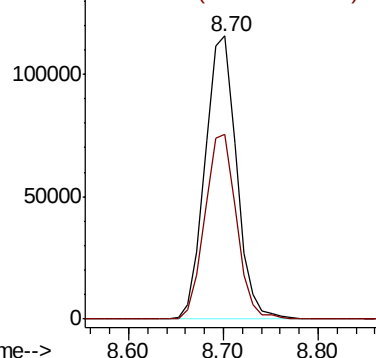
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 8.70 min Scan# 862  
Delta R.T. -0.01 min  
Lab File: VD059804.D  
Acq: 15 Aug 2018 19:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
RICH-REC-ROAD-STONE-5

Tot Ion: 98 Resp: 265699  
Ion Ratio Lower Upper  
98 100  
100 65.1 54.2 81.4

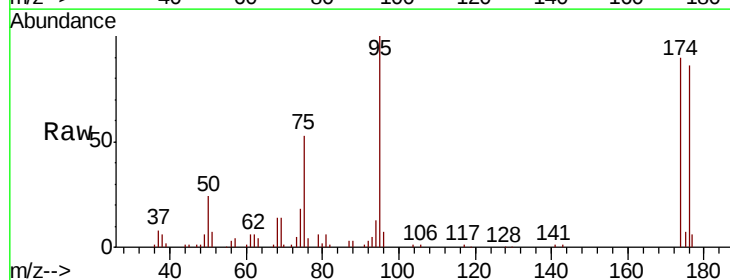


Abundance Ion 98.05 (97.75 to 98.75): VD059784.D (-855) (-)  
Ion 100.05 (99.75 to 100.75): VD059784.D (-855) (-)

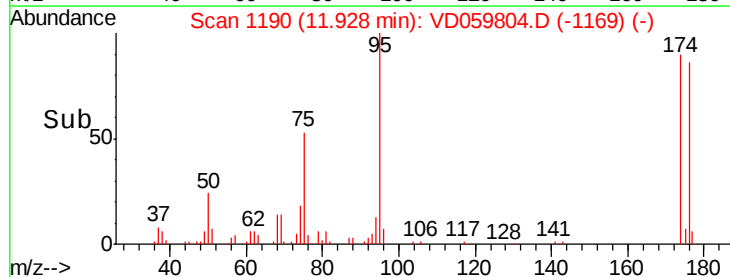
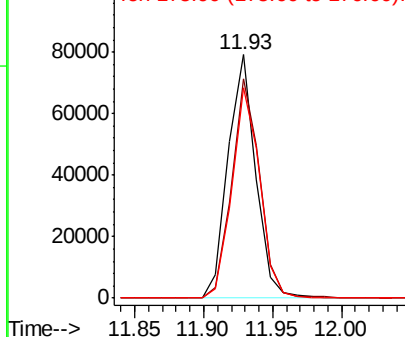


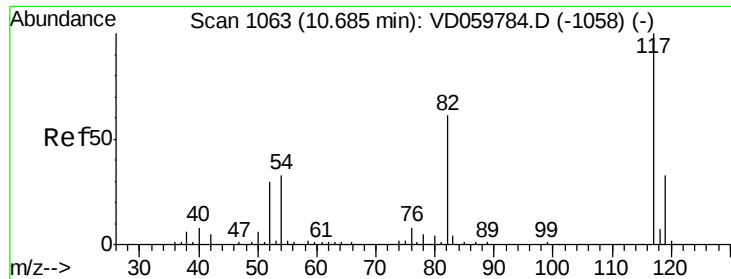
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 11.93 min Scan# 1190  
Delta R.T. 0.00 min  
Lab File: VD059804.D  
Acq: 15 Aug 2018 19:15

Tgt Ion: 95 Resp: 109642  
Ion Ratio Lower Upper  
95 100  
174 89.8 0.0 142.2  
176 86.3 0.0 137.4



Abundance Ion 95.00 (94.70 to 95.70): VD059784.D (-1185) (-)  
Ion 173.90 (173.60 to 174.60): VD059784.D (-1185) (-)  
Ion 175.90 (175.60 to 176.60): VD059784.D (-1185) (-)

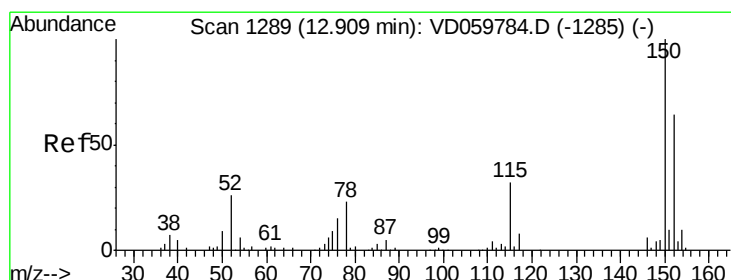
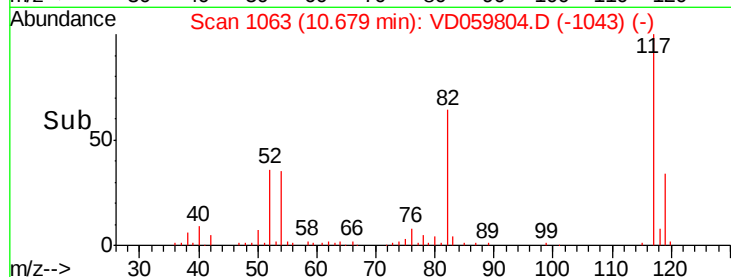
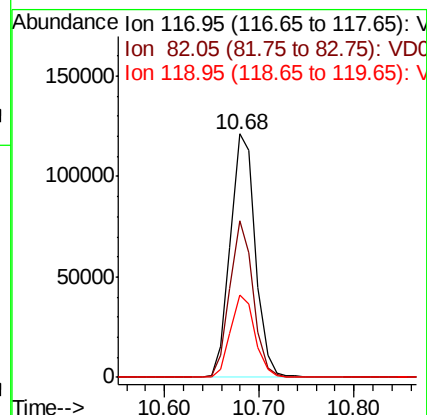
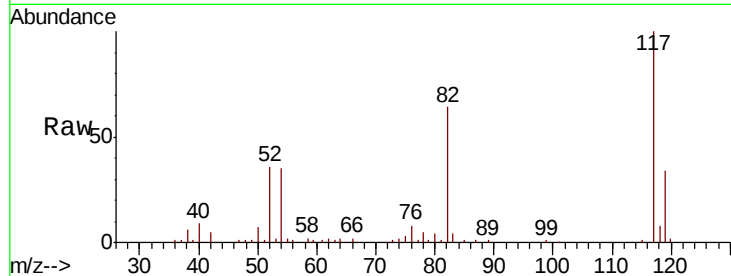




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.68 min Scan# 1063  
Delta R.T. -0.01 min  
Lab File: VD059804.D  
Acq: 15 Aug 2018 19:15

Instrument :  
MSVOA\_D  
ClientSampleId :  
RICH-REC-ROAD-STONE-5

Tot Ion:117 Resp: 222257  
Ion Ratio Lower Upper  
117 100  
82 64.1 49.0 73.6  
119 33.9 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.90 min Scan# 1289  
Delta R.T. -0.01 min  
Lab File: VD059804.D  
Acq: 15 Aug 2018 19:15

Tgt Ion:152 Resp: 109280  
Ion Ratio Lower Upper  
152 100  
115 60.6 27.2 81.5  
150 153.8 0.0 312.4

