

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091918\  
 Data File : VD060042.D  
 Acq On : 19 Sep 2018 15:46  
 Operator : JC/SY  
 Sample : J4993-04  
 Misc : 5.13g/5ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 NS-SLUDGE

Quant Time: Sep 21 16:26:40 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      | 6.42  | 168  | 6575     | 50.00 | ug/l  | 0.04     |
| 34) 1,4-Difluorobenzene    | 7.45  | 114  | 11180    | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 11.29 | 117  | 7945     | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 13.38 | 152  | 4203     | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.79  | 65   | 4680     | 91.28 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 182.56% |          |
| 35) Dibromofluoromethane    | 6.33  | 113  | 4434     | 50.76 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 101.52% |          |
| 50) Toluene-d8              | 0.00  | 98   | 0d       | 0.00  | ug/l    |          |
| Spiked Amount               |       |      | Recovery | =     | 0.00%   |          |
| 62) 4-Bromofluorobenzene    | 12.43 | 95   | 3484     | 37.67 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 75.34%  |          |

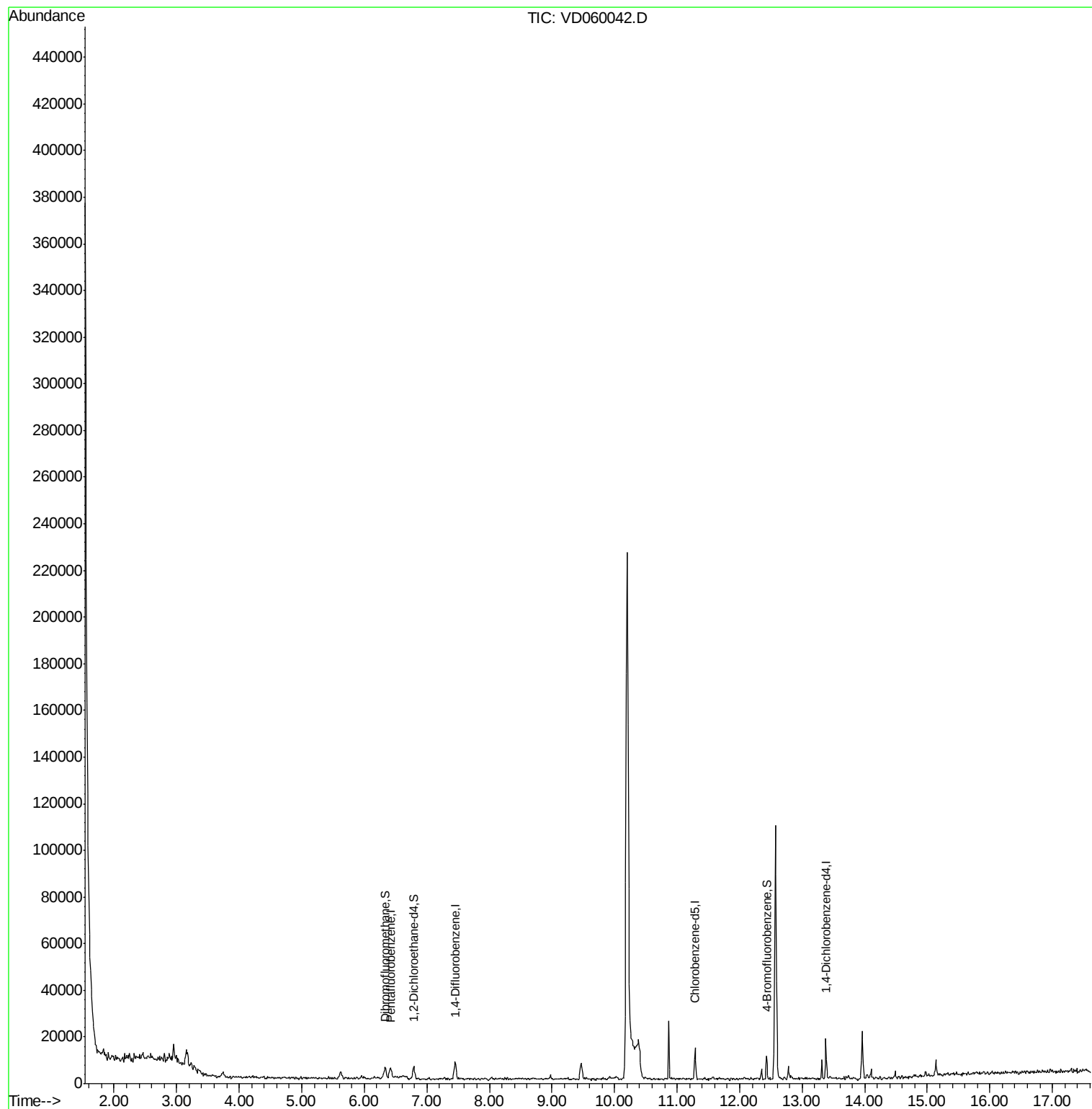
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

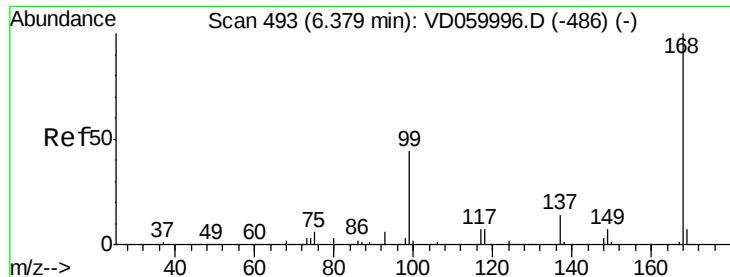
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Sep 13 16:17:40 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.42 min Scan# 497

Delta R.T. 0.04 min

Lab File: VD060042.D

Acq: 19 Sep 2018 15:46

Instrument :

MSVOA\_D

ClientSampleId :

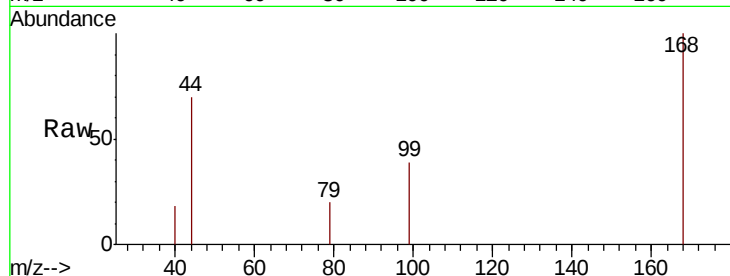
NS-SLUDGE

Tot Ion:168 Resp: 6575

Ion Ratio Lower Upper

168 100

99 38.6 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.42

3000

2500

2000

1500

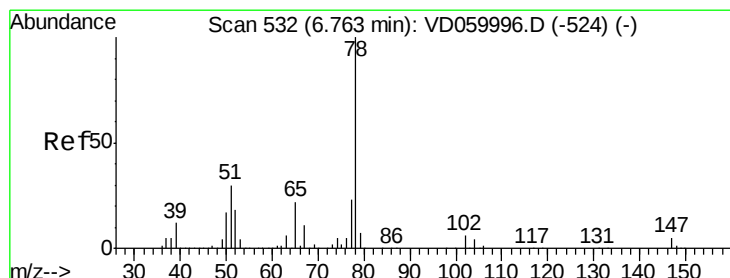
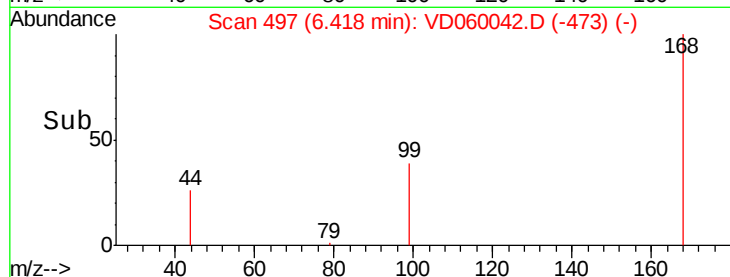
1000

500

0

6.35 6.40 6.45 6.50

Time-->



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.79 min Scan# 535

Delta R.T. 0.03 min

Lab File: VD060042.D

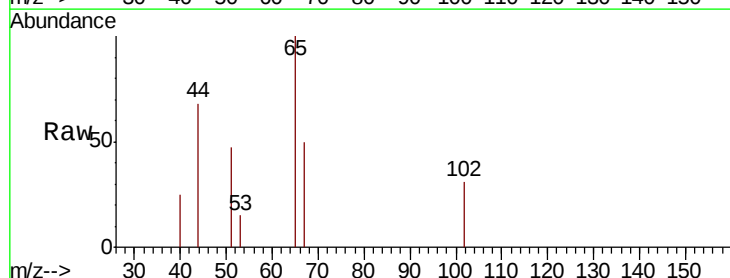
Acq: 19 Sep 2018 15:46

Tgt Ion: 65 Resp: 4680

Ion Ratio Lower Upper

65 100

67 49.7 0.0 104.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

2500

2000

1500

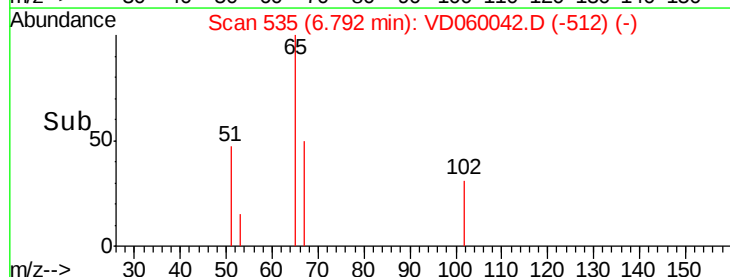
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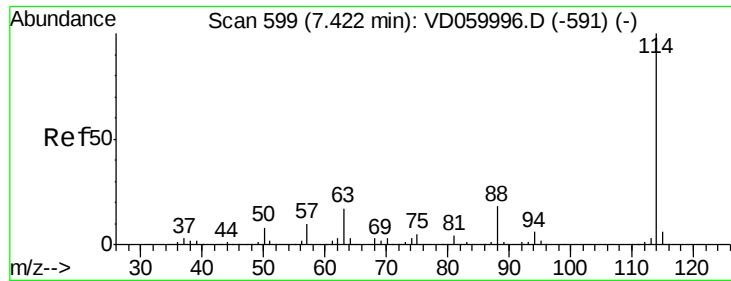
500

0

6.70 6.75 6.80 6.85

Time-->

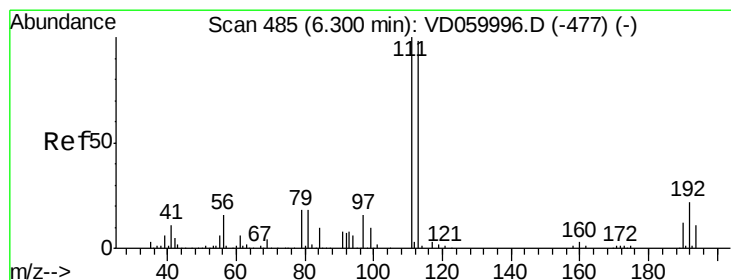
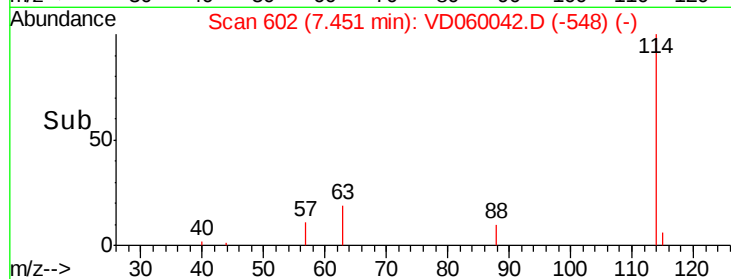
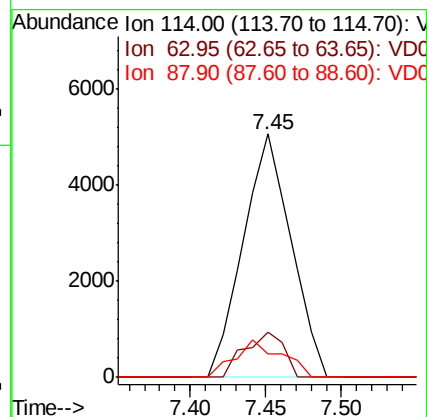
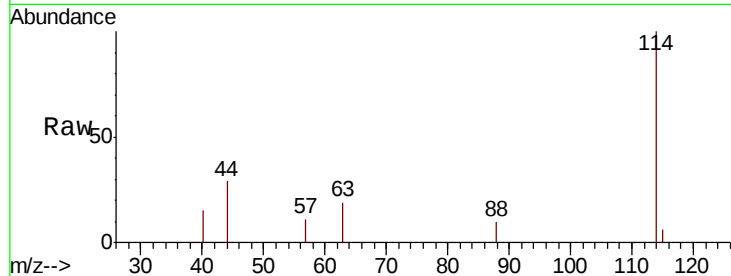




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.45 min Scan# 602  
 Delta R.T. 0.03 min  
 Lab File: VD060042.D  
 Acq: 19 Sep 2018 15:46

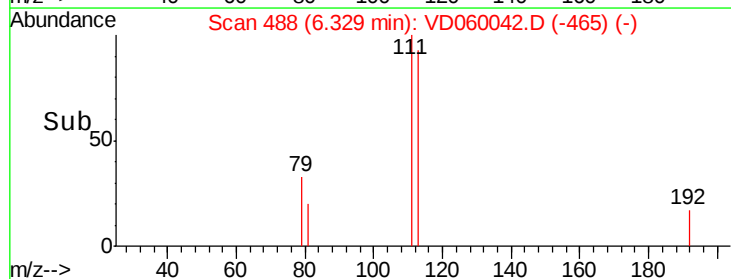
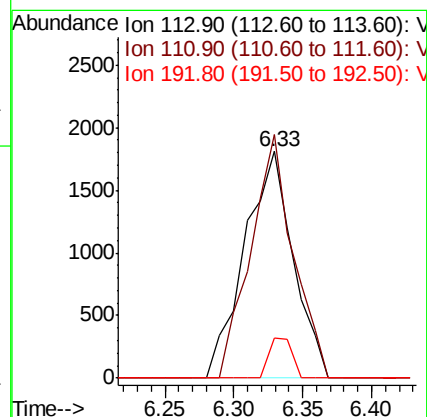
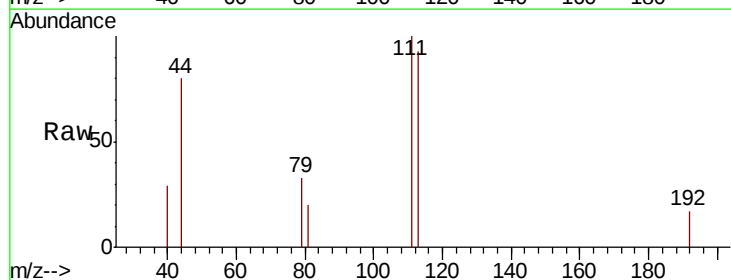
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 NS-SLUDGE

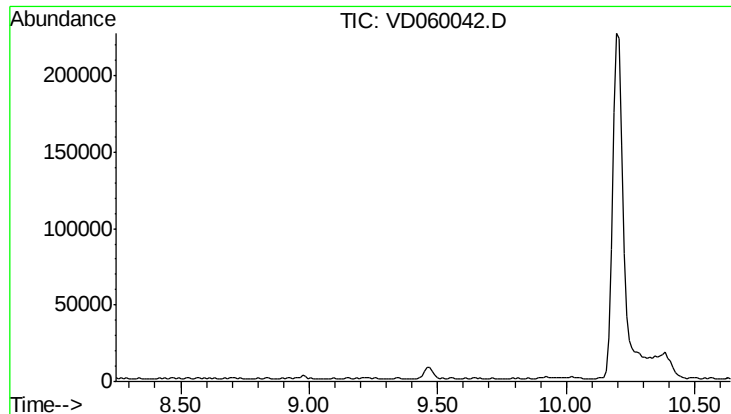
Tot Ion:114 Resp: 11180  
 Ion Ratio Lower Upper  
 114 100  
 63 18.8 0.0 34.4  
 88 9.7 0.0 35.8



#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.33 min Scan# 488  
 Delta R.T. 0.03 min  
 Lab File: VD060042.D  
 Acq: 19 Sep 2018 15:46

Tgt Ion:113 Resp: 4434  
 Ion Ratio Lower Upper  
 113 100  
 111 107.3 81.3 121.9  
 192 17.9 18.1 27.1#

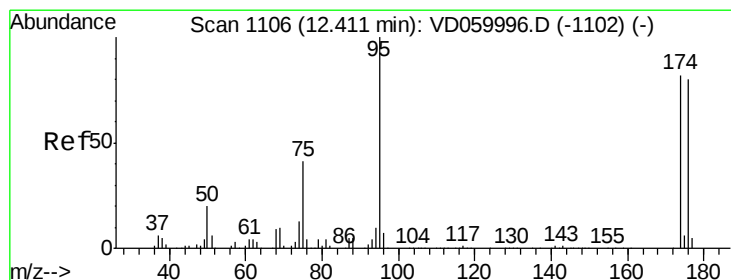
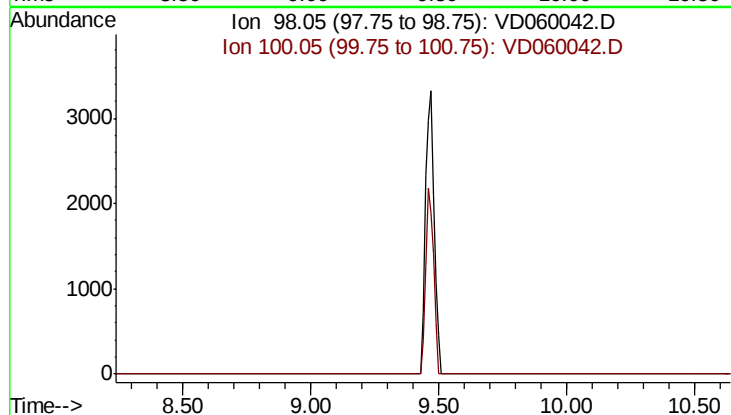




#50  
Toluene-d8  
Concen: N.D. ug/l  
Expected RT: 9.44 min  
Lab File: VD060042.D  
Acq: 19 Sep 2018 15:46

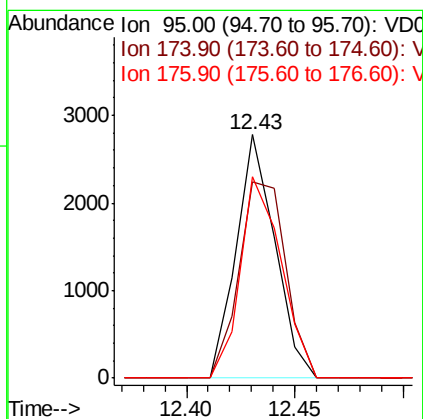
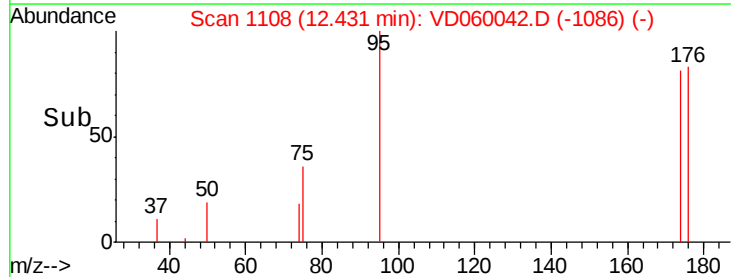
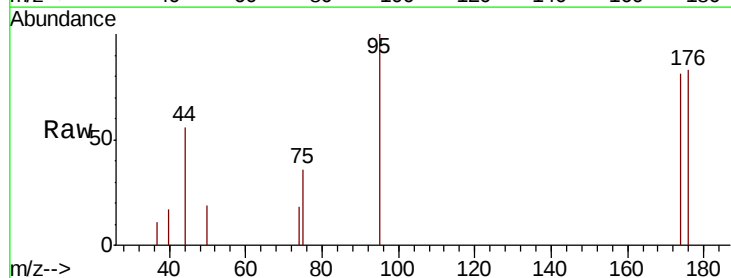
Instrument :  
MSVOA\_D  
ClientSampleId :  
NS-SLUDGE

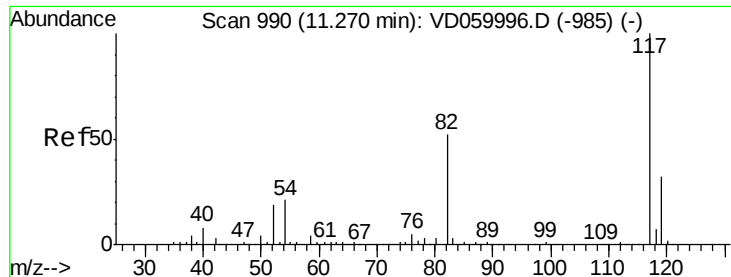
Tot Ion: 98  
Sig Exp Ratio  
98 100  
100 69.7



#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.43 min Scan# 1108  
Delta R.T. 0.02 min  
Lab File: VD060042.D  
Acq: 19 Sep 2018 15:46

Tgt Ion: 95 Resp: 3484  
Ion Ratio Lower Upper  
95 100  
174 80.8 0.0 165.0  
176 82.6 0.0 160.2

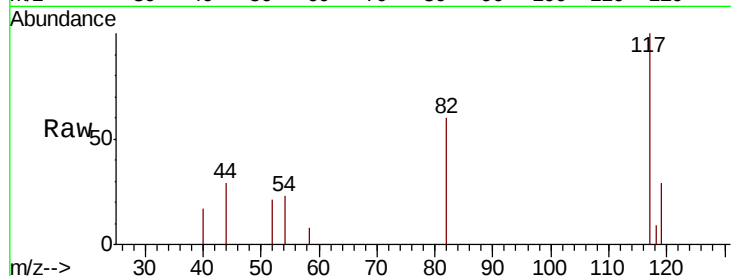




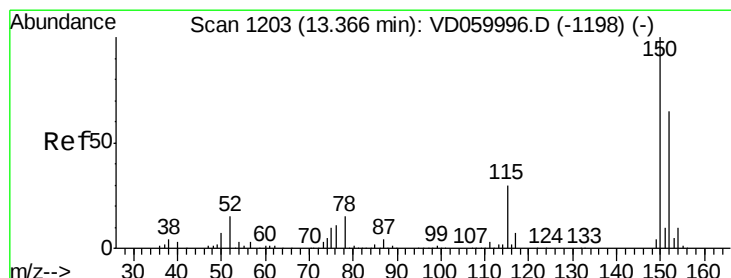
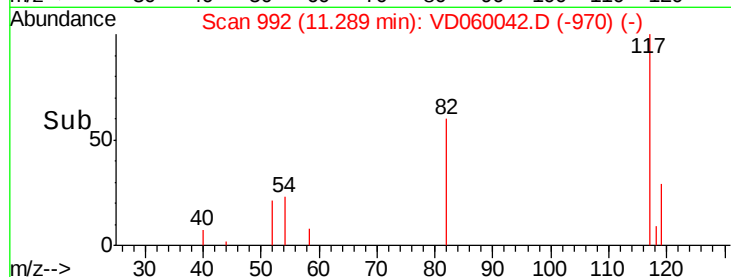
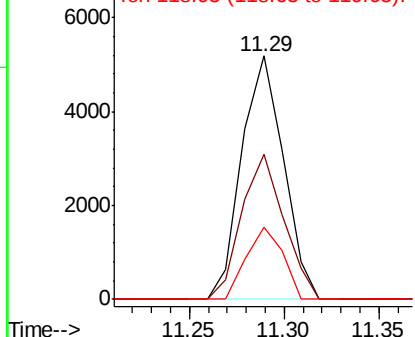
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.29 min Scan# 992  
Delta R.T. 0.02 min  
Lab File: VD060042.D  
Acq: 19 Sep 2018 15:46

Instrument :  
MSVOA\_D  
ClientSampleId :  
NS-SLUDGE

Tot Ion:117 Resp: 7945  
Ion Ratio Lower Upper  
117 100  
82 59.7 41.7 62.5  
119 29.5 26.0 39.0

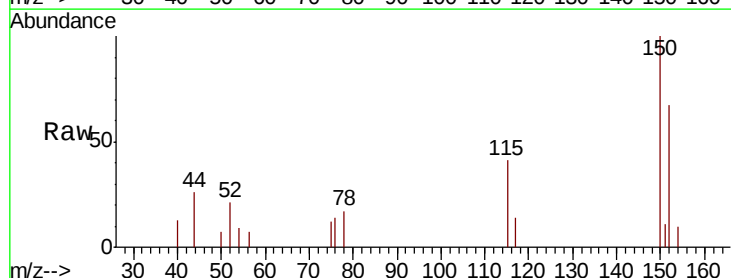


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.38 min Scan# 1204  
Delta R.T. 0.01 min  
Lab File: VD060042.D  
Acq: 19 Sep 2018 15:46

Tgt Ion:152 Resp: 4203  
Ion Ratio Lower Upper  
152 100  
115 61.4 24.6 73.8  
150 150.1 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

