

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060519\  
 Data File : VX010088.D  
 Acq On : 05 Jun 2019 19:35  
 Operator : JC/SP  
 Sample : K3195-11  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z1-TB07-190603

Quant Time: Jun 06 07:27:33 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 29 04:00:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 174920   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 278895   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 249618   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 108119   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 114878   | 46.49 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.98% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 86609    | 49.39 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.78% |          |
| 50) Toluene-d8              | 8.71  | 98   | 351197   | 49.32 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.64% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 117537   | 45.96 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.92% |          |

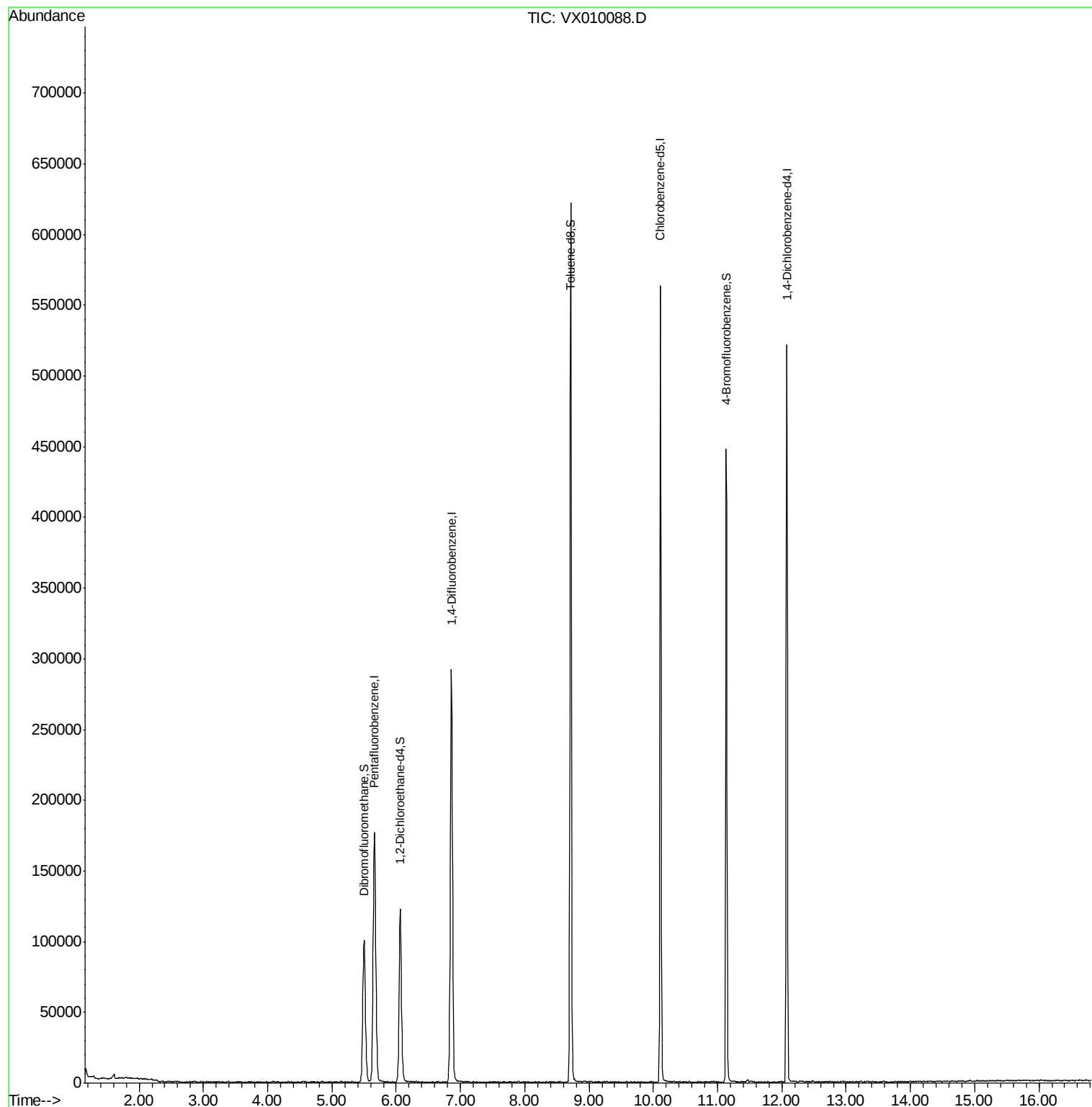
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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Quant Title : SW846 8260  
QLast Update : Wed May 29 04:00:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010088.D

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Instrument :

MSVOA\_X

ClientSampleId :

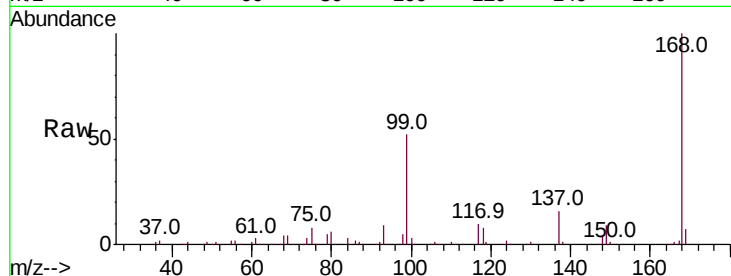
Z1-TB07-190603

Tot Ion:168 Resp: 174920

Ion Ratio Lower Upper

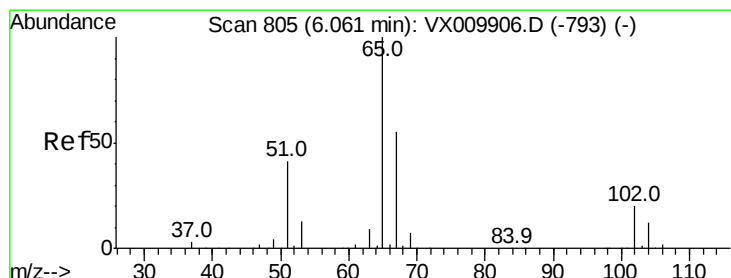
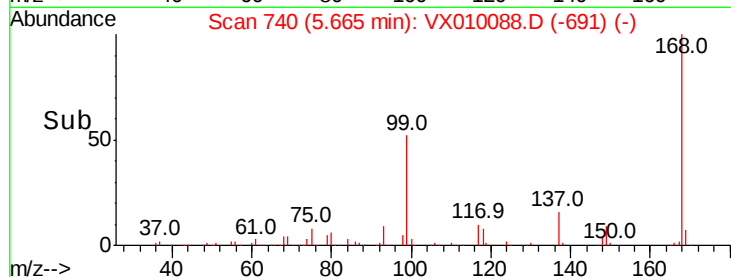
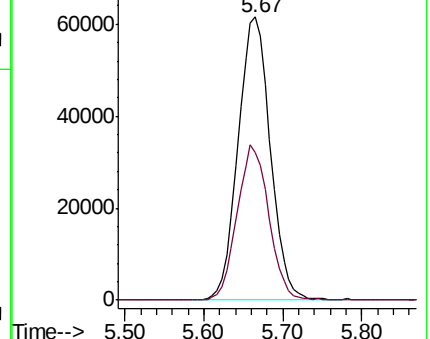
168 100

99 52.0 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.492 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010088.D

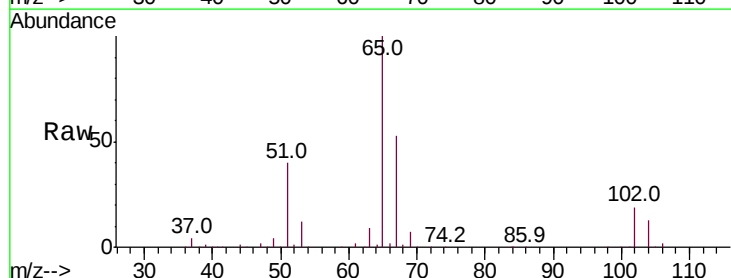
Acq: 05 Jun 2019 19:35

Tgt Ion: 65 Resp: 114878

Ion Ratio Lower Upper

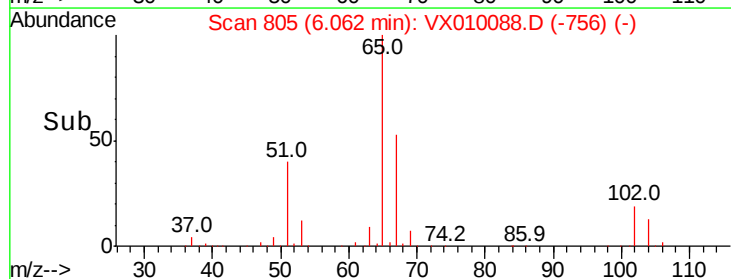
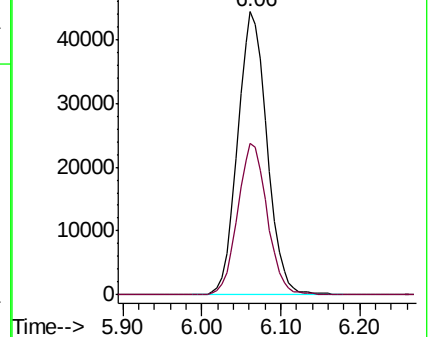
65 100

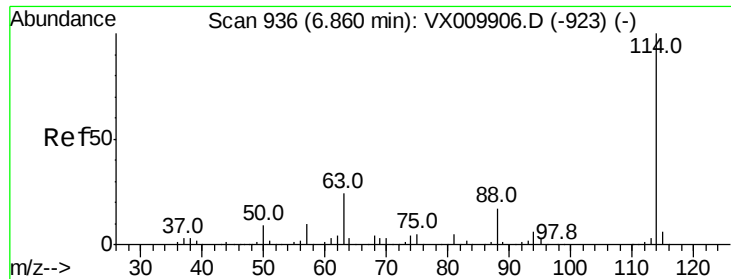
67 53.7 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

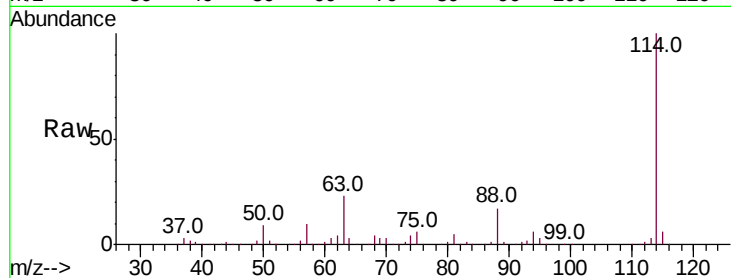




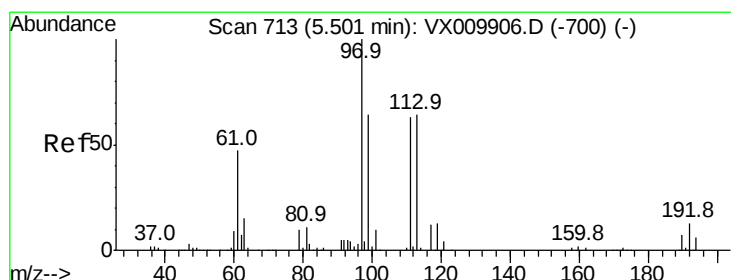
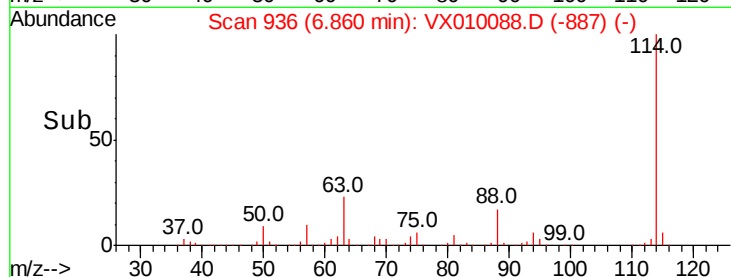
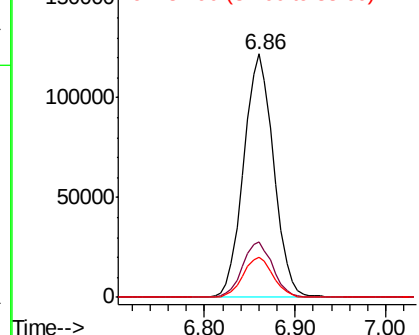
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX010088.D  
 Acq: 05 Jun 2019 19:35

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z1-TB07-190603

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.6  | 0.0   | 47.4  |
| 88      | 16.6  | 0.0   | 33.0  |

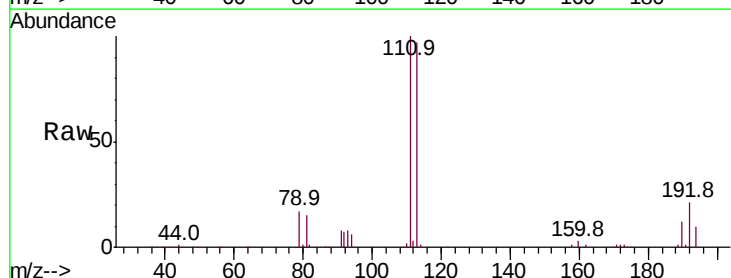


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

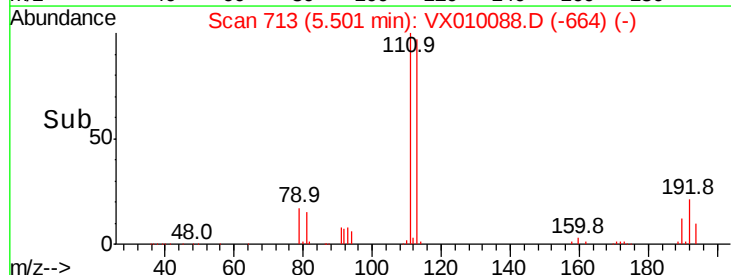
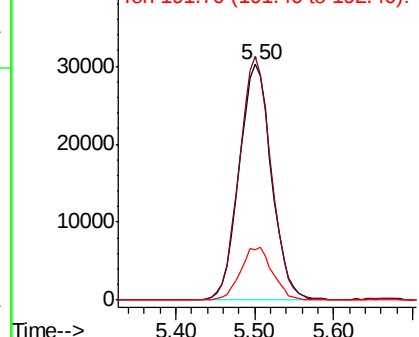


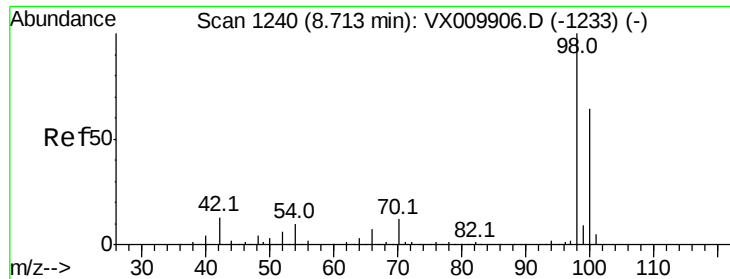
#35  
 Dibromofluoromethane  
 Concen: 49.394 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX010088.D  
 Acq: 05 Jun 2019 19:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.0 | 82.2  | 123.2 |
| 192     | 22.2  | 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

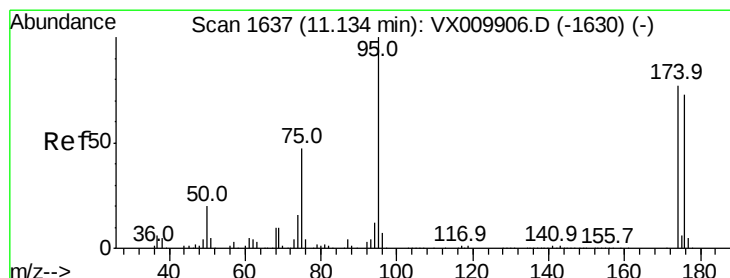
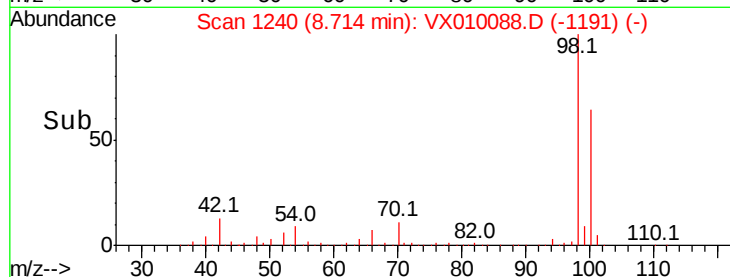
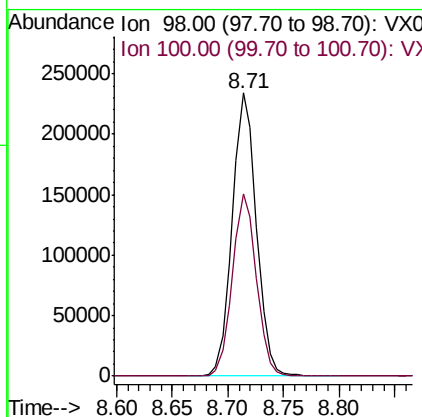
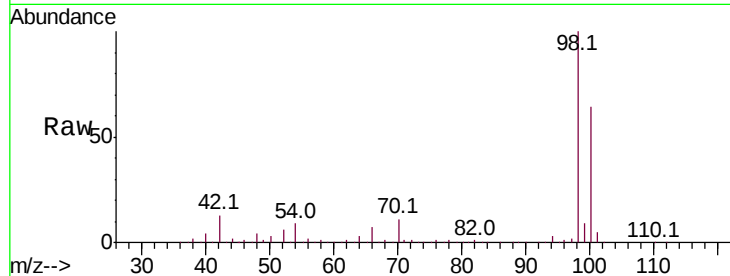




#50  
Toluene-d8  
Concen: 49.324 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX010088.D  
Acq: 05 Jun 2019 19:35

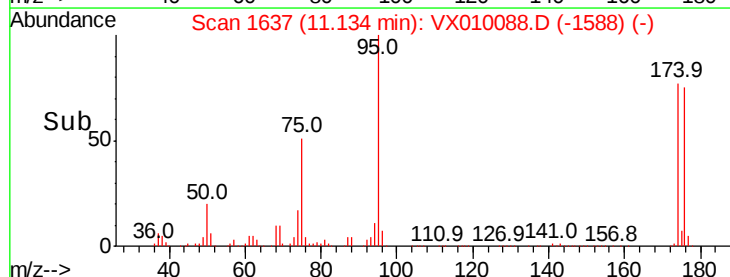
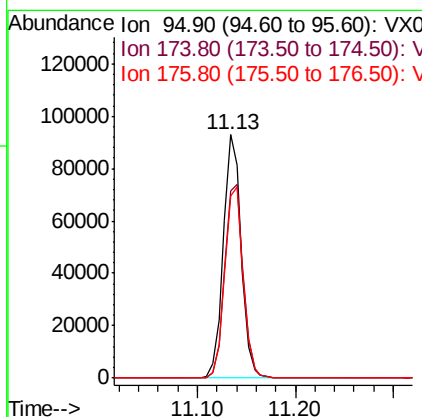
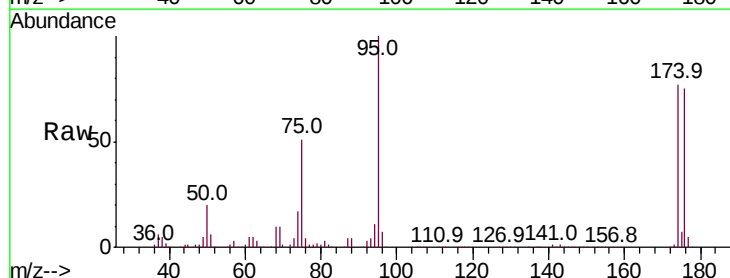
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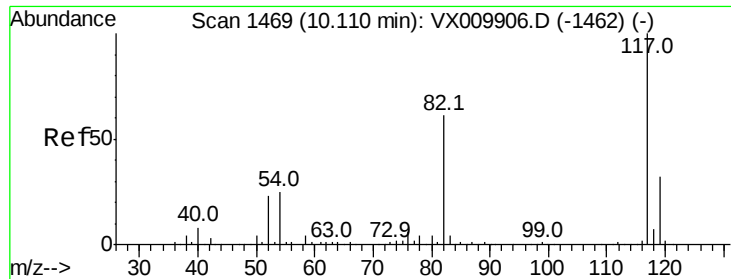
Tot Ion: 98 Resp: 351197  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.5 77.3



#62  
4-Bromofluorobenzene  
Concen: 45.958 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX010088.D  
Acq: 05 Jun 2019 19:35

Tgt Ion: 95 Resp: 117537  
Ion Ratio Lower Upper  
95 100  
174 82.6 0.0 160.4  
176 81.0 0.0 154.6

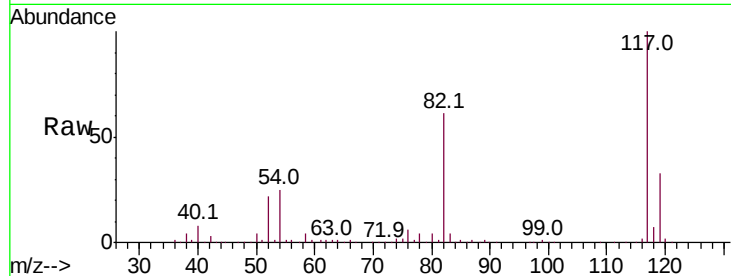




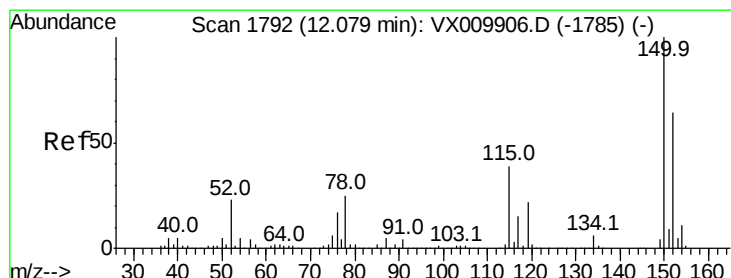
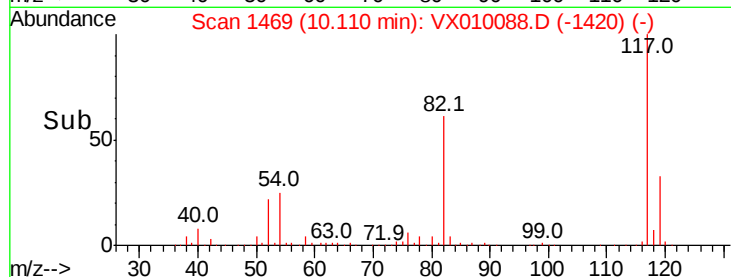
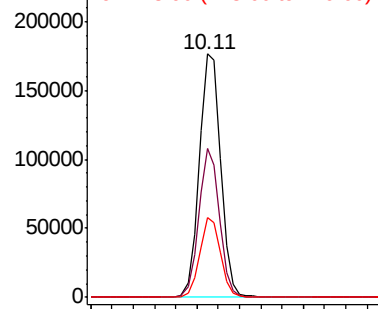
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX010088.D  
Acq: 05 Jun 2019 19:35

Instrument :  
MSVOA\_X  
ClientSampleId :  
Z1-TB07-190603

Tot Ion:117 Resp: 249618  
Ion Ratio Lower Upper  
117 100  
82 61.0 49.2 73.8  
119 33.0 25.2 37.8

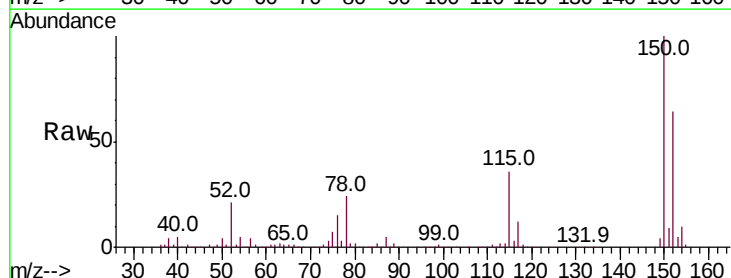


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX010088.D  
Acq: 05 Jun 2019 19:35

Tgt Ion:152 Resp: 108119  
Ion Ratio Lower Upper  
152 100  
115 58.0 41.4 124.2  
150 157.2 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

