

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110818\  
 Data File : VX005846.D  
 Acq On : 08 Nov 2018 15:03  
 Operator : JC/MD  
 Sample : J5860-11  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EP2-TB-01-1118

Quant Time: Nov 08 15:29:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X110718W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 07 14:40:53 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 5.66   | 168  | 122045   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.86   | 114  | 175563   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.12  | 117  | 156793   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08  | 152  | 65372    | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65   | 75502    | 53.81 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 107.62% |          |
| 35) Dibromofluoromethane    | 5.50   | 113  | 60319    | 50.51 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 101.02% |          |
| 50) Toluene-d8              | 8.71   | 98   | 182957   | 46.09 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 92.18%  |          |
| 62) 4-Bromofluorobenzene    | 11.14  | 95   | 60817    | 42.61 | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 85.22%  |          |

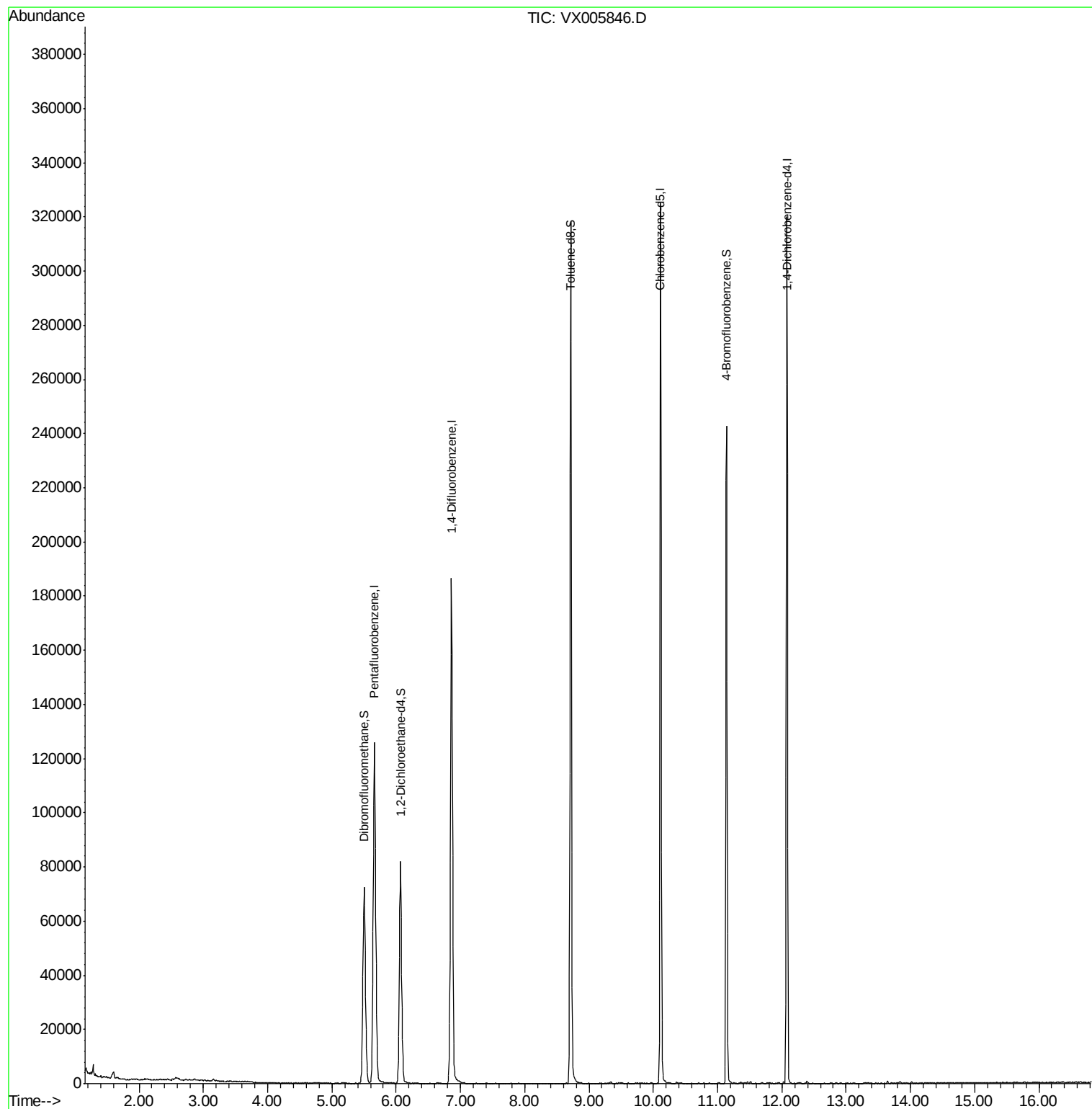
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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Quant Title : SW846 8260  
QLast Update : Wed Nov 07 14:40:53 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX005846.D

Acq: 08 Nov 2018 15:03

Instrument :

MSVOA\_X

ClientSampleId :

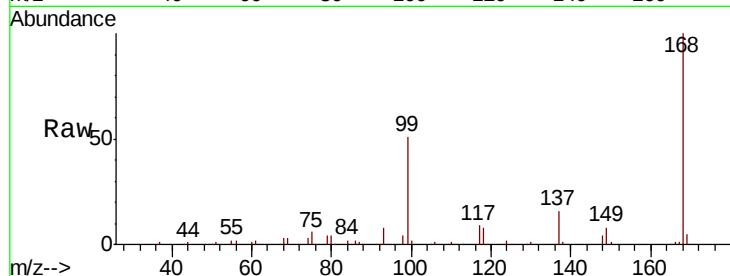
EP2-TB-01-1118

Tot Ion:168 Resp: 122045

Ion Ratio Lower Upper

168 100

99 51.5 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

40000

30000

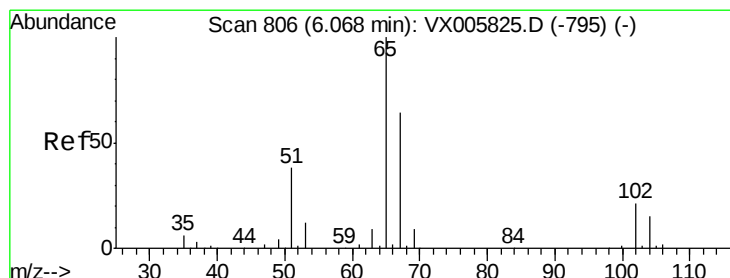
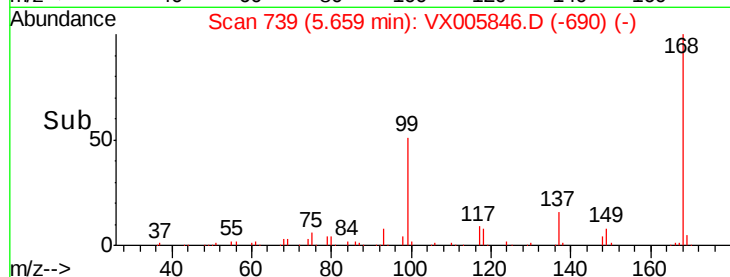
20000

10000

0

5.50 5.60 5.70 5.80 5.90

Time-->



#33

1,2-Dichloroethane-d4

Concen: 53.812 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005846.D

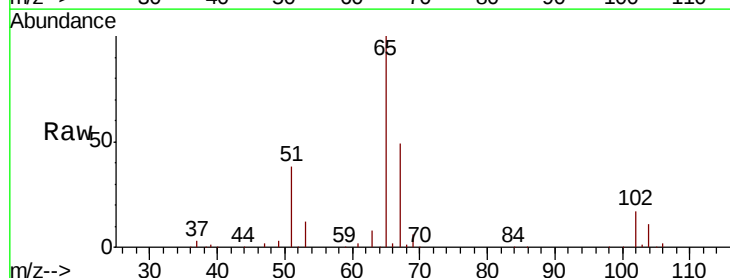
Acq: 08 Nov 2018 15:03

Tgt Ion: 65 Resp: 75502

Ion Ratio Lower Upper

65 100

67 51.5 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

30000

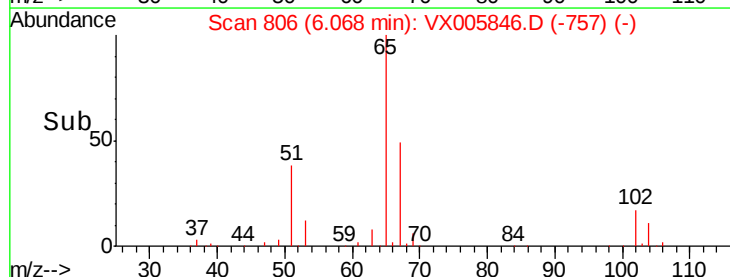
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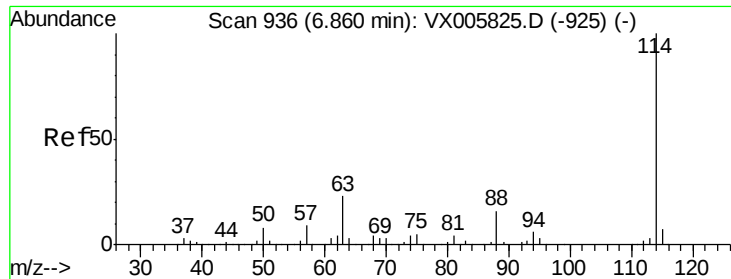
10000

0

5.90 6.00 6.10 6.20

Time-->

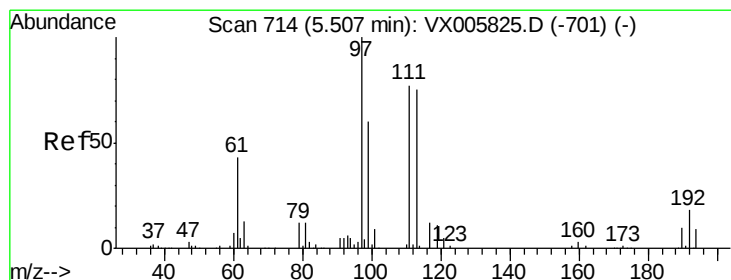
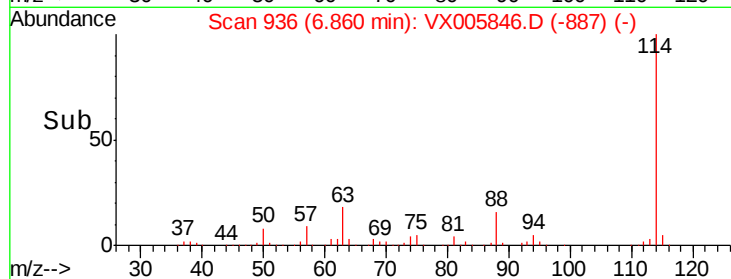
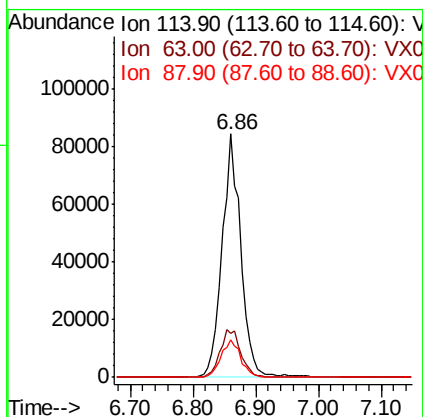
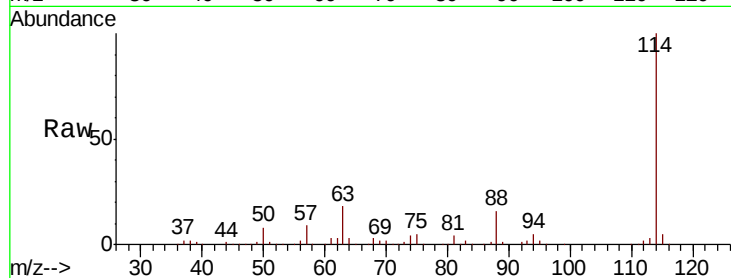




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX005846.D  
 Acq: 08 Nov 2018 15:03

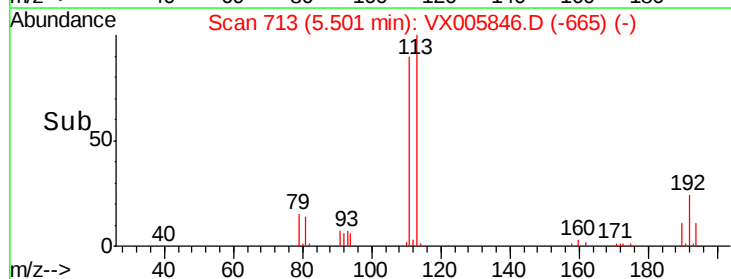
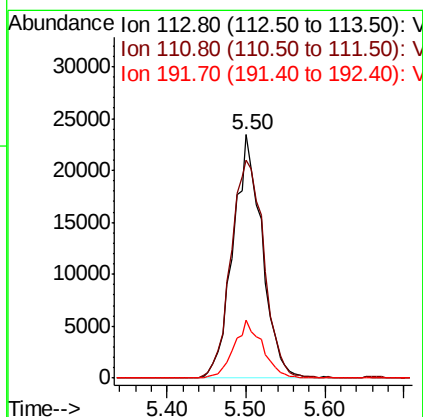
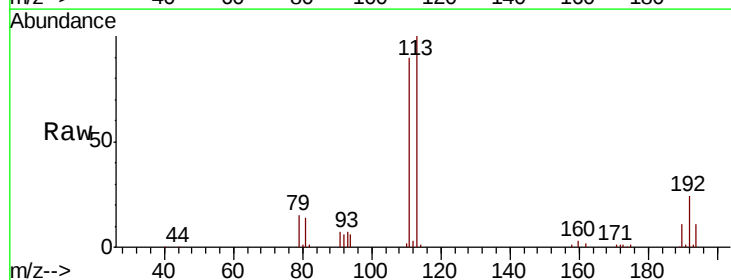
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EP2-TB-01-1118

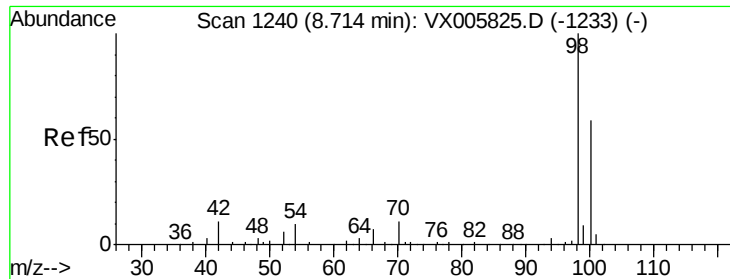
Tot Ion:114 Resp: 175563  
 Ion Ratio Lower Upper  
 114 100  
 63 18.2 0.0 42.8  
 88 15.5 0.0 31.2



#35  
 Dibromofluoromethane  
 Concen: 50.514 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.01 min  
 Lab File: VX005846.D  
 Acq: 08 Nov 2018 15:03

Tgt Ion:113 Resp: 60319  
 Ion Ratio Lower Upper  
 113 100  
 111 101.6 82.3 123.5  
 192 23.2 17.9 26.9





#50

Toluene-d8

Concen: 46.087 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005846.D

Acq: 08 Nov 2018 15:03

Instrument :

MSVOA\_X

ClientSampleId :

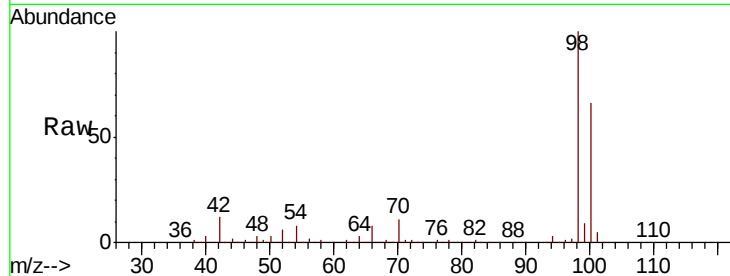
EP2-TB-01-1118

Tot Ion: 98 Resp: 182957

Ion Ratio Lower Upper

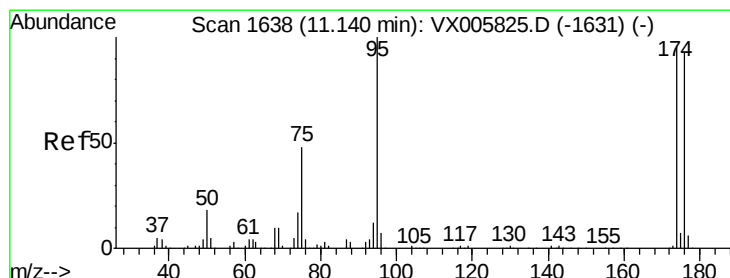
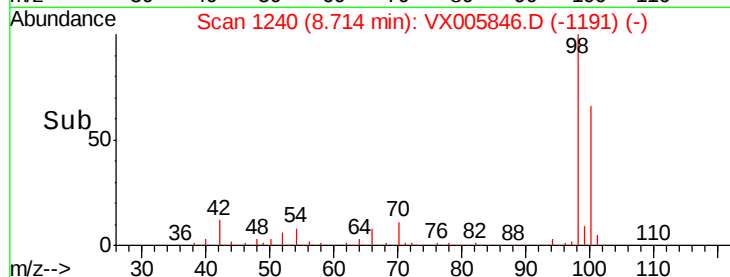
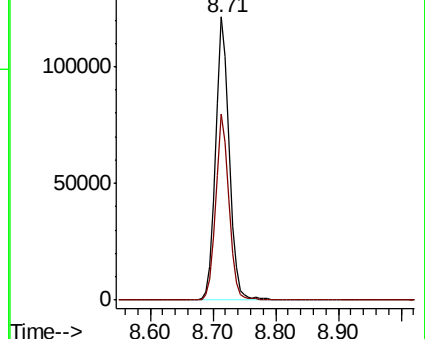
98 100

100 63.7 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V>



#62

4-Bromofluorobenzene

Concen: 42.610 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005846.D

Acq: 08 Nov 2018 15:03

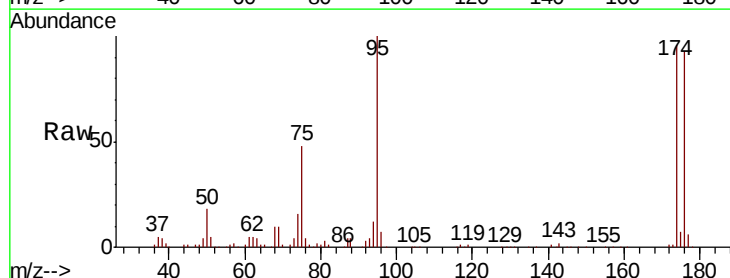
Tgt Ion: 95 Resp: 60817

Ion Ratio Lower Upper

95 100

174 91.3 0.0 184.4

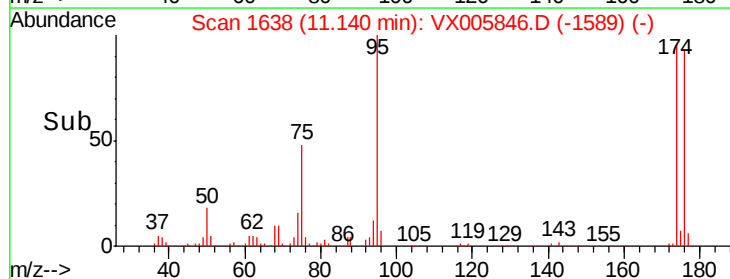
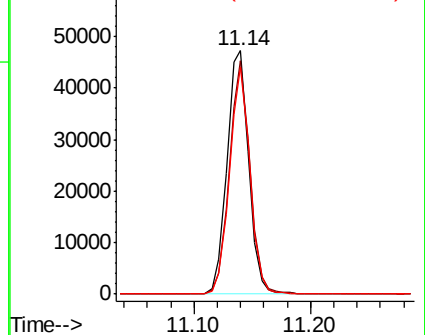
176 87.9 0.0 177.4

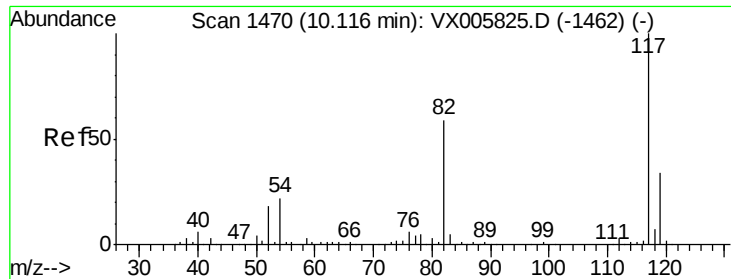


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

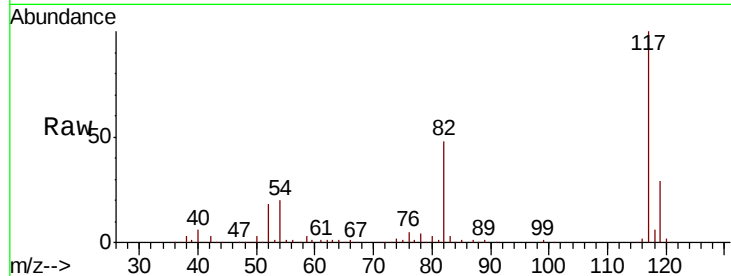




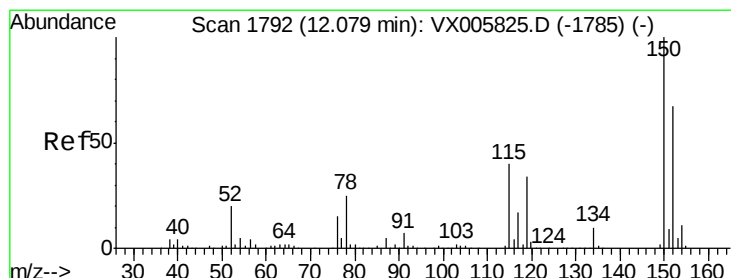
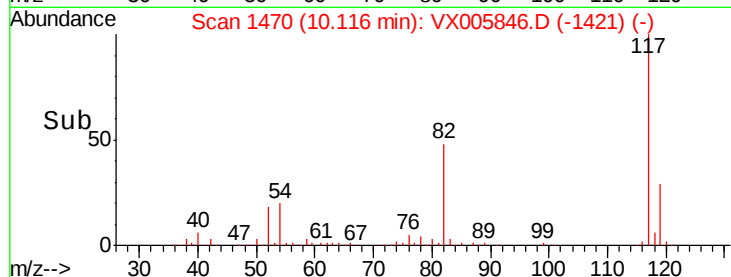
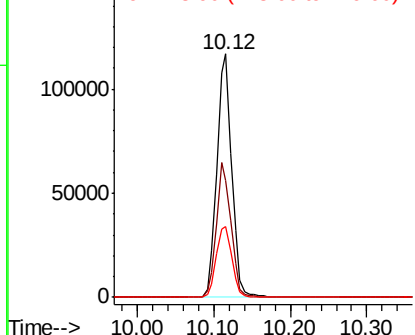
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VX005846.D  
Acq: 08 Nov 2018 15:03

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP2-TB-01-1118

Tot Ion:117 Resp: 156793  
Ion Ratio Lower Upper  
117 100  
82 47.8 44.1 66.1  
119 28.9 26.2 39.2

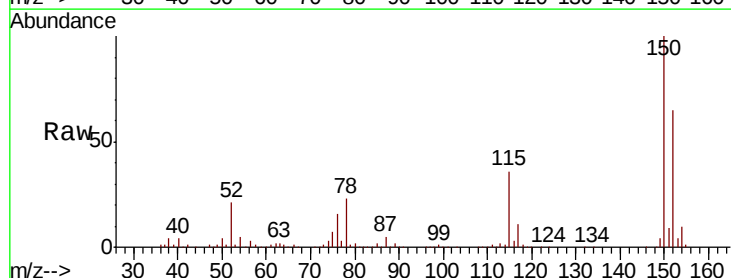


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX005846.D  
Acq: 08 Nov 2018 15:03

Tgt Ion:152 Resp: 65372  
Ion Ratio Lower Upper  
152 100  
115 56.2 39.4 118.1  
150 157.7 0.0 346.4



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

