

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\  
 Data File : VX012839.D  
 Acq On : 07 Oct 2019 15:36  
 Operator : JC/SP  
 Sample : K5154-09  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-10022019

Quant Time: Oct 08 12:02:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 23 12:27:01 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 186659   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 315453   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 256736   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 96767    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65  | 121764   | 44.80 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.60%  |      |
| 35) Dibromofluoromethane    | 5.49   | 113 | 92961    | 49.48 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.96%  |      |
| 50) Toluene-d8              | 8.71   | 98  | 369337   | 51.05 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.10% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 120539   | 42.37 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 84.74%  |      |

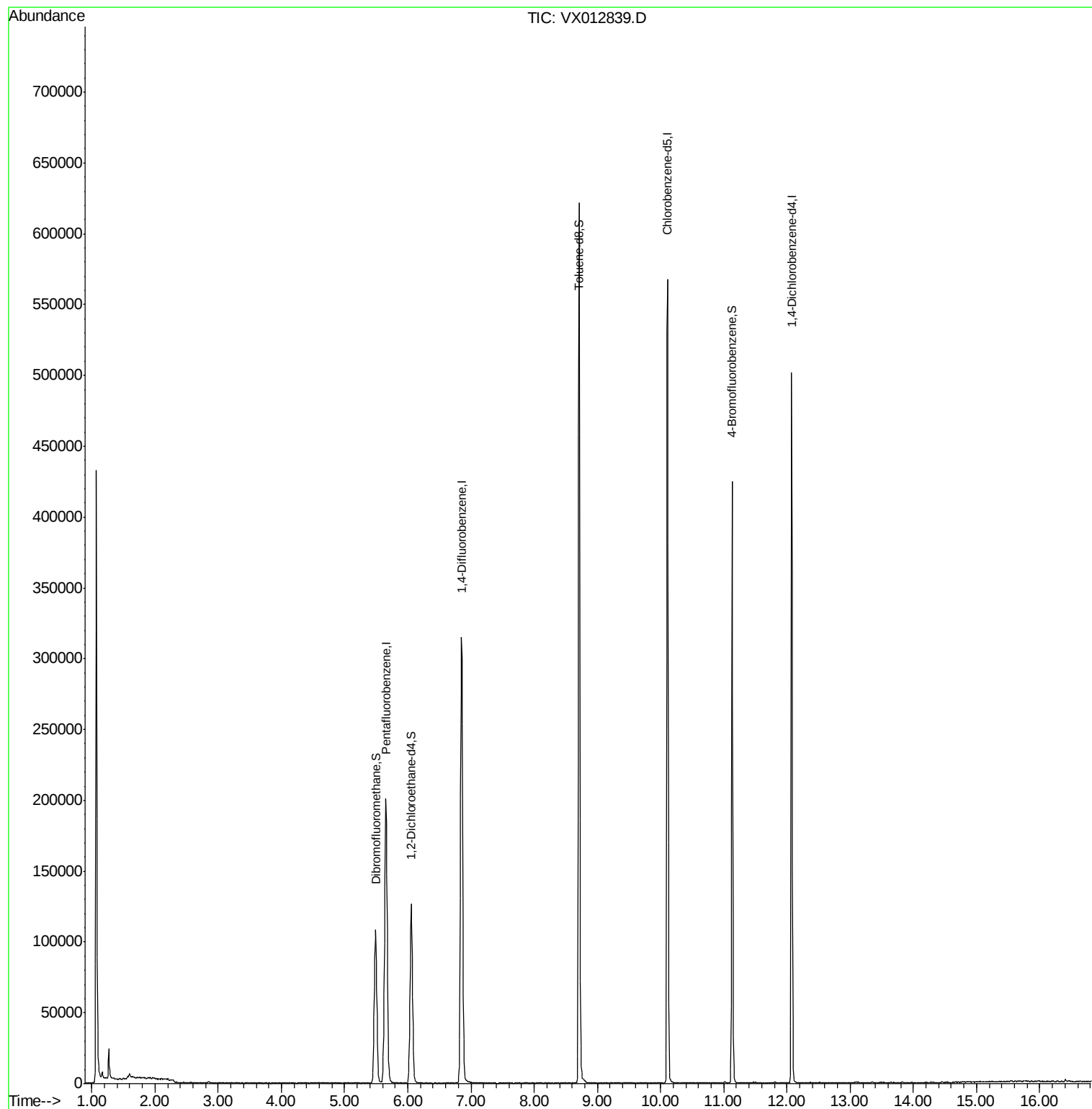
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

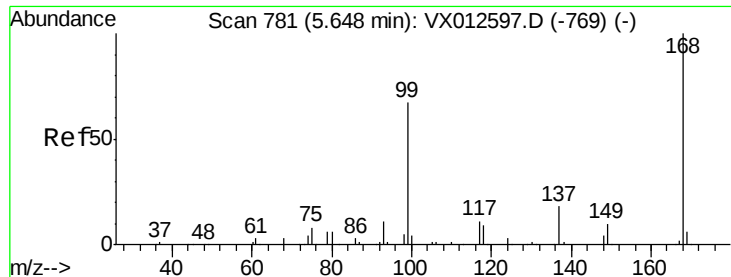
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
ClientSampleId :  
TB-10022019

Quant Time: Oct 08 12:02:37 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092319W.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 23 12:27:01 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

Instrument :

MSVOA\_X

ClientSampleId :

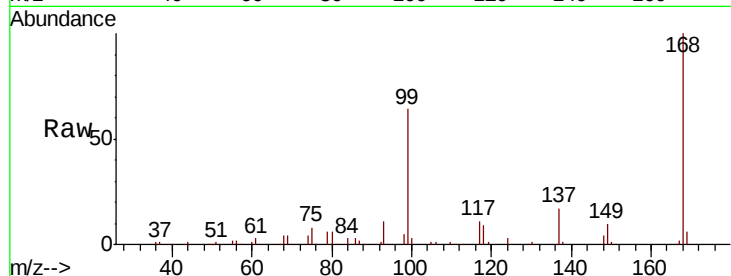
TB-10022019

Tot Ion:168 Resp: 186659

Ion Ratio Lower Upper

168 100

99 63.9 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): VX012597.D (-769) (-)

Ion 98.90 (98.60 to 99.60): VX012597.D (-769) (-)

5.65

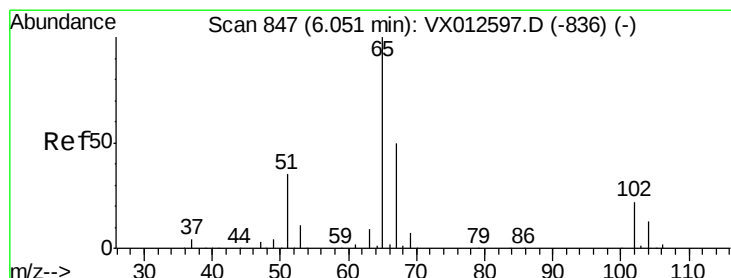
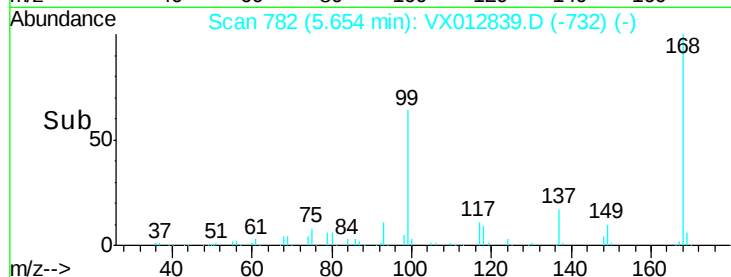
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 44.797 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012839.D

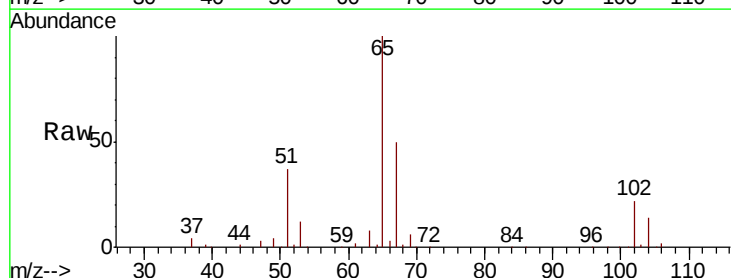
Acq: 07 Oct 2019 15:36

Tgt Ion: 65 Resp: 121764

Ion Ratio Lower Upper

65 100

67 52.0 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX012597.D (-836) (-)

Ion 66.90 (66.60 to 67.60): VX012597.D (-836) (-)

6.05

50000

40000

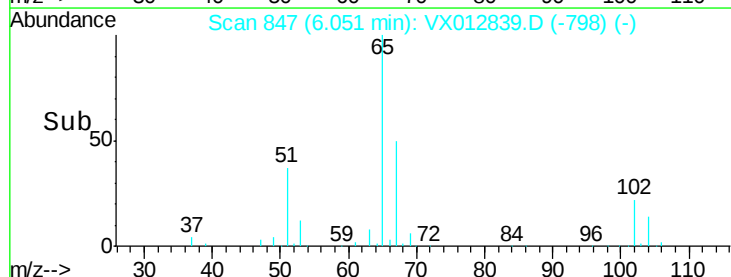
30000

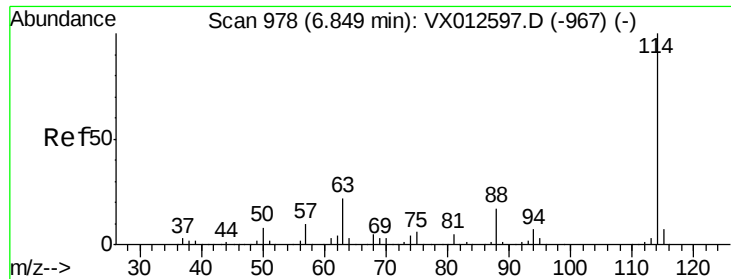
20000

10000

0

Time--> 5.90 6.00 6.10 6.20

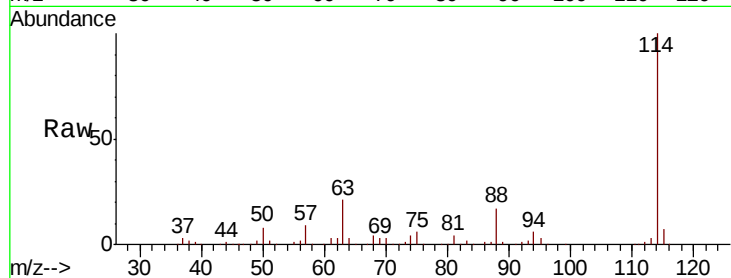




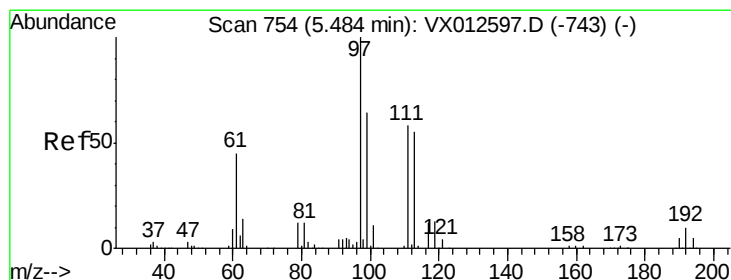
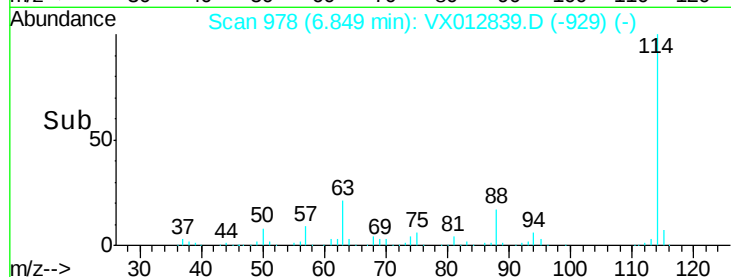
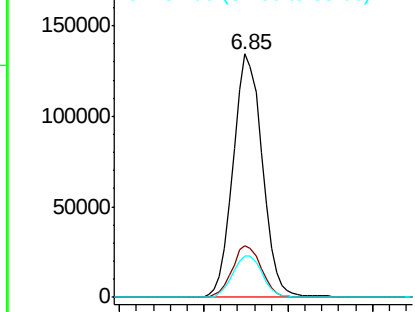
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX012839.D  
 Acq: 07 Oct 2019 15:36

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-10022019

Tot Ion:114 Resp: 315453  
 Ion Ratio Lower Upper  
 114 100  
 63 21.0 0.0 43.2  
 88 17.1 0.0 33.2

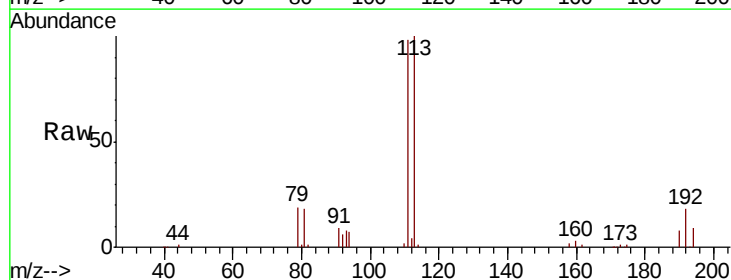


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

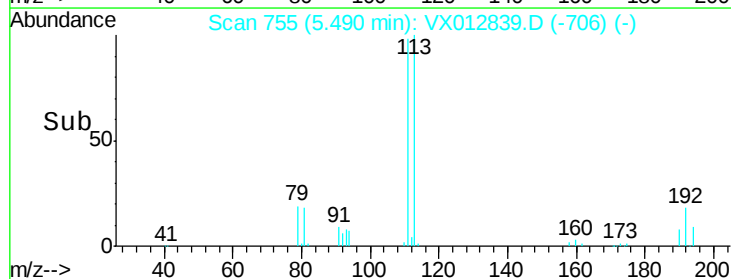
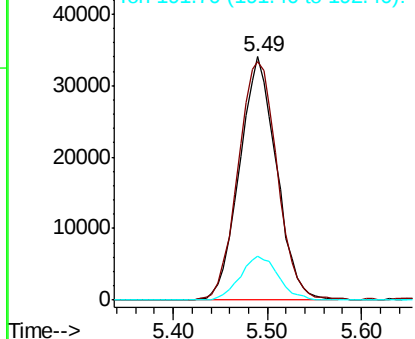


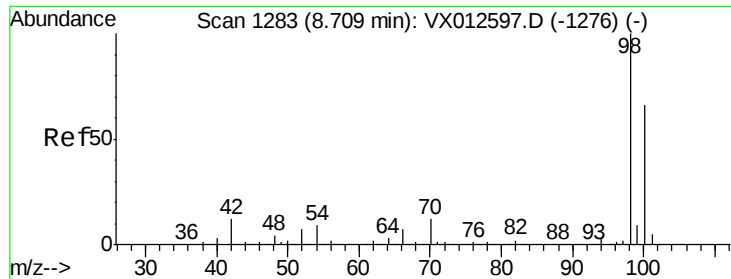
#35  
 Dibromofluoromethane  
 Concen: 49.483 ug/l  
 RT: 5.49 min Scan# 755  
 Delta R.T. -0.00 min  
 Lab File: VX012839.D  
 Acq: 07 Oct 2019 15:36

Tgt Ion:113 Resp: 92961  
 Ion Ratio Lower Upper  
 113 100  
 111 104.0 83.4 125.2  
 192 18.7 14.4 21.6



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: 51.050 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

Instrument :

MSVOA\_X

ClientSampleId :

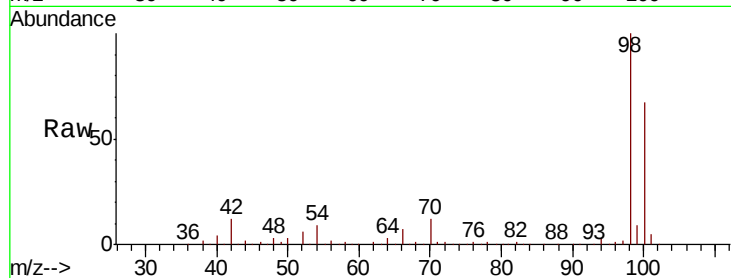
TB-10022019

Tot Ion: 98 Resp: 369337

Ion Ratio Lower Upper

98 100

100 66.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

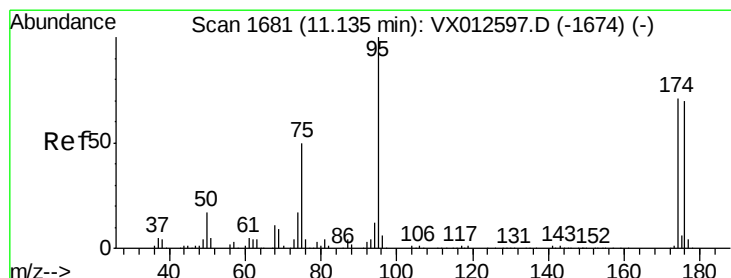
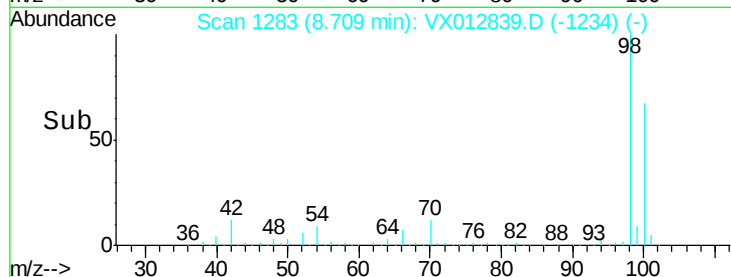
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 42.372 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012839.D

Acq: 07 Oct 2019 15:36

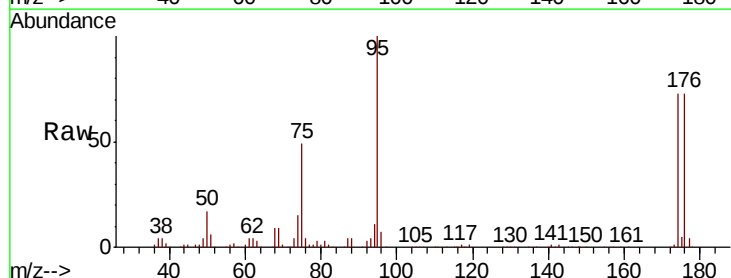
Tgt Ion: 95 Resp: 120539

Ion Ratio Lower Upper

95 100

174 71.6 0.0 140.0

176 69.8 0.0 135.4



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

120000

100000

80000

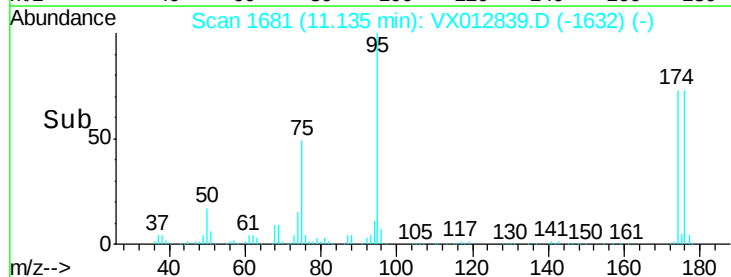
60000

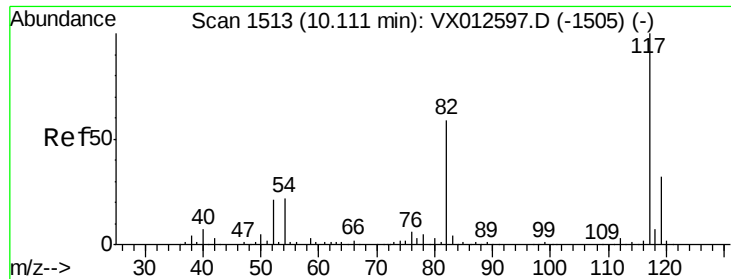
40000

20000

0

Time--> 11.10 11.20

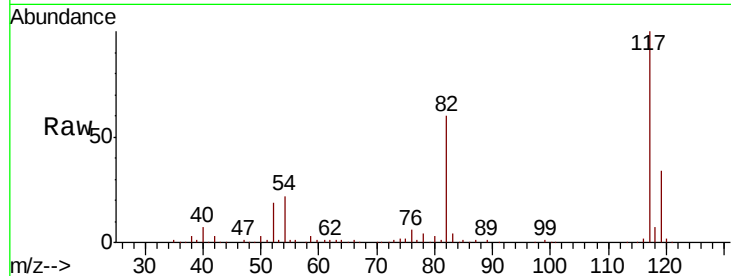




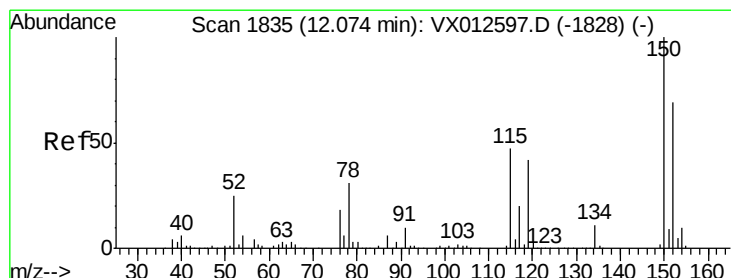
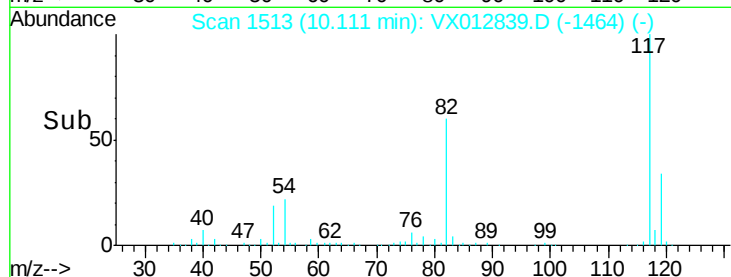
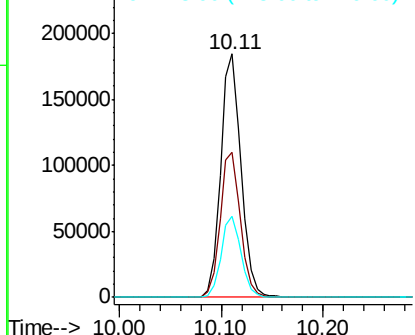
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX012839.D  
Acq: 07 Oct 2019 15:36

Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-10022019

Tot Ion:117 Resp: 256736  
Ion Ratio Lower Upper  
117 100  
82 59.5 45.9 68.9  
119 33.5 25.3 37.9

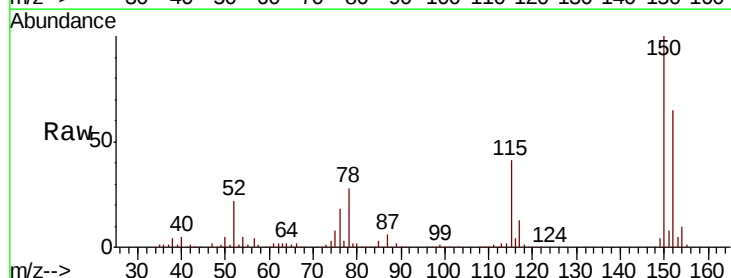


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX012839.D  
Acq: 07 Oct 2019 15:36

Tgt Ion:152 Resp: 96767  
Ion Ratio Lower Upper  
152 100  
115 63.7 44.1 132.3  
150 158.0 0.0 343.8



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

