

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071719\  
 Data File : VX010924.D  
 Acq On : 17 Jul 2019 10:30  
 Operator : JC/SP  
 Sample : VX0717WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0717WBL01

Quant Time: Jul 18 03:15:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 17 06:57:45 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 237741   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 374218   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 342075   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 154641   | 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   | 126068   | 49.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.68%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 117818   | 49.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.20%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 445475   | 50.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.00% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 155612   | 47.52 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.04%  |          |

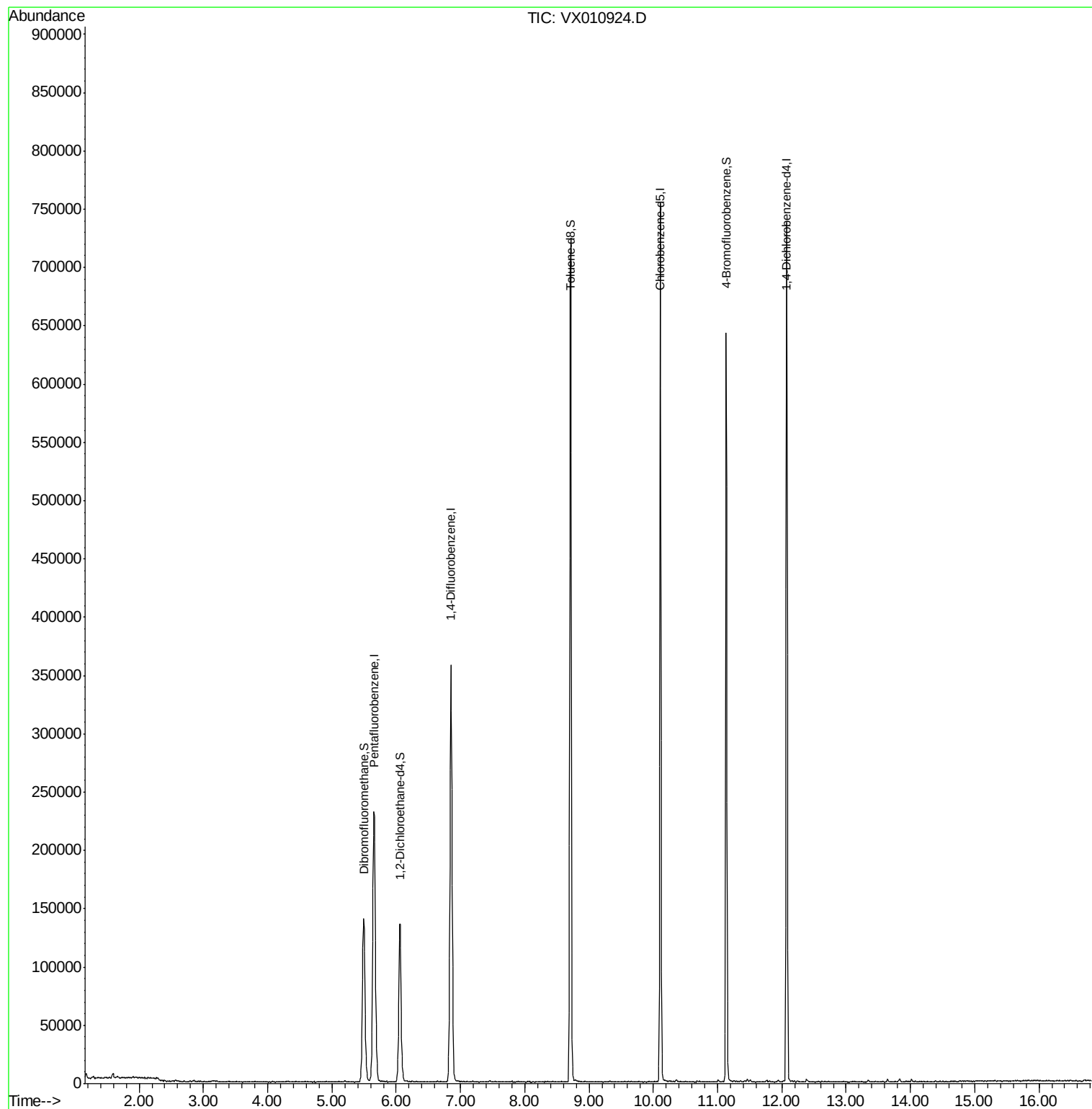
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

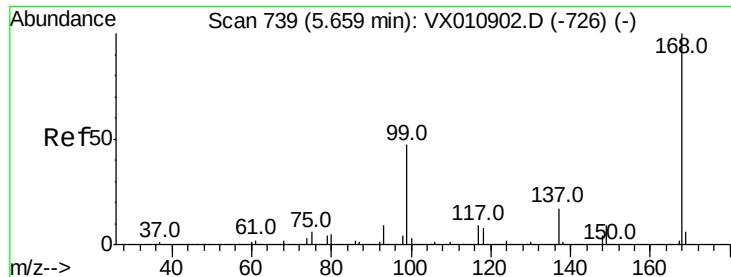
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jul 17 06:57:45 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.01 min

Lab File: VX010924.D

Acq: 17 Jul 2019 10:30

Instrument :

MSVOA\_X

ClientSampleId :

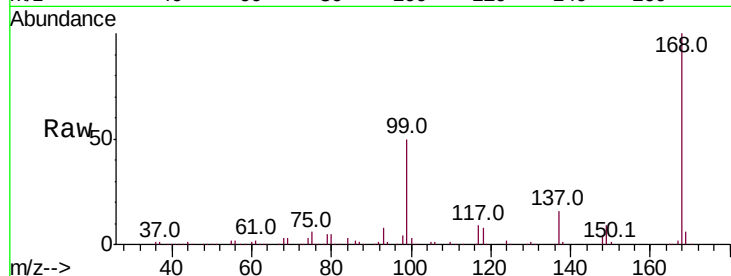
VX0717WBL01

Tot Ion:168 Resp: 237741

Ion Ratio Lower Upper

168 100

99 50.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

80000

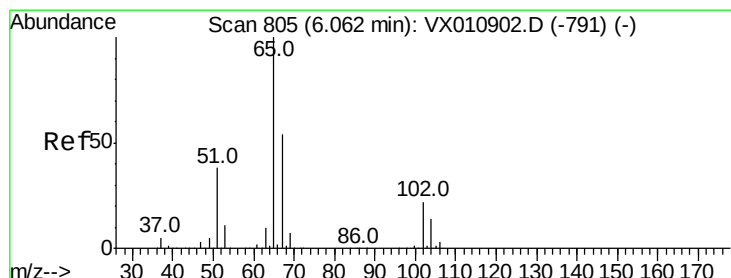
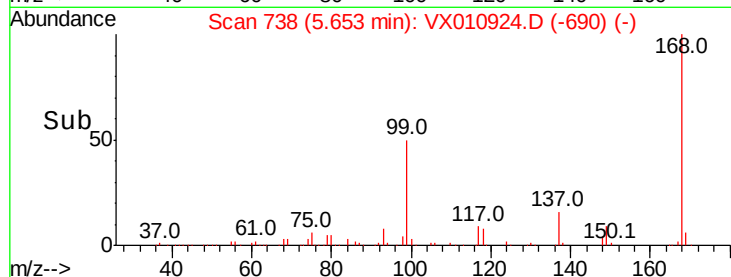
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#33

1,2-Dichloroethane-d4

Concen: 49.845 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX010924.D

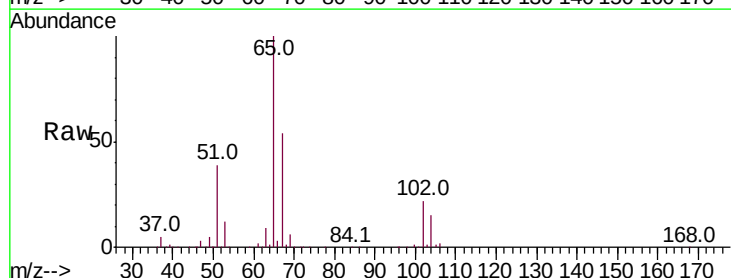
Acq: 17 Jul 2019 10:30

Tgt Ion: 65 Resp: 126068

Ion Ratio Lower Upper

65 100

67 52.9 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

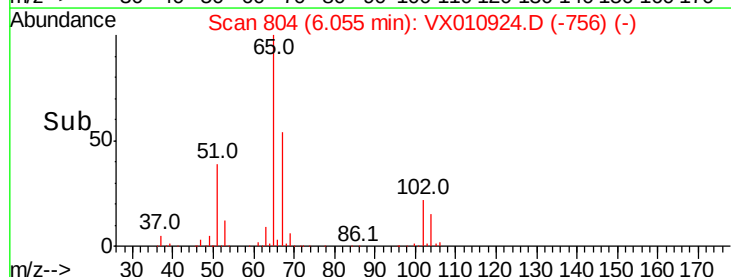
30000

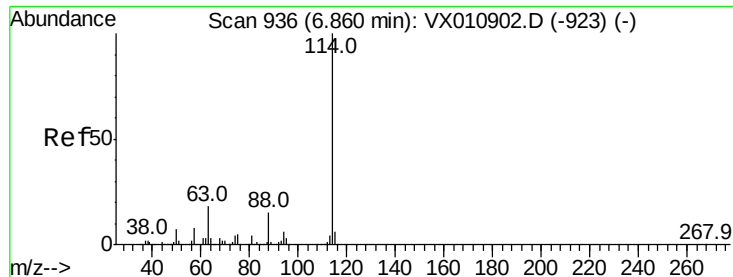
20000

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# 935

Delta R.T. -0.01 min

Lab File: VX010924.D

Acq: 17 Jul 2019 10:30

Instrument :

MSVOA\_X

ClientSampleId :

VX0717WBL01

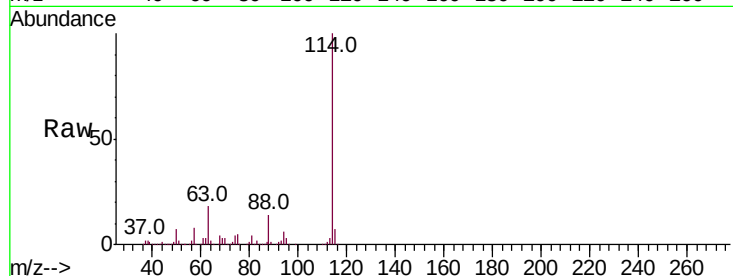
Tot Ion:114 Resp: 374218

Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.6

88 14.2 0.0 29.8



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

200000

150000

100000

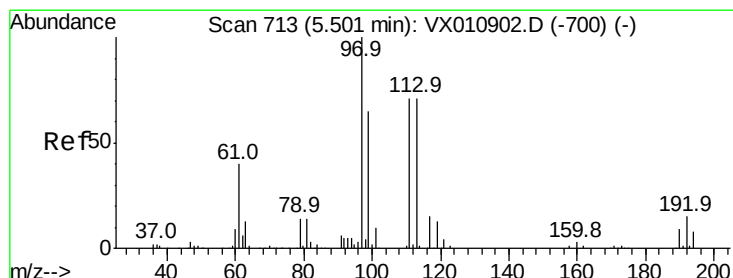
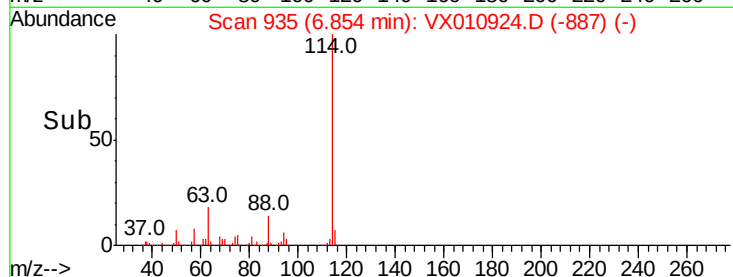
50000

0

6.85

6.80 6.90

Time-->



#35

Dibromofluoromethane

Concen: 49.603 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX010924.D

Acq: 17 Jul 2019 10:30

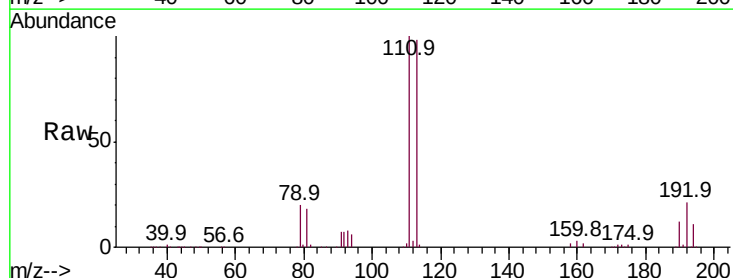
Tgt Ion:113 Resp: 117818

Ion Ratio Lower Upper

113 100

111 102.0 82.3 123.5

192 21.8 17.4 26.2



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

50000

40000

30000

20000

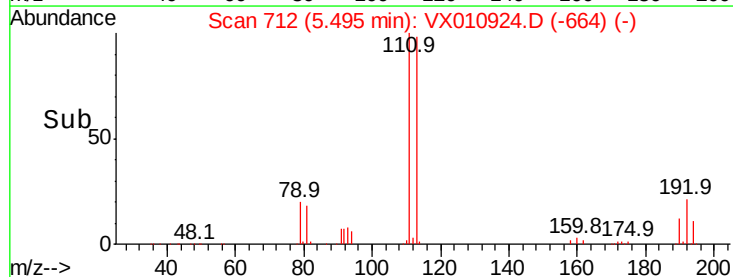
10000

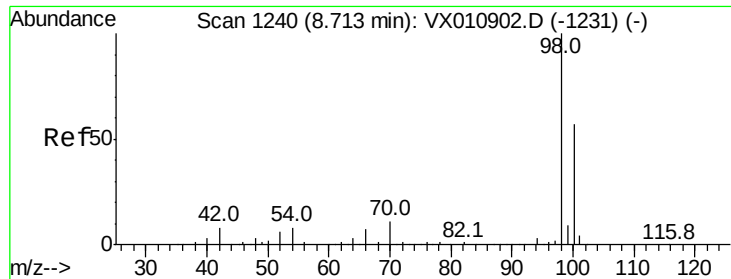
0

5.49

5.40 5.50 5.60

Time-->

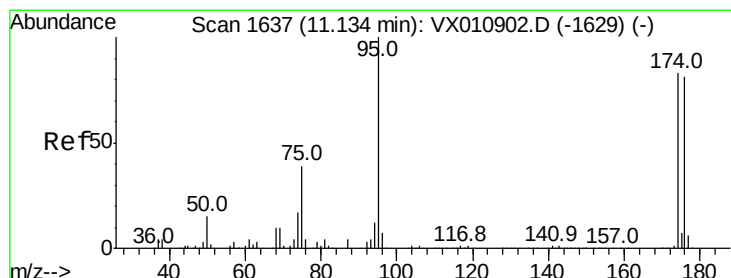
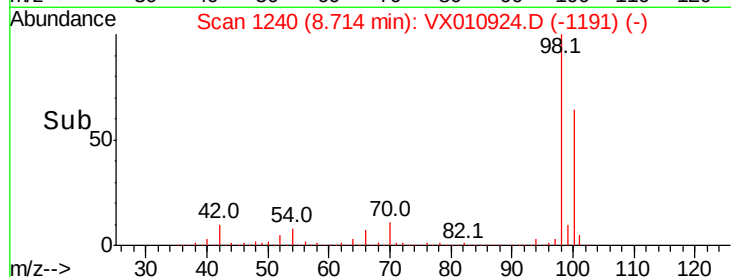
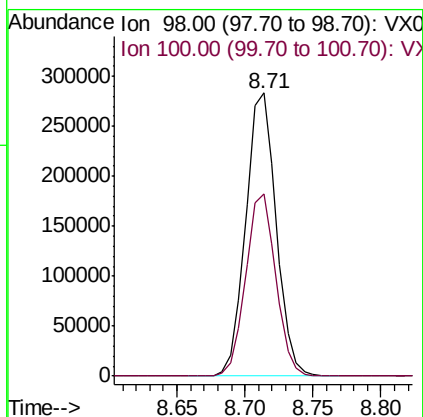
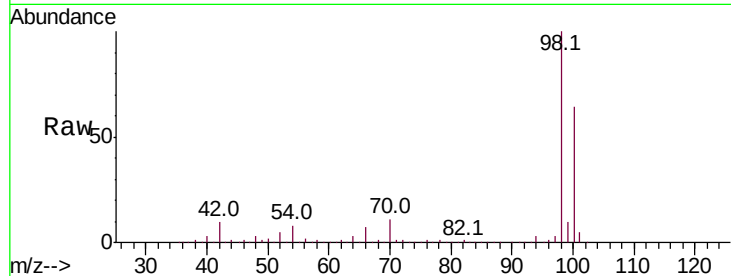




#50  
Toluene-d8  
Concen: 50.005 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX010924.D  
Acq: 17 Jul 2019 10:30

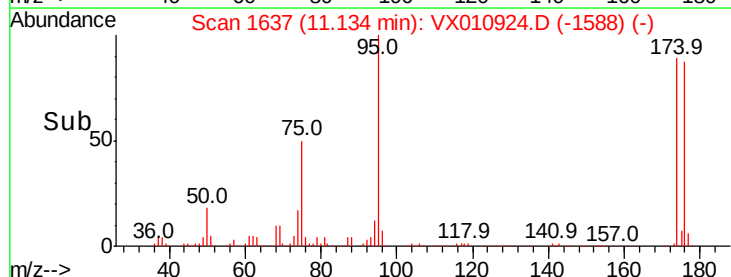
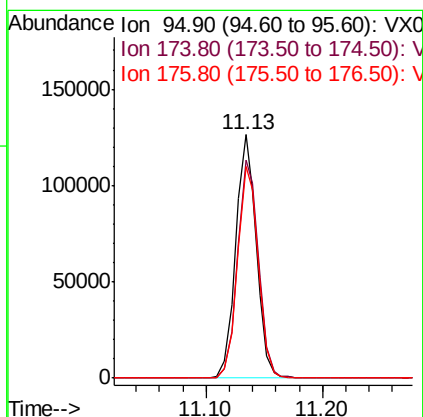
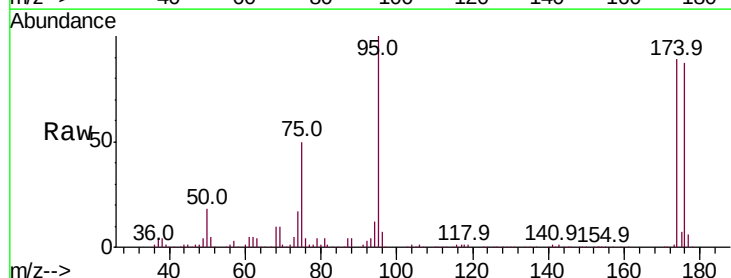
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0717WBL01

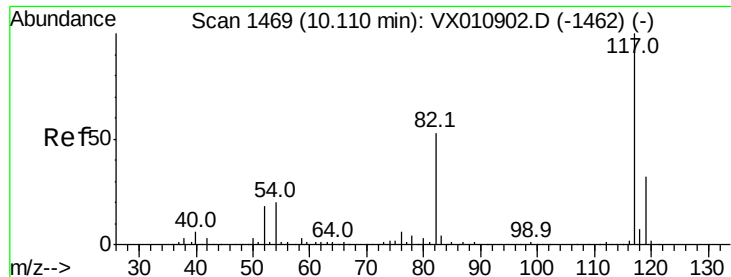
Tot Ion: 98 Resp: 445475  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.6 75.8



#62  
4-Bromofluorobenzene  
Concen: 47.522 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX010924.D  
Acq: 17 Jul 2019 10:30

Tgt Ion: 95 Resp: 155612  
Ion Ratio Lower Upper  
95 100  
174 91.4 0.0 180.6  
176 87.9 0.0 173.8

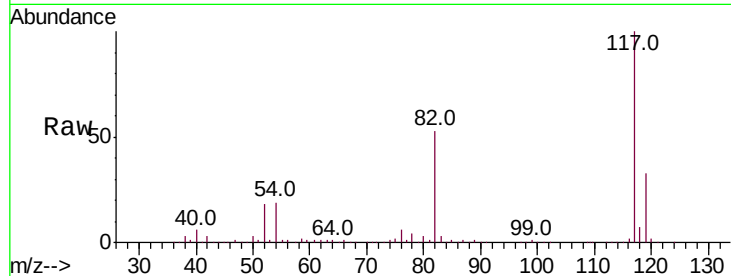




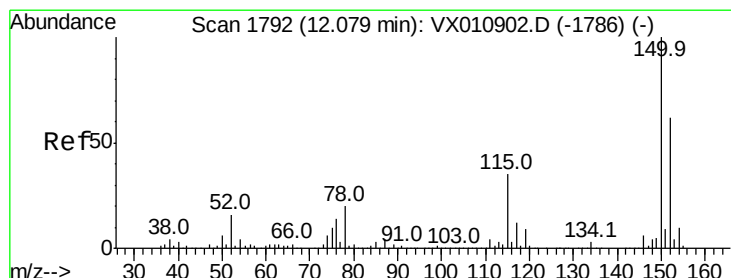
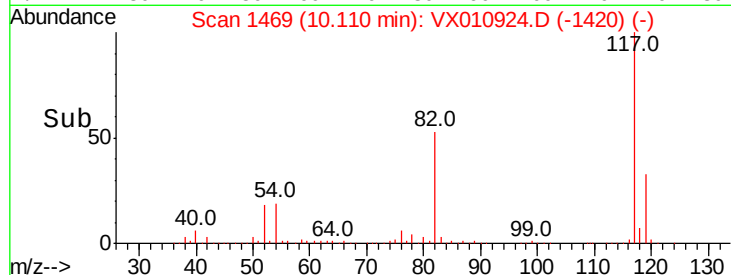
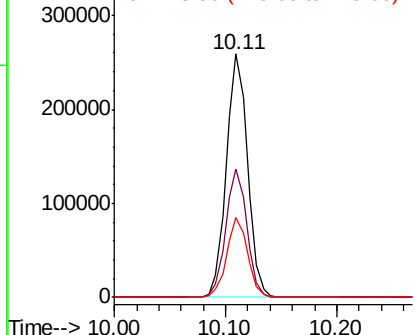
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX010924.D  
Acq: 17 Jul 2019 10:30

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0717WBL01

Tot Ion:117 Resp: 342075  
Ion Ratio Lower Upper  
117 100  
82 52.8 42.6 63.8  
119 32.7 25.9 38.9

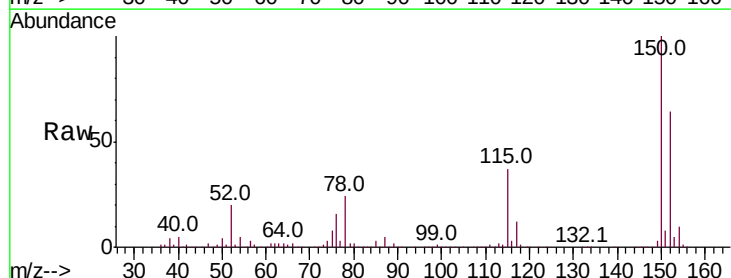


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1791  
Delta R.T. -0.01 min  
Lab File: VX010924.D  
Acq: 17 Jul 2019 10:30

Tgt Ion:152 Resp: 154641  
Ion Ratio Lower Upper  
152 100  
115 56.3 39.7 119.1  
150 159.1 0.0 345.6



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

