

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080219\  
 Data File : VX011299.D  
 Acq On : 02 Aug 2019 13:00  
 Operator : JC/SP  
 Sample : K4119-01 20X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3-0683

Quant Time: Aug 03 06:35:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:55:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 136609   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 217115   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 205158   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 96522    | 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   | 71136    | 51.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 103.42% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 64721    | 45.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 91.32%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 262137   | 48.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 97.98%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 88313    | 46.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 92.46%  |          |

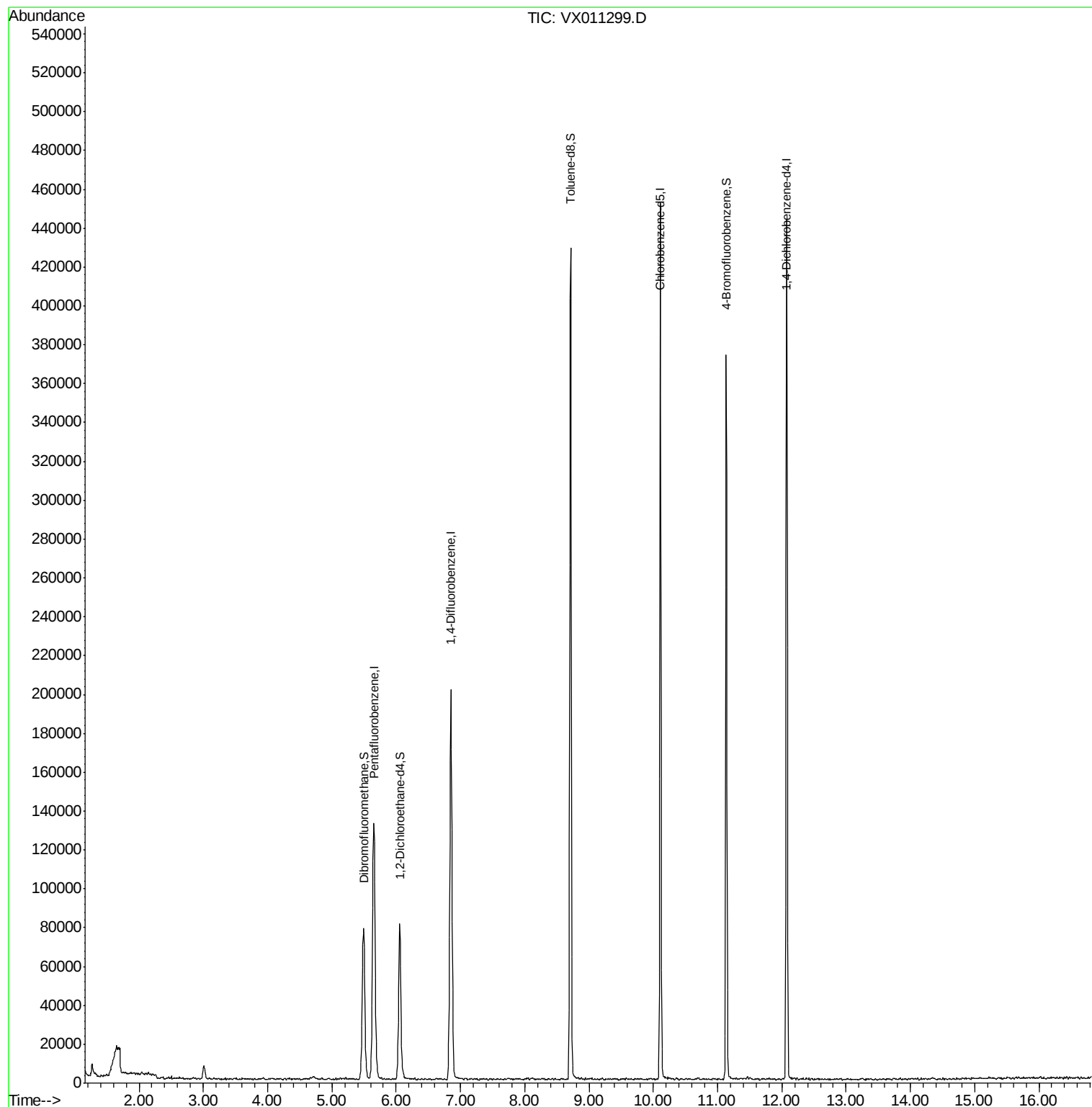
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

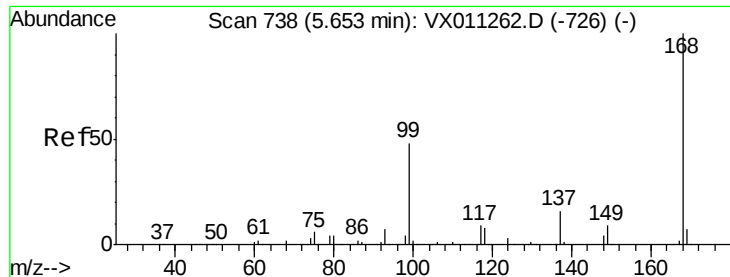
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011299.D

Acq: 02 Aug 2019 13:00

Instrument :

MSVOA\_X

ClientSampleId :

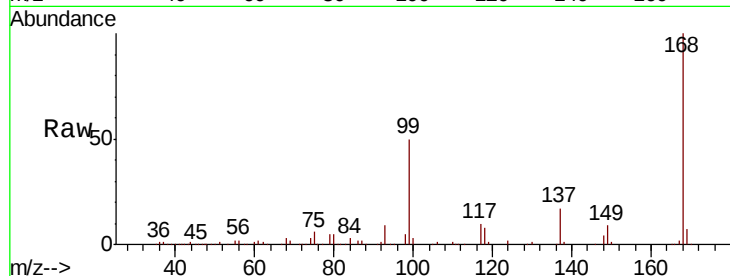
Z3-0683

Tot Ion:168 Resp: 136609

Ion Ratio Lower Upper

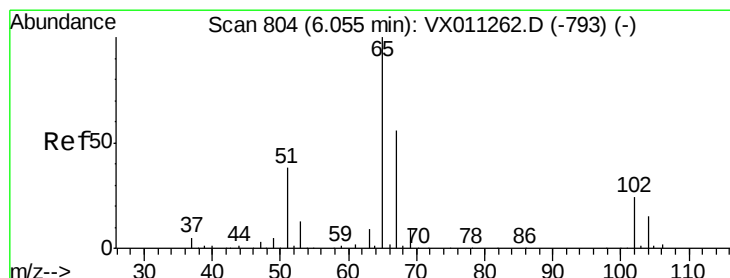
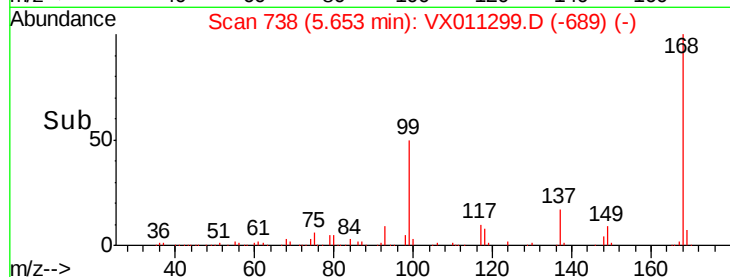
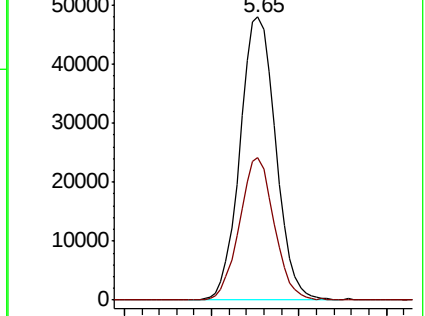
168 100

99 50.5 38.5 57.7



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: 51.708 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011299.D

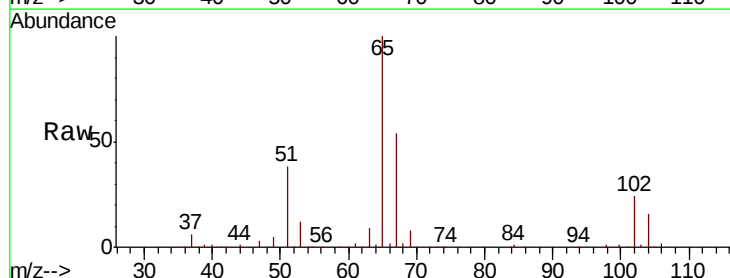
Acq: 02 Aug 2019 13:00

Tgt Ion: 65 Resp: 71136

Ion Ratio Lower Upper

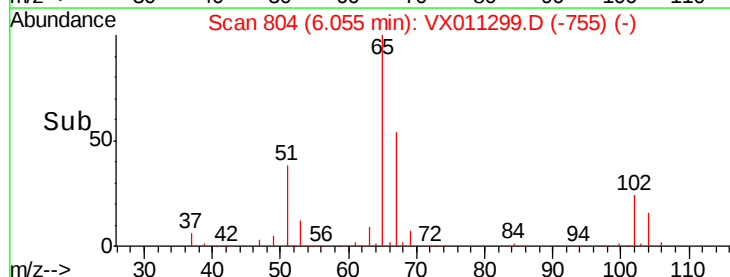
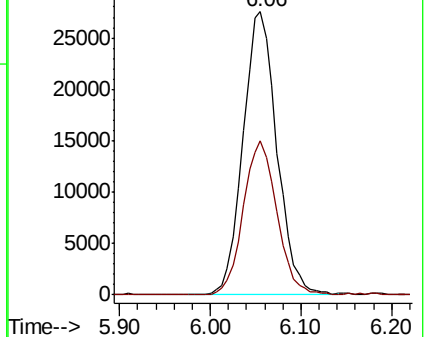
65 100

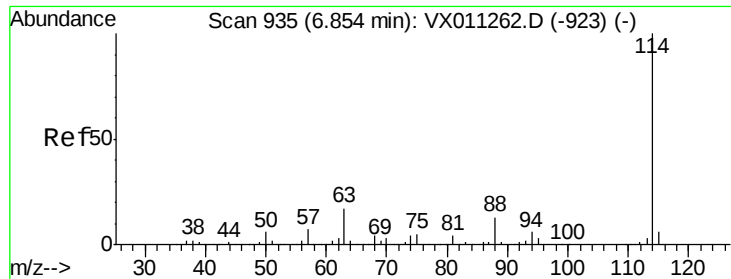
67 54.0 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

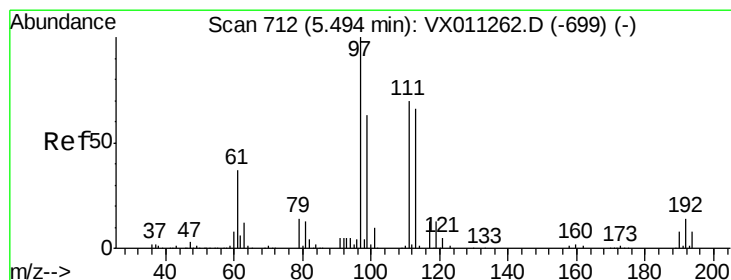
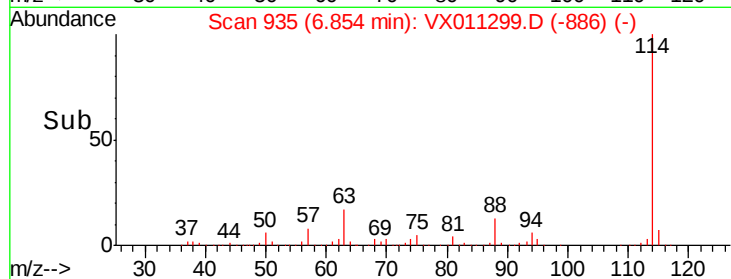
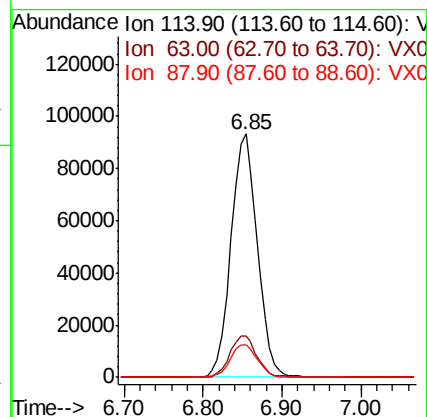
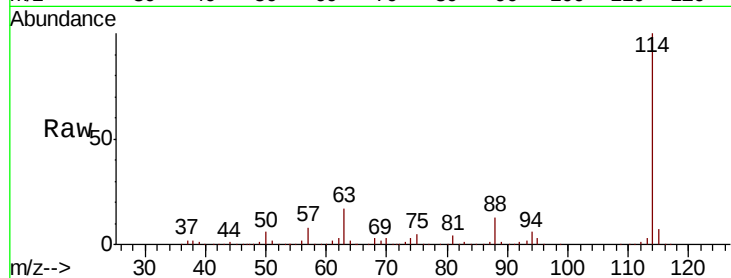




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. 0.00 min  
 Lab File: VX011299.D  
 Acq: 02 Aug 2019 13:00

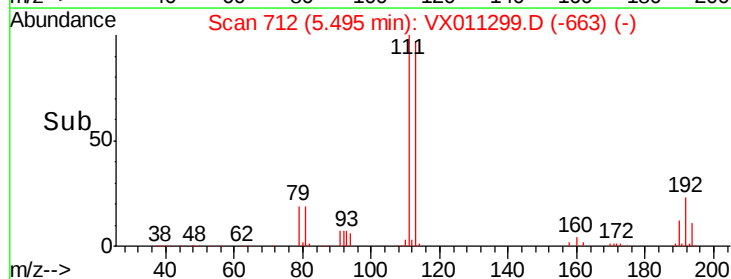
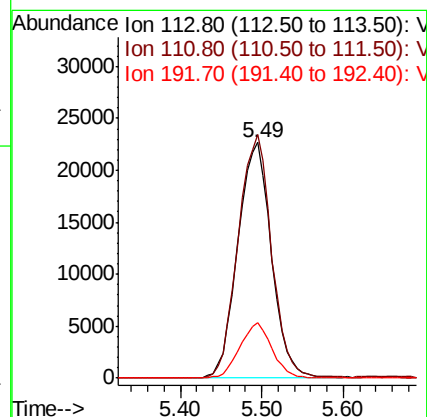
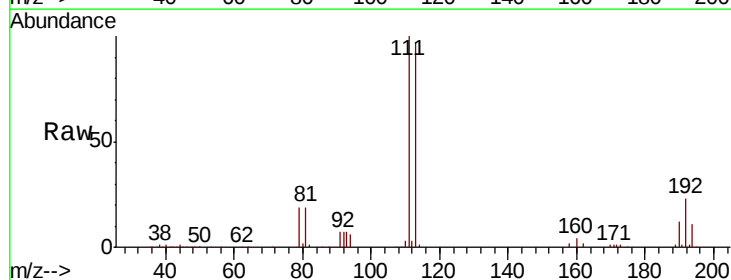
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3-0683

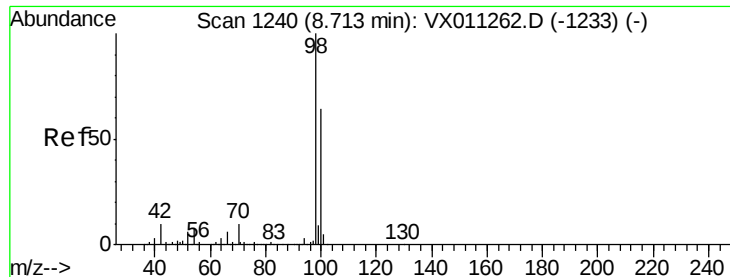
Tot Ion:114 Resp: 217115  
 Ion Ratio Lower Upper  
 114 100  
 63 16.8 0.0 34.0  
 88 13.3 0.0 26.4



#35  
 Dibromofluoromethane  
 Concen: 45.659 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. 0.00 min  
 Lab File: VX011299.D  
 Acq: 02 Aug 2019 13:00

Tgt Ion:113 Resp: 64721  
 Ion Ratio Lower Upper  
 113 100  
 111 103.0 81.9 122.9  
 192 22.3 17.8 26.8





#50

Toluene-d8

Concen: 48.992 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011299.D

Acq: 02 Aug 2019 13:00

Instrument :

MSVOA\_X

ClientSampleId :

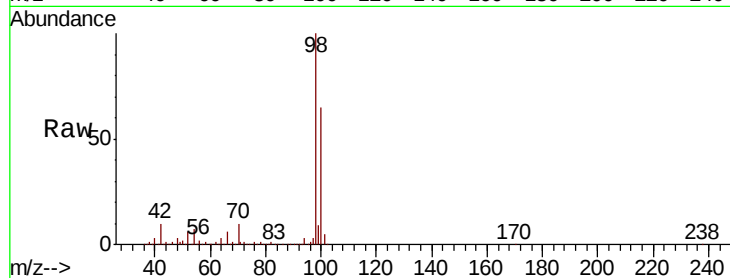
Z3-0683

Tot Ion: 98 Resp: 262137

Ion Ratio Lower Upper

98 100

100 64.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

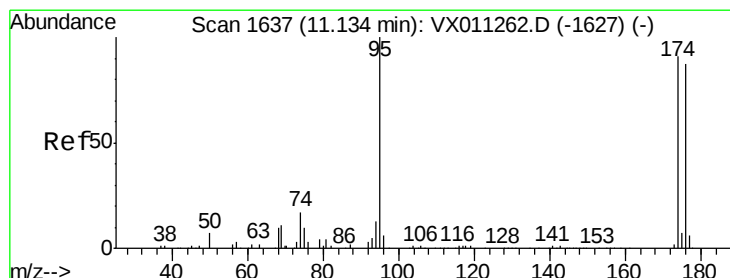
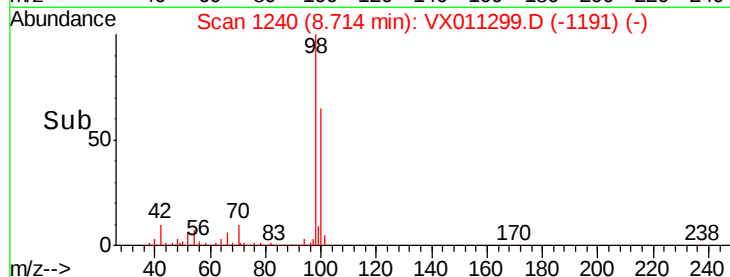
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 46.229 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011299.D

Acq: 02 Aug 2019 13:00

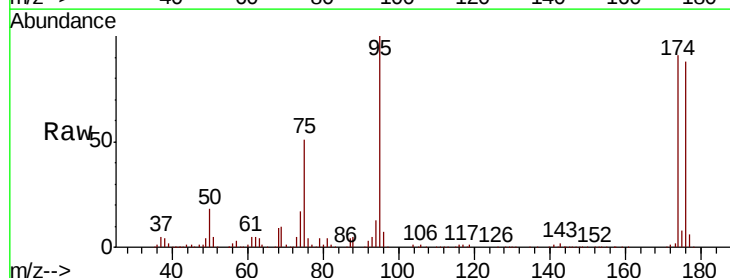
Tgt Ion: 95 Resp: 88313

Ion Ratio Lower Upper

95 100

174 96.4 0.0 191.2

176 94.2 0.0 184.8



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

11.13

100000

80000

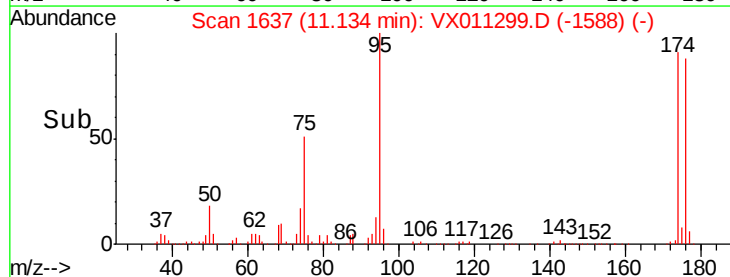
60000

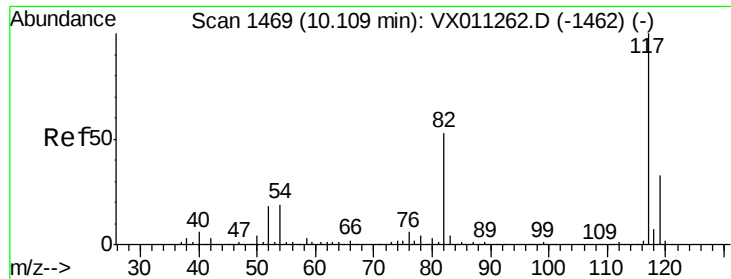
40000

20000

0

Time--> 11.05 11.10 11.15 11.20

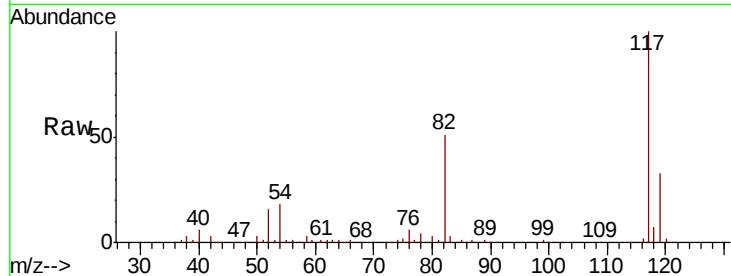




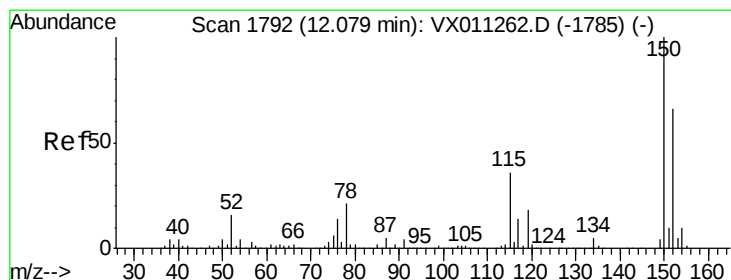
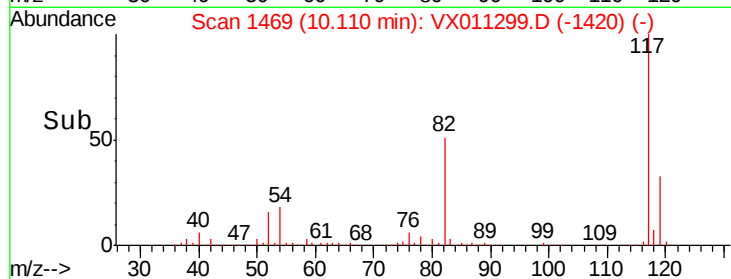
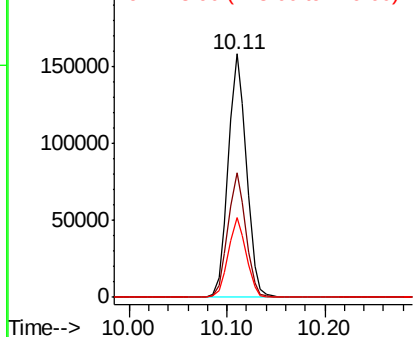
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX011299.D  
Acq: 02 Aug 2019 13:00

Instrument :  
MSVOA\_X  
ClientSampled :  
Z3-0683

Tot Ion:117 Resp: 205158  
Ion Ratio Lower Upper  
117 100  
82 51.0 42.2 63.2  
119 32.5 26.6 39.8

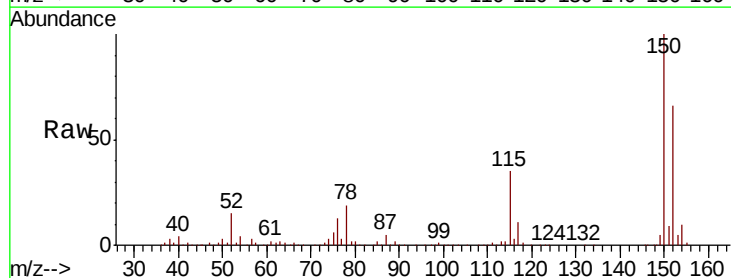


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX011262.D (-1462) (-)  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX011299.D  
Acq: 02 Aug 2019 13:00

Tgt Ion:152 Resp: 96522  
Ion Ratio Lower Upper  
152 100  
115 55.1 40.0 119.9  
150 158.0 0.0 350.4



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

