

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090719\  
 Data File : VX012201.D  
 Acq On : 08 Sep 2019 04:52  
 Operator : SY/SP  
 Sample : K4650-01  
 Misc : 4.99g/5.0mL/MSVOA X/SOIL  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-1

Quant Time: Sep 08 08:42:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 03 15:26:48 2019  
 Response via : Initial Calibration

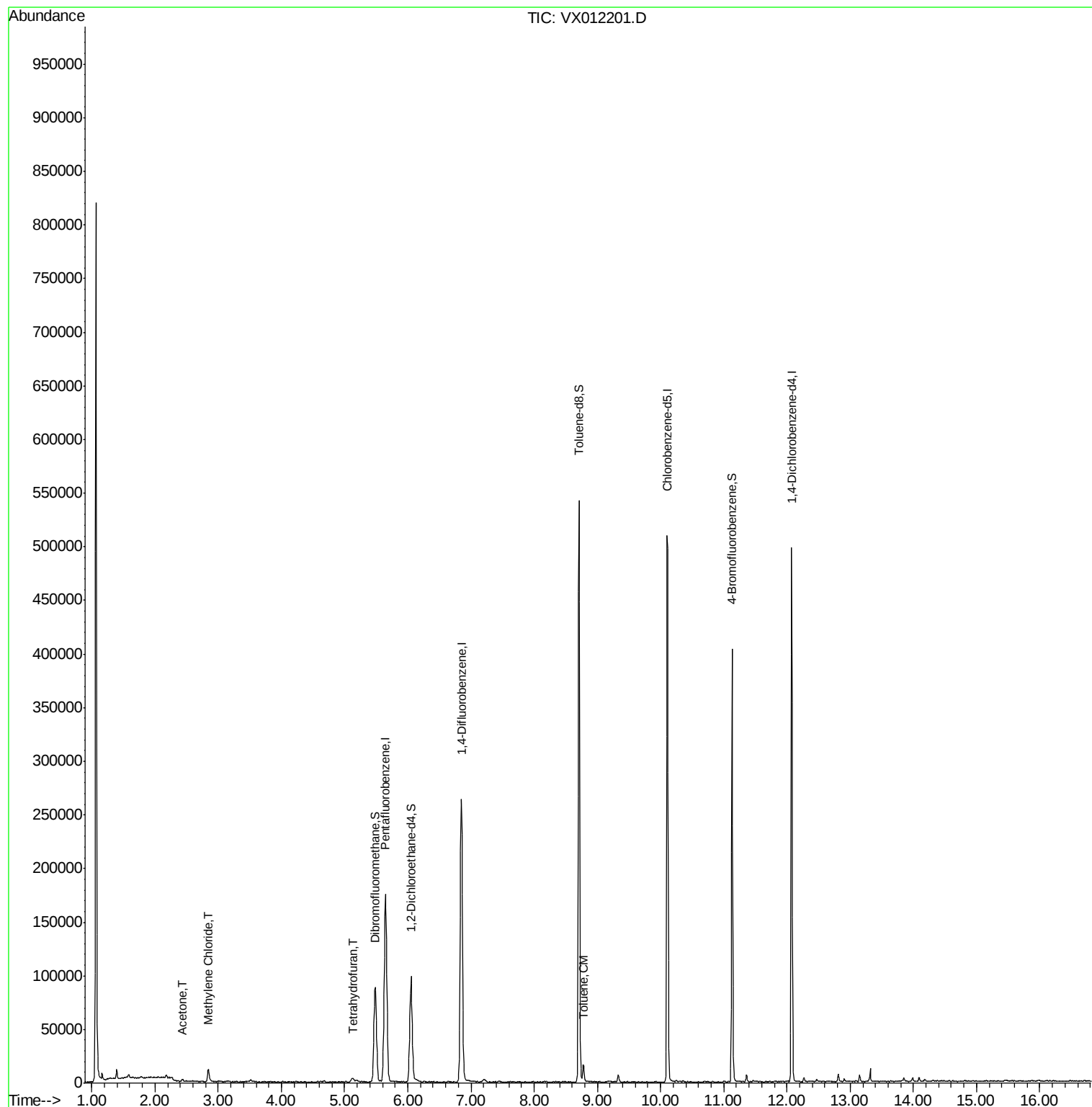
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 5.65  | 168  | 148605   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.85  | 114  | 253923   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11 | 117  | 219234   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.07 | 152  | 90313    | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 99530    | 48.54  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 97.08%  |          |
| 35) Dibromofluoromethane    | 5.48  | 113  | 76221    | 48.81  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 97.62%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 302198   | 52.74  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 105.48% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 115096   | 43.19  | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 86.38%  |          |
| Target Compounds            |       |      |          |        |         |          |
| 16) Acetone                 | 2.43  | 43   | 1815     | 3.703  | ug/l    | 98       |
| 20) Methylene Chloride      | 2.84  | 84   | 5170     | 2.627  | ug/l    | 87       |
| 29) Tetrahydrofuran         | 5.13  | 42   | 4017     | 10.687 | ug/l    | 98       |
| 52) Toluene                 | 8.78  | 92   | 5393     | 1.291  | ug/l    | 98       |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X090319S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 03 15:26:48 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012201.D

Acq: 08 Sep 2019 04:52

Instrument :

MSVOA\_X

ClientSampled :

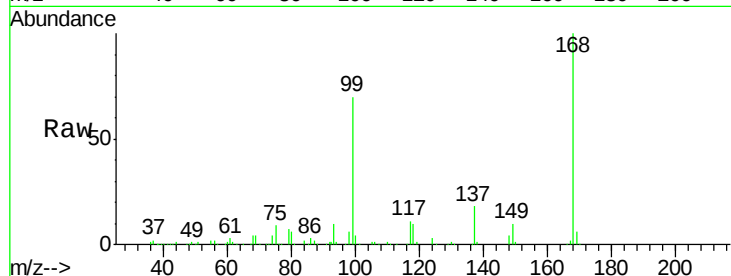
TP-1

Tot Ion:168 Resp: 148605

Ion Ratio Lower Upper

168 100

99 70.2 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

60000

50000

40000

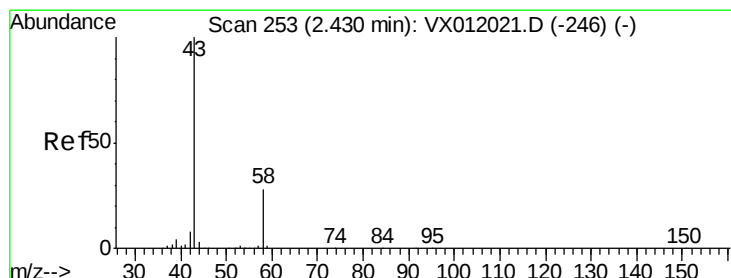
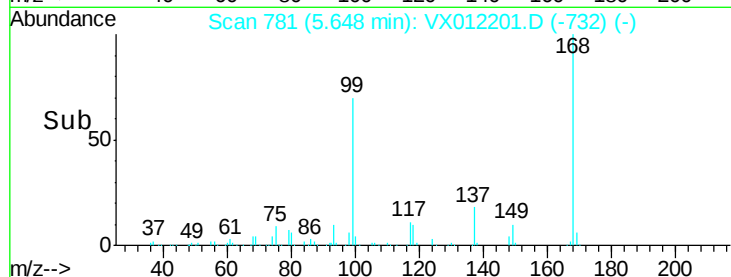
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#16

Acetone

Concen: 3.703 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012201.D

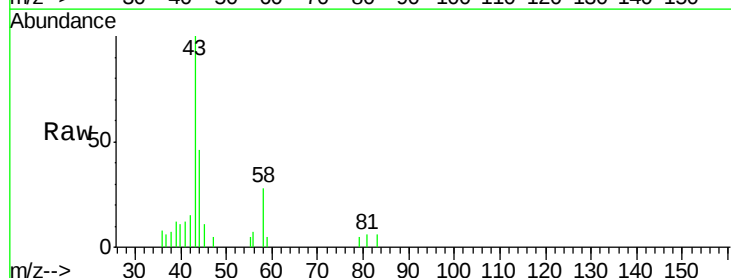
Acq: 08 Sep 2019 04:52

Tgt Ion: 43 Resp: 1815

Ion Ratio Lower Upper

43 100

58 29.3 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

1200

1000

800

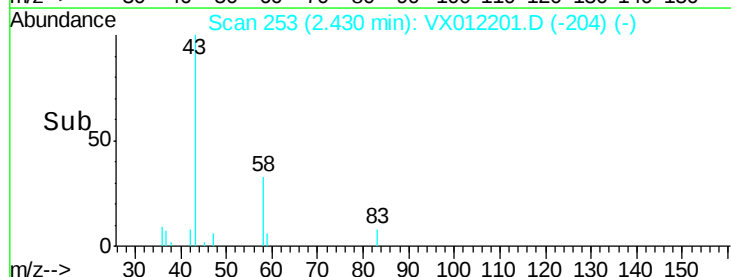
600

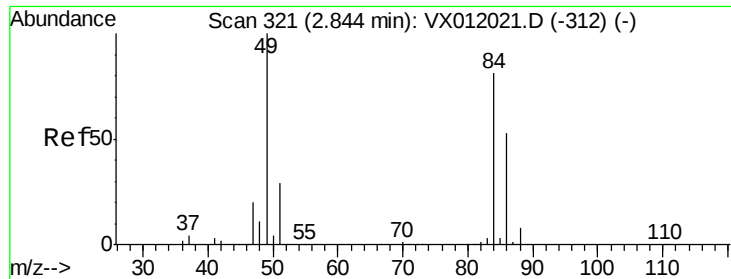
400

200

0

Time--> 2.35 2.40 2.45 2.50

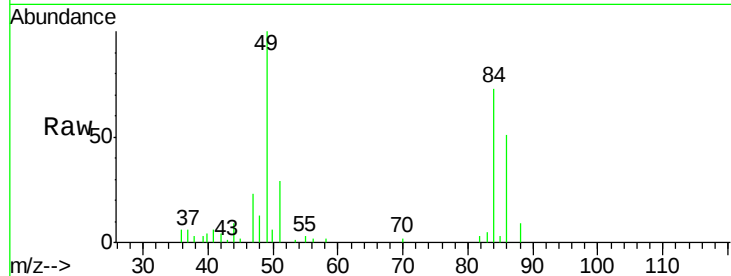




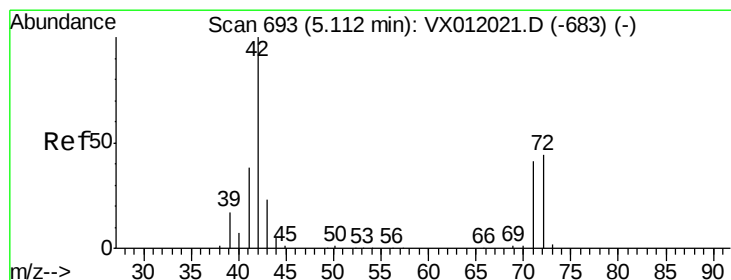
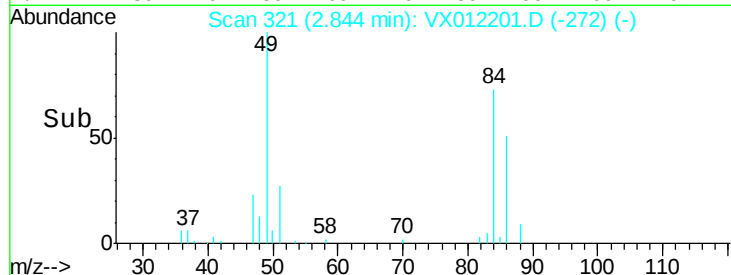
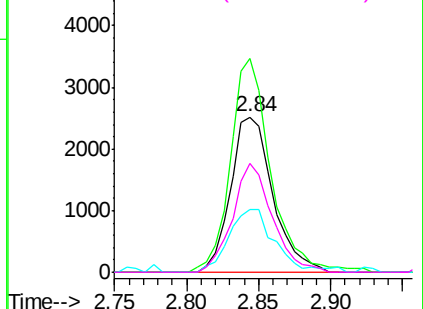
#20  
Methvlene Chloride  
Concen: 2.627 ug/l  
RT: 2.84 min Scan# 321  
Delta R.T. -0.00 min  
Lab File: VX012201.D  
Acq: 08 Sep 2019 04:52

Instrument :  
MSVOA\_X  
ClientSampled :  
TP-1

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 5170  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 137.7 | 95.8  | 143.8 |
| 51       | 40.2  | 28.6  | 43.0  |
| 86       | 70.2  | 50.9  | 76.3  |

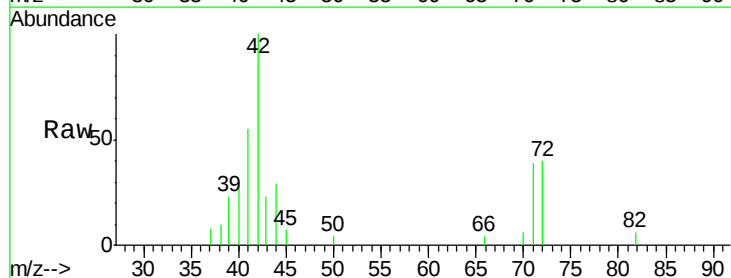


Abundance Ion 83.90 (83.60 to 84.60): VX0  
Ion 48.90 (48.60 to 49.60): VX0  
Ion 50.90 (50.60 to 51.60): VX0  
Ion 85.90 (85.60 to 86.60): VX0

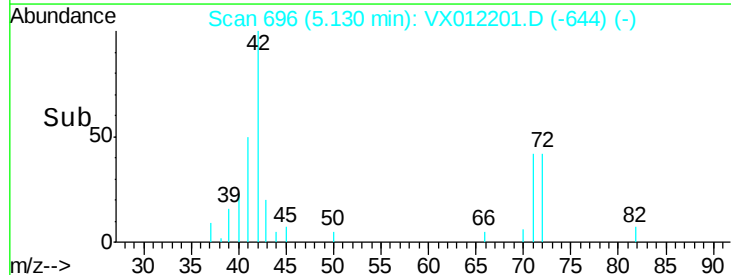
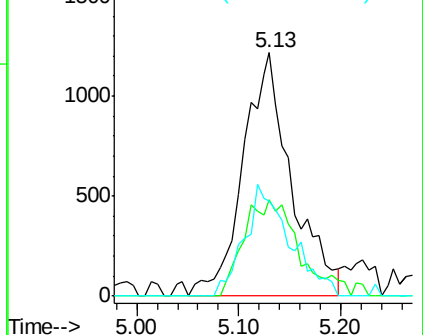


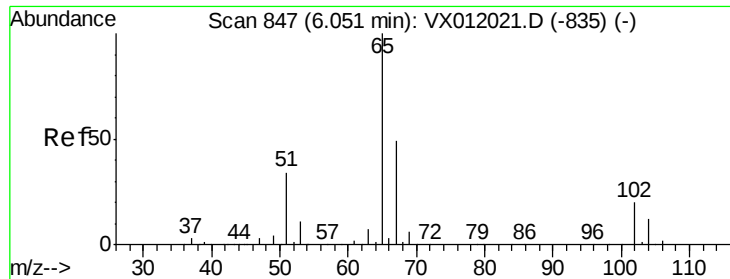
#29  
Tetrahydrofuran  
Concen: 10.687 ug/l  
RT: 5.13 min Scan# 696  
Delta R.T. 0.02 min  
Lab File: VX012201.D  
Acq: 08 Sep 2019 04:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 4017  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 44.7  | 37.0  | 55.4  |
| 71       | 42.9  | 33.8  | 50.8  |



Abundance Ion 42.00 (41.70 to 42.70): VX0  
Ion 72.00 (71.70 to 72.70): VX0  
Ion 71.00 (70.70 to 71.70): VX0

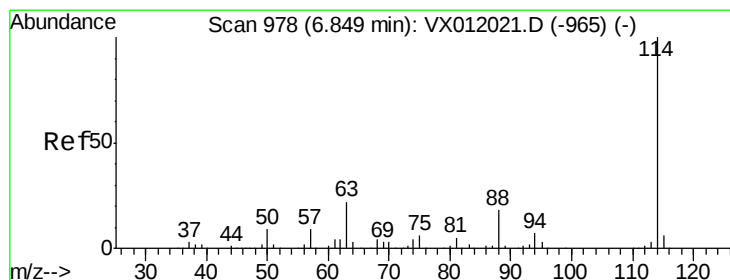
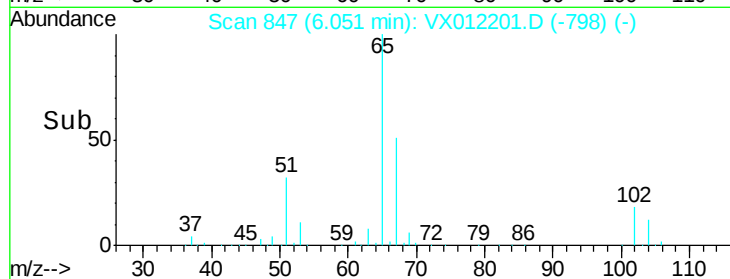
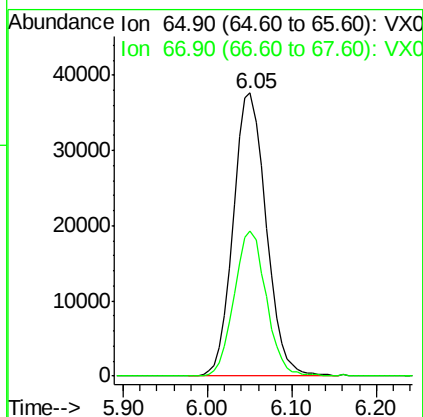
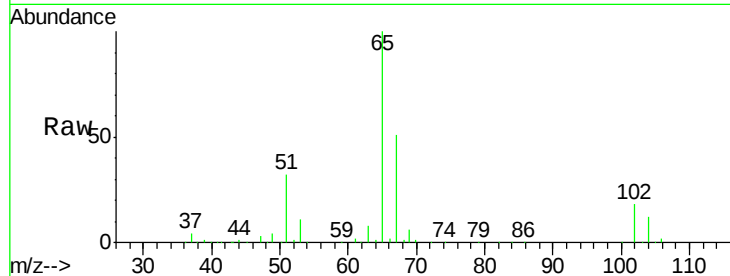




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.540 ug/l  
 RT: 6.05 min Scan# 847  
 Delta R.T. -0.00 min  
 Lab File: VX012201.D  
 Acq: 08 Sep 2019 04:52

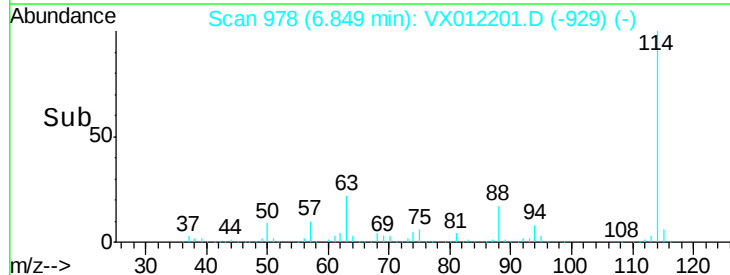
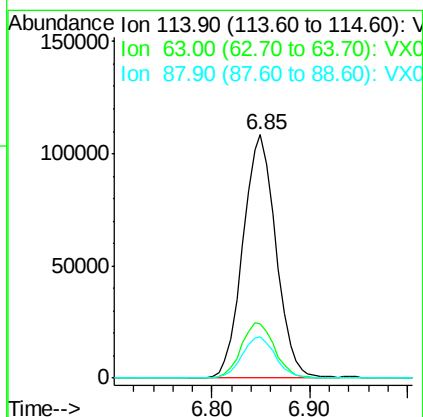
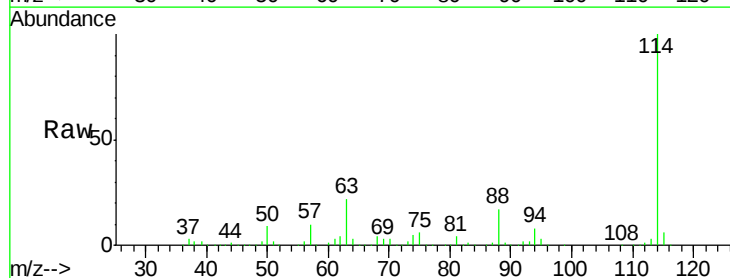
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-1

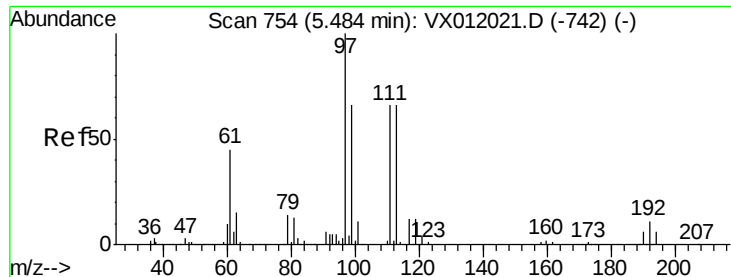
Tot Ion: 65 Resp: 99530  
 Ion Ratio Lower Upper  
 65 100  
 67 50.1 0.0 102.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 978  
 Delta R.T. -0.00 min  
 Lab File: VX012201.D  
 Acq: 08 Sep 2019 04:52

Tgt Ion: 114 Resp: 253923  
 Ion Ratio Lower Upper  
 114 100  
 63 22.1 0.0 37.4  
 88 17.2 0.0 29.6

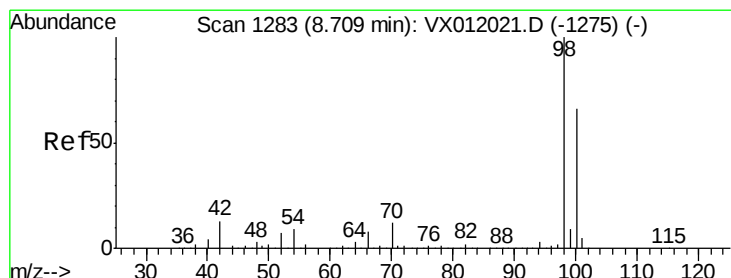
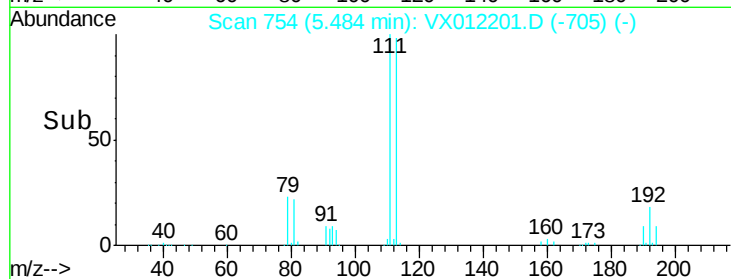
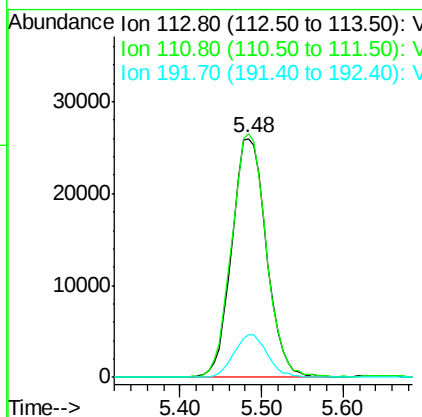
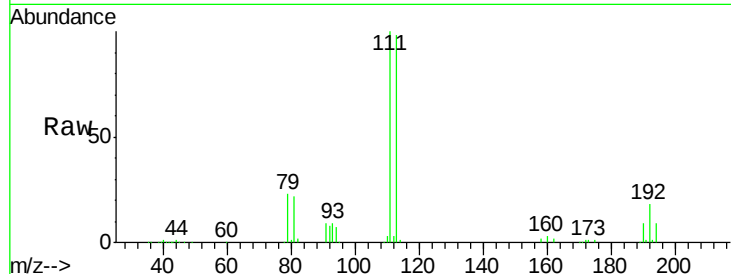




#35  
 Dibromofluoromethane  
 Concen: 48.811 ug/l  
 RT: 5.48 min Scan# 754  
 Delta R.T. -0.00 min  
 Lab File: VX012201.D  
 Acq: 08 Sep 2019 04:52

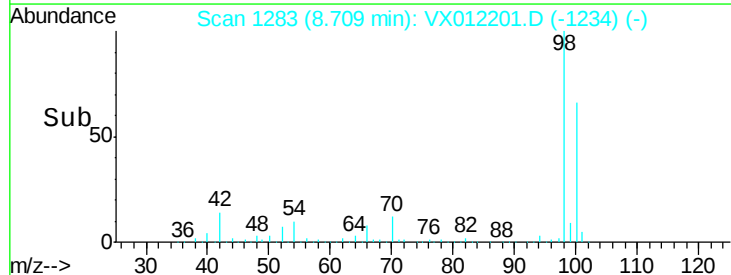
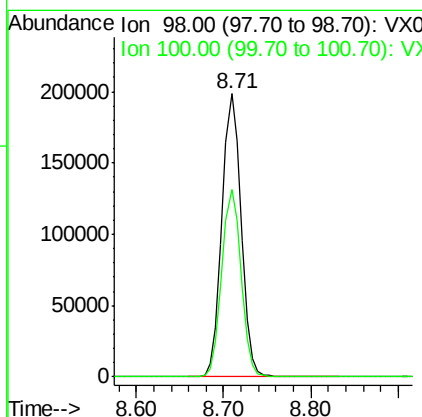
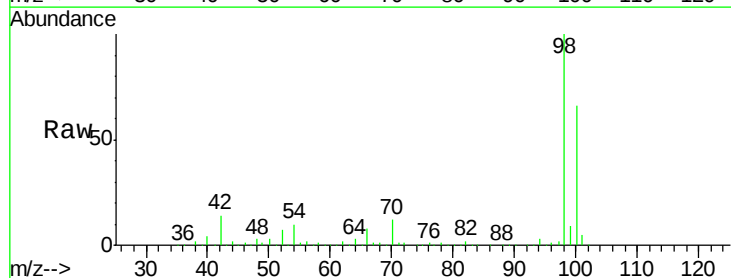
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-1

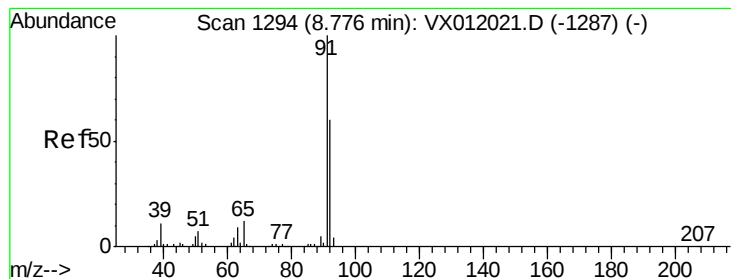
Tot Ion:113 Resp: 76221  
 Ion Ratio Lower Upper  
 113 100  
 111 101.7 81.7 122.5  
 192 17.3 22.5 33.7#



#50  
 Toluene-d8  
 Concen: 52.738 ug/l  
 RT: 8.71 min Scan# 1283  
 Delta R.T. -0.00 min  
 Lab File: VX012201.D  
 Acq: 08 Sep 2019 04:52

Tgt Ion: 98 Resp: 302198  
 Ion Ratio Lower Upper  
 98 100  
 100 66.6 53.3 79.9





#52

Toluene

Concen: 1.291 ug/l

RT: 8.78 min Scan# 1294

Delta R.T. -0.00 min

Lab File: VX012201.D

Acq: 08 Sep 2019 04:52

Instrument :

MSVOA\_X

ClientSampleId :

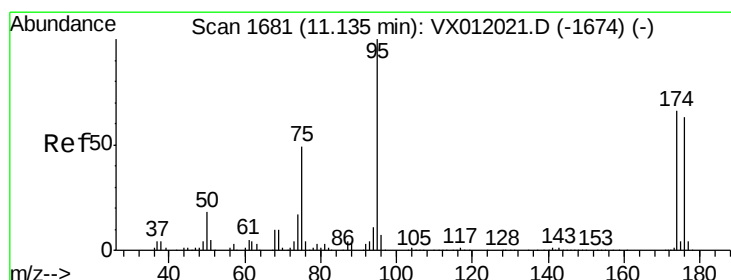
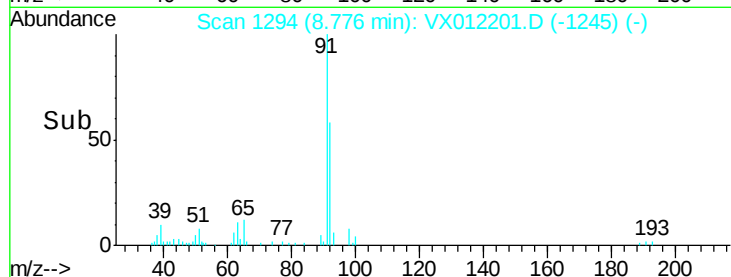
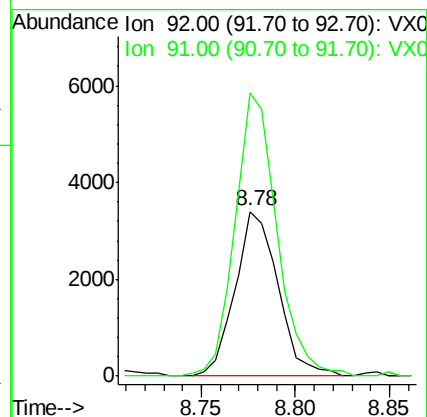
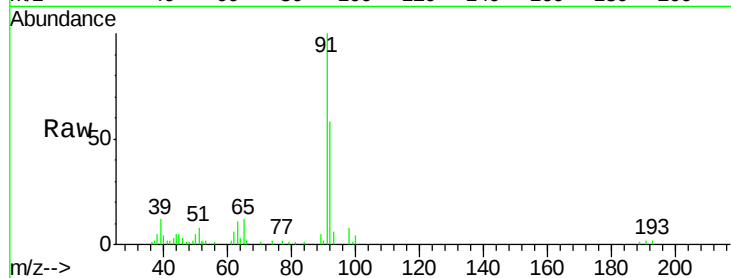
TP-1

Tot Ion: 92 Resp: 5393

Ion Ratio Lower Upper

92 100

91 167.5 136.0 204.0



#62

4-Bromofluorobenzene

Concen: 43.190 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012201.D

Acq: 08 Sep 2019 04:52

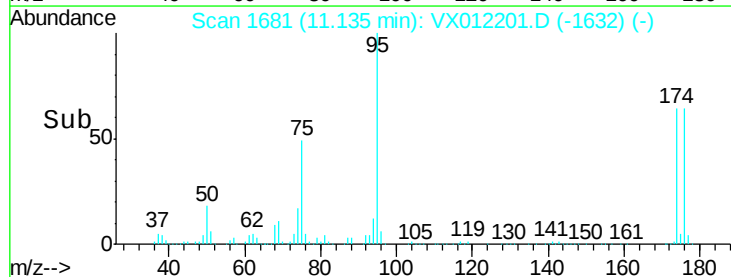
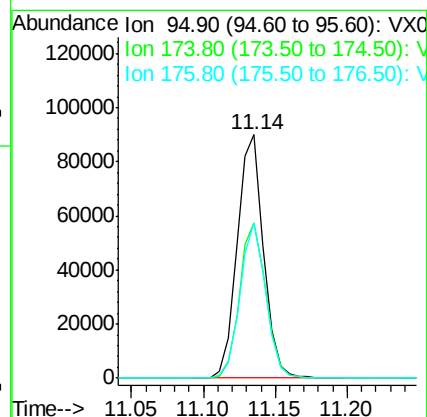
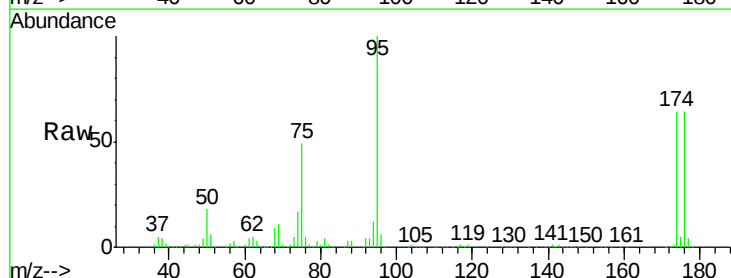
Tgt Ion: 95 Resp: 115096

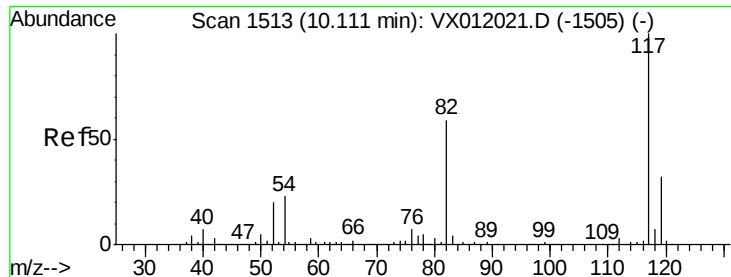
Ion Ratio Lower Upper

95 100

174 63.6 0.0 205.4

176 61.9 0.0 201.8

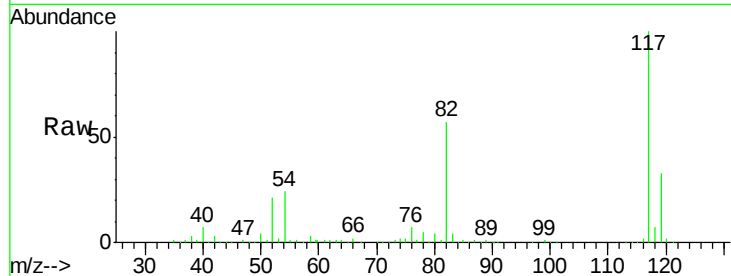




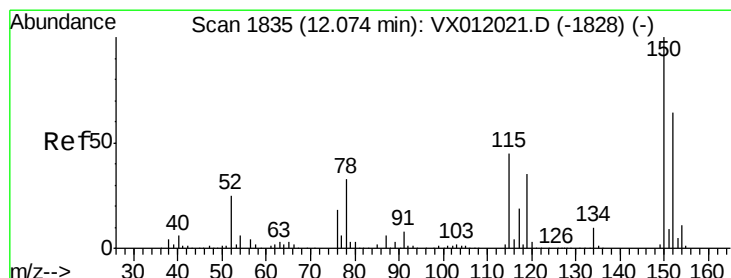
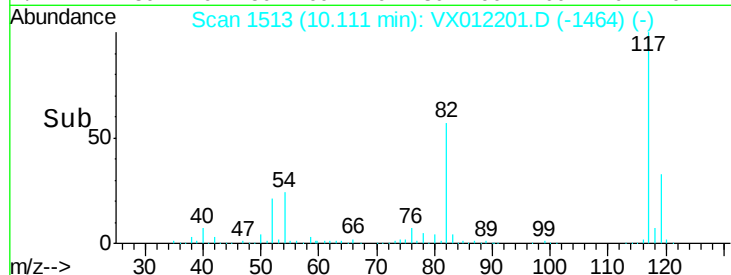
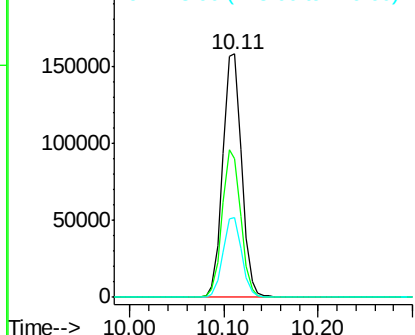
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX012201.D  
Acq: 08 Sep 2019 04:52

Instrument :  
MSVOA\_X  
ClientSampled :  
TP-1

Tot Ion:117 Resp: 219234  
Ion Ratio Lower Upper  
117 100  
82 56.9 39.4 59.0  
119 32.6 26.1 39.1

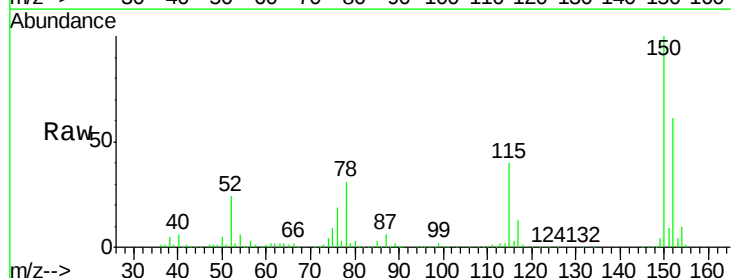


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX012201.D  
Acq: 08 Sep 2019 04:52

Tgt Ion:152 Resp: 90313  
Ion Ratio Lower Upper  
152 100  
115 65.3 36.4 109.3  
150 159.3 0.0 341.2



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

