

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121818\  
 Data File : VX006603.D  
 Acq On : 18 Dec 2018 17:38  
 Operator : JC/MD  
 Sample : J6411-17DL 40X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EP1-MW-I-1218DL

Quant Time: Dec 19 06:58:27 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 18 13:23:17 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 698161   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 1088362  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 984094   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 488944   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 371982   | 49.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.88%  |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 322356   | 46.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.68%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1275876  | 49.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.34%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 478115   | 50.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.62% |          |

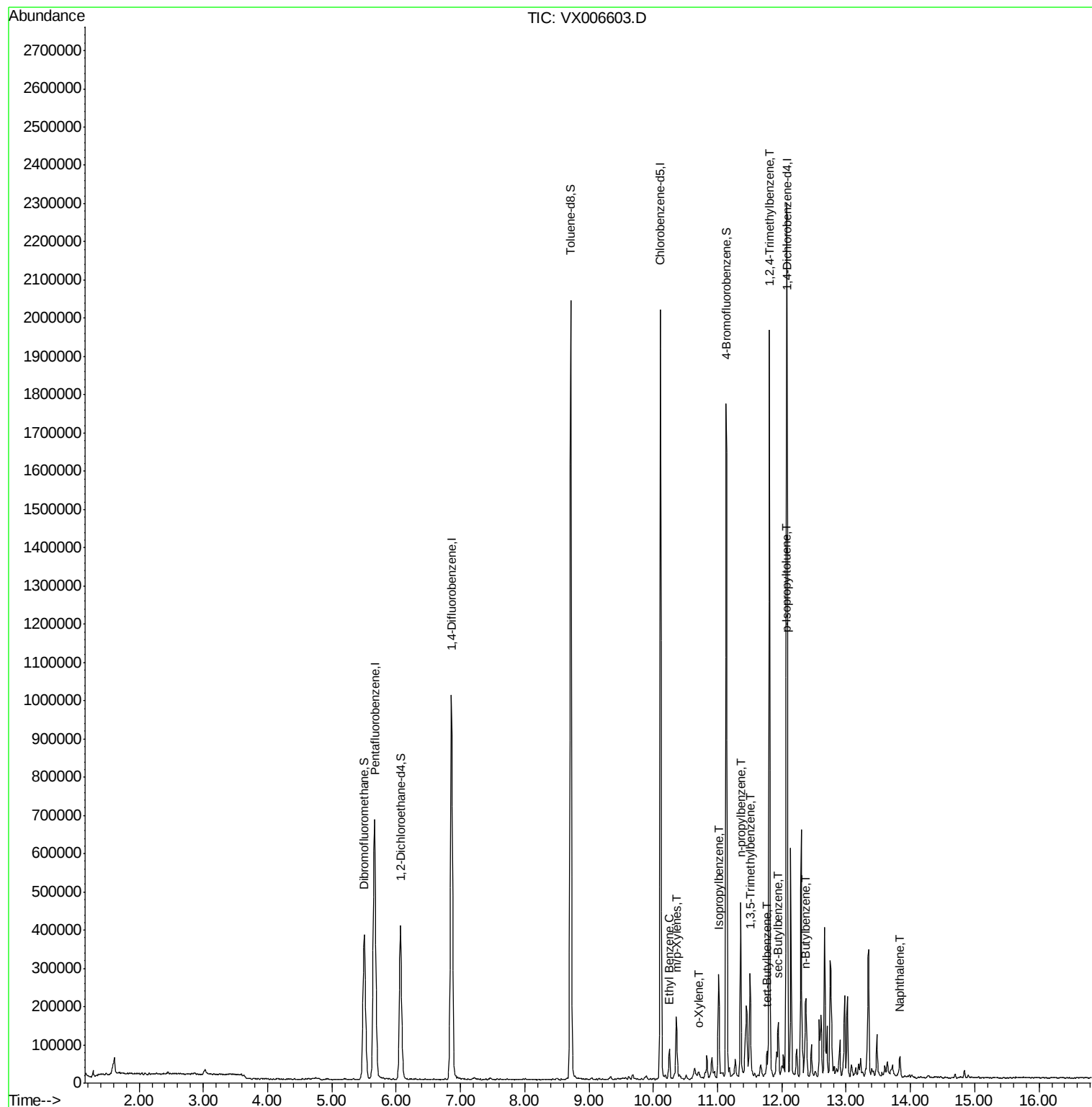
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 67) Ethyl Benzene          | 10.25 | 91   | 43291    | 1.273  | ug/l   | 99     |
| 68) m/p-Xylenes            | 10.36 | 106  | 37142    | 2.767  | ug/l   | 100    |
| 69) o-Xylene               | 10.69 | 106  | 3443     | 0.260  | ug/l   | 99     |
| 73) Isopropylbenzene       | 11.02 | 105  | 140436   | 4.198  | ug/l   | 99     |
| 78) n-propylbenzene        | 11.36 | 91   | 270665   | 7.348  | ug/l   | 99     |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105  | 112215   | 4.073  | ug/l   | 98     |
| 83) tert-Butylbenzene      | 11.77 | 119  | 16981    | 0.616  | ug/l   | 91     |
| 84) 1,2,4-Trimethylbenzene | 11.80 | 105  | 858359   | 29.620 | ug/l   | 99     |
| 85) sec-Butylbenzene       | 11.94 | 105  | 68982    | 2.040  | ug/l # | 76     |
| 86) p-Isopropyltoluene     | 12.06 | 119  | 32551    | 1.095  | ug/l   | 95     |
| 89) n-Butylbenzene         | 12.38 | 91   | 45037    | 1.781  | ug/l # | 61     |
| 95) Naphthalene            | 13.83 | 128  | 35479    | 0.988  | ug/l   | 99     |

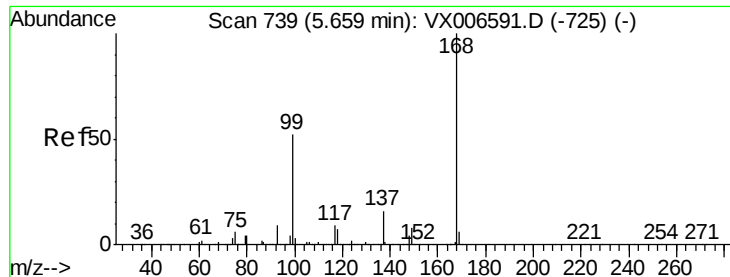
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121818\  
Data File : VX006603.D  
Acq On : 18 Dec 2018 17:38  
Operator : JC/MD  
Sample : J6411-17DL 40X  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-MW-I-1218DL

Quant Time: Dec 19 06:58:27 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 18 13:23:17 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006603.D

Acq: 18 Dec 2018 17:38

Instrument :

MSVOA\_X

ClientSampleId :

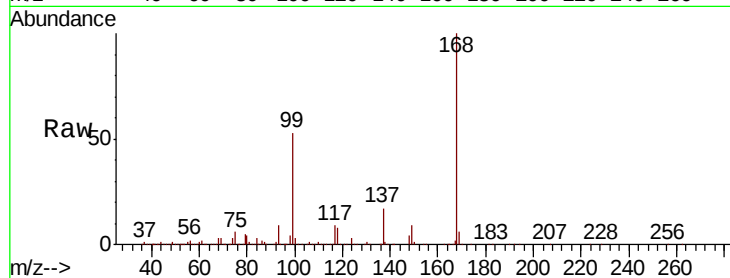
EP1-MW-I-1218DL

Tot Ion:168 Resp: 698161

Ion Ratio Lower Upper

168 100

99 52.6 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

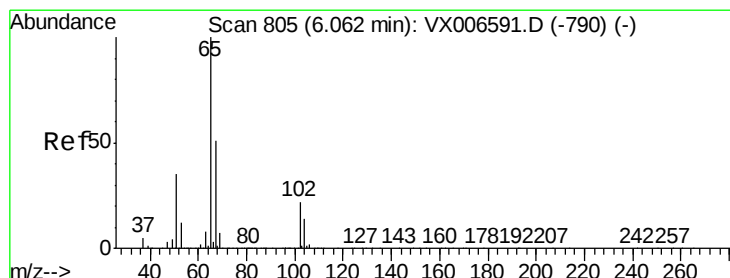
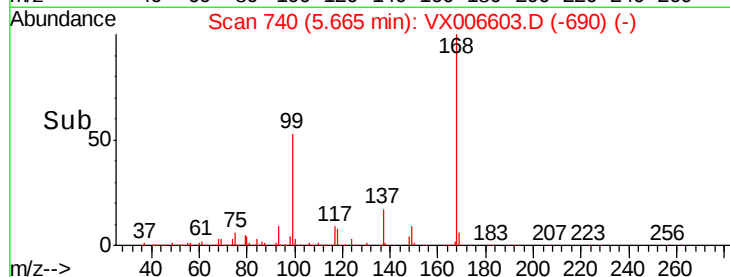
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 49.436 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006603.D

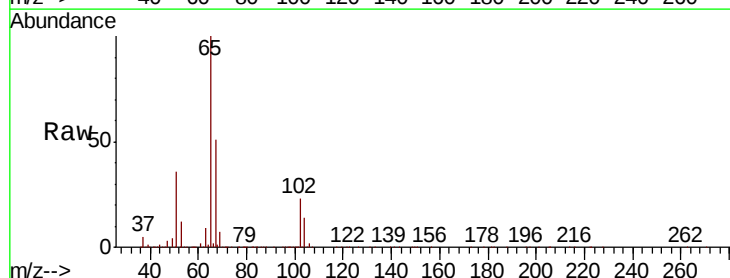
Acq: 18 Dec 2018 17:38

Tgt Ion: 65 Resp: 371982

Ion Ratio Lower Upper

65 100

67 53.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

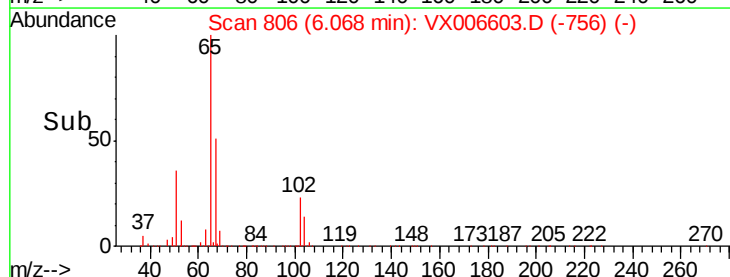
150000

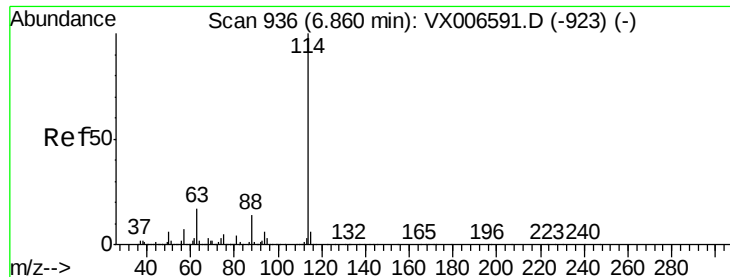
100000

50000

0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006603.D

Acq: 18 Dec 2018 17:38

Instrument :

MSVOA\_X

ClientSampleId :

EP1-MW-I-1218DL

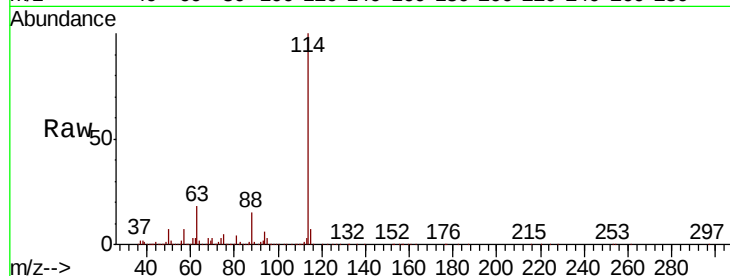
Tot Ion:114 Resp: 1088362

Ion Ratio Lower Upper

114 100

63 18.0 0.0 36.6

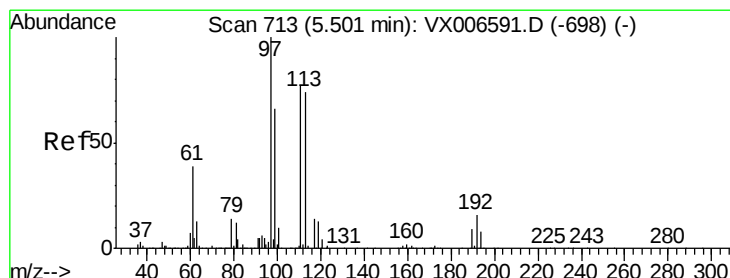
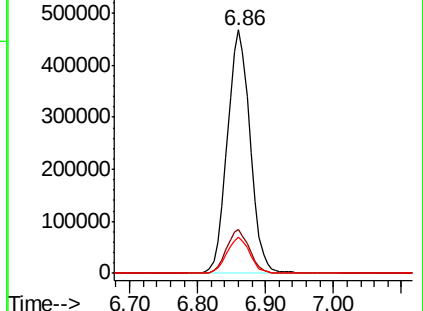
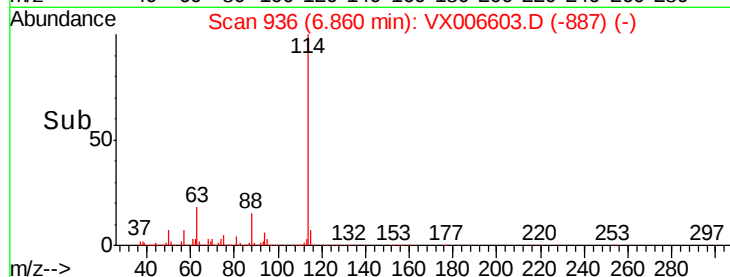
88 14.8 0.0 29.0



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: 46.836 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006603.D

Acq: 18 Dec 2018 17:38

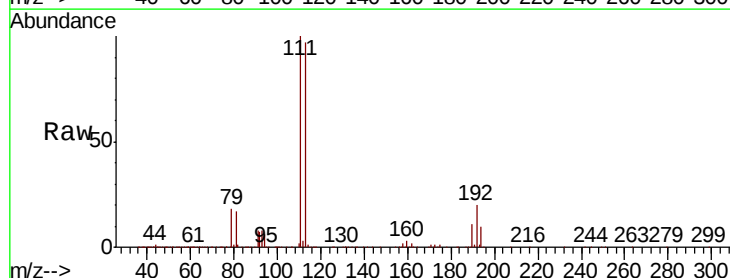
Tgt Ion:113 Resp: 322356

Ion Ratio Lower Upper

113 100

111 102.7 81.1 121.7

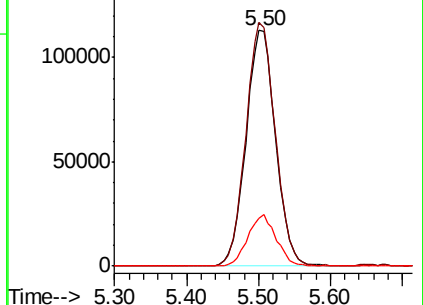
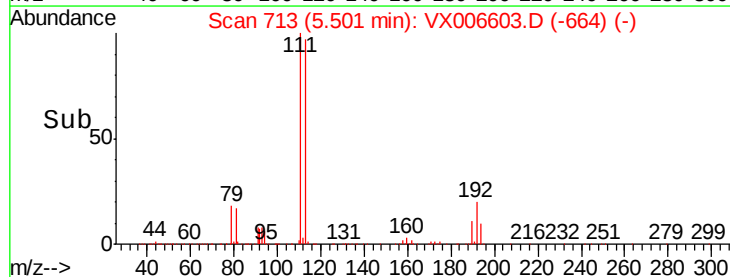
192 20.9 18.2 27.2

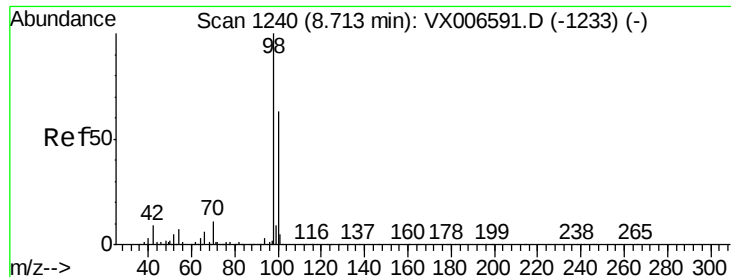


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 49.171 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006603.D

Acq: 18 Dec 2018 17:38

Instrument :

MSVOA\_X

ClientSampleId :

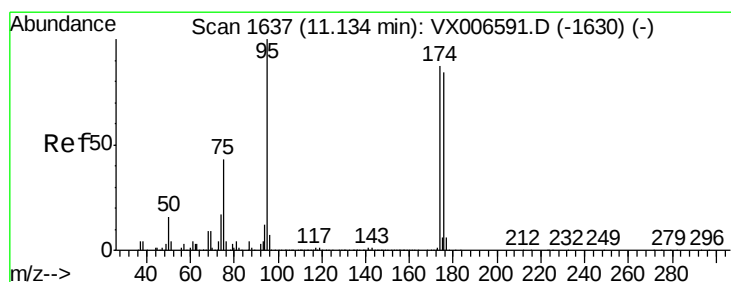
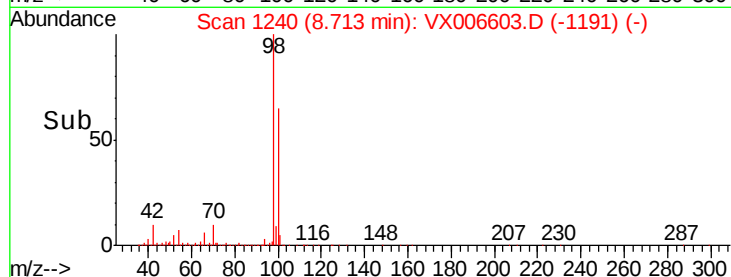
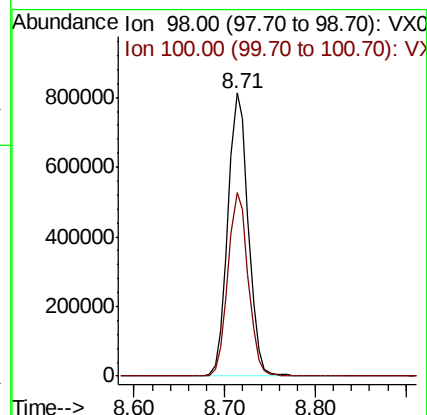
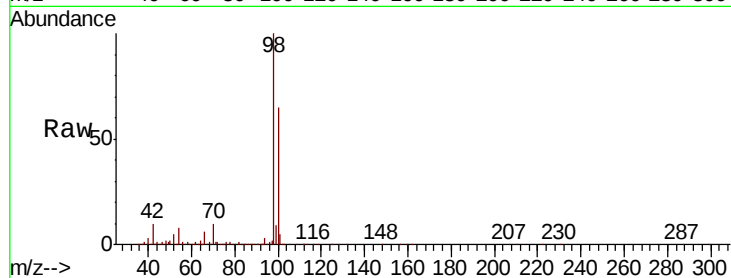
EP1-MW-I-1218DL

Tot Ion: 98 Resp: 1275876

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 50.311 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006603.D

Acq: 18 Dec 2018 17:38

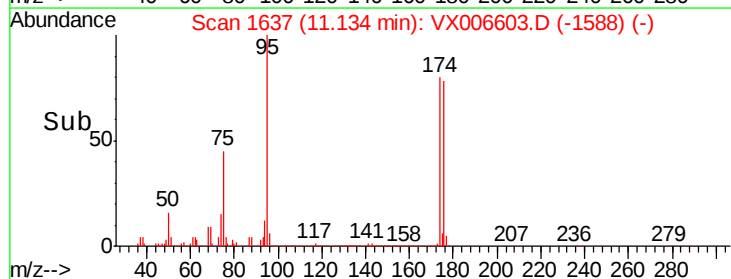
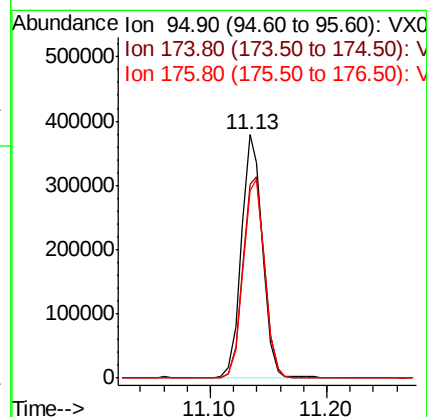
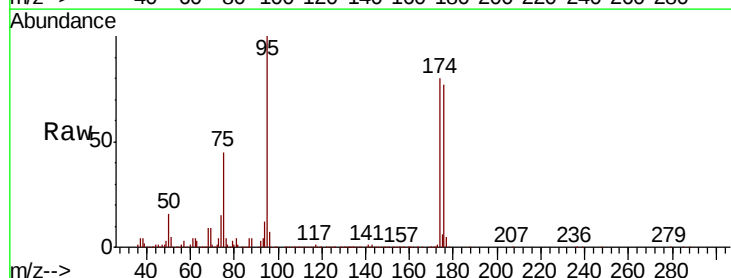
Tgt Ion: 95 Resp: 478115

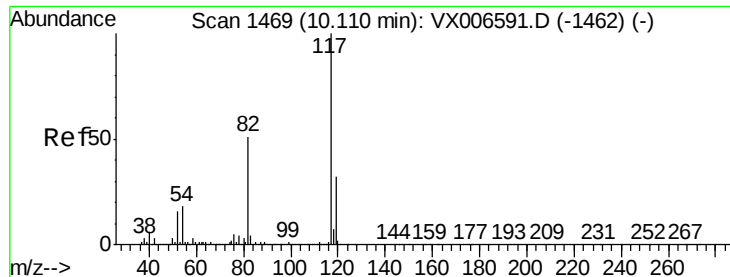
Ion Ratio Lower Upper

95 100

174 85.6 0.0 187.0

176 83.5 0.0 181.8

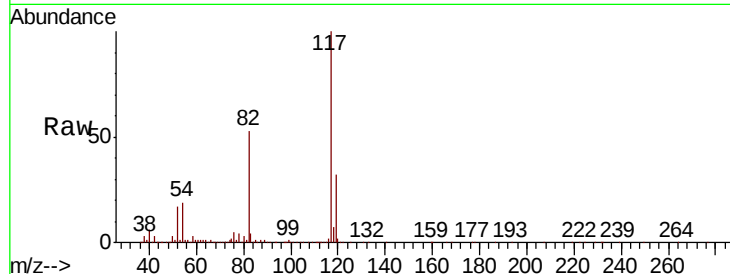




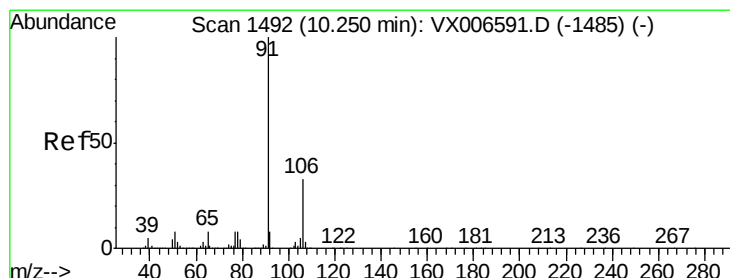
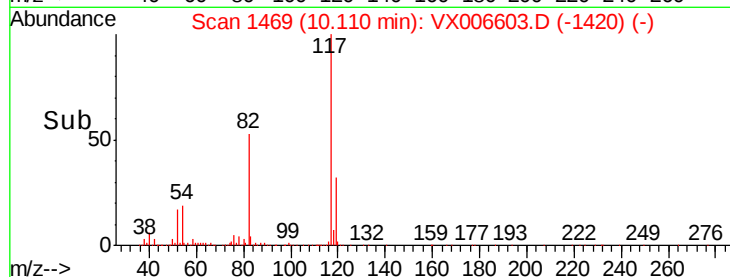
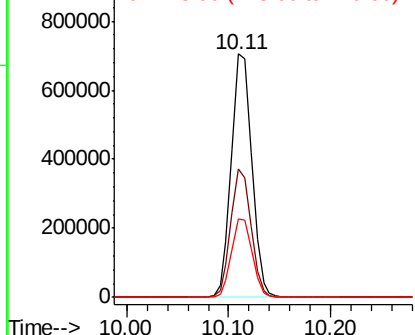
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX006603.D  
Acq: 18 Dec 2018 17:38

Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-MW-I-1218DL

Tot Ion:117 Resp: 984094  
Ion Ratio Lower Upper  
117 100  
82 52.9 39.6 59.4  
119 32.5 26.3 39.5

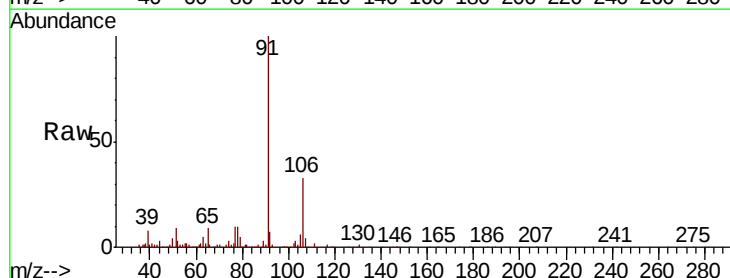


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

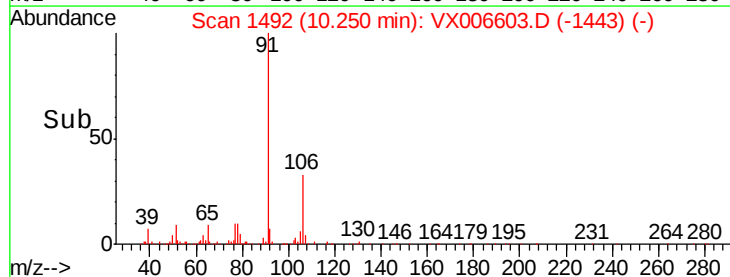
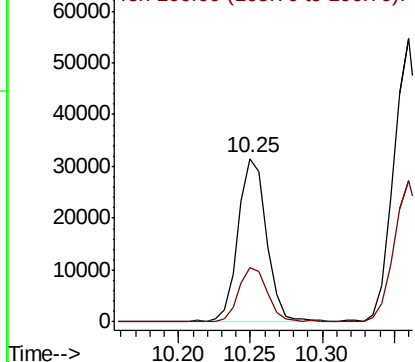


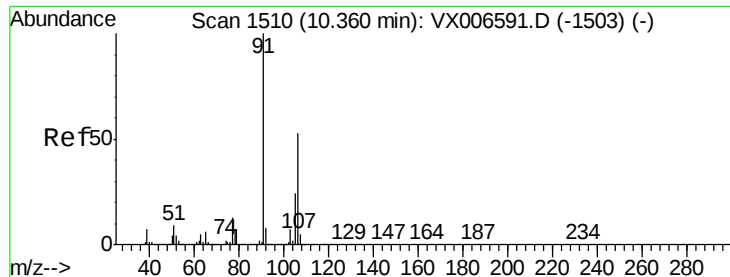
#67  
Ethyl Benzene  
Concen: 1.273 ug/l  
RT: 10.25 min Scan# 1492  
Delta R.T. 0.00 min  
Lab File: VX006603.D  
Acq: 18 Dec 2018 17:38

Tgt Ion: 91 Resp: 43291  
Ion Ratio Lower Upper  
91 100  
106 33.4 26.5 39.7



Abundance Ion 91.00 (90.70 to 91.70): VX0  
Ion 106.00 (105.70 to 106.70): V

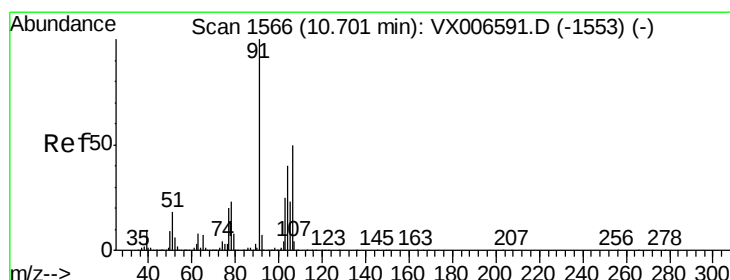
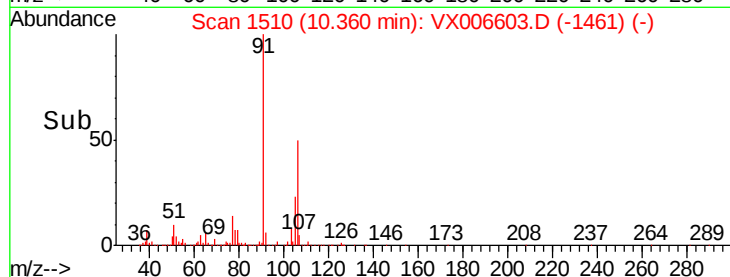
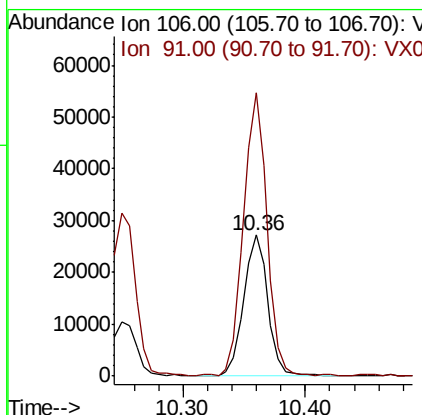
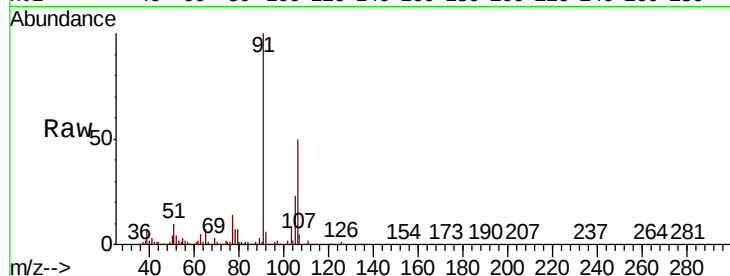




#68  
m/p-Xylenes  
Concen: 2.767 ug/l  
RT: 10.36 min Scan# 1510  
Delta R.T. 0.00 min  
Lab File: VX006603.D  
Acq: 18 Dec 2018 17:38

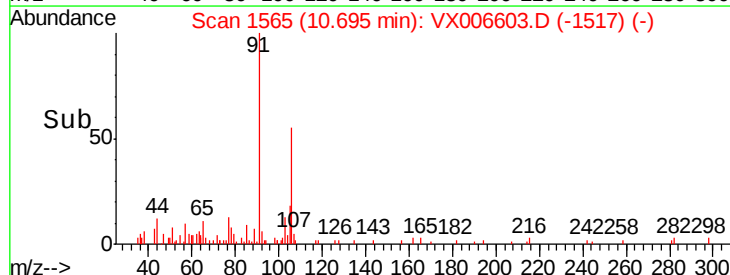
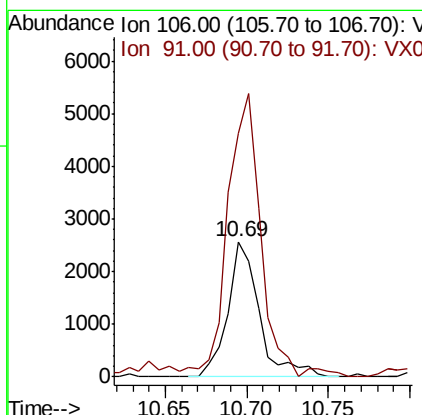
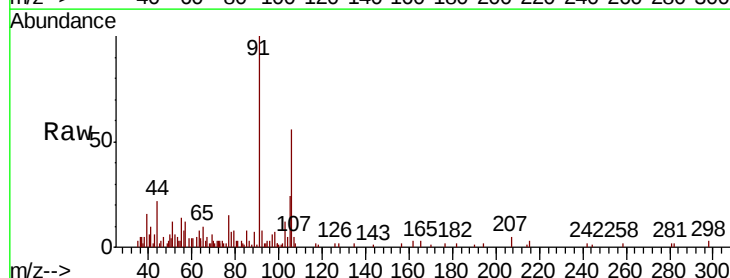
Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-MW-I-1218DL

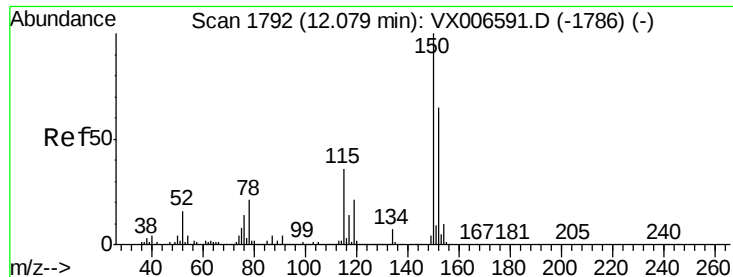
Tot Ion:106 Resp: 37142  
Ion Ratio Lower Upper  
106 100  
91 194.3 155.2 232.8



#69  
o-Xylene  
Concen: 0.260 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. -0.01 min  
Lab File: VX006603.D  
Acq: 18 Dec 2018 17:38

Tgt Ion:106 Resp: 3443  
Ion Ratio Lower Upper  
106 100  
91 205.8 101.8 305.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006603.D

Acq: 18 Dec 2018 17:38

Instrument :

MSVOA\_X

ClientSampleId :

EP1-MW-I-1218DL

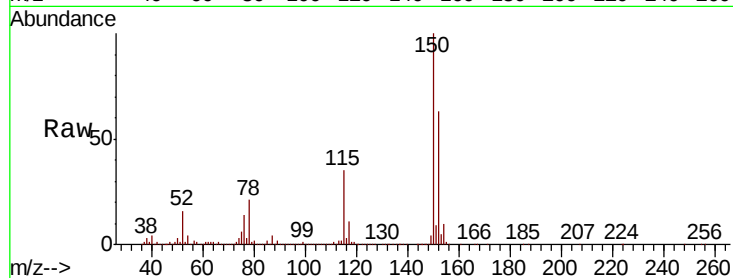
Tot Ion:152 Resp: 488944

Ion Ratio Lower Upper

152 100

115 56.3 39.0 116.9

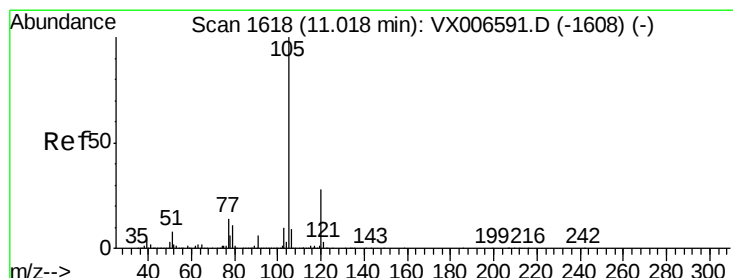
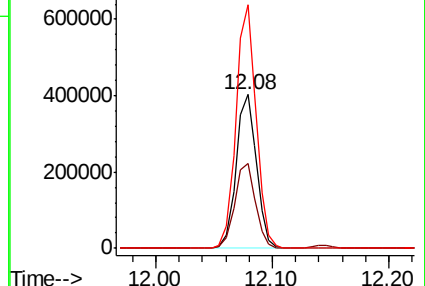
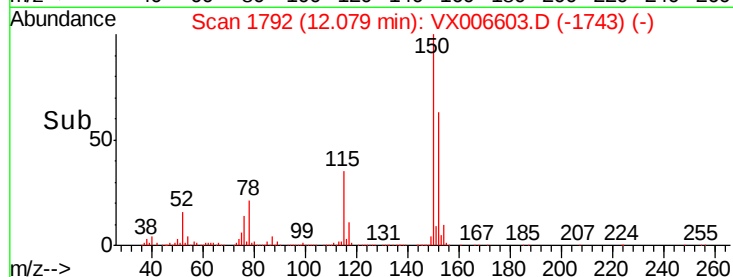
150 156.8 0.0 345.8



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



#73

Isopropylbenzene

Concen: 4.198 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX006603.D

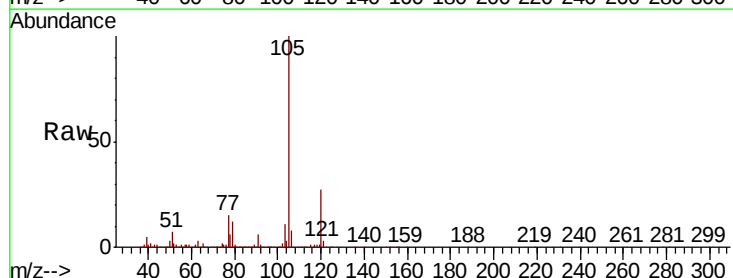
Acq: 18 Dec 2018 17:38

Tgt Ion:105 Resp: 140436

Ion Ratio Lower Upper

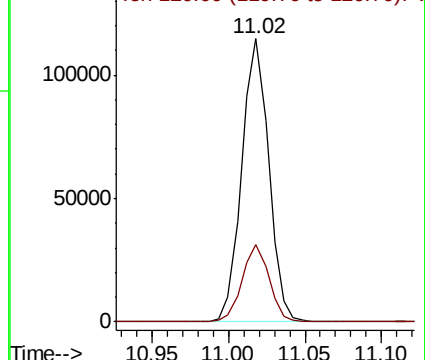
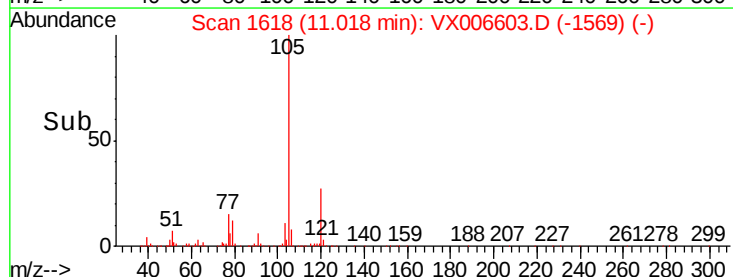
105 100

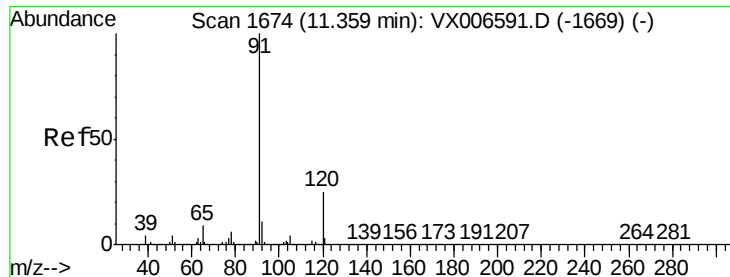
120 27.6 14.1 42.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 7.348 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX006603.D

Acq: 18 Dec 2018 17:38

Instrument :

MSVOA\_X

ClientSampleId :

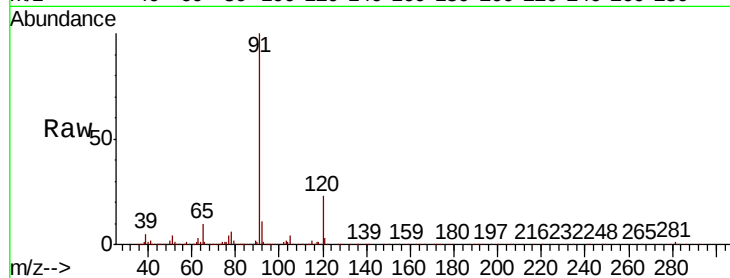
EP1-MW-I-1218DL

Tot Ion: 91 Resp: 270665

Ion Ratio Lower Upper

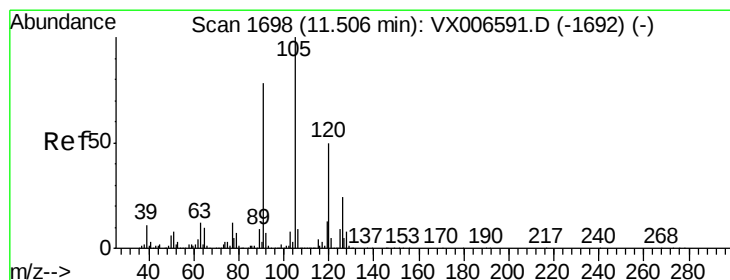
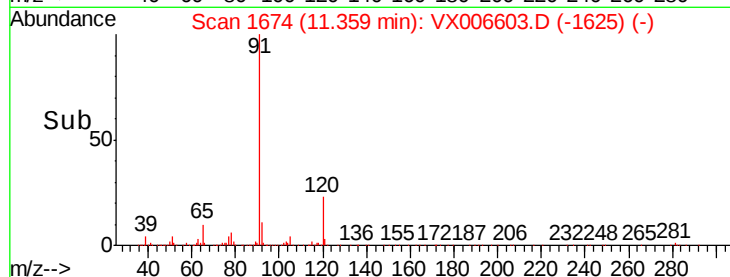
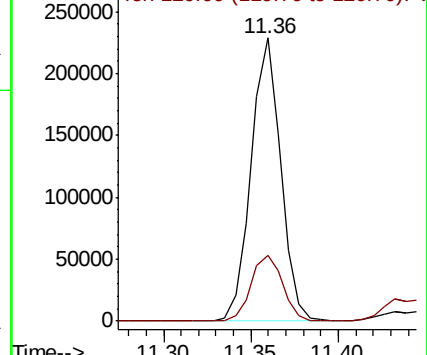
91 100

120 24.6 12.7 38.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 4.073 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX006603.D

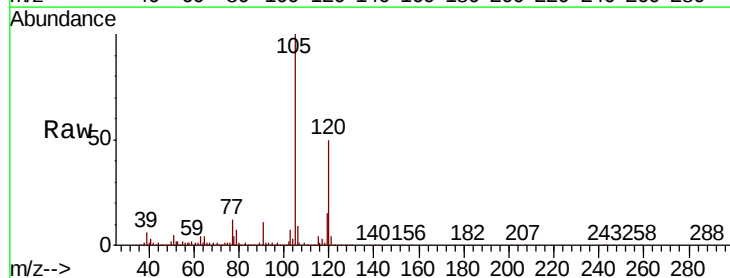
Acq: 18 Dec 2018 17:38

Tgt Ion: 105 Resp: 112215

Ion Ratio Lower Upper

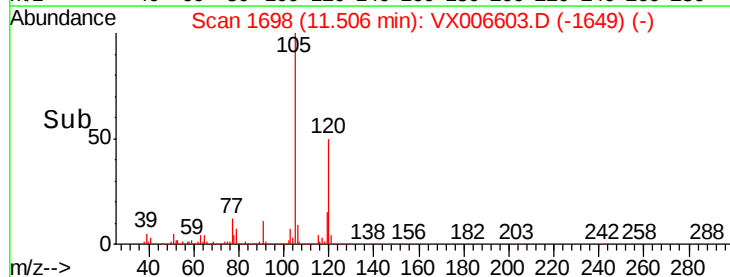
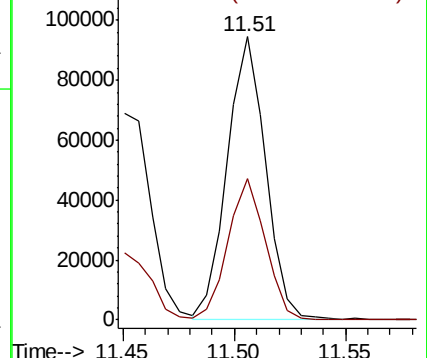
105 100

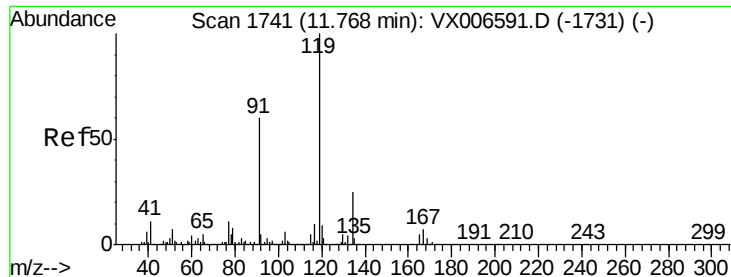
120 49.5 25.4 76.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

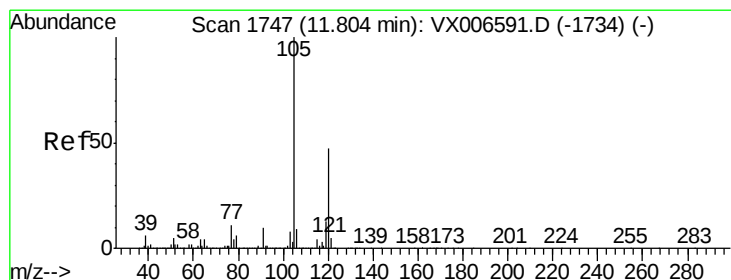
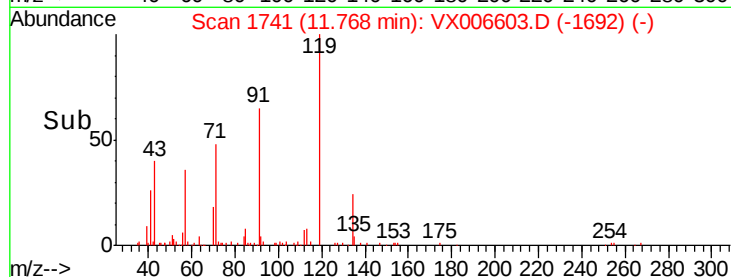
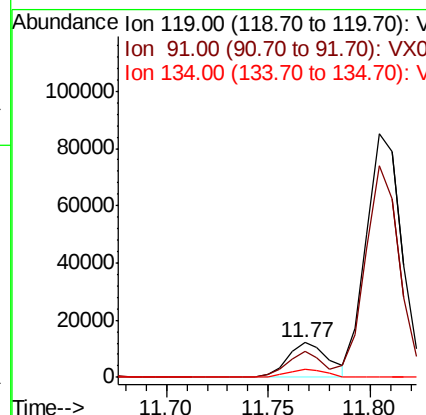
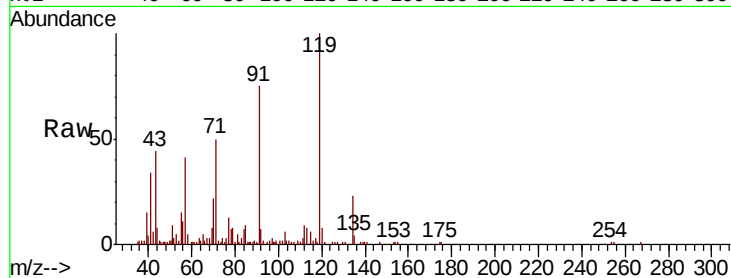




#83  
tert-Butylbenzene  
Concen: 0.616 ug/l  
RT: 11.77 min Scan# 1741  
Delta R.T. 0.00 min  
Lab File: VX006603.D  
Acq: 18 Dec 2018 17:38

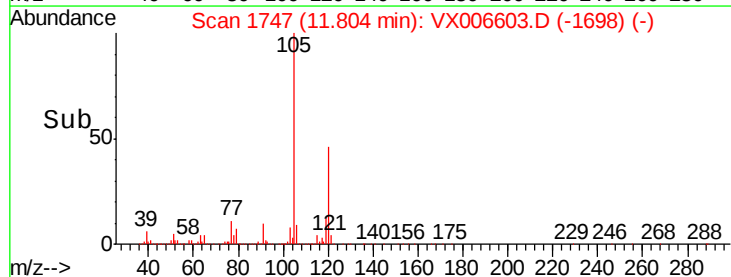
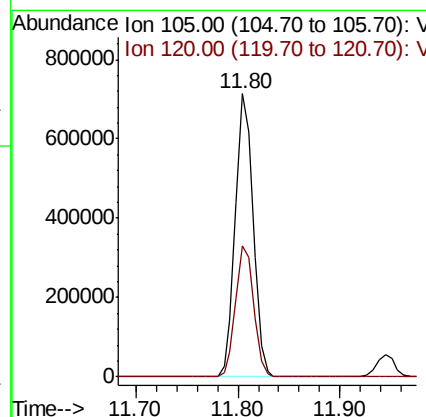
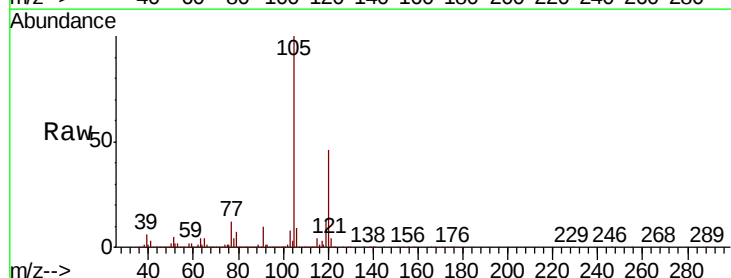
Instrument :  
MSVOA\_X  
ClientSampleId :  
EP1-MW-I-1218DL

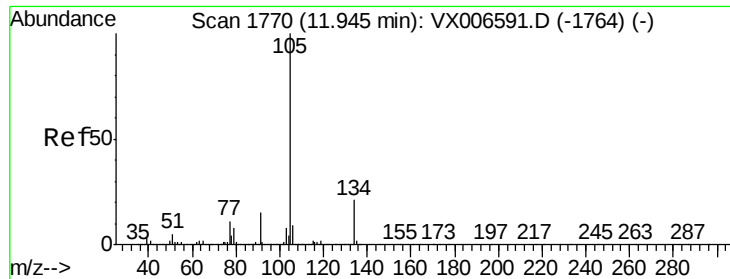
Tot Ion:119 Resp: 16981  
Ion Ratio Lower Upper  
119 100  
91 61.9 26.4 79.2  
134 23.1 11.6 34.7



#84  
1,2,4-Trimethylbenzene  
Concen: 29.620 ug/l  
RT: 11.80 min Scan# 1747  
Delta R.T. 0.00 min  
Lab File: VX006603.D  
Acq: 18 Dec 2018 17:38

Tgt Ion:105 Resp: 858359  
Ion Ratio Lower Upper  
105 100  
120 47.3 23.4 70.0





#85

sec-Butylbenzene

Concen: 2.040 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX006603.D

Acq: 18 Dec 2018 17:38

Instrument :

MSVOA\_X

ClientSampleId :

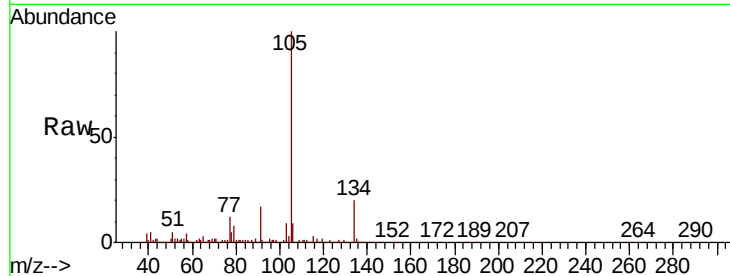
EP1-MW-I-1218DL

Tot Ion:105 Resp: 68982

Ion Ratio Lower Upper

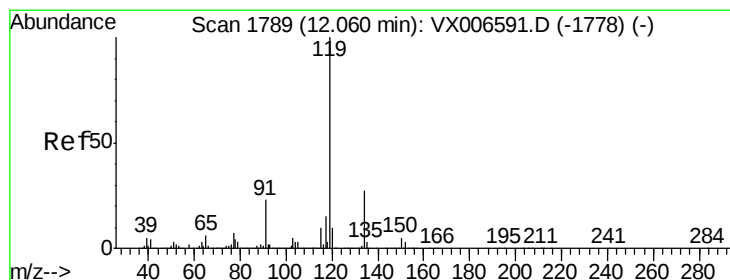
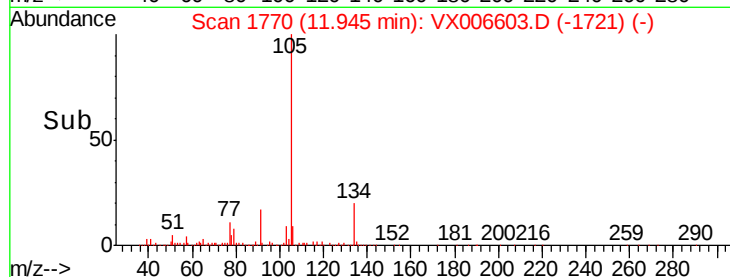
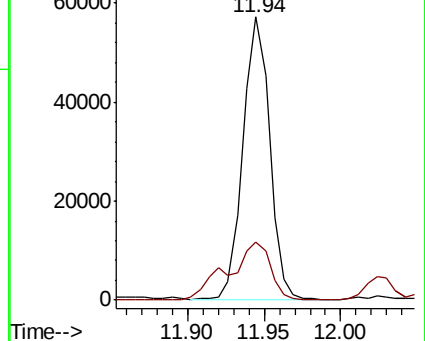
105 100

134 33.0 10.8 32.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.095 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX006603.D

Acq: 18 Dec 2018 17:38

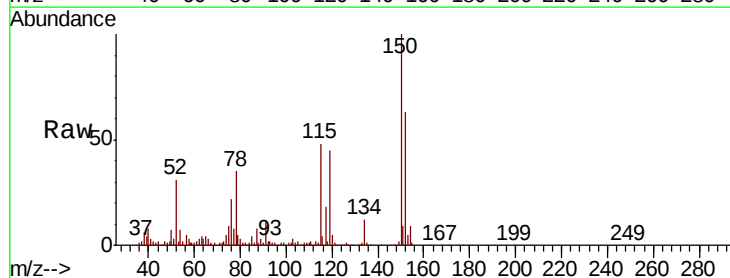
Tgt Ion:119 Resp: 32551

Ion Ratio Lower Upper

119 100

134 28.9 13.9 41.6

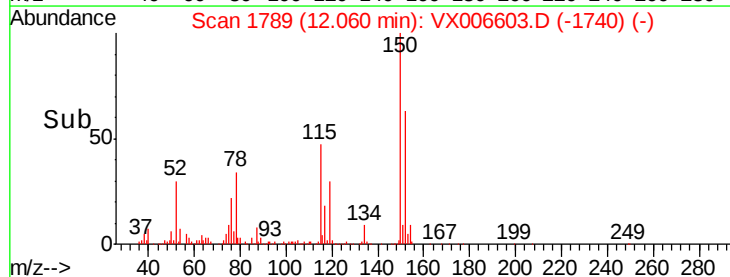
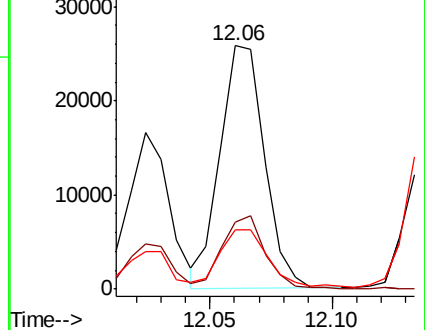
91 26.3 11.3 33.8

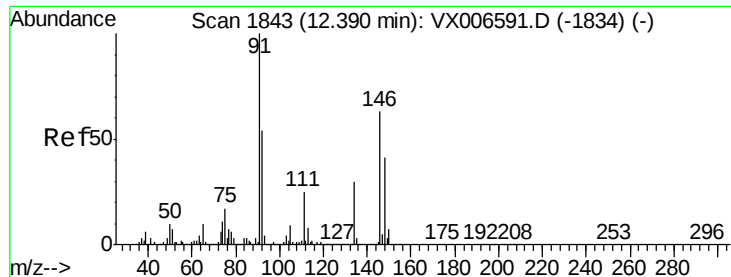


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

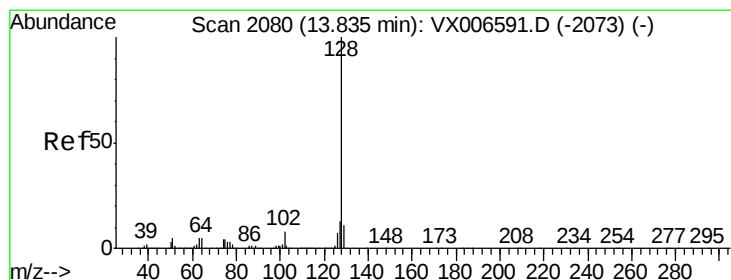
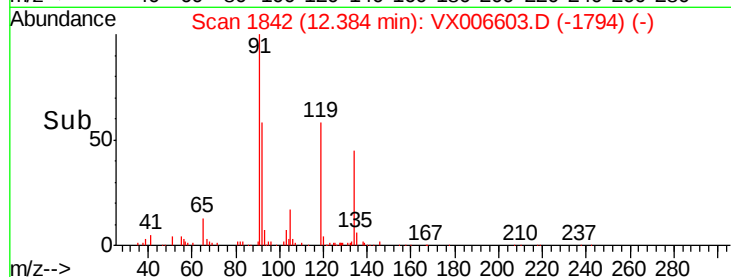
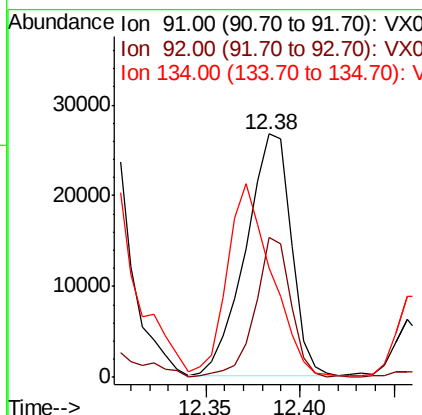
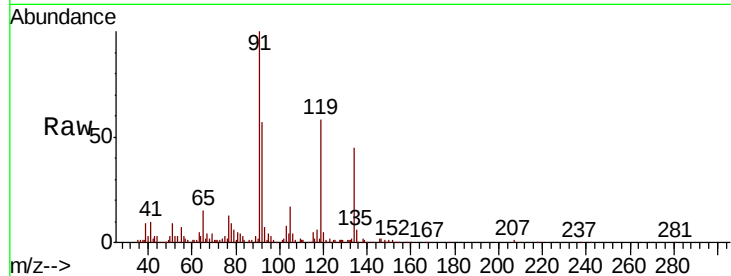




#89  
n-Butylbenzene  
Concen: 1.781 ug/l  
RT: 12.38 min Scan# 1842  
Delta R.T. -0.01 min  
Lab File: VX006603.D  
Acq: 18 Dec 2018 17:38

Instrument :  
MSVOA\_X  
ClientSampleID :  
EP1-MW-I-1218DL

Tot Ion: 91 Resp: 45037  
Ion Ratio Lower Upper  
91 100  
92 45.2 26.6 79.8  
134 78.1 14.8 44.3#



#95  
Naphthalene  
Concen: 0.988 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX006603.D  
Acq: 18 Dec 2018 17:38

Tgt Ion: 128 Resp: 35479  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.2 15.4  
129 11.3 8.9 13.3

