

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060618\  
 Data File : VX002360.D  
 Acq On : 06 Jun 2018 18:36  
 Operator : JC/MD  
 Sample : J3312-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 W-16

Quant Time: Jun 18 12:51:37 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 05 03:22:35 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 234100   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 344327   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 309795   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 179145   | 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   | 162691   | 48.49 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.98% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 121466   | 44.86 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.72% |          |
| 50) Toluene-d8              | 8.72  | 98   | 491757   | 47.38 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.76% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 172048   | 42.99 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.98% |          |

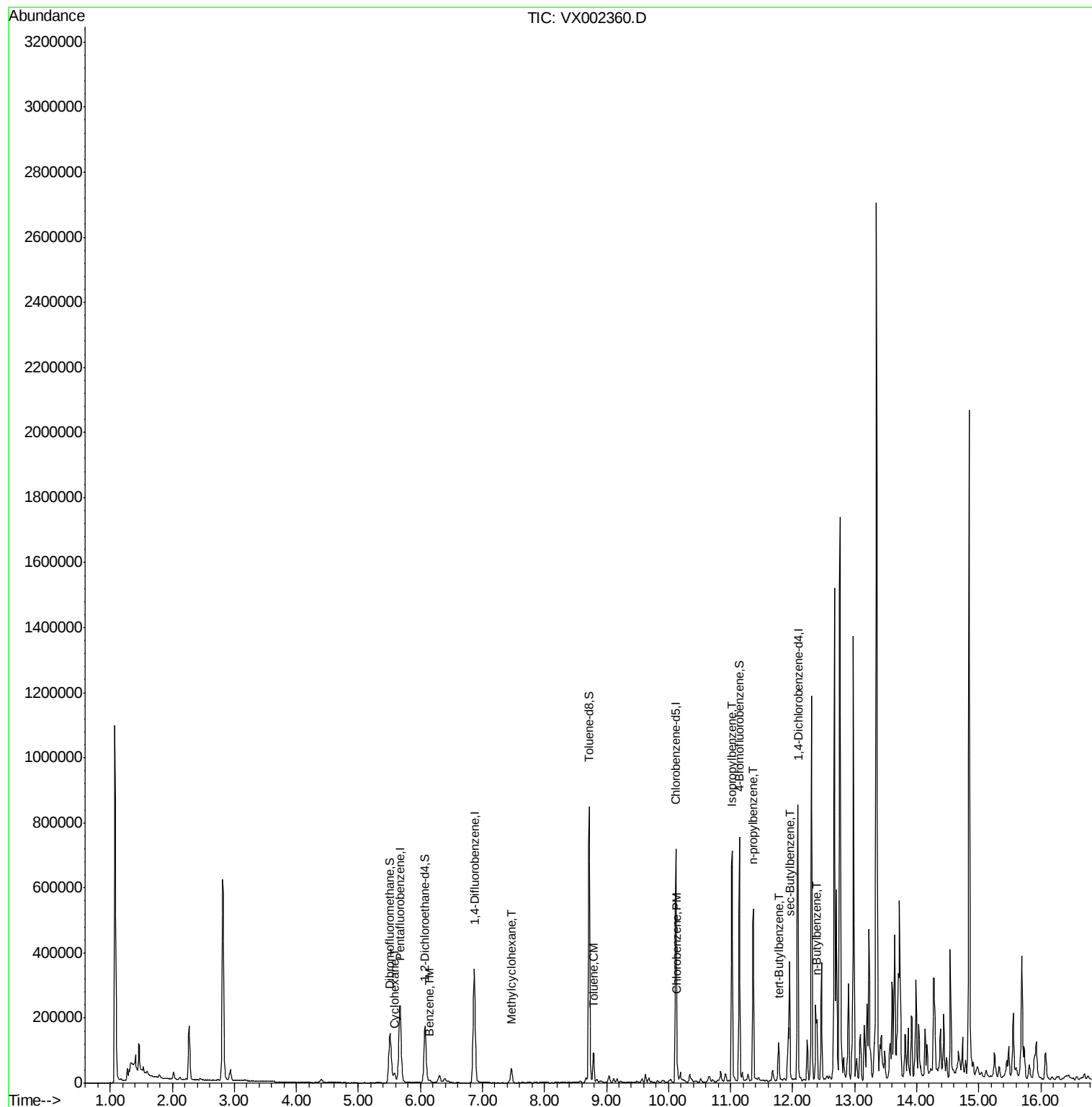
| Target Compounds      | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|-----------------------|-------|------|----------|-------|--------|--------|
| 31) Cyclohexane       | 5.58  | 56   | 18923    | 4.48  | ug/l   | 92     |
| 39) Methylcyclohexane | 7.46  | 83   | 16928    | 4.03  | ug/l   | 99     |
| 40) Benzene           | 6.15  | 78   | 6629     | 0.60  | ug/l   | 96     |
| 52) Toluene           | 8.79  | 92   | 32443    | 4.60  | ug/l   | 98     |
| 65) Chlorobenzene     | 10.14 | 112  | 12653    | 1.64  | ug/l   | 100    |
| 73) Isopropylbenzene  | 11.02 | 105  | 366192   | 29.38 | ug/l   | 100    |
| 78) n-propylbenzene   | 11.37 | 91   | 316815   | 22.87 | ug/l   | 99     |
| 83) tert-Butylbenzene | 11.77 | 119  | 40142    | 3.86  | ug/l   | 93     |
| 85) sec-Butylbenzene  | 11.95 | 105  | 180008   | 14.75 | ug/l # | 78     |
| 89) n-Butylbenzene    | 12.39 | 91   | 84687    | 9.08  | ug/l # | 78     |

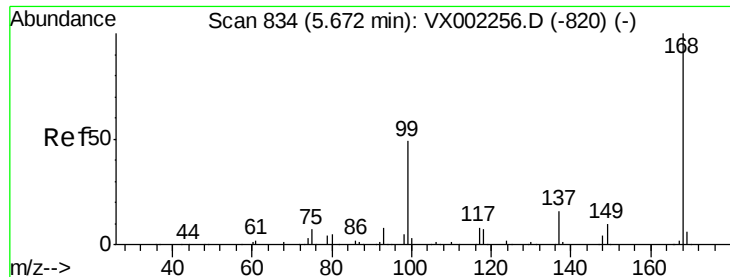
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X060418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 05 03:22:35 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002360.D

Acq: 06 Jun 2018 18:36

Instrument :

MSVOA\_X

ClientSampled :

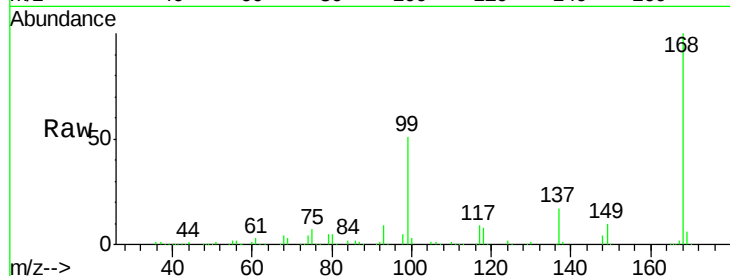
W-16

Tot Ion:168 Resp: 234100

Ion Ratio Lower Upper

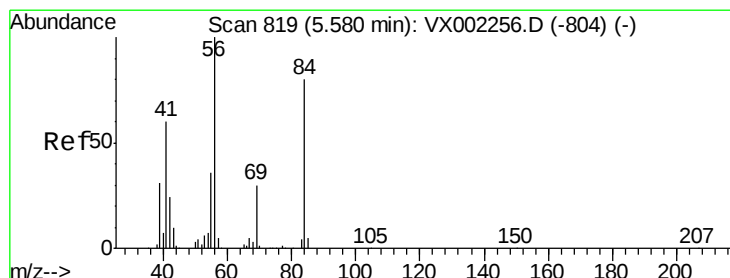
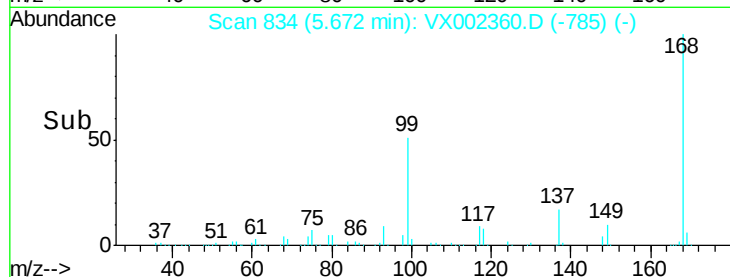
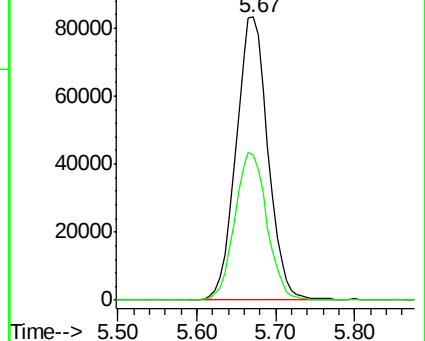
168 100

99 51.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#31

Cyclohexane

Concen: 4.48 ug/l

RT: 5.58 min Scan# 819

Delta R.T. -0.00 min

Lab File: VX002360.D

Acq: 06 Jun 2018 18:36

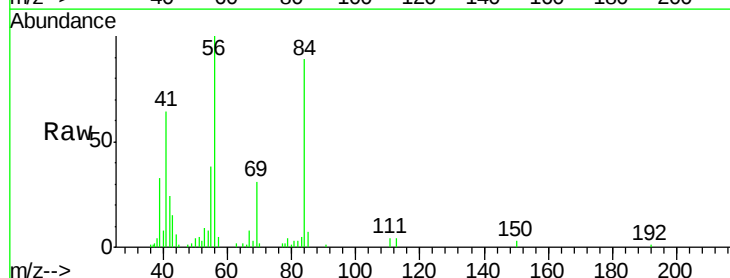
Tgt Ion: 56 Resp: 18923

Ion Ratio Lower Upper

56 100

69 31.3 23.7 35.5

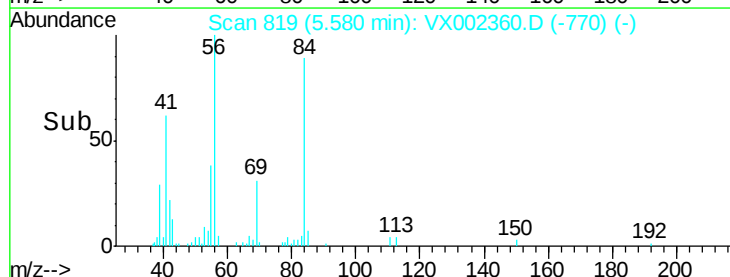
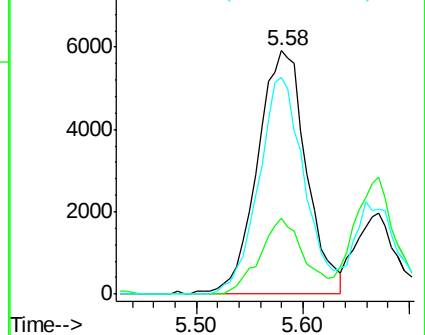
84 89.1 64.1 96.1

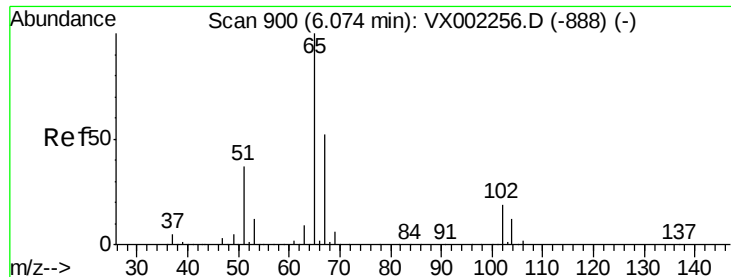


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

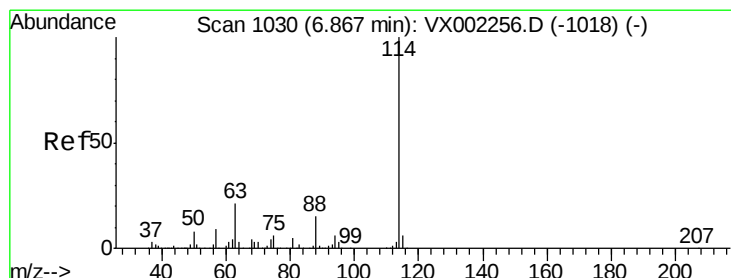
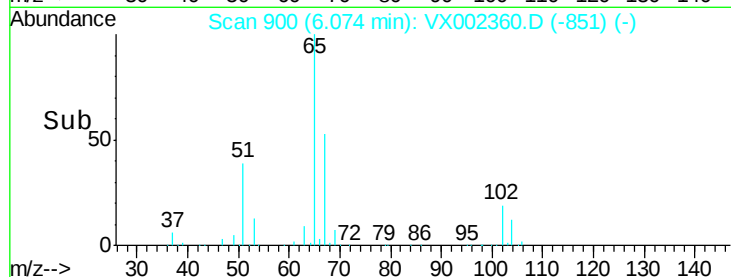
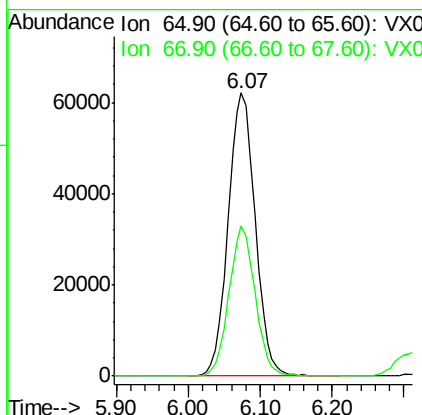
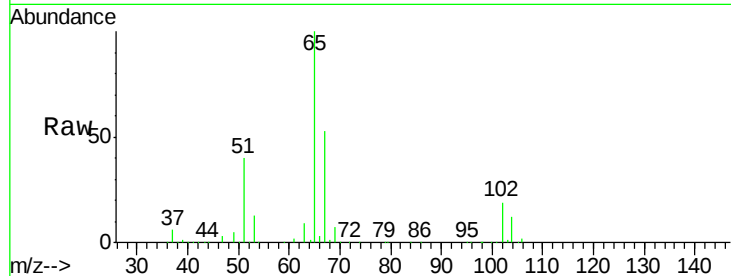




#33  
 1,2-Dichloroethane-d4  
 Concen: 48.49 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. -0.00 min  
 Lab File: VX002360.D  
 Acq: 06 Jun 2018 18:36

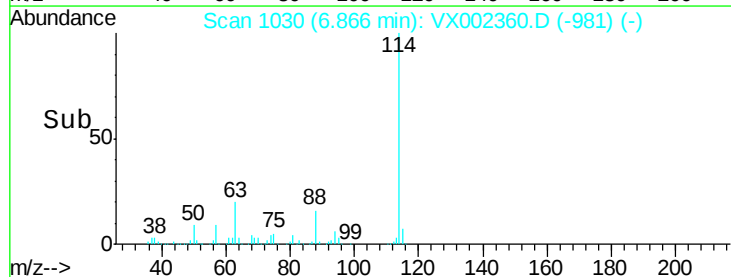
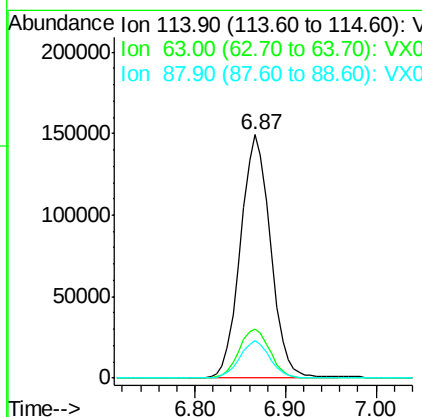
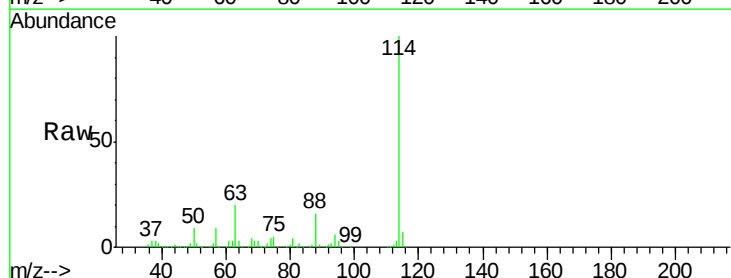
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 W-16

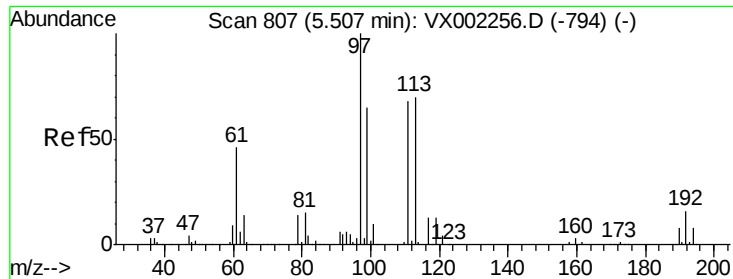
Tot Ion: 65 Resp: 162691  
 Ion Ratio Lower Upper  
 65 100  
 67 51.4 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. -0.00 min  
 Lab File: VX002360.D  
 Acq: 06 Jun 2018 18:36

Tgt Ion: 114 Resp: 344327  
 Ion Ratio Lower Upper  
 114 100  
 63 20.0 0.0 41.4  
 88 15.6 0.0 30.0





#35

Dibromofluoromethane

Concen: 44.86 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002360.D

Acq: 06 Jun 2018 18:36

Instrument :

MSVOA\_X

ClientSampleId :

W-16

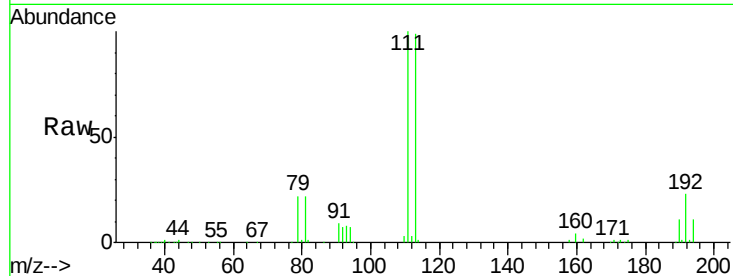
Tot Ion:113 Resp: 121466

Ion Ratio Lower Upper

113 100

111 103.5 81.4 122.0

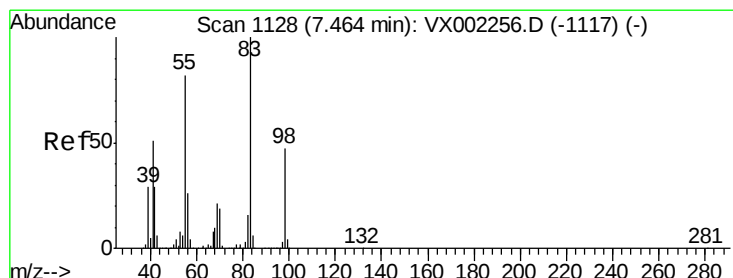
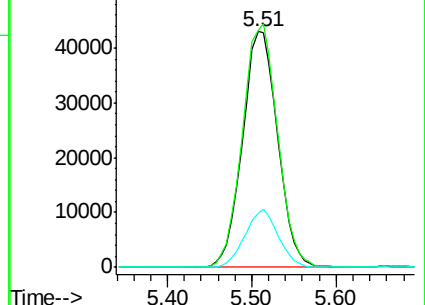
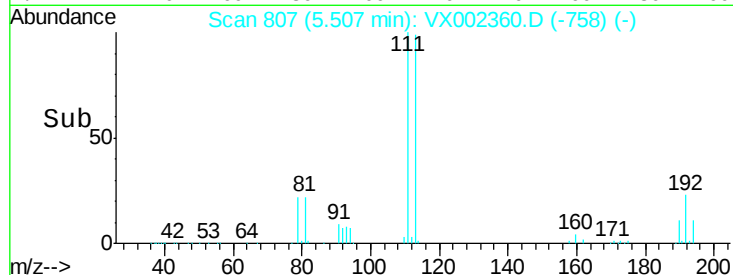
192 23.2 19.1 28.7



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



#39

Methylcyclohexane

Concen: 4.03 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VX002360.D

Acq: 06 Jun 2018 18:36

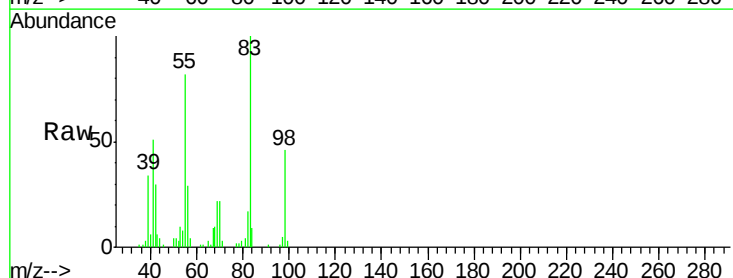
Tgt Ion: 83 Resp: 16928

Ion Ratio Lower Upper

83 100

55 81.6 65.4 98.0

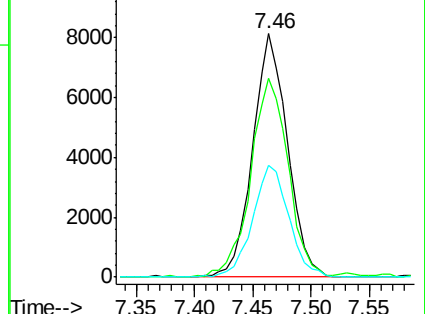
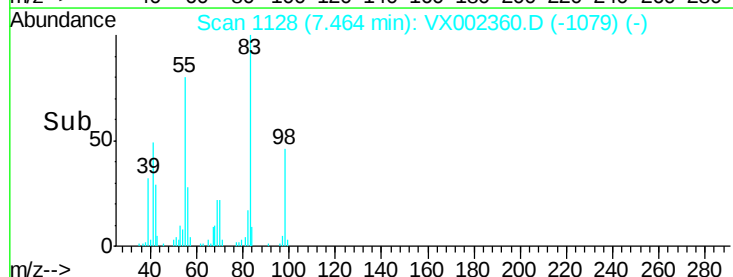
98 45.7 37.4 56.0

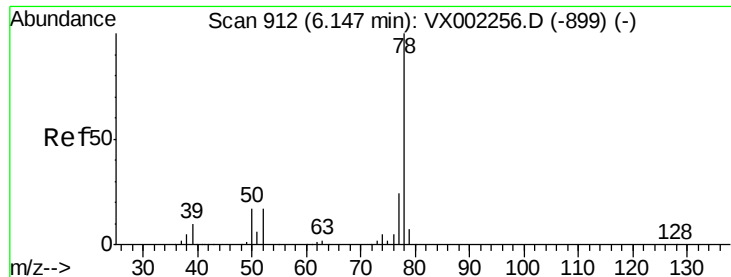


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

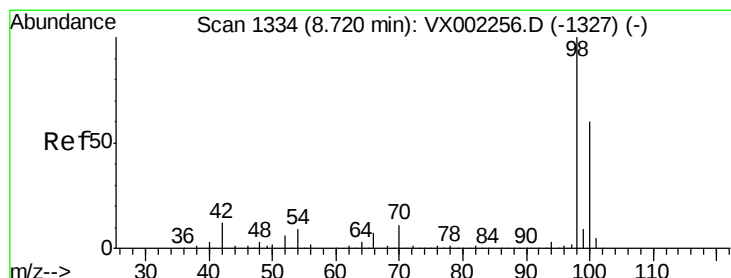
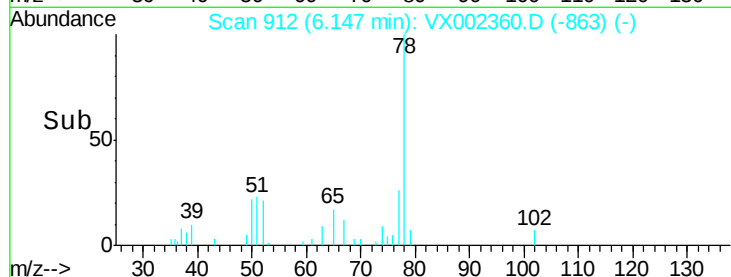
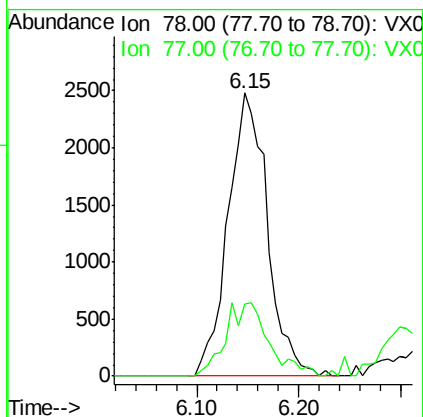
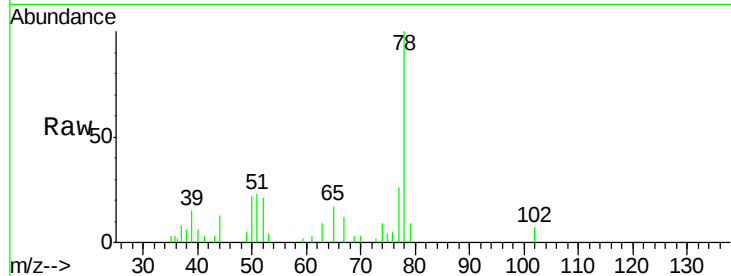




#40  
Benzene  
Concen: 0.60 ug/l  
RT: 6.15 min Scan# 912  
Delta R.T. -0.00 min  
Lab File: VX002360.D  
Acq: 06 Jun 2018 18:36

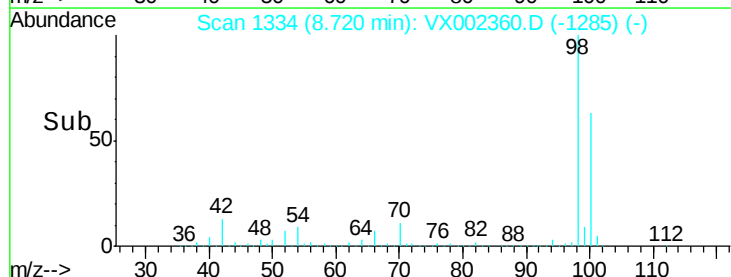
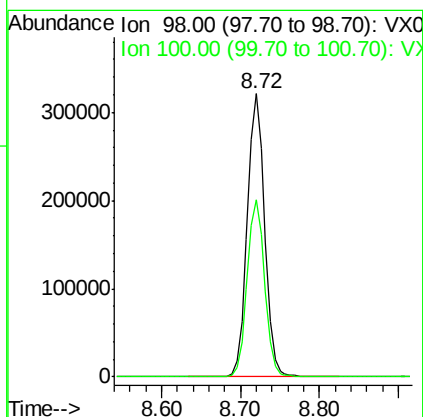
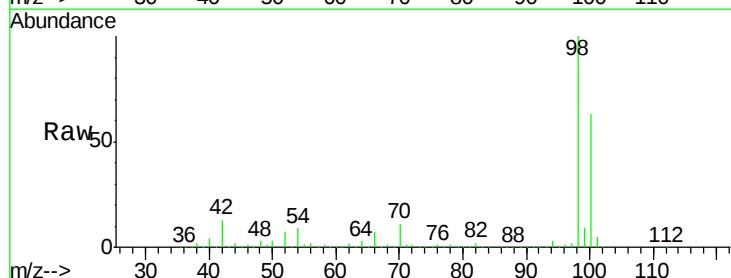
Instrument :  
MSVOA\_X  
ClientSampled :  
W-16

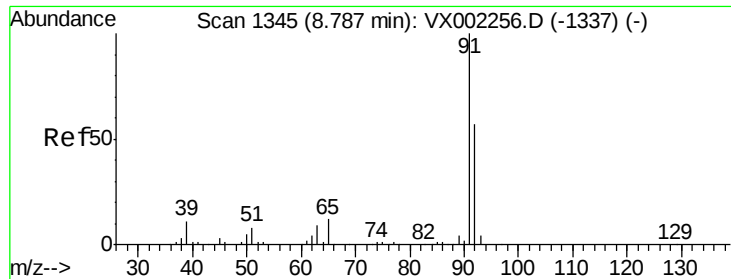
Tot Ion: 78 Resp: 6629  
Ion Ratio Lower Upper  
78 100  
77 25.7 19.1 28.7



#50  
Toluene-d8  
Concen: 47.38 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VX002360.D  
Acq: 06 Jun 2018 18:36

Tgt Ion: 98 Resp: 491757  
Ion Ratio Lower Upper  
98 100  
100 62.9 50.9 76.3





#52

Toluene

Concen: 4.60 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX002360.D

Acq: 06 Jun 2018 18:36

Instrument :

MSVOA\_X

ClientSampleId :

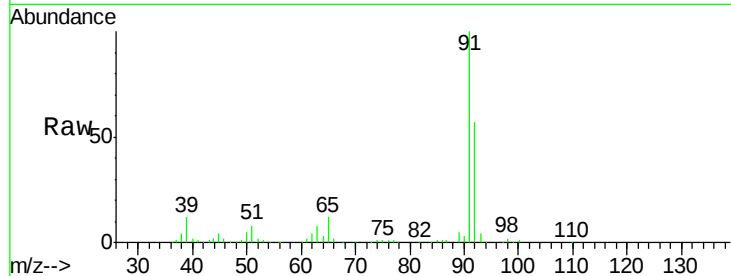
W-16

Tot Ion: 92 Resp: 32443

Ion Ratio Lower Upper

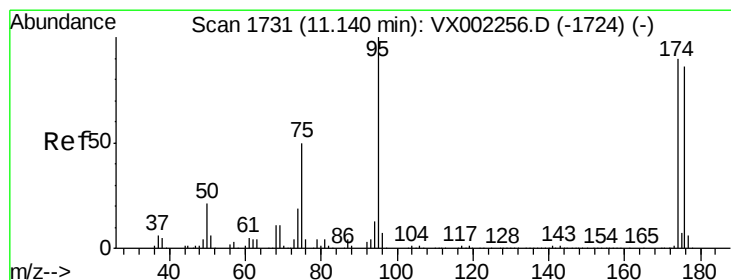
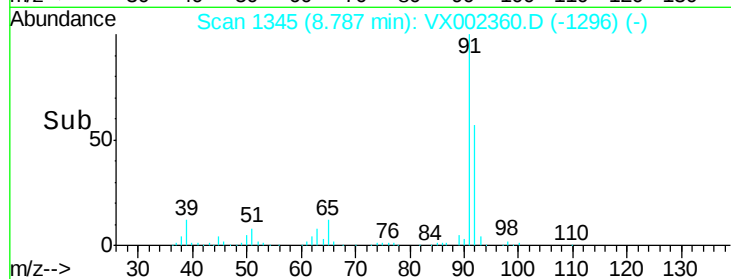
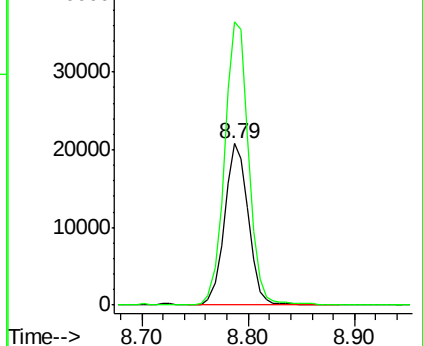
92 100

91 177.7 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 42.99 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002360.D

Acq: 06 Jun 2018 18:36

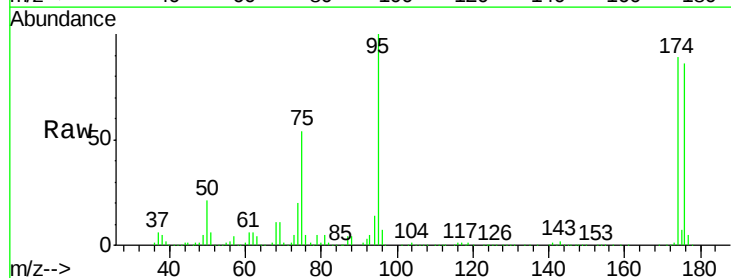
Tgt Ion: 95 Resp: 172048

Ion Ratio Lower Upper

95 100

174 93.8 0.0 187.4

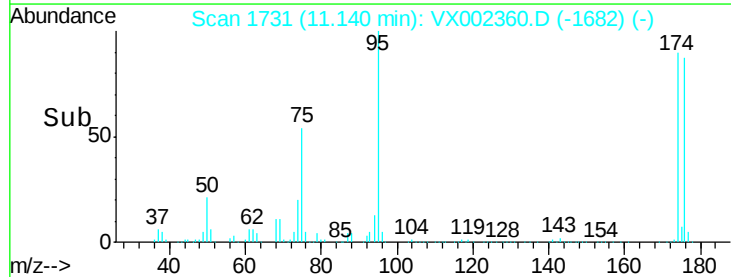
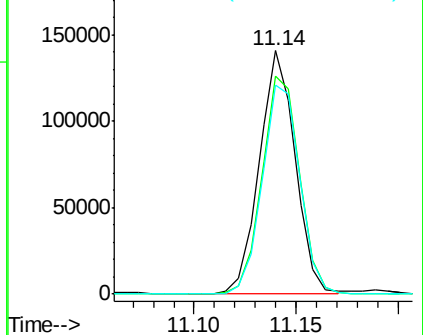
176 90.5 0.0 181.0

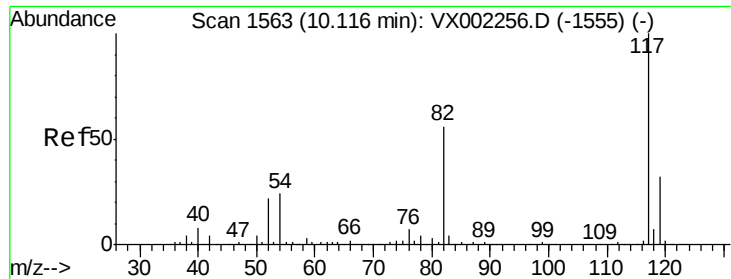


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

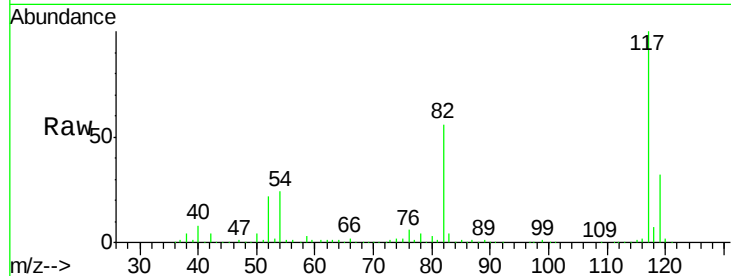




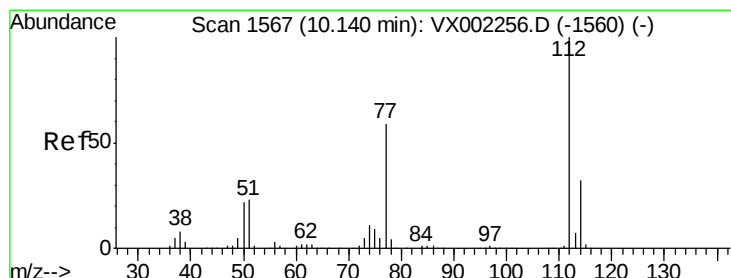
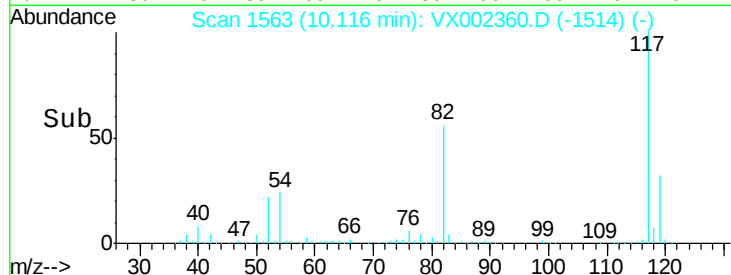
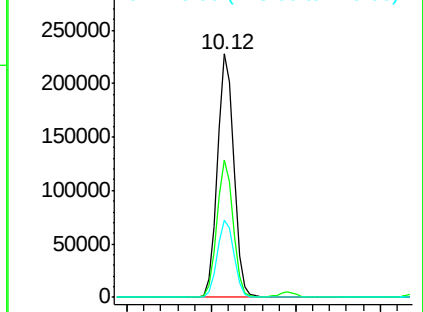
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX002360.D  
Acq: 06 Jun 2018 18:36

Instrument :  
MSVOA\_X  
ClientSampleId :  
W-16

Tot Ion:117 Resp: 309795  
Ion Ratio Lower Upper  
117 100  
82 56.3 45.0 67.4  
119 31.9 25.8 38.6

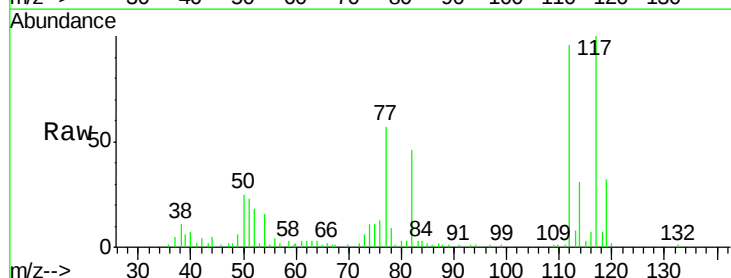


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

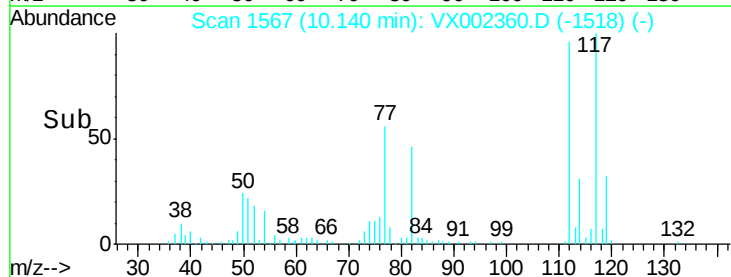
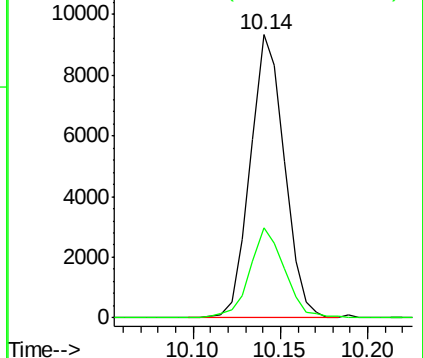


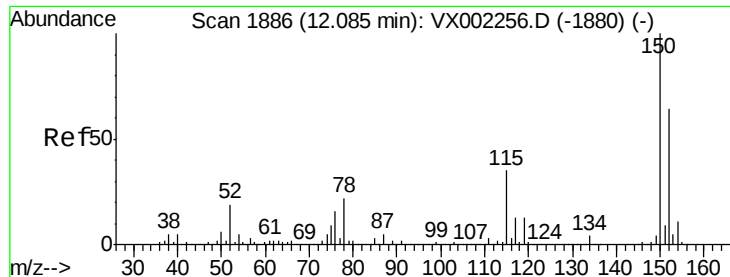
#65  
Chlorobenzene  
Concen: 1.64 ug/l  
RT: 10.14 min Scan# 1567  
Delta R.T. -0.00 min  
Lab File: VX002360.D  
Acq: 06 Jun 2018 18:36

Tgt Ion:112 Resp: 12653  
Ion Ratio Lower Upper  
112 100  
114 31.8 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V  
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002360.D

Acq: 06 Jun 2018 18:36

Instrument :

MSVOA\_X

ClientSampleId :

W-16

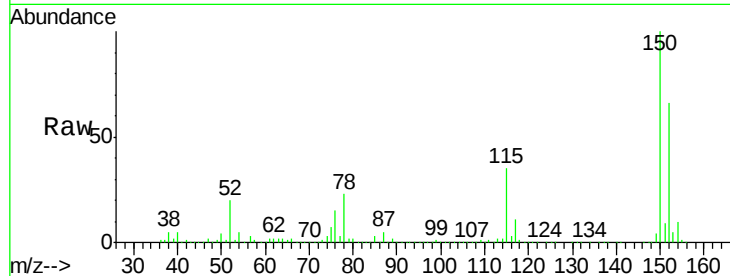
Tot Ion:152 Resp: 179145

Ion Ratio Lower Upper

152 100

115 55.6 40.1 120.2

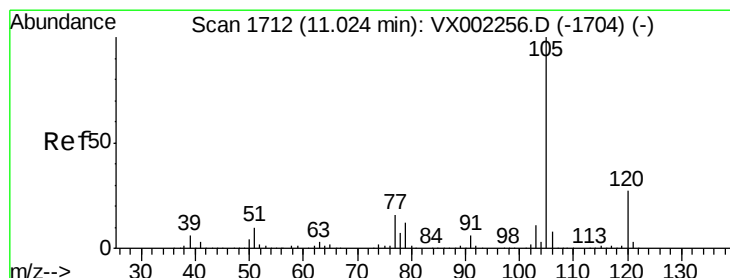
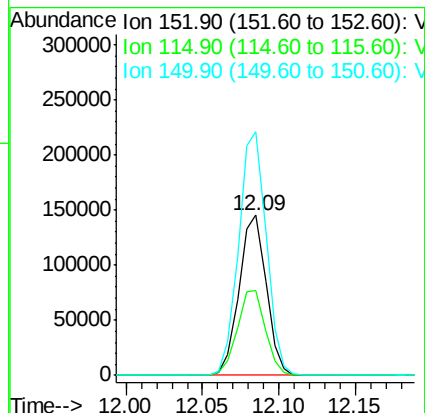
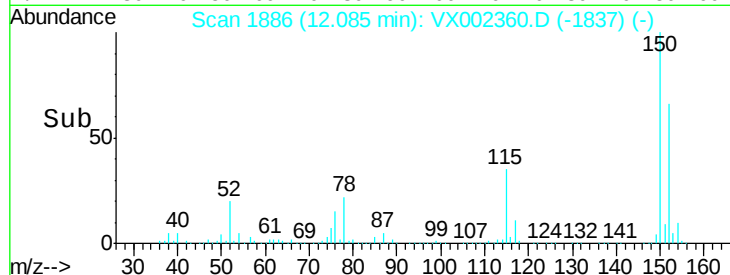
150 154.8 0.0 347.2



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



#73

Isopropylbenzene

Concen: 29.38 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. -0.00 min

Lab File: VX002360.D

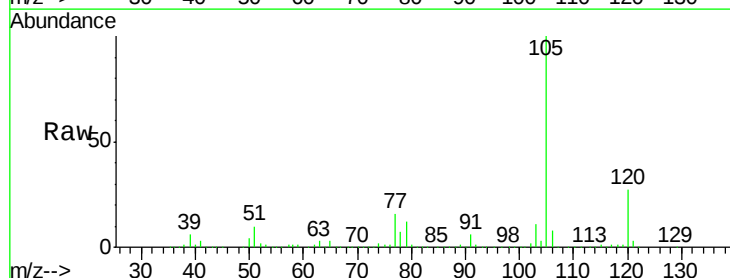
Acq: 06 Jun 2018 18:36

Tgt Ion:105 Resp: 366192

Ion Ratio Lower Upper

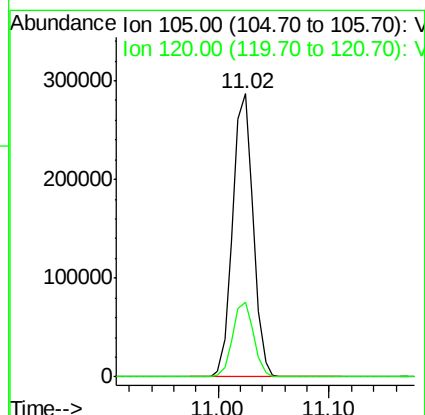
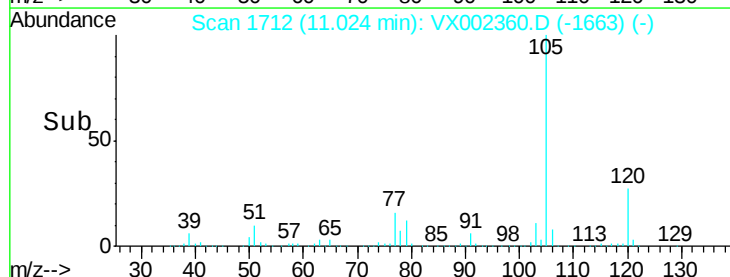
105 100

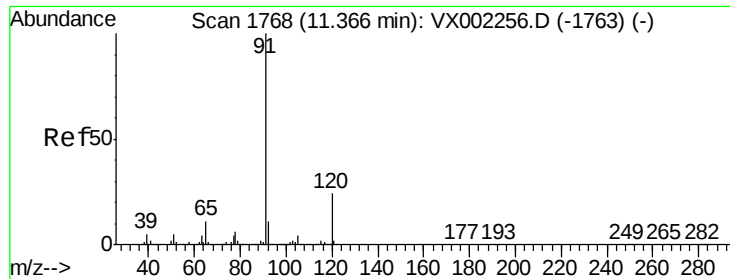
120 26.7 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

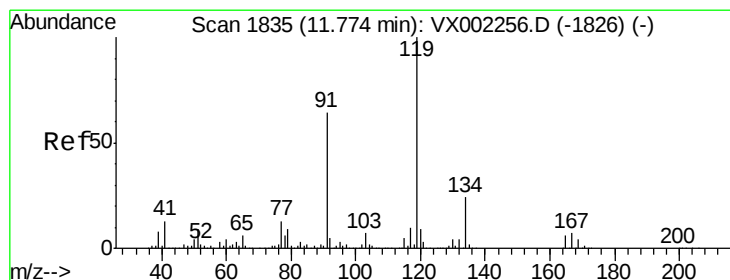
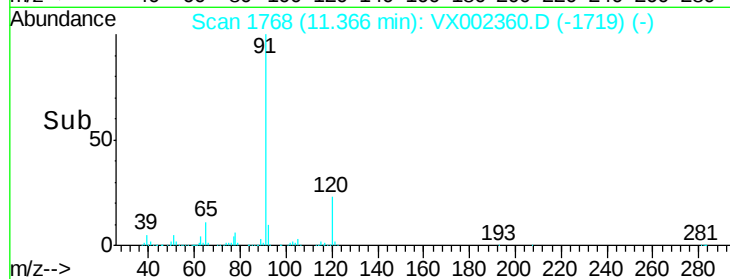
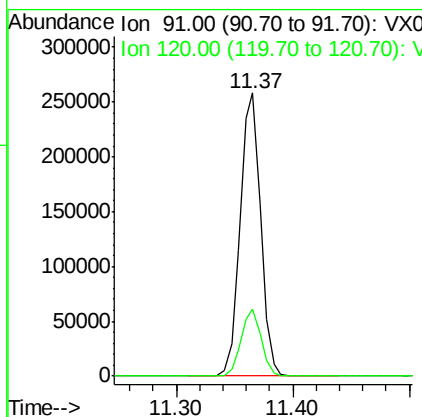
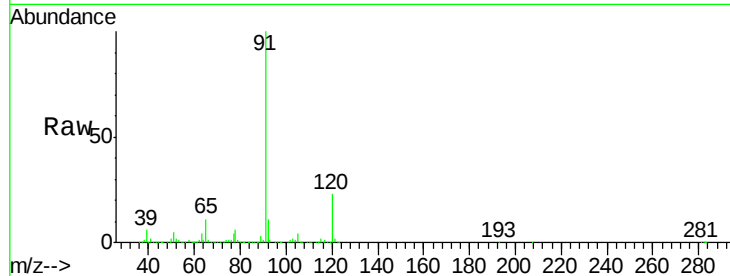




#78  
n-propylbenzene  
Concen: 22.87 ug/l  
RT: 11.37 min Scan# 1768  
Delta R.T. -0.00 min  
Lab File: VX002360.D  
Acq: 06 Jun 2018 18:36

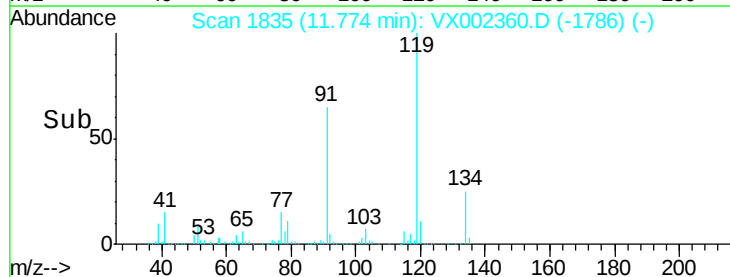
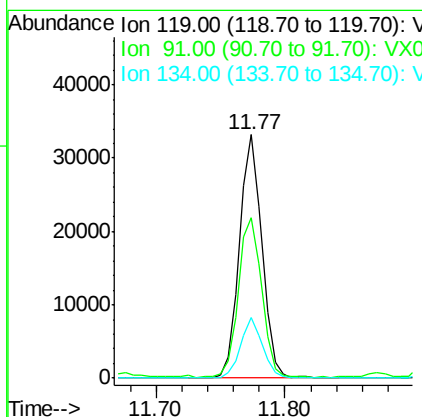
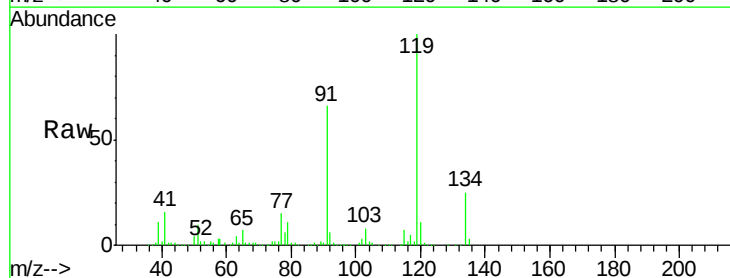
Instrument :  
MSVOA\_X  
ClientSampled :  
W-16

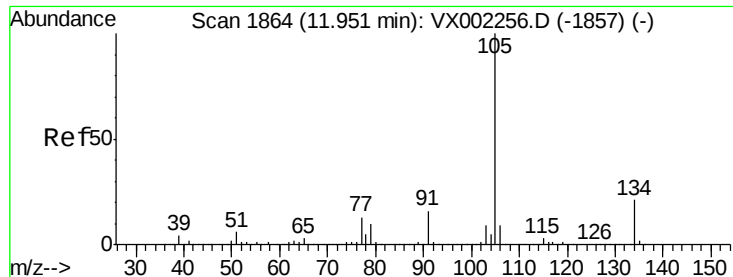
Tot Ion: 91 Resp: 316815  
Ion Ratio Lower Upper  
91 100  
120 23.3 11.8 35.4



#83  
tert-Butylbenzene  
Concen: 3.86 ug/l  
RT: 11.77 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX002360.D  
Acq: 06 Jun 2018 18:36

Tgt Ion: 119 Resp: 40142  
Ion Ratio Lower Upper  
119 100  
91 68.0 30.3 90.9  
134 24.1 11.7 35.1

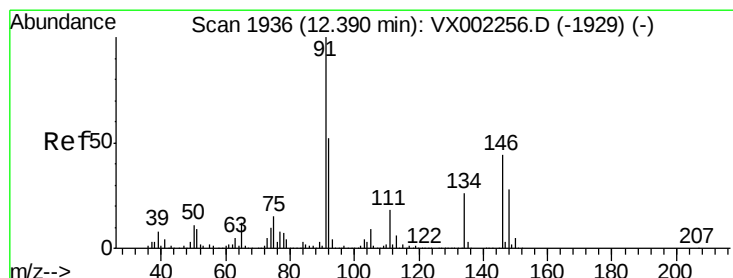
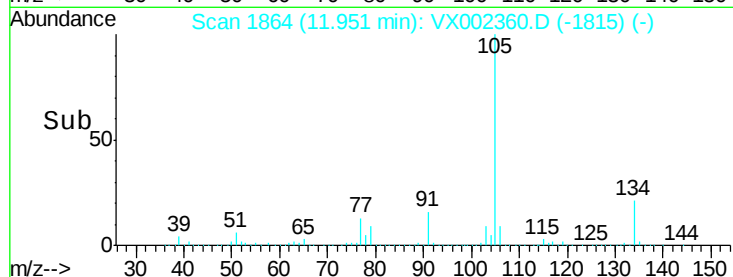
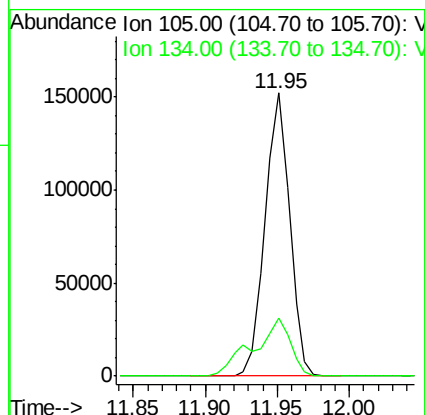
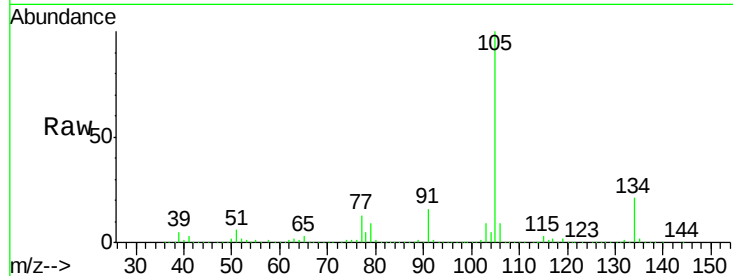




#85  
 sec-Butylbenzene  
 Concen: 14.75 ug/l  
 RT: 11.95 min Scan# 1864  
 Delta R.T. -0.00 min  
 Lab File: VX002360.D  
 Acq: 06 Jun 2018 18:36

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 W-16

Tot Ion:105 Resp: 180008  
 Ion Ratio Lower Upper  
 105 100  
 134 31.1 10.4 31.1#



#89  
 n-Butylbenzene  
 Concen: 9.08 ug/l  
 RT: 12.39 min Scan# 1936  
 Delta R.T. -0.00 min  
 Lab File: VX002360.D  
 Acq: 06 Jun 2018 18:36

Tgt Ion: 91 Resp: 84687  
 Ion Ratio Lower Upper  
 91 100  
 92 43.7 26.0 78.0  
 134 47.9 13.5 40.5#

