

Data File : VU032788.D  
Acq On : 17 Jun 2019 17:27  
Operator : JC/SP  
Sample : K3363-07ME  
Misc : 3.26g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JX0ME

Quant Time: Jun 18 02:43:53 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jun 18 02:39:23 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.87  | 114  | 243592   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 235570   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 131063   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 61278    | 36.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 73.62% |
| 7) Chloroethane-d5             | 1.69    | 69    | 162      | 0.12     | ug/L | 0.02   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 0.24%# |
| 11) 1,1-Dichloroethene-d2      | 2.29    | 63    | 125      | 0.04     | ug/L | 0.02   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 0.08%# |
| 21) 2-Butanone-d5              | 4.19    | 46    | 114948   | 82.96    | ug/L | 0.02   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 82.96% |
| 24) Chloroform-d               | 4.64    | 84    | 128042   | 39.56    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 79.12% |
| 26) 1,2-Dichloroethane-d4      | 5.30    | 65    | 89195    | 41.38    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 82.76% |
| 32) Benzene-d6                 | 5.32    | 84    | 254796   | 41.49    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 82.98% |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 82068    | 41.95    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 83.90% |
| 41) Toluene-d8                 | 7.56    | 98    | 237800   | 41.35    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 82.70% |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 41766    | 41.04    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 82.08% |
| 47) 2-Hexanone-d5              | 8.32    | 63    | 79912    | 87.49    | ug/L | 0.01   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 87.49% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 125596   | 41.53    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 83.06% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 105448   | 41.58    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 83.16% |

#### Target Compounds

|                               |       |     |         |               | Qvalue |
|-------------------------------|-------|-----|---------|---------------|--------|
| 12) 1,1-Dichloroethene        | 2.23  | 96  | 3231    | 2.106 ug/L #  | 1      |
| 15) Methyl Acetate            | 2.63  | 43  | 7548    | 3.479 ug/L    | 94     |
| 17) trans-1,2-Dichloroethene  | 2.96  | 96  | 49535   | 29.778 ug/L   | 99     |
| 20) cis-1,2-Dichloroethene    | 4.21  | 96  | 1663895 | 918.179 ug/L  | 97     |
| 27) 1,2-Dichloroethane        | 5.33  | 62  | 1666    | 0.620 ug/L #  | 77     |
| 33) Benzene                   | 5.38  | 78  | 6160    | 0.908 ug/L    | 100    |
| 34) Trichloroethene           | 6.18  | 95  | 3356893 | 1851.396 ug/L | 97     |
| 35) Methylcyclohexane         | 6.40  | 83  | 1914    | 0.683 ug/L    | 93     |
| 39) cis-1,3-Dichloropropene   | 7.22  | 75  | 3027    | 1.044 ug/L #  | 79     |
| 42) Toluene                   | 7.63  | 91  | 145306  | 19.790 ug/L   | 98     |
| 44) trans-1,3-Dichloropropene | 7.85  | 75  | 2281    | 0.837 ug/L    | 89     |
| 46) Tetrachloroethene         | 8.22  | 164 | 952     | 0.641 ug/L    | 91     |
| 48) 2-Hexanone                | 8.32  | 43  | 10625   | 4.052 ug/L #  | 66     |
| 52) Ethylbenzene              | 9.25  | 91  | 12246   | 1.507 ug/L    | 97     |
| 53) m,p-Xylene                | 9.37  | 106 | 12039   | 3.926 ug/L    | 97     |
| 54) o-xylene                  | 9.78  | 106 | 5244    | 1.751 ug/L    | 98     |
| 59) 1,2,3-Trichloropropane    | 11.48 | 75  | 15995   | 6.439 ug/L    | 89     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU061719\  
Quantitation Report (Not Reviewed)

Data File : VU032788.D  
Acq On : 17 Jun 2019 17:27  
Operator : JC/SP  
Sample : K3363-07ME  
Misc : 3.26g/5mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JX0ME

Quant Time: Jun 18 02:43:53 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jun 18 02:39:23 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

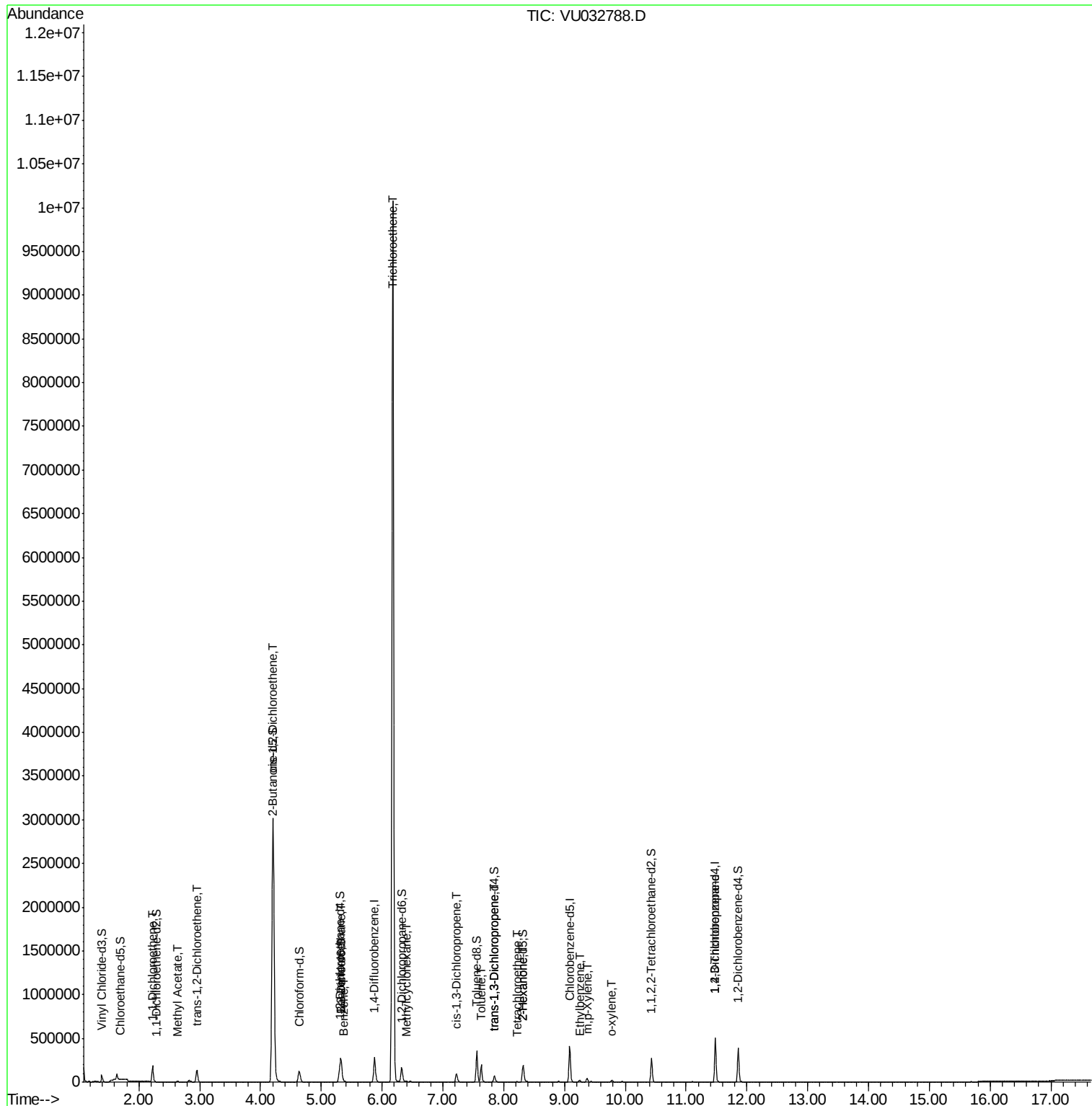
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|-------|--|--|--|--|--|--|
| ----- |  |  |  |  |  |  |
| ----- |  |  |  |  |  |  |

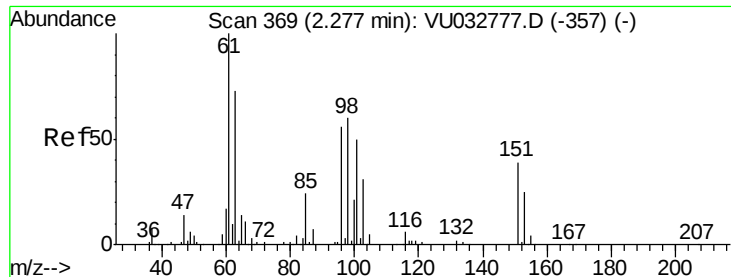
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VU032788.D  
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM061719WMA.M  
Quant Title : VOC Analysis  
QLast Update : Tue Jun 18 02:39:23 2019  
Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 2.106 ug/L

RT: 2.23 min Scan# 356

Delta R.T. -0.04 min

Lab File: VU032788.D

Acq: 17 Jun 2019 17:27

Instrument :

MSVOA\_U

ClientSampleId :

C0JX0ME

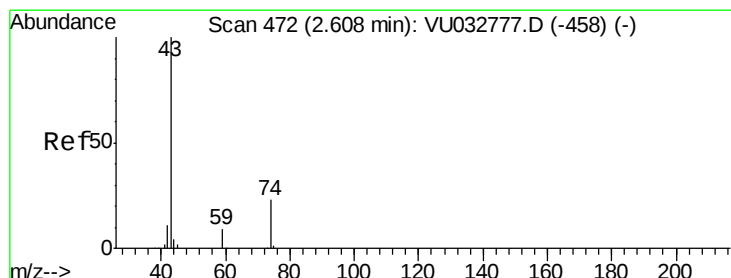
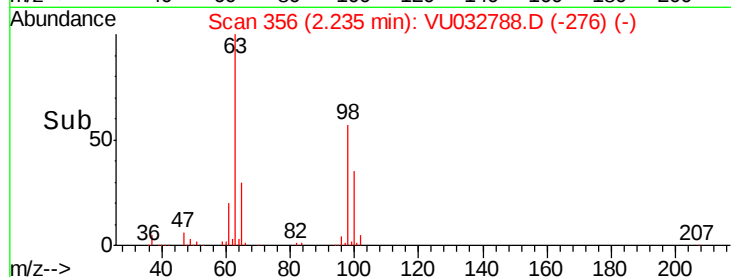
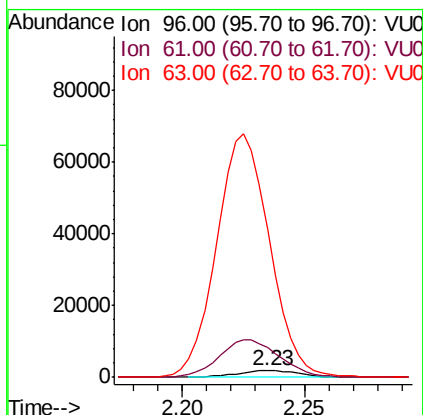
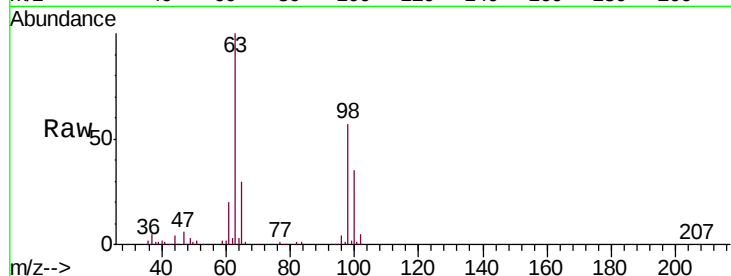
Tgt Ion: 96 Resp: 3231

Ion Ratio Lower Upper

96 100

61 455.1 131.0 243.4#

63 2283.8 101.0 187.6#



#15

Methyl Acetate

Concen: 3.479 ug/L

RT: 2.63 min Scan# 479

Delta R.T. 0.02 min

Lab File: VU032788.D

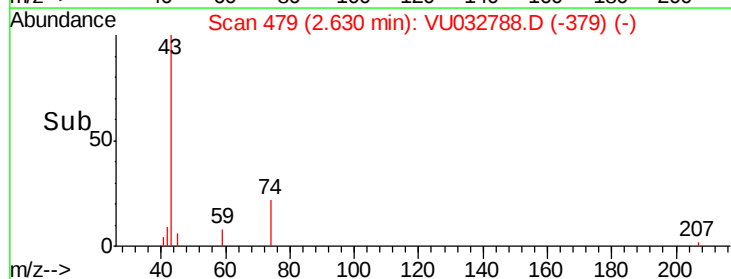
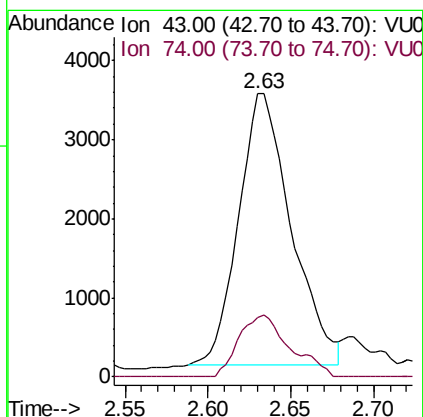
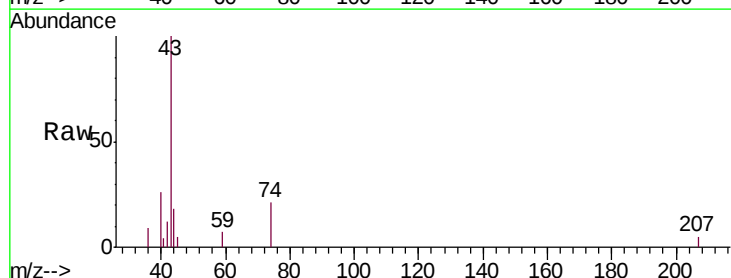
Acq: 17 Jun 2019 17:27

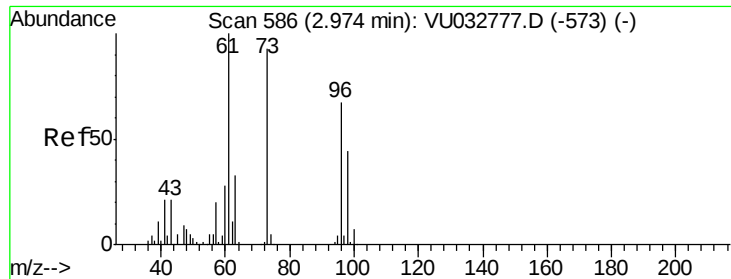
Tgt Ion: 43 Resp: 7548

Ion Ratio Lower Upper

43 100

74 19.7 18.1 27.1

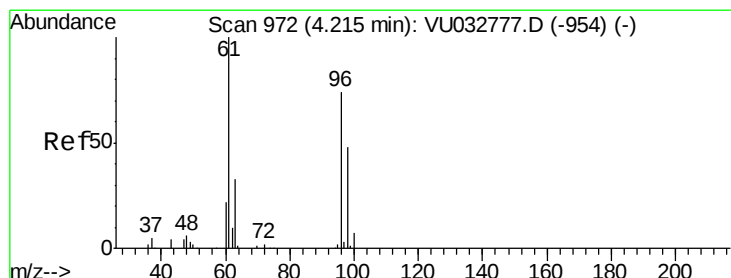
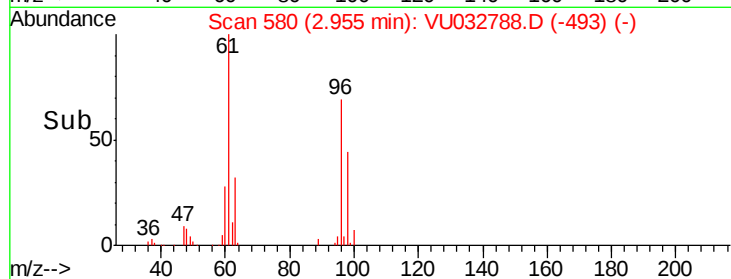
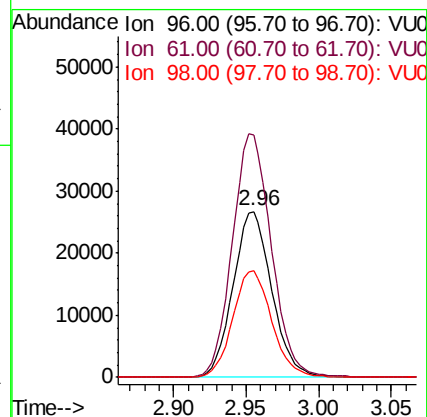
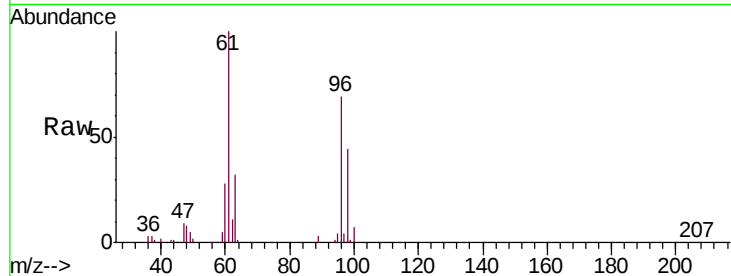




#17  
 trans-1,2-Dichloroethene  
 Concen: 29.778 ug/L  
 RT: 2.96 min Scan# 580  
 Delta R.T. -0.02 min  
 Lab File: VU032788.D  
 Acq: 17 Jun 2019 17:27

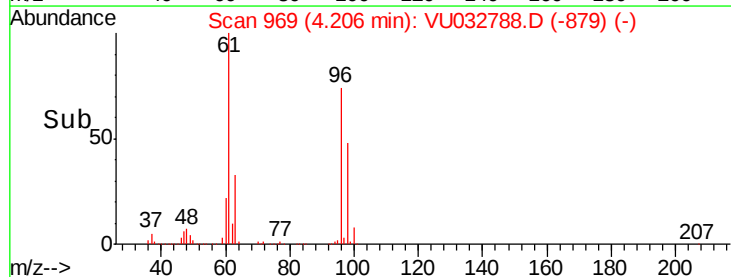
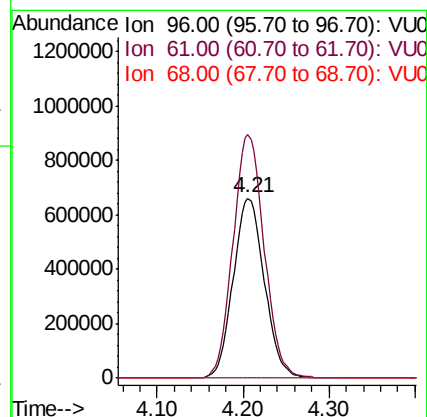
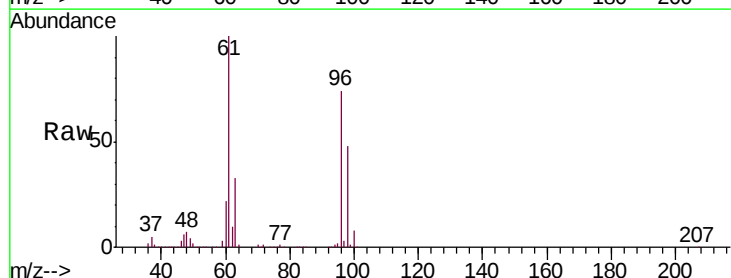
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 C0JX0ME

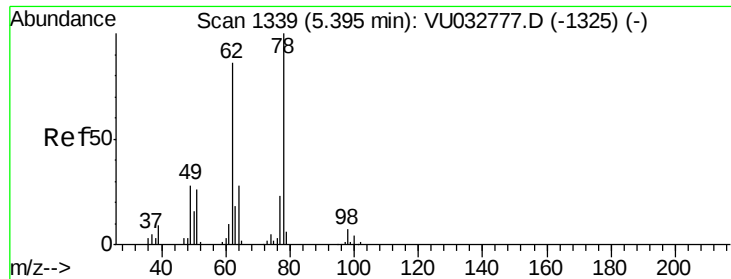
Tgt Ion: 96 Resp: 49535  
 Ion Ratio Lower Upper  
 96 100  
 61 145.7 100.9 187.5  
 98 63.9 44.0 81.8



#20  
 cis-1,2-Dichloroethene  
 Concen: 918.179 ug/L  
 RT: 4.21 min Scan# 969  
 Delta R.T. -0.01 min  
 Lab File: VU032788.D  
 Acq: 17 Jun 2019 17:27

Tgt Ion: 96 Resp: 1663895  
 Ion Ratio Lower Upper  
 96 100  
 61 135.1 92.4 171.6  
 68 0.0 0.0 0.0

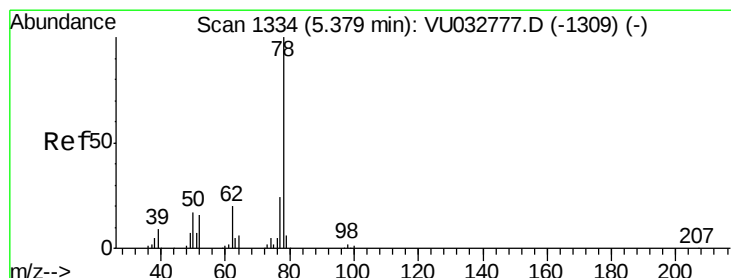
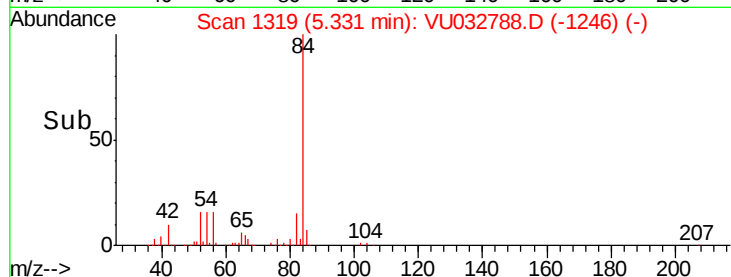
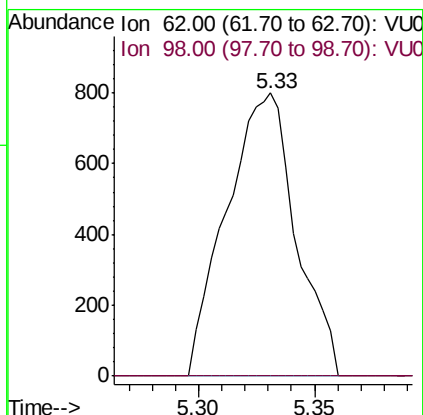
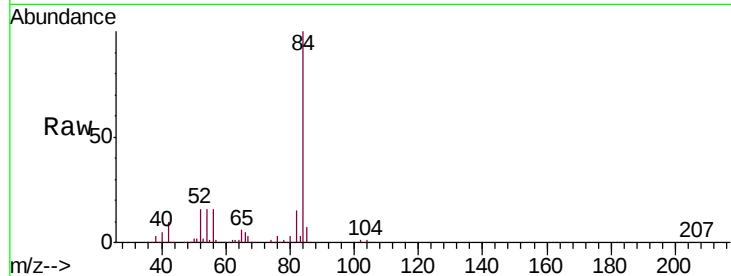




#27  
 1,2-Dichloroethane  
 Concen: 0.620 ug/L  
 RT: 5.33 min Scan# 1319  
 Delta R.T. -0.06 min  
 Lab File: VU032788.D  
 Acq: 17 Jun 2019 17:27

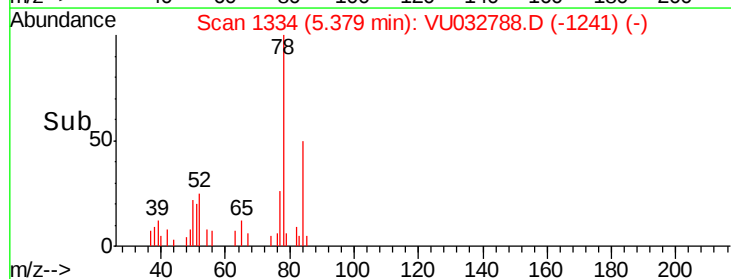
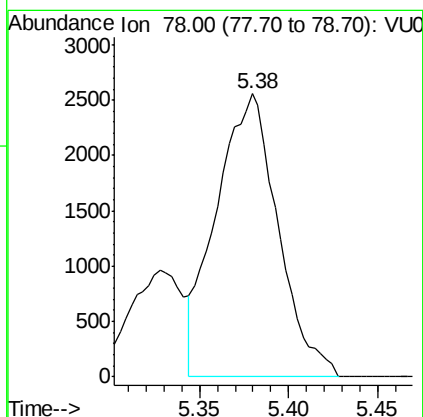
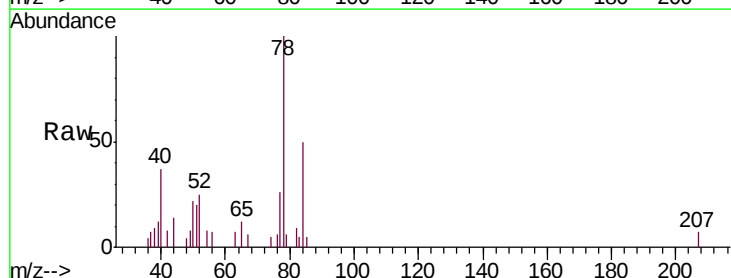
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JX0ME

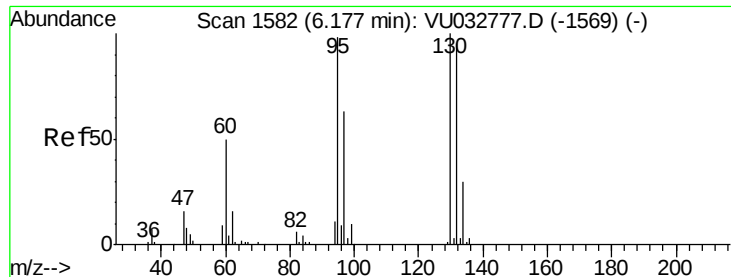
Tgt Ion: 62 Resp: 1666  
 Ion Ratio Lower Upper  
 62 100  
 98 0.0 6.6 10.0#



#33  
 Benzene  
 Concen: 0.908 ug/L  
 RT: 5.38 min Scan# 1334  
 Delta R.T. -0.00 min  
 Lab File: VU032788.D  
 Acq: 17 Jun 2019 17:27

Tgt Ion: 78 Resp: 6160

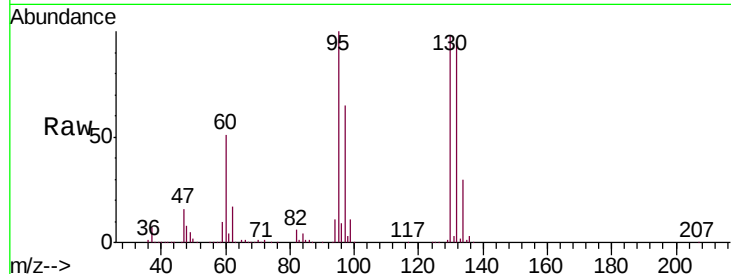




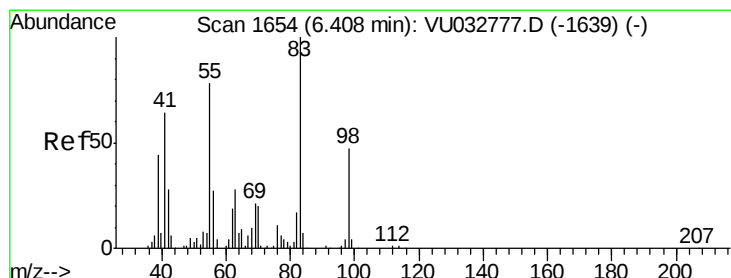
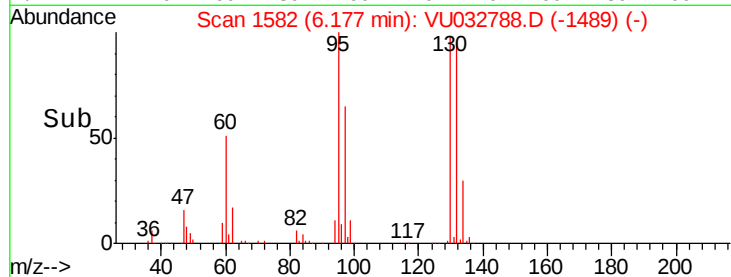
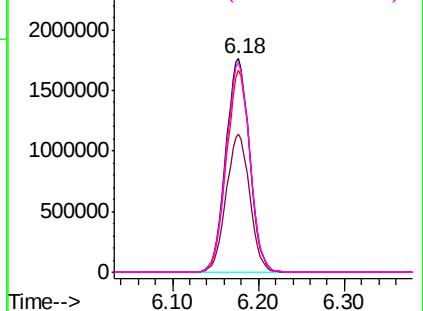
#34  
 Trichloroethene  
 Concen: 1851.396 ug/L  
 RT: 6.18 min Scan# 1582  
 Delta R.T. -0.00 min  
 Lab File: VU032788.D  
 Acq: 17 Jun 2019 17:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JX0ME

Tgt Ion: 95 Resp: 3356893  
 Ion Ratio Lower Upper  
 95 100  
 97 64.7 45.9 85.3  
 132 94.5 68.5 127.3  
 130 98.2 70.8 131.4

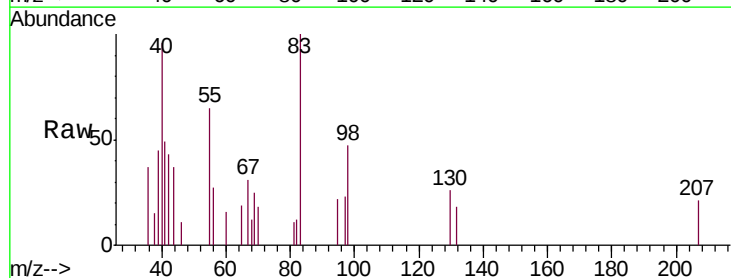


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 97.00 (96.70 to 97.70): VU0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

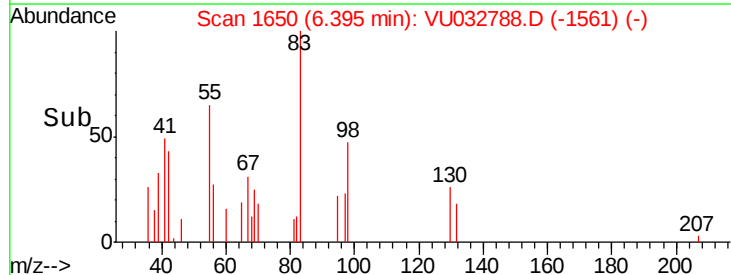
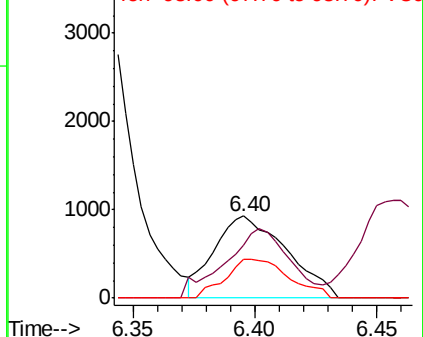


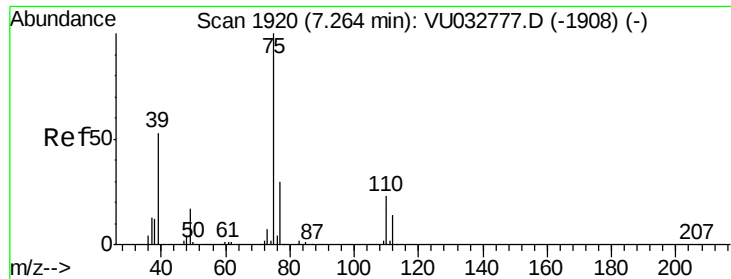
#35  
 Methylcyclohexane  
 Concen: 0.683 ug/L  
 RT: 6.40 min Scan# 1650  
 Delta R.T. -0.01 min  
 Lab File: VU032788.D  
 Acq: 17 Jun 2019 17:27

Tgt Ion: 83 Resp: 1914  
 Ion Ratio Lower Upper  
 83 100  
 55 71.8 62.6 94.0  
 98 41.7 37.4 56.0



Abundance Ion 83.00 (82.70 to 83.70): VU0  
 Ion 55.00 (54.70 to 55.70): VU0  
 Ion 98.00 (97.70 to 98.70): VU0

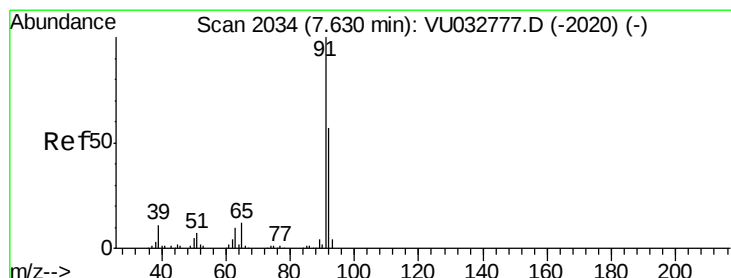
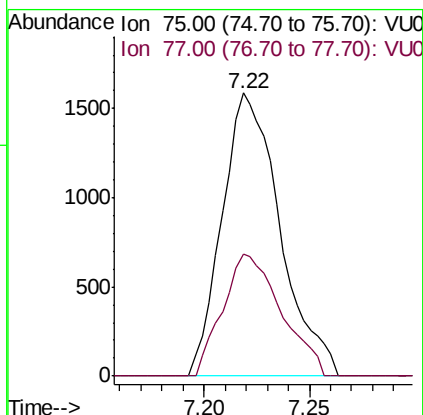
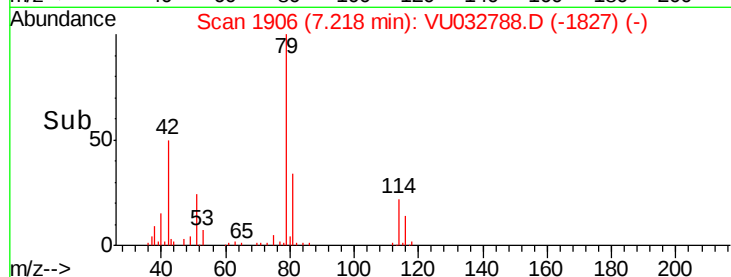
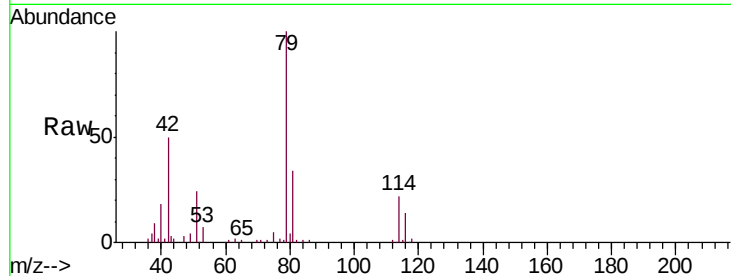




#39  
 cis-1,3-Dichloropropene  
 Concen: 1.044 ug/L  
 RT: 7.22 min Scan# 1906  
 Delta R.T. -0.05 min  
 Lab File: VU032788.D  
 Acq: 17 Jun 2019 17:27

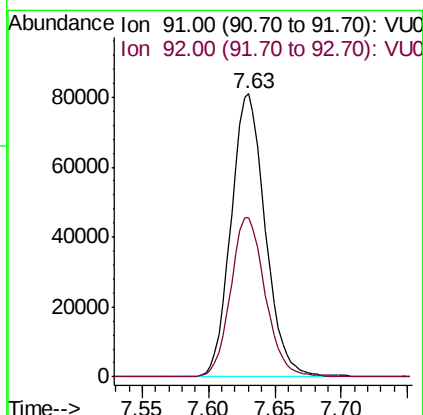
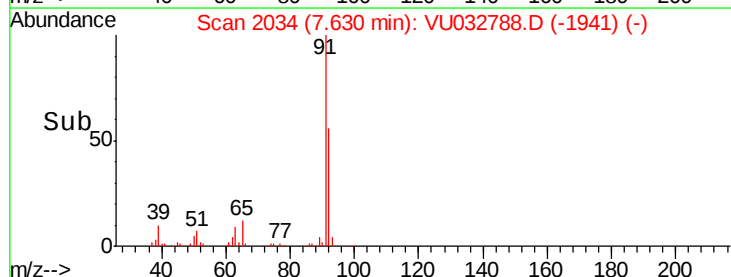
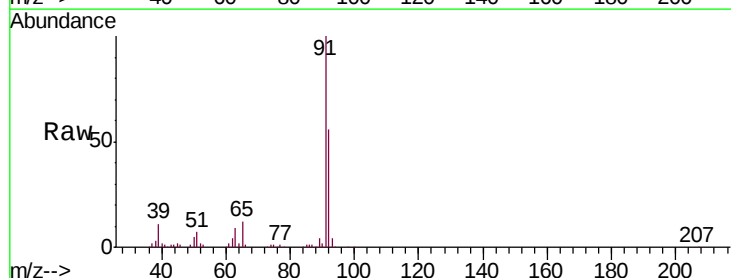
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JX0ME

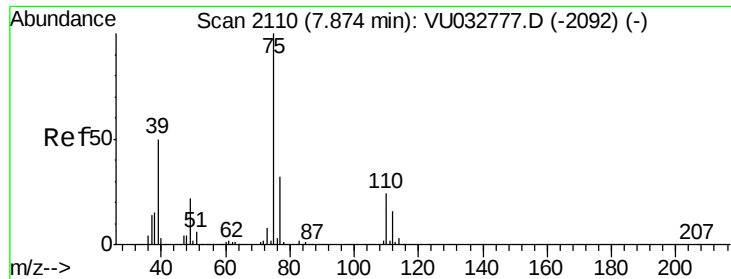
Tgt Ion: 75 Resp: 3027  
 Ion Ratio Lower Upper  
 75 100  
 77 43.1 21.9 40.7#



#42  
 Toluene  
 Concen: 19.790 ug/L  
 RT: 7.63 min Scan# 2034  
 Delta R.T. -0.00 min  
 Lab File: VU032788.D  
 Acq: 17 Jun 2019 17:27

Tgt Ion: 91 Resp: 145306  
 Ion Ratio Lower Upper  
 91 100  
 92 56.2 40.4 75.0





#44

trans-1,3-Dichloropropene

Concen: 0.837 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU032788.D

Acq: 17 Jun 2019 17:27

Instrument :

MSVOA\_U

ClientSampleId :

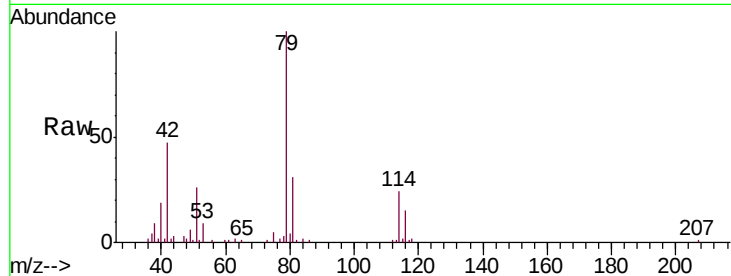
C0JX0ME

Tgt Ion: 75 Resp: 2281

Ion Ratio Lower Upper

75 100

77 36.9 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU032777.D (-2092) (-)

Ion 77.00 (76.70 to 77.70): VU032777.D (-2092) (-)

7.85

1000

800

600

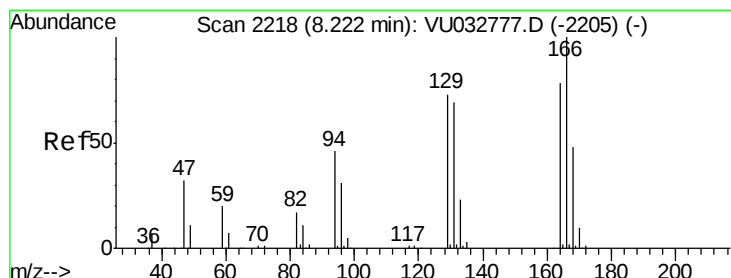
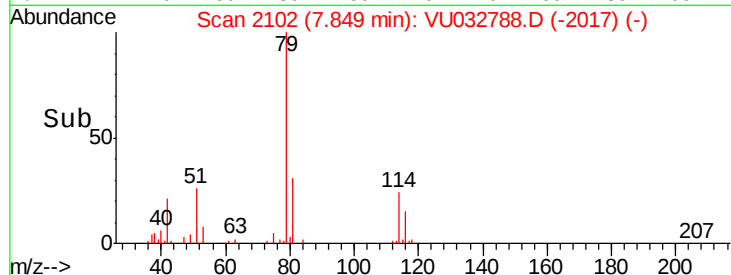
400

200

0

7.80 7.85 7.90

Time-->



#46

Tetrachloroethene

Concen: 0.641 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU032788.D

Acq: 17 Jun 2019 17:27

Tgt Ion: 164 Resp: 952

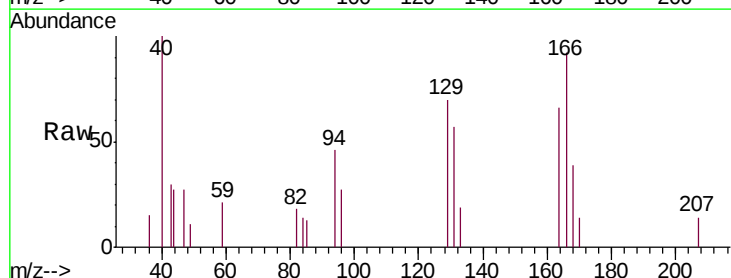
Ion Ratio Lower Upper

164 100

129 106.5 64.8 120.3

131 85.9 64.5 119.7

166 139.5 91.3 169.6



Abundance Ion 164.00 (163.70 to 164.70): VU032777.D (-2205) (-)

Ion 129.00 (128.70 to 129.70): VU032777.D (-2205) (-)

Ion 131.00 (130.70 to 131.70): VU032777.D (-2205) (-)

Ion 166.00 (165.70 to 166.70): VU032777.D (-2205) (-)

8.22

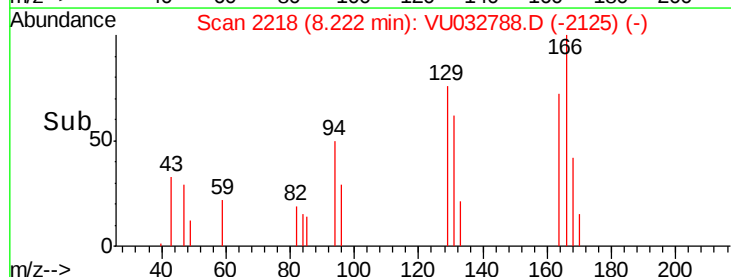
1000

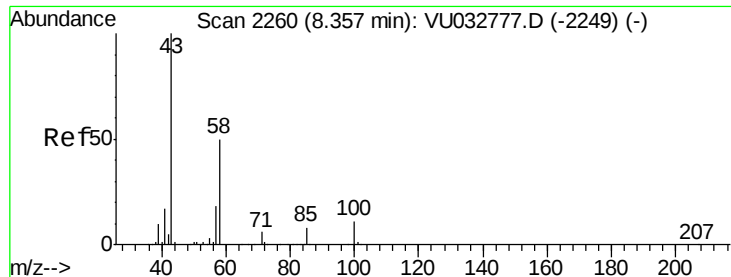
500

0

8.18 8.20 8.22 8.24 8.26

Time-->

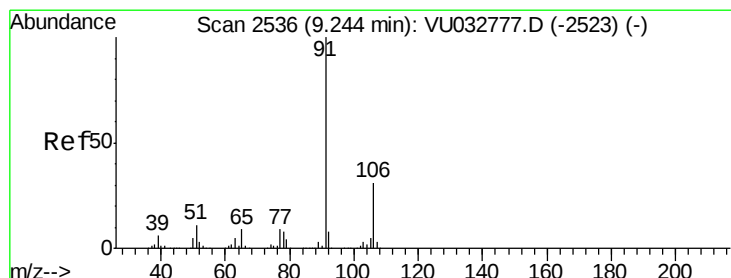
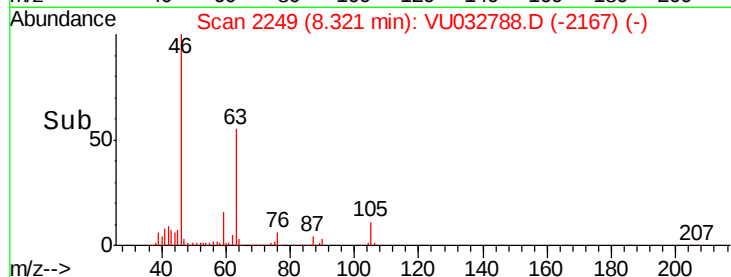
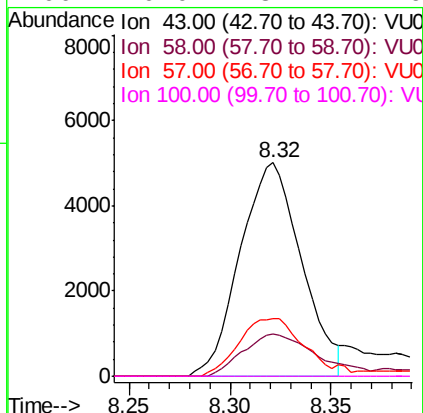
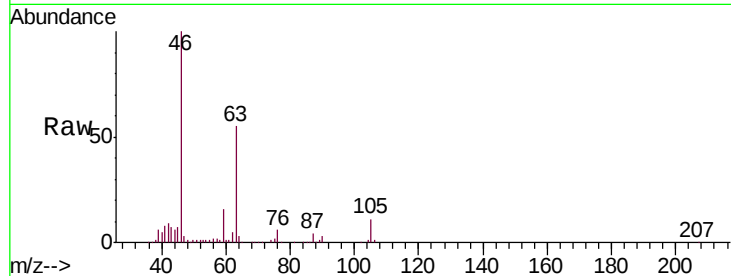




#48  
2-Hexanone  
Concen: 4.052 ug/L  
RT: 8.32 min Scan# 2249  
Delta R.T. -0.04 min  
Lab File: VU032788.D  
Acq: 17 Jun 2019 17:27

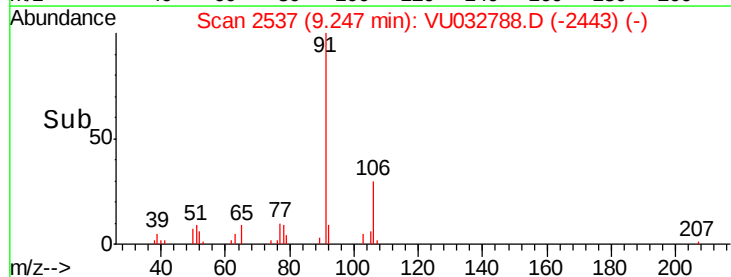
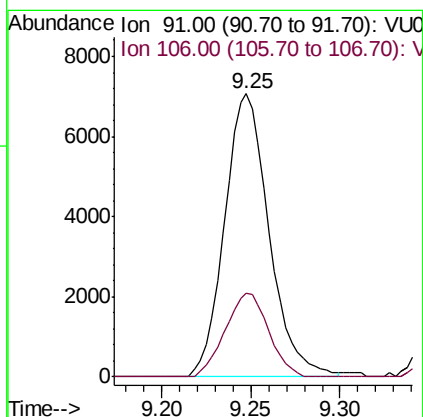
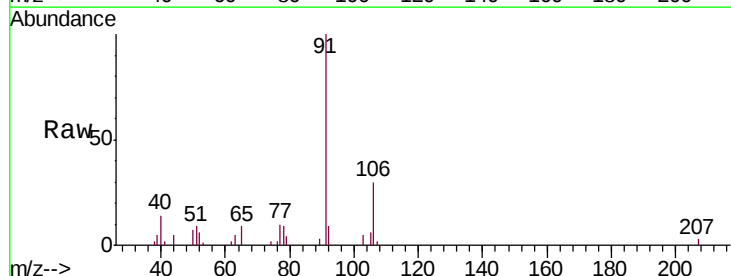
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JX0ME

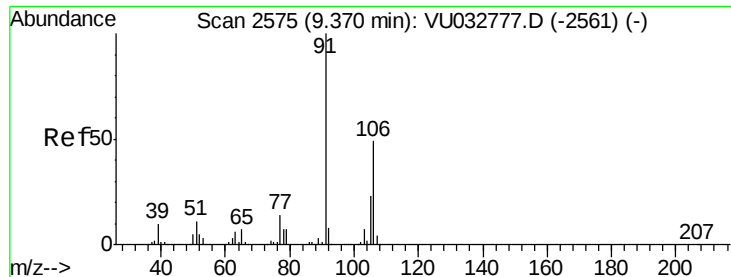
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 23.6  | 40.2  | 60.2# |
| 57      | 27.8  | 14.2  | 21.4# |
| 100     | 0.0   | 8.4   | 12.6# |



#52  
Ethylbenzene  
Concen: 1.507 ug/L  
RT: 9.25 min Scan# 2537  
Delta R.T. 0.00 min  
Lab File: VU032788.D  
Acq: 17 Jun 2019 17:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 29.7  | 21.8  | 40.4  |





#53

m,p-Xylene

Concen: 3.926 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU032788.D

Acq: 17 Jun 2019 17:27

Instrument :

MSVOA\_U

ClientSampleId :

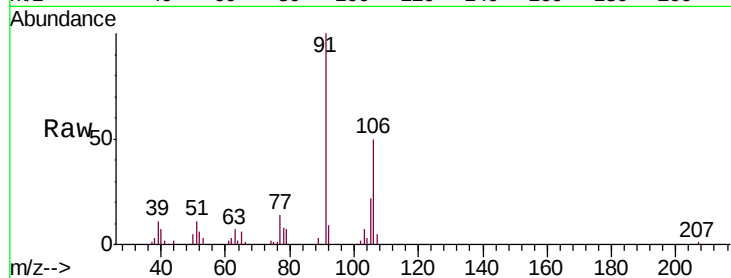
C0JX0ME

Tgt Ion:106 Resp: 12039

Ion Ratio Lower Upper

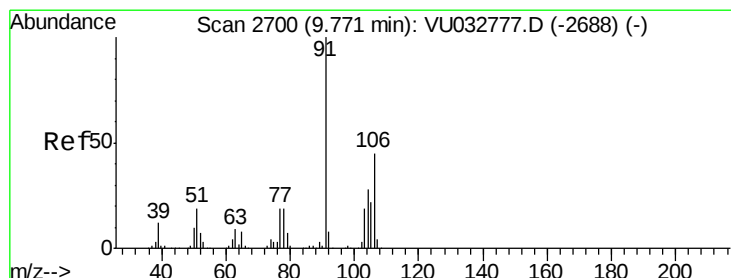
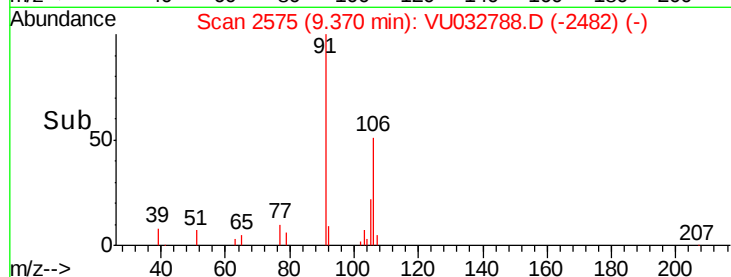
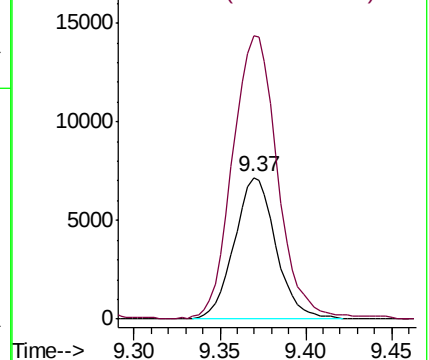
106 100

91 199.7 142.9 265.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 1.751 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.01 min

Lab File: VU032788.D

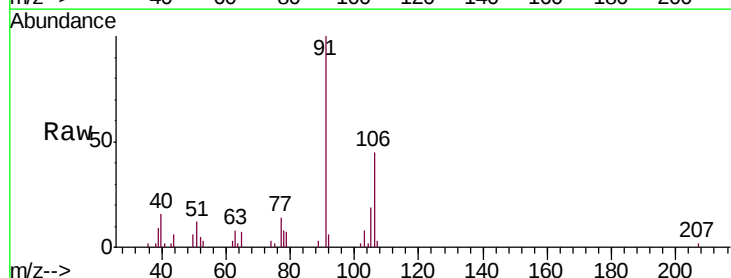
Acq: 17 Jun 2019 17:27

Tgt Ion:106 Resp: 5244

Ion Ratio Lower Upper

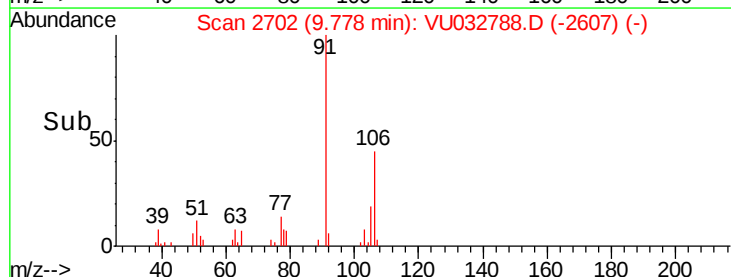
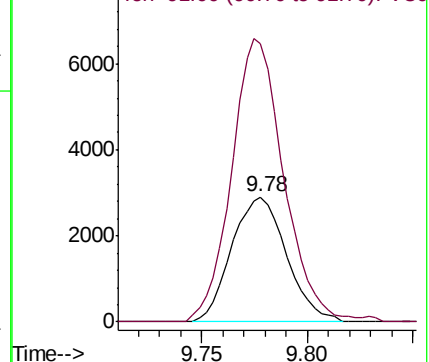
106 100

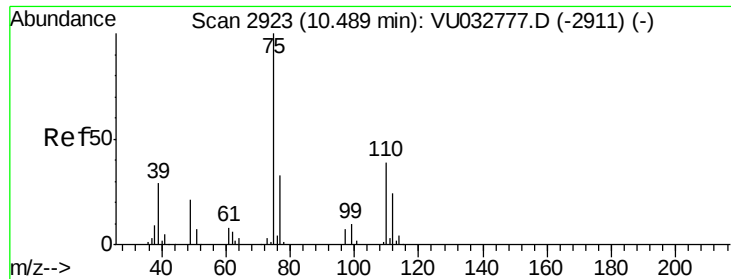
91 222.0 152.9 284.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#59  
 1,2,3-Trichloropropane  
 Concen: 6.439 ug/L  
 RT: 11.48 min Scan# 3231  
 Delta R.T. 0.99 min  
 Lab File: VU032788.D  
 Acq: 17 Jun 2019 17:27

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JX0ME

Tgt Ion: 75 Resp: 15995  
 Ion Ratio Lower Upper  
 75 100  
 77 38.1 25.5 38.3

