

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU032219\  
 Data File : VU030296.D  
 Acq On : 22 Mar 2019 10:33  
 Operator : JC/SP  
 Sample : VU0322WBL01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VBLK48

Quant Time: Mar 23 02:35:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Mar 23 02:31:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 511994   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 489546   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 227684   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

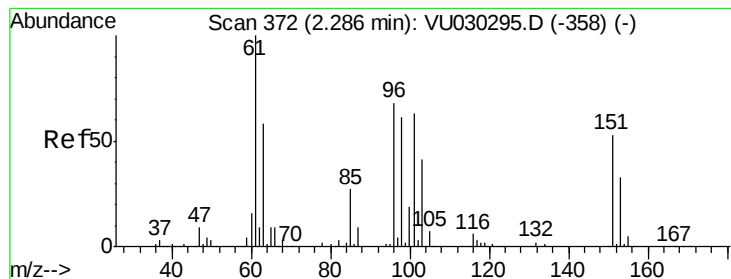
|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 166364   | 48.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 96.10%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 139698   | 50.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 100.92% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 231572   | 36.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 73.32%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 274432   | 106.85   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 106.85% |
| 24) Chloroform-d               | 4.65    | 84    | 308777   | 48.60    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 183275   | 50.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.14% |
| 32) Benzene-d6                 | 5.34    | 84    | 664513   | 51.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.02% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 208634   | 52.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 104.54% |
| 41) Toluene-d8                 | 7.56    | 98    | 593444   | 48.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.84%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 94634    | 48.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 97.38%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 223631   | 108.04   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 108.04% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 312272   | 51.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 102.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 240719   | 52.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.32% |

## Target Compounds

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|--------------------------------|-------|------|----------|-------|--------|--------|
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101  | 2465     | 0.717 | ug/L # | 20     |
| 12) 1,1-Dichloroethene         | 2.27  | 96   | 2027     | 0.593 | ug/L # | 1      |
| 13) Acetone                    | 2.32  | 43   | 1352     | 0.504 | ug/L   | 88     |
| 40) 4-Methyl-2-pentanone       | 7.47  | 43   | 4176     | 0.840 | ug/L # | 68     |
| 44) trans-1,3-Dichloropropene  | 7.85  | 75   | 3281     | 0.653 | ug/L   | 94     |
| 48) 2-Hexanone                 | 8.37  | 43   | 8067     | 1.955 | ug/L # | 93     |
| 62) 1,3-Dichlorobenzene        | 11.42 | 146  | 3347     | 0.461 | ug/L   | 87     |
| 63) 1,4-Dichlorobenzene        | 11.51 | 146  | 5046     | 0.670 | ug/L   | 94     |
| 67) 1,3,5-Trichlorobenzene     | 12.90 | 180  | 3668     | 0.646 | ug/L   | 94     |
| 68) 1,2,4-trichlorobenzene     | 13.51 | 180  | 5179     | 1.032 | ug/L   | 88     |
| 69) Naphthalene                | 13.75 | 128  | 29618    | 1.859 | ug/L # | 89     |
| 70) 1,2,3-Trichlorobenzene     | 13.99 | 180  | 6076     | 1.160 | ug/L # | 58     |

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





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.717 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.02 min

Lab File: VU030296.D

Acq: 22 Mar 2019 10:33

Instrument :

MSVOA\_U

ClientSampleId :

VBLK48

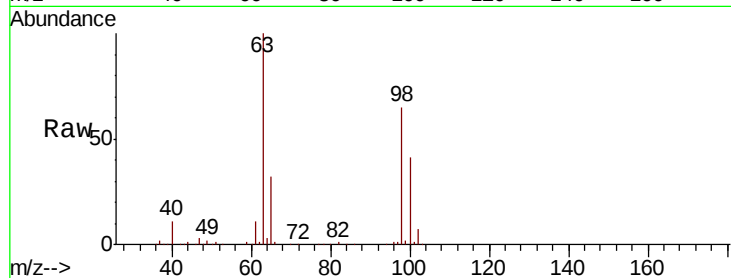
Tgt Ion: 101 Resp: 2465

Ion Ratio Lower Upper

101 100

85 0.0 32.5 48.7#

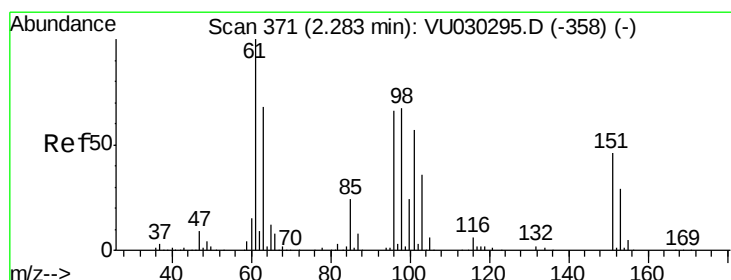
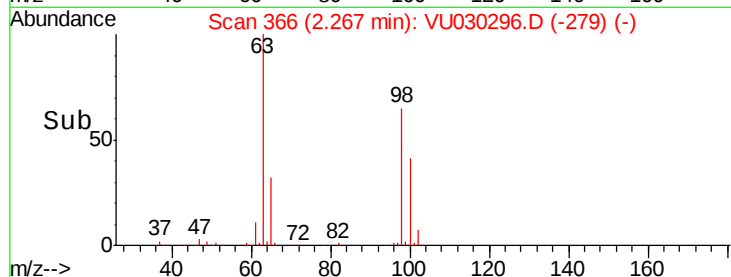
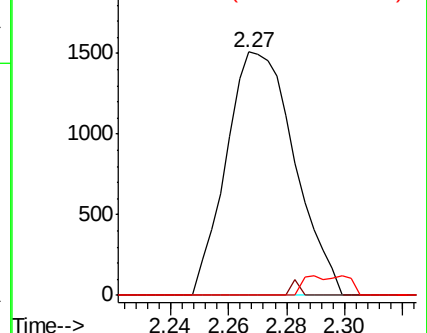
151 2.6 64.7 97.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.593 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.01 min

Lab File: VU030296.D

Acq: 22 Mar 2019 10:33

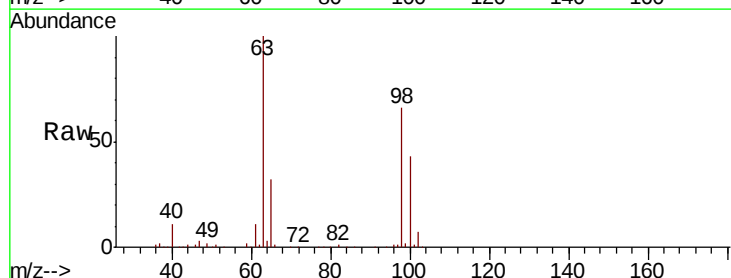
Tgt Ion: 96 Resp: 2027

Ion Ratio Lower Upper

96 100

61 1316.5 104.6 194.2#

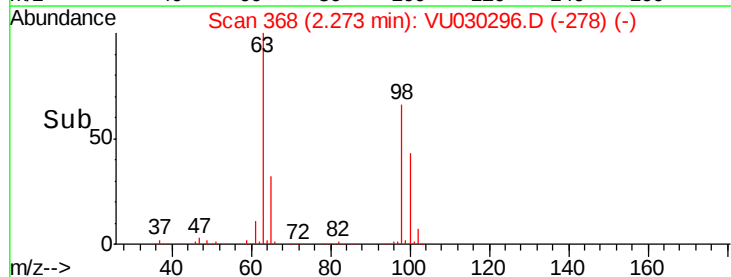
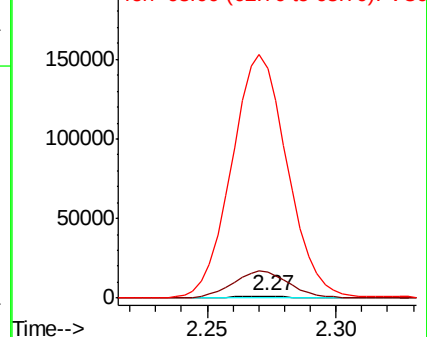
63 11642.9 77.2 143.4#

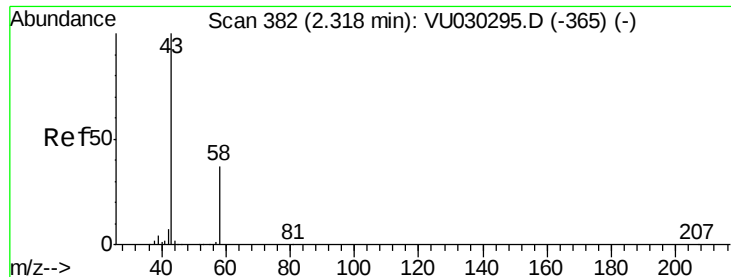


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.504 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030296.D

Acq: 22 Mar 2019 10:33

Instrument :

MSVOA\_U

ClientSampled :

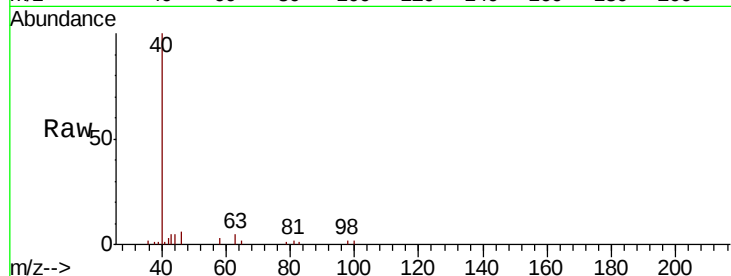
VBLK48

Tgt Ion: 43 Resp: 1352

Ion Ratio Lower Upper

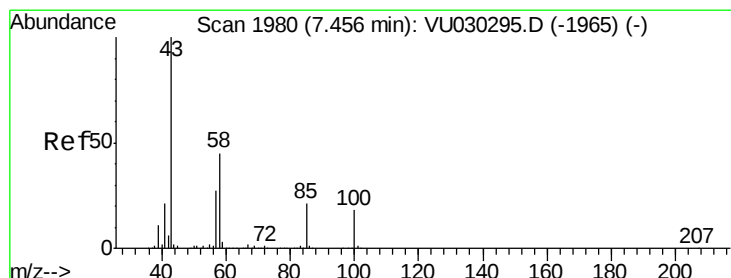
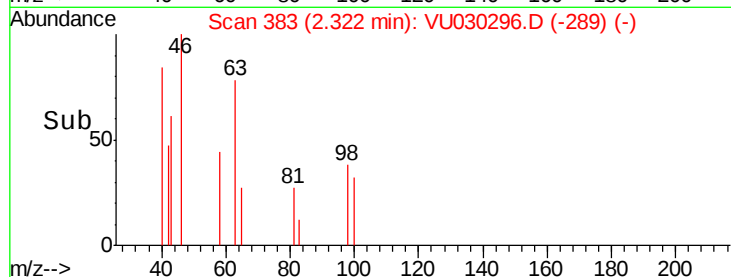
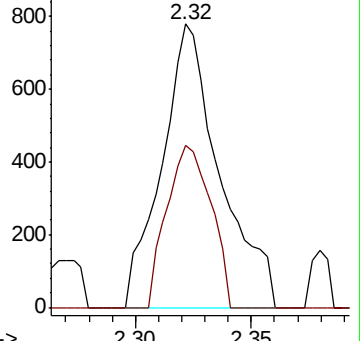
43 100

58 43.7 0.0 73.4



Abundance Ion 43.00 (42.70 to 43.70): VU030295.D (-365) (-)

Ion 58.00 (57.70 to 58.70): VU030295.D (-365) (-)



#40

4-Methyl-2-pentanone

Concen: 0.840 ug/L

RT: 7.47 min Scan# 1984

Delta R.T. 0.01 min

Lab File: VU030296.D

Acq: 22 Mar 2019 10:33

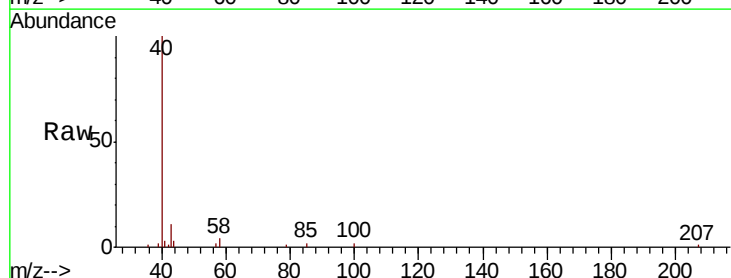
Tgt Ion: 43 Resp: 4176

Ion Ratio Lower Upper

43 100

58 15.4 34.4 51.6#

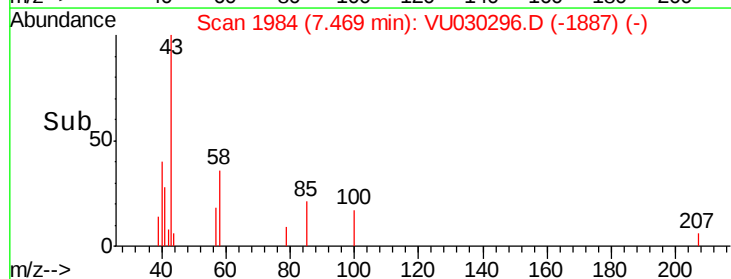
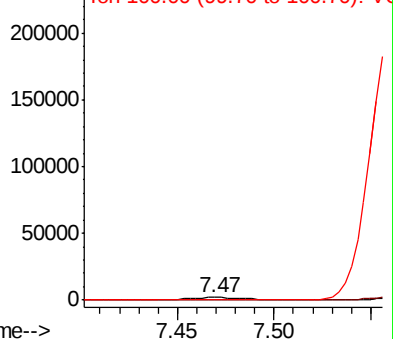
100 14.9 13.9 20.9

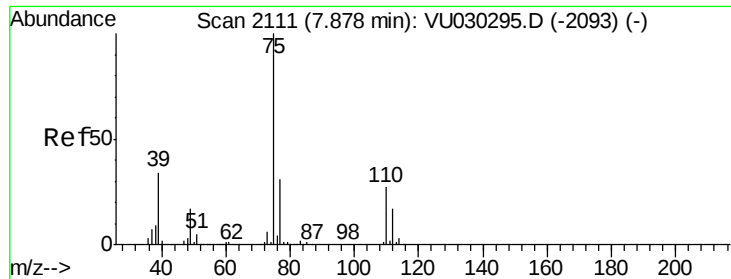


Abundance Ion 43.00 (42.70 to 43.70): VU030295.D (-1965) (-)

Ion 58.00 (57.70 to 58.70): VU030295.D (-1965) (-)

Ion 100.00 (99.70 to 100.70): VU030295.D (-1965) (-)

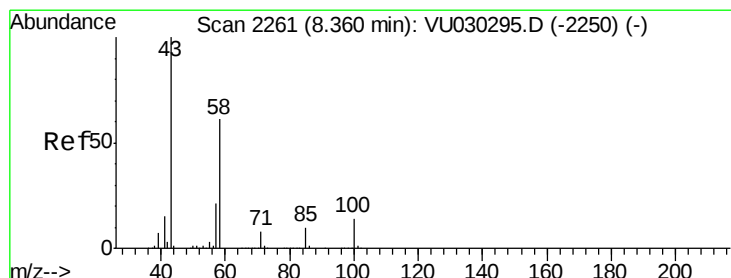
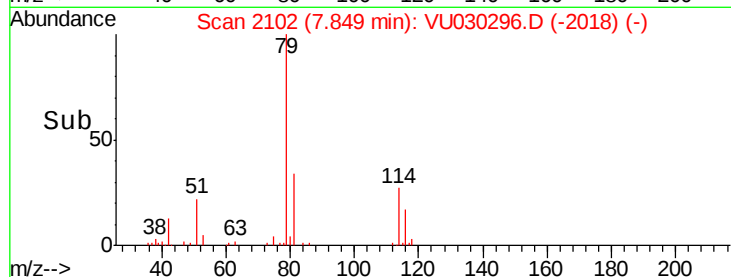
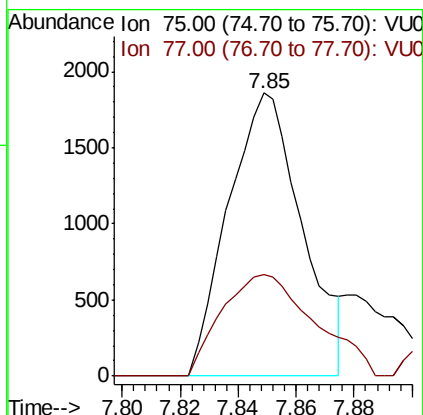
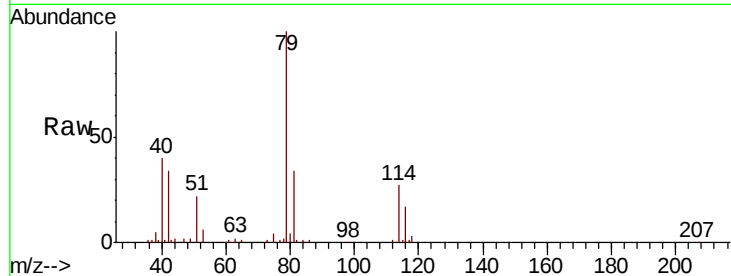




#44  
trans-1,3-Dichloropropene  
Concen: 0.653 ug/L  
RT: 7.85 min Scan# 2102  
Delta R.T. -0.03 min  
Lab File: VU030296.D  
Acq: 22 Mar 2019 10:33

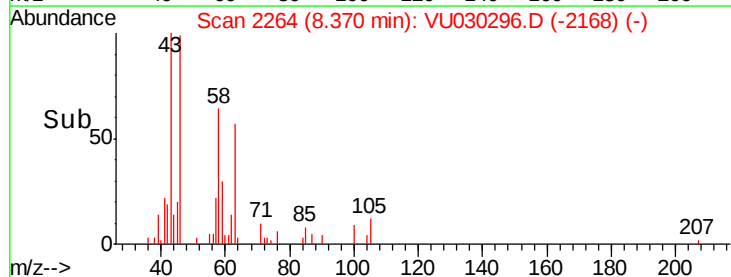
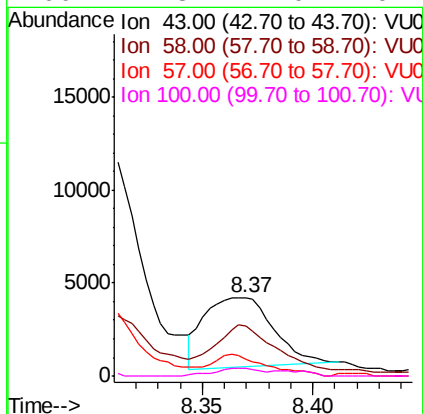
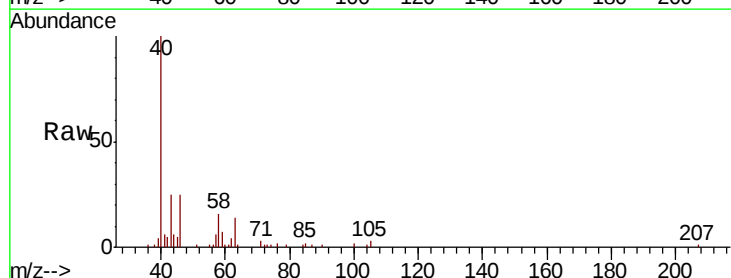
Instrument :  
MSVOA\_U  
ClientSampleId :  
VBLK48

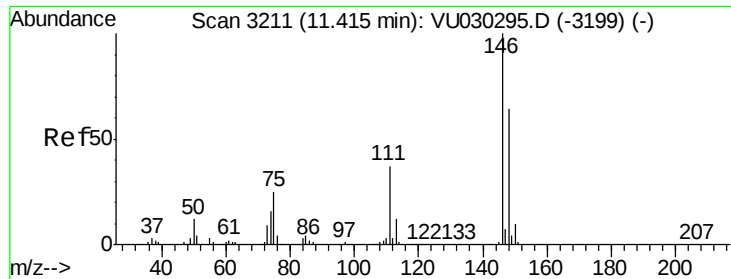
Tgt Ion: 75 Resp: 3281  
Ion Ratio Lower Upper  
75 100  
77 35.9 22.7 42.1



#48  
2-Hexanone  
Concen: 1.955 ug/L  
RT: 8.37 min Scan# 2264  
Delta R.T. 0.01 min  
Lab File: VU030296.D  
Acq: 22 Mar 2019 10:33

Tgt Ion: 43 Resp: 8067  
Ion Ratio Lower Upper  
43 100  
58 57.8 49.3 73.9  
57 24.7 17.0 25.4  
100 7.8 11.0 16.4#





#62

1,3-Dichlorobenzene

Concen: 0.461 ug/L

RT: 11.42 min Scan# 3213

Delta R.T. 0.01 min

Lab File: VU030296.D

Acq: 22 Mar 2019 10:33

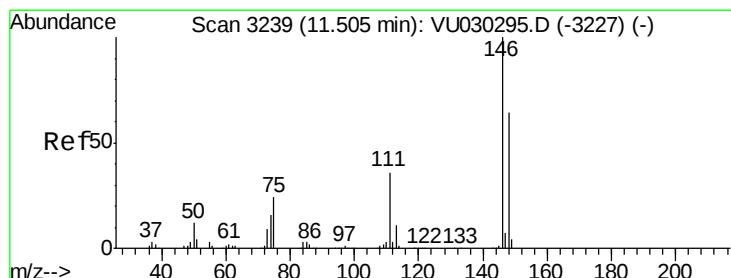
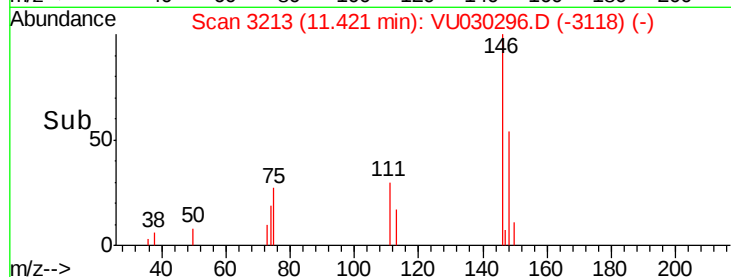
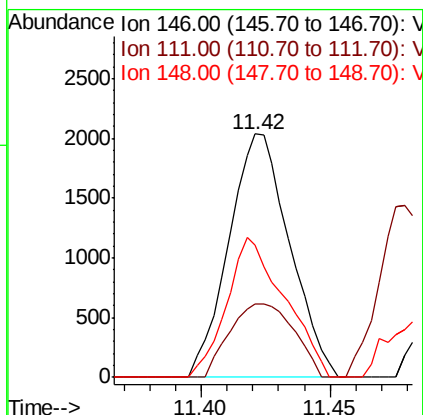
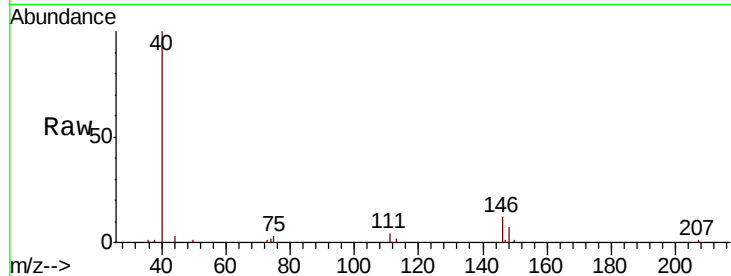
Instrument :

MSVOA\_U

ClientSampled :

VBLK48

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 3347  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 29.9  | 27.2  | 50.4  |
| 148      | 54.3  | 44.4  | 82.5  |



#63

1,4-Dichlorobenzene

Concen: 0.670 ug/L

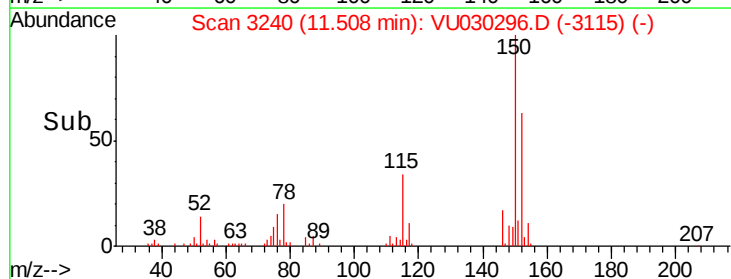
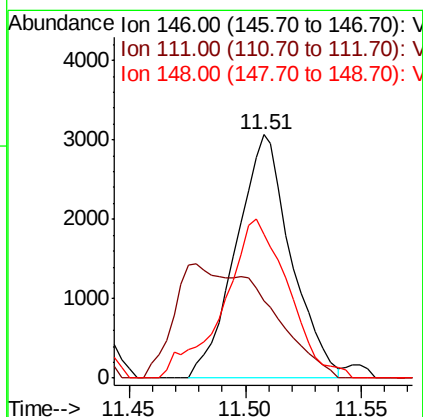
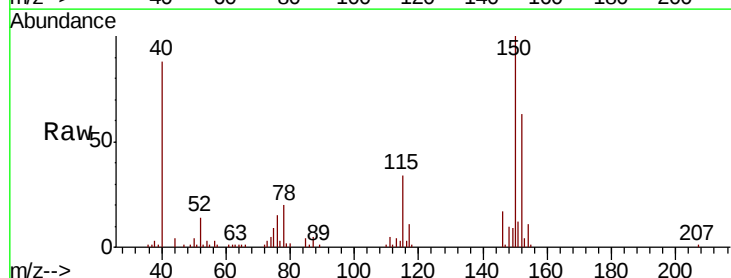
RT: 11.51 min Scan# 3240

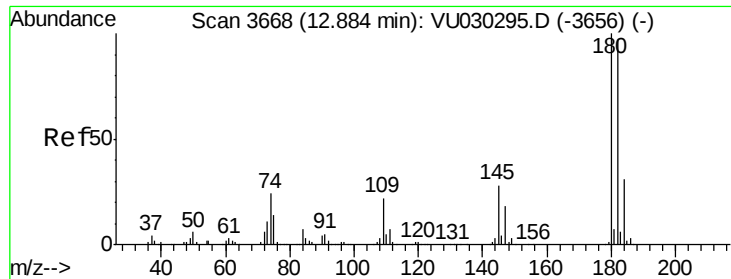
Delta R.T. 0.00 min

Lab File: VU030296.D

Acq: 22 Mar 2019 10:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 5046  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 31.8  | 25.3  | 46.9  |
| 148      | 59.2  | 44.7  | 82.9  |

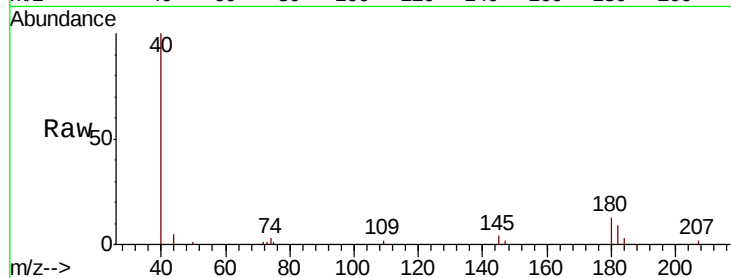




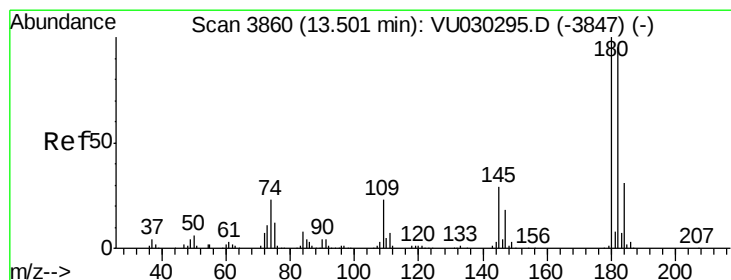
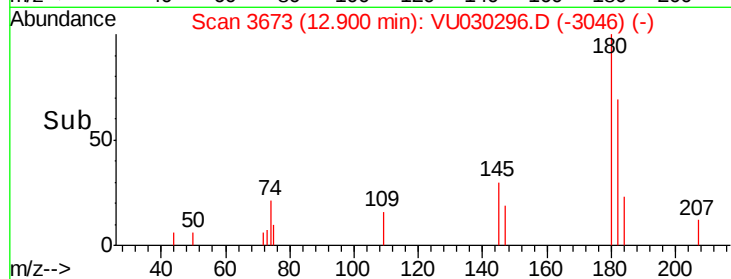
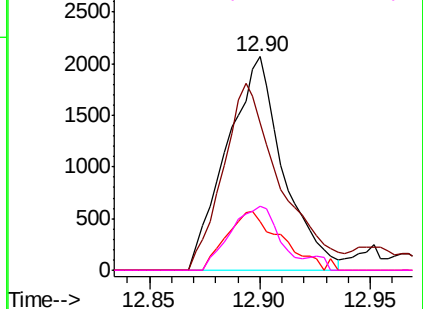
#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.646 ug/L  
 RT: 12.90 min Scan# 3673  
 Delta R.T. 0.02 min  
 Lab File: VU030296.D  
 Acq: 22 Mar 2019 10:33

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VBLK48

Tgt Ion:180 Resp: 3668  
 Ion Ratio Lower Upper  
 180 100  
 182 89.1 76.0 114.0  
 184 26.4 24.2 36.4  
 145 25.8 22.1 33.1

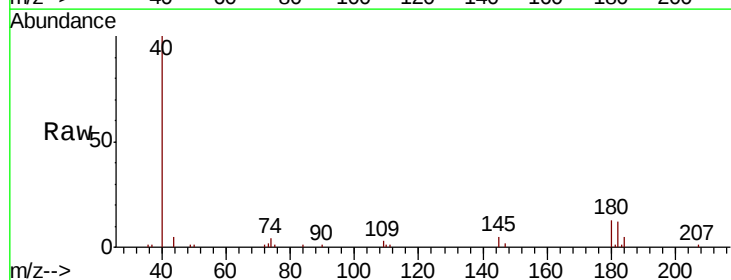


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

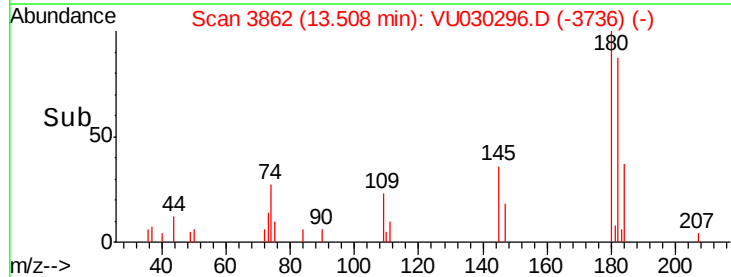
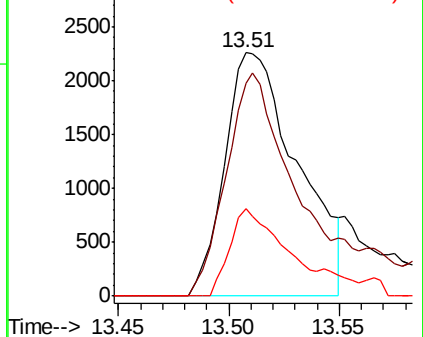


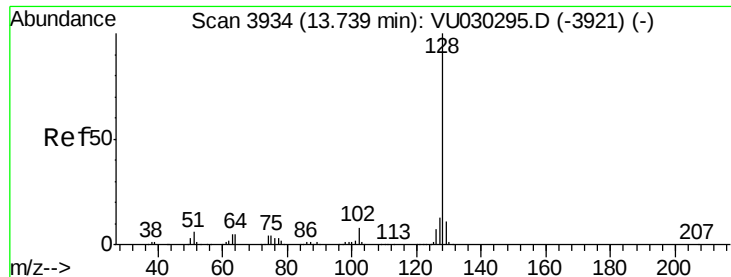
#68  
 1,2,4-trichlorobenzene  
 Concen: 1.032 ug/L  
 RT: 13.51 min Scan# 3862  
 Delta R.T. 0.01 min  
 Lab File: VU030296.D  
 Acq: 22 Mar 2019 10:33

Tgt Ion:180 Resp: 5179  
 Ion Ratio Lower Upper  
 180 100  
 182 81.2 76.4 114.6  
 145 26.6 22.7 34.1



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 1.859 ug/L

RT: 13.75 min Scan# 3938

Delta R.T. 0.01 min

Lab File: VU030296.D

Acq: 22 Mar 2019 10:33

Instrument :

MSVOA\_U

ClientSampleId :

VBLK48

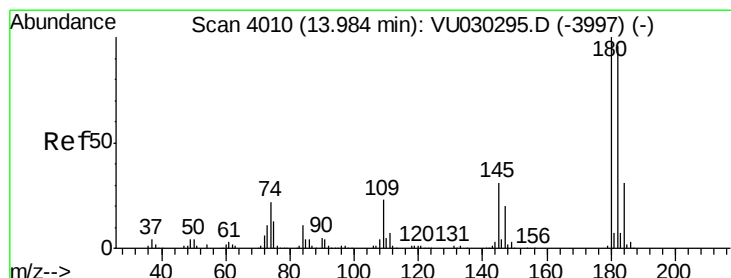
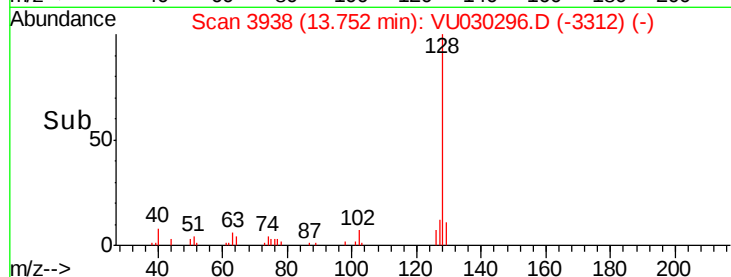
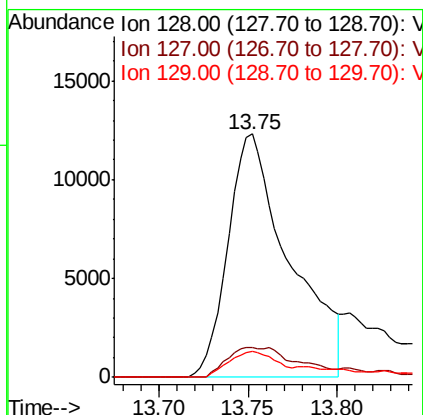
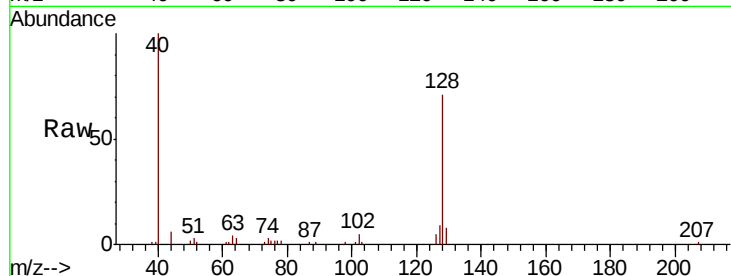
Tgt Ion:128 Resp: 29618

Ion Ratio Lower Upper

128 100

127 6.3 10.2 15.2#

129 8.4 8.5 12.7#



#70

1,2,3-Trichlorobenzene

Concen: 1.160 ug/L

RT: 13.99 min Scan# 4013

Delta R.T. 0.01 min

Lab File: VU030296.D

Acq: 22 Mar 2019 10:33

Tgt Ion:180 Resp: 6076

Ion Ratio Lower Upper

180 100

182 41.8 75.9 113.9#

145 31.2 24.1 36.1

