

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080918\  
 Data File : VU026029.D  
 Acq On : 10 Aug 2018 04:56  
 Operator : MD/SY  
 Sample : J4401-17 10X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 A4ZF5

Quant Time: Aug 10 08:33:43 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM080918WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 10 07:39:13 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 287542   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 272080   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 132746   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 72045    | 34.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 68.56%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 66353    | 39.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 79.64%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 113824   | 28.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 57.00%# |
| 21) 2-Butanone-d5              | 4.18    | 46    | 146113   | 83.41    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 83.41%  |
| 24) Chloroform-d               | 4.65    | 84    | 186036   | 41.74    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 83.48%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 129052   | 42.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.72%  |
| 32) Benzene-d6                 | 5.35    | 84    | 349324   | 41.35    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 82.70%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 118052   | 43.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 86.36%  |
| 41) Toluene-d8                 | 7.57    | 98    | 318653   | 39.42    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 78.84%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 52333    | 38.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.00%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 102235   | 82.34    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 82.34%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 168172   | 42.07    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 84.14%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 141303   | 43.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.36%  |

## Target Compounds

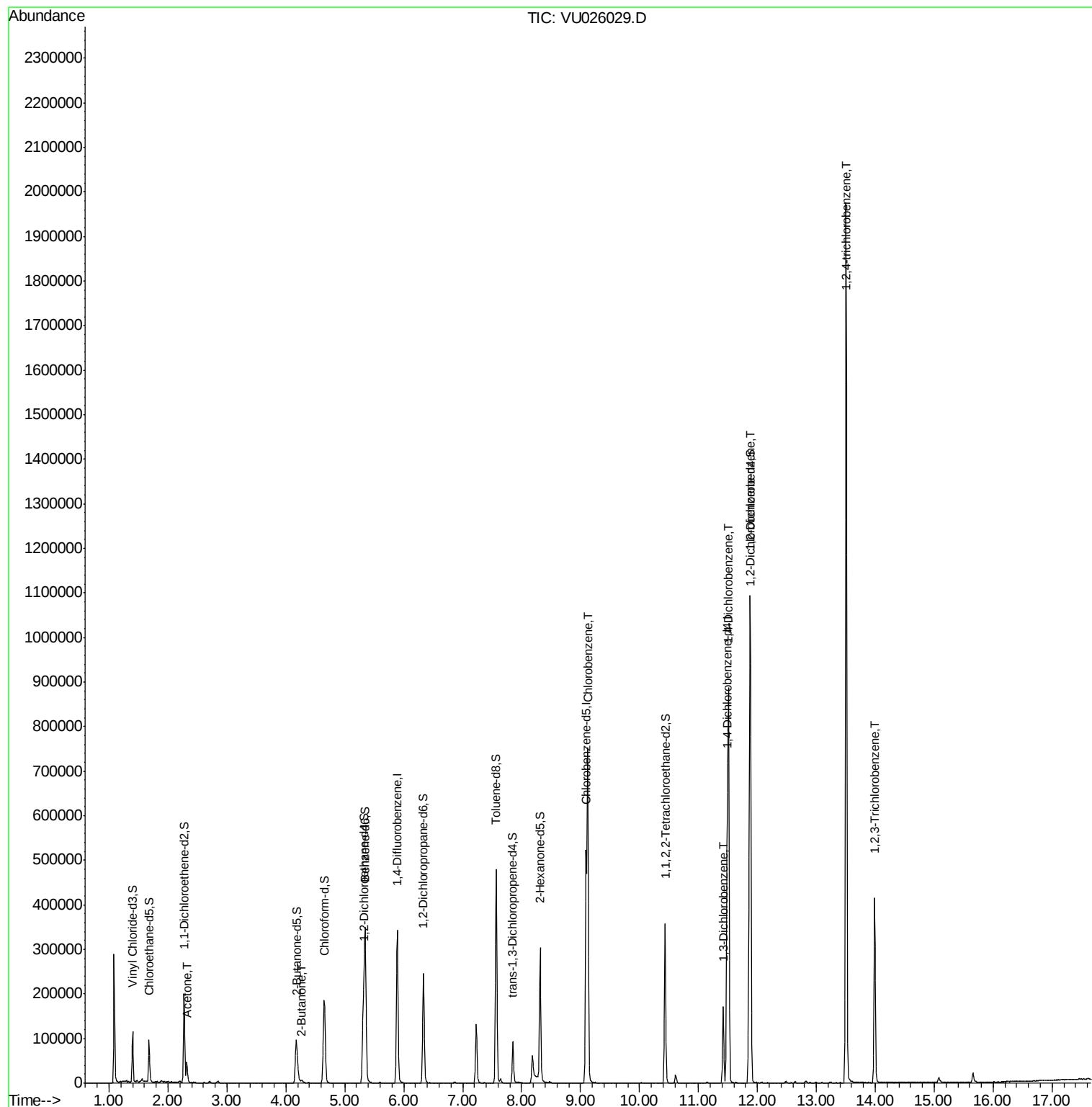
|                            |       |     |        |        | Ovalue   |
|----------------------------|-------|-----|--------|--------|----------|
| 13) Acetone                | 2.32  | 43  | 44312  | 40.72  | ug/L 99  |
| 22) 2-Butanone             | 4.27  | 43  | 6143   | 3.90   | ug/L 100 |
| 51) Chlorobenzene          | 9.12  | 112 | 395100 | 71.24  | ug/L 99  |
| 62) 1,3-Dichlorobenzene    | 11.42 | 146 | 70907  | 17.16  | ug/L 95  |
| 63) 1,4-Dichlorobenzene    | 11.51 | 146 | 340278 | 78.55  | ug/L 98  |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146 | 392269 | 89.17  | ug/L 99  |
| 68) 1,2,4-trichlorobenzene | 13.51 | 180 | 592658 | 226.91 | ug/L 99  |
| 70) 1,2,3-Trichlorobenzene | 13.99 | 180 | 131318 | 46.78  | ug/L 99  |

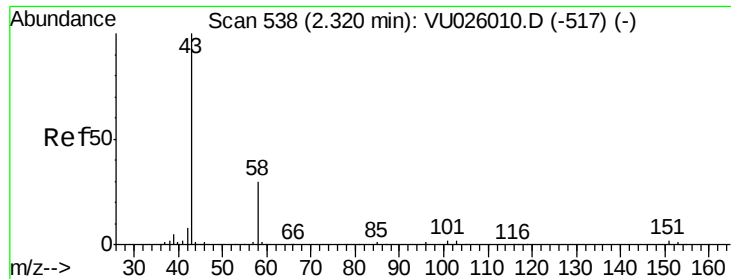
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Fri Aug 10 07:39:13 2018  
Response via : Initial Calibration





#13

Acetone

Concen: 40.72 ug/L

RT: 2.32 min Scan# 538

Delta R.T. 0.00 min

Lab File: VU026029.D

Acq: 10 Aug 2018 04:56

Instrument :

MSVOA\_U

ClientSampleId :

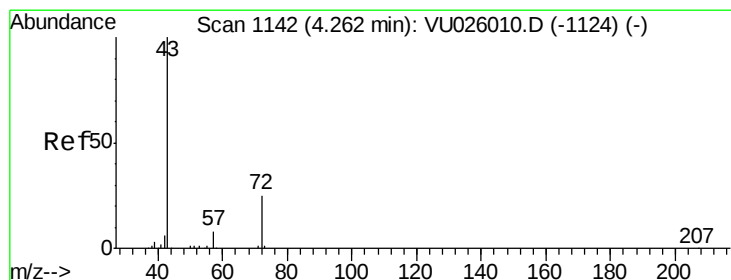
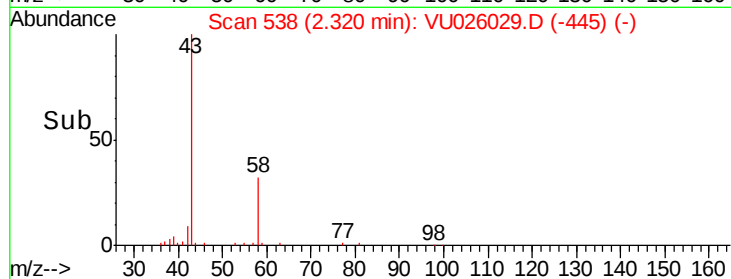
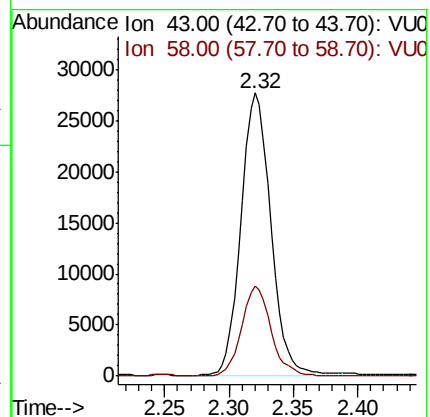
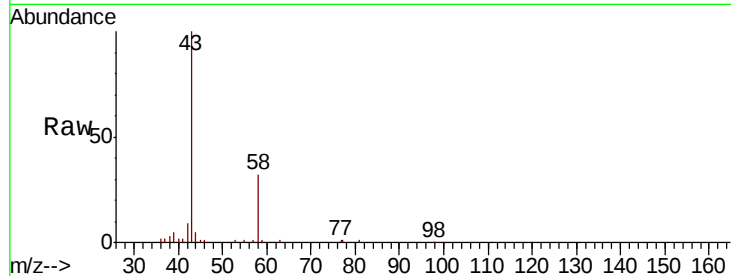
A4ZF5

Tot Ion: 43 Resp: 44312

Ion Ratio Lower Upper

43 100

58 31.5 0.0 61.8



#22

2-Butanone

Concen: 3.90 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU026029.D

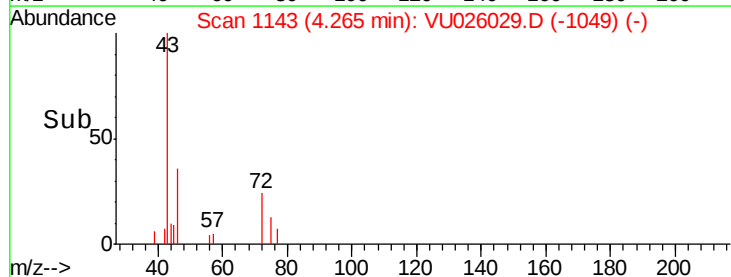
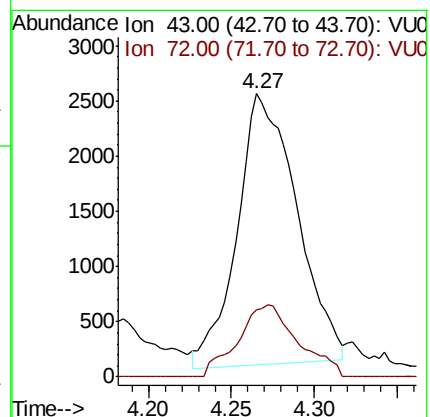
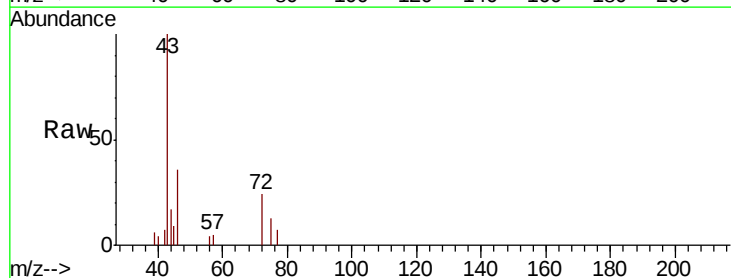
Acq: 10 Aug 2018 04:56

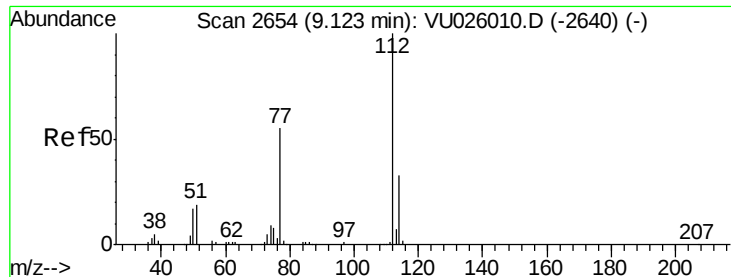
Tgt Ion: 43 Resp: 6143

Ion Ratio Lower Upper

43 100

72 26.7 13.5 40.5





#51

Chlorobenzene

Concen: 71.24 ug/L

RT: 9.12 min Scan# 2653

Delta R.T. -0.00 min

Lab File: VU026029.D

Acq: 10 Aug 2018 04:56

Instrument :

MSVOA\_U

ClientSampleId :

A4ZF5

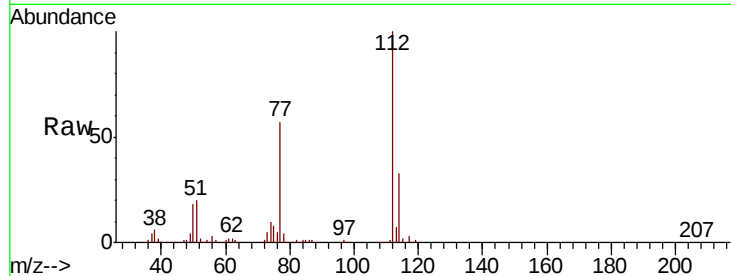
Tot Ion:112 Resp: 395100

Ion Ratio Lower Upper

112 100

114 32.5 22.7 42.3

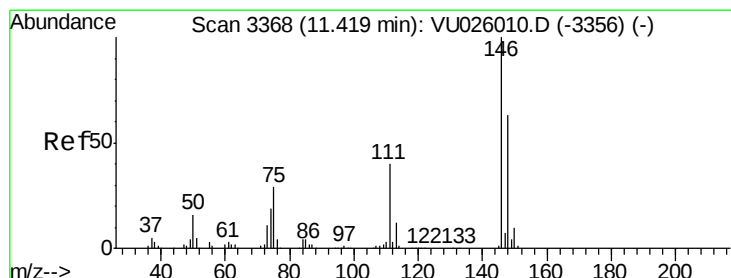
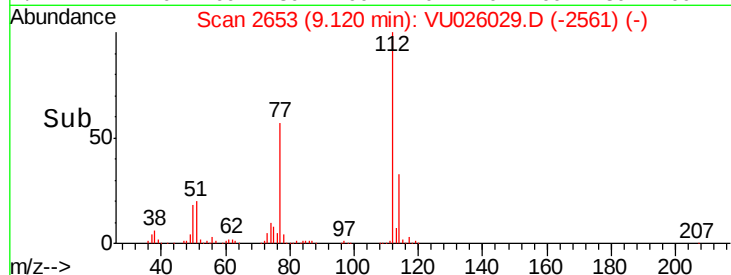
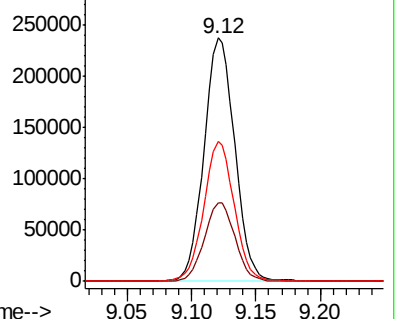
77 57.4 45.2 67.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU



#62

1,3-Dichlorobenzene

Concen: 17.16 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VU026029.D

Acq: 10 Aug 2018 04:56

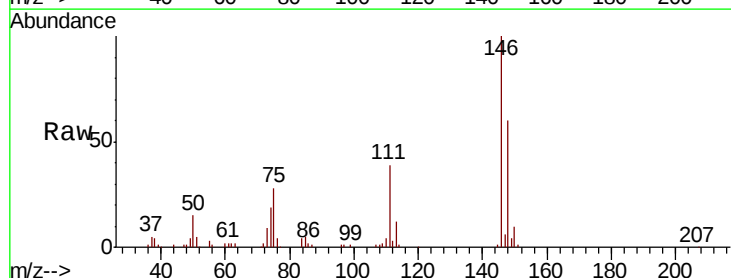
Tgt Ion:146 Resp: 70907

Ion Ratio Lower Upper

146 100

111 38.7 27.9 51.9

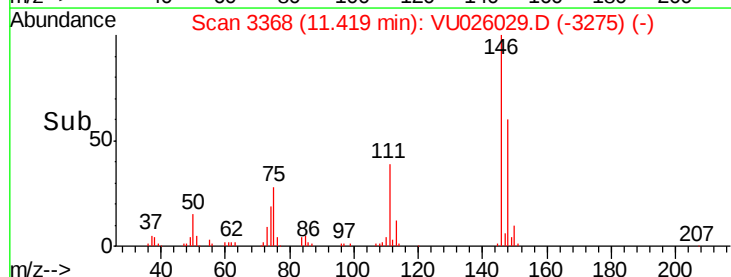
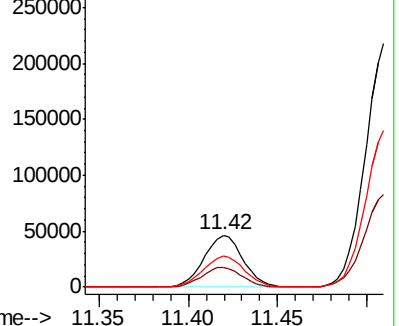
148 59.9 46.0 85.4

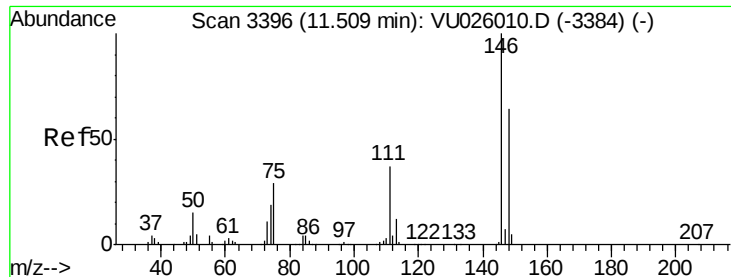


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#63

1,4-Dichlorobenzene

Concen: 78.55 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VU026029.D

Acq: 10 Aug 2018 04:56

Instrument :

MSVOA\_U

ClientSampleId :

A4ZF5

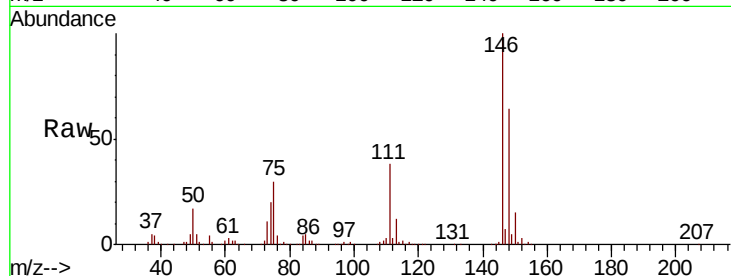
Tot Ion:146 Resp: 340278

Ion Ratio Lower Upper

146 100

111 37.8 26.4 49.0

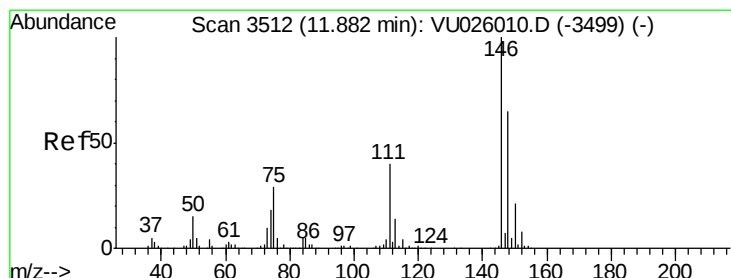
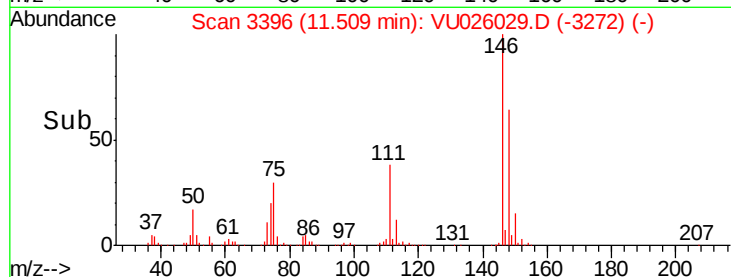
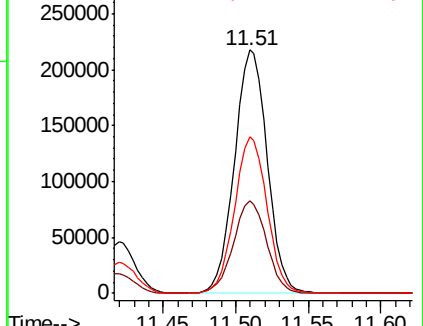
148 64.4 43.8 81.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 89.17 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU026029.D

Acq: 10 Aug 2018 04:56

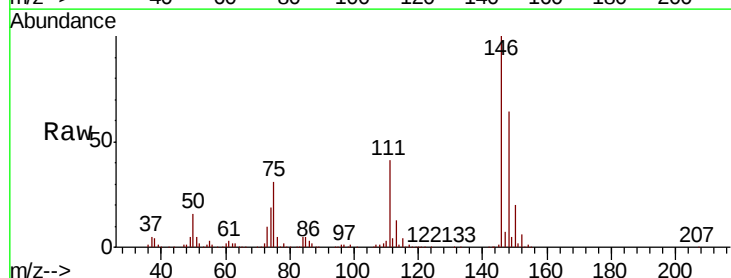
Tgt Ion:146 Resp: 392269

Ion Ratio Lower Upper

146 100

111 41.0 32.4 48.6

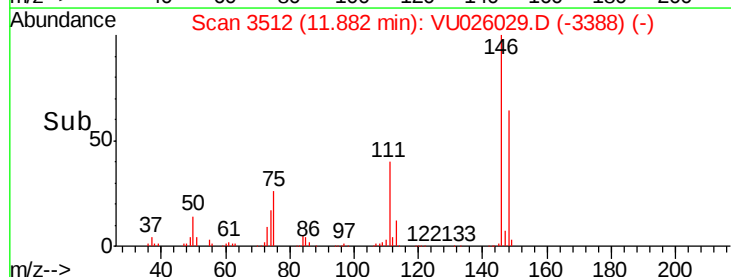
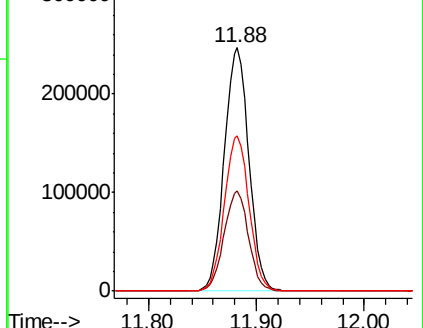
148 63.8 50.1 75.1

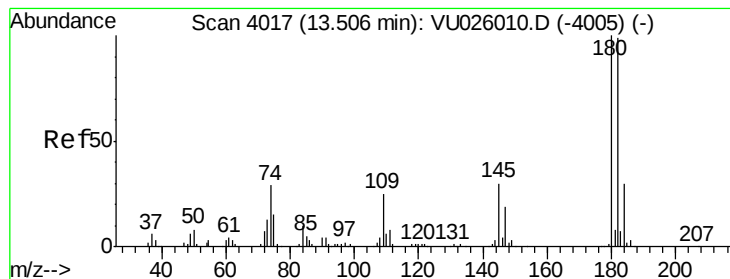


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#68

1,2,4-trichlorobenzene

Concen: 226.91 ug/L

RT: 13.51 min Scan# 4017

Delta R.T. 0.00 min

Lab File: VU026029.D

Acq: 10 Aug 2018 04:56

Instrument :

MSVOA\_U

ClientSampleId :

A4ZF5

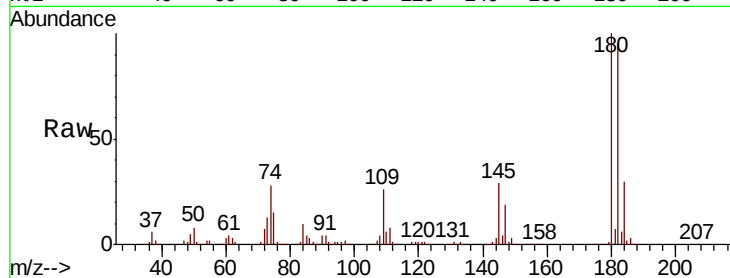
Tot Ion:180 Resp: 592658

Ion Ratio Lower Upper

180 100

182 95.0 76.5 114.7

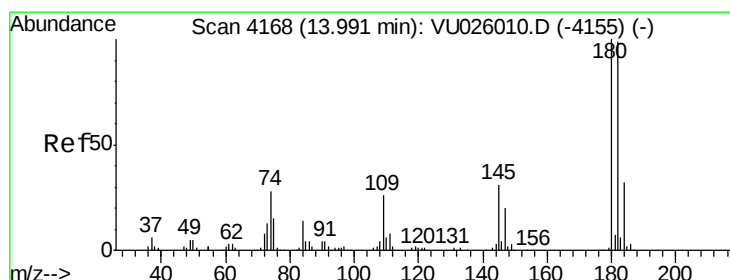
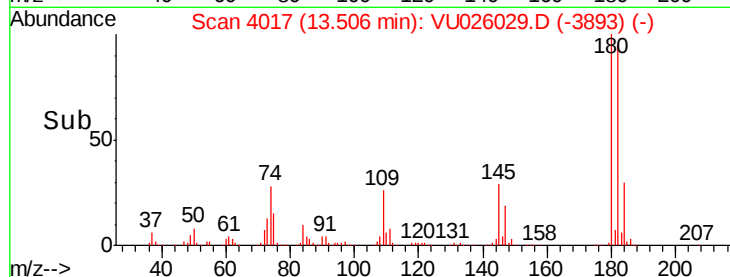
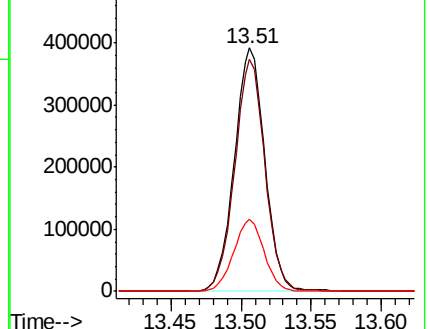
145 29.6 24.2 36.4



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



#70

1,2,3-Trichlorobenzene

Concen: 46.78 ug/L

RT: 13.99 min Scan# 4167

Delta R.T. -0.00 min

Lab File: VU026029.D

Acq: 10 Aug 2018 04:56

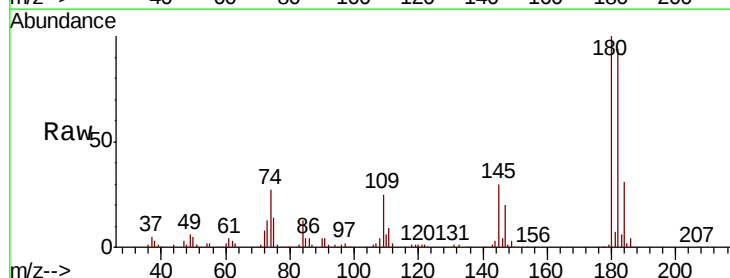
Tgt Ion:180 Resp: 131318

Ion Ratio Lower Upper

180 100

182 96.0 76.5 114.7

145 31.4 24.7 37.1



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

