

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080218\  
 Data File : VU025792.D  
 Acq On : 02 Aug 2018 12:13  
 Operator : MD/SY  
 Sample : J4209-04MEDL 50X  
 Misc : 6.41g/5mL/100uL/5.00mL/MSVOA\_U/MEOH  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AB9MEDL

Quant Time: Aug 03 04:29:35 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 03 04:24:02 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 346266   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 324185   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 172474   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 54170    | 27.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 54.80%# |
| 7) Chloroethane-d5             | 1.68    | 69    | 50345    | 30.88    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 61.76%# |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 88946    | 21.61    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 43.22%# |
| 21) 2-Butanone-d5              | 4.18    | 46    | 121751   | 79.78    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 79.78%  |
| 24) Chloroform-d               | 4.65    | 84    | 141687   | 32.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 64.36%# |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 101681   | 34.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 69.84%# |
| 32) Benzene-d6                 | 5.35    | 84    | 267722   | 32.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 64.40%# |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 88784    | 33.14    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 66.28%# |
| 41) Toluene-d8                 | 7.57    | 98    | 252432   | 31.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 63.32%# |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 44053    | 32.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 64.38%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 81786    | 72.91    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 72.91%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44   | 84    | 128437   | 34.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 68.56%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 117968   | 33.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 67.50%# |

## Target Compounds

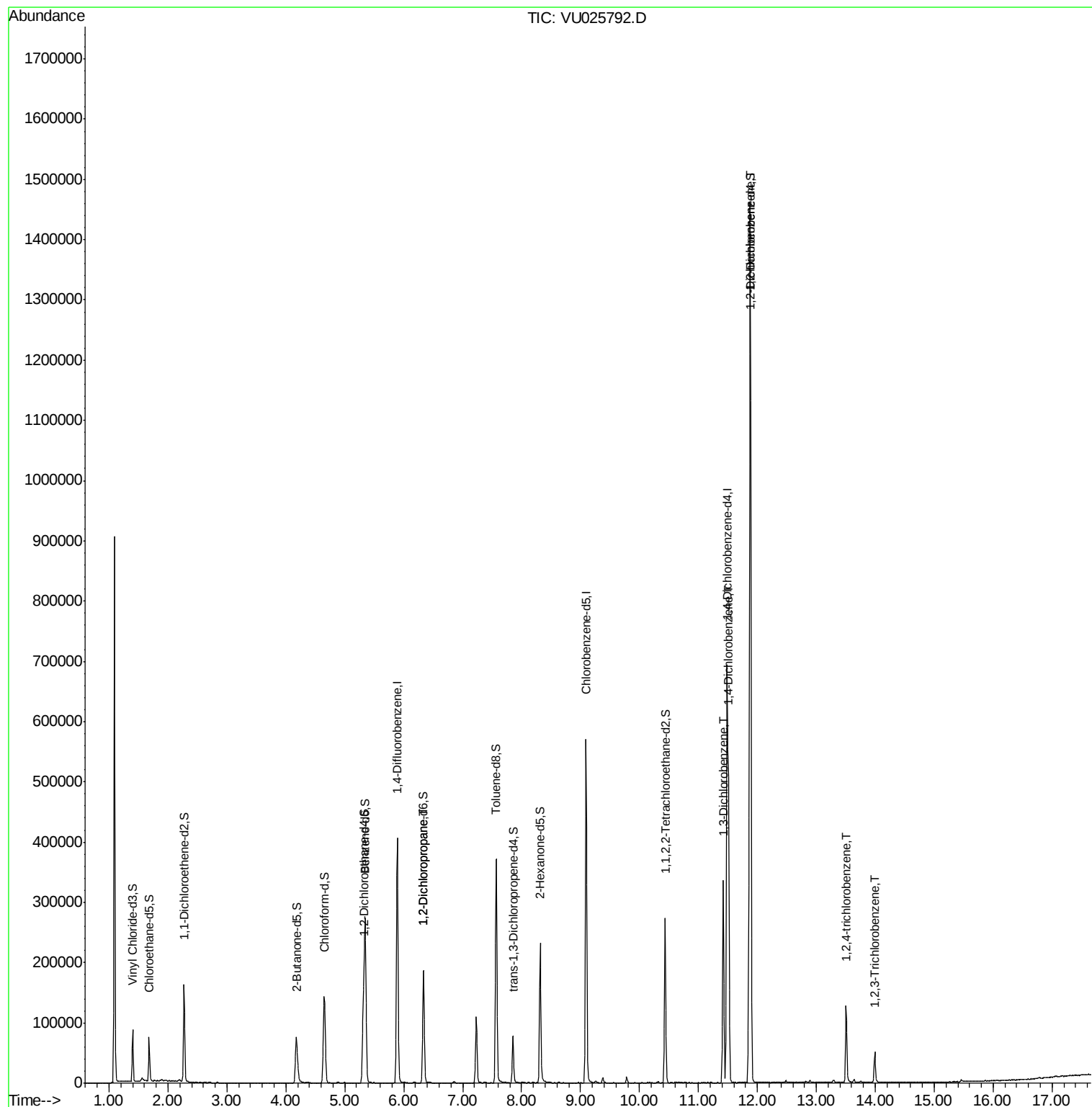
|                            |       |     |        |       | Ovalue    |
|----------------------------|-------|-----|--------|-------|-----------|
| 37) 1,2-Dichloropropane    | 6.34  | 63  | 10687  | 4.20  | ug/L # 88 |
| 62) 1,3-Dichlorobenzene    | 11.42 | 146 | 135820 | 24.90 | ug/L 100  |
| 63) 1,4-Dichlorobenzene    | 11.51 | 146 | 183007 | 32.86 | ug/L 100  |
| 65) 1,2-Dichlorobenzene    | 11.88 | 146 | 563013 | 98.51 | ug/L 99   |
| 68) 1,2,4-trichlorobenzene | 13.51 | 180 | 41829  | 11.82 | ug/L 99   |
| 70) 1,2,3-Trichlorobenzene | 13.99 | 180 | 17866  | 4.78  | ug/L 98   |

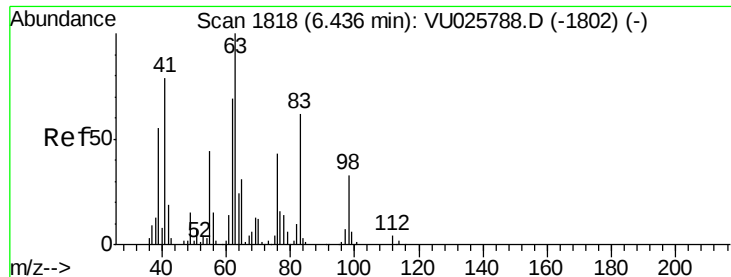
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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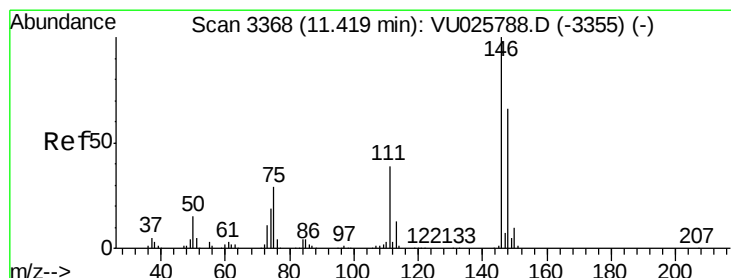
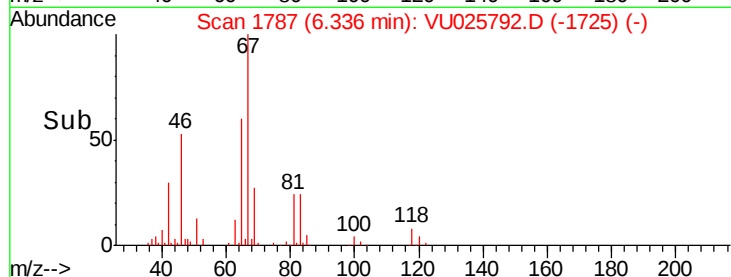
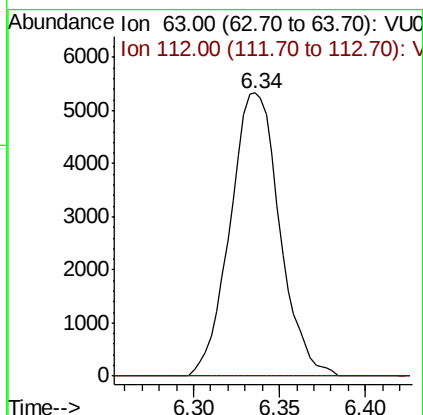
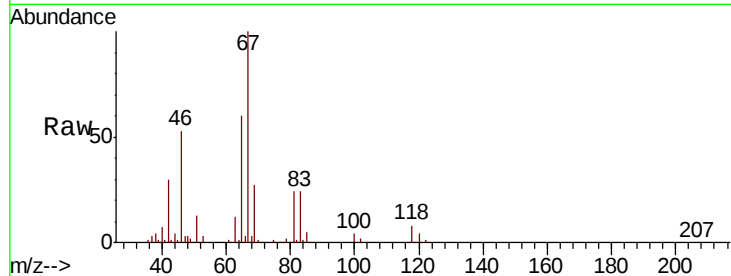




#37  
 1,2-Dichloropropane  
 Concen: 4.20 ug/L  
 RT: 6.34 min Scan# 1787  
 Delta R.T. -0.10 min  
 Lab File: VU025792.D  
 Acq: 02 Aug 2018 12:13

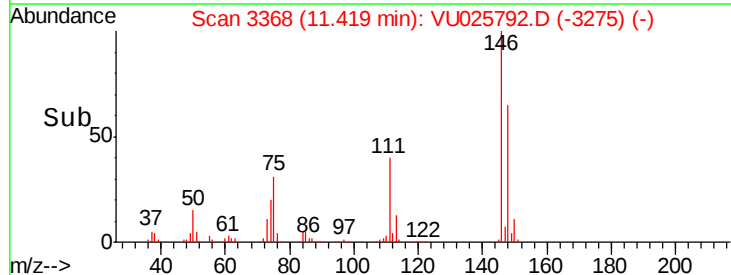
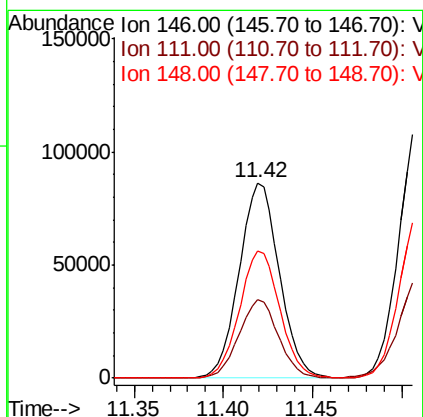
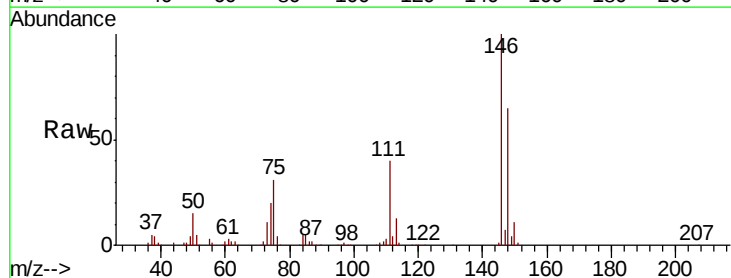
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AB9MEDL

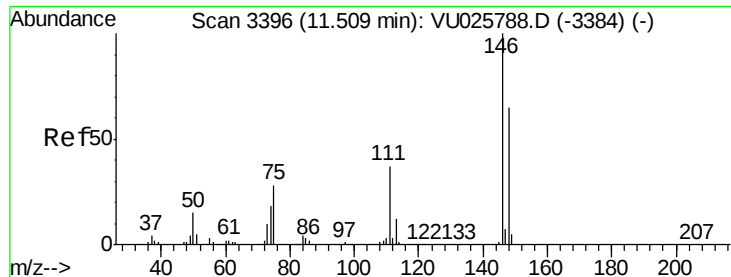
Tot Ion: 63 Resp: 10687  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.3 4.9#



#62  
 1,3-Dichlorobenzene  
 Concen: 24.90 ug/L  
 RT: 11.42 min Scan# 3368  
 Delta R.T. -0.00 min  
 Lab File: VU025792.D  
 Acq: 02 Aug 2018 12:13

Tgt Ion: 146 Resp: 135820  
 Ion Ratio Lower Upper  
 146 100  
 111 39.9 27.7 51.5  
 148 65.2 45.5 84.5





#63

1,4-Dichlorobenzene

Concen: 32.86 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU025792.D

Acq: 02 Aug 2018 12:13

Instrument :

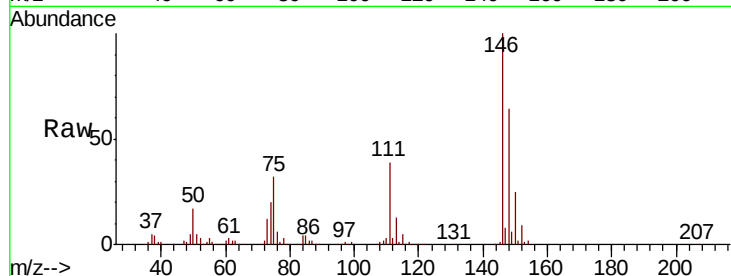
MSVOA\_U

ClientSampleId :

C0AB9MEDL

Tot Ion:146 Resp: 183007

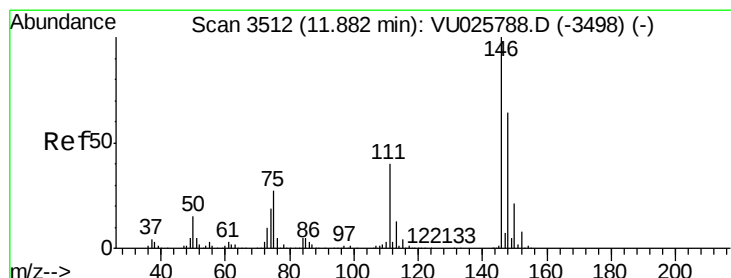
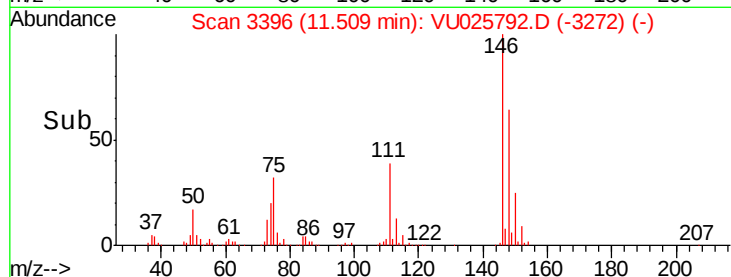
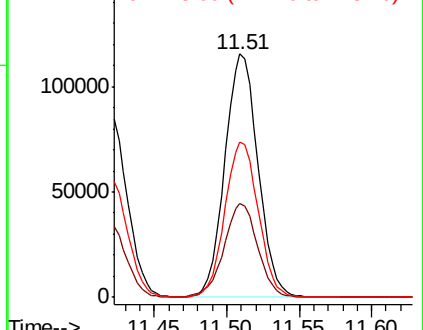
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 38.7  | 26.9  | 49.9  |
| 148 | 63.9  | 44.6  | 82.8  |



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: 98.51 ug/L

RT: 11.88 min Scan# 3512

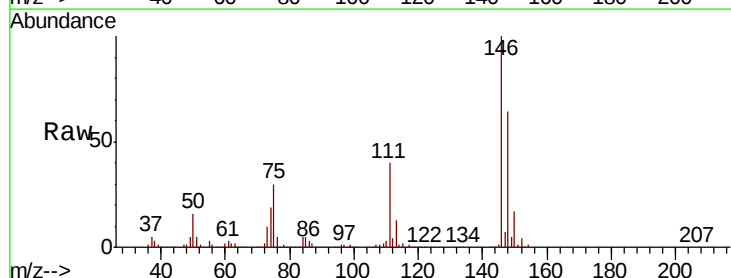
Delta R.T. -0.00 min

Lab File: VU025792.D

Acq: 02 Aug 2018 12:13

Tgt Ion:146 Resp: 563013

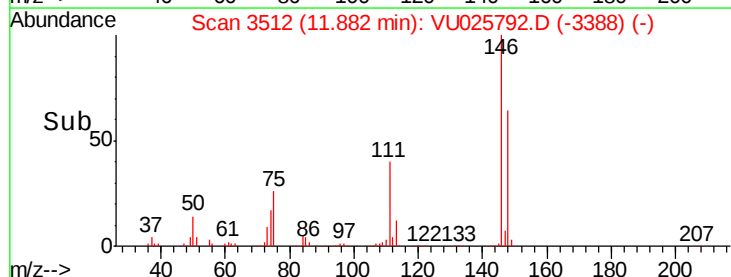
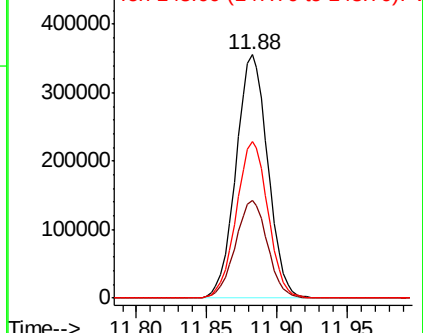
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 39.9  | 32.4  | 48.6  |
| 148 | 64.2  | 50.7  | 76.1  |

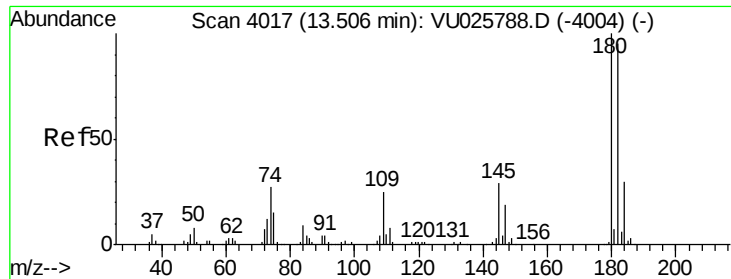


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

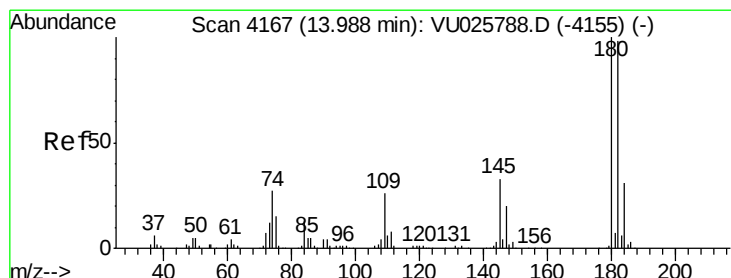
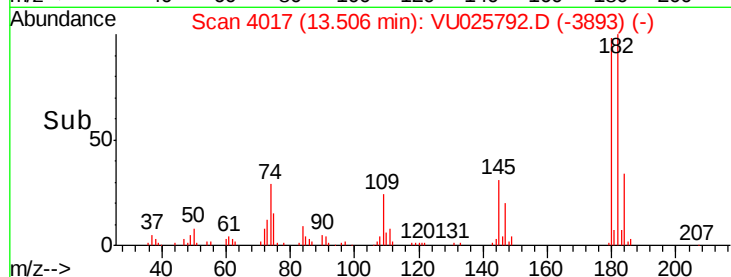
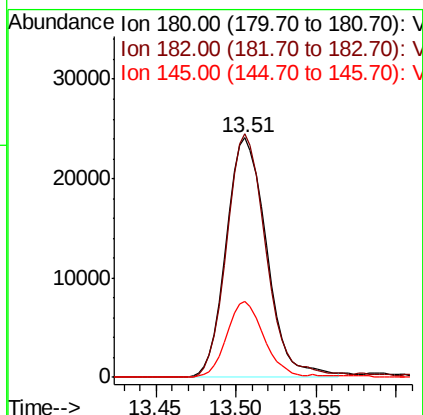
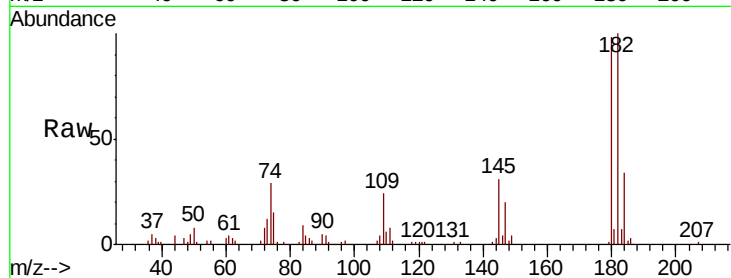




#68  
 1,2,4-trichlorobenzene  
 Concen: 11.82 ug/L  
 RT: 13.51 min Scan# 4017  
 Delta R.T. -0.00 min  
 Lab File: VU025792.D  
 Acq: 02 Aug 2018 12:13

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AB9MEDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 98.4  | 78.1  | 117.1 |
| 145     | 28.9  | 23.4  | 35.2  |



#70  
 1,2,3-Trichlorobenzene  
 Concen: 4.78 ug/L  
 RT: 13.99 min Scan# 4168  
 Delta R.T. 0.00 min  
 Lab File: VU025792.D  
 Acq: 02 Aug 2018 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.1  | 76.6  | 114.8 |
| 145     | 33.1  | 25.4  | 38.2  |

