

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110719\  
 Data File : VU035674.D  
 Acq On : 07 Nov 2019 20:54  
 Operator : JC/SP  
 Sample : K5739-03  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0CR1

Quant Time: Nov 08 07:20:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM103119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 08 06:13:27 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 701759   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 687029   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 236609   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.62    | 65    | 273263   | 48.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 96.42%  |
| 7) Chloroethane-d5             | 1.94    | 69    | 228767   | 50.54    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 101.08% |
| 11) 1,1-Dichloroethene-d2      | 2.60    | 63    | 325922   | 36.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 73.96%  |
| 21) 2-Butanone-d5              | 4.69    | 46    | 324956   | 98.15    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 98.15%  |
| 24) Chloroform-d               | 5.11    | 84    | 428507   | 48.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.90%  |
| 26) 1,2-Dichloroethane-d4      | 5.75    | 65    | 268589   | 50.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.18% |
| 32) Benzene-d6                 | 5.77    | 84    | 916915   | 51.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.40% |
| 36) 1,2-Dichloropropane-d6     | 6.74    | 67    | 298157   | 51.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 102.68% |
| 41) Toluene-d8                 | 7.93    | 98    | 835483   | 49.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.92%  |
| 43) trans-1,3-Dichloropropene- | 8.21    | 79    | 129122   | 48.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.54%  |
| 47) 2-Hexanone-d5              | 8.68    | 63    | 212717   | 95.57    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 95.57%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79   | 84    | 397652   | 48.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.30%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22   | 152   | 260353   | 54.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 109.10% |

## Target Compounds

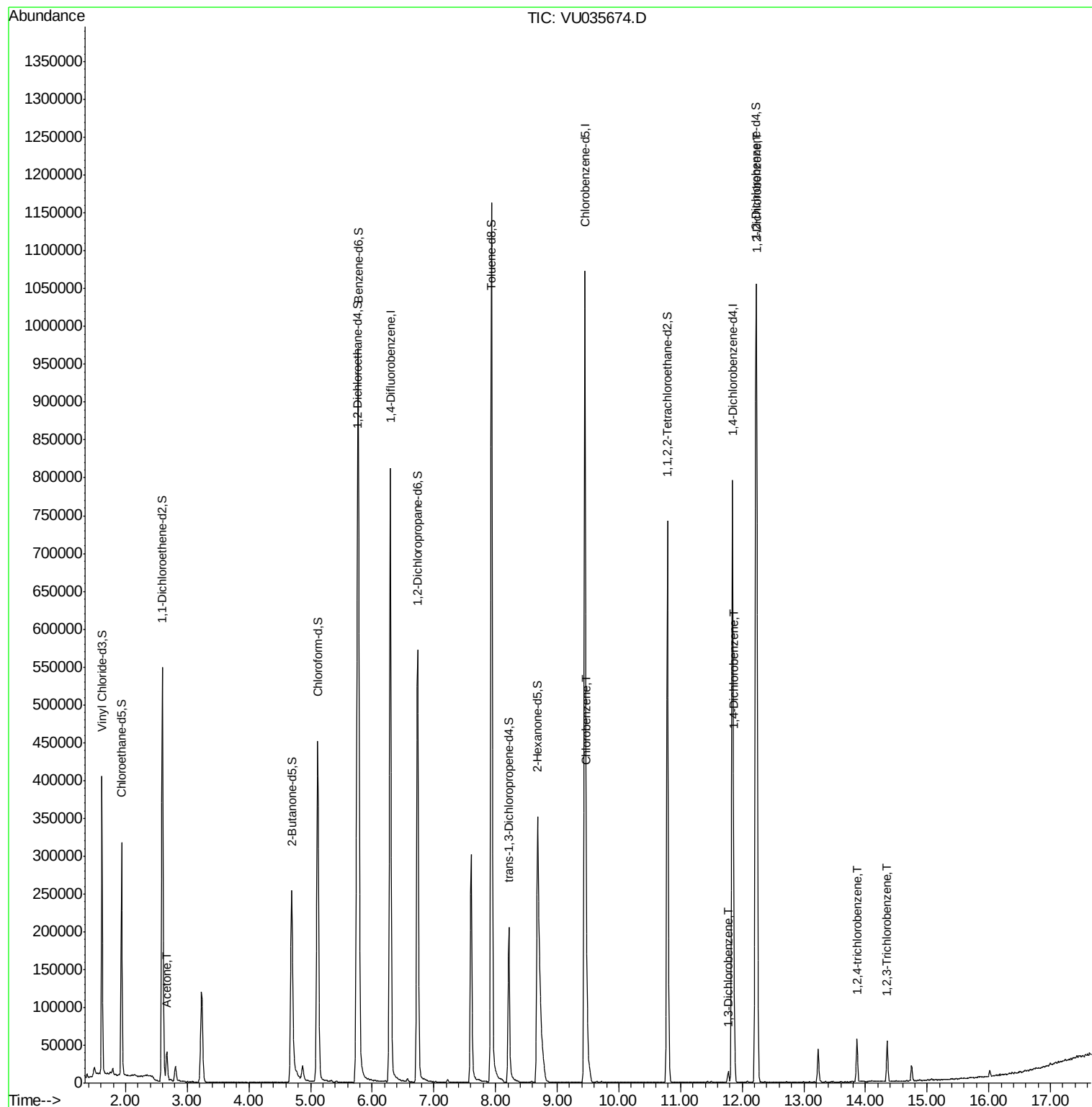
|                            |       |     |        |        | Ovalue  |
|----------------------------|-------|-----|--------|--------|---------|
| 13) Acetone                | 2.67  | 43  | 41181  | 14.138 | ug/L 97 |
| 51) Chlorobenzene          | 9.48  | 112 | 60161  | 4.453  | ug/L 96 |
| 62) 1,3-Dichlorobenzene    | 11.77 | 146 | 7464   | 1.000  | ug/L 94 |
| 63) 1,4-Dichlorobenzene    | 11.87 | 146 | 55763  | 7.354  | ug/L 98 |
| 65) 1,2-Dichlorobenzene    | 12.24 | 146 | 284244 | 37.405 | ug/L 99 |
| 68) 1,2,4-trichlorobenzene | 13.86 | 180 | 19765  | 6.842  | ug/L 96 |
| 70) 1,2,3-Trichlorobenzene | 14.35 | 180 | 17325  | 5.566  | ug/L 99 |

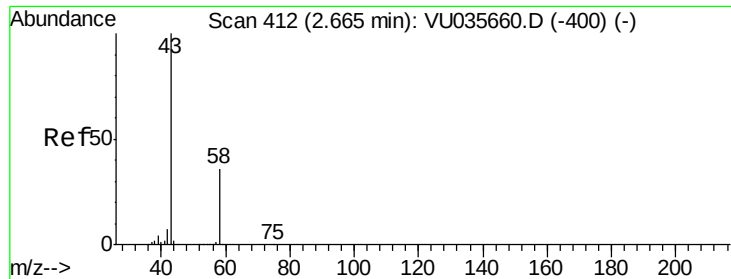
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM103119WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Nov 08 06:13:27 2019  
Response via : Initial Calibration





#13

Acetone

Concen: 14.138 ug/L

RT: 2.67 min Scan# 413

Delta R.T. 0.00 min

Lab File: VU035674.D

Acq: 07 Nov 2019 20:54

Instrument :

MSVOA\_U

ClientSampled :

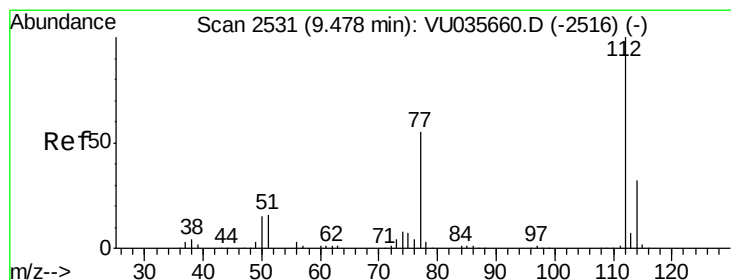
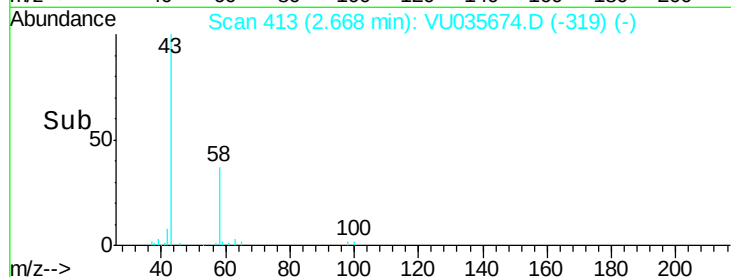
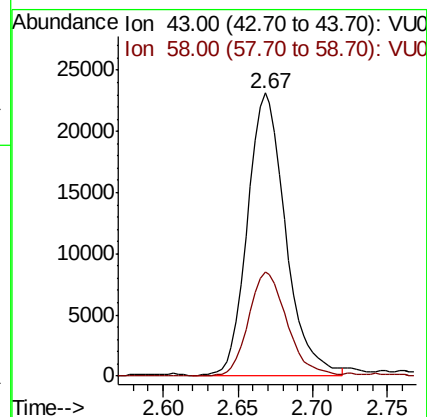
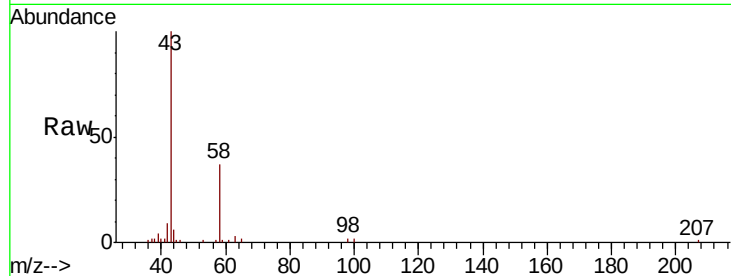
C0CR1

Tot Ion: 43 Resp: 41181

Ion Ratio Lower Upper

43 100

58 36.9 0.0 70.0



#51

Chlorobenzene

Concen: 4.453 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU035674.D

Acq: 07 Nov 2019 20:54

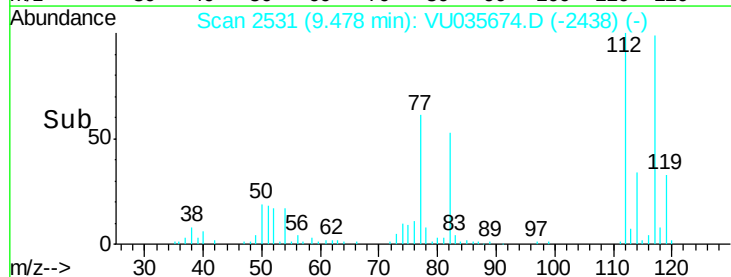
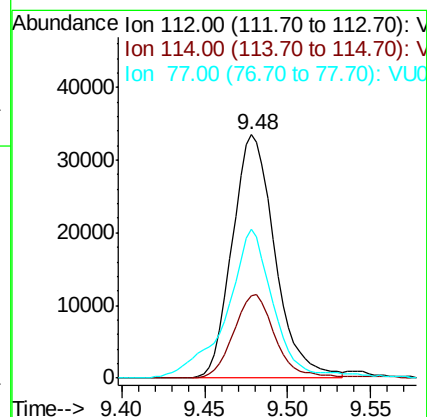
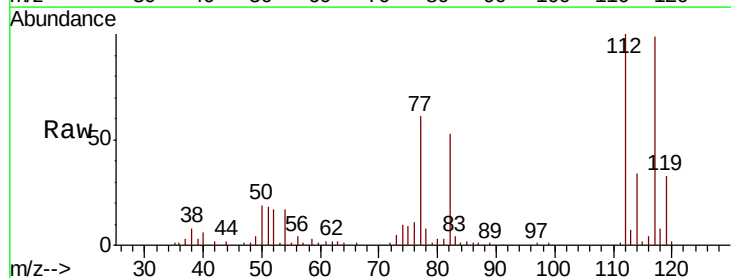
Tgt Ion: 112 Resp: 60161

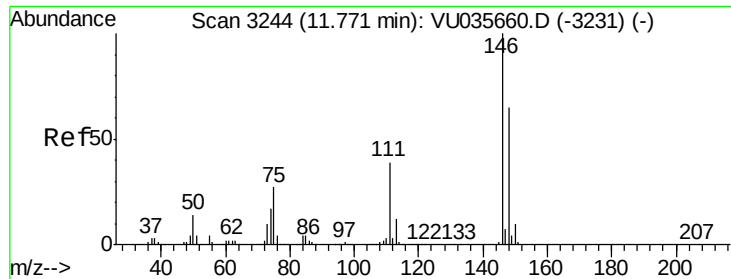
Ion Ratio Lower Upper

112 100

114 33.8 22.7 42.3

77 61.3 45.9 68.9

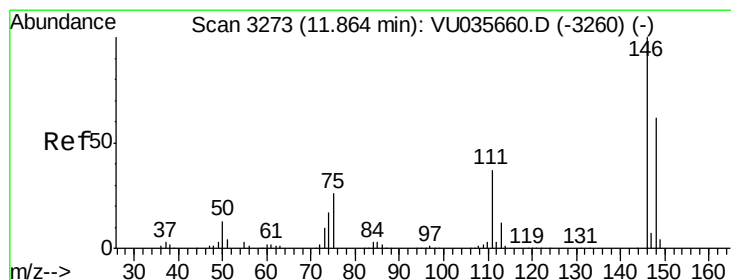
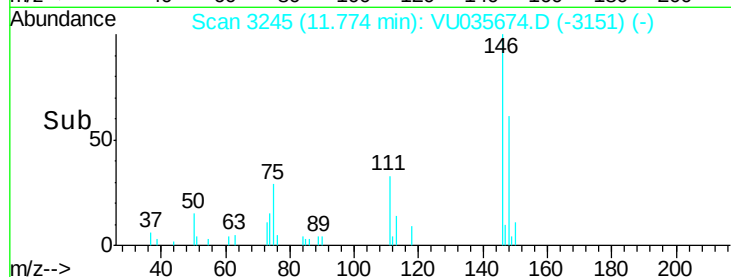
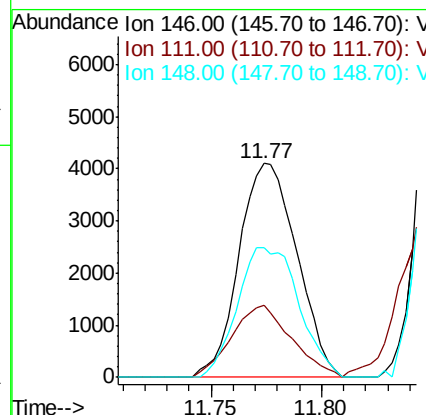
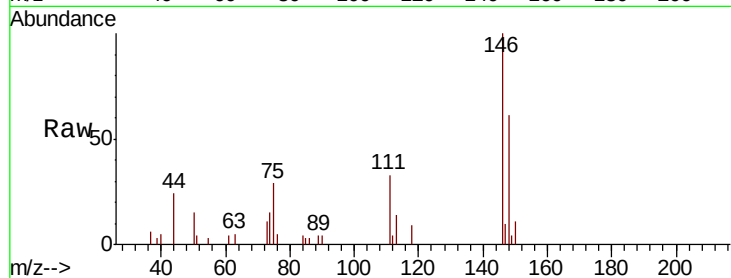




#62  
 1,3-Dichlorobenzene  
 Concen: 1.000 ug/L  
 RT: 11.77 min Scan# 3245  
 Delta R.T. 0.00 min  
 Lab File: VU035674.D  
 Acq: 07 Nov 2019 20:54

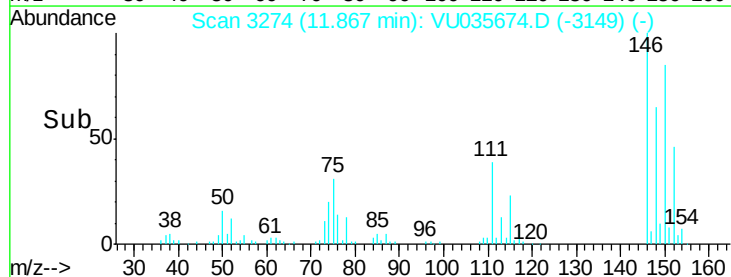
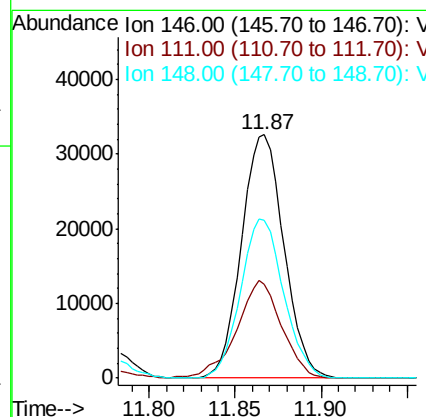
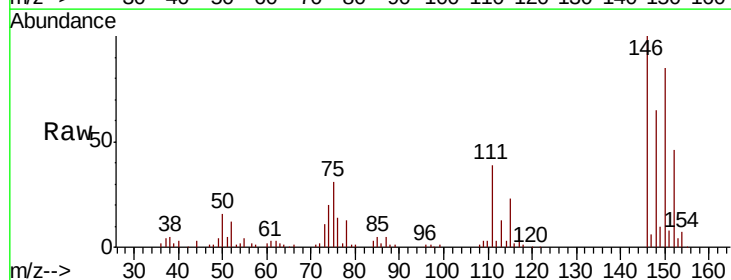
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0CR1

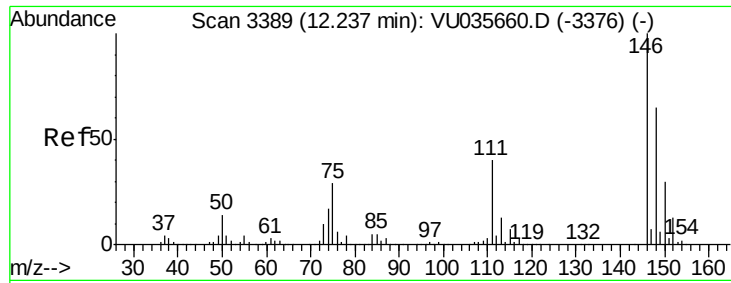
Tot Ion:146 Resp: 7464  
 Ion Ratio Lower Upper  
 146 100  
 111 33.5 27.8 51.6  
 148 60.8 44.5 82.7



#63  
 1,4-Dichlorobenzene  
 Concen: 7.354 ug/L  
 RT: 11.87 min Scan# 3274  
 Delta R.T. 0.00 min  
 Lab File: VU035674.D  
 Acq: 07 Nov 2019 20:54

Tgt Ion:146 Resp: 55763  
 Ion Ratio Lower Upper  
 146 100  
 111 38.8 26.5 49.1  
 148 65.1 44.4 82.5

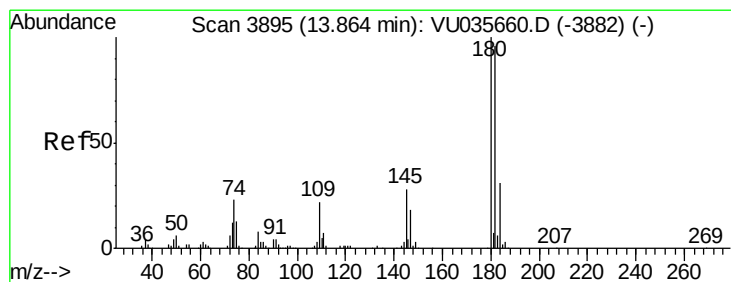
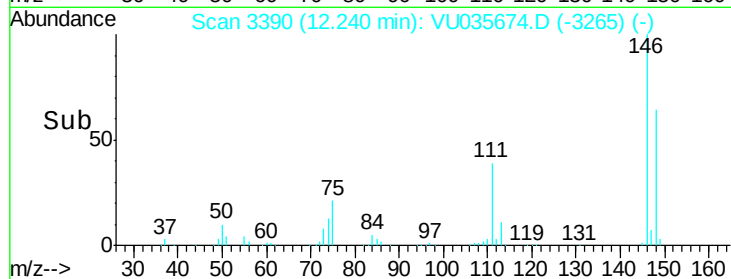
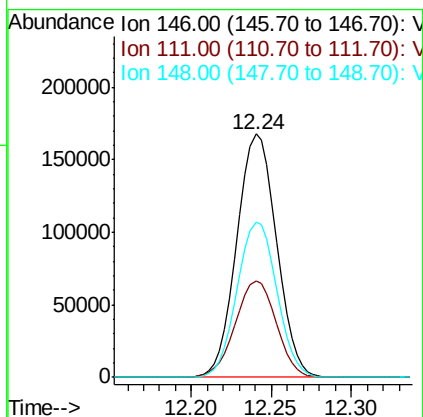
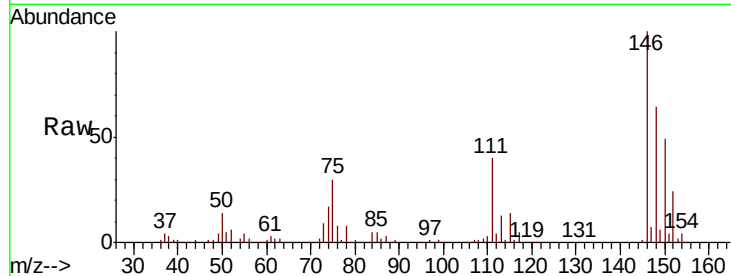




#65  
 1,2-Dichlorobenzene  
 Concen: 37.405 ug/L  
 RT: 12.24 min Scan# 3390  
 Delta R.T. 0.00 min  
 Lab File: VU035674.D  
 Acq: 07 Nov 2019 20:54

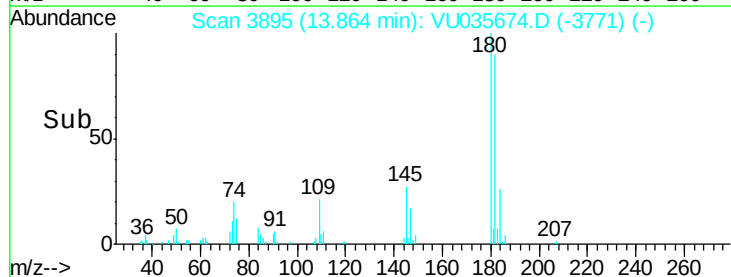
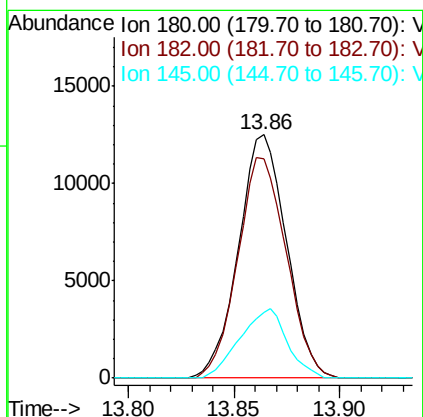
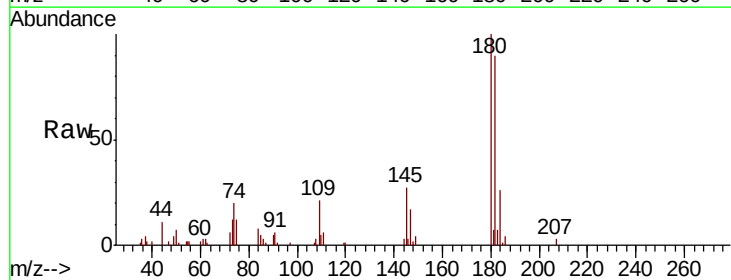
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 C0CR1

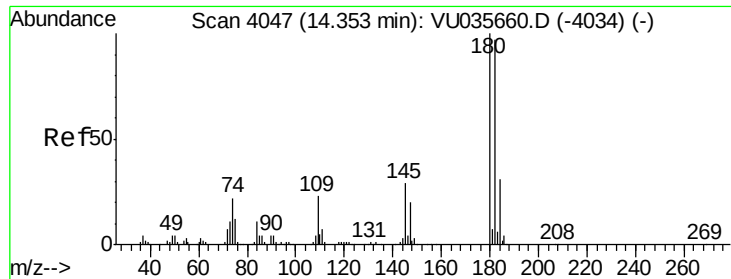
Tot Ion:146 Resp: 284244  
 Ion Ratio Lower Upper  
 146 100  
 111 39.8 32.4 48.6  
 148 63.8 51.8 77.6



#68  
 1,2,4-trichlorobenzene  
 Concen: 6.842 ug/L  
 RT: 13.86 min Scan# 3895  
 Delta R.T. -0.00 min  
 Lab File: VU035674.D  
 Acq: 07 Nov 2019 20:54

Tgt Ion:180 Resp: 19765  
 Ion Ratio Lower Upper  
 180 100  
 182 91.7 76.6 115.0  
 145 28.0 21.9 32.9

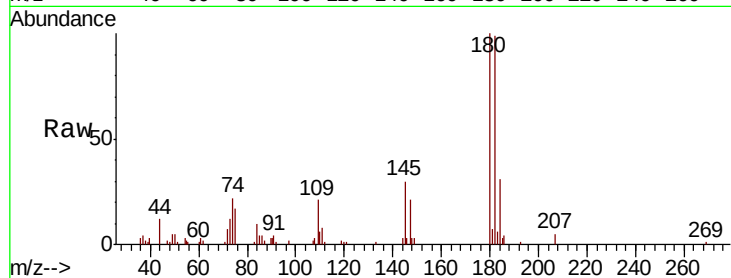




#70  
 1,2,3-Trichlorobenzene  
 Concen: 5.566 ug/L  
 RT: 14.35 min Scan# 4047  
 Delta R.T. -0.00 min  
 Lab File: VU035674.D  
 Acq: 07 Nov 2019 20:54

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0CR1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 96.6  | 77.6  | 116.4 |
| 145     | 29.7  | 23.4  | 35.0  |



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

