

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU103119\  
 Data File : VU035574.D  
 Acq On : 30 Oct 2019 20:34  
 Operator : JC/SP  
 Sample : K5559-03  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0CP8

Quant Time: Oct 31 00:56:30 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM103119WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 31 00:14:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 679621   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 662225   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 245372   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.62    | 65    | 221742   | 40.40    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 80.80% |
| 7) Chloroethane-d5             | 1.93    | 69    | 190750   | 43.51    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 87.02% |
| 11) 1,1-Dichloroethene-d2      | 2.60    | 63    | 277821   | 32.54    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 65.08% |
| 21) 2-Butanone-d5              | 4.70    | 46    | 303070   | 94.52    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 94.52% |
| 24) Chloroform-d               | 5.11    | 84    | 382423   | 45.11    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.22% |
| 26) 1,2-Dichloroethane-d4      | 5.75    | 65    | 238867   | 46.00    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.00% |
| 32) Benzene-d6                 | 5.78    | 84    | 809720   | 46.91    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.82% |
| 36) 1,2-Dichloropropane-d6     | 6.74    | 67    | 268813   | 48.02    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 96.04% |
| 41) Toluene-d8                 | 7.93    | 98    | 738846   | 45.38    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 90.76% |
| 43) trans-1,3-Dichloropropene- | 8.22    | 79    | 111423   | 43.21    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 86.42% |
| 47) 2-Hexanone-d5              | 8.68    | 63    | 190680   | 88.88    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 88.88% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.79   | 84    | 355142   | 44.61    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 89.22% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22   | 152   | 242079   | 48.91    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.82% |

## Target Compounds

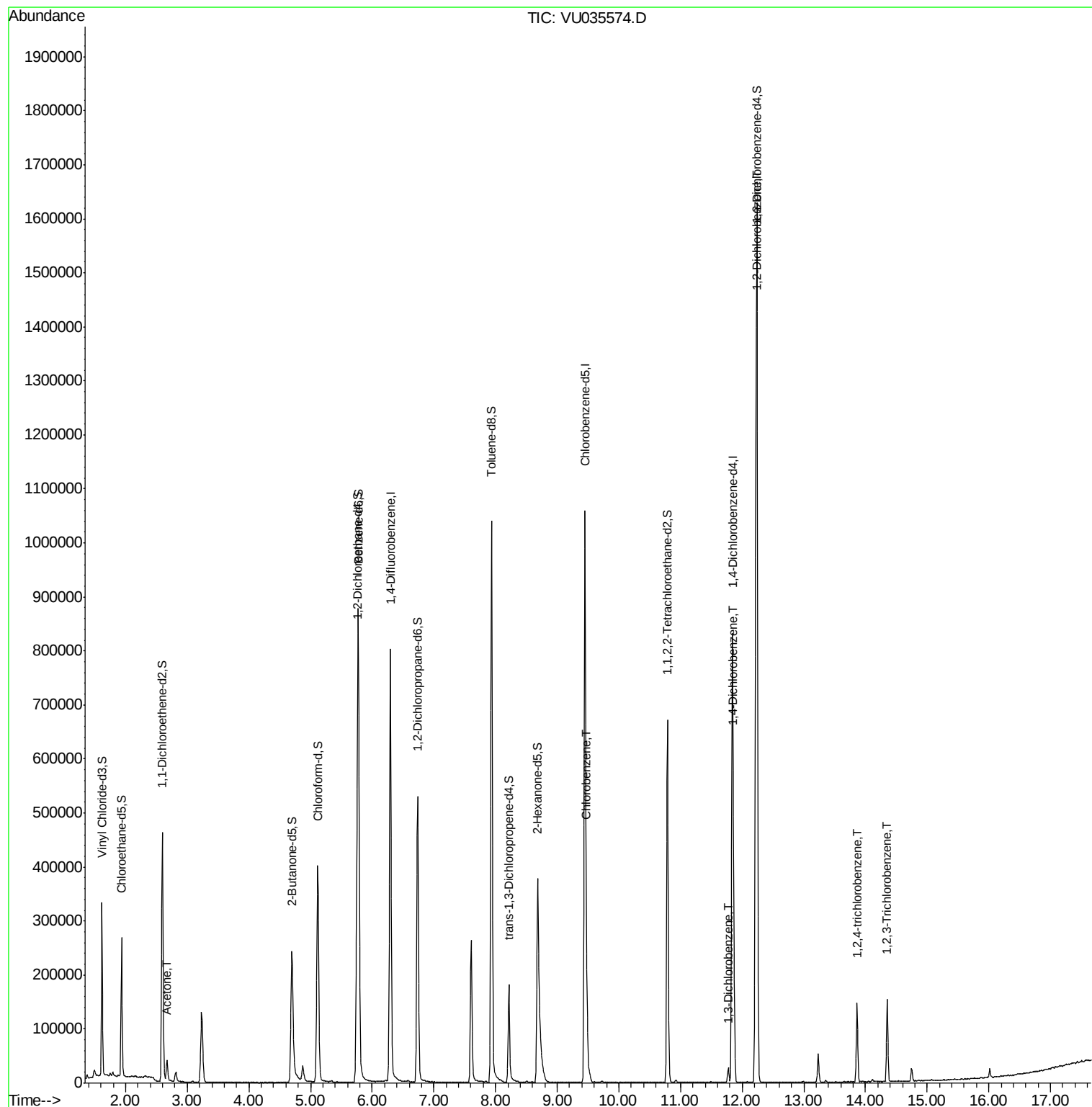
|                            |       |     |        |        | Ovalue  |
|----------------------------|-------|-----|--------|--------|---------|
| 13) Acetone                | 2.67  | 43  | 43845  | 15.542 | ug/L 99 |
| 51) Chlorobenzene          | 9.48  | 112 | 84445  | 6.485  | ug/L 99 |
| 62) 1,3-Dichlorobenzene    | 11.77 | 146 | 12878  | 1.664  | ug/L 96 |
| 63) 1,4-Dichlorobenzene    | 11.86 | 146 | 99532  | 12.657 | ug/L 98 |
| 65) 1,2-Dichlorobenzene    | 12.24 | 146 | 608783 | 77.252 | ug/L 99 |
| 68) 1,2,4-trichlorobenzene | 13.86 | 180 | 47118  | 15.729 | ug/L 98 |
| 70) 1,2,3-Trichlorobenzene | 14.35 | 180 | 50884  | 15.765 | ug/L 96 |

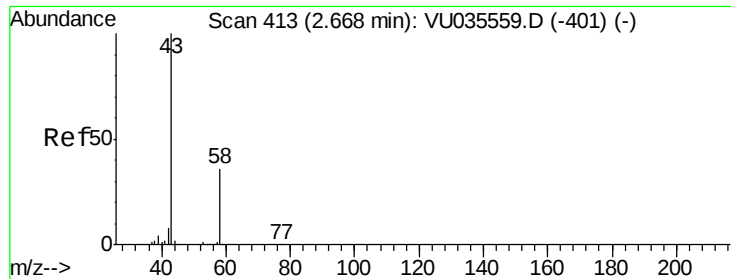
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#13

Acetone

Concen: 15.542 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

Lab File: VU035574.D

Acq: 30 Oct 2019 20:34

Instrument :

MSVOA\_U

ClientSampleId :

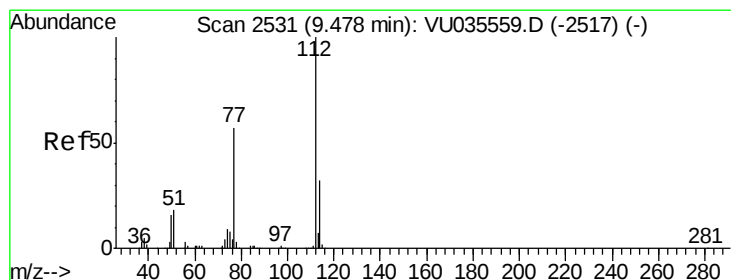
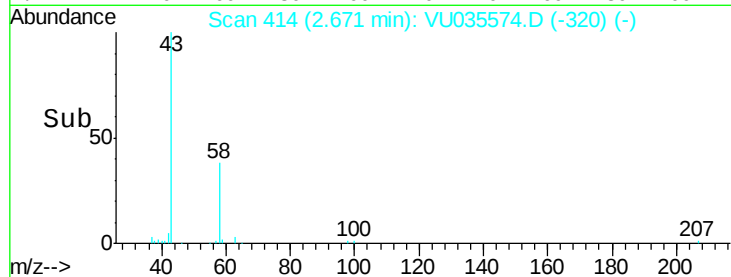
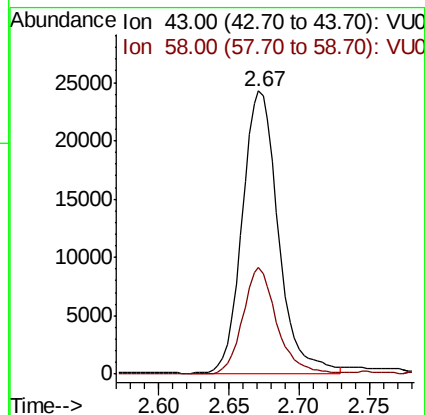
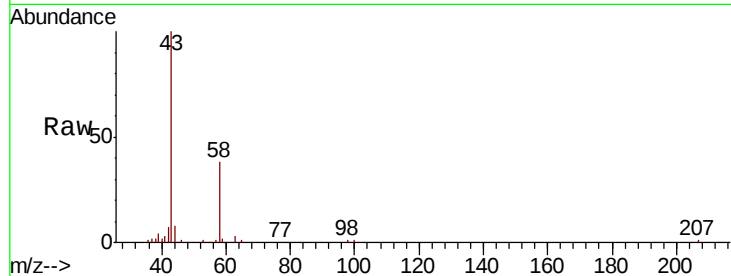
C0CP8

Tot Ion: 43 Resp: 43845

Ion Ratio Lower Upper

43 100

58 35.4 0.0 70.0



#51

Chlorobenzene

Concen: 6.485 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU035574.D

Acq: 30 Oct 2019 20:34

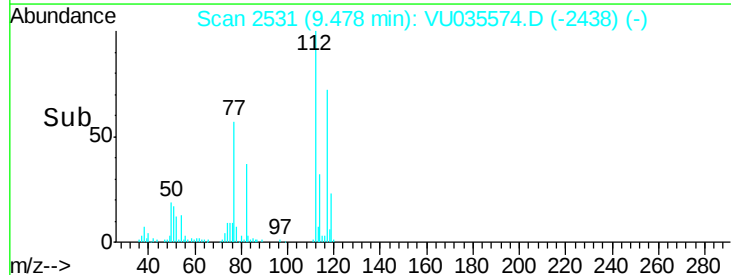
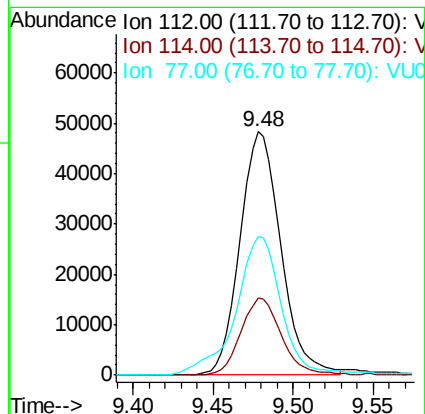
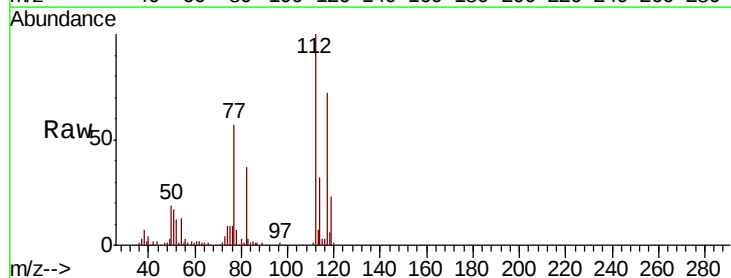
Tgt Ion: 112 Resp: 84445

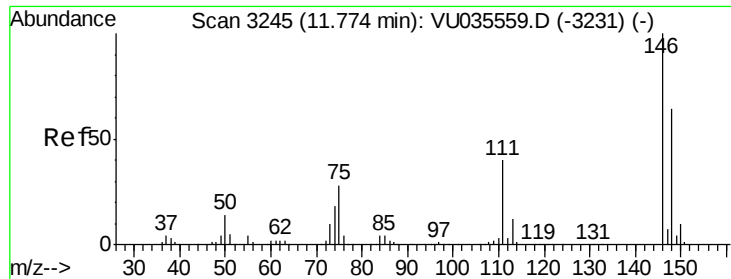
Ion Ratio Lower Upper

112 100

114 31.5 22.7 42.3

77 56.9 45.9 68.9

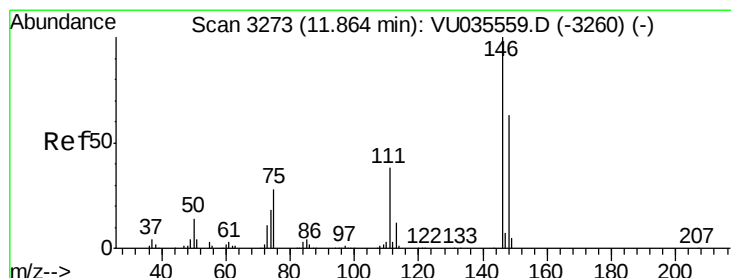
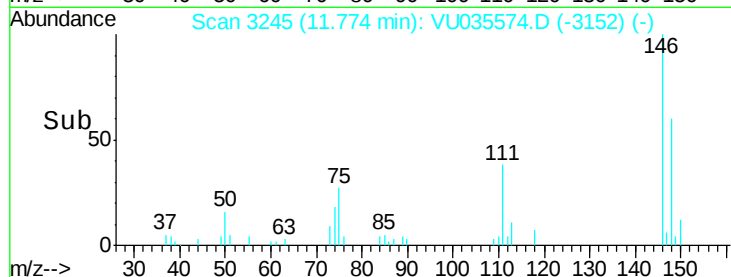
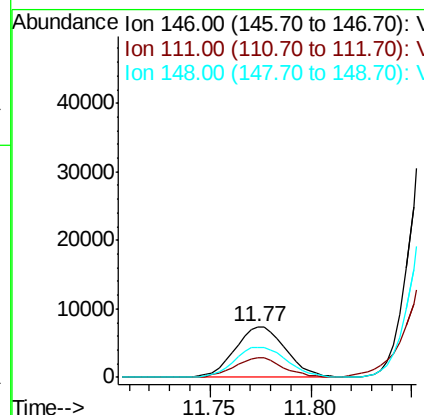
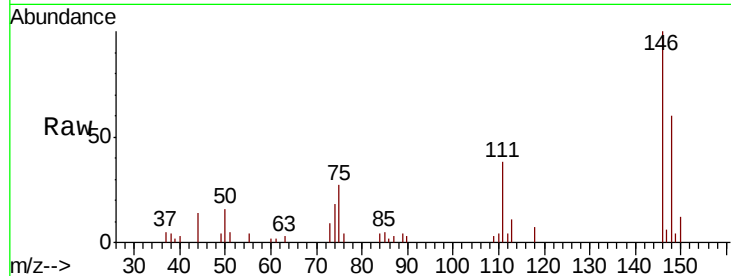




#62  
 1,3-Dichlorobenzene  
 Concen: 1.664 ug/L  
 RT: 11.77 min Scan# 3245  
 Delta R.T. -0.00 min  
 Lab File: VU035574.D  
 Acq: 30 Oct 2019 20:34

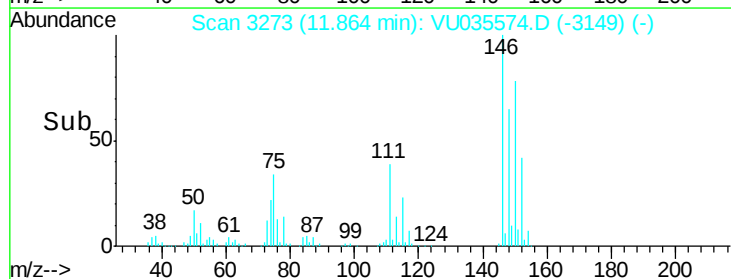
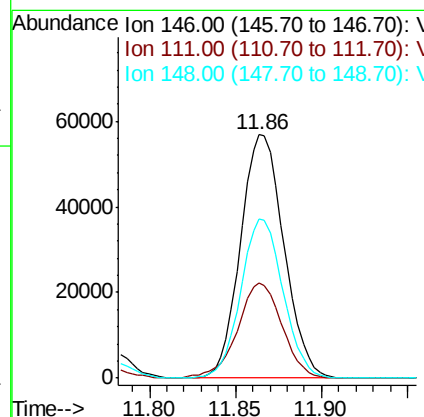
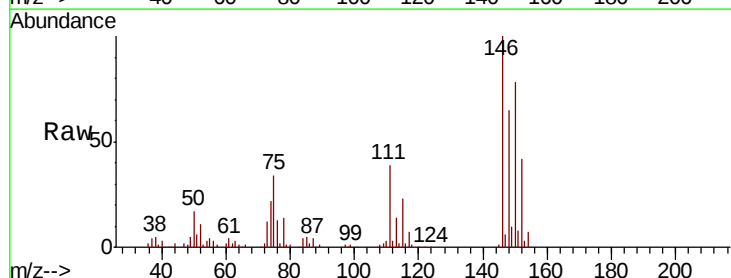
Instrument :  
 MSVOA\_U  
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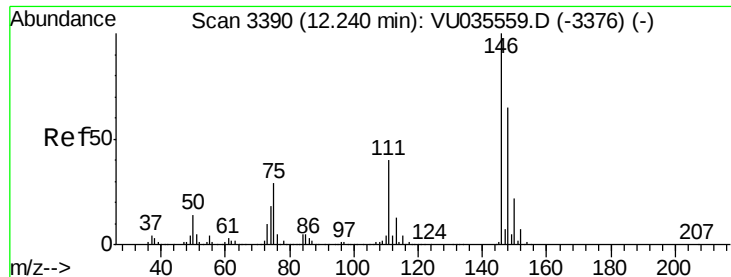
Tot Ion:146 Resp: 12878  
 Ion Ratio Lower Upper  
 146 100  
 111 37.8 27.8 51.6  
 148 60.0 44.5 82.7



#63  
 1,4-Dichlorobenzene  
 Concen: 12.657 ug/L  
 RT: 11.86 min Scan# 3273  
 Delta R.T. -0.00 min  
 Lab File: VU035574.D  
 Acq: 30 Oct 2019 20:34

Tgt Ion:146 Resp: 99532  
 Ion Ratio Lower Upper  
 146 100  
 111 39.0 26.5 49.1  
 148 65.3 44.4 82.5





#65

1,2-Dichlorobenzene

Concen: 77.252 ug/L

RT: 12.24 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VU035574.D

Acq: 30 Oct 2019 20:34

Instrument :

MSVOA\_U

ClientSampleId :

C0CP8

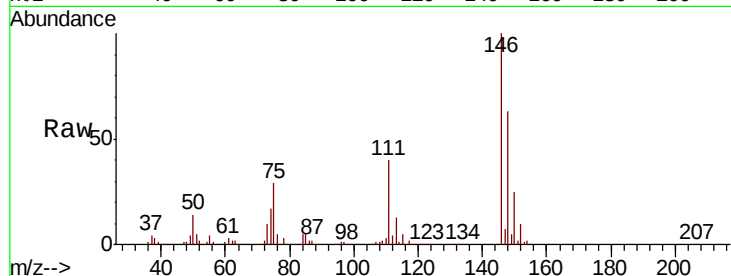
Tot Ion:146 Resp: 608783

Ion Ratio Lower Upper

146 100

111 40.1 32.4 48.6

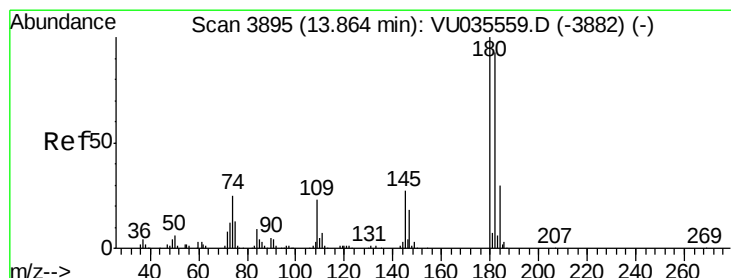
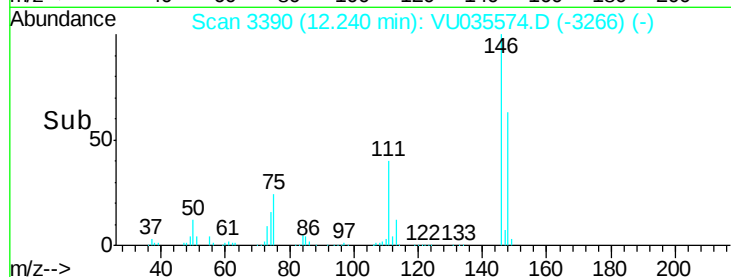
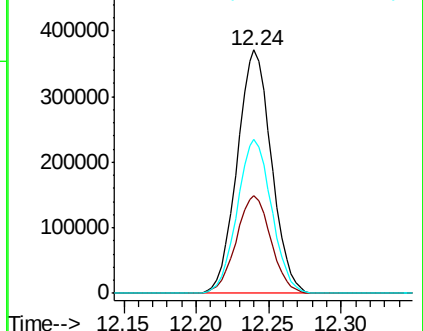
148 63.1 51.8 77.6



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: 15.729 ug/L

RT: 13.86 min Scan# 3895

Delta R.T. -0.00 min

Lab File: VU035574.D

Acq: 30 Oct 2019 20:34

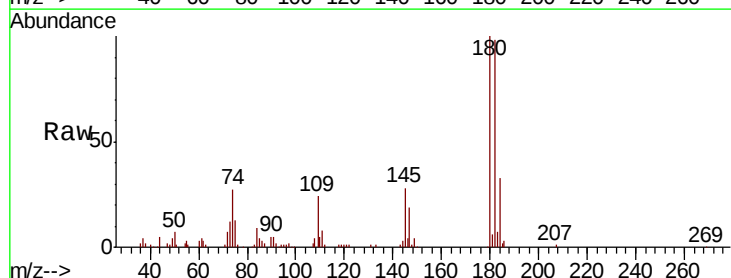
Tgt Ion:180 Resp: 47118

Ion Ratio Lower Upper

180 100

182 98.0 76.6 115.0

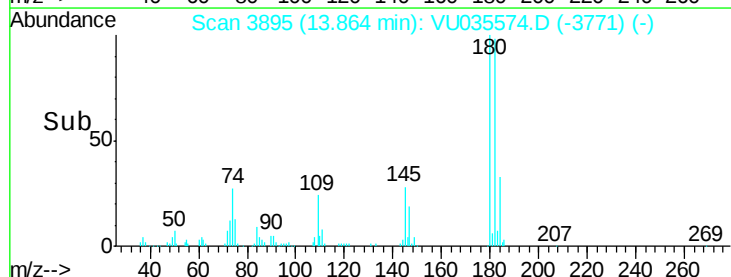
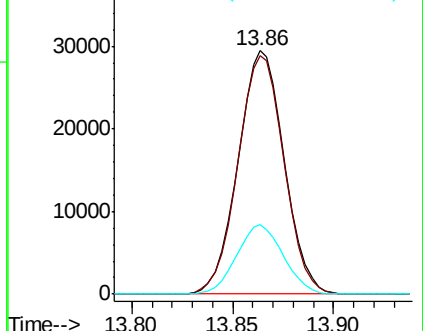
145 28.6 21.9 32.9

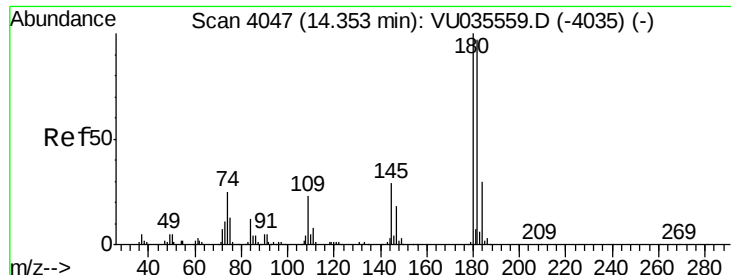


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#70

1,2,3-Trichlorobenzene

Concen: 15.765 ug/L

RT: 14.35 min Scan# 4047

Delta R.T. -0.00 min

Lab File: VU035574.D

Acq: 30 Oct 2019 20:34

Instrument :

MSVOA\_U

ClientSampleId :

C0CP8

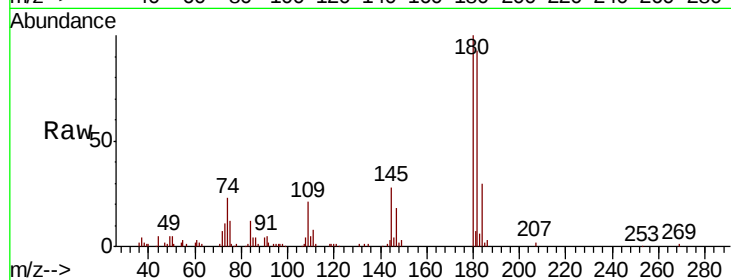
Tot Ion:180 Resp: 50884

Ion Ratio Lower Upper

180 100

182 92.6 77.6 116.4

145 27.8 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

