

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U030420\  
 Data File : VU037060.D  
 Acq On : 05 Mar 2020 00:28  
 Operator : JC/MD  
 Sample : L1780-08  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0DG4

Quant Time: Mar 05 03:51:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM022420WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Mar 05 02:52:45 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 256007   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 242800   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 86263    | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 88666    | 41.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 82.48%  |
| 7) Chloroethane-d5             | 1.92    | 69    | 85309    | 47.96    | ug/L | 0.02    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 95.92%  |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 119682   | 33.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 66.48%  |
| 21) 2-Butanone-d5              | 4.67    | 46    | 146766   | 101.77   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 101.77% |
| 24) Chloroform-d               | 5.11    | 84    | 163852   | 49.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.82%  |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 112177   | 50.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.98% |
| 32) Benzene-d6                 | 5.76    | 84    | 347701   | 49.52    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.04%  |
| 36) 1,2-Dichloropropane-d6     | 6.72    | 67    | 116307   | 51.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 102.26% |
| 41) Toluene-d8                 | 7.92    | 98    | 308565   | 47.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.74%  |
| 43) trans-1,3-Dichloropropene- | 8.20    | 79    | 46347    | 43.84    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 87.68%  |
| 47) 2-Hexanone-d5              | 8.66    | 63    | 101449   | 91.21    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 91.21%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77   | 84    | 163115   | 50.86    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 101.72% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 89155    | 52.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.74% |

## Target Compounds

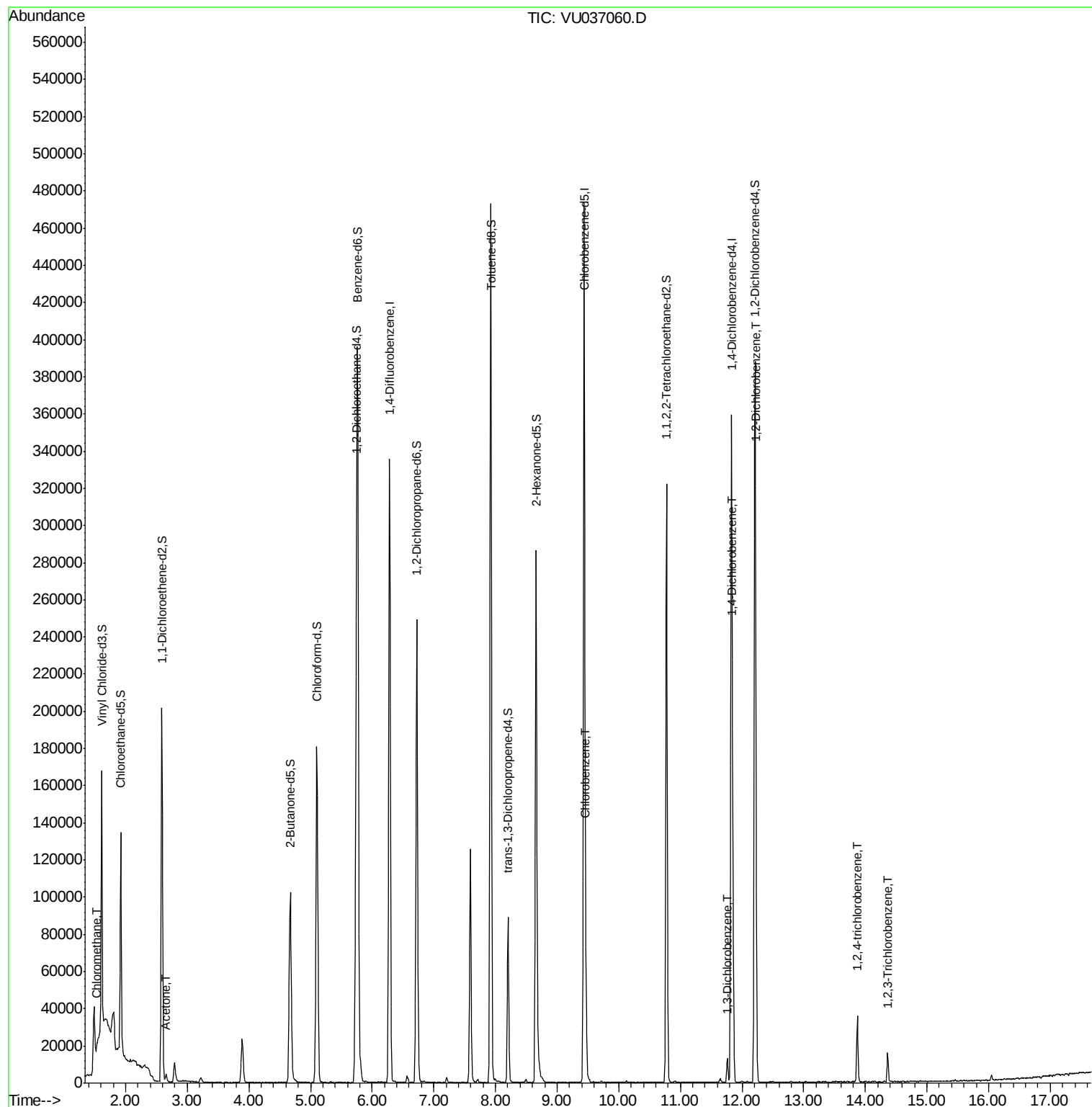
|                            |       |     |       |             | Ovalue |
|----------------------------|-------|-----|-------|-------------|--------|
| 3) Chloromethane           | 1.53  | 50  | 2028  | 0.812 ug/L  | 90     |
| 13) Acetone                | 2.65  | 43  | 3522  | 2.374 ug/L  | 93     |
| 51) Chlorobenzene          | 9.47  | 112 | 22852 | 4.719 ug/L  | 93     |
| 62) 1,3-Dichlorobenzene    | 11.76 | 146 | 5598  | 2.000 ug/L  | 94     |
| 63) 1,4-Dichlorobenzene    | 11.85 | 146 | 35222 | 12.740 ug/L | 99     |
| 65) 1,2-Dichlorobenzene    | 12.23 | 146 | 31183 | 11.160 ug/L | 98     |
| 68) 1,2,4-trichlorobenzene | 13.87 | 180 | 10458 | 7.859 ug/L  | 97     |
| 70) 1,2,3-Trichlorobenzene | 14.36 | 180 | 4803  | 3.612 ug/L  | 93     |

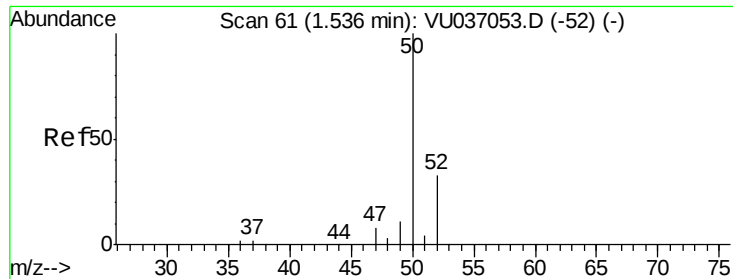
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L1780-08  
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Instrument :  
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Quant Time: Mar 05 03:51:35 2020  
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Quant Title : VOC Analysis  
QLast Update : Thu Mar 05 02:52:45 2020  
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.812 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037060.D

Acq: 05 Mar 2020 00:28

Instrument :

MSVOA\_U

ClientSampled :

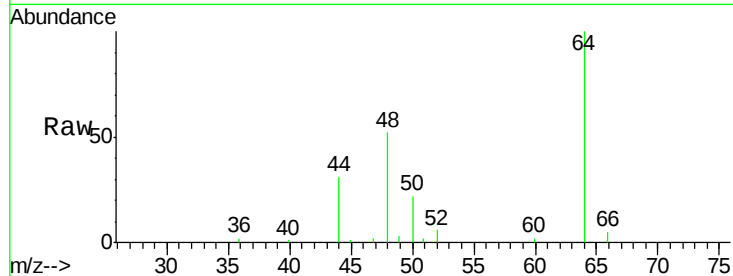
C0DG4

Tot Ion: 50 Resp: 2028

Ion Ratio Lower Upper

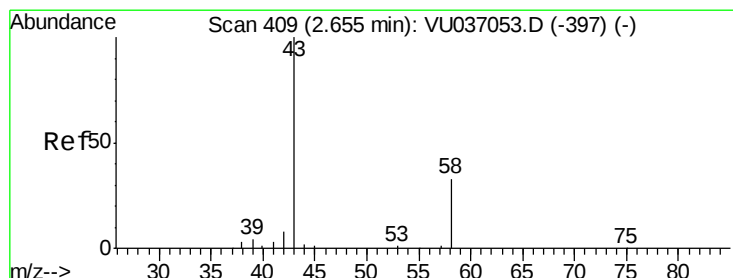
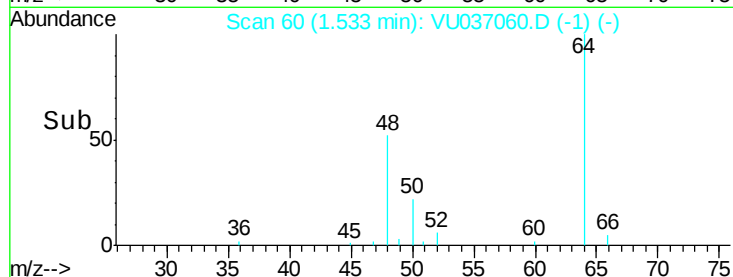
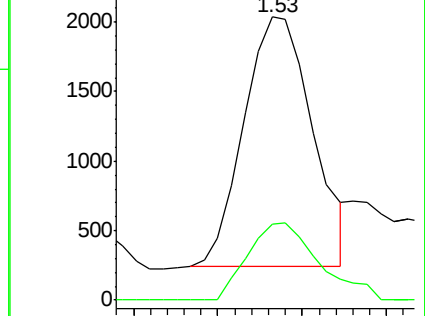
50 100

52 26.9 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#13

Acetone

Concen: 2.374 ug/L

RT: 2.65 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU037060.D

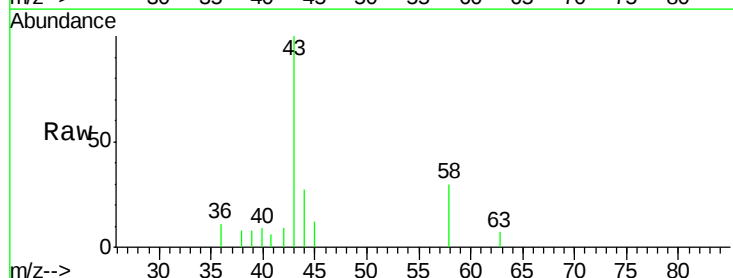
Acq: 05 Mar 2020 00:28

Tgt Ion: 43 Resp: 3522

Ion Ratio Lower Upper

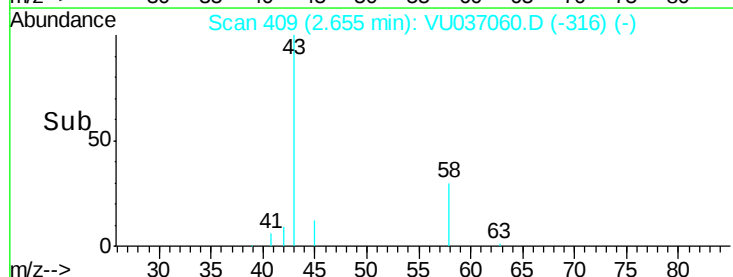
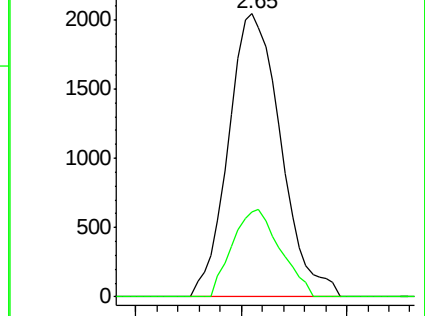
43 100

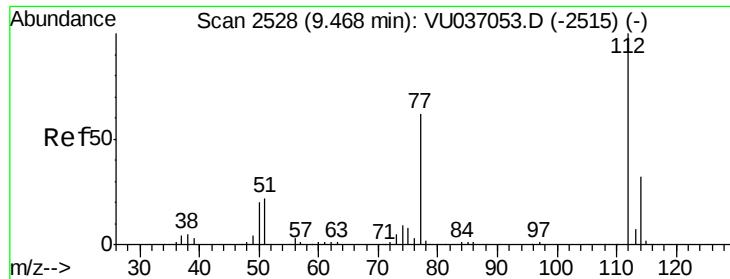
58 28.2 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#51

Chlorobenzene

Concen: 4.719 ug/L

RT: 9.47 min Scan# 2528

Delta R.T. -0.00 min

Lab File: VU037060.D

Acq: 05 Mar 2020 00:28

Instrument :

MSVOA\_U

ClientSampleId :

C0DG4

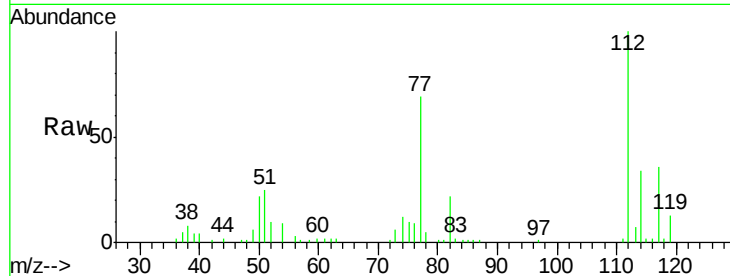
Tot Ion:112 Resp: 22852

Ion Ratio Lower Upper

112 100

114 33.8 22.3 41.5

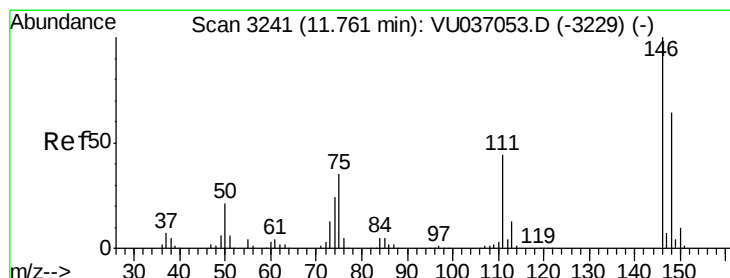
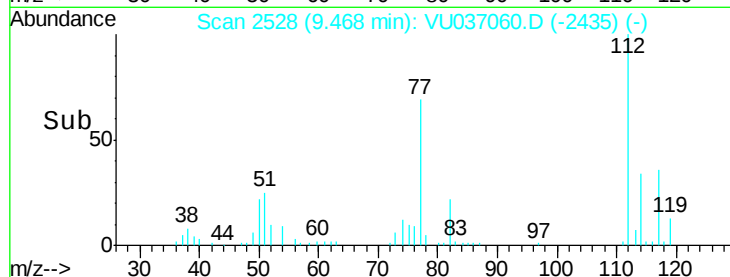
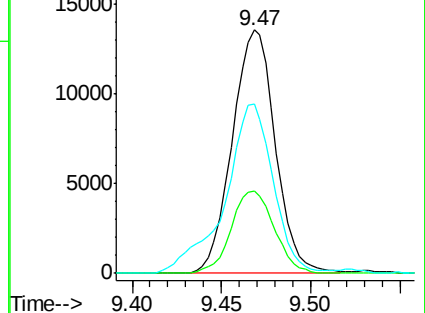
77 69.5 50.1 75.1



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: 2.000 ug/L

RT: 11.76 min Scan# 3242

Delta R.T. 0.00 min

Lab File: VU037060.D

Acq: 05 Mar 2020 00:28

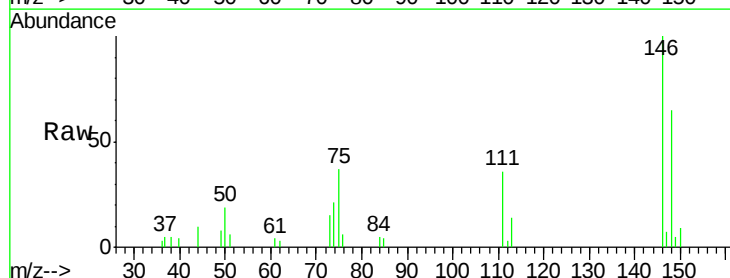
Tgt Ion:146 Resp: 5598

Ion Ratio Lower Upper

146 100

111 36.3 30.7 56.9

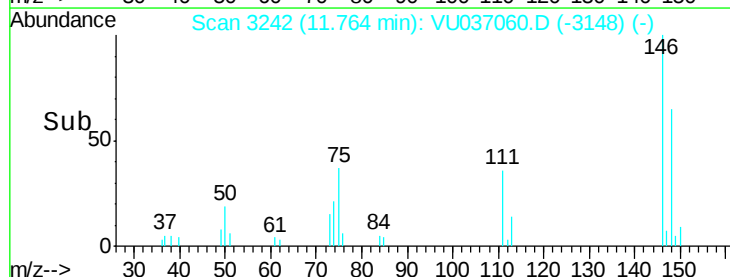
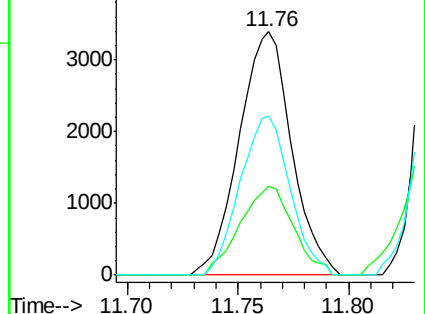
148 65.5 44.2 82.2

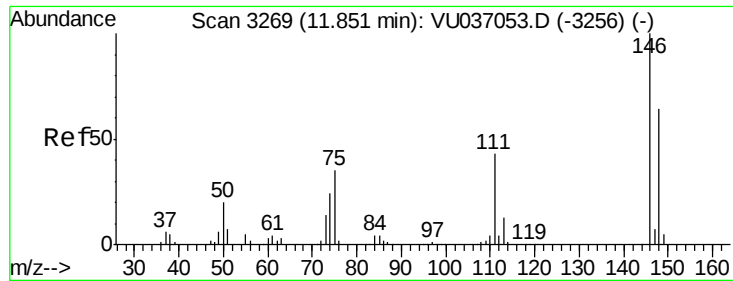


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

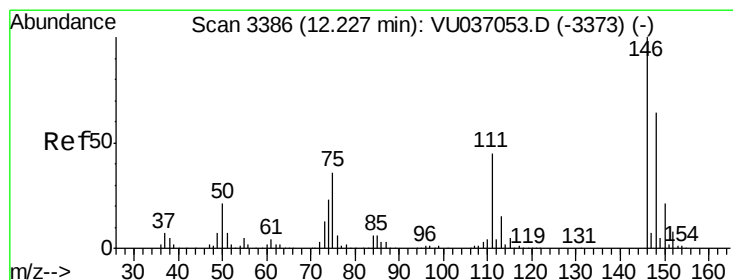
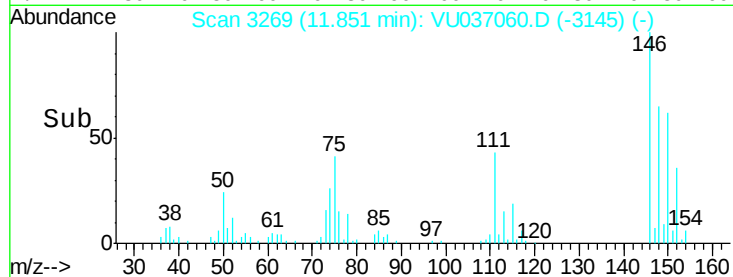
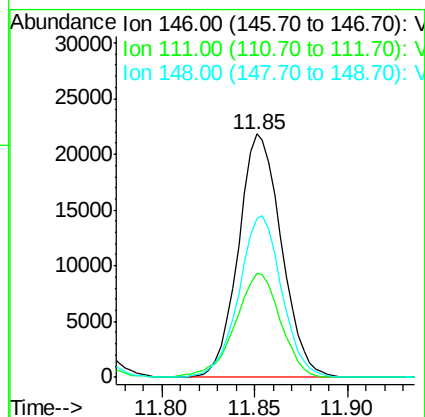
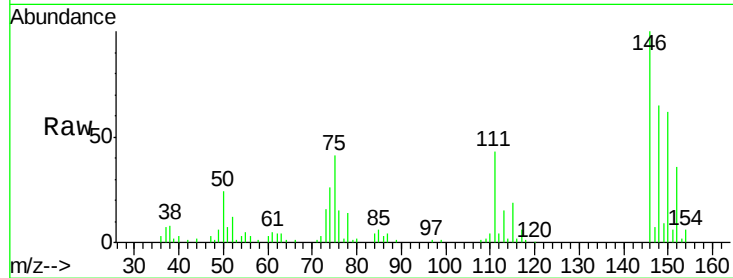




#63  
 1,4-Dichlorobenzene  
 Concen: 12.740 ug/L  
 RT: 11.85 min Scan# 3269  
 Delta R.T. -0.00 min  
 Lab File: VU037060.D  
 Acq: 05 Mar 2020 00:28

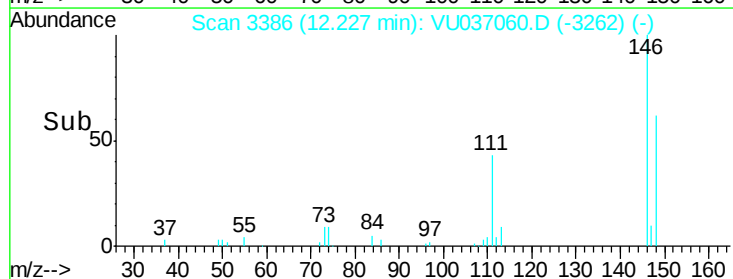
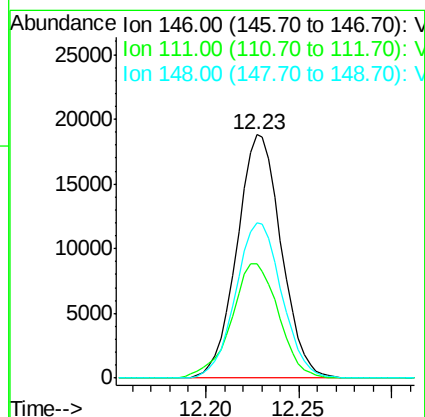
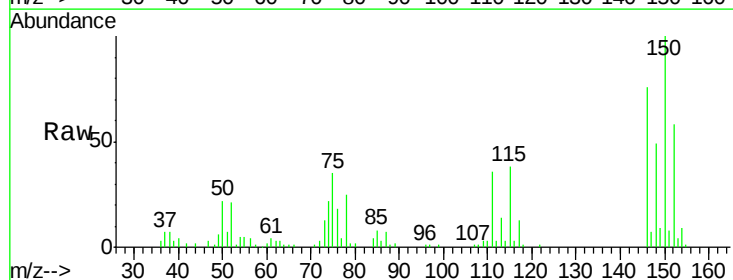
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 C0DG4

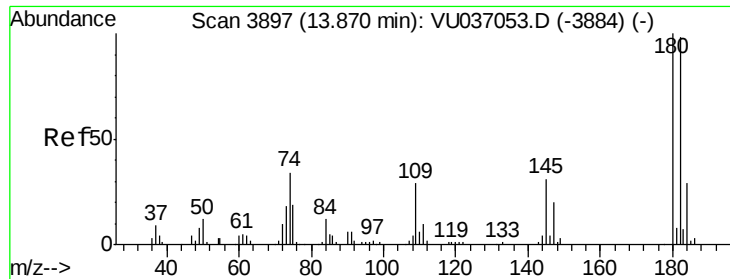
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.5  | 29.8  | 55.4  |
| 148     | 65.3  | 45.1  | 83.9  |



#65  
 1,2-Dichlorobenzene  
 Concen: 11.160 ug/L  
 RT: 12.23 min Scan# 3386  
 Delta R.T. -0.00 min  
 Lab File: VU037060.D  
 Acq: 05 Mar 2020 00:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.7  | 35.4  | 53.0  |
| 148     | 63.9  | 50.5  | 75.7  |

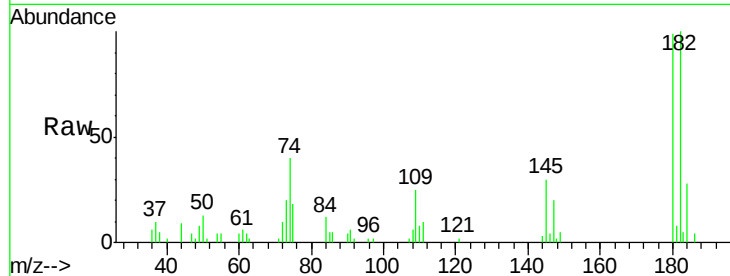




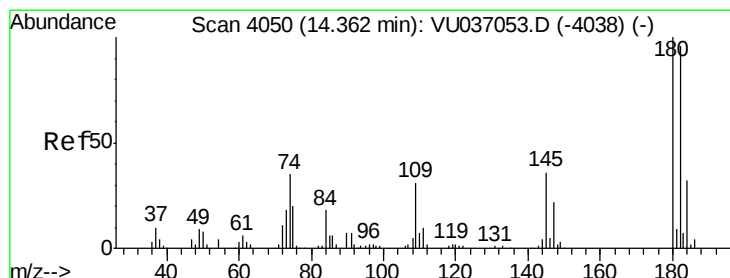
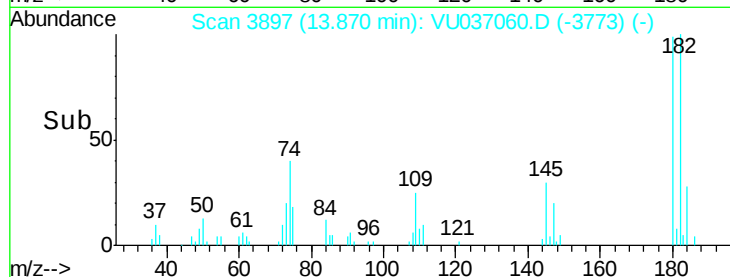
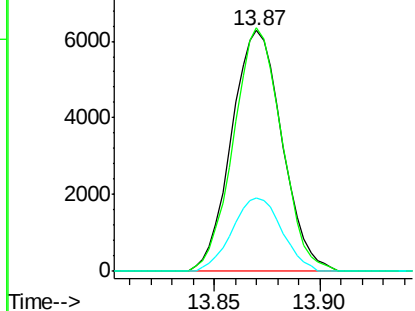
#68  
 1,2,4-trichlorobenzene  
 Concen: 7.859 ug/L  
 RT: 13.87 min Scan# 3897  
 Delta R.T. -0.00 min  
 Lab File: VU037060.D  
 Acq: 05 Mar 2020 00:28

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0DG4

Tot Ion:180 Resp: 10458  
 Ion Ratio Lower Upper  
 180 100  
 182 95.9 75.3 112.9  
 145 30.0 26.2 39.4

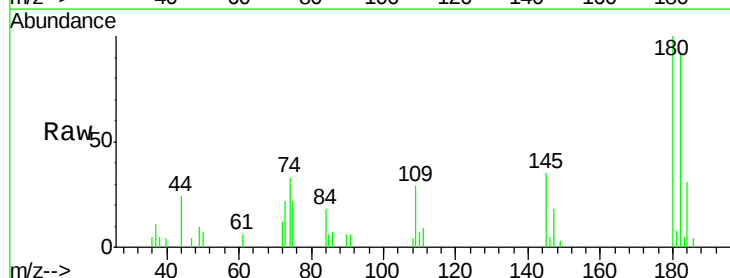


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V



#70  
 1,2,3-Trichlorobenzene  
 Concen: 3.612 ug/L  
 RT: 14.36 min Scan# 4050  
 Delta R.T. -0.00 min  
 Lab File: VU037060.D  
 Acq: 05 Mar 2020 00:28

Tgt Ion:180 Resp: 4803  
 Ion Ratio Lower Upper  
 180 100  
 182 89.6 77.0 115.6  
 145 30.7 28.1 42.1



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

