

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV031320\  
 Data File : VV014900.D  
 Acq On : 13 Mar 2020 13:11  
 Operator : SY/MD  
 Sample : L1834-16  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0DK9

Quant Time: Mar 14 05:40:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM030620WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Mar 14 03:23:14 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 397172   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 386142   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 191721   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 104609   | 38.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 77.84%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 83729    | 39.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 78.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 134918   | 30.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 60.42%  |
| 21) 2-Butanone-d5              | 3.93    | 46    | 131656   | 65.68    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 65.68%  |
| 24) Chloroform-d               | 4.38    | 84    | 232955   | 45.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.54%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 154830   | 44.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.58%  |
| 32) Benzene-d6                 | 5.08    | 84    | 468649   | 45.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.94%  |
| 36) 1,2-Dichloropropane-d6     | 6.10    | 67    | 141155   | 41.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 83.54%  |
| 41) Toluene-d8                 | 7.34    | 98    | 445730   | 44.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.28%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 64788    | 39.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 78.54%  |
| 47) 2-Hexanone-d5              | 8.12    | 63    | 124889   | 83.24    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 83.24%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 199388   | 42.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 85.78%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 190352   | 50.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.18% |

## Target Compounds

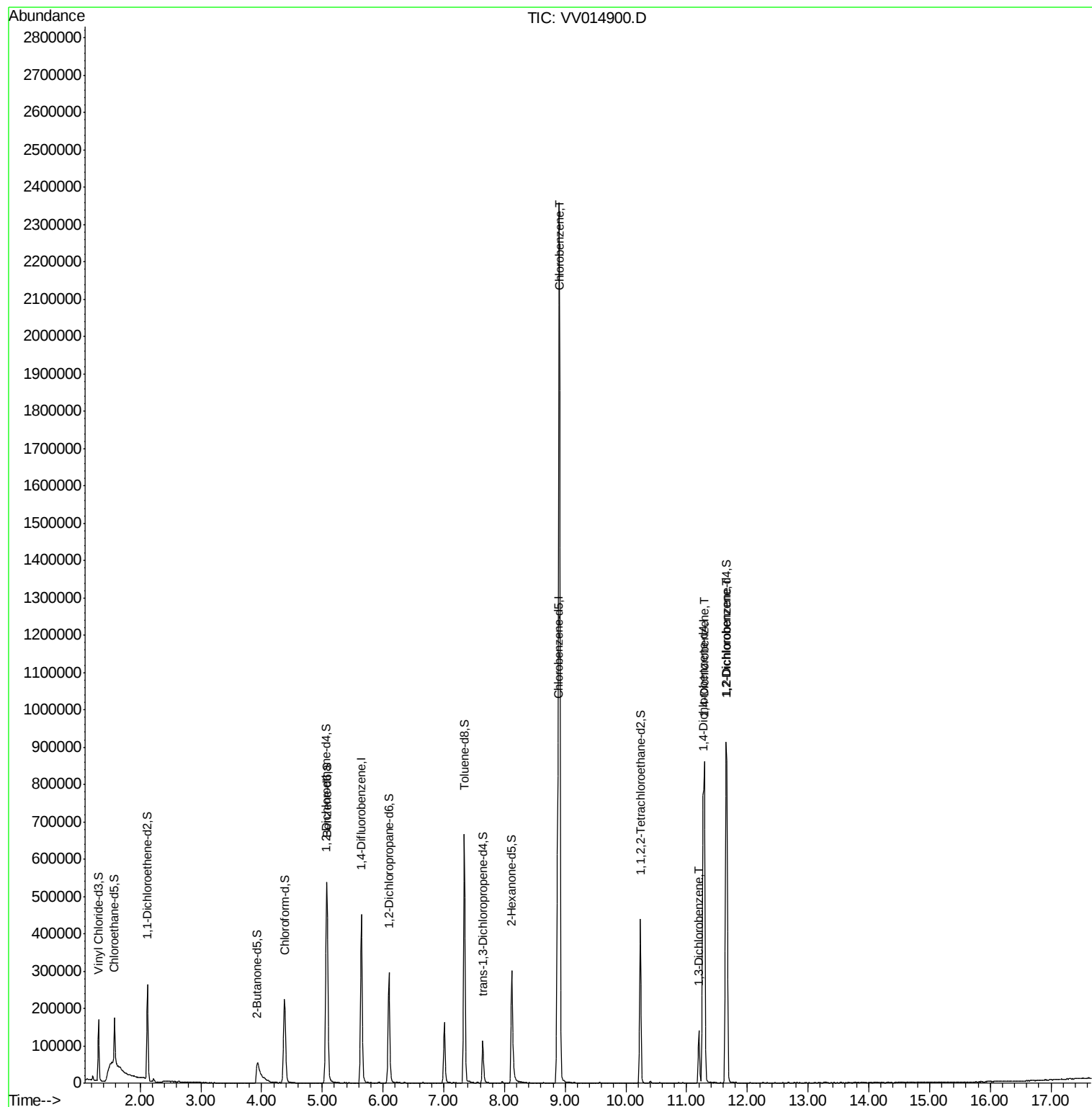
| Target Compounds        | R.T.  | QIon | Response | Conc    | Units | Ovalue |
|-------------------------|-------|------|----------|---------|-------|--------|
| 51) Chlorobenzene       | 8.90  | 112  | 1264566  | 159.252 | ug/L  | 97     |
| 62) 1,3-Dichlorobenzene | 11.20 | 146  | 57690    | 9.305   | ug/L  | 99     |
| 63) 1,4-Dichlorobenzene | 11.29 | 146  | 335771   | 53.756  | ug/L  | 99     |
| 65) 1,2-Dichlorobenzene | 11.67 | 146  | 287123   | 46.517  | ug/L  | 98     |

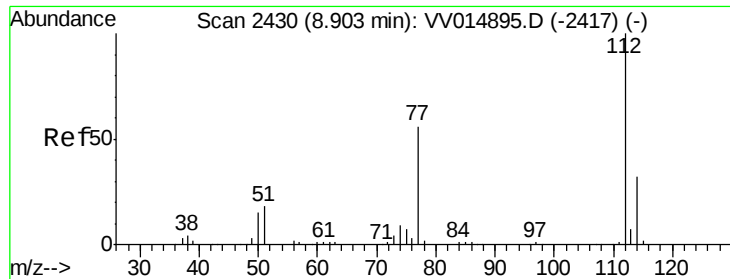
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis  
QLast Update : Sat Mar 14 03:23:14 2020  
Response via : Initial Calibration





#51

Chlorobenzene

Concen: 159.252 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV014900.D

Acq: 13 Mar 2020 13:11

Instrument :

MSVOA\_V

ClientSampleId :

C0DK9

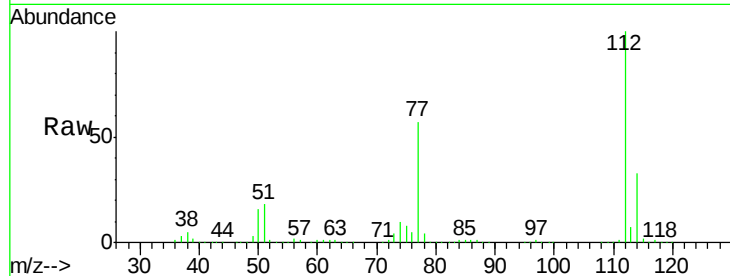
Tot Ion:112 Resp: 1264566

Ion Ratio Lower Upper

112 100

114 32.6 22.1 41.1

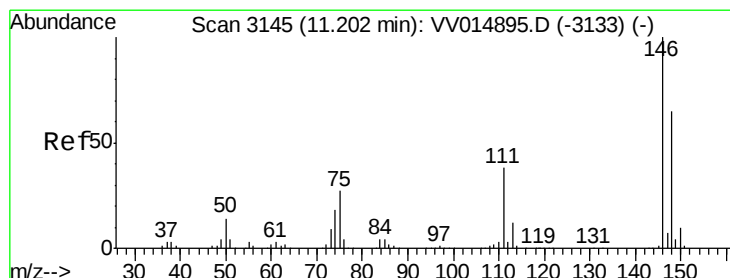
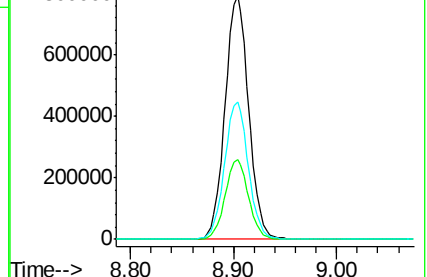
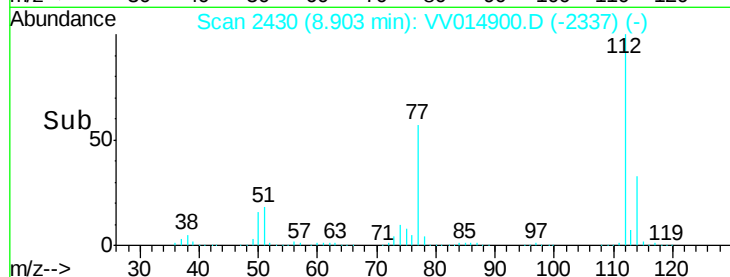
77 56.5 47.8 71.8



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): V



#62

1,3-Dichlorobenzene

Concen: 9.305 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. 0.00 min

Lab File: VV014900.D

Acq: 13 Mar 2020 13:11

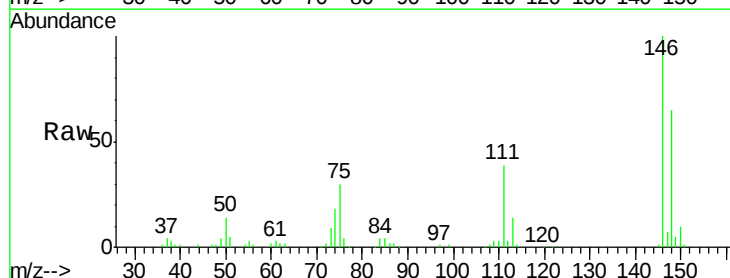
Tgt Ion:146 Resp: 57690

Ion Ratio Lower Upper

146 100

111 38.5 27.2 50.4

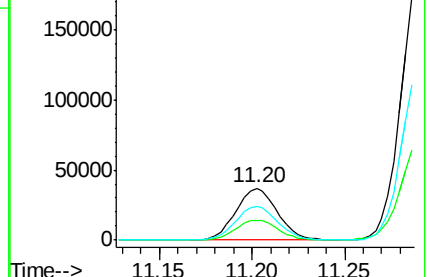
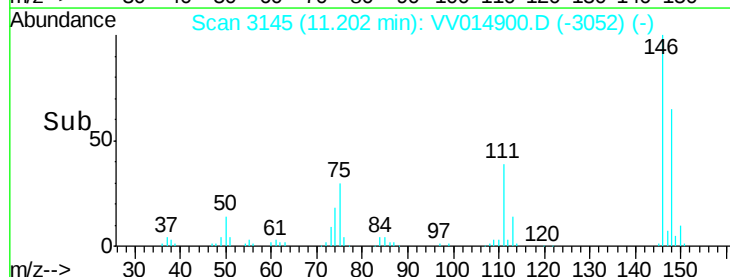
148 64.8 44.2 82.2

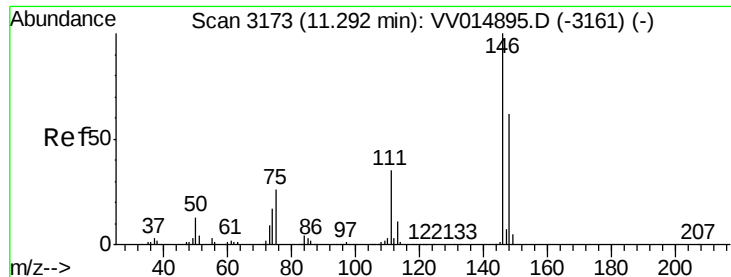


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

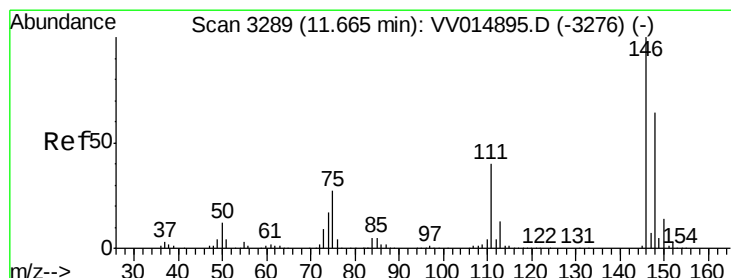
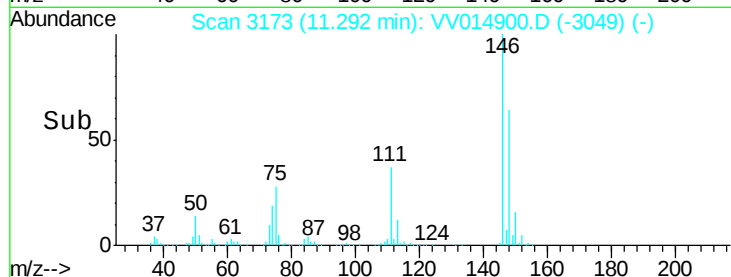
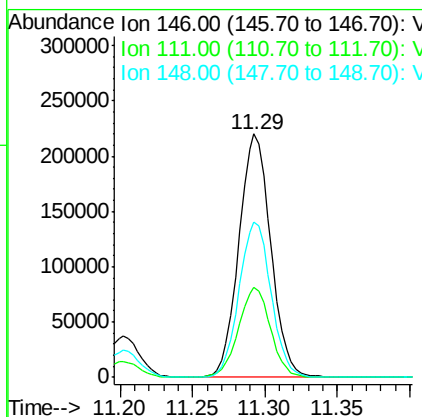
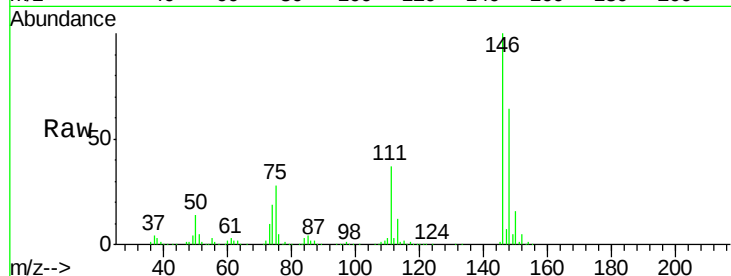




#63  
 1,4-Dichlorobenzene  
 Concen: 53.756 ug/L  
 RT: 11.29 min Scan# 3173  
 Delta R.T. 0.00 min  
 Lab File: VV014900.D  
 Acq: 13 Mar 2020 13:11

Instrument :  
 MSVOA\_V  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 36.9  | 26.3  | 48.9  |
| 148     | 63.8  | 44.0  | 81.8  |



#65  
 1,2-Dichlorobenzene  
 Concen: 46.517 ug/L  
 RT: 11.67 min Scan# 3289  
 Delta R.T. 0.00 min  
 Lab File: VV014900.D  
 Acq: 13 Mar 2020 13:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.9  | 33.9  | 50.9  |
| 148     | 63.2  | 51.4  | 77.0  |

