

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100120\  
 Data File : VV018581.D  
 Acq On : 01 Oct 2020 09:31  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05096

Quant Time: Oct 01 23:34:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 01 07:39:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 364321   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 351737   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 189853   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.31    | 65    | 78572    | 36.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 73.54%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 73479    | 41.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 83.18%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 198912   | 45.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 91.38%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 160811   | 100.90   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 100.90% |
| 24) Chloroform-d               | 4.37    | 84    | 206851   | 44.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.54%  |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 133381   | 45.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 90.94%  |
| 32) Benzene-d6                 | 5.07    | 84    | 389987   | 43.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 87.54%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 124081   | 46.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 92.18%  |
| 41) Toluene-d8                 | 7.33    | 98    | 361295   | 43.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 86.22%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 62037    | 42.66    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 85.32%  |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 105681   | 103.36   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.36% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 177087   | 49.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 99.24%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 166136   | 45.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.00%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 115084 | 46.457  | ug/L 98  |
| 3) Chloromethane               | 1.25 | 50  | 126063 | 47.560  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 133388 | 47.864  | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 96153  | 50.694  | ug/L 97  |
| 8) Chloroethane                | 1.59 | 64  | 86526  | 50.384  | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 222205 | 52.462  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 121592 | 51.291  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 119606 | 52.591  | ug/L 96  |
| 13) Acetone                    | 2.19 | 43  | 130958 | 95.107  | ug/L 100 |
| 14) Carbon disulfide           | 2.31 | 76  | 380163 | 51.601  | ug/L 99  |
| 15) Methyl Acetate             | 2.44 | 43  | 131509 | 49.574  | ug/L 99  |
| 16) Methylene chloride         | 2.52 | 84  | 133474 | 48.898  | ug/L 97  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 127480 | 48.986  | ug/L 99  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 398196 | 50.221  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 227151 | 49.852  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 138063 | 49.920  | ug/L 100 |
| 22) 2-Butanone                 | 3.99 | 43  | 176479 | 101.456 | ug/L 99  |

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 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05096

Quant Time: Oct 01 23:34:27 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM092920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 01 07:39:17 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 73288    | 48.189  | ug/L  | 99       |
| 25) Chloroform                  | 4.40  | 83   | 237488   | 49.361  | ug/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 188560   | 50.281  | ug/L  | 100      |
| 29) Cyclohexane                 | 4.70  | 56   | 198229   | 49.413  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 215653   | 49.386  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.85  | 117  | 190025   | 48.488  | ug/L  | 100      |
| 33) Benzene                     | 5.12  | 78   | 511119   | 49.462  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 147339   | 49.113  | ug/L  | 97       |
| 35) Methylcyclohexane           | 6.15  | 83   | 184815   | 45.667  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.19  | 63   | 129915   | 49.002  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.53  | 83   | 178295   | 50.216  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 200813   | 48.277  | ug/L  | 97       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 357788   | 104.586 | ug/L  | 100      |
| 42) Toluene                     | 7.41  | 91   | 560988   | 50.183  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 199489   | 48.822  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 129914   | 49.500  | ug/L  | 98       |
| 46) Tetrachloroethene           | 8.00  | 164  | 117824   | 48.411  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.16  | 43   | 278973   | 104.515 | ug/L  | 97       |
| 49) Dibromochloromethane        | 8.27  | 129  | 150008   | 49.972  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 140718   | 50.428  | ug/L  | 99       |
| 51) Chlorobenzene               | 8.90  | 112  | 372231   | 49.221  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 621653   | 49.796  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.16  | 106  | 238535   | 49.441  | ug/L  | 99       |
| 54) o-xylene                    | 9.56  | 106  | 232302   | 50.857  | ug/L  | 98       |
| 55) Styrene                     | 9.58  | 104  | 407417   | 51.225  | ug/L  | 96       |
| 56) Isopropylbenzene            | 9.95  | 105  | 606411   | 49.502  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 184243   | 49.804  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 163334   | 50.649  | ug/L  | 99       |
| 61) Bromoform                   | 9.75  | 173  | 112161   | 51.431  | ug/L  | 98       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 309846   | 50.429  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 314804   | 49.756  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 306224   | 50.379  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 42098    | 50.734  | ug/L  | 98       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 198771   | 46.703  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 191878   | 48.449  | ug/L  | 99       |
| 69) Naphthalene                 | 13.52 | 128  | 596669   | 52.631  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 193592   | 48.693  | ug/L  | 99       |

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

