

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081320\  
 Data File : VV017961.D  
 Acq On : 13 Aug 2020 10:58  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05067

Quant Time: Aug 14 03:38:05 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 13 14:37:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 261402   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 261656   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 143671   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 82644    | 41.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 82.88%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 73816    | 45.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 90.48%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 179159   | 46.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 93.92%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 133920   | 102.52   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 102.52% |
| 24) Chloroform-d               | 4.37    | 84    | 183538   | 50.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.10% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 122045   | 51.75    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.50% |
| 32) Benzene-d6                 | 5.07    | 84    | 350384   | 48.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.18%  |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 115108   | 48.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.66%  |
| 41) Toluene-d8                 | 7.34    | 98    | 329896   | 50.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 101.74% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 57304    | 53.59    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 107.18% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 78700    | 104.03   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 104.03% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.24   | 84    | 158009   | 51.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 102.94% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 137788   | 48.73    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.46%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 97165  | 48.146  | ug/L 99  |
| 3) Chloromethane               | 1.25 | 50  | 100033 | 42.670  | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 111954 | 48.200  | ug/L 96  |
| 6) Bromomethane                | 1.53 | 94  | 51303  | 36.956  | ug/L 100 |
| 8) Chloroethane                | 1.60 | 64  | 72368  | 48.815  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.76 | 101 | 161796 | 48.765  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 93687  | 50.571  | ug/L 97  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 88220  | 50.312  | ug/L 94  |
| 13) Acetone                    | 2.19 | 43  | 143083 | 106.046 | ug/L 98  |
| 14) Carbon disulfide           | 2.31 | 76  | 250785 | 51.964  | ug/L 99  |
| 15) Methyl Acetate             | 2.45 | 43  | 113060 | 51.924  | ug/L 99  |
| 16) Methylene chloride         | 2.52 | 84  | 105582 | 47.263  | ug/L 98  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 90535  | 50.229  | ug/L 98  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 315594 | 52.942  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 184421 | 50.884  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 104501 | 52.758  | ug/L 95  |
| 22) 2-Butanone                 | 3.99 | 43  | 168456 | 111.292 | ug/L 97  |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.27  | 128  | 55135    | 53.284  | ug/L  | 98       |
| 25) Chloroform                  | 4.40  | 83   | 187878   | 50.823  | ug/L  | 98       |
| 27) 1,2-Dichloroethane          | 5.15  | 62   | 152806   | 51.933  | ug/L  | 98       |
| 29) Cyclohexane                 | 4.70  | 56   | 158492   | 50.188  | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.63  | 97   | 158896   | 49.555  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.85  | 117  | 133929   | 50.174  | ug/L  | 99       |
| 33) Benzene                     | 5.12  | 78   | 398932   | 49.280  | ug/L  | 100      |
| 34) Trichloroethene             | 5.94  | 95   | 104631   | 48.898  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.15  | 83   | 161653   | 50.805  | ug/L  | 100      |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 109737   | 49.707  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.53  | 83   | 138384   | 50.465  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 162630   | 51.965  | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.24  | 43   | 300508   | 104.127 | ug/L  | 100      |
| 42) Toluene                     | 7.41  | 91   | 428185   | 50.689  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.67  | 75   | 158130   | 53.253  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane       | 7.86  | 97   | 104707   | 51.215  | ug/L  | 98       |
| 46) Tetrachloroethene           | 8.00  | 164  | 81752    | 52.094  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.16  | 43   | 241000   | 103.557 | ug/L  | 100      |
| 49) Dibromochloromethane        | 8.27  | 129  | 104474   | 52.353  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.37  | 107  | 109669   | 51.846  | ug/L  | 98       |
| 51) Chlorobenzene               | 8.90  | 112  | 276755   | 50.941  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.03  | 91   | 473405   | 51.399  | ug/L  | 100      |
| 53) m,p-Xylene                  | 9.16  | 106  | 179599   | 53.017  | ug/L  | 99       |
| 54) o-xylene                    | 9.56  | 106  | 173905   | 51.948  | ug/L  | 97       |
| 55) Styrene                     | 9.58  | 104  | 310698   | 54.195  | ug/L  | 100      |
| 56) Isopropylbenzene            | 9.95  | 105  | 462866   | 52.411  | ug/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 164527   | 51.679  | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.29 | 75   | 137404   | 50.396  | ug/L  | 100      |
| 61) Bromoform                   | 9.75  | 173  | 67932    | 49.971  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.20 | 146  | 229540   | 50.242  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 237091   | 50.517  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 232868   | 49.521  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 33764    | 48.733  | ug/L  | 99       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 185040   | 53.317  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.28 | 180  | 169638   | 55.595  | ug/L  | 99       |
| 69) Naphthalene                 | 13.52 | 128  | 479357   | 56.997  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.76 | 180  | 175812   | 56.658  | ug/L  | 99       |

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

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