

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082020\  
 Data File : VV018066.D  
 Acq On : 20 Aug 2020 12:32  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05077

Quant Time: Aug 21 02:41:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 20 14:27:22 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 274866   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 270162   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 149141   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 107737   | 51.37    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 102.74% |
| 7) Chloroethane-d5             | 1.58    | 69    | 90019    | 52.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 104.94% |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 204986   | 51.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 102.20% |
| 21) 2-Butanone-d5              | 3.91    | 46    | 129223   | 94.08    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 94.08%  |
| 24) Chloroform-d               | 4.37    | 84    | 195434   | 51.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.38% |
| 26) 1,2-Dichloroethane-d4      | 5.05    | 65    | 125886   | 50.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.54% |
| 32) Benzene-d6                 | 5.07    | 84    | 383875   | 51.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 103.12% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 122265   | 50.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.46% |
| 41) Toluene-d8                 | 7.33    | 98    | 354503   | 52.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 105.88% |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 60123    | 54.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 108.92% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 74648    | 95.56    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 95.56%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 153516   | 48.43    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.86%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 145288   | 49.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.00%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 96884  | 45.656  | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 109110 | 44.263  | ug/L 99  |
| 5) Vinyl chloride              | 1.32 | 62  | 113151 | 46.329  | ug/L 99  |
| 6) Bromomethane                | 1.53 | 94  | 69126  | 47.356  | ug/L 100 |
| 8) Chloroethane                | 1.60 | 64  | 74452  | 47.761  | ug/L 100 |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 165751 | 47.510  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 96953  | 49.771  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 90632  | 49.155  | ug/L 95  |
| 13) Acetone                    | 2.19 | 43  | 152044 | 107.168 | ug/L 99  |
| 14) Carbon disulfide           | 2.31 | 76  | 241440 | 47.577  | ug/L 100 |
| 15) Methyl Acetate             | 2.45 | 43  | 103205 | 45.076  | ug/L 100 |
| 16) Methylene chloride         | 2.52 | 84  | 108837 | 46.334  | ug/L 98  |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 94597  | 49.911  | ug/L 98  |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 311755 | 49.737  | ug/L 100 |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 184970 | 48.536  | ug/L 99  |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 105079 | 50.452  | ug/L 99  |
| 22) 2-Butanone                 | 3.99 | 43  | 166097 | 104.358 | ug/L 100 |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD05077

Quant Time: Aug 21 02:41:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM081120WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Aug 20 14:27:22 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.27  | 128  | 54477    | 50.069 | ug/L  | 98       |
| 25) Chloroform                 | 4.40  | 83   | 192347   | 49.484 | ug/L  | 99       |
| 27) 1,2-Dichloroethane         | 5.15  | 62   | 151857   | 49.082 | ug/L  | 98       |
| 29) Cyclohexane                | 4.70  | 56   | 158651   | 48.656 | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane      | 4.63  | 97   | 162091   | 48.960 | ug/L  | 98       |
| 31) Carbon tetrachloride       | 4.85  | 117  | 139036   | 50.447 | ug/L  | 99       |
| 33) Benzene                    | 5.12  | 78   | 407728   | 48.781 | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 107148   | 48.497 | ug/L  | 97       |
| 35) Methylcyclohexane          | 6.15  | 83   | 161342   | 49.111 | ug/L  | 100      |
| 37) 1,2-Dichloropropane        | 6.19  | 63   | 109792   | 48.166 | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.53  | 83   | 142980   | 50.500 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 165995   | 51.370 | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone       | 7.24  | 43   | 280935   | 94.280 | ug/L  | 100      |
| 42) Toluene                    | 7.41  | 91   | 436220   | 50.015 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75   | 165088   | 53.846 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 7.86  | 97   | 104099   | 49.314 | ug/L  | 97       |
| 46) Tetrachloroethene          | 7.99  | 164  | 83624    | 51.609 | ug/L  | 99       |
| 48) 2-Hexanone                 | 8.15  | 43   | 237126   | 98.684 | ug/L  | 100      |
| 49) Dibromochloromethane       | 8.26  | 129  | 109978   | 53.376 | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.37  | 107  | 106382   | 48.709 | ug/L  | 98       |
| 51) Chlorobenzene              | 8.90  | 112  | 281191   | 50.128 | ug/L  | 98       |
| 52) Ethylbenzene               | 9.03  | 91   | 484308   | 50.927 | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.16  | 106  | 179989   | 51.459 | ug/L  | 97       |
| 54) o-xylene                   | 9.56  | 106  | 175453   | 50.760 | ug/L  | 98       |
| 55) Styrene                    | 9.58  | 104  | 313248   | 52.920 | ug/L  | 98       |
| 56) Isopropylbenzene           | 9.95  | 105  | 472072   | 51.770 | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 156839   | 47.713 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.29 | 75   | 131393   | 46.674 | ug/L  | 99       |
| 61) Bromoform                  | 9.75  | 173  | 76498    | 54.209 | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.20 | 146  | 238267   | 50.240 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.29 | 146  | 244454   | 50.175 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.67 | 146  | 237029   | 48.557 | ug/L  | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 32558    | 45.269 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 191717   | 53.215 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.28 | 180  | 173953   | 54.919 | ug/L  | 100      |
| 69) Naphthalene                | 13.52 | 128  | 454420   | 52.050 | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 173191   | 53.767 | ug/L  | 100      |

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

