

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052620\  
 Data File : VV016214.D  
 Acq On : 27 May 2020 00:48  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00557

Quant Time: May 27 03:09:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR052620WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed May 27 03:06:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 93966    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 92432    | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 45291    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 31174    | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 103.20% |
| 7) Chloroethane-d5             | 1.58   | 69    | 26965    | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 101.80% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 60884    | 5.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 107.40% |
| 20) 2-Butanone-d5              | 3.93   | 46    | 84054    | 56.15    | ug/L | -0.04   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 112.30% |
| 24) Chloroform-d               | 4.38   | 84    | 62632    | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 104.20% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 32625    | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.60% |
| 32) Benzene-d6                 | 5.08   | 84    | 118061   | 5.16     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.20% |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 36441    | 5.14     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 102.80% |
| 41) Toluene-d8                 | 7.34   | 98    | 113212   | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 103.80% |
| 45) trans-1,3-Dichloropropene- | 7.64   | 79    | 13295    | 5.04     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 100.80% |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 61084    | 50.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.88% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 26780    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 102.20% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 38557    | 5.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.00% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units | Ovalue |
|--------------------------------|------|------|----------|--------|-------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 46410    | 5.611  | ug/L  | 100    |
| 3) Chloromethane               | 1.25 | 50   | 48894    | 5.407  | ug/L  | 99     |
| 5) Vinyl chloride              | 1.32 | 62   | 44776    | 5.441  | ug/L  | 97     |
| 6) Bromomethane                | 1.53 | 94   | 25185    | 5.440  | ug/L  | 100    |
| 8) Chloroethane                | 1.60 | 64   | 30985    | 6.739  | ug/L  | 96     |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 58536    | 5.502  | ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101  | 32329    | 5.575  | ug/L  | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96   | 31202    | 5.630  | ug/L  | 91     |
| 13) Acetone                    | 2.21 | 43   | 52557    | 56.718 | ug/L  | 88     |
| 14) Carbon disulfide           | 2.31 | 76   | 95709    | 5.571  | ug/L  | 99     |
| 15) Methyl Acetate             | 2.46 | 43   | 13832    | 5.842  | ug/L  | 98     |
| 16) Methylene chloride         | 2.53 | 84   | 33242    | 5.231  | ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 2.79 | 73   | 75105    | 5.504  | ug/L  | 98     |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96   | 33250    | 5.482  | ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 3.21 | 63   | 68081    | 5.909  | ug/L  | 98     |
| 21) 2-Butanone                 | 4.02 | 43   | 92830    | 56.316 | ug/L  | 89     |
| 22) cis-1,2-Dichloroethene     | 3.94 | 96   | 37399    | 5.214  | ug/L  | 94     |

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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.28  | 128  | 14956    | 5.493  | ug/L  | 95       |
| 25) Chloroform                 | 4.41  | 83   | 68146    | 5.589  | ug/L  | 96       |
| 27) 1,2-Dichloroethane         | 5.16  | 62   | 43732    | 5.486  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane      | 4.63  | 97   | 58742    | 5.354  | ug/L  | 100      |
| 30) Cyclohexane                | 4.70  | 56   | 63439    | 5.396  | ug/L  | 97       |
| 31) Carbon tetrachloride       | 4.86  | 117  | 49694    | 5.346  | ug/L  | 98       |
| 33) Benzene                    | 5.13  | 78   | 143545   | 5.397  | ug/L  | 100      |
| 34) Trichloroethene            | 5.94  | 95   | 37424    | 5.401  | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.15  | 83   | 59972    | 5.132  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.20  | 63   | 35854    | 5.496  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.53  | 83   | 43503    | 5.419  | ug/L  | 97       |
| 39) cis-1,3-Dichloropropene    | 7.05  | 75   | 49636    | 5.372  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone       | 7.25  | 43   | 228789   | 56.369 | ug/L  | 99       |
| 42) Toluene                    | 7.41  | 91   | 157255   | 5.421  | ug/L  | 98       |
| 43) 1,3,5-Trimethylbenzene     | 10.56 | 105  | 143657   | 5.440  | ug/L  | 98       |
| 44) 1,2,4-Trimethylbenzene     | 10.94 | 105  | 146970   | 5.404  | ug/L  | 98       |
| 46) trans-1,3-Dichloropropene  | 7.68  | 75   | 41916    | 5.460  | ug/L  | 97       |
| 47) 1,1,2-Trichloroethane      | 7.86  | 97   | 23042    | 5.370  | ug/L  | 95       |
| 49) Tetrachloroethene          | 8.00  | 164  | 26719    | 5.371  | ug/L  | 96       |
| 50) 2-Hexanone                 | 8.16  | 43   | 165003   | 58.294 | ug/L  | 99       |
| 51) Dibromochloromethane       | 8.27  | 129  | 25782    | 5.673  | ug/L  | 96       |
| 52) 1,2-Dibromoethane          | 8.38  | 107  | 22338    | 5.541  | ug/L  | 95       |
| 53) Chlorobenzene              | 8.90  | 112  | 96722    | 5.396  | ug/L  | 99       |
| 54) Ethylbenzene               | 9.03  | 91   | 175175   | 5.418  | ug/L  | 99       |
| 55) m,p-xylene                 | 9.16  | 106  | 66932    | 5.521  | ug/L  | 97       |
| 56) o-xylene                   | 9.57  | 106  | 62295    | 5.392  | ug/L  | 99       |
| 57) Styrene                    | 9.58  | 104  | 108360   | 5.635  | ug/L  | 99       |
| 58) Isopropylbenzene           | 9.95  | 105  | 173790   | 5.491  | ug/L  | 99       |
| 60) 1,1,2,2-Tetrachloroethane  | 10.26 | 83   | 28843    | 5.407  | ug/L  | 98       |
| 62) Bromoform                  | 9.75  | 173  | 12187    | 6.257  | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene        | 11.20 | 146  | 76185    | 5.512  | ug/L  | 97       |
| 64) 1,4-Dichlorobenzene        | 11.30 | 146  | 76520    | 5.448  | ug/L  | 98       |
| 66) 1,2-Dichlorobenzene        | 11.67 | 146  | 68165    | 5.456  | ug/L  | 99       |
| 67) 1,2-Dibromo-3-chloropropan | 12.45 | 75   | 5038     | 5.970  | ug/L  | 99       |
| 68) 1,3,5-Trichlorobenzene     | 12.67 | 180  | 51858    | 5.302  | ug/L  | 99       |
| 69) 1,2,4-trichlorobenzene     | 13.29 | 180  | 45350    | 5.280  | ug/L  | 100      |
| 70) Naphthalene                | 13.53 | 128  | 89894    | 4.791  | ug/L  | 99       |
| 71) 1,2,3-Trichlorobenzene     | 13.77 | 180  | 40967    | 5.289  | ug/L  | 98       |

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

