

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR040919\  
 Data File : VR026552.D  
 Acq On : 10 Apr 2019 12:20  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00568

Quant Time: Apr 11 03:10:41 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR040319WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Apr 11 03:05:08 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 618133   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.28 | 117  | 511235   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 205435   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.15   | 65    | 176581   | 3.76     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 75.20%  |
| 7) Chloroethane-d5             | 2.63   | 69    | 164380   | 4.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 84.00%  |
| 11) 1,1-Dichloroethene-d2      | 3.60   | 63    | 557000   | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 91.60%  |
| 20) 2-Butanone-d5              | 6.59   | 46    | 201753   | 48.18    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 96.36%  |
| 24) Chloroform-d               | 7.20   | 84    | 407071   | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.20%  |
| 26) 1,2-Dichloroethane-d4      | 7.89   | 65    | 166160   | 4.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 88.60%  |
| 32) Benzene-d6                 | 7.85   | 84    | 746439   | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.20%  |
| 36) 1,2-Dichloropropane-d6     | 8.89   | 67    | 194140   | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 91.80%  |
| 41) Toluene-d8                 | 9.97   | 98    | 717010   | 4.90     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 98.00%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 45711    | 4.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 81.40%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 170504   | 56.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 113.30% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 79357    | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 140272   | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 90.20%  |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.83 | 85  | 286473 | 4.522  | ug/L 100  |
| 3) Chloromethane               | 2.01 | 50  | 321251 | 4.808  | ug/L 99   |
| 5) Vinyl chloride              | 2.16 | 62  | 328523 | 5.003  | ug/L 99   |
| 6) Bromomethane                | 2.52 | 94  | 192682 | 5.019  | ug/L 91   |
| 8) Chloroethane                | 2.66 | 64  | 190133 | 5.107  | ug/L 97   |
| 9) Trichlorofluoromethane      | 2.93 | 101 | 504425 | 5.549  | ug/L 95   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101 | 252019 | 5.025  | ug/L 98   |
| 12) 1,1-Dichloroethene         | 3.62 | 96  | 279400 | 5.097  | ug/L 92   |
| 13) Acetone                    | 3.69 | 43  | 223671 | 52.858 | ug/L 97   |
| 14) Carbon disulfide           | 3.92 | 76  | 796350 | 5.005  | ug/L 97   |
| 15) Methyl Acetate             | 4.19 | 43  | 54904  | 4.809  | ug/L 96   |
| 16) Methylene chloride         | 4.40 | 84  | 230930 | 4.738  | ug/L 92   |
| 17) Methyl tert-butyl Ether    | 4.89 | 73  | 248731 | 3.989  | ug/L 99   |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96  | 255432 | 4.938  | ug/L 92   |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 451109 | 4.694  | ug/L 99   |
| 21) 2-Butanone                 | 6.68 | 43  | 276810 | 50.879 | ug/L 99   |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96  | 227503 | 5.288  | ug/L # 90 |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| -----                           |       |      |          |        |        |          |
| 23) Bromochloromethane          | 7.05  | 128  | 66707    | 4.976  | ug/L # | 82       |
| 25) Chloroform                  | 7.23  | 83   | 452205   | 4.918  | ug/L   | 99       |
| 27) 1,2-Dichloroethane          | 7.99  | 62   | 220205   | 4.802  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane       | 7.43  | 97   | 395412   | 4.686  | ug/L   | 97       |
| 30) Cyclohexane                 | 7.51  | 56   | 414379   | 5.285  | ug/L   | 97       |
| 31) Carbon tetrachloride        | 7.63  | 117  | 391959   | 4.903  | ug/L   | 99       |
| 33) Benzene                     | 7.90  | 78   | 1009471  | 5.053  | ug/L   | 100      |
| 34) Trichloroethene             | 8.71  | 95   | 262151   | 4.898  | ug/L   | 97       |
| 35) Methylcyclohexane           | 8.95  | 83   | 415028   | 5.438  | ug/L   | 95       |
| 37) 1,2-Dichloropropane         | 8.99  | 63   | 208796   | 4.769  | ug/L   | 100      |
| 38) Bromodichloromethane        | 9.28  | 83   | 246355   | 4.869  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene     | 9.72  | 75   | 242423   | 5.101  | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone        | 9.86  | 43   | 706264   | 55.050 | ug/L   | 100      |
| 42) Toluene                     | 10.03 | 91   | 1096716  | 5.356  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene   | 10.26 | 75   | 163973   | 4.730  | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane       | 10.45 | 97   | 91914    | 5.190  | ug/L   | 93       |
| 47) Tetrachloroethene           | 10.51 | 164  | 192051   | 5.043  | ug/L   | 97       |
| 48) 2-Hexanone                  | 10.63 | 43   | 476154   | 55.798 | ug/L   | 99       |
| 49) Dibromochloromethane        | 10.79 | 129  | 111896   | 4.823  | ug/L   | 91       |
| 50) 1,2-Dibromoethane           | 10.88 | 107  | 77005    | 5.055  | ug/L # | 93       |
| 51) Chlorobenzene               | 11.32 | 112  | 583697   | 5.080  | ug/L   | 96       |
| 52) Ethylbenzene                | 11.39 | 91   | 1276886  | 5.413  | ug/L   | 99       |
| 53) m,p-Xylene                  | 11.50 | 106  | 467807   | 5.534  | ug/L   | 93       |
| 54) o-Xylene                    | 11.83 | 106  | 405363   | 5.457  | ug/L   | 99       |
| 55) Styrene                     | 11.84 | 104  | 646194   | 5.510  | ug/L   | 100      |
| 56) Isopropylbenzene            | 12.13 | 105  | 1199865  | 5.691  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.39 | 83   | 84422    | 4.909  | ug/L   | 95       |
| 59) 1,2,3-Trichloropropane      | 12.43 | 75   | 64686    | 4.903  | ug/L   | 98       |
| 61) Bromoform                   | 12.01 | 173  | 40480    | 4.416  | ug/L   | 97       |
| 62) 1,3-Dichlorobenzene         | 13.16 | 146  | 326569   | 4.959  | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene         | 13.24 | 146  | 358746   | 4.853  | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene         | 13.53 | 146  | 272534   | 4.990  | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.14 | 75   | 8894     | 4.236  | ug/L # | 84       |
| 67) 1,3,5-Trichlorobenzene      | 14.29 | 180  | 206378   | 4.797  | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 14.78 | 180  | 112087   | 4.688  | ug/L   | 99       |
| 69) Naphthalene                 | 15.00 | 128  | 98367    | 4.374  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.18 | 180  | 85540    | 5.162  | ug/L   | 94       |
| -----                           |       |      |          |        |        |          |

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

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