

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR100218\  
 Data File : VR025921.D  
 Acq On : 2 Oct 2018 10:17  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :

Quant Time: Oct 03 02:52:31 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 02 01:45:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 512706   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 435733   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 163809   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.16   | 65    | 182406   | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.20%  |
| 7) Chloroethane-d5             | 2.63   | 69    | 165436   | 5.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 100.20% |
| 11) 1,1-Dichloroethene-d2      | 3.63   | 63    | 443568   | 4.67     | ug/L | 0.01    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 93.40%  |
| 20) 2-Butanone-d5              | 6.59   | 46    | 225849   | 50.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 100.22% |
| 24) Chloroform-d               | 7.20   | 84    | 333738   | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.80%  |
| 26) 1,2-Dichloroethane-d4      | 7.90   | 65    | 145843   | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.40%  |
| 32) Benzene-d6                 | 7.86   | 84    | 667857   | 4.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.20%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 182219   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.20%  |
| 41) Toluene-d8                 | 9.97   | 98    | 618243   | 4.54     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 90.80%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 45192    | 5.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 102.00% |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 169474   | 50.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.20% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 76247    | 4.81     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.20%  |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 119974   | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.40%  |

## Target Compounds

|                                |      |     |         |              | Ovalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.84 | 85  | 140502  | 4.508 ug/L   | 98     |
| 3) Chloromethane               | 2.01 | 50  | 220689  | 4.980 ug/L   | 98     |
| 5) Vinyl chloride              | 2.17 | 62  | 211886  | 4.804 ug/L   | 95     |
| 6) Bromomethane                | 2.52 | 94  | 138610  | 5.033 ug/L   | 93     |
| 8) Chloroethane                | 2.66 | 64  | 131076  | 5.223 ug/L   | 86     |
| 9) Trichlorofluoromethane      | 2.94 | 101 | 324759m | 5.303 ug/L   |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101 | 188996  | 5.049 ug/L   | 96     |
| 12) 1,1-Dichloroethene         | 3.65 | 96  | 189654  | 4.900 ug/L   | 81     |
| 13) Acetone                    | 3.70 | 43  | 166539  | 50.978 ug/L  | 98     |
| 14) Carbon disulfide           | 3.95 | 76  | 466136  | 4.975 ug/L   | 99     |
| 15) Methyl Acetate             | 4.19 | 43  | 40368   | 4.457 ug/L   | 100    |
| 16) Methylene chloride         | 4.40 | 84  | 168784  | 4.742 ug/L   | 91     |
| 17) Methyl tert-butyl Ether    | 4.90 | 73  | 200424  | 4.676 ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 4.89 | 96  | 153170  | 4.785 ug/L   | 95     |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 298480  | 4.710 ug/L   | 97     |
| 21) 2-Butanone                 | 6.69 | 43  | 208136  | 46.320 ug/L  | 96     |
| 22) cis-1,2-Dichloroethene     | 6.68 | 96  | 155470  | 4.827 ug/L # | 94     |

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 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :

Quant Time: Oct 03 02:52:31 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 02 01:45:34 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 7.06  | 128  | 42909    | 4.911  | ug/L   | 83       |
| 25) Chloroform                  | 7.23  | 83   | 289790   | 4.696  | ug/L   | 94       |
| 27) 1,2-Dichloroethane          | 7.99  | 62   | 143832   | 4.671  | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane       | 7.43  | 97   | 241557   | 4.930  | ug/L   | 99       |
| 30) Cyclohexane                 | 7.52  | 56   | 273052   | 4.460  | ug/L   | 97       |
| 31) Carbon tetrachloride        | 7.64  | 117  | 215222   | 5.072  | ug/L   | 99       |
| 33) Benzene                     | 7.91  | 78   | 683604   | 4.677  | ug/L   | 100      |
| 34) Trichloroethene             | 8.71  | 95   | 174834   | 4.540  | ug/L   | 95       |
| 35) Methylcyclohexane           | 8.95  | 83   | 274461   | 4.740  | ug/L   | 96       |
| 37) 1,2-Dichloropropane         | 9.00  | 63   | 150003   | 4.784  | ug/L   | 100      |
| 38) Bromodichloromethane        | 9.28  | 83   | 161391   | 4.771  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene     | 9.72  | 75   | 179480   | 5.105  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone        | 9.87  | 43   | 521380   | 47.292 | ug/L   | 98       |
| 42) Toluene                     | 10.04 | 91   | 726051   | 4.781  | ug/L   | 95       |
| 44) trans-1,3-Dichloropropene   | 10.26 | 75   | 119668   | 5.214  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane       | 10.45 | 97   | 63763    | 4.496  | ug/L   | 96       |
| 47) Tetrachloroethene           | 10.51 | 164  | 112060   | 4.723  | ug/L   | 94       |
| 48) 2-Hexanone                  | 10.63 | 43   | 346722   | 48.035 | ug/L   | 99       |
| 49) Dibromochloromethane        | 10.79 | 129  | 68778    | 4.779  | ug/L   | 100      |
| 50) 1,2-Dibromoethane           | 10.89 | 107  | 55557    | 4.965  | ug/L   | 93       |
| 51) Chlorobenzene               | 11.32 | 112  | 385962   | 4.791  | ug/L   | 94       |
| 52) Ethylbenzene                | 11.39 | 91   | 844636   | 4.873  | ug/L   | 99       |
| 53) m,p-Xylene                  | 11.50 | 106  | 300544   | 4.870  | ug/L   | 92       |
| 54) o-Xylene                    | 11.83 | 106  | 281184   | 4.895  | ug/L   | 92       |
| 55) Styrene                     | 11.84 | 104  | 445453   | 4.983  | ug/L   | 94       |
| 56) Isopropylbenzene            | 12.13 | 105  | 793117   | 5.006  | ug/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.39 | 83   | 63424    | 4.642  | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane      | 12.43 | 75   | 46625    | 4.585  | ug/L   | 96       |
| 61) Bromoform                   | 12.01 | 173  | 23428    | 4.731  | ug/L # | 96       |
| 62) 1,3-Dichlorobenzene         | 13.16 | 146  | 228853   | 4.780  | ug/L   | 94       |
| 63) 1,4-Dichlorobenzene         | 13.24 | 146  | 224921   | 4.593  | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene         | 13.53 | 146  | 176619   | 4.592  | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.14 | 75   | 5855     | 3.620  | ug/L   | 91       |
| 67) 1,3,5-Trichlorobenzene      | 14.29 | 180  | 135841   | 4.763  | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 14.78 | 180  | 85611    | 4.709  | ug/L   | 98       |
| 69) Naphthalene                 | 15.00 | 128  | 105221   | 4.535  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 15.18 | 180  | 58953    | 4.674  | ug/L   | 95       |

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

