

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR100918\  
 Data File : VR026010.D  
 Acq On : 9 Oct 2018 11:48  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00587

Manual Integrations  
 APPROVED

MMDadoda  
 10/16/2018 2:54:48 PM

Quant Time: Oct 10 05:36:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR092718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Oct 09 06:51:21 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 494103   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 424145   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.22 | 152  | 162386   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 2.16   | 65    | 164772   | 4.23     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 84.60% |
| 7) Chloroethane-d5             | 2.63   | 69    | 156280   | 4.91     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 98.20% |
| 11) 1,1-Dichloroethene-d2      | 3.63   | 63    | 422840   | 4.62     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 92.40% |
| 20) 2-Butanone-d5              | 6.59   | 46    | 193828   | 44.62    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 89.24% |
| 24) Chloroform-d               | 7.20   | 84    | 300502   | 4.43     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 88.60% |
| 26) 1,2-Dichloroethane-d4      | 7.90   | 65    | 130843   | 4.49     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.80% |
| 32) Benzene-d6                 | 7.85   | 84    | 589769   | 4.18     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 83.60% |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 159587   | 4.20     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 84.00% |
| 41) Toluene-d8                 | 9.97   | 98    | 552793   | 4.17     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 83.40% |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 41084    | 4.76     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 95.20% |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 155378   | 47.19    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 94.38% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 71474    | 4.63     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 92.60% |
| 64) 1,2-Dichlorobenzene-d4     | 13.51  | 152   | 111212   | 4.28     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 85.60% |

## Target Compounds

|                                |      |     |         |        | Ovalue    |
|--------------------------------|------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.83 | 85  | 122007  | 4.062  | ug/L 97   |
| 3) Chloromethane               | 2.01 | 50  | 214153  | 5.015  | ug/L 100  |
| 5) Vinyl chloride              | 2.17 | 62  | 211843  | 4.984  | ug/L 99   |
| 6) Bromomethane                | 2.53 | 94  | 128665  | 4.848  | ug/L 99   |
| 8) Chloroethane                | 2.66 | 64  | 126760  | 5.241  | ug/L 95   |
| 9) Trichlorofluoromethane      | 2.93 | 101 | 325211m | 5.510  | ug/L      |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.69 | 101 | 195946  | 5.431  | ug/L 98   |
| 12) 1,1-Dichloroethene         | 3.64 | 96  | 195921  | 5.253  | ug/L 85   |
| 13) Acetone                    | 3.70 | 43  | 169179  | 53.735 | ug/L 96   |
| 14) Carbon disulfide           | 3.93 | 76  | 445377  | 4.932  | ug/L 100  |
| 15) Methyl Acetate             | 4.19 | 43  | 44210   | 5.064  | ug/L 94   |
| 16) Methylene chloride         | 4.40 | 84  | 171208  | 4.992  | ug/L 97   |
| 17) Methyl tert-butyl Ether    | 4.88 | 73  | 174710  | 4.230  | ug/L 96   |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96  | 135930  | 4.406  | ug/L 86   |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 270057  | 4.422  | ug/L 91   |
| 21) 2-Butanone                 | 6.69 | 43  | 194847  | 44.995 | ug/L 96   |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96  | 138783  | 4.471  | ug/L # 93 |

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| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| -----                           |       |      |          |        |        |          |
| 23) Bromochloromethane          | 7.05  | 128  | 38730    | 4.599  | ug/L   | 87       |
| 25) Chloroform                  | 7.23  | 83   | 272454   | 4.581  | ug/L   | 98       |
| 27) 1,2-Dichloroethane          | 7.99  | 62   | 135917   | 4.580  | ug/L   | 100      |
| 29) 1,1,1-Trichloroethane       | 7.43  | 97   | 224697   | 4.711  | ug/L   | 97       |
| 30) Cyclohexane                 | 7.51  | 56   | 241891   | 4.059  | ug/L   | 96       |
| 31) Carbon tetrachloride        | 7.63  | 117  | 210247   | 5.090  | ug/L   | 98       |
| 33) Benzene                     | 7.91  | 78   | 638156   | 4.486  | ug/L   | 100      |
| 34) Trichloroethene             | 8.71  | 95   | 161164   | 4.299  | ug/L   | 91       |
| 35) Methylcyclohexane           | 8.95  | 83   | 249725   | 4.431  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 9.00  | 63   | 135119   | 4.427  | ug/L   | 99       |
| 38) Bromodichloromethane        | 9.28  | 83   | 150746   | 4.578  | ug/L # | 99       |
| 39) cis-1,3-Dichloropropene     | 9.72  | 75   | 161633   | 4.723  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 9.87  | 43   | 488018   | 45.475 | ug/L   | 97       |
| 42) Toluene                     | 10.04 | 91   | 685352   | 4.636  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene   | 10.26 | 75   | 113958   | 5.101  | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane       | 10.45 | 97   | 60635    | 4.392  | ug/L   | 94       |
| 47) Tetrachloroethene           | 10.51 | 164  | 109157   | 4.726  | ug/L   | 92       |
| 48) 2-Hexanone                  | 10.63 | 43   | 327489   | 46.610 | ug/L   | 96       |
| 49) Dibromochloromethane        | 10.79 | 129  | 65578    | 4.681  | ug/L   | 97       |
| 50) 1,2-Dibromoethane           | 10.89 | 107  | 51640    | 4.741  | ug/L   | 97       |
| 51) Chlorobenzene               | 11.32 | 112  | 365361   | 4.659  | ug/L   | 94       |
| 52) Ethylbenzene                | 11.39 | 91   | 814534   | 4.828  | ug/L   | 100      |
| 53) m,p-Xylene                  | 11.50 | 106  | 294403   | 4.901  | ug/L   | 96       |
| 54) o-Xylene                    | 11.83 | 106  | 269124   | 4.813  | ug/L   | 99       |
| 55) Styrene                     | 11.84 | 104  | 430865   | 4.951  | ug/L   | 94       |
| 56) Isopropylbenzene            | 12.13 | 105  | 782703   | 5.075  | ug/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 12.39 | 83   | 59682    | 4.487  | ug/L   | 92       |
| 59) 1,2,3-Trichloropropane      | 12.43 | 75   | 45346    | 4.581  | ug/L   | 95       |
| 61) Bromoform                   | 12.01 | 173  | 23537    | 4.795  | ug/L # | 96       |
| 62) 1,3-Dichlorobenzene         | 13.16 | 146  | 211986   | 4.467  | ug/L   | 93       |
| 63) 1,4-Dichlorobenzene         | 13.24 | 146  | 219013   | 4.511  | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene         | 13.53 | 146  | 168773   | 4.426  | ug/L   | 95       |
| 66) 1,2-Dibromo-3-chloropropan  | 14.14 | 75   | 6223     | 3.881  | ug/L   | 97       |
| 67) 1,3,5-Trichlorobenzene      | 14.29 | 180  | 130063   | 4.601  | ug/L   | 97       |
| 68) 1,2,4-trichlorobenzene      | 14.79 | 180  | 76681    | 4.255  | ug/L   | 97       |
| 69) Naphthalene                 | 15.00 | 128  | 87584    | 3.808  | ug/L   | 96       |
| 70) 1,2,3-Trichlorobenzene      | 15.18 | 180  | 56315    | 4.504  | ug/L   | 97       |
| -----                           |       |      |          |        |        |          |

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

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