

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101618\  
 Data File : VR026109.D  
 Acq On : 16 Oct 2018 19:52  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA R/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00591

Manual Integrations  
 APPROVED

MMDadoda  
 10/17/2018 5:44:10 PM

Quant Time: Oct 17 09:39:31 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR101518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Oct 17 08:49:24 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.46  | 114  | 563679   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.29 | 117  | 489218   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.23 | 152  | 191442   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 2.16   | 65    | 221617   | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 89.80%  |
| 7) Chloroethane-d5             | 2.62   | 69    | 207391   | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.80%  |
| 11) 1,1-Dichloroethene-d2      | 3.61   | 63    | 568761   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 93.80%  |
| 20) 2-Butanone-d5              | 6.59   | 46    | 221635   | 54.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 109.44% |
| 24) Chloroform-d               | 7.20   | 84    | 377887   | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.40%  |
| 26) 1,2-Dichloroethane-d4      | 7.90   | 65    | 157718   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80%  |
| 32) Benzene-d6                 | 7.85   | 84    | 716208   | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.20%  |
| 36) 1,2-Dichloropropane-d6     | 8.90   | 67    | 191145   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.20%  |
| 41) Toluene-d8                 | 9.97   | 98    | 678029   | 4.57     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 91.40%  |
| 43) trans-1,3-Dichloropropene- | 10.24  | 79    | 45691    | 4.29     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 85.80%  |
| 46) 2-Hexanone-d5              | 10.59  | 63    | 179645   | 58.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 116.88% |
| 57) 1,1,2,2-Tetrachloroethane- | 12.36  | 84    | 83572    | 5.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 105.00% |
| 64) 1,2-Dichlorobenzene-d4     | 13.52  | 152   | 136318   | 4.51     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 90.20%  |

## Target Compounds

|                                |      |     |         |              | Ovalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.84 | 85  | 170307  | 4.498 ug/L   | 93     |
| 3) Chloromethane               | 2.01 | 50  | 295518  | 4.915 ug/L   | 95     |
| 5) Vinyl chloride              | 2.17 | 62  | 315670  | 5.270 ug/L   | 97     |
| 6) Bromomethane                | 2.52 | 94  | 199420  | 5.041 ug/L   | 94     |
| 8) Chloroethane                | 2.66 | 64  | 188928  | 5.090 ug/L   | 99     |
| 9) Trichlorofluoromethane      | 2.93 | 101 | 468147m | 5.414 ug/L   |        |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.68 | 101 | 265675  | 5.154 ug/L   | 100    |
| 12) 1,1-Dichloroethene         | 3.63 | 96  | 283710  | 5.176 ug/L   | 87     |
| 13) Acetone                    | 3.70 | 43  | 205894  | 49.176 ug/L  | 98     |
| 14) Carbon disulfide           | 3.93 | 76  | 754342  | 5.264 ug/L   | 99     |
| 15) Methyl Acetate             | 4.19 | 43  | 56032   | 5.123 ug/L   | 99     |
| 16) Methylene chloride         | 4.40 | 84  | 241803  | 4.865 ug/L   | 99     |
| 17) Methyl tert-butyl Ether    | 4.89 | 73  | 238156  | 4.786 ug/L   | 98     |
| 18) trans-1,2-Dichloroethene   | 4.88 | 96  | 199615  | 4.816 ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 5.69 | 63  | 371102  | 4.768 ug/L   | 98     |
| 21) 2-Butanone                 | 6.69 | 43  | 237358  | 49.142 ug/L  | 99     |
| 22) cis-1,2-Dichloroethene     | 6.67 | 96  | 200682  | 5.118 ug/L # | 95     |

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| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane         | 7.05  | 128  | 53250    | 4.841  | ug/L   | 96       |
| 25) Chloroform                 | 7.23  | 83   | 368522   | 4.852  | ug/L   | 99       |
| 27) 1,2-Dichloroethane         | 7.99  | 62   | 181268   | 4.875  | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane      | 7.43  | 97   | 316531   | 4.735  | ug/L   | 99       |
| 30) Cyclohexane                | 7.51  | 56   | 345409   | 5.147  | ug/L   | 99       |
| 31) Carbon tetrachloride       | 7.63  | 117  | 286284   | 4.710  | ug/L   | 100      |
| 33) Benzene                    | 7.91  | 78   | 894134   | 4.871  | ug/L   | 100      |
| 34) Trichloroethene            | 8.71  | 95   | 226284   | 4.816  | ug/L   | 97       |
| 35) Methylcyclohexane          | 8.95  | 83   | 350100   | 5.005  | ug/L   | 98       |
| 37) 1,2-Dichloropropane        | 9.00  | 63   | 188017   | 4.855  | ug/L   | 99       |
| 38) Bromodichloromethane       | 9.28  | 83   | 203686   | 4.890  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene    | 9.72  | 75   | 219077   | 4.942  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone       | 9.87  | 43   | 635944   | 53.768 | ug/L   | 98       |
| 42) Toluene                    | 10.03 | 91   | 977647   | 5.046  | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene  | 10.26 | 75   | 148238   | 4.787  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane      | 10.45 | 97   | 82357    | 5.041  | ug/L   | 97       |
| 47) Tetrachloroethene          | 10.51 | 164  | 160942   | 4.797  | ug/L   | 96       |
| 48) 2-Hexanone                 | 10.63 | 43   | 416989   | 53.979 | ug/L   | 99       |
| 49) Dibromochloromethane       | 10.79 | 129  | 90589    | 4.928  | ug/L   | 95       |
| 50) 1,2-Dibromoethane          | 10.89 | 107  | 67889    | 4.810  | ug/L   | 89       |
| 51) Chlorobenzene              | 11.32 | 112  | 511594   | 4.770  | ug/L   | 98       |
| 52) Ethylbenzene               | 11.39 | 91   | 1133747  | 5.089  | ug/L   | 99       |
| 53) m,p-Xylene                 | 11.50 | 106  | 407988   | 5.026  | ug/L   | 98       |
| 54) o-Xylene                   | 11.83 | 106  | 376317   | 5.057  | ug/L   | 99       |
| 55) Styrene                    | 11.84 | 104  | 595896   | 5.202  | ug/L   | 98       |
| 56) Isopropylbenzene           | 12.13 | 105  | 1082299  | 5.236  | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 12.39 | 83   | 81783    | 4.926  | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane     | 12.43 | 75   | 64083    | 5.257  | ug/L   | 97       |
| 61) Bromoform                  | 12.01 | 173  | 30125    | 4.527  | ug/L   | 100      |
| 62) 1,3-Dichlorobenzene        | 13.16 | 146  | 301631   | 4.743  | ug/L   | 95       |
| 63) 1,4-Dichlorobenzene        | 13.24 | 146  | 314714   | 4.778  | ug/L   | 95       |
| 65) 1,2-Dichlorobenzene        | 13.53 | 146  | 243499   | 4.770  | ug/L   | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 14.14 | 75   | 8305     | 3.993  | ug/L # | 86       |
| 67) 1,3,5-Trichlorobenzene     | 14.29 | 180  | 169403   | 4.372  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene     | 14.79 | 180  | 101179   | 4.473  | ug/L   | 99       |
| 69) Naphthalene                | 15.00 | 128  | 104065   | 4.738  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene     | 15.18 | 180  | 73324    | 4.668  | ug/L   | 99       |

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

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