

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091719\  
 Data File : VV012870.D  
 Acq On : 17 Sep 2019 18:01  
 Operator : SY/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

Quant Time: Sep 17 18:31:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR091719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Sep 17 17:41:31 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 416107   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 402664   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 201524   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 183525   | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 89.20%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 147866   | 4.55     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 91.00%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 270240   | 4.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 89.00%  |
| 20) 2-Butanone-d5              | 3.98   | 46    | 431092   | 49.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.98%  |
| 24) Chloroform-d               | 4.40   | 84    | 311283   | 4.63     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 92.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 155922   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.00%  |
| 32) Benzene-d6                 | 5.09   | 84    | 646355   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.80%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 190679   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.80%  |
| 41) Toluene-d8                 | 7.36   | 98    | 589902   | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.60%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 72694    | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 99.60%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 327616   | 53.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 106.72% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 150880   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 205334   | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 94.40%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 115223 | 4.392  | ug/L 97  |
| 3) Chloromethane               | 1.25 | 50  | 138090 | 4.772  | ug/L 97  |
| 5) Vinyl chloride              | 1.32 | 62  | 155557 | 4.632  | ug/L 97  |
| 6) Bromomethane                | 1.53 | 94  | 78300  | 4.851  | ug/L 100 |
| 8) Chloroethane                | 1.60 | 64  | 81410  | 4.615  | ug/L 98  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 192484 | 4.711  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 114003 | 4.650  | ug/L 100 |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 102436 | 4.595  | ug/L 94  |
| 13) Acetone                    | 2.24 | 43  | 216048 | 47.374 | ug/L 96  |
| 14) Carbon disulfide           | 2.32 | 76  | 211620 | 4.633  | ug/L 100 |
| 15) Methyl Acetate             | 2.47 | 43  | 59707  | 5.004  | ug/L 95  |
| 16) Methylene chloride         | 2.53 | 84  | 119672 | 4.366  | ug/L 97  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 303787 | 4.818  | ug/L 100 |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 110742 | 4.469  | ug/L 97  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 241681 | 4.727  | ug/L 99  |
| 21) 2-Butanone                 | 4.06 | 43  | 395527 | 52.791 | ug/L 95  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 134137 | 4.818  | ug/L 100 |

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 Acq On : 17 Sep 2019 18:01  
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 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00560

Quant Time: Sep 17 18:31:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR091719WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Sep 17 17:41:31 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 57606    | 4.672  | ug/L  | 95       |
| 25) Chloroform                  | 4.42  | 83   | 260906   | 4.529  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 147159   | 4.804  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 199307   | 4.764  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 175439   | 5.027  | ug/L  | 98       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 166003   | 4.684  | ug/L  | 97       |
| 33) Benzene                     | 5.14  | 78   | 519234   | 4.970  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 129514   | 4.813  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.17  | 83   | 181267   | 5.019  | ug/L  | 99       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 141314   | 4.963  | ug/L  | 100      |
| 38) Bromodichloromethane        | 6.55  | 83   | 172556   | 4.657  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 178825   | 4.742  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 970329   | 52.926 | ug/L  | 100      |
| 42) Toluene                     | 7.43  | 91   | 549322   | 5.050  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 149903   | 4.977  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 102678   | 4.812  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.02  | 164  | 104629   | 4.838  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.19  | 43   | 716539   | 54.091 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 116879   | 4.811  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 86735    | 4.884  | ug/L  | 97       |
| 51) Chlorobenzene               | 8.92  | 112  | 365698   | 4.899  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.05  | 91   | 592129   | 5.076  | ug/L  | 99       |
| 53) m,p-xylene                  | 9.18  | 106  | 221980   | 5.159  | ug/L  | 97       |
| 54) o-xylene                    | 9.59  | 106  | 219456   | 5.188  | ug/L  | 99       |
| 55) Styrene                     | 9.60  | 104  | 388741   | 5.357  | ug/L  | 99       |
| 56) Isopropylbenzene            | 9.97  | 105  | 594757   | 5.240  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 129897   | 4.861  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 90905    | 4.894  | ug/L  | 100      |
| 61) Bromoform                   | 9.77  | 173  | 65298    | 4.726  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 291517   | 4.841  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 294893   | 4.771  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 285145   | 4.800  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.47 | 75   | 18728    | 4.587  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 222397   | 4.723  | ug/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 182947   | 4.839  | ug/L  | 100      |
| 69) Naphthalene                 | 13.55 | 128  | 283714   | 4.966  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 183942   | 4.931  | ug/L  | 99       |

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

