

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091019\  
 Data File : VV012667.D  
 Acq On : 10 Sep 2019 20:02  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00549

Quant Time: Sep 11 05:28:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR090919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Sep 11 05:21:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 377121   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 378712   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 194765   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 102955   | 4.03     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 80.60%  |
| 7) Chloroethane-d5             | 1.58   | 69    | 93664    | 4.43     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 88.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 192392   | 4.66     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 93.20%  |
| 20) 2-Butanone-d5              | 3.96   | 46    | 361853   | 58.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 117.56% |
| 24) Chloroform-d               | 4.40   | 84    | 224305   | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 111132   | 4.99     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 99.80%  |
| 32) Benzene-d6                 | 5.09   | 84    | 403495   | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 89.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 135592   | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.40%  |
| 41) Toluene-d8                 | 7.36   | 98    | 364126   | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.80%  |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 46869    | 4.74     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 94.80%  |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 216270   | 57.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 115.66% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 112598   | 5.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 109.20% |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 152867   | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.80%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 174067 | 5.473  | ug/L 100 |
| 3) Chloromethane               | 1.25 | 50  | 174192 | 5.425  | ug/L 100 |
| 5) Vinyl chloride              | 1.32 | 62  | 178682 | 5.452  | ug/L 98  |
| 6) Bromomethane                | 1.53 | 94  | 81362  | 4.529  | ug/L 97  |
| 8) Chloroethane                | 1.60 | 64  | 106977 | 5.520  | ug/L 96  |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 229410 | 5.580  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 138551 | 5.633  | ug/L 98  |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 131744 | 5.624  | ug/L 90  |
| 13) Acetone                    | 2.22 | 43  | 222610 | 61.695 | ug/L 99  |
| 14) Carbon disulfide           | 2.31 | 76  | 342349 | 5.434  | ug/L 99  |
| 15) Methyl Acetate             | 2.47 | 43  | 62902  | 6.480  | ug/L 98  |
| 16) Methylene chloride         | 2.53 | 84  | 142728 | 4.984  | ug/L 99  |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 327032 | 5.950  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 146811 | 5.574  | ug/L 98  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 282651 | 5.701  | ug/L 98  |
| 21) 2-Butanone                 | 4.05 | 43  | 413893 | 66.890 | ug/L 97  |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 156736 | 5.478  | ug/L 99  |

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 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00549

Quant Time: Sep 11 05:28:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR090919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Sep 11 05:21:41 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 69979    | 5.723  | ug/L  | 96       |
| 25) Chloroform                  | 4.42  | 83   | 292715   | 5.361  | ug/L  | 99       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 169285   | 5.914  | ug/L  | 100      |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 226714   | 5.439  | ug/L  | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 223146   | 5.377  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 198691   | 5.412  | ug/L  | 99       |
| 33) Benzene                     | 5.14  | 78   | 619065   | 5.593  | ug/L  | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 160581   | 5.250  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.17  | 83   | 226056   | 5.229  | ug/L  | 98       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 159418   | 5.783  | ug/L  | 99       |
| 38) Bromodichloromethane        | 6.55  | 83   | 195077   | 5.464  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 193364   | 5.346  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 988172   | 64.660 | ug/L  | 100      |
| 42) Toluene                     | 7.43  | 91   | 662960   | 5.766  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 150593   | 5.521  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 111779   | 5.822  | ug/L  | 99       |
| 47) Tetrachloroethene           | 8.02  | 164  | 135744   | 5.654  | ug/L  | 98       |
| 48) 2-Hexanone                  | 8.19  | 43   | 743291   | 67.971 | ug/L  | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 126943   | 5.558  | ug/L  | 98       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 96544    | 5.674  | ug/L  | 95       |
| 51) Chlorobenzene               | 8.92  | 112  | 415795   | 5.501  | ug/L  | 99       |
| 52) Ethylbenzene                | 9.05  | 91   | 677364   | 5.477  | ug/L  | 100      |
| 53) m,p-xylene                  | 9.18  | 106  | 266434   | 5.699  | ug/L  | 100      |
| 54) o-xylene                    | 9.59  | 106  | 250660   | 5.598  | ug/L  | 98       |
| 55) Styrene                     | 9.60  | 104  | 445917   | 5.989  | ug/L  | 100      |
| 56) Isopropylbenzene            | 9.97  | 105  | 666702   | 5.621  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 121018   | 6.322  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 99464    | 6.116  | ug/L  | 98       |
| 61) Bromoform                   | 9.77  | 173  | 69787    | 5.374  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 331114   | 5.488  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 329689   | 5.413  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 308255   | 5.426  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 17640    | 5.959  | ug/L  | 96       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 234937   | 5.141  | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 184687   | 5.105  | ug/L  | 99       |
| 69) Naphthalene                 | 13.55 | 128  | 289300   | 5.289  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 188656   | 5.530  | ug/L  | 99       |

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

