

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081919\  
 Data File : VV012303.D  
 Acq On : 20 Aug 2019 03:17  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00546

Quant Time: Aug 20 04:50:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR081919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Aug 20 02:35:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 136836   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.89  | 117  | 127626   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.29 | 152  | 69589    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 24967    | 3.57     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 71.40%   |
| 7) Chloroethane-d5             | 1.58   | 69    | 21691    | 4.25     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 85.00%   |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 57386    | 4.32     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 86.40%   |
| 20) 2-Butanone-d5              | 3.96   | 46    | 104581   | 55.48    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 110.96%  |
| 24) Chloroform-d               | 4.40   | 84    | 89948    | 4.76     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.20%   |
| 26) 1,2-Dichloroethane-d4      | 5.08   | 65    | 47232    | 4.85     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.00%   |
| 32) Benzene-d6                 | 5.10   | 84    | 160182   | 4.75     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 95.00%   |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 44833    | 4.70     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.00%   |
| 41) Toluene-d8                 | 7.36   | 98    | 149315   | 4.75     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.00%   |
| 43) trans-1,3-Dichloropropene- | 7.66   | 79    | 20674    | 5.04     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 100.80%  |
| 46) 2-Hexanone-d5              | 8.13   | 63    | 89653    | 69.30    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 138.60%# |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 38002    | 5.24     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.67  | 152   | 66828    | 4.77     | ug/L | 0.00     |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.40%   |

## Target Compounds

|                                |      |     |        |        | Ovalue    |
|--------------------------------|------|-----|--------|--------|-----------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 73121  | 4.475  | ug/L 97   |
| 3) Chloromethane               | 1.25 | 50  | 31187  | 3.649  | ug/L 94   |
| 5) Vinyl chloride              | 1.32 | 62  | 37328  | 4.149  | ug/L 99   |
| 6) Bromomethane                | 1.53 | 94  | 5504   | 1.187  | ug/L 98   |
| 8) Chloroethane                | 1.60 | 64  | 20654  | 4.607  | ug/L 98   |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 72283  | 4.465  | ug/L 98   |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101 | 32449  | 4.643  | ug/L 99   |
| 12) 1,1-Dichloroethene         | 2.14 | 96  | 30284  | 4.822  | ug/L 98   |
| 13) Acetone                    | 2.23 | 43  | 49303  | 50.000 | ug/L # 63 |
| 14) Carbon disulfide           | 2.32 | 76  | 82363  | 4.724  | ug/L 97   |
| 15) Methyl Acetate             | 2.47 | 43  | 9867   | 5.046  | ug/L 97   |
| 16) Methylene chloride         | 2.53 | 84  | 29989  | 4.587  | ug/L 95   |
| 17) Methyl tert-butyl Ether    | 2.81 | 73  | 114416 | 5.712  | ug/L 98   |
| 18) trans-1,2-Dichloroethene   | 2.78 | 96  | 45190  | 4.916  | ug/L 100  |
| 19) 1,1-Dichloroethane         | 3.23 | 63  | 77980  | 4.946  | ug/L 99   |
| 21) 2-Butanone                 | 4.04 | 43  | 100185 | 53.547 | ug/L 96   |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96  | 50752  | 5.130  | ug/L 97   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081919\  
 Data File : VV012303.D  
 Acq On : 20 Aug 2019 03:17  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25mL/MSVOA V/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00546

Quant Time: Aug 20 04:50:36 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR081919WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Tue Aug 20 02:35:23 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| 23) Bromochloromethane          | 4.30  | 128  | 23640    | 5.232  | ug/L   | 93       |
| 25) Chloroform                  | 4.42  | 83   | 89595    | 4.542  | ug/L   | 98       |
| 27) 1,2-Dichloroethane          | 5.18  | 62   | 57560    | 5.119  | ug/L   | 98       |
| 29) 1,1,1-Trichloroethane       | 4.65  | 97   | 86767    | 5.082  | ug/L   | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 65634    | 5.135  | ug/L   | 97       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 80996    | 5.083  | ug/L   | 99       |
| 33) Benzene                     | 5.14  | 78   | 179766   | 5.092  | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 51464    | 4.971  | ug/L   | 98       |
| 35) Methylcyclohexane           | 6.17  | 83   | 76021    | 4.905  | ug/L   | 98       |
| 37) 1,2-Dichloropropane         | 6.22  | 63   | 40475    | 4.900  | ug/L   | 99       |
| 38) Bromodichloromethane        | 6.55  | 83   | 64817    | 5.194  | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 65757    | 5.015  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone        | 7.28  | 43   | 254362   | 58.647 | ug/L   | 97       |
| 42) Toluene                     | 7.43  | 91   | 203627   | 5.211  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene   | 7.69  | 75   | 53511    | 5.110  | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane       | 7.88  | 97   | 32879    | 5.188  | ug/L   | 99       |
| 47) Tetrachloroethene           | 8.02  | 164  | 46691    | 4.887  | ug/L   | 99       |
| 48) 2-Hexanone                  | 8.19  | 43   | 184494   | 59.098 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 47230    | 5.486  | ug/L   | 99       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 32977    | 5.509  | ug/L # | 97       |
| 51) Chlorobenzene               | 8.92  | 112  | 138325   | 5.188  | ug/L   | 98       |
| 52) Ethylbenzene                | 9.05  | 91   | 232567   | 5.320  | ug/L   | 100      |
| 53) m,p-xylene                  | 9.18  | 106  | 90159    | 5.283  | ug/L   | 95       |
| 54) o-xylene                    | 9.59  | 106  | 88589    | 5.397  | ug/L   | 100      |
| 55) Styrene                     | 9.60  | 104  | 146690   | 5.291  | ug/L   | 99       |
| 56) Isopropylbenzene            | 9.97  | 105  | 241911   | 5.339  | ug/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.28 | 83   | 37698    | 5.823  | ug/L   | 96       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 28245    | 5.516  | ug/L   | 99       |
| 61) Bromoform                   | 9.77  | 173  | 26742    | 5.563  | ug/L   | 100      |
| 62) 1,3-Dichlorobenzene         | 11.22 | 146  | 117366   | 4.983  | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene         | 11.31 | 146  | 118541   | 5.060  | ug/L   | 98       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 111060   | 5.139  | ug/L   | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 7117     | 6.303  | ug/L   | 86       |
| 67) 1,3,5-Trichlorobenzene      | 12.69 | 180  | 97982    | 5.071  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.31 | 180  | 84879    | 5.942  | ug/L   | 98       |
| 69) Naphthalene                 | 13.55 | 128  | 266829   | 13.732 | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.79 | 180  | 79835    | 6.040  | ug/L   | 98       |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV081919\  
Data File : VV012303.D  
Acq On : 20 Aug 2019 03:17  
Operator : SY/MD  
Sample : VSTDCCC005EC  
Misc : 25mL/MSVOA V/WATER  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
VSTD00546

Quant Time: Aug 20 04:50:36 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR081919WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Aug 20 02:35:23 2019  
Response via : Initial Calibration

