

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101918\  
 Data File : VV008363.D  
 Acq On : 19 Oct 2018 15:13  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00573

Quant Time: Oct 20 02:53:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 20 02:49:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 126897   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 114273   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 49935    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 38852    | 5.42     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 108.40% |
| 7) Chloroethane-d5             | 1.58   | 69    | 29512    | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 104.20% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 72266    | 5.25     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 105.00% |
| 20) 2-Butanone-d5              | 3.98   | 46    | 120226   | 49.98    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.96%  |
| 24) Chloroform-d               | 4.40   | 84    | 91051    | 5.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 113.60% |
| 26) 1,2-Dichloroethane-d4      | 5.09   | 65    | 46590    | 5.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 114.60% |
| 32) Benzene-d6                 | 5.10   | 84    | 183781   | 5.47     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 109.40% |
| 36) 1,2-Dichloropropane-d6     | 6.12   | 67    | 60599    | 5.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 109.80% |
| 41) Toluene-d8                 | 7.36   | 98    | 170544   | 5.61     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 112.20% |
| 43) trans-1,3-Dichloropropene- | 7.67   | 79    | 23478    | 5.13     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 102.60% |
| 46) 2-Hexanone-d5              | 8.14   | 63    | 85468    | 53.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 106.40% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26  | 84    | 35201    | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 96.00%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 51973    | 5.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 109.60% |

## Target Compounds

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85   | 54044    | 5.532  | ug/L   | 99     |
| 3) Chloromethane               | 1.25 | 50   | 47850    | 4.798  | ug/L   | 97     |
| 5) Vinyl chloride              | 1.32 | 62   | 47045    | 4.983  | ug/L   | 97     |
| 6) Bromomethane                | 1.54 | 94   | 22913    | 4.241  | ug/L   | 99     |
| 8) Chloroethane                | 1.60 | 64   | 25441    | 5.184  | ug/L   | 99     |
| 9) Trichlorofluoromethane      | 1.77 | 101  | 60629    | 5.282  | ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.14 | 101  | 34854    | 5.320  | ug/L   | 98     |
| 12) 1,1-Dichloroethene         | 2.14 | 96   | 31054    | 5.094  | ug/L   | 92     |
| 13) Acetone                    | 2.23 | 43   | 60985    | 46.860 | ug/L   | 97     |
| 14) Carbon disulfide           | 2.32 | 76   | 103308   | 4.926  | ug/L   | 100    |
| 15) Methyl Acetate             | 2.48 | 43   | 13890    | 4.290  | ug/L   | 93     |
| 16) Methylene chloride         | 2.53 | 84   | 32641    | 4.626  | ug/L   | 93     |
| 17) Methyl tert-butyl Ether    | 2.82 | 73   | 85969    | 4.964  | ug/L   | 98     |
| 18) trans-1,2-Dichloroethene   | 2.79 | 96   | 33916    | 5.171  | ug/L   | 92     |
| 19) 1,1-Dichloroethane         | 3.23 | 63   | 67826    | 5.005  | ug/L   | 95     |
| 21) 2-Butanone                 | 4.06 | 43   | 137067   | 50.722 | ug/L   | 98     |
| 22) cis-1,2-Dichloroethene     | 3.96 | 96   | 53908    | 5.091  | ug/L # | 96     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101918\  
 Data File : VV008363.D  
 Acq On : 19 Oct 2018 15:13  
 Operator : SY/MD  
 Sample : VSTDCCC005EC  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD00573

Quant Time: Oct 20 02:53:03 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Oct 20 02:49:28 2018  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|--------|--------|----------|
| -----                           |       |      |          |        |        |          |
| 23) Bromochloromethane          | 4.30  | 128  | 19643    | 5.003  | ug/L   | 94       |
| 25) Chloroform                  | 4.43  | 83   | 93133    | 5.608  | ug/L   | 97       |
| 27) 1,2-Dichloroethane          | 5.19  | 62   | 57741    | 5.848  | ug/L   | 96       |
| 29) 1,1,1-Trichloroethane       | 4.66  | 97   | 80200    | 5.636  | ug/L   | 99       |
| 30) Cyclohexane                 | 4.72  | 56   | 93405    | 5.222  | ug/L   | 99       |
| 31) Carbon tetrachloride        | 4.87  | 117  | 66607    | 5.567  | ug/L   | 98       |
| 33) Benzene                     | 5.15  | 78   | 206172   | 5.354  | ug/L   | 100      |
| 34) Trichloroethene             | 5.96  | 95   | 59388    | 5.565  | ug/L   | 97       |
| 35) Methylcyclohexane           | 6.17  | 83   | 95359    | 5.299  | ug/L   | 96       |
| 37) 1,2-Dichloropropane         | 6.23  | 63   | 54901    | 5.284  | ug/L   | 99       |
| 38) Bromodichloromethane        | 6.56  | 83   | 64651    | 5.539  | ug/L   | 99       |
| 39) cis-1,3-Dichloropropene     | 7.07  | 75   | 79442    | 5.359  | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone        | 7.29  | 43   | 322835   | 50.734 | ug/L   | 99       |
| 42) Toluene                     | 7.43  | 91   | 214865   | 5.353  | ug/L   | 100      |
| 44) trans-1,3-Dichloropropene   | 7.70  | 75   | 62476    | 5.266  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane       | 7.89  | 97   | 33544    | 5.201  | ug/L   | 98       |
| 47) Tetrachloroethene           | 8.02  | 164  | 35758    | 5.348  | ug/L   | 96       |
| 48) 2-Hexanone                  | 8.19  | 43   | 243495   | 52.355 | ug/L   | 99       |
| 49) Dibromochloromethane        | 8.29  | 129  | 37554    | 5.108  | ug/L   | 98       |
| 50) 1,2-Dibromoethane           | 8.40  | 107  | 31216    | 5.163  | ug/L # | 94       |
| 51) Chlorobenzene               | 8.93  | 112  | 131844   | 5.528  | ug/L   | 98       |
| 52) Ethylbenzene                | 9.06  | 91   | 243810   | 5.524  | ug/L   | 99       |
| 53) m,p-xylene                  | 9.18  | 106  | 87991    | 5.512  | ug/L   | 99       |
| 54) o-xylene                    | 9.59  | 106  | 84045    | 5.284  | ug/L   | 91       |
| 55) Styrene                     | 9.60  | 104  | 140114   | 5.475  | ug/L   | 95       |
| 56) Isopropylbenzene            | 9.98  | 105  | 233355   | 5.568  | ug/L   | 98       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.29 | 83   | 33215    | 4.526  | ug/L   | 99       |
| 59) 1,2,3-Trichloropropane      | 10.32 | 75   | 30001    | 5.160  | ug/L   | 98       |
| 61) Bromoform                   | 9.78  | 173  | 17365    | 4.757  | ug/L   | 100      |
| 62) 1,3-Dichlorobenzene         | 11.23 | 146  | 91980    | 5.442  | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene         | 11.32 | 146  | 90553    | 5.412  | ug/L   | 99       |
| 65) 1,2-Dichlorobenzene         | 11.69 | 146  | 85660    | 5.287  | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.48 | 75   | 5584     | 4.568  | ug/L   | 86       |
| 67) 1,3,5-Trichlorobenzene      | 12.70 | 180  | 61673    | 5.640  | ug/L   | 99       |
| 68) 1,2,4-trichlorobenzene      | 13.32 | 180  | 44792    | 5.754  | ug/L   | 98       |
| 69) Naphthalene                 | 13.56 | 128  | 72354    | 4.986  | ug/L   | 99       |
| 70) 1,2,3-Trichlorobenzene      | 13.80 | 180  | 41363    | 5.352  | ug/L   | 96       |
| -----                           |       |      |          |        |        |          |

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

