

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081919\  
 Data File : VU033840.D  
 Acq On : 19 Aug 2019 12:34  
 Operator : JC/SP  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00548

Quant Time: Aug 19 15:25:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMUTR081419WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Aug 17 01:44:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 179039   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 188505   | 5.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 106554   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 94137    | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 93.00%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 79269    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 100.00% |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 65    | 44479    | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 95.60%  |
| 20) 2-Butanone-d5              | 4.19   | 46    | 195481   | 49.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 99.86%  |
| 24) Chloroform-d               | 4.62   | 84    | 146192   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 76183    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.40%  |
| 32) Benzene-d6                 | 5.32   | 84    | 280818   | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 86672    | 4.72     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 94.40%  |
| 41) Toluene-d8                 | 7.55   | 98    | 269879   | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.40% |
| 43) trans-1,3-Dichloropropene- | 7.83   | 79    | 35048    | 4.82     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 96.40%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 146756   | 50.67    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 101.34% |
| 56) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 74444    | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 93.80%  |
| 66) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 102574   | 4.75     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.00%  |

## Target Compounds

|                                |      |     |        |               | Ovalue |
|--------------------------------|------|-----|--------|---------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 126100 | 4.859 ug/L    | 98     |
| 3) Chloromethane               | 1.32 | 50  | 131402 | 4.879 ug/L    | 99     |
| 5) Vinyl chloride              | 1.39 | 62  | 143029 | 4.870 ug/L    | 99     |
| 6) Bromomethane                | 1.62 | 94  | 84800  | 4.961 ug/L    | 100    |
| 8) Chloroethane                | 1.69 | 64  | 83214  | 4.797 ug/L    | 97     |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 195127 | 4.850 ug/L    | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 107285 | 5.025 ug/L    | 100    |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 103931 | 5.038 ug/L    | 99     |
| 13) Acetone                    | 2.35 | 43  | 210476 | 50.442 ug/L # | 52     |
| 14) Carbon disulfide           | 2.46 | 76  | 330926 | 4.723 ug/L    | 100    |
| 15) Methyl Acetate             | 2.61 | 43  | 52605  | 4.850 ug/L    | 99     |
| 16) Methylene chloride         | 2.68 | 84  | 115557 | 4.798 ug/L    | 97     |
| 17) Methyl tert-butyl Ether    | 2.98 | 73  | 265795 | 4.976 ug/L    | 99     |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96  | 108881 | 4.915 ug/L    | 97     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 170014 | 4.909 ug/L    | 99     |
| 21) 2-Butanone                 | 4.28 | 43  | 257436 | 49.832 ug/L   | 97     |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96  | 92188  | 4.878 ug/L    | 96     |

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 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Sat Aug 17 01:44:12 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.52  | 128  | 45336    | 5.003  | ug/L  | 95       |
| 25) Chloroform                 | 4.65  | 83   | 179737   | 4.822  | ug/L  | 98       |
| 27) 1,2-Dichloroethane         | 5.38  | 62   | 113513   | 4.942  | ug/L  | 98       |
| 29) 1,1,1-Trichloroethane      | 4.89  | 97   | 148996   | 4.857  | ug/L  | 99       |
| 30) Cyclohexane                | 4.97  | 56   | 127834   | 4.604  | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.11  | 117  | 133646   | 4.896  | ug/L  | 99       |
| 33) Benzene                    | 5.36  | 78   | 370544   | 4.915  | ug/L  | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 97936    | 4.953  | ug/L  | 99       |
| 35) Methylcyclohexane          | 6.39  | 83   | 141004   | 4.756  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 100611   | 4.938  | ug/L  | 100      |
| 38) Bromodichloromethane       | 6.74  | 83   | 124752   | 4.856  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 131772   | 4.793  | ug/L  | 96       |
| 40) 4-Methyl-2-pentanone       | 7.45  | 43   | 598131   | 50.803 | ug/L  | 100      |
| 42) Toluene                    | 7.62  | 91   | 406224   | 5.127  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 113230   | 4.926  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 71582    | 4.917  | ug/L  | 99       |
| 47) Tetrachloroethene          | 8.21  | 164  | 79239    | 4.807  | ug/L  | 98       |
| 48) 2-Hexanone                 | 8.35  | 43   | 449382   | 52.778 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.46  | 129  | 88947    | 5.039  | ug/L  | 99       |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 67704    | 4.810  | ug/L  | 95       |
| 51) Chlorobenzene              | 9.10  | 112  | 248319   | 4.868  | ug/L  | 98       |
| 52) Ethylbenzene               | 9.23  | 91   | 405125   | 4.941  | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.36  | 106  | 158303   | 5.120  | ug/L  | 97       |
| 54) o-Xylene                   | 9.76  | 106  | 153138   | 5.216  | ug/L  | 99       |
| 55) Styrene                    | 9.77  | 104  | 271209   | 5.324  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 89435    | 4.677  | ug/L  | 99       |
| 59) Isopropylbenzene           | 10.15 | 105  | 393032   | 4.838  | ug/L  | 99       |
| 60) Bromoform                  | 9.94  | 173  | 51206    | 4.704  | ug/L  | 96       |
| 61) 1,2,3-Trichloropropane     | 10.48 | 75   | 65205    | 4.608  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene     | 10.76 | 105  | 315365   | 4.784  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene     | 11.13 | 105  | 325049   | 4.942  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene        | 11.40 | 146  | 210334   | 4.842  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene        | 11.49 | 146  | 209452   | 4.683  | ug/L  | 96       |
| 67) 1,2-Dichlorobenzene        | 11.86 | 146  | 198211   | 4.726  | ug/L  | 100      |
| 68) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 14374    | 4.654  | ug/L  | 96       |
| 69) 1,3,5-Trichlorobenzene     | 12.87 | 180  | 161409   | 4.724  | ug/L  | 100      |
| 70) 1,2,4-trichlorobenzene     | 13.49 | 180  | 126376   | 4.753  | ug/L  | 98       |
| 71) Naphthalene                | 13.73 | 128  | 188795   | 4.611  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 121657   | 4.855  | ug/L  | 99       |

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

