

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091819\  
 Data File : VU034642.D  
 Acq On : 18 Sep 2019 02:57  
 Operator : JC/SP  
 Sample : VSTDCCC005EC  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00521

Quant Time: Sep 18 08:11:06 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR091819WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Sep 18 08:05:17 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 91279    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 89371    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 39872    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 35320    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 97.40%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 28832    | 4.89     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 97.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 67246    | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 104.80% |
| 20) 2-Butanone-d5              | 4.17   | 46    | 94629    | 53.00    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 106.00% |
| 24) Chloroform-d               | 4.62   | 84    | 48386    | 4.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 87.40%  |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 31905    | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.20% |
| 32) Benzene-d6                 | 5.32   | 84    | 117008   | 4.92     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.40%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 40879    | 5.09     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 101.80% |
| 41) Toluene-d8                 | 7.54   | 98    | 109099   | 4.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.00%  |
| 43) trans-1,3-Dichloropropene- | 7.83   | 79    | 15271    | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 94.00%  |
| 46) 2-Hexanone-d5              | 8.29   | 63    | 72607    | 50.25    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 100.50% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 31188    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 100.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 33719    | 4.91     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.20%  |

## Target Compounds

|                                |      |     |        |             | Ovalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 34238  | 4.953 ug/L  | 97     |
| 3) Chloromethane               | 1.32 | 50  | 32821  | 5.035 ug/L  | 97     |
| 5) Vinyl chloride              | 1.40 | 62  | 32875  | 4.815 ug/L  | 98     |
| 6) Bromomethane                | 1.62 | 94  | 16974  | 4.987 ug/L  | 96     |
| 8) Chloroethane                | 1.69 | 64  | 22615  | 5.682 ug/L  | 97     |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 46812  | 5.173 ug/L  | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 26580  | 5.228 ug/L  | 96     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 22997  | 5.108 ug/L  | 98     |
| 13) Acetone                    | 2.31 | 43  | 66961  | 48.542 ug/L | 99     |
| 14) Carbon disulfide           | 2.46 | 76  | 58406  | 5.061 ug/L  | 99     |
| 15) Methyl Acetate             | 2.60 | 43  | 16508  | 4.903 ug/L  | 94     |
| 16) Methylene chloride         | 2.68 | 84  | 27931  | 4.664 ug/L  | 98     |
| 17) Methyl tert-butyl Ether    | 2.98 | 73  | 82180  | 5.213 ug/L  | 99     |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96  | 23095  | 4.936 ug/L  | 98     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 58480  | 5.121 ug/L  | 97     |
| 21) 2-Butanone                 | 4.26 | 43  | 109456 | 55.119 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 4.19 | 96  | 30727  | 4.910 ug/L  | 98     |

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 QLast Update : Wed Sep 18 08:05:17 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 4.52  | 128  | 12007    | 5.206  | ug/L  | 94       |
| 25) Chloroform                 | 4.65  | 83   | 70562    | 5.524  | ug/L  | 100      |
| 27) 1,2-Dichloroethane         | 5.38  | 62   | 37798    | 5.143  | ug/L  | 97       |
| 29) 1,1,1-Trichloroethane      | 4.89  | 97   | 46083    | 4.891  | ug/L  | 98       |
| 30) Cyclohexane                | 4.96  | 56   | 49453    | 4.993  | ug/L  | 97       |
| 31) Carbon tetrachloride       | 5.11  | 117  | 37083    | 4.837  | ug/L  | 93       |
| 33) Benzene                    | 5.36  | 78   | 121275   | 5.019  | ug/L  | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 30590    | 5.078  | ug/L  | 90       |
| 35) Methylcyclohexane          | 6.39  | 83   | 46611    | 4.791  | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 36894    | 4.945  | ug/L  | 99       |
| 38) Bromodichloromethane       | 6.73  | 83   | 44377    | 4.971  | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 50204    | 4.779  | ug/L  | 96       |
| 40) 4-Methyl-2-pentanone       | 7.44  | 43   | 289926   | 51.559 | ug/L  | 99       |
| 42) Toluene                    | 7.61  | 91   | 129717   | 4.967  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 37605    | 4.413  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 24051    | 5.068  | ug/L  | 97       |
| 47) Tetrachloroethene          | 8.21  | 164  | 17461    | 4.782  | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.34  | 43   | 201573   | 53.338 | ug/L  | 95       |
| 49) Dibromochloromethane       | 8.46  | 129  | 26590    | 4.778  | ug/L  | 98       |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 21176    | 4.894  | ug/L  | 97       |
| 51) Chlorobenzene              | 9.10  | 112  | 81181    | 4.959  | ug/L  | 97       |
| 52) Ethylbenzene               | 9.23  | 91   | 150939   | 5.000  | ug/L  | 97       |
| 53) m,p-Xylene                 | 9.35  | 106  | 52502    | 4.904  | ug/L  | 94       |
| 54) o-Xylene                   | 9.76  | 106  | 53728    | 4.995  | ug/L  | 97       |
| 55) Styrene                    | 9.77  | 104  | 90203    | 5.049  | ug/L  | 99       |
| 56) Isopropylbenzene           | 10.14 | 105  | 148772   | 4.979  | ug/L  | 99       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.43 | 83   | 34942    | 4.988  | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.47 | 75   | 24287    | 4.983  | ug/L  | 96       |
| 61) Bromoform                  | 9.94  | 173  | 13163    | 4.998  | ug/L  | 91       |
| 62) 1,3-Dichlorobenzene        | 11.39 | 146  | 59651    | 5.096  | ug/L  | 97       |
| 63) 1,4-Dichlorobenzene        | 11.49 | 146  | 56723    | 4.854  | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 11.86 | 146  | 58158    | 5.076  | ug/L  | 95       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 5234     | 5.045  | ug/L  | 91       |
| 67) 1,3,5-Trichlorobenzene     | 12.86 | 180  | 36976    | 4.833  | ug/L  | 97       |
| 68) 1,2,4-trichlorobenzene     | 13.48 | 180  | 28900    | 4.737  | ug/L  | 97       |
| 69) Naphthalene                | 13.72 | 128  | 62009    | 4.174  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 27732    | 4.853  | ug/L  | 99       |

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

