

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121219\  
 Data File : VU036178.D  
 Acq On : 13 Dec 2019 03:15  
 Operator : JC/MD  
 Sample : VSTDCCC005  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD00511

Quant Time: Dec 13 03:35:10 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR121219WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Dec 13 02:41:23 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 306664   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 334736   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 160912   | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 140531   | 4.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 90.40%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 129111   | 4.73     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 94.60%  |
| 11) 1,1-Dichloroethene-d2      | 2.60   | 63    | 199856   | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 97.40%  |
| 20) 2-Butanone-d5              | 4.68   | 46    | 237813   | 47.63    | ug/L | -0.01   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 95.26%  |
| 24) Chloroform-d               | 5.11   | 84    | 223188   | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 98.80%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 110636   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80%  |
| 32) Benzene-d6                 | 5.77   | 84    | 428878   | 4.80     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 96.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 130764   | 4.69     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 93.80%  |
| 41) Toluene-d8                 | 7.93   | 98    | 413369   | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 100.00% |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 53424    | 4.59     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.80%  |
| 46) 2-Hexanone-d5              | 8.67   | 63    | 201186   | 47.02    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 94.04%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 118811   | 4.78     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 95.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 147618   | 4.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 96.60%  |

## Target Compounds

|                                |      |     |        |        | Ovalue   |
|--------------------------------|------|-----|--------|--------|----------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 165655 | 4.874  | ug/L 100 |
| 3) Chloromethane               | 1.54 | 50  | 190587 | 4.344  | ug/L 99  |
| 5) Vinyl chloride              | 1.62 | 62  | 197972 | 4.833  | ug/L 98  |
| 6) Bromomethane                | 1.87 | 94  | 98372  | 3.907  | ug/L 99  |
| 8) Chloroethane                | 1.95 | 64  | 125754 | 4.988  | ug/L 100 |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 256905 | 5.145  | ug/L 99  |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 123102 | 4.974  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.61 | 96  | 115790 | 5.011  | ug/L 99  |
| 13) Acetone                    | 2.66 | 43  | 178867 | 41.181 | ug/L 98  |
| 14) Carbon disulfide           | 2.82 | 76  | 389005 | 5.066  | ug/L 99  |
| 15) Methyl Acetate             | 2.99 | 43  | 44747  | 4.832  | ug/L 100 |
| 16) Methylene chloride         | 3.08 | 84  | 145483 | 4.502  | ug/L 96  |
| 17) Methyl tert-butyl Ether    | 3.41 | 73  | 229403 | 4.774  | ug/L 99  |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 121858 | 5.082  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 223796 | 5.075  | ug/L 100 |
| 21) 2-Butanone                 | 4.76 | 43  | 271351 | 46.863 | ug/L 96  |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96  | 125993 | 5.106  | ug/L 97  |

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 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane          | 5.02  | 128  | 63520    | 5.172  | ug/L  | 98       |
| 25) Chloroform                  | 5.14  | 83   | 239033   | 5.127  | ug/L  | 96       |
| 27) 1,2-Dichloroethane          | 5.84  | 62   | 138843   | 5.080  | ug/L  | 96       |
| 29) 1,1,1-Trichloroethane       | 5.36  | 97   | 200491   | 4.885  | ug/L  | 97       |
| 30) Cyclohexane                 | 5.43  | 56   | 166441   | 4.764  | ug/L  | 99       |
| 31) Carbon tetrachloride        | 5.57  | 117  | 182712   | 4.975  | ug/L  | 100      |
| 33) Benzene                     | 5.82  | 78   | 515799   | 5.010  | ug/L  | 100      |
| 34) Trichloroethene             | 6.58  | 95   | 128873   | 4.895  | ug/L  | 98       |
| 35) Methylcyclohexane           | 6.80  | 83   | 168288   | 4.484  | ug/L  | 95       |
| 37) 1,2-Dichloropropane         | 6.83  | 63   | 130549   | 4.915  | ug/L  | 100      |
| 38) Bromodichloromethane        | 7.14  | 83   | 167697   | 4.946  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene     | 7.64  | 75   | 162739   | 4.635  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone        | 7.84  | 43   | 648082   | 48.336 | ug/L  | 99       |
| 42) Toluene                     | 8.00  | 91   | 554252   | 5.083  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene   | 8.24  | 75   | 137778   | 4.655  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane       | 8.43  | 97   | 96152    | 4.908  | ug/L  | 97       |
| 47) Tetrachloroethene           | 8.58  | 164  | 110321   | 4.782  | ug/L  | 97       |
| 48) 2-Hexanone                  | 8.72  | 43   | 509330   | 51.785 | ug/L  | 98       |
| 49) Dibromochloromethane        | 8.84  | 129  | 117592   | 4.845  | ug/L  | 99       |
| 50) 1,2-Dibromoethane           | 8.96  | 107  | 90271    | 4.916  | ug/L  | 98       |
| 51) Chlorobenzene               | 9.48  | 112  | 344913   | 4.858  | ug/L  | 100      |
| 52) Ethylbenzene                | 9.60  | 91   | 517987   | 4.883  | ug/L  | 98       |
| 53) m,p-Xylene                  | 9.72  | 106  | 207038   | 4.969  | ug/L  | 100      |
| 54) o-Xylene                    | 10.13 | 106  | 194269   | 4.880  | ug/L  | 97       |
| 55) Styrene                     | 10.14 | 104  | 349635   | 4.957  | ug/L  | 97       |
| 56) Isopropylbenzene            | 10.51 | 105  | 492412   | 4.841  | ug/L  | 100      |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.81 | 83   | 119824   | 4.865  | ug/L  | 95       |
| 59) 1,2,3-Trichloropropane      | 10.85 | 75   | 87433    | 4.993  | ug/L  | 96       |
| 61) Bromoform                   | 10.32 | 173  | 72099    | 4.705  | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene         | 11.77 | 146  | 262032   | 4.935  | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene         | 11.86 | 146  | 256744   | 4.950  | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene         | 12.24 | 146  | 244547   | 4.804  | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 13.02 | 75   | 16621    | 5.114  | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 13.24 | 180  | 152496   | 4.433  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene      | 13.86 | 180  | 90805    | 5.039  | ug/L  | 98       |
| 69) Naphthalene                 | 14.11 | 128  | 120818   | 6.514  | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene      | 14.35 | 180  | 93439    | 5.564  | ug/L  | 98       |

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

