

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032219\  
 Data File : VU030295.D  
 Acq On : 22 Mar 2019 10:06  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05053

Quant Time: Mar 23 02:31:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM031919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 22 05:14:44 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 528453   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 511426   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 261370   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 163986   | 45.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 91.78%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 138497   | 48.47    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 96.94%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 311814   | 47.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.66%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 275619   | 103.97   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.97% |
| 24) Chloroform-d               | 4.64    | 84    | 324218   | 49.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.88%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 186851   | 49.96    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.92%  |
| 32) Benzene-d6                 | 5.34    | 84    | 675305   | 50.11    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.22% |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 210217   | 50.41    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.82% |
| 41) Toluene-d8                 | 7.56    | 98    | 623997   | 49.24    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.48%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 102095   | 50.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 100.56% |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 223481   | 103.34   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 103.34% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 329444   | 51.50    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 103.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 259647   | 49.48    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.96%  |

## Target Compounds

|                                |      |     |        |         | Ovalue   |
|--------------------------------|------|-----|--------|---------|----------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 225213 | 50.336  | ug/L 100 |
| 3) Chloromethane               | 1.33 | 50  | 218865 | 50.537  | ug/L 99  |
| 5) Vinyl chloride              | 1.40 | 62  | 233392 | 50.767  | ug/L 99  |
| 6) Bromomethane                | 1.62 | 94  | 133766 | 53.766  | ug/L 98  |
| 8) Chloroethane                | 1.70 | 64  | 138171 | 50.833  | ug/L 99  |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 297647 | 50.981  | ug/L 100 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 182831 | 51.500  | ug/L 99  |
| 12) 1,1-Dichloroethene         | 2.28 | 96  | 178475 | 50.622  | ug/L 97  |
| 13) Acetone                    | 2.32 | 43  | 288525 | 104.159 | ug/L 99  |
| 14) Carbon disulfide           | 2.48 | 76  | 505344 | 47.990  | ug/L 99  |
| 15) Methyl Acetate             | 2.61 | 43  | 202074 | 50.165  | ug/L 98  |
| 16) Methylene chloride         | 2.70 | 84  | 199048 | 49.780  | ug/L 98  |
| 17) trans-1,2-Dichloroethene   | 2.98 | 96  | 186390 | 50.166  | ug/L 98  |
| 18) Methyl tert-butyl Ether    | 3.00 | 73  | 549496 | 51.413  | ug/L 99  |
| 19) 1,1-Dichloroethane         | 3.44 | 63  | 330489 | 51.714  | ug/L 98  |
| 20) cis-1,2-Dichloroethene     | 4.22 | 96  | 206377 | 50.697  | ug/L 98  |
| 22) 2-Butanone                 | 4.26 | 43  | 346441 | 106.413 | ug/L 98  |

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 VSTD05053

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 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 22 05:14:44 2019  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|---------------------------------|-------|------|----------|---------|-------|----------|
| 23) Bromochloromethane          | 4.55  | 128  | 111075   | 50.981  | uq/L  | 99       |
| 25) Chloroform                  | 4.67  | 83   | 342528   | 51.447  | uq/L  | 97       |
| 27) 1,2-Dichloroethane          | 5.40  | 62   | 243832   | 51.670  | uq/L  | 99       |
| 29) Cyclohexane                 | 4.99  | 56   | 295515   | 53.180  | uq/L  | 99       |
| 30) 1,1,1-Trichloroethane       | 4.91  | 97   | 286637   | 52.005  | uq/L  | 99       |
| 31) Carbon tetrachloride        | 5.13  | 117  | 249604   | 51.154  | uq/L  | 100      |
| 33) Benzene                     | 5.39  | 78   | 774409   | 52.483  | uq/L  | 100      |
| 34) Trichloroethene             | 6.18  | 95   | 198547   | 51.052  | uq/L  | 98       |
| 35) Methylcyclohexane           | 6.41  | 83   | 324409   | 53.195  | uq/L  | 100      |
| 37) 1,2-Dichloropropane         | 6.43  | 63   | 201306   | 53.270  | uq/L  | 99       |
| 38) Bromodichloromethane        | 6.75  | 83   | 254227   | 52.324  | uq/L  | 97       |
| 39) cis-1,3-Dichloropropene     | 7.27  | 75   | 320901   | 52.928  | uq/L  | 99       |
| 40) 4-Methyl-2-pentanone        | 7.46  | 43   | 532857   | 102.599 | uq/L  | 99       |
| 42) Toluene                     | 7.63  | 91   | 853833   | 53.164  | uq/L  | 99       |
| 44) trans-1,3-Dichloropropene   | 7.88  | 75   | 278042   | 52.997  | uq/L  | 97       |
| 45) 1,1,2-Trichloroethane       | 8.06  | 97   | 203512   | 52.464  | uq/L  | 99       |
| 46) Tetrachloroethene           | 8.22  | 164  | 172531   | 52.506  | uq/L  | 99       |
| 48) 2-Hexanone                  | 8.36  | 43   | 445107   | 103.258 | uq/L  | 99       |
| 49) Dibromochloromethane        | 8.47  | 129  | 224135   | 51.527  | uq/L  | 100      |
| 50) 1,2-Dibromoethane           | 8.58  | 107  | 222098   | 51.643  | uq/L  | 100      |
| 51) Chlorobenzene               | 9.12  | 112  | 550105   | 51.773  | uq/L  | 100      |
| 52) Ethylbenzene                | 9.25  | 91   | 921021   | 52.807  | uq/L  | 100      |
| 53) m,p-Xylene                  | 9.37  | 106  | 358616   | 53.368  | uq/L  | 99       |
| 54) o-xylene                    | 9.78  | 106  | 352992   | 53.439  | uq/L  | 100      |
| 55) Styrene                     | 9.79  | 104  | 608029   | 54.328  | uq/L  | 98       |
| 56) Isopropylbenzene            | 10.16 | 105  | 913438   | 53.486  | uq/L  | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.45 | 83   | 338592   | 51.189  | uq/L  | 99       |
| 59) 1,2,3-Trichloropropane      | 10.49 | 75   | 256950   | 50.309  | uq/L  | 100      |
| 61) Bromoform                   | 9.95  | 173  | 177775   | 52.670  | uq/L  | 100      |
| 62) 1,3-Dichlorobenzene         | 11.41 | 146  | 437212   | 52.430  | uq/L  | 98       |
| 63) 1,4-Dichlorobenzene         | 11.50 | 146  | 449408   | 51.956  | uq/L  | 100      |
| 65) 1,2-Dichlorobenzene         | 11.87 | 146  | 444777   | 52.205  | uq/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.65 | 75   | 72506    | 50.902  | uq/L  | 97       |
| 67) 1,3,5-Trichlorobenzene      | 12.88 | 180  | 343039   | 52.636  | uq/L  | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.50 | 180  | 292565   | 50.764  | uq/L  | 100      |
| 69) Naphthalene                 | 13.74 | 128  | 864157   | 47.261  | uq/L  | 100      |
| 70) 1,2,3-Trichlorobenzene      | 13.98 | 180  | 303425   | 50.457  | uq/L  | 99       |

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

