

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU010820\  
 Data File : VU036401.D  
 Acq On : 08 Jan 2020 11:20  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD05054

Quant Time: Jan 09 03:47:04 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM122719WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Jan 08 10:10:06 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 561586   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 546086   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.84 | 152  | 253016   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |        |
|--------------------------------|---------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.61    | 65    | 172507   | 39.42    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 78.84% |
| 7) Chloroethane-d5             | 1.93    | 69    | 153486   | 41.58    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 83.16% |
| 11) 1,1-Dichloroethene-d2      | 2.59    | 63    | 346421   | 46.47    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.94% |
| 21) 2-Butanone-d5              | 4.67    | 46    | 306958   | 94.20    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 94.20% |
| 24) Chloroform-d               | 5.11    | 84    | 378880   | 49.61    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.22% |
| 26) 1,2-Dichloroethane-d4      | 5.74    | 65    | 248647   | 49.10    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.20% |
| 32) Benzene-d6                 | 5.77    | 84    | 744147   | 48.95    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.90% |
| 36) 1,2-Dichloropropane-d6     | 6.73    | 67    | 247553   | 48.55    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.10% |
| 41) Toluene-d8                 | 7.93    | 98    | 712351   | 48.81    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.62% |
| 43) trans-1,3-Dichloropropene- | 8.21    | 79    | 131110   | 47.39    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 94.78% |
| 47) 2-Hexanone-d5              | 8.67    | 63    | 246549   | 93.76    | ug/L | 0.00   |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 93.76% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78   | 84    | 367356   | 47.50    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.00% |
| 64) 1,2-Dichlorobenzene-d4     | 12.21   | 152   | 244957   | 46.15    | ug/L | 0.00   |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.30% |

## Target Compounds

|                                |      |     |        |               | Qvalue |
|--------------------------------|------|-----|--------|---------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 202245 | 45.090 ug/L   | 100    |
| 3) Chloromethane               | 1.54 | 50  | 187075 | 45.839 ug/L   | 100    |
| 5) Vinyl chloride              | 1.62 | 62  | 194539 | 41.069 ug/L   | 99     |
| 6) Bromomethane                | 1.87 | 94  | 112948 | 49.340 ug/L   | 99     |
| 8) Chloroethane                | 1.95 | 64  | 116575 | 40.903 ug/L   | 96     |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 283608 | 42.587 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 163914 | 49.721 ug/L   | 99     |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 149750 | 46.081 ug/L   | 88     |
| 13) Acetone                    | 2.66 | 43  | 275641 | 81.553 ug/L   | 98     |
| 14) Carbon disulfide           | 2.82 | 76  | 412204 | 40.989 ug/L   | 99     |
| 15) Methyl Acetate             | 2.98 | 43  | 216983 | 47.741 ug/L   | 98     |
| 16) Methylene chloride         | 3.08 | 84  | 189157 | 47.550 ug/L   | 98     |
| 17) trans-1,2-Dichloroethene   | 3.39 | 96  | 165017 | 47.035 ug/L   | 98     |
| 18) Methyl tert-butyl Ether    | 3.41 | 73  | 614266 | 48.197 ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 3.92 | 63  | 337696 | 48.020 ug/L   | 97     |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96  | 201042 | 47.375 ug/L # | 96     |
| 22) 2-Butanone                 | 4.75 | 43  | 355642 | 89.071 ug/L   | 97     |

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 ClientSampleId :  
 VSTD05054

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 Quant Title : VOC Analysis  
 QLast Update : Wed Jan 08 10:10:06 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 23) Bromochloromethane         | 5.02  | 128  | 95111    | 46.689 | ug/L  | 97       |
| 25) Chloroform                 | 5.13  | 83   | 358905   | 47.898 | ug/L  | 97       |
| 27) 1,2-Dichloroethane         | 5.84  | 62   | 286487   | 49.460 | ug/L  | 98       |
| 29) Cyclohexane                | 5.43  | 56   | 299972   | 47.409 | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane      | 5.36  | 97   | 316200   | 47.243 | ug/L  | 99       |
| 31) Carbon tetrachloride       | 5.57  | 117  | 270931   | 46.698 | ug/L  | 100      |
| 33) Benzene                    | 5.81  | 78   | 761279   | 47.457 | ug/L  | 100      |
| 34) Trichloroethene            | 6.58  | 95   | 195536   | 47.281 | ug/L  | 98       |
| 35) Methylcyclohexane          | 6.80  | 83   | 318289   | 48.218 | ug/L  | 99       |
| 37) 1,2-Dichloropropane        | 6.83  | 63   | 207303   | 47.723 | ug/L  | 100      |
| 38) Bromodichloromethane       | 7.14  | 83   | 283981   | 46.341 | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene    | 7.64  | 75   | 348204   | 47.883 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone       | 7.83  | 43   | 658666   | 89.232 | ug/L  | 99       |
| 42) Toluene                    | 8.00  | 91   | 825001   | 46.704 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 8.24  | 75   | 311801   | 46.026 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane      | 8.43  | 97   | 200112   | 49.379 | ug/L  | 98       |
| 46) Tetrachloroethene          | 8.58  | 164  | 135038   | 45.382 | ug/L  | 97       |
| 48) 2-Hexanone                 | 8.72  | 43   | 493983   | 86.974 | ug/L  | 93       |
| 49) Dibromochloromethane       | 8.84  | 129  | 228092   | 45.854 | ug/L  | 96       |
| 50) 1,2-Dibromoethane          | 8.95  | 107  | 220562   | 46.929 | ug/L  | 97       |
| 51) Chlorobenzene              | 9.48  | 112  | 528114   | 47.367 | ug/L  | 100      |
| 52) Ethylbenzene               | 9.60  | 91   | 957249   | 47.613 | ug/L  | 99       |
| 53) m,p-Xylene                 | 9.72  | 106  | 352235   | 47.230 | ug/L  | 99       |
| 54) o-xylene                   | 10.12 | 106  | 350488   | 46.838 | ug/L  | 99       |
| 55) Styrene                    | 10.14 | 104  | 590069   | 46.637 | ug/L  | 100      |
| 56) Isopropylbenzene           | 10.51 | 105  | 934468   | 47.913 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.81 | 83   | 362377   | 47.306 | ug/L  | 99       |
| 59) 1,2,3-Trichloropropane     | 10.85 | 75   | 287284   | 47.137 | ug/L  | 99       |
| 61) Bromoform                  | 10.32 | 173  | 162355   | 43.181 | ug/L  | 99       |
| 62) 1,3-Dichlorobenzene        | 11.77 | 146  | 387856   | 47.437 | ug/L  | 96       |
| 63) 1,4-Dichlorobenzene        | 11.86 | 146  | 383731   | 47.312 | ug/L  | 98       |
| 65) 1,2-Dichlorobenzene        | 12.23 | 146  | 382941   | 46.746 | ug/L  | 97       |
| 66) 1,2-Dibromo-3-chloropropan | 13.02 | 75   | 80515    | 42.120 | ug/L  | 93       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 242164   | 44.602 | ug/L  | 99       |
| 68) 1,2,4-trichlorobenzene     | 13.86 | 180  | 168522   | 40.955 | ug/L  | 97       |
| 69) Naphthalene                | 14.11 | 128  | 537428   | 38.009 | ug/L  | 99       |
| 70) 1,2,3-Trichlorobenzene     | 14.35 | 180  | 174793   | 40.449 | ug/L  | 98       |

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

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