

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU101623\  
 Data File : VU055765.D  
 Acq On : 16 Oct 2023 09:37  
 Operator : MD/SY  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050115

Quant Time: Oct 17 05:00:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM101023WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 12 22:16:59 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.245   | 114   | 465191   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.415   | 117   | 476175   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.810  | 152   | 278086   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.599   | 65    | 190403   | 45.632   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 91.260%  |
| 7) Chloroethane-d5            | 1.898   | 69    | 155370   | 45.553   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 91.100%  |
| 11) 1,1-Dichloroethene-d2     | 2.563   | 63    | 371213   | 49.895   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 99.780%  |
| 21) 2-Butanone-d5             | 4.615   | 46    | 200912   | 64.982   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 64.980%  |
| 24) Chloroform-d              | 5.058   | 84    | 382746   | 47.848   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.700%  |
| 26) 1,2-Dichloroethane-d4     | 5.695   | 65    | 241084   | 48.964   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.920%  |
| 32) Benzene-d6                | 5.724   | 84    | 732802   | 48.098   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.200%  |
| 36) 1,2-Dichloropropane-d6    | 6.685   | 67    | 225020   | 46.653   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 93.300%  |
| 41) Toluene-d8                | 7.894   | 98    | 668896   | 48.622   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 97.240%  |
| 43) trans-1,3-Dichloroprop... | 8.177   | 79    | 108851   | 46.981   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 93.960%  |
| 47) 2-Hexanone-d5             | 8.630   | 63    | 111977   | 59.055   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 59.060%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.753  | 84    | 353140   | 47.567   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 95.140%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.190  | 152   | 273617   | 49.582   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 99.160%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.383   | 85    | 244202   | 63.046   | ug/L   | 100      |
| 3) Chloromethane              | 1.518   | 50    | 227058   | 61.951   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.605   | 62    | 239691   | 59.426   | ug/L   | 97       |
| 6) Bromomethane               | 1.833   | 94    | 132853   | 51.524   | ug/L   | 99       |
| 8) Chloroethane               | 1.920   | 64    | 150252   | 56.791   | ug/L   | 100      |
| 9) Trichlorofluoromethane     | 2.129   | 101   | 353648   | 61.367   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.576   | 101   | 216013   | 58.286   | ug/L   | 100      |
| 12) 1,1-Dichloroethene        | 2.576   | 96    | 189957   | 57.599   | ug/L   | 91       |
| 13) Acetone                   | 2.618   | 43    | 288197   | 100.446  | ug/L   | 99       |
| 14) Carbon disulfide          | 2.788   | 76    | 553407   | 55.141   | ug/L   | 98       |
| 15) Methyl Acetate            | 2.939   | 43    | 193066   | 43.938   | ug/L   | 95       |
| 16) Methylene chloride        | 3.039   | 84    | 225505   | 56.385   | ug/L   | 94       |
| 17) trans-1,2-Dichloroethene  | 3.348   | 96    | 194387   | 57.642   | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 3.357   | 73    | 639789   | 58.992   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.862   | 63    | 390871   | 56.519   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.660   | 96    | 223222   | 57.997   | ug/L   | 98       |
| 22) 2-Butanone                | 4.692   | 43    | 307073   | 88.794   | ug/L   | 100      |
| 23) Bromochloromethane        | 4.968   | 128   | 117480   | 58.938   | ug/L   | 96       |
| 25) Chloroform                | 5.081   | 83    | 412432   | 57.088   | ug/L   | 99       |

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 ClientSampleId :  
 VSTD050115

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 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 12 22:16:59 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.788  | 62   | 331561   | 57.382  | ug/L  | 100      |
| 29) Cyclohexane               | 5.383  | 56   | 323280   | 59.231  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane     | 5.309  | 97   | 364824   | 59.302  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.521  | 117  | 322076   | 59.811  | ug/L  | 98       |
| 33) Benzene                   | 5.769  | 78   | 872913   | 57.992  | ug/L  | 100      |
| 34) Trichloroethene           | 6.537  | 95   | 234924   | 57.040  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.759  | 83   | 350932   | 58.727  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.788  | 63   | 234528   | 56.583  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.100  | 83   | 320428   | 58.622  | ug/L  | 96       |
| 39) cis-1,3-Dichloropropene   | 7.605  | 75   | 375518   | 59.551  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.788  | 43   | 561509   | 97.379  | ug/L  | 98       |
| 42) Toluene                   | 7.965  | 91   | 939654   | 59.161  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.206  | 75   | 354733   | 58.794  | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.396  | 97   | 231746   | 56.703  | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.550  | 164  | 164843   | 55.902  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.682  | 43   | 492837   | 101.187 | ug/L  | 97       |
| 49) Dibromochloromethane      | 8.804  | 129  | 241833   | 57.910  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.920  | 107  | 244654   | 55.732  | ug/L  | 96       |
| 51) Chlorobenzene             | 9.444  | 112  | 595195   | 57.919  | ug/L  | 99       |
| 52) Ethylbenzene              | 9.566  | 91   | 1051146  | 60.534  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.692  | 106  | 409613   | 62.965  | ug/L  | 96       |
| 54) o-Xylene                  | 10.097 | 106  | 398102   | 63.239  | ug/L  | 97       |
| 55) Styrene                   | 10.113 | 104  | 704687   | 66.079  | ug/L  | 100      |
| 57) 1,1,2,2-Tetrachloroethane | 10.778 | 83   | 397319   | 56.775  | ug/L  | 99       |
| 59) Bromoform                 | 10.286 | 173  | 192012   | 56.090  | ug/L  | 96       |
| 60) 1,2,3-Trichloropropane    | 10.820 | 75   | 315061   | 52.203  | ug/L  | 99       |
| 61) Isopropylbenzene          | 10.483 | 105  | 1062285  | 61.276  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.087 | 105  | 898077   | 64.021  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.466 | 105  | 850915   | 61.345  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.743 | 146  | 518148   | 60.461  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146  | 512079   | 58.117  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.209 | 146  | 508997   | 59.849  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.994 | 75   | 79503    | 44.062  | ug/L  | 97       |
| 69) 1,3,5-Trichlorobenzene    | 13.216 | 180  | 326680   | 57.148  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.836 | 180  | 265009   | 55.657  | ug/L  | 100      |
| 71) Naphthalene               | 14.084 | 128  | 736971   | 52.104  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.328 | 180  | 257969   | 54.951  | ug/L  | 97       |

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

