

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU032223\  
 Data File : VU053364.D  
 Acq On : 22 Mar 2023 19:55  
 Operator : JC/MD  
 Sample : VSTDCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050172

Quant Time: Mar 23 03:57:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM031523WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Mar 23 02:41:20 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.243   | 114   | 106170   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.411   | 117   | 104140   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.806  | 152   | 52522    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 40002    | 40.840   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 81.680%  |
| 7) Chloroethane-d5            | 1.912   | 69    | 40418    | 51.015   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 102.020% |
| 11) 1,1-Dichloroethene-d2     | 2.568   | 63    | 71434    | 42.100   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 84.200%  |
| 21) 2-Butanone-d5             | 4.620   | 46    | 52979    | 116.620  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 116.620% |
| 24) Chloroform-d              | 5.057   | 84    | 71920    | 44.581   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 89.160%  |
| 26) 1,2-Dichloroethane-d4     | 5.697   | 65    | 48296    | 48.204   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.400%  |
| 32) Benzene-d6                | 5.723   | 84    | 145950   | 43.208   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 86.420%  |
| 36) 1,2-Dichloropropane-d6    | 6.687   | 67    | 47994    | 44.024   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 88.040%  |
| 41) Toluene-d8                | 7.893   | 98    | 137776   | 43.810   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 87.620%  |
| 43) trans-1,3-Dichloroprop... | 8.176   | 79    | 23376    | 43.460   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 86.920%  |
| 47) 2-Hexanone-d5             | 8.626   | 63    | 35950    | 105.478  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 105.480% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751  | 84    | 72216    | 51.136   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 102.280% |
| 66) 1,2-Dichlorobenzene-d4    | 12.189  | 152   | 48459    | 47.650   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 95.300%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 42261    | 38.135   | ug/L   | 100      |
| 3) Chloromethane              | 1.520   | 50    | 42985    | 42.095   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.604   | 62    | 49680    | 44.474   | ug/L   | 99       |
| 6) Bromomethane               | 1.858   | 94    | 34134    | 50.835   | ug/L   | 97       |
| 8) Chloroethane               | 1.932   | 64    | 36258    | 54.950   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.137   | 101   | 63628    | 45.653   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578   | 101   | 34816    | 41.295   | ug/L   | 97       |
| 12) 1,1-Dichloroethene        | 2.578   | 96    | 31784    | 40.764   | ug/L   | 92       |
| 13) Acetone                   | 2.633   | 43    | 40928    | 79.104   | ug/L   | 95       |
| 14) Carbon disulfide          | 2.790   | 76    | 89210    | 37.775   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.945   | 43    | 39473    | 55.660   | ug/L   | 99       |
| 16) Methylene chloride        | 3.044   | 84    | 40404    | 42.715   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 31612    | 39.959   | ug/L   | 96       |
| 18) Methyl tert-butyl Ether   | 3.359   | 73    | 122513   | 46.054   | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.864   | 63    | 73180    | 45.316   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.661   | 96    | 40940    | 44.059   | ug/L   | 92       |
| 22) 2-Butanone                | 4.700   | 43    | 61907    | 105.025  | ug/L   | 97       |
| 23) Bromochloromethane        | 4.970   | 128   | 19380    | 43.741   | ug/L   | 89       |
| 25) Chloroform                | 5.079   | 83    | 74222    | 45.930   | ug/L   | 99       |

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 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050172

Quant Time: Mar 23 03:57:11 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM031523WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Mar 23 02:41:20 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.790  | 62   | 62901    | 49.309  | ug/L   | 98       |
| 29) Cyclohexane               | 5.385  | 56   | 64301    | 41.438  | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 5.311  | 97   | 60160    | 42.381  | ug/L   | 97       |
| 31) Carbon tetrachloride      | 5.517  | 117  | 48055    | 41.322  | ug/L   | 98       |
| 33) Benzene                   | 5.768  | 78   | 163309   | 45.232  | ug/L   | 100      |
| 34) Trichloroethene           | 6.536  | 95   | 41104    | 43.663  | ug/L   | 98       |
| 35) Methylcyclohexane         | 6.758  | 83   | 66617    | 40.370  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 47337    | 46.994  | ug/L   | 100      |
| 38) Bromodichloromethane      | 7.099  | 83   | 55146    | 43.992  | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene   | 7.604  | 75   | 73350    | 44.322  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 7.784  | 43   | 118001   | 113.972 | ug/L   | 97       |
| 42) Toluene                   | 7.964  | 91   | 175953   | 45.331  | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.205  | 75   | 68797    | 45.477  | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane     | 8.394  | 97   | 43128    | 47.021  | ug/L   | 96       |
| 46) Tetrachloroethene         | 8.549  | 164  | 25534    | 41.690  | ug/L   | 98       |
| 48) 2-Hexanone                | 8.677  | 43   | 92427    | 106.607 | ug/L   | 97       |
| 49) Dibromochloromethane      | 8.806  | 129  | 39127    | 41.702  | ug/L   | 95       |
| 50) 1,2-Dibromoethane         | 8.919  | 107  | 45568    | 46.625  | ug/L   | 99       |
| 51) Chlorobenzene             | 9.443  | 112  | 109086   | 45.093  | ug/L   | 97       |
| 52) Ethylbenzene              | 9.565  | 91   | 198068   | 44.998  | ug/L   | 97       |
| 53) m,p-Xylene                | 9.690  | 106  | 72449    | 44.099  | ug/L   | 99       |
| 54) o-Xylene                  | 10.095 | 106  | 71858    | 44.224  | ug/L   | 100      |
| 55) Styrene                   | 10.108 | 104  | 124577   | 46.002  | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 77572    | 51.585  | ug/L   | 98       |
| 59) Bromoform                 | 10.285 | 173  | 25769    | 43.114  | ug/L # | 96       |
| 60) 1,2,3-Trichloropropane    | 10.819 | 75   | 59653    | 57.157  | ug/L   | 97       |
| 61) Isopropylbenzene          | 10.478 | 105  | 192535   | 46.396  | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.082 | 105  | 156652   | 45.604  | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.462 | 105  | 152648   | 45.590  | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 79597    | 45.735  | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 80361    | 45.994  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 80036    | 46.011  | ug/L   | 100      |
| 68) 1,2-Dibromo-3-chloropr... | 12.989 | 75   | 16015    | 55.492  | ug/L   | 90       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 48031    | 43.529  | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 44536    | 44.920  | ug/L   | 99       |
| 71) Naphthalene               | 14.082 | 128  | 170218   | 50.937  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.323 | 180  | 45131    | 48.000  | ug/L   | 99       |

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

