

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU031723\  
 Data File : VU053255.D  
 Acq On : 17 Mar 2023 10:03  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050164

Quant Time: Mar 18 01:46:13 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM031523WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 17 04:28:43 2023  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|-------|----------|
| -----                         |                |      |            |          |       |          |
| Internal Standards            |                |      |            |          |       |          |
| 1) 1,4-Difluorobenzene        | 6.244          | 114  | 165460     | 50.000   | ug/L  | 0.00     |
| 28) Chlorobenzene-d5          | 9.414          | 117  | 152591     | 50.000   | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809         | 152  | 74664      | 50.000   | ug/L  | 0.00     |
|                               |                |      |            |          |       |          |
| System Monitoring Compounds   |                |      |            |          |       |          |
| 4) Vinyl Chloride-d3          | 1.597          | 65   | 68198      | 44.677   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 89.360%  |       |          |
| 7) Chloroethane-d5            | 1.912          | 69   | 58842      | 47.656   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 95.320%  |       |          |
| 11) 1,1-Dichloroethene-d2     | 2.565          | 63   | 121053     | 45.779   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 91.560%  |       |          |
| 21) 2-Butanone-d5             | 4.620          | 46   | 75076      | 106.043  | ug/L  | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 106.040% |       |          |
| 24) Chloroform-d              | 5.057          | 84   | 120449     | 47.908   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 95.820%  |       |          |
| 26) 1,2-Dichloroethane-d4     | 5.697          | 65   | 76435      | 48.953   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 97.900%  |       |          |
| 32) Benzene-d6                | 5.723          | 84   | 248930     | 50.296   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 100.600% |       |          |
| 36) 1,2-Dichloropropane-d6    | 6.684          | 67   | 81997      | 51.332   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 102.660% |       |          |
| 41) Toluene-d8                | 7.893          | 98   | 225271     | 48.887   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 97.780%  |       |          |
| 43) trans-1,3-Dichloroprop... | 8.173          | 79   | 39216      | 49.759   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 99.520%  |       |          |
| 47) 2-Hexanone-d5             | 8.626          | 63   | 54332      | 108.795  | ug/L  | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 108.790% |       |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751         | 84   | 105955     | 51.204   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 102.400% |       |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.189         | 152  | 73978      | 51.171   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 102.340% |       |          |
|                               |                |      |            |          |       |          |
| Target Compounds              |                |      |            |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.385          | 85   | 73572      | 42.599   | ug/L  | 100      |
| 3) Chloromethane              | 1.517          | 50   | 69766      | 43.839   | ug/L  | 100      |
| 5) Vinyl chloride             | 1.604          | 62   | 77096      | 44.286   | ug/L  | 99       |
| 6) Bromomethane               | 1.855          | 94   | 53909      | 51.516   | ug/L  | 98       |
| 8) Chloroethane               | 1.932          | 64   | 47393      | 46.088   | ug/L  | 99       |
| 9) Trichlorofluoromethane     | 2.138          | 101  | 97132      | 44.719   | ug/L  | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.581          | 101  | 56792      | 43.223   | ug/L  | 96       |
| 12) 1,1-Dichloroethene        | 2.578          | 96   | 50970      | 41.946   | ug/L  | 90       |
| 13) Acetone                   | 2.626          | 43   | 75600      | 93.758   | ug/L  | 99       |
| 14) Carbon disulfide          | 2.790          | 76   | 154229     | 41.906   | ug/L  | 99       |
| 15) Methyl Acetate            | 2.945          | 43   | 52137      | 47.174   | ug/L  | 97       |
| 16) Methylene chloride        | 3.041          | 84   | 60093      | 40.765   | ug/L  | 93       |
| 17) trans-1,2-Dichloroethene  | 3.350          | 96   | 52481      | 42.567   | ug/L  | 92       |
| 18) Methyl tert-butyl Ether   | 3.359          | 73   | 188679     | 45.511   | ug/L  | 99       |
| 19) 1,1-Dichloroethane        | 3.864          | 63   | 113947     | 45.276   | ug/L  | 98       |
| 20) cis-1,2-Dichloroethene    | 4.662          | 96   | 62849      | 43.400   | ug/L  | 92       |
| 22) 2-Butanone                | 4.697          | 43   | 87847      | 95.628   | ug/L  | 99       |
| 23) Bromochloromethane        | 4.970          | 128  | 28518      | 41.302   | ug/L  | 85       |
| 25) Chloroform                | 5.083          | 83   | 114284     | 45.379   | ug/L  | 100      |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050164

Quant Time: Mar 18 01:46:13 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM031523WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Mar 17 04:28:43 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.790  | 62   | 92693    | 46.625 | ug/L  | 98       |
| 29) Cyclohexane               | 5.385  | 56   | 105876   | 46.566 | ug/L  | 99       |
| 30) 1,1,1-Trichloroethane     | 5.311  | 97   | 94980    | 45.665 | ug/L  | 98       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 76370    | 44.818 | ug/L  | 99       |
| 33) Benzene                   | 5.771  | 78   | 252519   | 47.733 | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 62891    | 45.594 | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.758  | 83   | 114479   | 47.347 | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 71608    | 48.517 | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.102  | 83   | 86492    | 47.089 | ug/L  | 98       |
| 39) cis-1,3-Dichloropropene   | 7.604  | 75   | 116377   | 47.993 | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.787  | 43   | 149119   | 98.296 | ug/L  | 100      |
| 42) Toluene                   | 7.964  | 91   | 264951   | 46.586 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.205  | 75   | 106177   | 47.901 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane     | 8.395  | 97   | 62199    | 46.281 | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.549  | 164  | 40531    | 45.164 | ug/L  | 97       |
| 48) 2-Hexanone                | 8.677  | 43   | 126472   | 99.556 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.806  | 129  | 60359    | 43.905 | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 8.919  | 107  | 65872    | 45.999 | ug/L  | 99       |
| 51) Chlorobenzene             | 9.443  | 112  | 161811   | 45.649 | ug/L  | 98       |
| 52) Ethylbenzene              | 9.565  | 91   | 303119   | 46.998 | ug/L  | 98       |
| 53) m,p-Xylene                | 9.690  | 106  | 112678   | 46.808 | ug/L  | 99       |
| 54) o-Xylene                  | 10.095 | 106  | 110747   | 46.516 | ug/L  | 100      |
| 55) Styrene                   | 10.111 | 104  | 185614   | 46.777 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 105552   | 47.904 | ug/L  | 98       |
| 59) Bromoform                 | 10.288 | 173  | 40011    | 47.090 | ug/L  | 99       |
| 60) 1,2,3-Trichloropropane    | 10.819 | 75   | 79154    | 53.351 | ug/L  | 98       |
| 61) Isopropylbenzene          | 10.481 | 105  | 299605   | 50.787 | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.083 | 105  | 244894   | 50.151 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.462 | 105  | 235188   | 49.411 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 120178   | 48.574 | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 120282   | 48.427 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 118263   | 47.825 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 21980    | 53.575 | ug/L  | 93       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 76465    | 48.747 | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 69873    | 49.575 | ug/L  | 99       |
| 71) Naphthalene               | 14.082 | 128  | 245862   | 51.755 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 69814    | 52.232 | ug/L  | 98       |

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

