

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU112522\  
 Data File : VU052138.D  
 Acq On : 25 Nov 2022 12:56  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050135

Quant Time: Nov 25 21:02:32 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM112122WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 25 21:01:09 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247   | 114   | 477070   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414   | 117   | 467436   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152   | 236857   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.601   | 65    | 193724   | 46.859   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 93.720%  |
| 7) Chloroethane-d5            | 1.906   | 69    | 157276   | 48.036   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 96.080%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 298699   | 48.743   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 97.480%  |
| 21) 2-Butanone-d5             | 4.617   | 46    | 223150   | 89.823   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 89.820%  |
| 24) Chloroform-d              | 5.060   | 84    | 315476   | 46.575   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.140%  |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 185230   | 45.468   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 90.940%  |
| 32) Benzene-d6                | 5.726   | 84    | 663039   | 47.588   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 95.180%  |
| 36) 1,2-Dichloropropane-d6    | 6.687   | 67    | 207353   | 46.325   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 92.640%  |
| 41) Toluene-d8                | 7.896   | 98    | 606997   | 48.761   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 97.520%  |
| 43) trans-1,3-Dichloroprop... | 8.176   | 79    | 86442    | 45.366   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 90.740%  |
| 47) 2-Hexanone-d5             | 8.629   | 63    | 164947   | 94.468   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 94.470%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.752  | 84    | 317134   | 44.785   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 89.560%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.189  | 152   | 211153   | 43.109   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 86.220%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 130688   | 51.030   | ug/L   | 98       |
| 3) Chloromethane              | 1.524   | 50    | 186066   | 50.697   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.604   | 62    | 188707   | 50.077   | ug/L   | 99       |
| 6) Bromomethane               | 1.845   | 94    | 74677    | 39.481   | ug/L   | 100      |
| 8) Chloroethane               | 1.929   | 64    | 123663   | 50.045   | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 2.138   | 101   | 233423   | 51.816   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.581   | 101   | 152359   | 52.674   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.578   | 96    | 141394   | 51.185   | ug/L   | 99       |
| 13) Acetone                   | 2.620   | 43    | 231175   | 101.864  | ug/L   | 98       |
| 14) Carbon disulfide          | 2.790   | 76    | 335412   | 48.018   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.945   | 43    | 185564   | 51.216   | ug/L   | 99       |
| 16) Methylene chloride        | 3.044   | 84    | 201431   | 47.876   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 3.353   | 96    | 146608   | 49.881   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 3.360   | 73    | 466389   | 48.853   | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 3.868   | 63    | 306331   | 50.660   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.665   | 96    | 171256   | 48.531   | ug/L   | 96       |
| 22) 2-Butanone                | 4.697   | 43    | 287878   | 101.738  | ug/L   | 99       |
| 23) Bromochloromethane        | 4.970   | 128   | 94611    | 49.809   | ug/L   | 96       |
| 25) Chloroform                | 5.086   | 83    | 318417   | 51.033   | ug/L   | 98       |

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 ALS Vial : 8 Sample Multiplier: 1

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 ClientSampleId :  
 VSTD050135

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 Quant Title : VOC Analysis  
 QLast Update : Fri Nov 25 21:01:09 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.790  | 62   | 235357   | 50.281  | ug/L  | 99       |
| 29) Cyclohexane               | 5.388  | 56   | 213906   | 52.184  | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane     | 5.314  | 97   | 245179   | 51.148  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.523  | 117  | 204190   | 52.614  | ug/L  | 98       |
| 33) Benzene                   | 5.771  | 78   | 711667   | 51.392  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 158417   | 49.030  | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.761  | 83   | 236833   | 53.482  | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 195666   | 50.578  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.102  | 83   | 237377   | 49.698  | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 7.604  | 75   | 250418   | 47.870  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.787  | 43   | 509046   | 103.457 | ug/L  | 100      |
| 42) Toluene                   | 7.967  | 91   | 747722   | 52.254  | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 246194   | 50.315  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 193596   | 50.764  | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.549  | 164  | 120504   | 49.437  | ug/L  | 99       |
| 48) 2-Hexanone                | 8.681  | 43   | 426456   | 104.735 | ug/L  | 100      |
| 49) Dibromochloromethane      | 8.806  | 129  | 194097   | 50.080  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 192370   | 50.224  | ug/L  | 100      |
| 51) Chlorobenzene             | 9.443  | 112  | 465194   | 49.411  | ug/L  | 100      |
| 52) Ethylbenzene              | 9.568  | 91   | 737861   | 50.643  | ug/L  | 97       |
| 53) m,p-Xylene                | 9.690  | 106  | 294062   | 52.238  | ug/L  | 98       |
| 54) o-Xylene                  | 10.099 | 106  | 293032   | 51.447  | ug/L  | 97       |
| 55) Styrene                   | 10.112 | 104  | 520532   | 53.944  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 355760   | 51.264  | ug/L  | 99       |
| 59) Bromoform                 | 10.289 | 173  | 147132   | 47.964  | ug/L  | 98       |
| 60) 1,2,3-Trichloropropane    | 10.819 | 75   | 267032   | 48.552  | ug/L  | 100      |
| 61) Isopropylbenzene          | 10.481 | 105  | 737447   | 51.025  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 587350   | 50.867  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 581774   | 51.701  | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 349372   | 49.867  | ug/L  | 99       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 343033   | 48.052  | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 366983   | 49.993  | ug/L  | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.993 | 75   | 64429    | 47.548  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 227364   | 48.610  | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 172652   | 45.952  | ug/L  | 98       |
| 71) Naphthalene               | 14.083 | 128  | 582964   | 47.659  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 202051   | 49.638  | ug/L  | 99       |

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

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