

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\U041323\  
 Data File : VU053677.D  
 Acq On : 13 Apr 2023 09:55  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050197

Quant Time: Apr 14 01:49:58 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM033123WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 13 01:39:36 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.243   | 114   | 260258   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.414   | 117   | 249388   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152   | 138416   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 83517    | 41.212   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 82.420%  |
| 7) Chloroethane-d5            | 1.899   | 69    | 66647    | 42.654   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 85.300%  |
| 11) 1,1-Dichloroethene-d2     | 2.562   | 63    | 130234   | 41.515   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 83.040%  |
| 21) 2-Butanone-d5             | 4.613   | 46    | 89248    | 97.270   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 97.270%  |
| 24) Chloroform-d              | 5.057   | 84    | 139106   | 41.505   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 83.020%  |
| 26) 1,2-Dichloroethane-d4     | 5.697   | 65    | 85015    | 42.928   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 85.860%  |
| 32) Benzene-d6                | 5.722   | 84    | 277246   | 41.185   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 82.380%  |
| 36) 1,2-Dichloropropane-d6    | 6.684   | 67    | 88150    | 42.842   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 85.680%  |
| 41) Toluene-d8                | 7.893   | 98    | 260795   | 38.979   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 77.960%# |
| 43) trans-1,3-Dichloroprop... | 8.172   | 79    | 40123    | 37.777   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 75.560%  |
| 47) 2-Hexanone-d5             | 8.626   | 63    | 72155    | 102.753  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 102.750% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751  | 84    | 132076   | 45.543   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 91.080%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.188  | 152   | 108857   | 37.677   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 75.360%# |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.382   | 85    | 86070    | 40.746   | ug/L   | 99       |
| 3) Chloromethane              | 1.520   | 50    | 84267    | 48.548   | ug/L   | 100      |
| 5) Vinyl chloride             | 1.600   | 62    | 103422   | 51.413   | ug/L   | 100      |
| 6) Bromomethane               | 1.838   | 94    | 61992    | 42.353   | ug/L   | 96       |
| 8) Chloroethane               | 1.922   | 64    | 63575    | 52.547   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.131   | 101   | 142265   | 45.980   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.575   | 101   | 78170    | 43.624   | ug/L   | 92       |
| 12) 1,1-Dichloroethene        | 2.575   | 96    | 69905    | 43.774   | ug/L   | 97       |
| 13) Acetone                   | 2.620   | 43    | 63308    | 76.776   | ug/L   | 97       |
| 14) Carbon disulfide          | 2.787   | 76    | 179039   | 42.382   | ug/L   | 98       |
| 15) Methyl Acetate            | 2.941   | 43    | 70120    | 55.518   | ug/L   | 99       |
| 16) Methylene chloride        | 3.041   | 84    | 81678    | 45.504   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.346   | 96    | 69728    | 43.446   | ug/L   | 95       |
| 18) Methyl tert-butyl Ether   | 3.356   | 73    | 226076   | 48.327   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.861   | 63    | 130877   | 49.228   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.658   | 96    | 82223    | 44.354   | ug/L   | 91       |
| 22) 2-Butanone                | 4.694   | 43    | 100313   | 100.416  | ug/L   | 98       |
| 23) Bromochloromethane        | 4.967   | 128   | 44016    | 42.627   | ug/L   | 91       |
| 25) Chloroform                | 5.083   | 83    | 143906   | 47.193   | ug/L   | 99       |

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Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050197

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 Quant Title : VOC Analysis  
 QLast Update : Thu Apr 13 01:39:36 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.787  | 62   | 110414   | 49.443  | ug/L  | 95       |
| 29) Cyclohexane               | 5.382  | 56   | 107566   | 44.804  | ug/L  | 96       |
| 30) 1,1,1-Trichloroethane     | 5.308  | 97   | 119866   | 43.620  | ug/L  | 97       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 104353   | 42.385  | ug/L  | 99       |
| 33) Benzene                   | 5.767  | 78   | 302937   | 46.623  | ug/L  | 100      |
| 34) Trichloroethene           | 6.536  | 95   | 82692    | 42.078  | ug/L  | 94       |
| 35) Methylcyclohexane         | 6.758  | 83   | 125525   | 43.453  | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.787  | 63   | 82097    | 49.760  | ug/L  | 98       |
| 38) Bromodichloromethane      | 7.102  | 83   | 101776   | 46.241  | ug/L  | 95       |
| 39) cis-1,3-Dichloropropene   | 7.603  | 75   | 122911   | 45.589  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.787  | 43   | 195232   | 108.892 | ug/L  | 98       |
| 42) Toluene                   | 7.967  | 91   | 330681   | 44.908  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.205  | 75   | 115893   | 45.470  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.394  | 97   | 84729    | 46.775  | ug/L  | 97       |
| 46) Tetrachloroethene         | 8.549  | 164  | 63144    | 38.719  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.677  | 43   | 153629   | 105.929 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.806  | 129  | 81068    | 43.041  | ug/L  | 93       |
| 50) 1,2-Dibromoethane         | 8.918  | 107  | 90662    | 44.736  | ug/L  | 100      |
| 51) Chlorobenzene             | 9.443  | 112  | 218990   | 43.164  | ug/L  | 96       |
| 52) Ethylbenzene              | 9.568  | 91   | 366774   | 44.745  | ug/L  | 100      |
| 53) m,p-Xylene                | 9.690  | 106  | 141999   | 44.294  | ug/L  | 97       |
| 54) o-Xylene                  | 10.095 | 106  | 139305   | 43.951  | ug/L  | 95       |
| 55) Styrene                   | 10.111 | 104  | 237683   | 46.039  | ug/L  | 99       |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 142030   | 53.403  | ug/L  | 96       |
| 59) Bromoform                 | 10.288 | 173  | 60056    | 42.389  | ug/L  | 97       |
| 60) 1,2,3-Trichloropropane    | 10.819 | 75   | 108106   | 53.865  | ug/L  | 98       |
| 61) Isopropylbenzene          | 10.481 | 105  | 370863   | 45.318  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 311015   | 45.718  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 307493   | 45.637  | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 11.741 | 146  | 179043   | 41.870  | ug/L  | 97       |
| 65) 1,4-Dichlorobenzene       | 11.832 | 146  | 186510   | 42.795  | ug/L  | 97       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 182930   | 42.923  | ug/L  | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 29536    | 55.204  | ug/L  | 87       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 123828   | 39.105  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 114745   | 39.084  | ug/L  | 98       |
| 71) Naphthalene               | 14.082 | 128  | 402989   | 45.860  | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 118570   | 40.435  | ug/L  | 98       |

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

