

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU093022\  
 Data File : VU051052.D  
 Acq On : 30 Sep 2022 22:23  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050103

Quant Time: Oct 01 01:30:38 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092922WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 01 01:23:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247   | 114   | 485745   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 473919   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809  | 152   | 226393   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 208451   | 42.344   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 84.680%  |
| 7) Chloroethane-d5            | 1.909   | 69    | 191888   | 41.962   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 83.920%  |
| 11) 1,1-Dichloroethene-d2     | 2.565   | 63    | 327445   | 45.030   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 90.060%  |
| 21) 2-Butanone-d5             | 4.629   | 46    | 343915   | 107.714  | ug/L   | 0.01     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 107.710% |
| 24) Chloroform-d              | 5.060   | 84    | 363236   | 45.798   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.600%  |
| 26) 1,2-Dichloroethane-d4     | 5.700   | 65    | 230396   | 46.932   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.860%  |
| 32) Benzene-d6                | 5.726   | 84    | 733235   | 52.834   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 105.660% |
| 36) 1,2-Dichloropropane-d6    | 6.687   | 67    | 244134   | 54.212   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 108.420% |
| 41) Toluene-d8                | 7.896   | 98    | 666847   | 52.007   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 104.020% |
| 43) trans-1,3-Dichloroprop... | 8.176   | 79    | 98276    | 45.753   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 91.500%  |
| 47) 2-Hexanone-d5             | 8.636   | 63    | 201647   | 110.894  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 110.890% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755  | 84    | 376314   | 47.814   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 95.620%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.192  | 152   | 236286   | 48.856   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 97.720%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 176462   | 43.323   | ug/L   | 99       |
| 3) Chloromethane              | 1.520   | 50    | 229018   | 47.588   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.604   | 62    | 227509   | 44.545   | ug/L   | 99       |
| 6) Bromomethane               | 1.858   | 94    | 134366   | 31.760   | ug/L   | 100      |
| 8) Chloroethane               | 1.929   | 64    | 165753   | 44.196   | ug/L   | 97       |
| 9) Trichlorofluoromethane     | 2.131   | 101   | 264931   | 38.577   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578   | 101   | 152642   | 41.163   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.578   | 96    | 156109   | 45.067   | ug/L   | 92       |
| 13) Acetone                   | 2.639   | 43    | 232941   | 91.364   | ug/L   | 96       |
| 14) Carbon disulfide          | 2.790   | 76    | 463611   | 45.277   | ug/L   | 100      |
| 15) Methyl Acetate            | 2.951   | 43    | 240090   | 51.579   | ug/L   | 96       |
| 16) Methylene chloride        | 3.041   | 84    | 220126   | 44.267   | ug/L   | 98       |
| 17) trans-1,2-Dichloroethene  | 3.350   | 96    | 168966   | 45.850   | ug/L   | 99       |
| 18) Methyl tert-butyl Ether   | 3.363   | 73    | 569991   | 50.896   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.864   | 63    | 335747   | 47.963   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.665   | 96    | 199258   | 48.426   | ug/L   | 97       |
| 22) 2-Butanone                | 4.707   | 43    | 359978   | 102.190  | ug/L   | 98       |
| 23) Bromochloromethane        | 4.973   | 128   | 101723   | 45.120   | ug/L   | 93       |
| 25) Chloroform                | 5.086   | 83    | 354992   | 46.622   | ug/L   | 99       |

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 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD050103

Quant Time: Oct 01 01:30:38 2022  
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 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 01 01:23:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.793  | 62   | 275201   | 47.183  | ug/L  | 100      |
| 29) Cyclohexane               | 5.385  | 56   | 254476   | 55.146  | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 5.314  | 97   | 278339   | 50.079  | ug/L  | 99       |
| 31) Carbon tetrachloride      | 5.523  | 117  | 218469   | 48.176  | ug/L  | 98       |
| 33) Benzene                   | 5.771  | 78   | 786664   | 54.447  | ug/L  | 100      |
| 34) Trichloroethene           | 6.539  | 95   | 192263   | 51.376  | ug/L  | 96       |
| 35) Methylcyclohexane         | 6.761  | 83   | 250921   | 49.264  | ug/L  | 97       |
| 37) 1,2-Dichloropropane       | 6.790  | 63   | 210041   | 53.984  | ug/L  | 100      |
| 38) Bromodichloromethane      | 7.105  | 83   | 263238   | 50.697  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.604  | 75   | 267164   | 48.485  | ug/L  | 100      |
| 40) 4-Methyl-2-pentanone      | 7.790  | 43   | 670957   | 119.077 | ug/L  | 98       |
| 42) Toluene                   | 7.967  | 91   | 830460   | 54.038  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene | 8.208  | 75   | 258388   | 46.378  | ug/L  | 97       |
| 45) 1,1,2-Trichloroethane     | 8.398  | 97   | 208257   | 49.415  | ug/L  | 99       |
| 46) Tetrachloroethene         | 8.552  | 164  | 122422   | 43.167  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.684  | 43   | 576895   | 112.721 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.806  | 129  | 208074   | 46.959  | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.922  | 107  | 224347   | 49.098  | ug/L  | 97       |
| 51) Chlorobenzene             | 9.443  | 112  | 507392   | 48.549  | ug/L  | 98       |
| 52) Ethylbenzene              | 9.568  | 91   | 836175   | 51.009  | ug/L  | 98       |
| 53) m,p-Xylene                | 9.690  | 106  | 319304   | 51.798  | ug/L  | 97       |
| 54) o-Xylene                  | 10.099 | 106  | 321536   | 52.185  | ug/L  | 99       |
| 55) Styrene                   | 10.111 | 104  | 560547   | 52.637  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.780 | 83   | 371572   | 49.817  | ug/L  | 99       |
| 59) Bromoform                 | 10.288 | 173  | 156014   | 46.836  | ug/L  | 97       |
| 60) 1,2,3-Trichloropropane    | 10.822 | 75   | 303200   | 50.892  | ug/L  | 98       |
| 61) Isopropylbenzene          | 10.481 | 105  | 785860   | 53.435  | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.086 | 105  | 664067   | 55.220  | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.465 | 105  | 665624   | 55.225  | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.742 | 146  | 356387   | 47.006  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.835 | 146  | 358916   | 47.358  | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 12.211 | 146  | 377917   | 48.516  | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 86824    | 49.939  | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 13.217 | 180  | 233021   | 45.323  | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.838 | 180  | 190350   | 45.251  | ug/L  | 100      |
| 71) Naphthalene               | 14.082 | 128  | 781981   | 51.938  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.327 | 180  | 217395   | 46.313  | ug/L  | 99       |

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

