

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120624\  
 Data File : VX044162.D  
 Acq On : 06 Dec 2024 08:54  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTD050797

Quant Time: Dec 07 03:53:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXLM120524WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 06 03:51:43 2024  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.751   | 114   | 206319   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.049  | 117   | 176121   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.018  | 152   | 80145    | 50.000   | ug/L   | 0.00     |
|                               |         |       |          |          |        |          |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.368   | 65    | 82274    | 43.576   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 87.160%  |
| 7) Chloroethane-d5            | 1.648   | 69    | 60011    | 41.031   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 82.060%  |
| 11) 1,1-Dichloroethene-d2     | 2.294   | 65    | 35767    | 44.295   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 88.600%  |
| 21) 2-Butanone-d5             | 4.452   | 46    | 107433   | 92.938   | ug/L   | -0.01    |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 92.940%  |
| 24) Chloroform-d              | 5.044   | 84    | 163197   | 45.524   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 91.040%  |
| 26) 1,2-Dichloroethane-d4     | 5.946   | 65    | 107887   | 42.557   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 85.120%  |
| 32) Benzene-d6                | 5.958   | 84    | 281188   | 46.206   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 92.420%  |
| 36) 1,2-Dichloropropane-d6    | 7.299   | 67    | 87410    | 46.258   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 92.520%  |
| 41) Toluene-d8                | 8.641   | 98    | 248481   | 44.160   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 88.320%  |
| 43) trans-1,3-Dichloroprop... | 8.945   | 79    | 40333    | 44.416   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 88.840%  |
| 47) 2-Hexanone-d5             | 9.384   | 63    | 68524    | 93.006   | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 93.010%  |
| 56) 1,1,2,2-Tetrachloroeth... | 11.189  | 84    | 118904   | 46.928   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 93.860%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.317  | 152   | 85511    | 45.793   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 91.580%  |
|                               |         |       |          |          |        |          |
| Target Compounds              |         |       |          | Qvalue   |        |          |
| 2) Dichlorodifluoromethane    | 1.166   | 85    | 88511    | 52.900   | ug/L   | 100      |
| 3) Chloromethane              | 1.294   | 50    | 73515    | 47.628   | ug/L   | 98       |
| 5) Vinyl chloride             | 1.374   | 62    | 82501    | 49.542   | ug/L   | 96       |
| 6) Bromomethane               | 1.593   | 94    | 53540    | 47.303   | ug/L   | 97       |
| 8) Chloroethane               | 1.666   | 64    | 52663    | 47.769   | ug/L   | 95       |
| 9) Trichlorofluoromethane     | 1.867   | 101   | 171298   | 55.208   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.319   | 101   | 74715    | 54.677   | ug/L   | 92       |
| 12) 1,1-Dichloroethene        | 2.306   | 96    | 60999    | 50.152   | ug/L # | 53       |
| 13) Acetone                   | 2.380   | 43    | 97450    | 94.740   | ug/L   | 90       |
| 14) Carbon disulfide          | 2.502   | 76    | 111638   | 48.452   | ug/L   | 98       |
| 15) Methyl Acetate            | 2.703   | 43    | 81886    | 49.093   | ug/L   | 97       |
| 16) Methylene chloride        | 2.782   | 84    | 69144    | 49.401   | ug/L   | 88       |
| 17) trans-1,2-Dichloroethene  | 3.087   | 96    | 64768    | 51.129   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 3.111   | 73    | 250627   | 49.032   | ug/L   | 97       |
| 19) 1,1-Dichloroethane        | 3.599   | 63    | 132216   | 49.753   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.477   | 96    | 77434    | 50.003   | ug/L   | 94       |
| 22) 2-Butanone                | 4.556   | 43    | 121344   | 97.741   | ug/L   | 97       |
| 23) Bromochloromethane        | 4.885   | 128   | 37604    | 49.793   | ug/L # | 86       |
| 25) Chloroform                | 5.080   | 83    | 150457   | 50.305   | ug/L   | 94       |

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 ALS Vial : 2 Sample Multiplier: 1

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 ClientSampleId :  
 VSTD050797

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 Quant Title : VOC Analysis  
 QLast Update : Fri Dec 06 03:51:43 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 6.080  | 62   | 125480   | 50.464  | ug/L   | 96       |
| 29) Cyclohexane               | 5.458  | 56   | 120275   | 55.040  | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane     | 5.367  | 97   | 130049   | 54.396  | ug/L   | 97       |
| 31) Carbon tetrachloride      | 5.666  | 117  | 103777   | 55.419  | ug/L   | 98       |
| 33) Benzene                   | 6.025  | 78   | 274797   | 51.380  | ug/L   | 100      |
| 34) Trichloroethene           | 7.117  | 95   | 76001    | 52.049  | ug/L   | 94       |
| 35) Methylcyclohexane         | 7.366  | 83   | 119518   | 56.502  | ug/L   | 96       |
| 37) 1,2-Dichloropropane       | 7.421  | 63   | 74280    | 51.723  | ug/L   | 99       |
| 38) Bromodichloromethane      | 7.818  | 83   | 98235    | 52.210  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 8.360  | 75   | 122058   | 54.263  | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 8.574  | 43   | 222713   | 100.171 | ug/L   | 93       |
| 42) Toluene                   | 8.714  | 91   | 292325   | 51.585  | ug/L   | 95       |
| 44) trans-1,3-Dichloropropene | 8.976  | 75   | 110544   | 51.849  | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane     | 9.147  | 97   | 76262    | 51.819  | ug/L   | 96       |
| 46) Tetrachloroethene         | 9.269  | 164  | 51242    | 52.607  | ug/L   | 96       |
| 48) 2-Hexanone                | 9.427  | 43   | 171564   | 98.006  | ug/L   | 93       |
| 49) Dibromochloromethane      | 9.519  | 129  | 67037    | 51.534  | ug/L   | 96       |
| 50) 1,2-Dibromoethane         | 9.604  | 107  | 75294    | 49.541  | ug/L   | 96       |
| 51) Chlorobenzene             | 10.073 | 112  | 180669   | 49.693  | ug/L   | 97       |
| 52) Ethylbenzene              | 10.189 | 91   | 325131   | 52.086  | ug/L   | 98       |
| 53) m,p-Xylene                | 10.299 | 106  | 118046   | 52.211  | ug/L   | 99       |
| 54) o-Xylene                  | 10.640 | 106  | 114918   | 49.428  | ug/L   | 91       |
| 55) Styrene                   | 10.652 | 104  | 195973   | 51.682  | ug/L   | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 11.207 | 83   | 113786   | 49.840  | ug/L # | 98       |
| 59) Bromoform                 | 10.799 | 173  | 40576    | 50.458  | ug/L   | 97       |
| 60) Isopropylbenzene          | 10.957 | 105  | 319895   | 51.726  | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane    | 11.238 | 75   | 90228    | 48.608  | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 266345   | 51.896  | ug/L   | 97       |
| 63) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 264361   | 52.485  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 128413   | 50.067  | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 12.036 | 146  | 129821   | 50.581  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 135115   | 51.884  | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75   | 21621    | 51.249  | ug/L   | 95       |
| 69) 1,3,5-Trichlorobenzene    | 13.109 | 180  | 84759    | 52.967  | ug/L   | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.585 | 180  | 73311    | 51.432  | ug/L   | 96       |
| 71) Naphthalene               | 13.774 | 128  | 293463   | 50.499  | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.957 | 180  | 78297    | 51.707  | ug/L   | 99       |

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

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