

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122322\  
 Data File : VX033556.D  
 Acq On : 23 Dec 2022 11:39  
 Operator : JC/MD  
 Sample : N4519-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-WATER-QT4-2022-08

Quant Time: Dec 24 01:04:11 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML122222WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 24 00:26:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.763   | 114   | 213045   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 10.055  | 117   | 187907   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.024  | 152   | 86664    | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.368   | 65    | 48180    | 42.513   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 85.020%  |
| 7) Chloroethane-d5            | 1.673   | 69    | 45203    | 51.001   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 102.000% |
| 11) 1,1-Dichloroethene-d2     | 2.307   | 63    | 65828    | 36.381   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 72.760%  |
| 21) 2-Butanone-d5             | 4.459   | 46    | 86645    | 105.250  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 105.250% |
| 24) Chloroform-d              | 5.062   | 84    | 132064   | 47.005   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.000%  |
| 26) 1,2-Dichloroethane-d4     | 5.958   | 65    | 88171    | 50.615   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 101.220% |
| 32) Benzene-d6                | 5.977   | 84    | 253100   | 47.163   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 94.320%  |
| 36) 1,2-Dichloropropane-d6    | 7.312   | 67    | 76660    | 48.895   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 97.780%  |
| 41) Toluene-d8                | 8.647   | 98    | 241117   | 46.293   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 92.580%  |
| 43) trans-1,3-Dichloroprop... | 8.952   | 79    | 34816    | 45.934   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 91.860%  |
| 47) 2-Hexanone-d5             | 9.385   | 63    | 65137    | 101.344  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 101.340% |
| 56) 1,1,2,2-Tetrachloroeth... | 11.189  | 84    | 103377   | 48.086   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 96.180%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.323  | 152   | 88133    | 49.024   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 98.040%  |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.167   | 85    | 1046     | 2.034    | ug/L   | 99       |
| 3) Chloromethane              | 1.295   | 50    | 1304     | 2.020    | ug/L   | 86       |
| 5) Vinyl chloride             | 1.374   | 62    | 1736     | 2.035    | ug/L # | 59       |
| 6) Bromomethane               | 1.618   | 94    | 1178     | 2.321    | ug/L   | 94       |
| 8) Chloroethane               | 1.691   | 64    | 1365     | 2.405    | ug/L   | 98       |
| 9) Trichlorofluoromethane     | 1.892   | 101   | 3009     | 2.131    | ug/L   | 97       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.331   | 101   | 2579     | 2.871    | ug/L # | 77       |
| 12) 1,1-Dichloroethene        | 2.319   | 96    | 2249     | 2.784    | ug/L # | 1        |
| 13) Acetone                   | 2.392   | 43    | 2325     | 4.397    | ug/L   | 96       |
| 14) Carbon disulfide          | 2.514   | 76    | 4186     | 1.703    | ug/L   | 99       |
| 15) Methyl Acetate            | 2.709   | 43    | 2492     | 2.357    | ug/L # | 89       |
| 17) trans-1,2-Dichloroethene  | 3.093   | 96    | 2445     | 2.043    | ug/L   | 97       |
| 18) Methyl tert-butyl Ether   | 3.117   | 73    | 8028     | 2.117    | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.611   | 63    | 4470     | 2.152    | ug/L   | 94       |
| 20) cis-1,2-Dichloroethene    | 4.489   | 96    | 2992     | 2.134    | ug/L   | 98       |
| 22) 2-Butanone                | 4.574   | 43    | 4023     | 4.620    | ug/L   | 87       |
| 23) Bromochloromethane        | 4.904   | 128   | 1560     | 2.078    | ug/L   | 87       |
| 27) 1,2-Dichloroethane        | 6.093   | 62    | 4383     | 2.381    | ug/L # | 90       |
| 29) Cyclohexane               | 5.471   | 56    | 3561     | 1.939    | ug/L # | 94       |

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 ALS Vial : 5 Sample Multiplier: 1

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 MSVOA\_X  
 ClientSampleId :  
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Quant Time: Dec 24 01:04:11 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML122222WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Dec 24 00:26:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| 30) 1,1,1-Trichloroethane     | 5.391  | 97   | 4588     | 2.099 | ug/L # | 77       |
| 31) Carbon tetrachloride      | 5.684  | 117  | 4028     | 2.077 | ug/L   | 97       |
| 33) Benzene                   | 6.044  | 78   | 10728    | 2.148 | ug/L   | 100      |
| 35) Methylcyclohexane         | 7.379  | 83   | 4346     | 2.130 | ug/L   | 97       |
| 37) 1,2-Dichloropropane       | 7.434  | 63   | 2673     | 2.171 | ug/L # | 85       |
| 38) Bromodichloromethane      | 7.824  | 83   | 3814     | 2.099 | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene   | 8.373  | 75   | 4270     | 2.134 | ug/L   | 90       |
| 40) 4-Methyl-2-pentanone      | 8.574  | 43   | 6796     | 4.456 | ug/L   | 95       |
| 42) Toluene                   | 8.720  | 91   | 12225    | 2.166 | ug/L   | 97       |
| 44) trans-1,3-Dichloropropene | 8.982  | 75   | 3725     | 1.983 | ug/L   | 93       |
| 45) 1,1,2-Trichloroethane     | 9.153  | 97   | 2961     | 2.221 | ug/L   | 93       |
| 46) Tetrachloroethene         | 9.275  | 164  | 2482     | 2.112 | ug/L   | 94       |
| 49) Dibromochloromethane      | 9.519  | 129  | 3129     | 2.010 | ug/L   | 90       |
| 50) 1,2-Dibromoethane         | 9.610  | 107  | 3042     | 2.114 | ug/L # | 91       |
| 51) Chlorobenzene             | 10.080 | 112  | 8199     | 2.189 | ug/L   | 96       |
| 52) Ethylbenzene              | 10.195 | 91   | 12865    | 2.081 | ug/L   | 98       |
| 53) m,p-Xylene                | 10.305 | 106  | 4917     | 1.994 | ug/L   | 100      |
| 54) o-Xylene                  | 10.647 | 106  | 4740     | 1.965 | ug/L   | 95       |
| 55) Styrene                   | 10.659 | 104  | 7829     | 1.926 | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 11.214 | 83   | 4659     | 2.390 | ug/L   | 98       |
| 59) Bromoform                 | 10.799 | 173  | 2157     | 2.137 | ug/L   | 96       |
| 60) Isopropylbenzene          | 10.964 | 105  | 11729    | 2.047 | ug/L   | 97       |
| 61) 1,2,3-Trichloropropane    | 11.238 | 75   | 3494     | 2.560 | ug/L   | 96       |
| 62) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 9982     | 2.051 | ug/L   | 97       |
| 63) 1,2,4-Trimethylbenzene    | 11.756 | 105  | 9551     | 1.996 | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 5707     | 2.180 | ug/L   | 88       |
| 65) 1,4-Dichlorobenzene       | 12.043 | 146  | 5910     | 2.232 | ug/L   | 95       |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 5988     | 2.318 | ug/L   | 96       |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75   | 730m     | 1.989 | ug/L   |          |
| 69) 1,3,5-Trichlorobenzene    | 13.116 | 180  | 3660     | 2.090 | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.591 | 180  | 3327     | 2.097 | ug/L   | 97       |
| 71) Naphthalene               | 13.780 | 128  | 9771     | 1.885 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 3323     | 2.099 | ug/L   | 98       |
| -----                         |        |      |          |       |        |          |

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

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