

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU032823\  
 Data File : VU053446.D  
 Acq On : 28 Mar 2023 20:11  
 Operator : JC/MD  
 Sample : 02037-07MS  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E45E9MS

Quant Time: Mar 29 01:14:59 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM031523WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 29 01:10:06 2023  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.243   | 114   | 201673   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.410   | 117   | 192737   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.806  | 152   | 100272   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597   | 65    | 84224    | 45.268   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 90.540%  |
| 7) Chloroethane-d5            | 1.912   | 69    | 68153    | 45.286   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 90.580%  |
| 11) 1,1-Dichloroethene-d2     | 2.568   | 63    | 142623   | 44.251   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 88.500%  |
| 21) 2-Butanone-d5             | 4.623   | 46    | 111939   | 129.720  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 129.720% |
| 24) Chloroform-d              | 5.057   | 84    | 142520   | 46.508   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.020%  |
| 26) 1,2-Dichloroethane-d4     | 5.697   | 65    | 92397    | 48.550   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 97.100%  |
| 32) Benzene-d6                | 5.722   | 84    | 279773   | 44.753   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 89.500%  |
| 36) 1,2-Dichloropropane-d6    | 6.687   | 67    | 96009    | 47.585   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 95.160%  |
| 41) Toluene-d8                | 7.893   | 98    | 262544   | 45.108   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 90.220%  |
| 43) trans-1,3-Dichloroprop... | 8.176   | 79    | 45471    | 45.678   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 91.360%  |
| 47) 2-Hexanone-d5             | 8.629   | 63    | 64003    | 101.465  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 101.470% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.751  | 84    | 135476   | 51.833   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 103.660% |
| 66) 1,2-Dichlorobenzene-d4    | 12.188  | 152   | 100742   | 51.887   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 103.780% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.385   | 85    | 98271    | 46.683   | ug/L   | 99       |
| 3) Chloromethane              | 1.520   | 50    | 106041   | 54.668   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.604   | 62    | 106639   | 50.257   | ug/L   | 99       |
| 6) Bromomethane               | 1.858   | 94    | 60737    | 47.619   | ug/L   | 99       |
| 8) Chloroethane               | 1.935   | 64    | 63989    | 51.054   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 2.137   | 101   | 132200   | 49.935   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.578   | 101   | 77845    | 48.608   | ug/L   | 94       |
| 12) 1,1-Dichloroethene        | 2.578   | 96    | 70676    | 47.719   | ug/L   | 99       |
| 13) Acetone                   | 2.636   | 43    | 85058    | 86.546   | ug/L   | 92       |
| 14) Carbon disulfide          | 2.793   | 76    | 185750   | 41.408   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.948   | 43    | 88340    | 65.578   | ug/L   | 94       |
| 16) Methylene chloride        | 3.044   | 84    | 83807    | 46.643   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 3.349   | 96    | 72131    | 47.999   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 3.359   | 73    | 257713   | 51.000   | ug/L   | 98       |
| 19) 1,1-Dichloroethane        | 3.864   | 63    | 152219   | 49.622   | ug/L   | 98       |
| 20) cis-1,2-Dichloroethene    | 4.661   | 96    | 86212    | 48.844   | ug/L   | 99       |
| 22) 2-Butanone                | 4.700   | 43    | 132854   | 118.653  | ug/L   | 92       |
| 23) Bromochloromethane        | 4.970   | 128   | 42670    | 50.701   | ug/L   | 93       |
| 25) Chloroform                | 5.083   | 83    | 154432   | 50.310   | ug/L   | 98       |

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 ALS Vial : 24 Sample Multiplier: 1

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 MSVOA\_U  
 ClientSampleId :  
 E45E9MS

Quant Time: Mar 29 01:14:59 2023  
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 Quant Title : VOC Analysis  
 QLast Update : Wed Mar 29 01:10:06 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.787  | 62   | 123870   | 51.120  | ug/L  | 99       |
| 29) Cyclohexane               | 5.385  | 56   | 130038   | 45.280  | ug/L  | 96       |
| 30) 1,1,1-Trichloroethane     | 5.311  | 97   | 127364   | 48.480  | ug/L  | 98       |
| 31) Carbon tetrachloride      | 5.520  | 117  | 102940   | 47.828  | ug/L  | 100      |
| 33) Benzene                   | 5.767  | 78   | 329362   | 49.291  | ug/L  | 100      |
| 34) Trichloroethene           | 6.536  | 95   | 85198    | 48.900  | ug/L  | 95       |
| 35) Methylcyclohexane         | 6.758  | 83   | 126834   | 41.530  | ug/L  | 95       |
| 37) 1,2-Dichloropropane       | 6.783  | 63   | 94928    | 50.920  | ug/L  | 99       |
| 38) Bromodichloromethane      | 7.102  | 83   | 110266   | 47.528  | ug/L  | 99       |
| 39) cis-1,3-Dichloropropene   | 7.600  | 75   | 143769   | 46.939  | ug/L  | 98       |
| 40) 4-Methyl-2-pentanone      | 7.783  | 43   | 268514   | 140.131 | ug/L  | 93       |
| 42) Toluene                   | 7.963  | 91   | 354323   | 49.323  | ug/L  | 98       |
| 44) trans-1,3-Dichloropropene | 8.205  | 75   | 134691   | 48.108  | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 8.394  | 97   | 89387    | 52.657  | ug/L  | 98       |
| 46) Tetrachloroethene         | 8.549  | 164  | 58722    | 51.805  | ug/L  | 96       |
| 48) 2-Hexanone                | 8.677  | 43   | 204644   | 127.537 | ug/L  | 95       |
| 49) Dibromochloromethane      | 8.803  | 129  | 81862    | 47.143  | ug/L  | 100      |
| 50) 1,2-Dibromoethane         | 8.918  | 107  | 95267    | 52.669  | ug/L  | 97       |
| 51) Chlorobenzene             | 9.443  | 112  | 222551   | 49.707  | ug/L  | 98       |
| 52) Ethylbenzene              | 9.565  | 91   | 392460   | 48.175  | ug/L  | 99       |
| 53) m,p-Xylene                | 9.690  | 106  | 143831   | 47.304  | ug/L  | 98       |
| 54) o-Xylene                  | 10.095 | 106  | 141759   | 47.139  | ug/L  | 96       |
| 55) Styrene                   | 10.108 | 104  | 244262   | 48.735  | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.777 | 83   | 153525   | 55.163  | ug/L  | 99       |
| 59) Bromoform                 | 10.285 | 173  | 60670    | 53.168  | ug/L  | 98       |
| 60) 1,2,3-Trichloropropane    | 10.815 | 75   | 117941   | 59.192  | ug/L  | 98       |
| 61) Isopropylbenzene          | 10.478 | 105  | 382658   | 48.300  | ug/L  | 100      |
| 62) 1,3,5-Trimethylbenzene    | 11.082 | 105  | 306166   | 46.686  | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.462 | 105  | 298081   | 46.631  | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 11.741 | 146  | 167838   | 50.513  | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.831 | 146  | 173321   | 51.960  | ug/L  | 95       |
| 67) 1,2-Dichlorobenzene       | 12.208 | 146  | 172990   | 52.090  | ug/L  | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.992 | 75   | 30185    | 54.784  | ug/L  | 90       |
| 69) 1,3,5-Trichlorobenzene    | 13.214 | 180  | 111928   | 53.132  | ug/L  | 97       |
| 70) 1,2,4-trichlorobenzene    | 13.835 | 180  | 105036   | 55.491  | ug/L  | 97       |
| 71) Naphthalene               | 14.082 | 128  | 350653   | 54.962  | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 14.323 | 180  | 102412   | 57.053  | ug/L  | 98       |

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

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