

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX102524\  
 Data File : VX043533.D  
 Acq On : 25 Oct 2024 19:06  
 Operator : JC/MD  
 Sample : VSTDCCC050EC  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VSTD050775

Quant Time: Oct 26 01:38:47 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\SFAMXML102524WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Oct 26 01:33:53 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/28/2024  
 Supervised By :Semsettin Yesilyurt 10/28/2024

| Compound                      | R.T.     | QIon  | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|----------|-------|----------|---------|----------|----------|
| -----                         |          |       |          |         |          |          |
| Internal Standards            |          |       |          |         |          |          |
| 1) 1,4-Difluorobenzene        | 6.757    | 114   | 244242   | 50.000  | ug/L     | 0.00     |
| 28) Chlorobenzene-d5          | 10.055   | 117   | 220127   | 50.000  | ug/L     | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 12.018   | 152   | 102704   | 50.000  | ug/L     | 0.00     |
| System Monitoring Compounds   |          |       |          |         |          |          |
| 4) Vinyl Chloride-d3          | 1.368    | 65    | 65358    | 49.191  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 60 | - 135 | Recovery | =       | 98.380%  |          |
| 7) Chloroethane-d5            | 1.648    | 69    | 30919m   | 29.059  | ug/L     | -0.02    |
| Spiked Amount 50.000          | Range 70 | - 130 | Recovery | =       | 58.120%# |          |
| 11) 1,1-Dichloroethene-d2     | 2.294    | 65    | 28556    | 45.513  | ug/L     | -0.01    |
| Spiked Amount 50.000          | Range 60 | - 125 | Recovery | =       | 91.020%  |          |
| 21) 2-Butanone-d5             | 4.471    | 46    | 112804   | 101.925 | ug/L     | 0.01     |
| Spiked Amount 100.000         | Range 40 | - 130 | Recovery | =       | 101.920% |          |
| 24) Chloroform-d              | 5.050    | 84    | 153770   | 50.040  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 125 | Recovery | =       | 100.080% |          |
| 26) 1,2-Dichloroethane-d4     | 5.952    | 65    | 99763    | 48.317  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 125 | Recovery | =       | 96.640%  |          |
| 32) Benzene-d6                | 5.970    | 84    | 282683   | 50.588  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 125 | Recovery | =       | 101.180% |          |
| 36) 1,2-Dichloropropane-d6    | 7.305    | 67    | 88827    | 51.066  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 70 | - 120 | Recovery | =       | 102.140% |          |
| 41) Toluene-d8                | 8.647    | 98    | 252258   | 49.309  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 80 | - 120 | Recovery | =       | 98.620%  |          |
| 43) trans-1,3-Dichloroprop... | 8.952    | 79    | 40807    | 44.592  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 60 | - 125 | Recovery | =       | 89.180%  |          |
| 47) 2-Hexanone-d5             | 9.390    | 63    | 94059    | 109.027 | ug/L     | 0.00     |
| Spiked Amount 100.000         | Range 45 | - 130 | Recovery | =       | 109.030% |          |
| 56) 1,1,2,2-Tetrachloroeth... | 11.189   | 84    | 141615   | 54.687  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 65 | - 120 | Recovery | =       | 109.380% |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.317   | 152   | 100168   | 53.734  | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 80 | - 120 | Recovery | =       | 107.460% |          |
| Target Compounds              |          |       |          |         |          |          |
|                               |          |       |          |         | Qvalue   |          |
| 2) Dichlorodifluoromethane    | 1.166    | 85    | 95785    | 50.494  | ug/L     | 99       |
| 3) Chloromethane              | 1.294    | 50    | 92983    | 53.292  | ug/L     | 100      |
| 5) Vinyl chloride             | 1.374    | 62    | 90228    | 52.311  | ug/L     | 97       |
| 6) Bromomethane               | 1.593    | 94    | 32938    | 32.353  | ug/L     | 94       |
| 8) Chloroethane               | 1.660    | 64    | 31698m   | 30.993  | ug/L     |          |
| 9) Trichlorofluoromethane     | 1.861    | 101   | 114682   | 44.568  | ug/L     | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.312    | 101   | 71352    | 46.304  | ug/L     | 97       |
| 12) 1,1-Dichloroethene        | 2.306    | 96    | 64407    | 47.706  | ug/L     | 89       |
| 13) Acetone                   | 2.392    | 43    | 87934    | 87.268  | ug/L     | 98       |
| 14) Carbon disulfide          | 2.501    | 76    | 125601   | 37.827  | ug/L     | 99       |
| 15) Methyl Acetate            | 2.709    | 43    | 96558    | 51.478  | ug/L     | 99       |
| 16) Methylene chloride        | 2.782    | 84    | 80057    | 51.194  | ug/L     | 97       |
| 17) trans-1,2-Dichloroethene  | 3.087    | 96    | 68568    | 48.297  | ug/L     | 97       |
| 18) Methyl tert-butyl Ether   | 3.117    | 73    | 272243   | 51.618  | ug/L     | 99       |
| 19) 1,1-Dichloroethane        | 3.605    | 63    | 140795   | 50.302  | ug/L     | 98       |
| 20) cis-1,2-Dichloroethene    | 4.483    | 96    | 86355    | 50.980  | ug/L     | 97       |
| 22) 2-Butanone                | 4.568    | 43    | 136858   | 103.162 | ug/L     | 99       |
| 23) Bromochloromethane        | 4.897    | 128   | 44140    | 49.740  | ug/L     | 95       |
| 25) Chloroform                | 5.086    | 83    | 152471   | 50.313  | ug/L     | 97       |

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 Quant Title : VOC Analysis  
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 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 27) 1,2-Dichloroethane        | 6.080  | 62   | 125617   | 51.109  | ug/L # | 95       |
| 29) Cyclohexane               | 5.458  | 56   | 123264   | 48.899  | ug/L   | 100      |
| 30) 1,1,1-Trichloroethane     | 5.379  | 97   | 131864   | 48.566  | ug/L   | 99       |
| 31) Carbon tetrachloride      | 5.672  | 117  | 106910   | 45.871  | ug/L   | 98       |
| 33) Benzene                   | 6.031  | 78   | 308248   | 51.326  | ug/L   | 100      |
| 34) Trichloroethene           | 7.123  | 95   | 79866    | 48.419  | ug/L   | 94       |
| 35) Methylcyclohexane         | 7.373  | 83   | 121043   | 47.690  | ug/L   | 99       |
| 37) 1,2-Dichloropropane       | 7.427  | 63   | 84686    | 52.926  | ug/L   | 99       |
| 38) Bromodichloromethane      | 7.824  | 83   | 103473   | 46.972  | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene   | 8.366  | 75   | 131972   | 49.895  | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone      | 8.580  | 43   | 268545   | 107.718 | ug/L   | 99       |
| 42) Toluene                   | 8.714  | 91   | 327718   | 51.550  | ug/L   | 98       |
| 44) trans-1,3-Dichloropropene | 8.976  | 75   | 120647   | 48.710  | ug/L   | 98       |
| 45) 1,1,2-Trichloroethane     | 9.153  | 97   | 88095    | 53.475  | ug/L   | 99       |
| 46) Tetrachloroethene         | 9.269  | 164  | 57794    | 48.882  | ug/L   | 96       |
| 48) 2-Hexanone                | 9.433  | 43   | 206019   | 108.183 | ug/L   | 97       |
| 49) Dibromochloromethane      | 9.518  | 129  | 76744    | 47.065  | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 9.610  | 107  | 92040    | 52.292  | ug/L   | 99       |
| 51) Chlorobenzene             | 10.079 | 112  | 216827   | 51.657  | ug/L   | 98       |
| 52) Ethylbenzene              | 10.195 | 91   | 363574   | 50.978  | ug/L   | 96       |
| 53) m,p-Xylene                | 10.299 | 106  | 137417   | 51.532  | ug/L   | 97       |
| 54) o-Xylene                  | 10.640 | 106  | 140313   | 52.537  | ug/L   | 97       |
| 55) Styrene                   | 10.652 | 104  | 235589   | 52.502  | ug/L   | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 11.213 | 83   | 145655   | 56.029  | ug/L   | 99       |
| 59) Bromoform                 | 10.799 | 173  | 51505    | 46.495  | ug/L   | 100      |
| 60) Isopropylbenzene          | 10.963 | 105  | 360679   | 51.113  | ug/L   | 100      |
| 61) 1,2,3-Trichloropropane    | 11.238 | 75   | 113899   | 55.810  | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.451 | 105  | 303068   | 52.358  | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene    | 11.750 | 105  | 305555   | 52.726  | ug/L   | 99       |
| 64) 1,3-Dichlorobenzene       | 11.969 | 146  | 155885   | 50.894  | ug/L   | 98       |
| 65) 1,4-Dichlorobenzene       | 12.042 | 146  | 157087   | 50.369  | ug/L   | 98       |
| 67) 1,2-Dichlorobenzene       | 12.335 | 146  | 166692   | 54.737  | ug/L   | 97       |
| 68) 1,2-Dibromo-3-chloropr... | 12.945 | 75   | 30004    | 51.851  | ug/L   | 85       |
| 69) 1,3,5-Trichlorobenzene    | 13.109 | 180  | 100886   | 49.023  | ug/L   | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.585 | 180  | 94914    | 49.241  | ug/L   | 100      |
| 71) Naphthalene               | 13.774 | 128  | 396790   | 54.522  | ug/L   | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.963 | 180  | 100118   | 51.912  | ug/L   | 97       |

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

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