

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VW061224\  
 Data File : VW036046.D  
 Acq On : 12 Jun 2024 19:19  
 Operator : SY/MD  
 Sample : VSTDCCC025EC  
 Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VSTD025281

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/14/2024  
 Supervised By :Mahesh Dadoda 06/14/2024

Quant Time: Jun 13 02:12:21 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM053024SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jun 13 02:10:50 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 5.529  | 114   | 347302   | 25.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 8.783  | 117   | 345998   | 25.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.182 | 152   | 183386   | 25.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.272  | 65    | 116830   | 18.297   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 73.200%  |
| 7) Chloroethane-d5            | 1.526  | 69    | 104337   | 20.493   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 150 | Recovery | =      | 81.960%  |
| 11) 1,1-Dichloroethene-d2     | 2.050  | 65    | 55939    | 19.679   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 110 | Recovery | =      | 78.720%  |
| 21) 2-Butanone-d5             | 3.844  | 46    | 73886m   | 50.435   | ug/L   | 0.02     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 100.860% |
| 24) Chloroform-d              | 4.243  | 84    | 249488   | 22.595   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 40 - 150 | Recovery | =      | 90.400%  |
| 26) 1,2-Dichloroethane-d4     | 4.941  | 65    | 125010   | 21.594   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 130 | Recovery | =      | 86.360%  |
| 32) Benzene-d6                | 4.953  | 84    | 451110   | 21.934   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 20 - 135 | Recovery | =      | 87.720%  |
| 36) 1,2-Dichloropropane-d6    | 5.986  | 67    | 143414   | 22.143   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 70 - 120 | Recovery | =      | 88.560%  |
| 41) Toluene-d8                | 7.240  | 98    | 400111   | 22.048   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 130 | Recovery | =      | 88.200%  |
| 43) trans-1,3-Dichloroprop... | 7.551  | 79    | 56092    | 21.122   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 30 - 135 | Recovery | =      | 84.480%  |
| 47) 2-Hexanone-d5             | 8.031  | 63    | 46228    | 52.681   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 20 - 135 | Recovery | =      | 105.360% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149 | 84    | 118429   | 24.470   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 45 - 120 | Recovery | =      | 97.880%  |
| 66) 1,2-Dichlorobenzene-d4    | 11.558 | 152   | 143179   | 21.291   | ug/L   | 0.00     |
| Spiked Amount                 | 25.000 | Range | 75 - 120 | Recovery | =      | 85.160%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.102  | 85    | 125446   | 20.032   | ug/L   | 98       |
| 3) Chloromethane              | 1.211  | 50    | 166525   | 23.171   | ug/L   | 99       |
| 5) Vinyl chloride             | 1.275  | 62    | 181901   | 24.042   | ug/L   | 99       |
| 6) Bromomethane               | 1.481  | 94    | 110411   | 23.524   | ug/L   | 98       |
| 8) Chloroethane               | 1.542  | 64    | 119231   | 25.353   | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 1.706  | 101   | 234548   | 24.963   | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.060  | 101   | 144773   | 24.279   | ug/L   | 99       |
| 12) 1,1-Dichloroethene        | 2.063  | 96    | 138592   | 24.920   | ug/L   | 91       |
| 13) Acetone                   | 2.153  | 43    | 88152    | 38.629   | ug/L   | 95       |
| 14) Carbon disulfide          | 2.230  | 76    | 429691   | 22.249   | ug/L   | 99       |
| 15) Methyl Acetate            | 2.384  | 43    | 76128    | 26.839   | ug/L   | 100      |
| 16) Methylene chloride        | 2.439  | 84    | 208209   | 26.494   | ug/L   | 99       |
| 17) trans-1,2-Dichloroethene  | 2.687  | 96    | 143891   | 24.356   | ug/L   | 98       |
| 18) Methyl tert-butyl Ether   | 2.703  | 73    | 334437   | 25.216   | ug/L   | 99       |
| 19) 1,1-Dichloroethane        | 3.105  | 63    | 292351   | 25.985   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 3.809  | 96    | 144862   | 24.403   | ug/L   | 97       |
| 22) 2-Butanone                | 3.915  | 43    | 85505    | 44.158   | ug/L   | 93       |
| 23) Bromochloromethane        | 4.143  | 128   | 75513    | 25.360   | ug/L   | 96       |
| 25) Chloroform                | 4.269  | 83    | 299877   | 25.911   | ug/L   | 100      |

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 Quant Title : VOC Analysis  
 QLast Update : Thu Jun 13 02:10:50 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 5.037  | 62   | 189565   | 26.236 | ug/L  | 100      |
| 29) Cyclohexane               | 4.577  | 56   | 185867   | 22.562 | ug/L  | 100      |
| 30) 1,1,1-Trichloroethane     | 4.507  | 97   | 250305   | 26.462 | ug/L  | 100      |
| 31) Carbon tetrachloride      | 4.728  | 117  | 213763   | 25.760 | ug/L  | 99       |
| 33) Benzene                   | 5.005  | 78   | 603281   | 26.659 | ug/L  | 100      |
| 34) Trichloroethene           | 5.828  | 95   | 176099   | 25.391 | ug/L  | 98       |
| 35) Methylcyclohexane         | 6.047  | 83   | 214021   | 22.314 | ug/L  | 98       |
| 37) 1,2-Dichloropropane       | 6.088  | 63   | 163548   | 27.524 | ug/L  | 100      |
| 38) Bromodichloromethane      | 6.429  | 83   | 208737   | 26.541 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 6.950  | 75   | 212063   | 23.861 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 178999   | 55.447 | ug/L  | 99       |
| 42) Toluene                   | 7.310  | 91   | 619485   | 26.791 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.580  | 75   | 197235   | 25.694 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 130812   | 26.607 | ug/L  | 100      |
| 46) Tetrachloroethene         | 7.902  | 164  | 116600   | 22.987 | ug/L  | 99       |
| 48) 2-Hexanone                | 8.079  | 43   | 131531   | 52.116 | ug/L  | 99       |
| 49) Dibromochloromethane      | 8.172  | 129  | 140183   | 26.052 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.281  | 107  | 121787   | 25.816 | ug/L  | 99       |
| 51) Chlorobenzene             | 8.812  | 112  | 385241   | 24.452 | ug/L  | 100      |
| 52) Ethylbenzene              | 8.944  | 91   | 612092   | 24.742 | ug/L  | 99       |
| 53) m,p-Xylene                | 9.069  | 106  | 233818   | 25.153 | ug/L  | 100      |
| 54) o-Xylene                  | 9.477  | 106  | 216068   | 24.648 | ug/L  | 99       |
| 55) Styrene                   | 9.493  | 104  | 410736   | 26.570 | ug/L  | 97       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 119250   | 27.088 | ug/L  | 100      |
| 59) Bromoform                 | 9.664  | 173  | 91647    | 26.500 | ug/L  | 98       |
| 60) Isopropylbenzene          | 9.863  | 105  | 574957   | 24.438 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 119662   | 27.590 | ug/L  | 97       |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 386015   | 22.626 | ug/L  | 100      |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 425186   | 23.131 | ug/L  | 99       |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 288998   | 23.390 | ug/L  | 100      |
| 65) 1,4-Dichlorobenzene       | 11.207 | 146  | 297498   | 23.328 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 11.577 | 146  | 273811   | 23.550 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 12.362 | 75   | 26605    | 27.432 | ug/L  | 98       |
| 69) 1,3,5-Trichlorobenzene    | 12.580 | 180  | 190307   | 20.591 | ug/L  | 99       |
| 70) 1,2,4-trichlorobenzene    | 13.194 | 180  | 148295   | 20.378 | ug/L  | 99       |
| 71) Naphthalene               | 13.435 | 128  | 260125   | 21.904 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.677 | 180  | 147322   | 22.185 | ug/L  | 98       |

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

