

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW012025\  
 Data File : VW031584.D  
 Acq On : 20 Jan 2025 16:34  
 Operator : SY/MD  
 Sample : VSTDCCC025EC  
 Misc : 5.00g/10mL/MSVOA\_W/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTD025484

Quant Time: Jan 21 01:01:17 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM011025SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Sat Jan 18 00:35:19 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025  
 Supervised By :Mahesh Dadoda 01/21/2025

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) 1,4-Difluorobenzene        | 8.843          | 114  | 618934     | 25.000  | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 11.629         | 117  | 537954     | 25.000  | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 13.556         | 152  | 250537     | 25.000  | ug/L   | 0.00     |
|                               |                |      |            |         |        |          |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 4) Vinyl Chloride-d3          | 2.363          | 65   | 161397     | 16.618  | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 66.480% |        |          |
| 7) Chloroethane-d5            | 2.899          | 69   | 120752     | 17.410  | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 150 |      | Recovery = | 69.640% |        |          |
| 11) 1,1-Dichloroethene-d2     | 4.021          | 65   | 77360      | 17.902  | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 45 - 110 |      | Recovery = | 71.600% |        |          |
| 21) 2-Butanone-d5             | 7.093          | 46   | 69581      | 44.568  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 89.140% |        |          |
| 24) Chloroform-d              | 7.648          | 84   | 327620     | 20.453  | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 40 - 150 |      | Recovery = | 81.800% |        |          |
| 26) 1,2-Dichloroethane-d4     | 8.307          | 65   | 163819     | 20.779  | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 70 - 130 |      | Recovery = | 83.120% |        |          |
| 32) Benzene-d6                | 8.270          | 84   | 671455     | 19.871  | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 20 - 135 |      | Recovery = | 79.480% |        |          |
| 36) 1,2-Dichloropropane-d6    | 9.270          | 67   | 199097     | 19.956  | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 70 - 120 |      | Recovery = | 79.840% |        |          |
| 41) Toluene-d8                | 10.319         | 98   | 609025     | 19.965  | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 130 |      | Recovery = | 79.880% |        |          |
| 43) trans-1,3-Dichloroprop... | 10.575         | 79   | 82511      | 20.139  | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 30 - 135 |      | Recovery = | 80.560% |        |          |
| 47) 2-Hexanone-d5             | 10.922         | 63   | 47537      | 46.689  | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 20 - 135 |      | Recovery = | 93.380% |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 12.690         | 84   | 136134     | 22.312  | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 45 - 120 |      | Recovery = | 89.240% |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 13.848         | 152  | 180290     | 20.517  | ug/L   | 0.00     |
| Spiked Amount 25.000          | Range 75 - 120 |      | Recovery = | 82.080% |        |          |
|                               |                |      |            |         |        |          |
| Target Compounds              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane    | 2.009          | 85   | 161432     | 20.053  | ug/L # | 87       |
| 3) Chloromethane              | 2.216          | 50   | 139619     | 16.733  | ug/L   | 99       |
| 5) Vinyl chloride             | 2.369          | 62   | 206520     | 19.405  | ug/L   | 99       |
| 6) Bromomethane               | 2.789          | 94   | 117892     | 18.952  | ug/L   | 100      |
| 8) Chloroethane               | 2.936          | 64   | 121943     | 19.492  | ug/L   | 99       |
| 9) Trichlorofluoromethane     | 3.265          | 101  | 193449     | 18.296  | ug/L   | 99       |
| 10) 1,1,2-Trichloro-1,2,2-... | 4.070          | 101  | 176186     | 21.763  | ug/L   | 96       |
| 12) 1,1-Dichloroethene        | 4.045          | 96   | 167891     | 20.385  | ug/L   | 90       |
| 13) Acetone                   | 4.161          | 43   | 53321m     | 44.376  | ug/L   |          |
| 14) Carbon disulfide          | 4.387          | 76   | 531134     | 19.145  | ug/L   | 99       |
| 15) Methyl Acetate            | 4.691          | 43   | 68364      | 21.718  | ug/L # | 73       |
| 16) Methylene chloride        | 4.917          | 84   | 172358     | 20.447  | ug/L   | 97       |
| 17) trans-1,2-Dichloroethene  | 5.429          | 96   | 185253     | 20.943  | ug/L   | 95       |
| 18) Methyl tert-butyl Ether   | 5.429          | 73   | 312284     | 22.016  | ug/L   | 100      |
| 19) 1,1-Dichloroethane        | 6.216          | 63   | 355387     | 21.354  | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 7.173          | 96   | 200444     | 21.223  | ug/L   | 98       |
| 22) 2-Butanone                | 7.185          | 43   | 86736      | 42.266  | ug/L   | 98       |
| 23) Bromochloromethane        | 7.514          | 128  | 81094      | 21.925  | ug/L   | 99       |
| 25) Chloroform                | 7.679          | 83   | 343724     | 21.714  | ug/L   | 99       |

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Quant Time: Jan 21 01:01:17 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\SFAMWLM011025SMA.M  
 Quant Title : SFAM01.0  
 QLast Update : Sat Jan 18 00:35:19 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 27) 1,2-Dichloroethane        | 8.398  | 62   | 213555   | 21.904 | ug/L  | 100      |
| 29) Cyclohexane               | 7.953  | 56   | 351683   | 20.397 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 7.874  | 97   | 291210   | 20.853 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 8.069  | 117  | 257879   | 20.828 | ug/L  | 99       |
| 33) Benzene                   | 8.325  | 78   | 771701   | 20.960 | ug/L  | 100      |
| 34) Trichloroethene           | 9.087  | 95   | 208361   | 21.050 | ug/L  | 97       |
| 35) Methylcyclohexane         | 9.331  | 83   | 367998   | 20.736 | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 9.367  | 63   | 196409   | 21.225 | ug/L  | 100      |
| 38) Bromodichloromethane      | 9.642  | 83   | 237387   | 21.208 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 10.069 | 75   | 310710   | 21.344 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 10.209 | 43   | 199821   | 43.261 | ug/L  | 98       |
| 42) Toluene                   | 10.386 | 91   | 815070   | 21.178 | ug/L  | 96       |
| 44) trans-1,3-Dichloropropene | 10.605 | 75   | 250020   | 21.487 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 10.782 | 97   | 130227   | 21.955 | ug/L  | 98       |
| 46) Tetrachloroethene         | 10.861 | 164  | 140228   | 19.741 | ug/L  | 87       |
| 48) 2-Hexanone                | 10.965 | 43   | 131908   | 46.732 | ug/L  | 99       |
| 49) Dibromochloromethane      | 11.129 | 129  | 140408   | 21.514 | ug/L  | 97       |
| 50) 1,2-Dibromoethane         | 11.233 | 107  | 120495   | 21.919 | ug/L  | 95       |
| 51) Chlorobenzene             | 11.654 | 112  | 506730   | 21.322 | ug/L  | 98       |
| 52) Ethylbenzene              | 11.727 | 91   | 936445   | 21.206 | ug/L  | 96       |
| 53) m,p-Xylene                | 11.837 | 106  | 352117   | 20.913 | ug/L  | 98       |
| 54) o-Xylene                  | 12.160 | 106  | 330620   | 21.129 | ug/L  | 96       |
| 55) Styrene                   | 12.178 | 104  | 554485   | 21.296 | ug/L  | 96       |
| 57) 1,1,2,2-Tetrachloroethane | 12.708 | 83   | 146765   | 22.518 | ug/L  | 99       |
| 59) Bromoform                 | 12.349 | 173  | 72556    | 21.734 | ug/L  | 98       |
| 60) Isopropylbenzene          | 12.458 | 105  | 928605   | 21.217 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 12.763 | 75   | 107722   | 22.896 | ug/L  | 99       |
| 62) 1,3,5-Trimethylbenzene    | 12.940 | 105  | 772932   | 21.448 | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 13.245 | 105  | 749343   | 21.364 | ug/L  | 98       |
| 64) 1,3-Dichlorobenzene       | 13.495 | 146  | 373097   | 21.493 | ug/L  | 94       |
| 65) 1,4-Dichlorobenzene       | 13.574 | 146  | 363270   | 21.159 | ug/L  | 99       |
| 67) 1,2-Dichlorobenzene       | 13.867 | 146  | 327396   | 22.086 | ug/L  | 99       |
| 68) 1,2-Dibromo-3-chloropr... | 14.476 | 75   | 23252    | 22.106 | ug/L  | 93       |
| 69) 1,3,5-Trichlorobenzene    | 14.623 | 180  | 241459   | 20.526 | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 15.123 | 180  | 195446   | 20.859 | ug/L  | 99       |
| 71) Naphthalene               | 15.360 | 128  | 392000   | 22.312 | ug/L  | 99       |
| 72) 1,2,3-Trichlorobenzene    | 15.543 | 180  | 177022   | 22.432 | ug/L  | 94       |

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

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