

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122324\  
 Data File : VY020688.D  
 Acq On : 23 Dec 2024 13:01  
 Operator : SY/MD  
 Sample : VSTDICC100  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC100

Quant Time: Dec 23 13:47:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122324S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 23 13:45:38 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/24/2024  
 Supervised By : Mahesh Dadoda 12/26/2024

| Compound                     | R.T.           | QIon | Response             | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|----------------------|---------|--------|----------|
| -----                        |                |      |                      |         |        |          |
| Internal Standards           |                |      |                      |         |        |          |
| 1) Pentafluorobenzene        | 7.719          | 168  | 114917               | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.622          | 114  | 161431               | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.426         | 117  | 137595               | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.353         | 152  | 68148                | 50.000  | ug/l   | 0.00     |
|                              |                |      |                      |         |        |          |
| System Monitoring Compounds  |                |      |                      |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.073          | 65   | 107875               | 105.993 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 211.980%# |         |        |          |
| 35) Dibromofluoromethane     | 7.646          | 113  | 97918                | 103.302 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 206.600%# |         |        |          |
| 50) Toluene-d8               | 10.115         | 98   | 390215               | 113.343 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 226.680%# |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.414         | 95   | 131639               | 105.052 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 29 - 146 |      | Recovery = 210.100%# |         |        |          |
|                              |                |      |                      |         |        |          |
| Target Compounds             |                |      |                      |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.873          | 85   | 89821                | 101.455 | ug/l   | 100      |
| 3) Chloromethane             | 2.080          | 50   | 37072                | 102.783 | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.214          | 62   | 44356                | 100.868 | ug/l   | 93       |
| 5) Bromomethane              | 2.605          | 94   | 33090                | 106.564 | ug/l   | 99       |
| 6) Chloroethane              | 2.751          | 64   | 27563                | 103.130 | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.074          | 101  | 160384               | 101.420 | ug/l   | 99       |
| 8) Diethyl Ether             | 3.470          | 74   | 37549                | 99.200  | ug/l   | 74       |
| 9) 1,1,2-Trichlorotrifluo... | 3.836          | 101  | 87024                | 100.775 | ug/l   | 92       |
| 10) Methyl Iodide            | 4.025          | 142  | 107624               | 108.190 | ug/l # | 88       |
| 11) Tert butyl alcohol       | 4.891          | 59   | 25979                | 318.860 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 3.806          | 96   | 80132                | 104.556 | ug/l   | 84       |
| 13) Acrolein                 | 3.665          | 56   | 7342                 | 496.081 | ug/l   | 93       |
| 14) Allyl chloride           | 4.403          | 41   | 95186                | 105.911 | ug/l # | 73       |
| 15) Acrylonitrile            | 5.074          | 53   | 68275                | 489.356 | ug/l   | 98       |
| 16) Acetone                  | 3.885          | 43   | 49690                | 427.441 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.123          | 76   | 208423               | 109.076 | ug/l   | 100      |
| 18) Methyl Acetate           | 4.403          | 43   | 30643                | 101.885 | ug/l # | 85       |
| 19) Methyl tert-butyl Ether  | 5.135          | 73   | 208626               | 100.077 | ug/l # | 90       |
| 20) Methylene Chloride       | 4.635          | 84   | 76582                | 98.860  | ug/l # | 83       |
| 21) trans-1,2-Dichloroethene | 5.135          | 96   | 85046                | 102.915 | ug/l   | 91       |
| 22) Diisopropyl ether        | 6.031          | 45   | 188210               | 102.437 | ug/l # | 83       |
| 23) Vinyl Acetate            | 5.976          | 43   | 544539               | 500.508 | ug/l # | 87       |
| 24) 1,1-Dichloroethane       | 5.933          | 63   | 141575               | 103.363 | ug/l   | 97       |
| 25) 2-Butanone               | 6.909          | 43   | 73820                | 452.043 | ug/l # | 80       |
| 26) 2,2-Dichloropropane      | 6.903          | 77   | 168995               | 98.619  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.909          | 96   | 99555                | 101.147 | ug/l   | 92       |
| 28) Bromochloromethane       | 7.262          | 49   | 41610                | 98.532  | ug/l # | 55       |
| 29) Tetrahydrofuran          | 7.281          | 42   | 45035                | 469.198 | ug/l # | 71       |
| 30) Chloroform               | 7.433          | 83   | 174703               | 97.036  | ug/l   | 98       |
| 31) Cyclohexane              | 7.719          | 56   | 111397               | 92.759  | ug/l # | 79       |
| 32) 1,1,1-Trichloroethane    | 7.634          | 97   | 190628               | 101.352 | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.854          | 75   | 117395               | 101.890 | ug/l   | 95       |
| 37) Ethyl Acetate            | 6.994          | 43   | 36128                | 95.946  | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 7.829          | 117  | 192226               | 103.099 | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.116          | 83   | 151542               | 103.478 | ug/l   | 90       |
| 40) Benzene                  | 8.091          | 78   | 341310               | 102.685 | ug/l   | 98       |

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 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC100

Quant Time: Dec 23 13:47:20 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122324S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 23 13:45:38 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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 Supervised By :Mahesh Dadoda 12/26/2024

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.232  | 41   | 21222    | 99.583   | ug/l   | 88       |
| 42) 1,2-Dichloroethane        | 8.171  | 62   | 105608   | 99.903   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.207  | 43   | 78883    | 100.794  | ug/l # | 86       |
| 44) Trichloroethene           | 8.872  | 130  | 100237   | 101.613  | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.152  | 63   | 66549    | 101.903  | ug/l   | 99       |
| 46) Dibromomethane            | 9.238  | 93   | 46353    | 102.813  | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.433  | 83   | 130454   | 102.003  | ug/l # | 98       |
| 48) Methyl methacrylate       | 9.225  | 41   | 36664    | 98.826   | ug/l # | 78       |
| 49) 1,4-Dioxane               | 9.244  | 88   | 8370     | 1770.697 | ug/l   | 86       |
| 51) 4-Methyl-2-Pentanone      | 10.006 | 43   | 184189   | 471.139  | ug/l   | 94       |
| 52) Toluene                   | 10.176 | 92   | 233399   | 103.116  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.402 | 75   | 118321   | 104.556  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.865  | 75   | 129658   | 103.980  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.579 | 97   | 58085    | 99.500   | ug/l   | 92       |
| 56) Ethyl methacrylate        | 10.445 | 69   | 78593    | 105.543  | ug/l   | 88       |
| 57) 1,3-Dichloropropane       | 10.725 | 76   | 95590    | 100.174  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.719  | 63   | 148461   | 533.514  | ug/l # | 82       |
| 59) 2-Hexanone                | 10.768 | 43   | 126162   | 506.636  | ug/l   | 93       |
| 60) Dibromochloromethane      | 10.920 | 129  | 94400    | 101.284  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.024 | 107  | 53742    | 98.200   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.652 | 164  | 93704    | 102.542  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.451 | 112  | 263137   | 102.339  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131  | 101593   | 101.181  | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.524 | 91   | 473982   | 102.747  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.633 | 106  | 361168   | 205.313  | ug/l   | 99       |
| 69) o-Xylene                  | 11.963 | 106  | 170942   | 103.449  | ug/l   | 99       |
| 70) Styrene                   | 11.975 | 104  | 286046   | 102.918  | ug/l   | 99       |
| 71) Bromoform                 | 12.139 | 173  | 56620    | 98.450   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.261 | 105  | 479106   | 103.358  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.078 | 43   | 69966    | 107.418  | ug/l   | 94       |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83   | 57744    | 96.804   | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.566 | 75   | 47115m   | 105.483  | ug/l   |          |
| 77) Bromobenzene              | 12.542 | 156  | 108194   | 102.501  | ug/l   | 84       |
| 78) n-propylbenzene           | 12.603 | 91   | 535367   | 102.443  | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.688 | 91   | 302669   | 101.736  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.743 | 105  | 396768   | 103.198  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75   | 21044    | 97.335   | ug/l   | 86       |
| 82) 4-Chlorotoluene           | 12.786 | 91   | 308333   | 101.618  | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.005 | 119  | 368377   | 102.974  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.048 | 105  | 389540   | 103.718  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.182 | 105  | 500341   | 103.872  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.298 | 119  | 444365   | 105.520  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.298 | 146  | 208263   | 101.565  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.377 | 146  | 204683   | 101.883  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.627 | 91   | 374806   | 105.647  | ug/l   | 96       |
| 90) Hexachloroethane          | 13.889 | 117  | 84108    | 105.279  | ug/l   | 86       |
| 91) 1,2-Dichlorobenzene       | 13.670 | 146  | 178630   | 101.506  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75   | 10912    | 96.002   | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 14.932 | 180  | 118085   | 113.025  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.035 | 225  | 84724    | 108.914  | ug/l   | 98       |
| 95) Naphthalene               | 15.151 | 128  | 186615   | 93.198   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.340 | 180  | 98291    | 112.531  | ug/l   | 100      |

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APPROVED

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QLast Update : Mon Dec 23 13:45:38 2024  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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