

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051325\  
 Data File : VY022251.D  
 Acq On : 13 May 2025 18:36  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 05/14/2025  
 Supervised By :Semsettin Yesilyurt 05/15/2025

Quant Time: May 14 04:37:34 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 23 02:30:30 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|----------|------------|----------|
| -----                        |        |       |          |          |            |          |
| Internal Standards           |        |       |          |          |            |          |
| 1) Pentafluorobenzene        | 7.707  | 168   | 197164   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.616  | 114   | 289841   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5         | 11.414 | 117   | 277090   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.346 | 152   | 158439   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4    | 8.061  | 65    | 92973    | 51.051   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 50 - 163 | Recovery | = 102.100% |          |
| 35) Dibromofluoromethane     | 7.634  | 113   | 102339   | 53.445   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 54 - 147 | Recovery | = 106.900% |          |
| 50) Toluene-d8               | 10.103 | 98    | 391016   | 54.165   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 58 - 134 | Recovery | = 108.340% |          |
| 62) 4-Bromofluorobenzene     | 12.401 | 95    | 134345   | 55.282   | ug/l       | 0.00     |
| Spiked Amount                | 50.000 | Range | 30 - 143 | Recovery | = 110.560% |          |
| Target Compounds             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.861  | 85    | 68895    | 41.008   | ug/l       | 99       |
| 3) Chloromethane             | 2.062  | 50    | 125935   | 52.644   | ug/l       | 100      |
| 4) Vinyl Chloride            | 2.202  | 62    | 156251   | 53.153   | ug/l       | 98       |
| 5) Bromomethane              | 2.592  | 94    | 123823   | 48.891   | ug/l       | 97       |
| 6) Chloroethane              | 2.732  | 64    | 109465   | 54.677   | ug/l       | 94       |
| 7) Trichlorofluoromethane    | 3.049  | 101   | 192912   | 49.766   | ug/l       | 100      |
| 8) Diethyl Ether             | 3.452  | 74    | 48016    | 47.591   | ug/l       | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 3.812  | 101   | 104351   | 49.624   | ug/l       | 98       |
| 10) Methyl Iodide            | 4.001  | 142   | 116769   | 47.962   | ug/l       | 96       |
| 11) Tert butyl alcohol       | 4.878  | 59    | 26421    | 264.261  | ug/l #     | 70       |
| 12) 1,1-Dichloroethene       | 3.787  | 96    | 91311    | 46.587   | ug/l       | 96       |
| 13) Acrolein                 | 3.653  | 56    | 8714     | 48.560   | ug/l       | 100      |
| 14) Allyl chloride           | 4.378  | 41    | 116157   | 50.896   | ug/l       | 96       |
| 15) Acrylonitrile            | 5.055  | 53    | 102894   | 278.573  | ug/l       | 97       |
| 16) Acetone                  | 3.873  | 43    | 69378    | 294.878  | ug/l       | 90       |
| 17) Carbon Disulfide         | 4.098  | 76    | 281201   | 44.996   | ug/l       | 99       |
| 18) Methyl Acetate           | 4.391  | 43    | 64126    | 75.379   | ug/l       | 97       |
| 19) Methyl tert-butyl Ether  | 5.116  | 73    | 233048   | 53.123   | ug/l       | 98       |
| 20) Methylene Chloride       | 4.610  | 84    | 112793   | 48.980   | ug/l       | 96       |
| 21) trans-1,2-Dichloroethene | 5.110  | 96    | 108262   | 49.320   | ug/l       | 96       |
| 22) Diisopropyl ether        | 6.018  | 45    | 290873   | 57.271   | ug/l       | 98       |
| 23) Vinyl Acetate            | 5.964  | 43    | 728877   | 266.289  | ug/l       | 99       |
| 24) 1,1-Dichloroethane       | 5.915  | 63    | 187425   | 53.239   | ug/l       | 99       |
| 25) 2-Butanone               | 6.890  | 43    | 116990   | 281.817  | ug/l       | 96       |
| 26) 2,2-Dichloropropane      | 6.884  | 77    | 154917   | 50.207   | ug/l       | 99       |
| 27) cis-1,2-Dichloroethene   | 6.890  | 96    | 128558   | 52.378   | ug/l       | 99       |
| 28) Bromochloromethane       | 7.244  | 49    | 78423    | 57.351   | ug/l       | 95       |
| 29) Tetrahydrofuran          | 7.262  | 42    | 79848    | 296.153  | ug/l       | 99       |
| 30) Chloroform               | 7.421  | 83    | 212699   | 54.469   | ug/l       | 96       |
| 31) Cyclohexane              | 7.695  | 56    | 147566   | 49.017   | ug/l       | 93       |
| 32) 1,1,1-Trichloroethane    | 7.616  | 97    | 186478   | 52.784   | ug/l       | 99       |
| 36) 1,1-Dichloropropene      | 7.835  | 75    | 142261   | 55.308   | ug/l       | 99       |
| 37) Ethyl Acetate            | 6.982  | 43    | 55034    | 59.574   | ug/l       | 98       |
| 38) Carbon Tetrachloride     | 7.817  | 117   | 171058   | 55.655   | ug/l       | 98       |
| 39) Methylcyclohexane        | 9.109  | 83    | 171688   | 53.041   | ug/l       | 95       |
| 40) Benzene                  | 8.079  | 78    | 455893   | 56.700   | ug/l       | 99       |

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 Quant Title : SW846 8260  
 QLast Update : Wed Apr 23 02:30:30 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.213  | 41   | 27478    | 54.413   | ug/l   | 90       |
| 42) 1,2-Dichloroethane        | 8.158  | 62   | 117073   | 58.810   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.195  | 43   | 105783   | 59.627   | ug/l   | 98       |
| 44) Trichloroethene           | 8.866  | 130  | 120417   | 54.070   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.140  | 63   | 104865   | 58.976   | ug/l   | 98       |
| 46) Dibromomethane            | 9.231  | 93   | 64838    | 58.251   | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.420  | 83   | 166509   | 59.882   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.219  | 41   | 51276    | 62.523   | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.231  | 88   | 14061    | 1185.225 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43   | 307996   | 331.184  | ug/l   | 97       |
| 52) Toluene                   | 10.170 | 92   | 301770   | 57.981   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.390 | 75   | 138881   | 58.229   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.853  | 75   | 163556   | 57.688   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.573 | 97   | 90348    | 60.766   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.438 | 69   | 102100   | 60.050   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.713 | 76   | 142636   | 59.842   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.713  | 63   | 264880   | 318.629  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.762 | 43   | 202988   | 330.921  | ug/l   | 97       |
| 60) Dibromochloromethane      | 10.908 | 129  | 122456   | 59.489   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.011 | 107  | 83420    | 59.431   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.646 | 164  | 139661   | 53.429   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.438 | 112  | 335684   | 54.174   | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131  | 120877   | 55.410   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.517 | 91   | 563651   | 55.607   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.627 | 106  | 458345   | 113.635  | ug/l   | 99       |
| 69) o-Xylene                  | 11.956 | 106  | 213630   | 57.464   | ug/l   | 99       |
| 70) Styrene                   | 11.969 | 104  | 366034   | 58.641   | ug/l   | 99       |
| 71) Bromoform                 | 12.127 | 173  | 72949    | 57.517   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.255 | 105  | 557301   | 52.648   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.066 | 43   | 98482    | 54.150   | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83   | 97747    | 54.771   | ug/l   | 100      |
| 76) 1,2,3-Trichloropropane    | 12.554 | 75   | 70386m   | 51.865   | ug/l   |          |
| 77) Bromobenzene              | 12.529 | 156  | 137598   | 51.443   | ug/l   | 96       |
| 78) n-propylbenzene           | 12.590 | 91   | 680922   | 54.016   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.676 | 91   | 393681   | 53.700   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.737 | 105  | 469805   | 53.866   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75   | 30425    | 53.988   | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.773 | 91   | 407070   | 53.414   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 12.993 | 119  | 423785   | 54.178   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.042 | 105  | 472519   | 54.164   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.176 | 105  | 622020   | 54.343   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.292 | 119  | 530530   | 54.584   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.285 | 146  | 285826   | 52.613   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.365 | 146  | 280118   | 52.063   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.615 | 91   | 465722   | 53.607   | ug/l   | 100      |
| 90) Hexachloroethane          | 13.877 | 117  | 113966   | 53.368   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.657 | 146  | 252511   | 53.292   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75   | 15730    | 55.400   | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 14.919 | 180  | 140125   | 52.187   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.023 | 225  | 85245    | 51.601   | ug/l   | 99       |
| 95) Naphthalene               | 15.145 | 128  | 243265   | 54.540   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180  | 122823   | 52.992   | ug/l   | 99       |

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

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

