

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY011824\  
 Data File : VY017041.D  
 Acq On : 18 Jan 2024 16:31  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 01/19/2024  
 Supervised By :Semsettin Yesilyurt 01/19/2024

Quant Time: Jan 19 02:29:45 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y010224S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 02 14:25:32 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.820          | 168  | 135065     | 50.000  | ug/l   | 0.02     |
| 34) 1,4-Difluorobenzene      | 8.716          | 114  | 230920     | 50.000  | ug/l   | 0.01     |
| 63) Chlorobenzene-d5         | 11.514         | 117  | 193545     | 50.000  | ug/l   | 0.01     |
| 72) 1,4-Dichlorobenzene-d4   | 13.453         | 152  | 83081      | 50.000  | ug/l   | 0.02     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.167          | 65   | 59526      | 44.591  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 89.180% |        |          |
| 35) Dibromofluoromethane     | 7.746          | 113  | 71189      | 48.378  | ug/l   | 0.02     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 96.760% |        |          |
| 50) Toluene-d8               | 10.203         | 98   | 241876     | 47.734  | ug/l   | 0.01     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 95.460% |        |          |
| 62) 4-Bromofluorobenzene     | 12.508         | 95   | 81096      | 47.436  | ug/l   | 0.02     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 94.880% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.918          | 85   | 55923      | 55.692  | ug/l   | 98       |
| 3) Chloromethane             | 2.132          | 50   | 93885      | 59.173  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.272          | 62   | 109911     | 58.729  | ug/l   | 99       |
| 5) Bromomethane              | 2.674          | 94   | 77457      | 57.771  | ug/l   | 94       |
| 6) Chloroethane              | 2.820          | 64   | 71780      | 56.699  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.150          | 101  | 117906     | 51.131  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.552          | 74   | 32905      | 44.651  | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 3.930          | 101  | 74858      | 49.927  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.125          | 142  | 71991      | 56.439  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.979          | 59   | 14424      | 132.988 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 3.900          | 96   | 70325      | 54.666  | ug/l   | 97       |
| 13) Acrolein                 | 3.753          | 56   | 23822      | 160.835 | ug/l   | 98       |
| 14) Allyl chloride           | 4.509          | 41   | 106881     | 52.554  | ug/l   | 99       |
| 15) Acrylonitrile            | 5.198          | 53   | 68228      | 197.934 | ug/l   | 99       |
| 16) Acetone                  | 3.973          | 43   | 64298      | 189.597 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.229          | 76   | 219589     | 71.438  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.503          | 43   | 64884      | 45.367  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.259          | 73   | 143002     | 42.727  | ug/l   | 96       |
| 20) Methylene Chloride       | 4.753          | 84   | 80059      | 45.664  | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.259          | 96   | 82385      | 55.916  | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.149          | 45   | 227898     | 48.471  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.094          | 43   | 463865     | 215.164 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.052          | 63   | 141608     | 50.119  | ug/l   | 98       |
| 25) 2-Butanone               | 7.015          | 43   | 85583      | 185.358 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.015          | 77   | 118727     | 48.464  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.015          | 96   | 88292      | 51.121  | ug/l   | 99       |
| 28) Bromochloromethane       | 7.368          | 49   | 58238      | 54.904  | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.375          | 42   | 51318      | 189.936 | ug/l   | 98       |
| 30) Chloroform               | 7.539          | 83   | 141722     | 48.674  | ug/l   | 98       |
| 31) Cyclohexane              | 7.813          | 56   | 130556     | 56.982  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.734          | 97   | 122363     | 49.564  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 7.948          | 75   | 116044     | 54.112  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.106          | 43   | 37103      | 38.072  | ug/l   | 98       |
| 38) Carbon Tetrachloride     | 7.929          | 117  | 108757     | 49.916  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.210          | 83   | 140836     | 58.418  | ug/l   | 99       |
| 40) Benzene                  | 8.191          | 78   | 329970     | 51.293  | ug/l   | 100      |

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 Quant Title : SW846 8260  
 QLast Update : Tue Jan 02 14:25:32 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.350  | 41   | 23053m   | 44.915  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.265  | 62   | 77741    | 45.520  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.301  | 43   | 70782    | 37.927  | ug/l   | 98       |
| 44) Trichloroethene           | 8.966  | 130  | 82760    | 50.557  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.240  | 63   | 79126    | 47.743  | ug/l   | 99       |
| 46) Dibromomethane            | 9.331  | 93   | 37711    | 44.616  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.520  | 83   | 102911   | 45.341  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.319  | 41   | 41402    | 41.107  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.325  | 88   | 6502     | 742.935 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.094 | 43   | 182700   | 184.079 | ug/l   | 100      |
| 52) Toluene                   | 10.270 | 92   | 201439   | 51.885  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.490 | 75   | 91901    | 45.203  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.953  | 75   | 115943   | 47.487  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.667 | 97   | 51510    | 41.714  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.532 | 69   | 43123    | 41.230  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.813 | 76   | 89123    | 43.229  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.807  | 63   | 127218   | 197.253 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.856 | 43   | 126763   | 173.455 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.008 | 129  | 60638    | 42.582  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.112 | 107  | 46619    | 43.453  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.746 | 164  | 65648    | 52.318  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.538 | 112  | 200812   | 49.806  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.612 | 131  | 71909    | 46.917  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.618 | 91   | 387783   | 53.423  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.727 | 106  | 287163   | 107.777 | ug/l   | 100      |
| 69) o-Xylene                  | 12.050 | 106  | 131120   | 52.494  | ug/l   | 99       |
| 70) Styrene                   | 12.069 | 104  | 189738   | 52.192  | ug/l   | 99       |
| 71) Bromoform                 | 12.233 | 173  | 31836    | 42.193  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.355 | 105  | 361010   | 53.211  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.166 | 43   | 53700    | 39.396  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.605 | 83   | 53757    | 38.888  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.654 | 75   | 37280m   | 41.350  | ug/l   |          |
| 77) Bromobenzene              | 12.636 | 156  | 71829    | 48.087  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.697 | 91   | 441487   | 53.527  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.782 | 91   | 231731   | 50.666  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.837 | 105  | 285475   | 53.204  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.404 | 75   | 15342    | 38.641  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.880 | 91   | 238870   | 51.121  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.099 | 119  | 246952   | 52.254  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.142 | 105  | 276283   | 52.285  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.276 | 105  | 367221   | 52.440  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.392 | 119  | 305735   | 52.901  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.392 | 146  | 141767   | 48.392  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.471 | 146  | 138482   | 48.331  | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.721 | 91   | 297124   | 53.472  | ug/l   | 100      |
| 90) Hexachloroethane          | 13.983 | 117  | 60886    | 49.027  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.764 | 146  | 118217   | 46.695  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.379 | 75   | 6116     | 35.282  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.032 | 180  | 60868    | 48.417  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.135 | 225  | 39031    | 49.560  | ug/l   | 97       |
| 95) Naphthalene               | 15.263 | 128  | 100941   | 44.642  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.452 | 180  | 49113    | 46.009  | ug/l   | 98       |

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| 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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