

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY110923\  
 Data File : VY016292.D  
 Acq On : 09 Nov 2023 19:17  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 11/10/2023  
 Supervised By :Semsettin Yesilyurt 11/10/2023

Quant Time: Nov 09 23:03:36 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110823S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 09 00:45:52 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.801          | 168  | 157405              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.703          | 114  | 264374              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.501         | 117  | 237122              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.434         | 152  | 109373              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.154          | 65   | 80660               | 56.068  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 112.140% |         |        |          |
| 35) Dibromofluoromethane     | 7.734          | 113  | 79963               | 53.244  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 106.480% |         |        |          |
| 50) Toluene-d8               | 10.191         | 98   | 318485              | 52.295  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 104.600% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.489         | 95   | 106007              | 53.593  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 107.180% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.905          | 85   | 70848               | 45.968  | ug/l   | 95       |
| 3) Chloromethane             | 2.119          | 50   | 87098               | 48.252  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.253          | 62   | 91062               | 46.915  | ug/l   | 95       |
| 5) Bromomethane              | 2.655          | 94   | 62489               | 48.989  | ug/l   | 99       |
| 6) Chloroethane              | 2.802          | 64   | 61385               | 49.563  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.137          | 101  | 133899              | 47.416  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.539          | 74   | 47193               | 55.917  | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 3.911          | 101  | 81644               | 48.002  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.106          | 142  | 91599               | 49.865  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 31746               | 281.798 | ug/l # | 80       |
| 12) 1,1-Dichloroethene       | 3.887          | 96   | 77851               | 48.943  | ug/l   | 89       |
| 13) Acrolein                 | 3.740          | 56   | 31526               | 232.010 | ug/l   | 98       |
| 14) Allyl chloride           | 4.496          | 41   | 115651              | 51.236  | ug/l # | 92       |
| 15) Acrylonitrile            | 5.173          | 53   | 98060               | 292.772 | ug/l   | 97       |
| 16) Acetone                  | 3.954          | 43   | 61760               | 259.533 | ug/l   | 91       |
| 17) Carbon Disulfide         | 4.210          | 76   | 235685              | 49.108  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.490          | 43   | 81710               | 64.620  | ug/l # | 91       |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 216377              | 56.204  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.728          | 84   | 94961               | 56.974  | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.234          | 96   | 93085               | 50.827  | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.136          | 45   | 264782              | 54.431  | ug/l # | 86       |
| 23) Vinyl Acetate            | 6.075          | 43   | 641709              | 272.244 | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.033          | 63   | 155717              | 51.888  | ug/l   | 97       |
| 25) 2-Butanone               | 6.996          | 43   | 117181              | 281.139 | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 6.996          | 77   | 131391              | 48.105  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.002          | 96   | 103930              | 52.657  | ug/l   | 91       |
| 28) Bromochloromethane       | 7.350          | 49   | 62140               | 55.947  | ug/l   | 91       |
| 29) Tetrahydrofuran          | 7.362          | 42   | 84529               | 306.823 | ug/l   | 90       |
| 30) Chloroform               | 7.520          | 83   | 165013              | 52.825  | ug/l   | 97       |
| 31) Cyclohexane              | 7.801          | 56   | 130027              | 45.907  | ug/l   | 91       |
| 32) 1,1,1-Trichloroethane    | 7.715          | 97   | 145657              | 50.868  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 123854              | 47.494  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.087          | 43   | 56657               | 53.772  | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 7.917          | 117  | 130334              | 48.156  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.197          | 83   | 152370              | 46.891  | ug/l   | 91       |
| 40) Benzene                  | 8.173          | 78   | 368676              | 50.320  | ug/l   | 100      |

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 Quant Title : SW846 8260  
 QLast Update : Thu Nov 09 00:45:52 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 28005    | 52.713   | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.252  | 62   | 101258   | 53.340   | ug/l   | 92       |
| 43) Isopropyl Acetate         | 8.282  | 43   | 112548   | 55.260   | ug/l   | 92       |
| 44) Trichloroethene           | 8.953  | 130  | 103970   | 49.377   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.227  | 63   | 91355    | 51.920   | ug/l   | 97       |
| 46) Dibromomethane            | 9.319  | 93   | 51946    | 54.479   | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.508  | 83   | 127577   | 52.044   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.300  | 41   | 63908    | 56.776   | ug/l   | 85       |
| 49) 1,4-Dioxane               | 9.307  | 88   | 11469    | 1132.984 | ug/l # | 50       |
| 51) 4-Methyl-2-Pentanone      | 10.081 | 43   | 292755   | 284.251  | ug/l   | 91       |
| 52) Toluene                   | 10.258 | 92   | 232820   | 50.271   | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.477 | 75   | 127891   | 53.817   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.941  | 75   | 148941   | 52.475   | ug/l # | 90       |
| 55) 1,1,2-Trichloroethane     | 10.654 | 97   | 71473    | 54.385   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.520 | 69   | 70917    | 57.164   | ug/l # | 82       |
| 57) 1,3-Dichloropropane       | 10.800 | 76   | 120366   | 53.730   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.794  | 63   | 242756   | 288.583  | ug/l   | 93       |
| 59) 2-Hexanone                | 10.843 | 43   | 199769   | 260.769  | ug/l   | 88       |
| 60) Dibromochloromethane      | 10.995 | 129  | 89051    | 54.180   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.099 | 107  | 69192    | 55.262   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.733 | 164  | 106054   | 49.811   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.526 | 112  | 248704   | 49.091   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131  | 95094    | 50.891   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.605 | 91   | 442237   | 48.572   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.715 | 106  | 336507   | 97.444   | ug/l   | 95       |
| 69) o-Xylene                  | 12.038 | 106  | 160238   | 49.976   | ug/l   | 96       |
| 70) Styrene                   | 12.056 | 104  | 233854   | 50.937   | ug/l   | 98       |
| 71) Bromoform                 | 12.221 | 173  | 52685    | 54.338   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.343 | 105  | 421835   | 47.628   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.154 | 43   | 94252    | 52.980   | ug/l # | 88       |
| 75) 1,1,2,2-Tetrachloroethane | 12.593 | 83   | 74546    | 52.453   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.641 | 75   | 54297m   | 51.751   | ug/l   |          |
| 77) Bromobenzene              | 12.617 | 156  | 100753   | 50.333   | ug/l   | 95       |
| 78) n-propylbenzene           | 12.684 | 91   | 495727   | 47.362   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.769 | 91   | 281160   | 48.743   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.824 | 105  | 343109   | 48.049   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.391 | 75   | 25528    | 52.812   | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 12.867 | 91   | 291736   | 48.946   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.086 | 119  | 301289   | 47.902   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.129 | 105  | 344984   | 49.065   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.263 | 105  | 423603   | 47.142   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.379 | 119  | 369760   | 47.789   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.379 | 146  | 188264   | 48.886   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.458 | 146  | 186077   | 49.440   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.708 | 91   | 340290   | 47.623   | ug/l   | 97       |
| 90) Hexachloroethane          | 13.970 | 117  | 70857    | 47.474   | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 13.751 | 146  | 164140   | 49.739   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 11803    | 52.199   | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.019 | 180  | 96774    | 50.240   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.123 | 225  | 52150    | 47.256   | ug/l   | 98       |
| 95) Naphthalene               | 15.245 | 128  | 219540   | 63.725   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.434 | 180  | 81305    | 51.032   | ug/l   | 97       |

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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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