

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100923\  
 Data File : VY015879.D  
 Acq On : 09 Oct 2023 13:59  
 Operator : SY/MD  
 Sample : VSTDIC010  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC010

Manual Integrations  
 APPROVED

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

Quant Time: Oct 10 06:56:41 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100923S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 10 06:54:13 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 192001     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 317028     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 284731     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 138510     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 18656      | 10.799   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 21.600%# |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 18771      | 10.615   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 21.240%# |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 62299      | 10.690   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 21.380%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 25689      | 10.852   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 21.700%# |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.912          | 85   | 7723       | 10.056   | ug/l   | 96       |
| 3) Chloromethane             | 2.119          | 50   | 7416       | 9.441    | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.253          | 62   | 9531       | 9.513    | ug/l   | 92       |
| 5) Bromomethane              | 2.650          | 94   | 8552       | 10.410   | ug/l   | 90       |
| 6) Chloroethane              | 2.796          | 64   | 7609       | 9.672    | ug/l # | 85       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 21904      | 10.304   | ug/l   | 100      |
| 8) Diethyl Ether             | 3.534          | 74   | 9320       | 10.363   | ug/l   | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 3.906          | 101  | 14897      | 10.326   | ug/l   | 95       |
| 10) Methyl Iodide            | 4.101          | 142  | 10810      | 9.389    | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.966          | 59   | 22388      | 57.534   | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 10786      | 9.720    | ug/l   | 93       |
| 13) Acrolein                 | 3.741          | 56   | 5287       | 50.070   | ug/l   | 99       |
| 14) Allyl chloride           | 4.491          | 41   | 19169      | 9.369    | ug/l   | 94       |
| 15) Acrylonitrile            | 5.174          | 53   | 32466      | 52.496   | ug/l   | 98       |
| 16) Acetone                  | 3.960          | 43   | 41672      | 54.175   | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.198          | 76   | 11088      | 9.047    | ug/l   | 100      |
| 18) Methyl Acetate           | 4.491          | 43   | 22757      | 9.717    | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.235          | 73   | 51048      | 10.151   | ug/l   | 95       |
| 20) Methylene Chloride       | 4.729          | 84   | 28747      | 8.092    | ug/l   | 88       |
| 21) trans-1,2-Dichloroethene | 5.228          | 96   | 12203      | 9.477    | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.125          | 45   | 57029      | 10.421   | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.070          | 43   | 153310     | 50.945   | ug/l # | 95       |
| 24) 1,1-Dichloroethane       | 6.027          | 63   | 30688      | 10.180   | ug/l   | 94       |
| 25) 2-Butanone               | 6.990          | 43   | 51670      | 54.521   | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 29090      | 10.376   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 19495      | 10.258   | ug/l   | 95       |
| 28) Bromochloromethane       | 7.344          | 49   | 17972      | 10.344   | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.362          | 42   | 26305      | 50.738   | ug/l   | 91       |
| 30) Chloroform               | 7.515          | 83   | 34936      | 10.390   | ug/l   | 99       |
| 31) Cyclohexane              | 7.789          | 56   | 18964      | 10.249   | ug/l # | 74       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 28253      | 10.289   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 19554      | 9.985    | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.082          | 43   | 18171      | 10.803   | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 23621      | 10.043   | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.185          | 83   | 19437      | 9.771    | ug/l   | 95       |
| 40) Benzene                  | 8.167          | 78   | 61847      | 10.049   | ug/l   | 97       |

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 ALS Vial : 6 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Tue Oct 10 06:54:13 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 10024    | 9.579   | ug/l # | 90       |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 21812    | 10.397  | ug/l   | 94       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 31946    | 10.261  | ug/l # | 95       |
| 44) Trichloroethene           | 8.947  | 130  | 18259    | 10.252  | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 19282    | 10.416  | ug/l   | 98       |
| 46) Dibromomethane            | 9.313  | 93   | 11467    | 10.409  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.502  | 83   | 28704    | 10.476  | ug/l # | 97       |
| 48) Methyl methacrylate       | 9.295  | 41   | 13871    | 10.088  | ug/l   | 86       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 3752     | 195.923 | ug/l # | 58       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 98209    | 52.723  | ug/l   | 92       |
| 52) Toluene                   | 10.246 | 92   | 41806    | 10.233  | ug/l   | 94       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 28047    | 10.126  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 30439    | 10.117  | ug/l # | 89       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 18493    | 10.542  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 23856    | 10.017  | ug/l # | 84       |
| 57) 1,3-Dichloropropane       | 10.795 | 76   | 29071    | 10.279  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 75301    | 51.877  | ug/l   | 95       |
| 59) 2-Hexanone                | 10.837 | 43   | 76321    | 54.157  | ug/l   | 90       |
| 60) Dibromochloromethane      | 10.990 | 129  | 21738    | 10.337  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 16522    | 10.313  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 19723    | 10.614  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.520 | 112  | 51230    | 10.315  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 20911    | 10.301  | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.593 | 91   | 86817    | 10.189  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 65645    | 20.446  | ug/l   | 95       |
| 69) o-Xylene                  | 12.032 | 106  | 32607    | 10.151  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 57067    | 10.182  | ug/l   | 96       |
| 71) Bromoform                 | 12.209 | 173  | 14336    | 10.142  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.331 | 105  | 91456    | 10.467  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 27897    | 10.131  | ug/l # | 91       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 23774    | 10.494  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 19335m   | 12.325  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 22875    | 10.677  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.672 | 91   | 110057   | 10.474  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 61698    | 10.308  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 74954    | 10.408  | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 7410     | 10.162  | ug/l   | 95       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 65310    | 10.471  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 70486    | 10.488  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 76192    | 10.507  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.258 | 105  | 105049   | 10.658  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 85434    | 10.478  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 45683    | 10.591  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 45988    | 10.587  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 81450    | 10.556  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.965 | 117  | 17311    | 10.580  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 43144    | 10.761  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 4264     | 10.717  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 26213    | 10.201  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 14587    | 10.601  | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 58013    | 9.759   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 23373    | 10.226  | ug/l   | 98       |

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Quant Title : SW846 8260  
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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

