

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY020124\  
 Data File : VY017167.D  
 Acq On : 01 Feb 2024 14:24  
 Operator : SY/MD  
 Sample : VSTDICC020  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC020

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/02/2024  
 Supervised By :Mahesh Dadoda 02/02/2024

Quant Time: Feb 02 00:37:36 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020124S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 02 00:27:48 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 130700     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 219668     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.502         | 117  | 189519     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.434         | 152  | 83399      | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 22348      | 19.140   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 38.280%# |        |          |
| 35) Dibromofluoromethane     | 7.728          | 113  | 22653      | 19.099   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 38.200%# |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 79997      | 18.525   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 37.040%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.489         | 95   | 26541      | 18.762   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 37.520%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 21480      | 21.679   | ug/l   | 93       |
| 3) Chloromethane             | 2.113          | 50   | 36842      | 20.699   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.253          | 62   | 44201      | 20.378   | ug/l   | 99       |
| 5) Bromomethane              | 2.650          | 94   | 30096      | 20.017   | ug/l   | 95       |
| 6) Chloroethane              | 2.796          | 64   | 28105      | 20.068   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 45477      | 20.389   | ug/l   | 96       |
| 8) Diethyl Ether             | 3.534          | 74   | 14597      | 20.806   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905          | 101  | 26910      | 19.904   | ug/l   | 100      |
| 10) Methyl Iodide            | 4.101          | 142  | 28470      | 20.029   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.960          | 59   | 11764      | 110.504  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 25229      | 19.914   | ug/l   | 96       |
| 13) Acrolein                 | 3.729          | 56   | 11668      | 114.245  | ug/l   | 99       |
| 14) Allyl chloride           | 4.485          | 41   | 38400      | 20.049   | ug/l   | 97       |
| 15) Acrylonitrile            | 5.167          | 53   | 32076      | 101.544  | ug/l   | 99       |
| 16) Acetone                  | 3.954          | 43   | 36693      | 106.923  | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.198          | 76   | 81258      | 20.093   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.485          | 43   | 13978      | 18.259   | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.228          | 73   | 60648      | 19.877   | ug/l   | 98       |
| 20) Methylene Chloride       | 4.722          | 84   | 31213      | 20.114   | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 28838      | 20.009   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.131          | 45   | 85818      | 20.404   | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.064          | 43   | 265417     | 104.147  | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 51359      | 19.933   | ug/l   | 99       |
| 25) 2-Butanone               | 6.996          | 43   | 48562      | 106.448  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 41727      | 19.470   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.996          | 96   | 31616      | 19.614   | ug/l   | 99       |
| 28) Bromochloromethane       | 7.338          | 49   | 18335      | 18.585   | ug/l   | 100      |
| 29) Tetrahydrofuran          | 7.356          | 42   | 26545      | 103.004  | ug/l   | 98       |
| 30) Chloroform               | 7.515          | 83   | 51815      | 19.991   | ug/l   | 99       |
| 31) Cyclohexane              | 7.795          | 56   | 45483      | 19.326   | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 43758      | 19.627   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.929          | 75   | 41268      | 20.171   | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.088          | 43   | 19463      | 20.511   | ug/l   | 99       |
| 38) Carbon Tetrachloride     | 7.911          | 117  | 37890      | 19.343   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.191          | 83   | 45805      | 19.164   | ug/l   | 96       |
| 40) Benzene                  | 8.167          | 78   | 117586     | 20.126   | ug/l   | 99       |

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 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC020

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 Quant Title : SW846 8260  
 QLast Update : Fri Feb 02 00:27:48 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.326  | 41   | 10159m   | 22.596  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 31502    | 20.365  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 34400    | 20.479  | ug/l   | 99       |
| 44) Trichloroethene           | 8.947  | 130  | 29231    | 19.710  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 29412    | 20.495  | ug/l   | 98       |
| 46) Dibromomethane            | 9.313  | 93   | 16004    | 20.645  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.502  | 83   | 39071    | 20.140  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.301  | 41   | 15810    | 20.066  | ug/l   | 99       |
| 49) 1,4-Dioxane               | 9.307  | 88   | 3508     | 415.761 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 93455    | 103.789 | ug/l   | 99       |
| 52) Toluene                   | 10.252 | 92   | 70337    | 19.945  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.471 | 75   | 35714    | 19.599  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 43697    | 20.020  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.654 | 97   | 21476    | 20.362  | ug/l   | 99       |
| 56) Ethyl methacrylate        | 10.520 | 69   | 25529    | 19.914  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.801 | 76   | 37028    | 20.412  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 68807    | 104.720 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.837 | 43   | 68838    | 105.725 | ug/l   | 100      |
| 60) Dibromochloromethane      | 10.990 | 129  | 24533    | 19.828  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.099 | 107  | 19736    | 20.120  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.727 | 164  | 24410    | 19.832  | ug/l   | 96       |
| 65) Chlorobenzene             | 11.526 | 112  | 72745    | 19.898  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.599 | 131  | 26543    | 19.978  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.599 | 91   | 129665   | 19.624  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.709 | 106  | 99881    | 39.833  | ug/l   | 100      |
| 69) o-Xylene                  | 12.038 | 106  | 45263    | 19.602  | ug/l   | 97       |
| 70) Styrene                   | 12.050 | 104  | 76280    | 20.049  | ug/l   | 99       |
| 71) Bromoform                 | 12.215 | 173  | 13831    | 19.878  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.337 | 105  | 121309   | 19.800  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.154 | 43   | 27580    | 20.034  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 23958    | 19.881  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.642 | 75   | 15438m   | 18.795  | ug/l   |          |
| 77) Bromobenzene              | 12.617 | 156  | 26286    | 19.342  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.678 | 91   | 147733   | 19.633  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.764 | 91   | 83031    | 20.071  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.818 | 105  | 96166    | 19.736  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 7173     | 19.363  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 83727    | 19.665  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.081 | 119  | 81360    | 19.479  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.129 | 105  | 94798    | 19.710  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.264 | 105  | 129558   | 19.846  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.379 | 119  | 100722   | 19.308  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.373 | 146  | 52420    | 19.335  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 51734    | 19.642  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.702 | 91   | 97022    | 19.561  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 20467    | 19.111  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 45369    | 19.658  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.367 | 75   | 3185     | 20.291  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 22388    | 19.529  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 12637    | 18.716  | ug/l   | 97       |
| 95) Naphthalene               | 15.245 | 128  | 39125    | 19.707  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 18917    | 19.402  | ug/l   | 98       |

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Quant Time: Feb 02 00:37:36 2024  
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Quant Title : SW846 8260  
QLast Update : Fri Feb 02 00:27:48 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

