

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY012524\  
 Data File : VY017107.D  
 Acq On : 25 Jan 2024 16:21  
 Operator : SY/MD  
 Sample : P1187-01 4PPB  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Jan 26 10:50:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y012424S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 26 10:50:25 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/29/2024  
 Supervised By :Semsettin Yesilyurt 01/29/2024

| Compound                     | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                        |                |      |                     |        |        |          |
| Internal Standards           |                |      |                     |        |        |          |
| 1) Pentafluorobenzene        | 7.795          | 168  | 109316              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.697          | 114  | 190122              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 157566              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.434         | 152  | 64596               | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.149          | 65   | 57356               | 53.852 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 107.700% |        |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 62013               | 54.043 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 108.080% |        |        |          |
| 50) Toluene-d8               | 10.185         | 98   | 238722              | 55.081 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 110.160% |        |        |          |
| 62) 4-Bromofluorobenzene     | 12.489         | 95   | 67334               | 50.433 | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 100.860% |        |        |          |
| Target Compounds             |                |      |                     |        |        |          |
|                              |                |      |                     |        | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 4677                | 4.924  | ug/l   | 96       |
| 3) Chloromethane             | 2.119          | 50   | 8450                | 5.302  | ug/l   | 93       |
| 4) Vinyl Chloride            | 2.253          | 62   | 10164               | 5.580  | ug/l   | 99       |
| 5) Bromomethane              | 2.656          | 94   | 7884                | 5.809  | ug/l   | 98       |
| 6) Chloroethane              | 2.802          | 64   | 6497                | 5.567  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 9733                | 4.610  | ug/l   | 93       |
| 8) Diethyl Ether             | 3.534          | 74   | 2319                | 3.682  | ug/l   | 76       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905          | 101  | 5843                | 4.779  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.101          | 142  | 4430                | 3.814  | ug/l   | 97       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 2058                | 25.498 | ug/l # | 75       |
| 12) 1,1-Dichloroethene       | 3.881          | 96   | 5157                | 4.607  | ug/l   | 96       |
| 13) Acrolein                 | 3.741          | 56   | 2433                | 19.047 | ug/l   | 97       |
| 14) Allyl chloride           | 4.485          | 41   | 7446                | 4.401  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.173          | 53   | 5128                | 18.760 | ug/l   | 97       |
| 16) Acetone                  | 3.948          | 43   | 6112                | 17.693 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.198          | 76   | 16680               | 4.944  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.485          | 43   | 4105                | 3.757  | ug/l # | 81       |
| 19) Methyl tert-butyl Ether  | 5.234          | 73   | 10210               | 3.738  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.728          | 84   | 8754                | 5.965  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.228          | 96   | 5853                | 4.521  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.125          | 45   | 14650               | 3.923  | ug/l # | 97       |
| 23) Vinyl Acetate            | 6.070          | 43   | 32736               | 18.072 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.027          | 63   | 10495               | 4.608  | ug/l   | 98       |
| 25) 2-Butanone               | 6.996          | 43   | 7117                | 16.784 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.990          | 77   | 8762                | 4.504  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 6087                | 4.243  | ug/l   | 95       |
| 28) Bromochloromethane       | 7.344          | 49   | 3376                | 3.723  | ug/l # | 99       |
| 29) Tetrahydrofuran          | 7.356          | 42   | 3642                | 16.863 | ug/l   | 96       |
| 30) Chloroform               | 7.515          | 83   | 10549               | 4.548  | ug/l   | 91       |
| 31) Cyclohexane              | 7.795          | 56   | 11307               | 5.373  | ug/l # | 74       |
| 32) 1,1,1-Trichloroethane    | 7.710          | 97   | 9162                | 4.607  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.923          | 75   | 8592                | 4.551  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.088          | 43   | 3285                | 4.047  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 8327                | 4.501  | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.191          | 83   | 9860                | 4.342  | ug/l   | 92       |
| 40) Benzene                  | 8.167          | 78   | 23366               | 4.262  | ug/l   | 97       |

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 Quant Title : SW846 8260  
 QLast Update : Fri Jan 26 10:50:25 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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 Supervised By :Semsettin Yesilyurt 01/29/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.313  | 41   | 1575     | 3.628  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.246  | 62   | 5621     | 3.954  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.283  | 43   | 5269     | 3.477  | ug/l # | 89       |
| 44) Trichloroethene           | 8.947  | 130  | 6224     | 4.426  | ug/l   | 89       |
| 45) 1,2-Dichloropropane       | 9.222  | 63   | 5656     | 4.203  | ug/l   | 95       |
| 46) Dibromomethane            | 9.313  | 93   | 2717     | 3.802  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.502  | 83   | 7397     | 4.068  | ug/l   | 94       |
| 48) Methyl methacrylate       | 9.301  | 41   | 2848     | 3.385  | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 517      | 73.551 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone      | 10.075 | 43   | 13156    | 16.319 | ug/l   | 95       |
| 52) Toluene                   | 10.246 | 92   | 14581    | 4.394  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.477 | 75   | 6107     | 3.677  | ug/l   | 93       |
| 54) cis-1,3-Dichloropropene   | 9.935  | 75   | 7750     | 3.794  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.654 | 97   | 3901     | 3.905  | ug/l   | 91       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 2893     | 3.312  | ug/l   | 94       |
| 57) 1,3-Dichloropropane       | 10.801 | 76   | 6431     | 3.808  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.789  | 63   | 9281     | 15.307 | ug/l   | 96       |
| 59) 2-Hexanone                | 10.837 | 43   | 8887     | 14.450 | ug/l   | 96       |
| 60) Dibromochloromethane      | 10.996 | 129  | 4466     | 3.848  | ug/l   | 95       |
| 61) 1,2-Dibromoethane         | 11.099 | 107  | 3267     | 3.600  | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.727 | 164  | 4964     | 4.520  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.526 | 112  | 14290    | 4.280  | ug/l   | 93       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 5147     | 4.220  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.599 | 91   | 24512    | 4.038  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.709 | 106  | 17542    | 7.692  | ug/l   | 94       |
| 69) o-Xylene                  | 12.038 | 106  | 8215     | 3.965  | ug/l   | 96       |
| 70) Styrene                   | 12.050 | 104  | 10536    | 3.503  | ug/l   | 97       |
| 71) Bromoform                 | 12.215 | 173  | 2249     | 3.677  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.337 | 105  | 21693    | 4.085  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.154 | 43   | 3648     | 3.408  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 4235     | 4.182  | ug/l   | 92       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 3385m    | 4.317  | ug/l   |          |
| 77) Bromobenzene              | 12.617 | 156  | 4734     | 4.120  | ug/l   | 96       |
| 78) n-propylbenzene           | 12.678 | 91   | 28413    | 4.448  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.764 | 91   | 15774    | 4.501  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.818 | 105  | 17551    | 4.176  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.386 | 75   | 1063m    | 3.510  | ug/l   |          |
| 82) 4-Chlorotoluene           | 12.861 | 91   | 15522    | 4.273  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.081 | 119  | 15133    | 4.163  | ug/l   | 95       |
| 84) 1,2,4-Trimethylbenzene    | 13.129 | 105  | 16302    | 3.903  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.257 | 105  | 22931    | 4.260  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.379 | 119  | 17817    | 3.974  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.373 | 146  | 9585     | 4.225  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 9739     | 4.363  | ug/l   | 94       |
| 89) n-Butylbenzene            | 13.702 | 91   | 18020    | 4.167  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.965 | 117  | 4349     | 4.654  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 7757     | 4.004  | ug/l   | 95       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 436      | 3.371  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 3650     | 3.605  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 2854     | 4.684  | ug/l   | 99       |
| 95) Naphthalene               | 15.239 | 128  | 5290     | 2.958  | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 3083     | 3.660  | ug/l   | 99       |

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ALS Vial : 10 Sample Multiplier: 1

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Manual Integrations  
APPROVED

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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) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

