

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY122122\  
 Data File : VY011942.D  
 Acq On : 21 Dec 2022 13:25  
 Operator : KP/MD  
 Sample : VY1221SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY1221SBS01

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 12/22/2022  
 Supervised By :Mahesh Dadoda 12/22/2022

Quant Time: Dec 22 00:13:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y122022S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 20 12:37:37 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 224581              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 345902              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 312038              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 154359              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.142          | 65   | 121442              | 53.674  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 107.340% |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 110299              | 52.967  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 105.940% |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 451179              | 53.401  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 106.800% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 150515              | 52.969  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 105.940% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 23498               | 14.938  | ug/l   | 91       |
| 3) Chloromethane             | 2.113          | 50   | 31754               | 15.887  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.253          | 62   | 36873               | 16.728  | ug/l   | 97       |
| 5) Bromomethane              | 2.643          | 94   | 28158               | 17.955  | ug/l   | 98       |
| 6) Chloroethane              | 2.790          | 64   | 25482               | 17.686  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 71519               | 18.535  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.527          | 74   | 23037               | 19.349  | ug/l   | 92       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 40535               | 19.083  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.088          | 142  | 49460               | 16.829  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 29844               | 115.501 | ug/l # | 95       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 39134               | 18.418  | ug/l   | 92       |
| 13) Acrolein                 | 3.729          | 56   | 24932               | 117.878 | ug/l   | 99       |
| 14) Allyl chloride           | 4.485          | 41   | 58551               | 18.712  | ug/l   | 96       |
| 15) Acrylonitrile            | 5.161          | 53   | 57591               | 103.986 | ug/l   | 99       |
| 16) Acetone                  | 3.948          | 43   | 53279               | 82.208  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.192          | 76   | 116691              | 17.217  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.478          | 43   | 32988               | 21.100  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 110027              | 20.182  | ug/l   | 97       |
| 20) Methylene Chloride       | 4.716          | 84   | 64454               | 21.299  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 46248               | 19.156  | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.118          | 45   | 125048              | 20.291  | ug/l   | 97       |
| 23) Vinyl Acetate            | 6.057          | 43   | 357489              | 100.826 | ug/l   | 98       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 78415               | 19.575  | ug/l   | 99       |
| 25) 2-Butanone               | 6.978          | 43   | 73596               | 97.647  | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 75794               | 19.336  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 51361               | 19.669  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.332          | 49   | 22827               | 20.766  | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 45104               | 105.624 | ug/l   | 96       |
| 30) Chloroform               | 7.508          | 83   | 86064               | 19.933  | ug/l   | 100      |
| 31) Cyclohexane              | 7.783          | 56   | 72790               | 19.110  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.697          | 97   | 80537               | 19.611  | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 64870               | 19.421  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.069          | 43   | 30419               | 20.298  | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 76177               | 19.746  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.185          | 83   | 78604               | 19.557  | ug/l   | 96       |
| 40) Benzene                  | 8.161          | 78   | 186153              | 19.474  | ug/l   | 99       |

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 Quant Title : SW846 8260  
 QLast Update : Tue Dec 20 12:37:37 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.301  | 41   | 13664    | 18.855  | ug/l # | 100      |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 55972    | 20.340  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.270  | 43   | 56871    | 20.778  | ug/l   | 98       |
| 44) Trichloroethene           | 8.941  | 130  | 52275    | 19.401  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 43585    | 19.734  | ug/l   | 99       |
| 46) Dibromomethane            | 9.307  | 93   | 25950    | 20.397  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.496  | 83   | 63932    | 19.808  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.295  | 41   | 25737    | 20.309  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 6602     | 434.641 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 154791   | 106.062 | ug/l   | 99       |
| 52) Toluene                   | 10.240 | 92   | 122384   | 20.095  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 65273    | 20.014  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 73769    | 20.123  | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 36863    | 20.419  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 47304    | 20.695  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 61875    | 20.537  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 92586    | 104.969 | ug/l   | 94       |
| 59) 2-Hexanone                | 10.831 | 43   | 109509   | 101.995 | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.983 | 129  | 46798    | 20.577  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 34923    | 20.676  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 55056    | 20.157  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.514 | 112  | 129631   | 20.008  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 48463    | 20.104  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.593 | 91   | 232148   | 19.822  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 181585   | 39.868  | ug/l   | 100      |
| 69) o-Xylene                  | 12.026 | 106  | 85910    | 20.272  | ug/l   | 99       |
| 70) Styrene                   | 12.044 | 104  | 144817   | 20.352  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 29615    | 20.733  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.331 | 105  | 231215   | 20.186  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 48922    | 20.833  | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 41053    | 21.484  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.629 | 75   | 31687m   | 16.497  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 53829    | 20.313  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.672 | 91   | 282335   | 20.506  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 155139   | 20.045  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 200067   | 20.401  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.379 | 75   | 14609    | 20.829  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 163001   | 20.355  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 171514   | 20.636  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 196520   | 20.369  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 256397   | 20.659  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 212723   | 20.313  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 106745   | 20.030  | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 106039   | 20.014  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 190273   | 20.071  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.958 | 117  | 39872    | 19.955  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 94578    | 20.356  | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 6871     | 20.923  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 53184    | 19.459  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 35141    | 19.898  | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 100592   | 19.490  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 45694    | 19.774  | ug/l   | 99       |

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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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