

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051022\  
 Data File : VY008694.D  
 Acq On : 10 May 2022 20:50  
 Operator : KP/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 : John Carlone 05/11/2022  
 Supervised By : Mahesh Dadoda 05/11/2022

Quant Time: May 11 04:35:38 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050922S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 09 19:21:20 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 210742     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 338572     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 316090     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 158946     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.136          | 65   | 91770      | 50.821   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 101.640% |        |          |
| 35) Dibromofluoromethane     | 7.715          | 113  | 103228     | 49.476   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 98.960%  |        |          |
| 50) Toluene-d8               | 10.178         | 98   | 366189     | 49.805   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 99.600%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 128690     | 48.651   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 97.300%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.918          | 85   | 36146      | 32.816   | ug/l   | 98       |
| 3) Chloromethane             | 2.113          | 50   | 54479      | 40.176   | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.259          | 62   | 87466      | 50.805   | ug/l   | 99       |
| 5) Bromomethane              | 2.661          | 94   | 66627      | 48.156   | ug/l   | 98       |
| 6) Chloroethane              | 2.796          | 64   | 54427      | 46.075   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 91208      | 43.784   | ug/l   | 96       |
| 8) Diethyl Ether             | 3.521          | 74   | 62856      | 47.696   | ug/l   | 74       |
| 9) 1,1,2-Trichlorotrifluo... | 3.905          | 101  | 99996      | 46.910   | ug/l   | 94       |
| 10) Methyl Iodide            | 4.088          | 142  | 173233     | 48.969   | ug/l # | 86       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 42198      | 271.416  | ug/l # | 92       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 105155     | 47.668   | ug/l # | 76       |
| 13) Acrolein                 | 3.722          | 56   | 43098      | 241.695  | ug/l   | 97       |
| 14) Allyl chloride           | 4.472          | 41   | 139951     | 49.040   | ug/l # | 84       |
| 15) Acrylonitrile            | 5.155          | 53   | 151413     | 256.393  | ug/l   | 97       |
| 16) Acetone                  | 3.942          | 43   | 102248     | 240.006  | ug/l # | 82       |
| 17) Carbon Disulfide         | 4.192          | 76   | 278945     | 47.677   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.472          | 43   | 65032      | 51.475   | ug/l # | 83       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 198787     | 48.882   | ug/l   | 95       |
| 20) Methylene Chloride       | 4.710          | 84   | 135734     | 52.464   | ug/l # | 79       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 121775     | 49.114   | ug/l # | 81       |
| 22) Diisopropyl ether        | 6.112          | 45   | 321513     | 52.044   | ug/l # | 91       |
| 23) Vinyl Acetate            | 6.057          | 43   | 1042322    | 267.114  | ug/l # | 88       |
| 24) 1,1-Dichloroethane       | 6.014          | 63   | 199164     | 50.211   | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 173878     | 248.289  | ug/l # | 82       |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 127432     | 48.056   | ug/l   | 89       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 141973     | 50.650   | ug/l   | 76       |
| 28) Bromochloromethane       | 7.331          | 49   | 73660      | 52.366   | ug/l # | 65       |
| 29) Tetrahydrofuran          | 7.337          | 42   | 119994     | 256.380  | ug/l # | 78       |
| 30) Chloroform               | 7.502          | 83   | 213358     | 50.862   | ug/l   | 99       |
| 31) Cyclohexane              | 7.782          | 56   | 163820     | 45.861   | ug/l # | 85       |
| 32) 1,1,1-Trichloroethane    | 7.697          | 97   | 170512     | 49.599   | ug/l   | 93       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 155563     | 46.406   | ug/l   | 94       |
| 37) Ethyl Acetate            | 7.069          | 43   | 84252      | 50.546   | ug/l # | 92       |
| 38) Carbon Tetrachloride     | 7.898          | 117  | 163446     | 48.206   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.179          | 83   | 202517     | 46.711   | ug/l # | 87       |
| 40) Benzene                  | 8.160          | 78   | 481079     | 49.394   | ug/l   | 97       |

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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) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.319  | 41   | 45799m   | 49.823   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 123592   | 48.952   | ug/l   | 87       |
| 43) Isopropyl Acetate         | 8.270  | 43   | 152467   | 50.353   | ug/l # | 85       |
| 44) Trichloroethene           | 8.935  | 130  | 137942   | 48.530   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 120201   | 50.583   | ug/l   | 95       |
| 46) Dibromomethane            | 9.307  | 93   | 73285    | 49.274   | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.496  | 83   | 165558   | 49.851   | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.288  | 41   | 64999    | 49.312   | ug/l # | 72       |
| 49) 1,4-Dioxane               | 9.300  | 88   | 18493    | 1028.226 | ug/l # | 72       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 403419   | 254.738  | ug/l # | 83       |
| 52) Toluene                   | 10.239 | 92   | 314726   | 49.635   | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 173260   | 48.548   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.928  | 75   | 199146   | 48.898   | ug/l # | 76       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 105089   | 49.547   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 136487   | 50.853   | ug/l # | 71       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 173841   | 50.106   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 344931   | 259.549  | ug/l   | 91       |
| 59) 2-Hexanone                | 10.831 | 43   | 278304   | 256.584  | ug/l   | 79       |
| 60) Dibromochloromethane      | 10.983 | 129  | 130092   | 50.510   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 103979   | 49.748   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.715 | 164  | 114544   | 46.492   | ug/l   | 99       |
| 65) Chlorobenzene             | 11.513 | 112  | 347053   | 49.080   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 130854   | 49.831   | ug/l   | 96       |
| 67) Ethyl Benzene             | 11.593 | 91   | 597366   | 49.161   | ug/l   | 95       |
| 68) m/p-Xylenes               | 11.702 | 106  | 477948   | 98.307   | ug/l   | 89       |
| 69) o-Xylene                  | 12.026 | 106  | 230661   | 50.010   | ug/l   | 88       |
| 70) Styrene                   | 12.044 | 104  | 389447   | 50.853   | ug/l   | 93       |
| 71) Bromoform                 | 12.208 | 173  | 85855    | 50.729   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.330 | 105  | 594925   | 48.992   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.141 | 43   | 138977   | 50.972   | ug/l # | 80       |
| 75) 1,1,2,2-Tetrachloroethane | 12.580 | 83   | 125929   | 49.545   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.635 | 75   | 86106m   | 48.057   | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 149586   | 49.234   | ug/l   | 88       |
| 78) n-propylbenzene           | 12.672 | 91   | 705009   | 48.831   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.757 | 91   | 388999   | 48.702   | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 490679   | 49.890   | ug/l   | 97       |
| 81) trans-1,4-Dichloro-2-b... | 12.379 | 75   | 43475    | 48.274   | ug/l # | 78       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 403628   | 48.731   | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.074 | 119  | 443654   | 50.283   | ug/l   | 90       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 486182   | 50.055   | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 648596   | 49.736   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 538938   | 49.734   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 285714   | 48.614   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 283840   | 48.708   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 487920   | 49.199   | ug/l   | 98       |
| 90) Hexachloroethane          | 13.958 | 117  | 105238   | 50.019   | ug/l   | 92       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 256221   | 49.151   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.354 | 75   | 17879    | 47.527   | ug/l   | 61       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 161575   | 48.519   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.110 | 225  | 91513    | 50.149   | ug/l   | 100      |
| 95) Naphthalene               | 15.238 | 128  | 343030   | 50.350   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.421 | 180  | 144998   | 49.407   | 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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