

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051623\  
 Data File : VY013765.D  
 Acq On : 16 May 2023 17:32  
 Operator : KP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 05/17/2023  
 Supervised By :Mahesh Dadoda 05/17/2023

Quant Time: May 17 07:52:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042423S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:39:58 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 183877              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 285738              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 259883              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 138728              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.136          | 65   | 112600              | 55.862  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 111.720% |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 104640              | 58.225  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 116.460% |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 343161              | 53.676  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 107.360% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.477         | 95   | 132243              | 61.357  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 122.720% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 90575               | 51.814  | ug/l   | 99       |
| 3) Chloromethane             | 2.107          | 50   | 131457              | 56.102  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.247          | 62   | 135768              | 58.192  | ug/l   | 99       |
| 5) Bromomethane              | 2.650          | 94   | 107740              | 57.949  | ug/l   | 99       |
| 6) Chloroethane              | 2.790          | 64   | 90133               | 55.921  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 195256              | 55.244  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.521          | 74   | 66074               | 54.898  | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893          | 101  | 114565              | 57.788  | ug/l   | 94       |
| 10) Methyl Iodide            | 4.088          | 142  | 121782              | 48.908  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.972          | 59   | 54623               | 240.617 | ug/l # | 89       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 102468              | 53.620  | ug/l   | 89       |
| 13) Acrolein                 | 3.723          | 56   | 28123               | 156.364 | ug/l   | 94       |
| 14) Allyl chloride           | 4.472          | 41   | 204527              | 57.680  | ug/l   | 96       |
| 15) Acrylonitrile            | 5.161          | 53   | 187670              | 278.421 | ug/l   | 100      |
| 16) Acetone                  | 3.948          | 43   | 198831              | 250.480 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.192          | 76   | 284309              | 45.800  | ug/l   | 98       |
| 18) Methyl Acetate           | 4.472          | 43   | 143555              | 54.755  | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 318552              | 57.740  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.710          | 84   | 137060              | 56.103  | ug/l # | 86       |
| 21) trans-1,2-Dichloroethene | 5.210          | 96   | 117546              | 56.257  | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.112          | 45   | 450946              | 65.065  | ug/l # | 95       |
| 23) Vinyl Acetate            | 6.058          | 43   | 1324436             | 337.512 | ug/l   | 95       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 236821              | 61.310  | ug/l   | 99       |
| 25) 2-Butanone               | 6.978          | 43   | 270490              | 268.686 | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 199664              | 59.987  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 137942              | 59.752  | ug/l   | 92       |
| 28) Bromochloromethane       | 7.332          | 49   | 85045               | 62.044  | ug/l # | 76       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 169068              | 269.793 | ug/l   | 91       |
| 30) Chloroform               | 7.502          | 83   | 237017              | 61.715  | ug/l   | 99       |
| 31) Cyclohexane              | 7.783          | 56   | 196249              | 54.378  | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 7.697          | 97   | 204538              | 59.683  | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 173971              | 58.328  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.070          | 43   | 120901              | 53.865  | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 181866              | 58.176  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.179          | 83   | 203228              | 57.797  | ug/l   | 95       |
| 40) Benzene                  | 8.155          | 78   | 498579              | 59.342  | 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) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.301  | 41   | 66417    | 63.500   | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 162256   | 59.071   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 219731   | 57.999   | ug/l   | 96       |
| 44) Trichloroethene           | 8.935  | 130  | 127905   | 57.232   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 137405   | 62.549   | ug/l   | 100      |
| 46) Dibromomethane            | 9.301  | 93   | 76480    | 58.186   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.496  | 83   | 185185   | 62.964   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.289  | 41   | 103181   | 59.301   | ug/l   | 91       |
| 49) 1,4-Dioxane               | 9.307  | 88   | 19147    | 1019.953 | ug/l # | 83       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 609443   | 288.678  | ug/l   | 95       |
| 52) Toluene                   | 10.240 | 92   | 312119   | 61.733   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.459 | 75   | 190538   | 61.212   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.923  | 75   | 213947   | 61.083   | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 103574   | 59.503   | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 149375   | 61.856   | ug/l   | 89       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 179352   | 60.839   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 252157   | 278.458  | ug/l   | 92       |
| 59) 2-Hexanone                | 10.831 | 43   | 429497   | 279.869  | ug/l   | 96       |
| 60) Dibromochloromethane      | 10.983 | 129  | 128141   | 60.628   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 102667   | 59.992   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.715 | 164  | 109060   | 55.188   | ug/l   | 94       |
| 65) Chlorobenzene             | 11.514 | 112  | 327504   | 57.850   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 128671   | 60.772   | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.587 | 91   | 606379   | 60.997   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.697 | 106  | 456898   | 120.899  | ug/l   | 97       |
| 69) o-Xylene                  | 12.026 | 106  | 218125   | 61.029   | ug/l   | 97       |
| 70) Styrene                   | 12.038 | 104  | 373650   | 62.524   | ug/l   | 100      |
| 71) Bromoform                 | 12.203 | 173  | 87727    | 59.153   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.325 | 105  | 586695   | 55.914   | ug/l   | 98       |
| 74) N-amyl acetate            | 12.142 | 43   | 202843   | 54.323   | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.575 | 83   | 136472   | 53.211   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 90124m   | 48.171   | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 138424   | 54.445   | ug/l   | 91       |
| 78) n-propylbenzene           | 12.666 | 91   | 730300   | 56.506   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.751 | 91   | 406338   | 56.300   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.806 | 105  | 486995   | 56.864   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.373 | 75   | 47321    | 51.738   | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.849 | 91   | 418130   | 55.584   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 437312   | 58.939   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 486261   | 58.399   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 648562   | 58.242   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 524905   | 58.616   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.361 | 146  | 273742   | 56.514   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.440 | 146  | 270240   | 55.230   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.690 | 91   | 522016   | 59.725   | ug/l   | 98       |
| 90) Hexachloroethane          | 13.959 | 117  | 105673   | 56.068   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 248729   | 56.864   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 22302    | 49.236   | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.001 | 180  | 154877   | 59.388   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 92670    | 61.058   | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 311723   | 55.091   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 135499   | 58.295   | ug/l   | 98       |

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

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