

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY072123\  
 Data File : VY014736.D  
 Acq On : 21 Jul 2023 10:58  
 Operator : SY/MD  
 Sample : VY0721SBS01  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0721SBS01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 07/24/2023  
 Supervised By : Mahesh Dadoda 07/24/2023

Quant Time: Jul 22 05:32:39 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y071323S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 02:09:50 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 250335              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 410840              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 364403              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 187104              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 148494              | 52.054  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 104.100% |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 138612              | 53.000  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 106.000% |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 488781              | 50.692  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = 101.380% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 185882              | 50.277  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = 100.560% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 45505               | 22.312  | ug/l   | 97       |
| 3) Chloromethane             | 2.113          | 50   | 54014               | 23.560  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.247          | 62   | 63732               | 24.874  | ug/l   | 97       |
| 5) Bromomethane              | 2.625          | 94   | 44834               | 26.478  | ug/l   | 95       |
| 6) Chloroethane              | 2.784          | 64   | 40163               | 25.094  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.113          | 101  | 92908               | 21.590  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.534          | 74   | 33808               | 21.115  | ug/l   | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 3.893          | 101  | 55014               | 20.858  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.082          | 142  | 55784               | 21.375  | ug/l   | 96       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 106867              | 173.865 | ug/l # | 95       |
| 12) 1,1-Dichloroethene       | 3.863          | 96   | 50863               | 20.633  | ug/l   | 88       |
| 13) Acrolein                 | 3.729          | 56   | 28335               | 95.033  | ug/l   | 99       |
| 14) Allyl chloride           | 4.473          | 41   | 82881               | 18.935  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.161          | 53   | 99484               | 112.677 | ug/l   | 99       |
| 16) Acetone                  | 3.948          | 43   | 96241               | 106.464 | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.192          | 76   | 141311              | 20.022  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.479          | 43   | 79006               | 22.775  | ug/l   | 92       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 167650              | 20.936  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.710          | 84   | 65864               | 19.885  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 57000               | 20.375  | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.119          | 45   | 173828              | 19.534  | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.058          | 43   | 536626              | 100.768 | ug/l # | 95       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 100813              | 19.799  | ug/l   | 95       |
| 25) 2-Butanone               | 6.984          | 43   | 148898              | 112.588 | ug/l   | 97       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 99552               | 20.514  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 66866               | 20.534  | ug/l   | 97       |
| 28) Bromochloromethane       | 7.332          | 49   | 48992               | 22.341  | ug/l   | 92       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 91346               | 112.172 | ug/l   | 90       |
| 30) Chloroform               | 7.509          | 83   | 106507              | 20.284  | ug/l   | 94       |
| 31) Cyclohexane              | 7.783          | 56   | 90392               | 19.088  | ug/l   | 86       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 97068               | 20.540  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 79122               | 20.230  | ug/l   | 100      |
| 37) Ethyl Acetate            | 7.076          | 43   | 61226               | 22.737  | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 86315               | 20.877  | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.185          | 83   | 101759              | 19.971  | ug/l   | 92       |
| 40) Benzene                  | 8.161          | 78   | 226705              | 20.381  | ug/l   | 99       |

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 ALS Vial : 6 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Fri Jul 14 02:09:50 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 29423m   | 21.243  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 74242    | 21.077  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 108813   | 21.213  | ug/l   | 96       |
| 44) Trichloroethene           | 8.941  | 130  | 65120    | 20.924  | ug/l   | 100      |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 58446    | 20.122  | ug/l   | 98       |
| 46) Dibromomethane            | 9.301  | 93   | 38034    | 21.585  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.496  | 83   | 86368    | 20.797  | ug/l   | 100      |
| 48) Methyl methacrylate       | 9.289  | 41   | 49886    | 21.613  | ug/l   | 94       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 13645    | 474.907 | ug/l # | 64       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 300635   | 111.626 | ug/l   | 93       |
| 52) Toluene                   | 10.246 | 92   | 148283   | 20.833  | ug/l   | 93       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 91042    | 20.041  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 100305   | 20.305  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 52371    | 21.337  | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 79093    | 21.105  | ug/l   | 90       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 90068    | 21.275  | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 196915   | 112.770 | ug/l   | 93       |
| 59) 2-Hexanone                | 10.831 | 43   | 221966   | 113.015 | ug/l   | 91       |
| 60) Dibromochloromethane      | 10.984 | 129  | 64145    | 21.315  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 53066    | 21.672  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.721 | 164  | 63358    | 21.618  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.514 | 112  | 160680   | 20.692  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 61237    | 20.915  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 286249   | 20.417  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.703 | 106  | 219826   | 41.074  | ug/l   | 97       |
| 69) o-Xylene                  | 12.026 | 106  | 108513   | 20.817  | ug/l   | 96       |
| 70) Styrene                   | 12.044 | 104  | 184230   | 20.969  | ug/l   | 97       |
| 71) Bromoform                 | 12.209 | 173  | 43522    | 21.930  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 286458   | 19.553  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 98931    | 20.163  | ug/l   | 93       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 69545    | 20.816  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 52878m   | 22.377  | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 68961    | 20.621  | ug/l   | 97       |
| 78) n-propylbenzene           | 12.672 | 91   | 341533   | 19.346  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 195593   | 19.236  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 240203   | 19.632  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 24450    | 20.033  | ug/l   | 96       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 203119   | 19.396  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 209641   | 19.316  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 238664   | 19.876  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 315106   | 19.792  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 259659   | 19.975  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 132852   | 20.412  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 133783   | 20.512  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.696 | 91   | 245421   | 19.406  | ug/l   | 96       |
| 90) Hexachloroethane          | 13.959 | 117  | 50426    | 18.886  | ug/l   | 91       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 123090   | 20.642  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 13211    | 20.677  | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 76765    | 20.279  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 41743    | 20.067  | ug/l   | 97       |
| 95) Naphthalene               | 15.233 | 128  | 185517   | 21.036  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 68423    | 20.338  | ug/l   | 98       |

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Quant Title : SW846 8260  
QLast Update : Fri Jul 14 02:09:50 2023  
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

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