

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY040722\  
 Data File : VY008244.D  
 Acq On : 07 Apr 2022 14:06  
 Operator : SY/MD  
 Sample : VY0407SBS02  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0407SBS02

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 04/08/2022  
 Supervised By : Mahesh Dadoda 04/08/2022

Quant Time: Apr 08 02:34:45 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y032522S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 26 03:24:51 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 128228     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 226567     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.496         | 117  | 217363     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 104701     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 61876      | 48.096  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 96.200% |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 63136      | 44.446  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 88.900% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 220626     | 41.225  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 82.440% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 81711      | 43.276  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 86.560% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 22957      | 19.860  | ug/l   | 98       |
| 3) Chloromethane             | 2.113          | 50   | 29955      | 21.281  | ug/l   | 92       |
| 4) Vinyl Chloride            | 2.253          | 62   | 40142      | 21.434  | ug/l   | 98       |
| 5) Bromomethane              | 2.644          | 94   | 34613      | 22.551  | ug/l   | 98       |
| 6) Chloroethane              | 2.796          | 64   | 27547      | 22.360  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.125          | 101  | 46691      | 19.708  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.528          | 74   | 15918      | 20.748  | ug/l   | 77       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 28895      | 19.662  | ug/l   | 95       |
| 10) Methyl Iodide            | 4.095          | 142  | 29901      | 18.526  | ug/l   | 90       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 13315      | 99.753  | ug/l # | 90       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 26465      | 19.453  | ug/l # | 79       |
| 13) Acrolein                 | 3.729          | 56   | 8338       | 76.746  | ug/l   | 97       |
| 14) Allyl chloride           | 4.485          | 41   | 34726      | 19.400  | ug/l # | 90       |
| 15) Acrylonitrile            | 5.161          | 53   | 39801      | 108.911 | ug/l   | 97       |
| 16) Acetone                  | 3.942          | 43   | 30820      | 104.809 | ug/l # | 86       |
| 17) Carbon Disulfide         | 4.198          | 76   | 73169      | 18.980  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.473          | 43   | 17971      | 18.702  | ug/l # | 81       |
| 19) Methyl tert-butyl Ether  | 5.222          | 73   | 78501      | 20.304  | ug/l   | 93       |
| 20) Methylene Chloride       | 4.710          | 84   | 34809      | 20.491  | ug/l # | 78       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 31744      | 20.151  | ug/l # | 81       |
| 22) Diisopropyl ether        | 6.119          | 45   | 80529      | 20.911  | ug/l # | 92       |
| 23) Vinyl Acetate            | 6.058          | 43   | 260033     | 108.972 | ug/l # | 85       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 52147      | 20.454  | ug/l   | 98       |
| 25) 2-Butanone               | 6.984          | 43   | 47791      | 106.797 | ug/l # | 75       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 47798      | 19.796  | ug/l   | 93       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 36606      | 20.047  | ug/l   | 81       |
| 28) Bromochloromethane       | 7.338          | 49   | 18225      | 22.495  | ug/l # | 74       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 30806      | 105.888 | ug/l # | 73       |
| 30) Chloroform               | 7.502          | 83   | 56259      | 20.379  | ug/l   | 97       |
| 31) Cyclohexane              | 7.783          | 56   | 46483      | 19.329  | ug/l # | 75       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 50383      | 19.752  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 43247      | 19.381  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.076          | 43   | 21794      | 20.908  | ug/l # | 91       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 43618      | 17.937  | ug/l   | 95       |
| 39) Methylcyclohexane        | 9.179          | 83   | 55050      | 18.278  | ug/l # | 84       |
| 40) Benzene                  | 8.161          | 78   | 124327     | 19.479  | ug/l   | 98       |

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 Quant Title : SW846 8260  
 QLast Update : Sat Mar 26 03:24:51 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.307  | 41   | 10858m   | 20.745  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 35088    | 19.597  | ug/l   | 89       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 39369    | 19.239  | ug/l # | 85       |
| 44) Trichloroethene           | 8.941  | 130  | 33903    | 18.369  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 29404    | 19.547  | ug/l   | 98       |
| 46) Dibromomethane            | 9.307  | 93   | 19739    | 19.957  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.496  | 83   | 43906    | 19.413  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.295  | 41   | 17151    | 18.924  | ug/l # | 77       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 5370     | 408.406 | ug/l # | 74       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 103344   | 100.133 | ug/l # | 83       |
| 52) Toluene                   | 10.246 | 92   | 80937    | 19.336  | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 44154    | 19.045  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 50713    | 19.323  | ug/l # | 79       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 27924    | 20.446  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.514 | 69   | 34385    | 19.301  | ug/l # | 74       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 45321    | 20.275  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 69774    | 94.527  | ug/l   | 90       |
| 59) 2-Hexanone                | 10.837 | 43   | 71724    | 99.315  | ug/l   | 81       |
| 60) Dibromochloromethane      | 10.990 | 129  | 32078    | 19.312  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.093 | 107  | 27238    | 20.025  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 29738    | 17.813  | ug/l   | 99       |
| 65) Chlorobenzene             | 11.520 | 112  | 89475    | 18.256  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 32902    | 18.200  | ug/l   | 95       |
| 67) Ethyl Benzene             | 11.593 | 91   | 155348   | 18.085  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.709 | 106  | 123125   | 36.047  | ug/l   | 91       |
| 69) o-Xylene                  | 12.032 | 106  | 57875    | 17.696  | ug/l   | 92       |
| 70) Styrene                   | 12.044 | 104  | 97226    | 18.160  | ug/l   | 94       |
| 71) Bromoform                 | 12.209 | 173  | 19028    | 17.433  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 153614   | 17.775  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.148 | 43   | 34082    | 17.940  | ug/l # | 81       |
| 75) 1,1,2,2-Tetrachloroethane | 12.587 | 83   | 32027    | 19.066  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.636 | 75   | 22096m   | 17.312  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 36308    | 18.313  | ug/l   | 93       |
| 78) n-propylbenzene           | 12.672 | 91   | 185355   | 18.183  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 102641   | 18.151  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.819 | 105  | 125289   | 17.697  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 10208    | 17.845  | ug/l # | 84       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 106020   | 18.272  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.081 | 119  | 113698   | 18.026  | ug/l   | 92       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105  | 123182   | 17.867  | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.258 | 105  | 170124   | 18.273  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.373 | 119  | 139960   | 18.063  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 70368    | 17.902  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.453 | 146  | 71783    | 18.312  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.703 | 91   | 128910   | 18.083  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.965 | 117  | 25370    | 16.899  | ug/l   | 81       |
| 91) 1,2-Dichlorobenzene       | 13.745 | 146  | 64264    | 18.569  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.361 | 75   | 4620     | 17.232  | ug/l   | 77       |
| 93) 1,2,4-Trichlorobenzene    | 15.013 | 180  | 36036    | 17.386  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.117 | 225  | 18385    | 16.767  | ug/l   | 97       |
| 95) Naphthalene               | 15.239 | 128  | 77673    | 16.953  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.428 | 180  | 31245    | 17.422  | ug/l   | 98       |

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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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