

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY032122\  
 Data File : VY007970.D  
 Acq On : 21 Mar 2022 22:23  
 Operator : SY/MD  
 Sample : VY0321SBS02  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0321SBS02

Quant Time: Mar 22 03:42:54 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y031722S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 17 13:55:34 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 03/22/2022  
 Supervised By : Mahesh Dadoda 03/22/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 208512              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 379908              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.489         | 117  | 341142              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 159532              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.136          | 65   | 124830              | 52.506  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 105.020% |         |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 124496              | 46.661  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 93.320%  |         |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 419065              | 52.307  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 104.620% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 162271              | 42.378  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 84.760%  |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 32826               | 21.442  | ug/l   | 96       |
| 3) Chloromethane             | 2.113          | 50   | 50547               | 27.412  | ug/l   | 95       |
| 4) Vinyl Chloride            | 2.247          | 62   | 63433               | 28.426  | ug/l   | 99       |
| 5) Bromomethane              | 2.637          | 94   | 51385               | 35.014  | ug/l   | 99       |
| 6) Chloroethane              | 2.784          | 64   | 44406               | 26.042  | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 85230               | 22.294  | ug/l # | 83       |
| 8) Diethyl Ether             | 3.521          | 74   | 32606               | 22.981  | ug/l   | 81       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 55574               | 22.506  | ug/l   | 89       |
| 10) Methyl Iodide            | 4.088          | 142  | 45108               | 19.762  | ug/l   | 91       |
| 11) Tert butyl alcohol       | 4.954          | 59   | 34095               | 123.102 | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 49705               | 21.953  | ug/l   | 87       |
| 13) Acrolein                 | 3.729          | 56   | 19801               | 118.699 | ug/l   | 98       |
| 14) Allyl chloride           | 4.472          | 41   | 86380               | 22.682  | ug/l   | 94       |
| 15) Acrylonitrile            | 5.161          | 53   | 91961               | 121.619 | ug/l   | 97       |
| 16) Acetone                  | 3.942          | 43   | 65738               | 104.231 | ug/l # | 89       |
| 17) Carbon Disulfide         | 4.186          | 76   | 120816              | 25.322  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.472          | 43   | 46537               | 28.519  | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 166553              | 23.451  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.710          | 84   | 70335               | 26.585  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 57029               | 22.499  | ug/l   | 86       |
| 22) Diisopropyl ether        | 6.118          | 45   | 196329              | 23.963  | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.058          | 43   | 620257              | 120.870 | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.009          | 63   | 109908              | 23.816  | ug/l   | 99       |
| 25) 2-Butanone               | 6.984          | 43   | 115390              | 114.222 | ug/l # | 87       |
| 26) 2,2-Dichloropropane      | 6.978          | 77   | 90440               | 21.145  | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 6.984          | 96   | 71272               | 23.426  | ug/l   | 88       |
| 28) Bromochloromethane       | 7.332          | 49   | 42602               | 23.372  | ug/l   | 94       |
| 29) Tetrahydrofuran          | 7.344          | 42   | 78669               | 121.534 | ug/l   | 89       |
| 30) Chloroform               | 7.502          | 83   | 113854              | 23.869  | ug/l   | 98       |
| 31) Cyclohexane              | 7.777          | 56   | 96874               | 25.689  | ug/l   | 96       |
| 32) 1,1,1-Trichloroethane    | 7.697          | 97   | 98950               | 23.032  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 81906               | 20.698  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.070          | 43   | 51684               | 21.405  | ug/l # | 93       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 84903               | 20.078  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.179          | 83   | 103773              | 21.872  | ug/l   | 90       |
| 40) Benzene                  | 8.155          | 78   | 240831              | 20.826  | ug/l   | 97       |

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 ALS Vial : 33 Sample Multiplier: 1

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 MSVOA\_Y  
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Quant Time: Mar 22 03:42:54 2022  
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 Quant Title : SW846 8260  
 QLast Update : Thu Mar 17 13:55:34 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 03/22/2022  
 Supervised By : Mahesh Dadoda 03/22/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.301  | 41   | 24494m   | 16.449  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 74083    | 22.126  | ug/l   | 92       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 100086   | 21.500  | ug/l # | 93       |
| 44) Trichloroethene           | 8.935  | 130  | 62991    | 19.699  | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.215  | 63   | 63297    | 21.139  | ug/l   | 97       |
| 46) Dibromomethane            | 9.307  | 93   | 38015    | 21.702  | ug/l   | 90       |
| 47) Bromodichloromethane      | 9.496  | 83   | 90633    | 21.418  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.289  | 41   | 42746    | 20.643  | ug/l # | 87       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 10872    | 438.253 | ug/l # | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 267052   | 108.886 | ug/l   | 91       |
| 52) Toluene                   | 10.240 | 92   | 155812   | 20.981  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 91229    | 20.209  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 103221   | 20.504  | ug/l # | 88       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 53510    | 21.027  | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 74890    | 20.499  | ug/l # | 84       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 90639    | 21.358  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.782  | 63   | 182526   | 101.843 | ug/l   | 97       |
| 59) 2-Hexanone                | 10.831 | 43   | 182033   | 103.789 | ug/l   | 87       |
| 60) Dibromochloromethane      | 10.983 | 129  | 60280    | 19.777  | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 50717    | 20.600  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.715 | 164  | 50571    | 19.050  | ug/l   | 93       |
| 65) Chlorobenzene             | 11.514 | 112  | 167011   | 20.437  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.593 | 131  | 61879    | 20.111  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.593 | 91   | 303165   | 20.826  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.703 | 106  | 231082   | 40.695  | ug/l   | 95       |
| 69) o-Xylene                  | 12.026 | 106  | 112338   | 20.452  | ug/l   | 94       |
| 70) Styrene                   | 12.044 | 104  | 190307   | 20.608  | ug/l   | 96       |
| 71) Bromoform                 | 12.209 | 173  | 35256    | 17.890  | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.331 | 105  | 300114   | 21.372  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 88480    | 21.357  | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 66766    | 22.088  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 48427m   | 21.297  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 63888    | 19.910  | ug/l   | 92       |
| 78) n-propylbenzene           | 12.672 | 91   | 362363   | 21.370  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 203319   | 21.312  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 244223   | 21.149  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 21431    | 19.796  | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 210313   | 21.221  | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 216847   | 20.984  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 239804   | 21.184  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 328634   | 21.220  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 260488   | 20.718  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 128481   | 20.501  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 130631   | 20.797  | ug/l   | 96       |
| 89) n-Butylbenzene            | 13.696 | 91   | 255811   | 21.201  | ug/l   | 98       |
| 90) Hexachloroethane          | 13.959 | 117  | 51094    | 20.360  | ug/l   | 76       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 117580   | 20.858  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 10861    | 20.886  | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 63972    | 17.952  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 32667    | 17.183  | ug/l   | 98       |
| 95) Naphthalene               | 15.239 | 128  | 158471   | 19.932  | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 57509    | 18.298  | ug/l   | 98       |

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ALS Vial : 33 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0321SBS02

Manual Integrations  
APPROVED

Reviewed By :John Carlone 03/22/2022  
Supervised By :Mahesh Dadoda 03/22/2022

Quant Time: Mar 22 03:42:54 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y031722S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 17 13:55:34 2022  
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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

