

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022122\  
 Data File : VY007569.D  
 Acq On : 21 Feb 2022 16:19  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY022122

Quant Time: Feb 22 13:34:20 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 21 15:25:36 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :John  
 Carlone  
 02/22/2022

Supervised By :Mahesh  
 Dadoda  
 02/22/2022

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.789          | 168  | 106405     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.691          | 114  | 164190     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 143122     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.428         | 152  | 68452      | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.143          | 65   | 46156      | 41.882  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 83.760% |        |          |
| 35) Dibromofluoromethane     | 7.722          | 113  | 44096      | 42.355  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 84.720% |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 144649     | 40.071  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 80.140% |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 51160      | 39.142  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 78.280% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.906          | 85   | 61241      | 46.418  | ug/l   | 96       |
| 3) Chloromethane             | 2.113          | 50   | 46013      | 41.997  | ug/l   | 93       |
| 4) Vinyl Chloride            | 2.253          | 62   | 48031      | 41.867  | ug/l   | 98       |
| 5) Bromomethane              | 2.656          | 94   | 37457      | 44.203  | ug/l   | 96       |
| 6) Chloroethane              | 2.796          | 64   | 30215      | 42.419  | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.131          | 101  | 123139     | 49.072  | ug/l   | 93       |
| 8) Diethyl Ether             | 3.534          | 74   | 27057      | 42.373  | ug/l   | 63       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 58175      | 47.176  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.095          | 142  | 68983      | 46.856  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 4.948          | 59   | 20447      | 210.475 | ug/l # | 90       |
| 12) 1,1-Dichloroethene       | 3.875          | 96   | 50882      | 46.003  | ug/l   | 81       |
| 13) Acrolein                 | 3.735          | 56   | 10679      | 149.057 | ug/l   | 99       |
| 14) Allyl chloride           | 4.479          | 41   | 49287      | 41.352  | ug/l # | 67       |
| 15) Acrylonitrile            | 5.167          | 53   | 49495      | 202.363 | ug/l   | 97       |
| 16) Acetone                  | 3.948          | 43   | 59662      | 229.468 | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.198          | 76   | 125303     | 43.097  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.485          | 43   | 20445      | 40.291  | ug/l # | 72       |
| 19) Methyl tert-butyl Ether  | 5.228          | 73   | 130643     | 42.244  | ug/l # | 89       |
| 20) Methylene Chloride       | 4.716          | 84   | 50856      | 45.994  | ug/l # | 82       |
| 21) trans-1,2-Dichloroethene | 5.222          | 96   | 50476      | 43.905  | ug/l # | 81       |
| 22) Diisopropyl ether        | 6.119          | 45   | 92706      | 43.253  | ug/l # | 85       |
| 23) Vinyl Acetate            | 6.058          | 43   | 337441     | 206.966 | ug/l # | 84       |
| 24) 1,1-Dichloroethane       | 6.021          | 63   | 80162      | 44.519  | ug/l   | 97       |
| 25) 2-Butanone               | 6.984          | 43   | 60946      | 205.897 | ug/l # | 71       |
| 26) 2,2-Dichloropropane      | 6.984          | 77   | 91262      | 45.865  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 6.990          | 96   | 56267      | 43.111  | ug/l   | 82       |
| 28) Bromochloromethane       | 7.338          | 49   | 24465      | 40.192  | ug/l # | 47       |
| 29) Tetrahydrofuran          | 7.350          | 42   | 33318      | 195.395 | ug/l # | 63       |
| 30) Chloroform               | 7.509          | 83   | 99447      | 44.902  | ug/l   | 98       |
| 31) Cyclohexane              | 7.783          | 56   | 62592      | 46.534  | ug/l # | 74       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 102806     | 47.039  | ug/l   | 93       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 67905      | 44.634  | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.076          | 43   | 25734      | 41.456  | ug/l # | 91       |
| 38) Carbon Tetrachloride     | 7.905          | 117  | 96912      | 47.301  | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.185          | 83   | 86483      | 45.014  | ug/l # | 81       |
| 40) Benzene                  | 8.161          | 78   | 180143     | 44.198  | ug/l   | 94       |

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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.320  | 41   | 14966m   | 44.998  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.240  | 62   | 62682    | 44.036  | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.277  | 43   | 53145    | 41.232  | ug/l # | 83       |
| 44) Trichloroethene           | 8.941  | 130  | 60824    | 46.209  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 39845    | 42.557  | ug/l   | 97       |
| 46) Dibromomethane            | 9.307  | 93   | 30597    | 44.018  | ug/l   | 98       |
| 47) Bromodichloromethane      | 9.496  | 83   | 77016    | 46.684  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.289  | 41   | 22745    | 41.023  | ug/l # | 64       |
| 49) 1,4-Dioxane               | 9.295  | 88   | 6476     | 824.058 | ug/l # | 75       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 133834   | 210.863 | ug/l   | 88       |
| 52) Toluene                   | 10.246 | 92   | 121221   | 43.396  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 73084    | 43.456  | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 77912    | 43.146  | ug/l # | 89       |
| 55) 1,1,2-Trichloroethane     | 10.648 | 97   | 38876    | 42.254  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 47421    | 41.921  | ug/l # | 80       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 63693    | 42.929  | ug/l   | 97       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 118687   | 214.550 | ug/l # | 81       |
| 59) 2-Hexanone                | 10.831 | 43   | 94886    | 207.409 | ug/l   | 86       |
| 60) Dibromochloromethane      | 10.984 | 129  | 57007    | 45.215  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 40987    | 44.315  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 53796    | 46.731  | ug/l   | 91       |
| 65) Chlorobenzene             | 11.514 | 112  | 138503   | 46.410  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 56273    | 46.700  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.593 | 91   | 253619   | 47.698  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.703 | 106  | 191291   | 94.489  | ug/l   | 100      |
| 69) o-Xylene                  | 12.026 | 106  | 91306    | 47.294  | ug/l   | 100      |
| 70) Styrene                   | 12.044 | 104  | 151968   | 47.261  | ug/l   | 99       |
| 71) Bromoform                 | 12.209 | 173  | 34615    | 46.474  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.331 | 105  | 257604   | 47.543  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.142 | 43   | 46468    | 44.218  | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 40989    | 43.711  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 31995m   | 39.931  | ug/l   |          |
| 77) Bromobenzene              | 12.611 | 156  | 57656    | 45.332  | ug/l   | 86       |
| 78) n-propylbenzene           | 12.672 | 91   | 299973   | 47.494  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 162264   | 45.888  | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105  | 219148   | 48.247  | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 13962    | 42.704  | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 169251   | 46.452  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 195553   | 48.353  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 212345   | 47.566  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.251 | 105  | 281776   | 48.252  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 240447   | 48.893  | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 114629   | 47.502  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.446 | 146  | 114183   | 47.499  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.696 | 91   | 219827   | 48.942  | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 48229    | 49.526  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 100995   | 46.788  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 8104     | 46.375  | ug/l   | 78       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 69355    | 48.881  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 44924    | 52.511  | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 137454   | 46.505  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 61294    | 48.736  | ug/l   | 97       |

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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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