

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101722\  
 Data File : VY010966.D  
 Acq On : 17 Oct 2022 11:25  
 Operator : KP/MD  
 Sample : VSTDICC005  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 10/18/2022  
 Supervised By :Mahesh Dadoda 10/19/2022

Quant Time: Oct 18 01:13:10 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101722S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 18 01:10:36 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.783          | 168  | 282384     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.685          | 114  | 463961     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.490         | 117  | 414907     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.422         | 152  | 200076     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.137          | 65   | 14548      | 5.593    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 11.180%# |        |          |
| 35) Dibromofluoromethane     | 7.716          | 113  | 14438      | 5.118    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 10.240%# |        |          |
| 50) Toluene-d8               | 10.179         | 98   | 56135      | 5.795    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 11.580%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.483         | 95   | 18303      | 4.723    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 9.440%#  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.900          | 85   | 10937      | 5.839    | ug/l   | 93       |
| 3) Chloromethane             | 2.113          | 50   | 16116      | 5.997    | ug/l   | 91       |
| 4) Vinyl Chloride            | 2.247          | 62   | 16792      | 5.513    | ug/l   | 100      |
| 5) Bromomethane              | 2.644          | 94   | 13311      | 6.319    | ug/l   | 96       |
| 6) Chloroethane              | 2.790          | 64   | 11116      | 5.461    | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.119          | 101  | 24260      | 5.442    | ug/l   | 96       |
| 8) Diethyl Ether             | 3.522          | 74   | 8893       | 5.346    | ug/l   | 88       |
| 9) 1,1,2-Trichlorotrifluo... | 3.899          | 101  | 15216      | 5.441    | ug/l   | 93       |
| 10) Methyl Iodide            | 4.082          | 142  | 16884      | 4.934    | ug/l   | 91       |
| 11) Tert butyl alcohol       | 4.942          | 59   | 13111      | 37.291   | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 3.869          | 96   | 14527      | 5.423    | ug/l   | 79       |
| 13) Acrolein                 | 3.723          | 56   | 10656      | 25.411   | ug/l   | 98       |
| 14) Allyl chloride           | 4.473          | 41   | 22308      | 5.251    | ug/l # | 88       |
| 15) Acrylonitrile            | 5.161          | 53   | 22353      | 25.777   | ug/l   | 100      |
| 16) Acetone                  | 3.942          | 43   | 21123      | 27.964   | ug/l # | 84       |
| 17) Carbon Disulfide         | 4.192          | 76   | 46659      | 5.941    | ug/l   | 97       |
| 18) Methyl Acetate           | 4.473          | 43   | 17767      | 7.345    | ug/l # | 89       |
| 19) Methyl tert-butyl Ether  | 5.216          | 73   | 37762      | 5.045    | ug/l   | 96       |
| 20) Methylene Chloride       | 4.710          | 84   | 38398      | 8.930    | ug/l   | 85       |
| 21) trans-1,2-Dichloroethene | 5.216          | 96   | 16449      | 5.439    | ug/l   | 91       |
| 22) Diisopropyl ether        | 6.119          | 45   | 45107      | 4.958    | ug/l   | 92       |
| 23) Vinyl Acetate            | 6.058          | 43   | 118572     | 21.795   | ug/l # | 90       |
| 24) 1,1-Dichloroethane       | 6.015          | 63   | 28815      | 5.246    | ug/l # | 92       |
| 25) 2-Butanone               | 6.984          | 43   | 31077      | 27.129   | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 6.972          | 77   | 26950      | 5.525    | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 6.978          | 96   | 18061      | 5.182    | ug/l   | 93       |
| 28) Bromochloromethane       | 7.338          | 49   | 9018       | 5.267    | ug/l   | 87       |
| 29) Tetrahydrofuran          | 7.338          | 42   | 17649      | 25.041   | ug/l # | 85       |
| 30) Chloroform               | 7.502          | 83   | 28824      | 5.206    | ug/l   | 98       |
| 31) Cyclohexane              | 7.783          | 56   | 30036      | 6.034    | ug/l # | 75       |
| 32) 1,1,1-Trichloroethane    | 7.704          | 97   | 25411      | 5.221    | ug/l   | 96       |
| 36) 1,1-Dichloropropene      | 7.917          | 75   | 23344      | 5.405    | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.070          | 43   | 12067      | 5.046    | ug/l # | 91       |
| 38) Carbon Tetrachloride     | 7.899          | 117  | 23673      | 5.310    | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.179          | 83   | 27203      | 5.259    | ug/l   | 92       |
| 40) Benzene                  | 8.155          | 78   | 68782      | 5.428    | ug/l   | 94       |

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 Sample : VSTDICC005  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC005

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 10/18/2022  
 Supervised By :Mahesh Dadoda 10/19/2022

Quant Time: Oct 18 01:13:10 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y101722S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 18 01:10:36 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.314  | 41   | 6357m    | 4.796   | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.234  | 62   | 18842    | 5.366   | ug/l   | 93       |
| 43) Isopropyl Acetate         | 8.271  | 43   | 20886    | 4.889   | ug/l # | 88       |
| 44) Trichloroethene           | 8.935  | 130  | 18604    | 5.417   | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.216  | 63   | 17031    | 5.297   | ug/l   | 99       |
| 46) Dibromomethane            | 9.307  | 93   | 9472     | 5.282   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.490  | 83   | 22302    | 5.161   | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.289  | 41   | 9133     | 4.777   | ug/l # | 80       |
| 49) 1,4-Dioxane               | 9.301  | 88   | 2635     | 102.265 | ug/l # | 89       |
| 51) 4-Methyl-2-Pentanone      | 10.069 | 43   | 58989    | 24.758  | ug/l   | 92       |
| 52) Toluene                   | 10.240 | 92   | 40332    | 5.123   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.465 | 75   | 22239    | 4.953   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 9.929  | 75   | 26106    | 5.081   | ug/l # | 81       |
| 55) 1,1,2-Trichloroethane     | 10.642 | 97   | 13422    | 5.188   | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.508 | 69   | 15864    | 4.617   | ug/l # | 77       |
| 57) 1,3-Dichloropropane       | 10.788 | 76   | 23559    | 5.296   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.783  | 63   | 39560    | 25.977  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.831 | 43   | 38495    | 23.520  | ug/l   | 86       |
| 60) Dibromochloromethane      | 10.984 | 129  | 15578    | 5.064   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.087 | 107  | 13094    | 5.285   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.721 | 164  | 17957    | 5.560   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.514 | 112  | 45336    | 5.322   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.587 | 131  | 16238    | 5.150   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.593 | 91   | 75879    | 5.035   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.703 | 106  | 58020    | 10.008  | ug/l   | 94       |
| 69) o-Xylene                  | 12.026 | 106  | 27339    | 4.967   | ug/l   | 94       |
| 70) Styrene                   | 12.044 | 104  | 45055    | 4.830   | ug/l   | 96       |
| 71) Bromoform                 | 12.209 | 173  | 9856     | 5.065   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.331 | 105  | 71296    | 4.905   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.142 | 43   | 17295    | 4.689   | ug/l # | 88       |
| 75) 1,1,2,2-Tetrachloroethane | 12.581 | 83   | 16099    | 5.277   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.630 | 75   | 11802m   | 5.092   | ug/l   |          |
| 77) Bromobenzene              | 12.605 | 156  | 17415    | 5.125   | ug/l   | 99       |
| 78) n-propylbenzene           | 12.672 | 91   | 87792    | 4.964   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.758 | 91   | 51216    | 5.142   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.813 | 105  | 59930    | 4.941   | ug/l   | 98       |
| 81) trans-1,4-Dichloro-2-b... | 12.380 | 75   | 5183     | 4.907   | ug/l # | 85       |
| 82) 4-Chlorotoluene           | 12.855 | 91   | 53241    | 5.134   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.075 | 119  | 50361    | 4.802   | ug/l   | 93       |
| 84) 1,2,4-Trimethylbenzene    | 13.117 | 105  | 57586    | 4.815   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.251 | 105  | 77508    | 4.918   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.367 | 119  | 63628    | 4.867   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.367 | 146  | 36339    | 5.359   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.447 | 146  | 36742    | 5.449   | ug/l   | 95       |
| 89) n-Butylbenzene            | 13.697 | 91   | 59152    | 4.842   | ug/l   | 99       |
| 90) Hexachloroethane          | 13.959 | 117  | 13230    | 5.128   | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.739 | 146  | 32387    | 5.338   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.355 | 75   | 2762     | 5.476   | ug/l   | 93       |
| 93) 1,2,4-Trichlorobenzene    | 15.007 | 180  | 17902    | 4.937   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.111 | 225  | 11290    | 5.290   | ug/l   | 99       |
| 95) Naphthalene               | 15.233 | 128  | 32385    | 4.386   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.422 | 180  | 15119    | 4.779   | ug/l   | 99       |

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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC005

Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 10/18/2022  
Supervised By :Mahesh Dadoda 10/19/2022

Quant Time: Oct 18 01:13:10 2022  
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Quant Title : SW846 8260  
QLast Update : Tue Oct 18 01:10:36 2022  
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

## Manual Integrations

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