

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120823\  
 Data File : VD077783.D  
 Acq On : 08 Dec 2023 10:08  
 Operator : JC/SY  
 Sample : VSTDICC010  
 Misc : 5.00G/5.0ml/MSVOA\_D/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC010

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/11/2023  
 Supervised By :Mahesh Dadoda 12/11/2023

Quant Time: Dec 08 13:40:14 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D120823S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 08 13:33:18 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.881          | 168  | 136452     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.781          | 114  | 241457     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.587         | 117  | 215660     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.522         | 152  | 107582     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.234          | 65   | 17353      | 10.792   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 21.580%# |        |          |
| 35) Dibromofluoromethane     | 7.810          | 113  | 16869      | 9.974    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 19.940%# |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 65831      | 9.718    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 19.440%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 19113      | 9.437    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 18.880%# |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.934          | 85   | 17475      | 10.252   | ug/l   | 91       |
| 3) Chloromethane             | 2.152          | 50   | 24513      | 10.551   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.287          | 62   | 32326      | 10.249   | ug/l   | 96       |
| 5) Bromomethane              | 2.693          | 94   | 17978      | 10.158   | ug/l   | 94       |
| 6) Chloroethane              | 2.846          | 64   | 22869      | 10.635   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.187          | 101  | 29108      | 10.020   | ug/l   | 91       |
| 8) Diethyl Ether             | 3.599          | 74   | 8211       | 10.066   | ug/l   | 93       |
| 9) 1,1,2-Trichlorotrifluo... | 3.975          | 101  | 16559      | 9.964    | ug/l   | 96       |
| 10) Methyl Iodide            | 4.169          | 142  | 7126       | 10.974   | ug/l # | 86       |
| 11) Tert butyl alcohol       | 5.046          | 59   | 5055       | 56.563   | ug/l # | 82       |
| 12) 1,1-Dichloroethene       | 3.952          | 96   | 15934      | 9.715    | ug/l # | 81       |
| 13) Acrolein                 | 3.805          | 56   | 9845       | 57.883   | ug/l   | 96       |
| 14) Allyl chloride           | 4.569          | 41   | 22458      | 9.956    | ug/l   | 88       |
| 15) Acrylonitrile            | 5.258          | 53   | 17391      | 49.796   | ug/l   | 96       |
| 16) Acetone                  | 4.022          | 43   | 26806      | 52.172   | ug/l # | 82       |
| 17) Carbon Disulfide         | 4.275          | 76   | 57192      | 10.307   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.569          | 43   | 12826      | 10.129   | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.322          | 73   | 33096      | 9.511    | ug/l # | 88       |
| 20) Methylene Chloride       | 4.805          | 84   | 26217      | 9.881    | ug/l   | 86       |
| 21) trans-1,2-Dichloroethene | 5.316          | 96   | 18796      | 10.117   | ug/l # | 88       |
| 22) Diisopropyl ether        | 6.222          | 45   | 45636      | 9.681    | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.158          | 43   | 111861     | 48.591   | ug/l # | 92       |
| 24) 1,1-Dichloroethane       | 6.116          | 63   | 32368      | 10.139   | ug/l   | 97       |
| 25) 2-Butanone               | 7.075          | 43   | 29946      | 56.106   | ug/l # | 72       |
| 26) 2,2-Dichloropropane      | 7.081          | 77   | 25952      | 9.682    | ug/l   | 95       |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 19673      | 9.841    | ug/l   | 85       |
| 28) Bromochloromethane       | 7.428          | 49   | 12979      | 10.061   | ug/l   | 81       |
| 29) Tetrahydrofuran          | 7.446          | 42   | 12673      | 49.496   | ug/l # | 87       |
| 30) Chloroform               | 7.599          | 83   | 32349      | 10.125   | ug/l   | 93       |
| 31) Cyclohexane              | 7.881          | 56   | 28818      | 10.076   | ug/l   | 88       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 27421      | 9.736    | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.016          | 75   | 26707      | 9.872    | ug/l   | 92       |
| 37) Ethyl Acetate            | 7.175          | 43   | 8885       | 8.423    | ug/l # | 91       |
| 38) Carbon Tetrachloride     | 7.987          | 117  | 25234      | 9.356    | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.275          | 83   | 29964      | 9.343    | ug/l # | 91       |
| 40) Benzene                  | 8.257          | 78   | 75279      | 9.804    | ug/l   | 98       |

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 ALS Vial : 4 Sample Multiplier: 1

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 Quant Title : SW846 8260  
 QLast Update : Fri Dec 08 13:33:18 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.405  | 41   | 4960     | 9.251   | ug/l # | 80       |
| 42) 1,2-Dichloroethane        | 8.328  | 62   | 18793    | 9.442   | ug/l   | 96       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 17634    | 9.404   | ug/l # | 77       |
| 44) Trichloroethene           | 9.028  | 130  | 19398    | 9.694   | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 16810    | 9.006   | ug/l   | 94       |
| 46) Dibromomethane            | 9.399  | 93   | 9671     | 9.792   | ug/l   | 90       |
| 47) Bromodichloromethane      | 9.587  | 83   | 24490    | 9.783   | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.381  | 41   | 10578    | 9.924   | ug/l # | 78       |
| 49) 1,4-Dioxane               | 9.393  | 88   | 2084     | 212.502 | ug/l # | 77       |
| 51) 4-Methyl-2-Pentanone      | 10.163 | 43   | 44509    | 46.508  | ug/l   | 88       |
| 52) Toluene                   | 10.334 | 92   | 43381    | 9.108   | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.557 | 75   | 21836    | 9.083   | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene   | 10.022 | 75   | 26831    | 9.232   | ug/l # | 82       |
| 55) 1,1,2-Trichloroethane     | 10.740 | 97   | 13497    | 9.991   | ug/l # | 92       |
| 56) Ethyl methacrylate        | 10.599 | 69   | 10708    | 8.992   | ug/l # | 81       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 22400    | 9.619   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 32575    | 47.965  | ug/l   | 93       |
| 59) 2-Hexanone                | 10.922 | 43   | 42932    | 54.071  | ug/l   | 88       |
| 60) Dibromochloromethane      | 11.075 | 129  | 14514    | 8.923   | ug/l   | 86       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 12944    | 10.179  | ug/l   | 90       |
| 64) Tetrachloroethene         | 10.810 | 164  | 15093    | 9.522   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.610 | 112  | 57793    | 9.878   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 17403    | 9.704   | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.687 | 91   | 83036    | 9.248   | ug/l   | 93       |
| 68) m/p-Xylenes               | 11.793 | 106  | 62798    | 18.285  | ug/l   | 91       |
| 69) o-Xylene                  | 12.122 | 106  | 29037    | 9.174   | ug/l   | 99       |
| 70) Styrene                   | 12.140 | 104  | 41584    | 8.836   | ug/l   | 92       |
| 71) Bromoform                 | 12.304 | 173  | 8597     | 9.175   | ug/l # | 97       |
| 73) Isopropylbenzene          | 12.422 | 105  | 75026    | 9.201   | ug/l   | 95       |
| 74) N-amyl acetate            | 12.234 | 43   | 15895    | 9.917   | ug/l # | 87       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 14972    | 10.531  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.728 | 75   | 10446m   | 11.180  | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 18933    | 9.872   | ug/l   | 90       |
| 78) n-propylbenzene           | 12.763 | 91   | 93167    | 9.377   | ug/l   | 96       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 50236    | 9.435   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 61521    | 9.046   | ug/l   | 96       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 4459     | 9.669   | ug/l   | 90       |
| 82) 4-Chlorotoluene           | 12.951 | 91   | 54156    | 9.729   | ug/l   | 95       |
| 83) tert-Butylbenzene         | 13.169 | 119  | 53859    | 9.381   | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 61644    | 9.063   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.345 | 105  | 78470    | 9.247   | ug/l   | 96       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 66016    | 8.688   | ug/l   | 96       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 36483    | 9.302   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.540 | 146  | 41618    | 9.326   | ug/l   | 90       |
| 89) n-Butylbenzene            | 13.792 | 91   | 64646    | 9.042   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.057 | 117  | 12778    | 9.144   | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 32186    | 9.649   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.440 | 75   | 2131     | 9.554   | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.104 | 180  | 20684    | 9.078   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 10962    | 8.922   | ug/l   | 96       |
| 95) Naphthalene               | 15.334 | 128  | 33700    | 8.902   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.528 | 180  | 17362    | 9.243   | ug/l   | 95       |

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ALS Vial : 4 Sample Multiplier: 1

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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

