

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD051624\  
 Data File : VD078938.D  
 Acq On : 16 May 2024 09:57  
 Operator : RP/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ml/MSVOA\_D/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/17/2024  
 Supervised By :Mahesh Dadoda 05/17/2024

Quant Time: May 17 06:06:30 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051324S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 14 06:21:28 2024  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.875          | 168  | 133669     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.781          | 114  | 207968     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.581         | 117  | 198752     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.516         | 152  | 110364     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.228          | 65   | 59667      | 47.588   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 95.180%  |        |          |
| 35) Dibromofluoromethane     | 7.804          | 113  | 68582      | 49.540   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 99.080%  |        |          |
| 50) Toluene-d8               | 10.269         | 98   | 265919     | 51.239   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 58 - 134 |      | Recovery = | 102.480% |        |          |
| 62) 4-Bromofluorobenzene     | 12.575         | 95   | 76157      | 52.236   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 30 - 143 |      | Recovery = | 104.480% |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.934          | 85   | 59345      | 47.514   | ug/l   | 99       |
| 3) Chloromethane             | 2.152          | 50   | 91590      | 54.915   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.287          | 62   | 153677     | 57.911   | ug/l   | 100      |
| 5) Bromomethane              | 2.693          | 94   | 113081     | 44.166   | ug/l   | 99       |
| 6) Chloroethane              | 2.840          | 64   | 113225     | 47.357   | ug/l   | 99       |
| 7) Trichlorofluoromethane    | 3.175          | 101  | 112148     | 42.840   | ug/l   | 97       |
| 8) Diethyl Ether             | 3.593          | 74   | 33384      | 56.199   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 3.975          | 101  | 67502      | 48.831   | ug/l   | 98       |
| 10) Methyl Iodide            | 4.163          | 142  | 74609      | 45.175   | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.046          | 59   | 16066      | 293.664  | ug/l # | 87       |
| 12) 1,1-Dichloroethene       | 3.940          | 96   | 65625      | 48.498   | ug/l   | 98       |
| 13) Acrolein                 | 3.799          | 56   | 28916      | 231.673  | ug/l   | 98       |
| 14) Allyl chloride           | 4.563          | 41   | 63301      | 47.942   | ug/l   | 96       |
| 15) Acrylonitrile            | 5.252          | 53   | 66206      | 273.173  | ug/l   | 95       |
| 16) Acetone                  | 4.022          | 43   | 59571      | 297.981  | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.269          | 76   | 189740     | 48.114   | ug/l   | 98       |
| 18) Methyl Acetate           | 4.563          | 43   | 23920      | 51.965   | ug/l   | 95       |
| 19) Methyl tert-butyl Ether  | 5.322          | 73   | 143702     | 54.502   | ug/l   | 96       |
| 20) Methylene Chloride       | 4.799          | 84   | 80063      | 50.385   | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.310          | 96   | 74866      | 49.639   | ug/l   | 98       |
| 22) Diisopropyl ether        | 6.216          | 45   | 155076     | 51.928   | ug/l   | 95       |
| 23) Vinyl Acetate            | 6.152          | 43   | 495401     | 276.573  | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 6.116          | 63   | 115731     | 48.885   | ug/l   | 96       |
| 25) 2-Butanone               | 7.081          | 43   | 77356      | 289.311  | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.075          | 77   | 102841     | 49.431   | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.081          | 96   | 86513      | 48.849   | ug/l   | 97       |
| 28) Bromochloromethane       | 7.428          | 49   | 44384      | 56.216   | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.446          | 42   | 44301      | 286.454  | ug/l   | 97       |
| 30) Chloroform               | 7.593          | 83   | 130355     | 48.614   | ug/l   | 98       |
| 31) Cyclohexane              | 7.881          | 56   | 86196      | 47.055   | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 7.793          | 97   | 116343     | 50.665   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.010          | 75   | 88209      | 51.203   | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.169          | 43   | 33456      | 56.985   | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 7.993          | 117  | 105469     | 52.315   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.275          | 83   | 111149     | 53.101   | ug/l   | 91       |
| 40) Benzene                  | 8.251          | 78   | 286633     | 51.442   | ug/l   | 98       |

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 Quant Title : SW846 8260  
 QLast Update : Tue May 14 06:21:28 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.404  | 41   | 14385    | 45.535   | ug/l # | 86       |
| 42) 1,2-Dichloroethane        | 8.322  | 62   | 69020    | 51.176   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.363  | 43   | 60763    | 58.329   | ug/l   | 99       |
| 44) Trichloroethene           | 9.028  | 130  | 76078    | 51.476   | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.304  | 63   | 65934    | 53.849   | ug/l   | 93       |
| 46) Dibromomethane            | 9.393  | 93   | 41338    | 51.284   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.587  | 83   | 100878   | 51.991   | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.381  | 41   | 28515    | 56.229   | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.387  | 88   | 9571     | 1349.858 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.157 | 43   | 164084   | 295.721  | ug/l   | 97       |
| 52) Toluene                   | 10.334 | 92   | 186781   | 52.368   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.551 | 75   | 89732    | 54.423   | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.016 | 75   | 106537   | 53.834   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.734 | 97   | 57358    | 55.079   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.598 | 69   | 63711    | 59.464   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.881 | 76   | 87544    | 53.987   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.869  | 63   | 135954   | 295.322  | ug/l   | 99       |
| 59) 2-Hexanone                | 10.922 | 43   | 122099   | 316.148  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.075 | 129  | 76247    | 53.709   | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.181 | 107  | 53242    | 56.073   | ug/l   | 97       |
| 64) Tetrachloroethene         | 10.810 | 164  | 64436    | 51.101   | ug/l   | 96       |
| 65) Chlorobenzene             | 11.610 | 112  | 216624   | 52.398   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.681 | 131  | 78133    | 54.668   | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.681 | 91   | 360952   | 54.281   | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.792 | 106  | 296950   | 109.840  | ug/l   | 97       |
| 69) o-Xylene                  | 12.122 | 106  | 134865   | 54.719   | ug/l   | 95       |
| 70) Styrene                   | 12.134 | 104  | 244640   | 56.005   | ug/l   | 99       |
| 71) Bromoform                 | 12.298 | 173  | 44580    | 54.452   | ug/l # | 96       |
| 73) Isopropylbenzene          | 12.422 | 105  | 342598   | 52.010   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.234 | 43   | 60090    | 56.221   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.675 | 83   | 63101    | 53.107   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.722 | 75   | 42105m   | 54.191   | ug/l   |          |
| 77) Bromobenzene              | 12.698 | 156  | 85831    | 49.551   | ug/l   | 99       |
| 78) n-propylbenzene           | 12.763 | 91   | 415118   | 52.139   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.851 | 91   | 224842   | 50.810   | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.904 | 105  | 292189   | 53.390   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.469 | 75   | 21035    | 53.687   | ug/l   | 91       |
| 82) 4-Chlorotoluene           | 12.945 | 91   | 242180   | 52.167   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.169 | 119  | 255190   | 52.725   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.210 | 105  | 300719   | 53.049   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.345 | 105  | 377587   | 52.299   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.463 | 119  | 341767   | 54.333   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.457 | 146  | 187930   | 51.269   | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.539 | 146  | 181266   | 50.495   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.786 | 91   | 296613   | 52.624   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.057 | 117  | 64757    | 48.806   | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 13.834 | 146  | 159939   | 52.149   | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.445 | 75   | 8480     | 53.609   | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.098 | 180  | 93642    | 52.001   | ug/l   | 96       |
| 94) Hexachlorobutadiene       | 15.204 | 225  | 48423    | 51.454   | ug/l   | 95       |
| 95) Naphthalene               | 15.333 | 128  | 178660   | 58.245   | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 15.522 | 180  | 87339    | 54.522   | 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

