

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD120321\  
 Data File : VD071139.D  
 Acq On : 03 Dec 2021 17:57  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/04/2021  
 Supervised By : Mahesh Dadoda 12/06/2021

Quant Time: Dec 04 03:51:36 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D112921S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 263074     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 442253     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 410042     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 204937     | 50.000  | ug/l   | 0.00     |
|                              |                |      |            |         |        |          |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 152271     | 49.329  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 98.660% |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 139337     | 49.477  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 98.960% |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 497923     | 46.460  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 92.920% |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 178043     | 47.926  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 95.860% |        |          |
|                              |                |      |            |         |        |          |
| Target Compounds             |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 101891     | 45.418  | ug/l   | 98       |
| 3) Chloromethane             | 2.209          | 50   | 159532     | 53.752  | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.350          | 62   | 186393     | 56.291  | ug/l   | 99       |
| 5) Bromomethane              | 2.768          | 94   | 123143     | 51.589  | ug/l   | 96       |
| 6) Chloroethane              | 2.926          | 64   | 133316     | 58.538  | ug/l   | 89       |
| 7) Trichlorofluoromethane    | 3.279          | 101  | 237252     | 52.892  | ug/l   | 100      |
| 8) Diethyl Ether             | 3.709          | 74   | 69223      | 56.925  | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 141674     | 53.534  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.303          | 142  | 132805     | 43.791  | ug/l   | 95       |
| 11) Tert butyl alcohol       | 5.215          | 59   | 68363      | 363.652 | ug/l # | 93       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 122215     | 50.043  | ug/l   | 90       |
| 13) Acrolein                 | 3.926          | 56   | 46375      | 219.842 | ug/l   | 99       |
| 14) Allyl chloride           | 4.715          | 41   | 237664     | 51.234  | ug/l # | 81       |
| 15) Acrylonitrile            | 5.420          | 53   | 187011     | 316.218 | ug/l   | 97       |
| 16) Acetone                  | 4.156          | 43   | 240133     | 287.668 | ug/l # | 88       |
| 17) Carbon Disulfide         | 4.409          | 76   | 350849     | 49.067  | ug/l   | 97       |
| 18) Methyl Acetate           | 4.720          | 43   | 131474     | 57.726  | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 346179     | 57.839  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.967          | 84   | 154494     | 49.561  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 148158     | 53.893  | ug/l   | 91       |
| 22) Diisopropyl ether        | 6.367          | 45   | 523966     | 56.376  | ug/l   | 94       |
| 23) Vinyl Acetate            | 6.303          | 43   | 1330035    | 263.038 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 288255     | 53.923  | ug/l   | 96       |
| 25) 2-Butanone               | 7.209          | 43   | 272225     | 283.293 | ug/l   | 93       |
| 26) 2,2-Dichloropropane      | 7.209          | 77   | 244949     | 50.390  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.214          | 96   | 174445     | 56.089  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.544          | 49   | 123064     | 53.002  | ug/l   | 89       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 157863     | 322.061 | ug/l   | 93       |
| 30) Chloroform               | 7.708          | 83   | 298564     | 55.651  | ug/l   | 91       |
| 31) Cyclohexane              | 7.985          | 56   | 253619     | 48.302  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 261434     | 54.276  | ug/l   | 94       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 217258     | 52.561  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.297          | 43   | 112086     | 62.776  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 221845     | 54.447  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.350          | 83   | 259072     | 52.110  | ug/l   | 98       |
| 40) Benzene                  | 8.350          | 78   | 603745     | 53.773  | ug/l   | 98       |

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 Quant Title : SW846 8260  
 QLast Update : Mon Nov 29 17:54:09 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 62851    | 67.235   | ug/l # | 82       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 197856   | 57.732   | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 219741   | 55.312   | ug/l # | 88       |
| 44) Trichloroethene           | 9.108  | 130  | 156023   | 52.119   | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 161660   | 54.751   | ug/l   | 98       |
| 46) Dibromomethane            | 9.473  | 93   | 90114    | 58.826   | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.655  | 83   | 229053   | 56.539   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.455  | 41   | 106642   | 61.018   | ug/l # | 82       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 20207    | 1366.501 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 579764   | 283.302  | ug/l   | 91       |
| 52) Toluene                   | 10.397 | 92   | 391929   | 55.017   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 212979   | 57.179   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 245282   | 55.438   | ug/l # | 84       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 119688   | 59.558   | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 155166   | 53.200   | ug/l # | 75       |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 212406   | 60.167   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 363074   | 265.502  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.979 | 43   | 431925   | 279.909  | ug/l   | 89       |
| 60) Dibromochloromethane      | 11.132 | 129  | 150008   | 60.060   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 115079   | 59.625   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 138446   | 53.184   | ug/l   | 98       |
| 65) Chlorobenzene             | 11.667 | 112  | 404857   | 53.214   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 156861   | 56.468   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 766040   | 53.486   | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.849 | 106  | 581540   | 107.550  | ug/l   | 97       |
| 69) o-Xylene                  | 12.173 | 106  | 274468   | 54.007   | ug/l   | 97       |
| 70) Styrene                   | 12.185 | 104  | 476089   | 55.585   | ug/l   | 97       |
| 71) Bromoform                 | 12.355 | 173  | 88109    | 61.225   | ug/l   | 99       |
| 73) Isopropylbenzene          | 12.473 | 105  | 741881   | 49.995   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 205692   | 50.557   | ug/l # | 89       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 140147   | 57.350   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 99776m   | 51.100   | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 162860   | 50.670   | ug/l   | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 927161   | 50.172   | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 516366   | 49.785   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 614237   | 50.197   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 40006    | 48.162   | ug/l # | 78       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 538084   | 49.972   | ug/l   | 99       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 528799   | 50.320   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 614662   | 51.450   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 809654   | 50.444   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 669990   | 51.036   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 334896   | 52.342   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 332689   | 52.483   | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.832 | 91   | 658446   | 51.380   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 124699   | 50.109   | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 288862   | 53.089   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 23752    | 59.685   | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 182647   | 53.815   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 98427    | 51.255   | ug/l   | 99       |
| 95) Naphthalene               | 15.385 | 128  | 352878   | 58.980   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 162562   | 56.393   | 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

