

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081922\  
 Data File : VD074168.D  
 Acq On : 20 Aug 2022 00:42  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Quant Time: Aug 20 01:32:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081822S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 19 09:25:06 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 08/22/2022  
 Supervised By :Mahesh Dadoda 08/22/2022

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.967          | 168  | 157761     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.855          | 114  | 263660     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.632         | 117  | 247858     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.555         | 152  | 118743     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.320          | 65   | 58417      | 49.766   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 99.540%  |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 68440      | 53.225   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 106.440% |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 176234     | 48.664   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 97.320%  |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 94246      | 47.771   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 95.540%  |        |          |
| Target Compounds             |                |      |            |          |        |          |
|                              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 72731      | 46.221   | ug/l   | 96       |
| 3) Chloromethane             | 2.209          | 50   | 53285      | 37.534   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.344          | 62   | 55284      | 41.336   | ug/l   | 99       |
| 5) Bromomethane              | 2.762          | 94   | 33599      | 42.109   | ug/l   | 100      |
| 6) Chloroethane              | 2.914          | 64   | 35619      | 43.815   | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.267          | 101  | 142216     | 46.559   | ug/l   | 92       |
| 8) Diethyl Ether             | 3.703          | 74   | 43065      | 50.521   | ug/l   | 91       |
| 9) 1,1,2-Trichlorotrifluo... | 4.085          | 101  | 86549      | 48.095   | ug/l   | 96       |
| 10) Methyl Iodide            | 4.291          | 142  | 112350     | 54.579   | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 31458      | 272.604  | ug/l # | 86       |
| 12) 1,1-Dichloroethene       | 4.061          | 96   | 79606      | 46.942   | ug/l   | 88       |
| 13) Acrolein                 | 3.920          | 56   | 30768      | 213.589  | ug/l   | 98       |
| 14) Allyl chloride           | 4.709          | 41   | 131577     | 47.150   | ug/l   | 94       |
| 15) Acrylonitrile            | 5.420          | 53   | 110484     | 268.361  | ug/l   | 95       |
| 16) Acetone                  | 4.150          | 43   | 82789      | 243.580  | ug/l   | 95       |
| 17) Carbon Disulfide         | 4.403          | 76   | 238309     | 41.838   | ug/l   | 99       |
| 18) Methyl Acetate           | 4.714          | 43   | 52838      | 49.752   | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 216349     | 55.067   | ug/l   | 97       |
| 20) Methylene Chloride       | 4.961          | 84   | 127122     | 54.940   | ug/l # | 84       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 95245      | 48.459   | ug/l   | 94       |
| 22) Diisopropyl ether        | 6.361          | 45   | 276143     | 49.854   | ug/l # | 92       |
| 23) Vinyl Acetate            | 6.303          | 43   | 745022     | 239.618  | ug/l # | 93       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 166265     | 47.419   | ug/l   | 99       |
| 25) 2-Butanone               | 7.208          | 43   | 135566     | 244.442  | ug/l   | 92       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 133644     | 44.412   | ug/l   | 97       |
| 27) cis-1,2-Dichloroethene   | 7.203          | 96   | 109824     | 52.136   | ug/l   | 89       |
| 28) Bromochloromethane       | 7.538          | 49   | 47510      | 42.550   | ug/l # | 77       |
| 29) Tetrahydrofuran          | 7.550          | 42   | 84712      | 251.857  | ug/l   | 92       |
| 30) Chloroform               | 7.702          | 83   | 179370     | 49.589   | ug/l   | 100      |
| 31) Cyclohexane              | 7.979          | 56   | 137033     | 41.016   | ug/l   | 89       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 159149     | 49.450   | ug/l   | 97       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 127012     | 47.062   | ug/l   | 96       |
| 37) Ethyl Acetate            | 7.285          | 43   | 62041      | 51.298   | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 132467     | 49.633   | ug/l   | 94       |
| 39) Methylcyclohexane        | 9.349          | 83   | 145895     | 46.379   | ug/l   | 94       |
| 40) Benzene                  | 8.344          | 78   | 381332     | 51.169   | ug/l   | 99       |

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 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
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Reviewed By :Krupa Patel 08/22/2022  
 Supervised By :Mahesh Dadoda 08/22/2022

Quant Time: Aug 20 01:32:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081822S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 19 09:25:06 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 37248    | 59.850   | ug/l   | 94       |
| 42) 1,2-Dichloroethane        | 8.414  | 62   | 116841   | 52.717   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.444  | 43   | 115498   | 51.568   | ug/l # | 93       |
| 44) Trichloroethene           | 9.102  | 130  | 105286   | 52.315   | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 95463    | 50.560   | ug/l   | 98       |
| 46) Dibromomethane            | 9.467  | 93   | 56514    | 53.681   | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.649  | 83   | 140305   | 52.712   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.449  | 41   | 58060    | 52.600   | ug/l   | 90       |
| 49) 1,4-Dioxane               | 9.449  | 88   | 13653    | 1209.784 | ug/l   | 97       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 307398   | 266.682  | ug/l   | 95       |
| 52) Toluene                   | 10.396 | 92   | 245971   | 53.481   | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.608 | 75   | 126316   | 52.229   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.079 | 75   | 151846   | 52.602   | ug/l   | 90       |
| 55) 1,1,2-Trichloroethane     | 10.785 | 97   | 77613    | 55.994   | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.649 | 69   | 94232    | 55.603   | ug/l   | 88       |
| 57) 1,3-Dichloropropane       | 10.932 | 76   | 129794   | 52.889   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 103739   | 208.832  | ug/l   | 92       |
| 59) 2-Hexanone                | 10.973 | 43   | 209406   | 272.378  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.126 | 129  | 98726    | 56.561   | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.232 | 107  | 73616    | 54.663   | ug/l   | 95       |
| 64) Tetrachloroethene         | 10.867 | 164  | 86134    | 51.196   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.655 | 112  | 263429   | 52.250   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 102074   | 55.972   | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.732 | 91   | 461290   | 51.809   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.843 | 106  | 368232   | 107.598  | ug/l   | 97       |
| 69) o-Xylene                  | 12.167 | 106  | 172010   | 53.775   | ug/l   | 95       |
| 70) Styrene                   | 12.179 | 104  | 299011   | 54.722   | ug/l   | 99       |
| 71) Bromoform                 | 12.343 | 173  | 57569    | 59.034   | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.467 | 105  | 445296   | 51.492   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.273 | 43   | 105831   | 48.757   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83   | 86782    | 52.418   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.767 | 75   | 54877m   | 44.627   | ug/l   |          |
| 77) Bromobenzene              | 12.743 | 156  | 105779   | 53.350   | ug/l   | 90       |
| 78) n-propylbenzene           | 12.808 | 91   | 543883   | 50.729   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.890 | 91   | 319088   | 51.857   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.943 | 105  | 384496   | 53.177   | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 23719    | 50.473   | ug/l   | 88       |
| 82) 4-Chlorotoluene           | 12.990 | 91   | 335478   | 51.805   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.208 | 119  | 321596   | 52.599   | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 374399   | 52.567   | ug/l   | 97       |
| 85) sec-Butylbenzene          | 13.385 | 105  | 480614   | 51.710   | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.496 | 119  | 400625   | 51.919   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.496 | 146  | 208882   | 52.783   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 210898   | 53.370   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.826 | 91   | 366020   | 48.639   | ug/l   | 98       |
| 90) Hexachloroethane          | 14.090 | 117  | 76786    | 50.915   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 186373   | 53.285   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.484 | 75   | 15197    | 53.487   | ug/l   | 90       |
| 93) 1,2,4-Trichlorobenzene    | 15.137 | 180  | 113095   | 55.307   | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.243 | 225  | 54843    | 50.564   | ug/l   | 99       |
| 95) Naphthalene               | 15.379 | 128  | 233251   | 56.317   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.567 | 180  | 102380   | 56.771   | ug/l   | 98       |

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ALS Vial : 24 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 08/22/2022  
Supervised By :Mahesh Dadoda 08/22/2022

Quant Time: Aug 20 01:32:09 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081822S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 19 09:25:06 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

