

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD080422\  
 Data File : VD073956.D  
 Acq On : 04 Aug 2022 16:39  
 Operator : VA/SY  
 Sample : VD0804SBS03  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0804SBS03

Quant Time: Aug 05 07:53:54 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D080122S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 02 05:13:57 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Krupa Patel 08/05/2022  
 Supervised By :Mahesh Dadoda 08/05/2022

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 141269              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.855          | 114  | 238176              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.632         | 117  | 219192              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 107512              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.320          | 65   | 63629               | 55.228  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 110.460% |         |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 68701               | 46.425  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 92.860%  |         |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 216568              | 43.446  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 86.900%  |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 84527               | 46.111  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 92.220%  |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 23186               | 18.197  | ug/l   | 97       |
| 3) Chloromethane             | 2.209          | 50   | 31717               | 17.669  | ug/l   | 97       |
| 4) Vinyl Chloride            | 2.344          | 62   | 44874               | 20.272  | ug/l   | 96       |
| 5) Bromomethane              | 2.762          | 94   | 31308               | 20.028  | ug/l   | 96       |
| 6) Chloroethane              | 2.915          | 64   | 33595               | 21.579  | ug/l   | 91       |
| 7) Trichlorofluoromethane    | 3.262          | 101  | 49887               | 21.022  | ug/l   | 92       |
| 8) Diethyl Ether             | 3.709          | 74   | 11039               | 18.483  | ug/l   | 86       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 28117               | 19.988  | ug/l   | 98       |
| 10) Methyl Iodide            | 4.291          | 142  | 25355               | 16.484  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.238          | 59   | 11604m              | 130.817 | ug/l   |          |
| 12) 1,1-Dichloroethene       | 4.062          | 96   | 22960               | 18.421  | ug/l   | 89       |
| 13) Acrolein                 | 3.932          | 56   | 3597                | 62.999  | ug/l   | 99       |
| 14) Allyl chloride           | 4.709          | 41   | 31758               | 18.845  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.420          | 53   | 24932               | 97.510  | ug/l   | 95       |
| 16) Acetone                  | 4.156          | 43   | 25333               | 94.539  | ug/l   | 94       |
| 17) Carbon Disulfide         | 4.409          | 76   | 55679               | 15.761  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.715          | 43   | 14515               | 20.714  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 58946               | 19.534  | ug/l   | 100      |
| 20) Methylene Chloride       | 4.956          | 84   | 45845               | 19.439  | ug/l   | 91       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 26392               | 17.767  | ug/l   | 90       |
| 22) Diisopropyl ether        | 6.356          | 45   | 72576               | 19.836  | ug/l   | 90       |
| 23) Vinyl Acetate            | 6.303          | 43   | 190549m             | 98.538  | ug/l   |          |
| 24) 1,1-Dichloroethane       | 6.256          | 63   | 50678               | 20.476  | ug/l   | 98       |
| 25) 2-Butanone               | 7.208          | 43   | 34428               | 99.854  | ug/l   | 90       |
| 26) 2,2-Dichloropropane      | 7.197          | 77   | 49447               | 19.759  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.203          | 96   | 31955               | 19.109  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.532          | 49   | 17096               | 20.699  | ug/l # | 7        |
| 29) Tetrahydrofuran          | 7.561          | 42   | 21696               | 107.696 | ug/l   | 93       |
| 30) Chloroform               | 7.703          | 83   | 56929               | 20.186  | ug/l   | 93       |
| 31) Cyclohexane              | 7.979          | 56   | 36372               | 16.627  | ug/l   | 94       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 53532               | 19.935  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.103          | 75   | 37634               | 17.856  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.285          | 43   | 16665               | 21.231  | ug/l # | 92       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 45041               | 19.077  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.350          | 83   | 39979               | 16.183  | ug/l   | 98       |
| 40) Benzene                  | 8.344          | 78   | 107419              | 18.574  | ug/l   | 99       |

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 MSVOA\_D  
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Quant Time: Aug 05 07:53:54 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D080122S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 02 05:13:57 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Krupa Patel 08/05/2022  
 Supervised By :Mahesh Dadoda 08/05/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 8990     | 19.840  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 8.414  | 62   | 35485    | 19.991  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.450  | 43   | 31810    | 20.465  | ug/l   | 98       |
| 44) Trichloroethene           | 9.108  | 130  | 31137    | 17.871  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 27719    | 19.918  | ug/l   | 97       |
| 46) Dibromomethane            | 9.467  | 93   | 17741    | 19.821  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.650  | 83   | 45230    | 20.400  | ug/l   | 96       |
| 48) Methyl methacrylate       | 9.450  | 41   | 13349    | 18.403  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 3831     | 406.107 | ug/l   | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 78087    | 100.622 | ug/l   | 98       |
| 52) Toluene                   | 10.391 | 92   | 73447    | 18.663  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 39921    | 19.560  | ug/l   | 90       |
| 54) cis-1,3-Dichloropropene   | 10.079 | 75   | 44505    | 19.261  | ug/l   | 95       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 23211    | 20.162  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.649 | 69   | 25287    | 19.292  | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.932 | 76   | 37751    | 20.261  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 43327    | 86.375  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.973 | 43   | 54124    | 103.066 | ug/l   | 94       |
| 60) Dibromochloromethane      | 11.132 | 129  | 31641    | 20.370  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.232 | 107  | 21831    | 18.709  | ug/l   | 92       |
| 64) Tetrachloroethene         | 10.867 | 164  | 26431    | 16.944  | ug/l   | 97       |
| 65) Chlorobenzene             | 11.655 | 112  | 81336    | 18.718  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.732 | 131  | 32401    | 19.466  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.732 | 91   | 138548   | 18.052  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.844 | 106  | 111837   | 36.758  | ug/l   | 98       |
| 69) o-Xylene                  | 12.167 | 106  | 51003    | 17.898  | ug/l   | 100      |
| 70) Styrene                   | 12.185 | 104  | 88929    | 18.477  | ug/l   | 98       |
| 71) Bromoform                 | 12.349 | 173  | 18536    | 20.276  | ug/l # | 95       |
| 73) Isopropylbenzene          | 12.467 | 105  | 137578   | 18.559  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.273 | 43   | 28552    | 19.234  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83   | 27078    | 21.442  | ug/l   | 97       |
| 76) 1,2,3-Trichloropropane    | 12.767 | 75   | 20516m   | 23.938  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 33460    | 19.174  | ug/l   | 94       |
| 78) n-propylbenzene           | 12.808 | 91   | 171678   | 19.043  | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.891 | 91   | 94808    | 18.384  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.943 | 105  | 117047   | 18.585  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.508 | 75   | 7228     | 19.288  | ug/l # | 86       |
| 82) 4-Chlorotoluene           | 12.991 | 91   | 102613   | 18.982  | ug/l   | 96       |
| 83) tert-Butylbenzene         | 13.208 | 119  | 102518   | 18.695  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 117629   | 18.906  | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.385 | 105  | 158736   | 19.131  | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.496 | 119  | 128462   | 18.431  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.496 | 146  | 69453    | 19.059  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.579 | 146  | 67997    | 18.837  | ug/l   | 96       |
| 89) n-Butylbenzene            | 13.826 | 91   | 120990   | 18.826  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 26356    | 20.635  | ug/l   | 95       |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 61522    | 19.745  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.485 | 75   | 4465     | 20.758  | ug/l   | 87       |
| 93) 1,2,4-Trichlorobenzene    | 15.137 | 180  | 35324    | 18.232  | ug/l   | 100      |
| 94) Hexachlorobutadiene       | 15.243 | 225  | 19339    | 18.372  | ug/l   | 99       |
| 95) Naphthalene               | 15.379 | 128  | 65380    | 18.475  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.567 | 180  | 31133    | 18.590  | ug/l   | 96       |

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MSVOA\_D  
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Manual Integrations  
APPROVED

Reviewed By :Krupa Patel 08/05/2022  
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Quant Title : SW846 8260  
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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

