

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD031822\  
 Data File : VD072327.D  
 Acq On : 19 Mar 2022 09:48  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.31G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTD05006EC

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/21/2022  
 Supervised By : Mahesh Dadoda 03/21/2022

Quant Time: Mar 21 01:29:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 14 05:18:06 2022  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 325018              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 582325              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 556447              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.561         | 152  | 271965              | 50.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.326          | 65   | 221442              | 61.136  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 122.280% |         |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 219892              | 53.660  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 107.320% |         |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 767818              | 51.243  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 102.480% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 291131              | 50.005  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 100.000% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 122397              | 40.715  | ug/l   | 98       |
| 3) Chloromethane             | 2.209          | 50   | 163694              | 61.278  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.350          | 62   | 148688              | 57.663  | ug/l   | 100      |
| 5) Bromomethane              | 2.762          | 94   | 115259              | 68.643  | ug/l   | 93       |
| 6) Chloroethane              | 2.921          | 64   | 107408              | 63.001  | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 269075              | 46.207  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.709          | 74   | 105026              | 65.303  | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 171627              | 46.223  | ug/l   | 97       |
| 10) Methyl Iodide            | 4.303          | 142  | 148434              | 44.861  | ug/l   | 99       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 59664               | 284.093 | ug/l   | 95       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 152850              | 51.169  | ug/l   | 94       |
| 13) Acrolein                 | 3.920          | 56   | 28544               | 152.315 | ug/l   | 97       |
| 14) Allyl chloride           | 4.715          | 41   | 315005              | 60.314  | ug/l   | 93       |
| 15) Acrylonitrile            | 5.420          | 53   | 268688              | 331.099 | ug/l   | 99       |
| 16) Acetone                  | 4.156          | 43   | 199797              | 254.052 | ug/l   | 96       |
| 17) Carbon Disulfide         | 4.409          | 76   | 360139              | 51.642  | ug/l   | 96       |
| 18) Methyl Acetate           | 4.715          | 43   | 129602              | 67.247  | ug/l   | 98       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 525635              | 64.741  | ug/l   | 98       |
| 20) Methylene Chloride       | 4.967          | 84   | 250513              | 66.474  | ug/l   | 89       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 195109              | 59.053  | ug/l   | 95       |
| 22) Diisopropyl ether        | 6.362          | 45   | 781516              | 65.604  | ug/l   | 93       |
| 23) Vinyl Acetate            | 6.303          | 43   | 2075395             | 341.368 | ug/l   | 96       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 422814              | 60.182  | ug/l   | 98       |
| 25) 2-Butanone               | 7.209          | 43   | 326011              | 310.910 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.209          | 77   | 277714              | 43.810  | ug/l   | 96       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 251571              | 59.640  | ug/l   | 94       |
| 28) Bromochloromethane       | 7.544          | 49   | 190226              | 67.257  | ug/l   | 88       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 213837              | 346.815 | ug/l   | 95       |
| 30) Chloroform               | 7.703          | 83   | 442255              | 59.089  | ug/l   | 96       |
| 31) Cyclohexane              | 7.985          | 56   | 276993              | 48.947  | ug/l   | 95       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 350413              | 52.714  | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 274554              | 47.759  | ug/l   | 98       |
| 37) Ethyl Acetate            | 7.291          | 43   | 152342              | 60.496  | ug/l # | 96       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 286076              | 43.778  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.350          | 83   | 284378              | 43.960  | ug/l   | 98       |
| 40) Benzene                  | 8.350          | 78   | 874341              | 53.312  | ug/l   | 100      |

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 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
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 VSTD05006EC

Manual Integrations  
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Reviewed By : John Carlone 03/21/2022  
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Quant Time: Mar 21 01:29:37 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 14 05:18:06 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|----------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 103201   | 70.312   | ug/l   | 96       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 278009   | 55.880   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 290642   | 59.464   | ug/l # | 95       |
| 44) Trichloroethene           | 9.108  | 130  | 225198   | 48.912   | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.379  | 63   | 250813   | 55.762   | ug/l   | 96       |
| 46) Dibromomethane            | 9.473  | 93   | 130212   | 58.852   | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.655  | 83   | 346706   | 53.752   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.450  | 41   | 137084   | 58.738   | ug/l   | 87       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 31447    | 1185.242 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 786226   | 306.265  | ug/l   | 95       |
| 52) Toluene                   | 10.397 | 92   | 565691   | 52.418   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 304708   | 51.706   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 362417   | 53.199   | ug/l   | 93       |
| 55) 1,1,2-Trichloroethane     | 10.791 | 97   | 182414   | 54.121   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 234215   | 59.328   | ug/l   | 91       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 322445   | 57.002   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 506803   | 285.516  | ug/l   | 97       |
| 59) 2-Hexanone                | 10.979 | 43   | 532689   | 300.437  | ug/l   | 97       |
| 60) Dibromochloromethane      | 11.132 | 129  | 235522   | 53.852   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 171010   | 56.150   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.867 | 164  | 179258   | 45.722   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.661 | 112  | 623959   | 50.579   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 240193   | 49.237   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.738 | 91   | 1096485  | 49.766   | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.844 | 106  | 830928   | 99.318   | ug/l   | 100      |
| 69) o-Xylene                  | 12.173 | 106  | 404601   | 50.559   | ug/l   | 98       |
| 70) Styrene                   | 12.185 | 104  | 716101   | 51.245   | ug/l   | 98       |
| 71) Bromoform                 | 12.349 | 173  | 135358   | 51.944   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.473 | 105  | 1060784  | 49.220   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.279 | 43   | 276947   | 59.796   | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 215542   | 55.920   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 163464m  | 54.488   | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 256914   | 52.963   | ug/l   | 93       |
| 78) n-propylbenzene           | 12.808 | 91   | 1279695  | 48.884   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 762288   | 50.358   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 901933   | 48.713   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.514 | 75   | 59892    | 49.532   | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 12.991 | 91   | 787599   | 50.250   | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 785768   | 48.407   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 893726   | 48.989   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 1128069  | 46.276   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 935985   | 46.661   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 495401   | 48.730   | ug/l   | 100      |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 490676   | 48.673   | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.832 | 91   | 841429   | 44.008   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.096 | 117  | 192046   | 48.848   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.873 | 146  | 450029   | 50.773   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.490 | 75   | 32999    | 53.644   | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 271953   | 46.343   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 136593   | 40.015   | ug/l   | 98       |
| 95) Naphthalene               | 15.385 | 128  | 604299   | 59.739   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 247817   | 48.788   | ug/l   | 99       |

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ALS Vial : 49 Sample Multiplier: 1

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Manual Integrations  
APPROVED

Reviewed By : John Carlone 03/21/2022  
Supervised By : Mahesh Dadoda 03/21/2022

Quant Time: Mar 21 01:29:37 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031122S.M  
Quant Title : SW846 8260  
QLast Update : Mon Mar 14 05:18:06 2022  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

