

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD102621\  
 Data File : VD070832.D  
 Acq On : 26 Oct 2021 10:58  
 Operator : VA/SY  
 Sample : VSTDIC010  
 Misc : 5.00G/5.00ml/MSVOA\_D/soil  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDIC010

Quant Time: Oct 27 04:57:14 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102621S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 27 04:55:36 2021  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Vimala Arumugam 10/27/2021  
 Supervised By :Mahesh Dadoda 10/27/2021

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Pentafluorobenzene        | 7.973          | 168  | 389233     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 650170     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.638         | 117  | 600118     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 301932     | 50.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 41849      | 10.609   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 21.220%# |        |          |
| 35) Dibromofluoromethane     | 7.908          | 113  | 44399      | 10.359   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 20.720%# |        |          |
| 50) Toluene-d8               | 10.332         | 98   | 160248     | 9.958    | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 19.920%# |        |          |
| 62) 4-Bromofluorobenzene     | 12.620         | 95   | 53183      | 10.007   | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 20.020%# |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 36995      | 10.435   | ug/l   | 97       |
| 3) Chloromethane             | 2.209          | 50   | 52310      | 10.236   | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.350          | 62   | 56460      | 10.058   | ug/l   | 94       |
| 5) Bromomethane              | 2.768          | 94   | 46011      | 11.454   | ug/l   | 95       |
| 6) Chloroethane              | 2.921          | 64   | 35994      | 10.364   | ug/l   | 93       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 72055      | 10.552   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.709          | 74   | 17804      | 9.119    | ug/l   | 94       |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 45652      | 10.366   | ug/l   | 97       |
| 10) Methyl Iodide            | 4.297          | 142  | 29550      | 7.312    | ug/l   | 95       |
| 11) Tert butyl alcohol       | 5.238          | 59   | 10907      | 51.824   | ug/l # | 71       |
| 12) 1,1-Dichloroethene       | 4.068          | 96   | 37776      | 9.602    | ug/l   | 94       |
| 13) Acrolein                 | 3.920          | 56   | 8820       | 46.177   | ug/l   | 87       |
| 14) Allyl chloride           | 4.715          | 41   | 53939      | 8.787    | ug/l   | 96       |
| 15) Acrylonitrile            | 5.420          | 53   | 43813      | 47.316   | ug/l   | 97       |
| 16) Acetone                  | 4.156          | 43   | 38485      | 42.628   | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.409          | 76   | 133157     | 9.647    | ug/l   | 95       |
| 18) Methyl Acetate           | 4.720          | 43   | 29759      | 9.514    | ug/l # | 69       |
| 19) Methyl tert-butyl Ether  | 5.485          | 73   | 70801      | 8.740    | ug/l   | 96       |
| 20) Methylene Chloride       | 4.967          | 84   | 67816      | 11.097   | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 44961      | 9.773    | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.362          | 45   | 111783     | 8.773    | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.303          | 43   | 241415     | 44.316   | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.262          | 63   | 86162      | 10.035   | ug/l   | 99       |
| 25) 2-Butanone               | 7.209          | 43   | 50450      | 44.765   | ug/l # | 88       |
| 26) 2,2-Dichloropropane      | 7.209          | 77   | 68461      | 10.061   | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.209          | 96   | 47976      | 9.551    | ug/l   | 96       |
| 28) Bromochloromethane       | 7.538          | 49   | 35101      | 10.279   | ug/l # | 14       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 29701      | 43.416   | ug/l   | 99       |
| 30) Chloroform               | 7.703          | 83   | 87133      | 10.158   | ug/l   | 97       |
| 31) Cyclohexane              | 7.979          | 56   | 76015      | 9.572    | ug/l # | 86       |
| 32) 1,1,1-Trichloroethane    | 7.897          | 97   | 74864      | 10.196   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.108          | 75   | 62871      | 9.291    | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 21717      | 8.567    | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 67893      | 10.106   | ug/l   | 96       |
| 39) Methylcyclohexane        | 9.350          | 83   | 64231      | 8.329    | ug/l   | 94       |
| 40) Benzene                  | 8.350          | 78   | 184126     | 9.441    | ug/l   | 99       |

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 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICC010

Manual Integrations  
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 Quant Title : SW846 8260  
 QLast Update : Wed Oct 27 04:55:36 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 13971    | 10.537  | ug/l # | 71       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 47695    | 9.584   | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 41975    | 8.959   | ug/l   | 98       |
| 44) Trichloroethene           | 9.108  | 130  | 51099    | 10.144  | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 49841    | 9.587   | ug/l   | 100      |
| 46) Dibromomethane            | 9.467  | 93   | 24539    | 9.561   | ug/l   | 100      |
| 47) Bromodichloromethane      | 9.655  | 83   | 63679    | 9.736   | ug/l   | 90       |
| 48) Methyl methacrylate       | 9.450  | 41   | 17623    | 7.810   | ug/l # | 82       |
| 49) 1,4-Dioxane               | 9.450  | 88   | 5053     | 184.467 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.220 | 43   | 106473   | 43.367  | ug/l   | 98       |
| 52) Toluene                   | 10.397 | 92   | 107314   | 9.044   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 54119    | 9.332   | ug/l   | 92       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 65569    | 9.249   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.797 | 97   | 35924    | 9.865   | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 32417    | 8.138   | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.938 | 76   | 57116    | 9.363   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.932  | 63   | 77455    | 45.006  | ug/l   | 100      |
| 59) 2-Hexanone                | 10.979 | 43   | 72841    | 41.577  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.132 | 129  | 42297    | 9.846   | ug/l   | 97       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 31583    | 9.469   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.873 | 164  | 39209    | 9.647   | ug/l   | 94       |
| 65) Chlorobenzene             | 11.661 | 112  | 117926   | 9.570   | ug/l   | 95       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 44228    | 9.750   | ug/l   | 94       |
| 67) Ethyl Benzene             | 11.738 | 91   | 189808   | 8.929   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.844 | 106  | 147987   | 17.835  | ug/l   | 98       |
| 69) o-Xylene                  | 12.173 | 106  | 64376    | 8.584   | ug/l   | 99       |
| 70) Styrene                   | 12.185 | 104  | 110406   | 8.561   | ug/l   | 99       |
| 71) Bromoform                 | 12.355 | 173  | 24237    | 9.931   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.473 | 105  | 171612   | 8.499   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.279 | 43   | 37394    | 8.469   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 38826    | 9.433   | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 28116m   | 10.355  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 44171    | 9.075   | ug/l   | 99       |
| 78) n-propylbenzene           | 12.808 | 91   | 221821   | 8.631   | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 132829   | 8.995   | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 148393   | 8.724   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 9920     | 8.855   | ug/l   | 87       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 140448   | 9.051   | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.214 | 119  | 120893   | 8.528   | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.255 | 105  | 142356   | 8.493   | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.391 | 105  | 195440   | 8.814   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.502 | 119  | 153137   | 8.525   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.502 | 146  | 94497    | 9.408   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 94290    | 9.532   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.832 | 91   | 153697   | 8.763   | ug/l   | 94       |
| 90) Hexachloroethane          | 14.096 | 117  | 38703    | 9.818   | ug/l   | 100      |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 79072    | 9.250   | ug/l   | 96       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.491 | 75   | 5318     | 8.914   | ug/l   | 97       |
| 93) 1,2,4-Trichlorobenzene    | 15.143 | 180  | 44189    | 8.886   | ug/l   | 95       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 30766    | 9.496   | ug/l   | 98       |
| 95) Naphthalene               | 15.385 | 128  | 65149    | 7.848   | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 37129    | 8.637   | ug/l   | 98       |

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ALS Vial : 4 Sample Multiplier: 1

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

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

