

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041221\  
 Data File : VD068845.D  
 Acq On : 12 Apr 2021 21:18  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050EC

Manual Integrations  
 APPROVED

MMDadoda  
 4/13/2021 4:10:32 PM

Quant Time: Apr 13 01:13:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D040721S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 08 03:50:31 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|------------------------------|----------------|------|------------|---------|-------|----------|
| -----                        |                |      |            |         |       |          |
| Internal Standards           |                |      |            |         |       |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 251989     | 50.00   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 413096     | 50.00   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.644         | 117  | 404165     | 50.00   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.573         | 152  | 195368     | 50.00   | ug/l  | 0.00     |
|                              |                |      |            |         |       |          |
| System Monitoring Compounds  |                |      |            |         |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.338          | 65   | 115224     | 43.27   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 86.54%  |       |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 129818     | 48.31   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 96.62%  |       |          |
| 50) Toluene-d8               | 10.338         | 98   | 495263     | 48.86   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 97.72%  |       |          |
| 62) 4-Bromofluorobenzene     | 12.632         | 95   | 172309     | 51.18   | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 102.36% |       |          |
|                              |                |      |            |         |       |          |
| Target Compounds             |                |      |            |         |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 98657      | 39.51   | ug/l  | 94       |
| 3) Chloromethane             | 2.209          | 50   | 113020     | 38.50   | ug/l  | 97       |
| 4) Vinyl Chloride            | 2.350          | 62   | 147287     | 39.94   | ug/l  | 99       |
| 5) Bromomethane              | 2.768          | 94   | 118544     | 43.00   | ug/l  | 97       |
| 6) Chloroethane              | 2.920          | 64   | 99728      | 41.15   | ug/l  | 98       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 177363     | 40.88   | ug/l  | 100      |
| 8) Diethyl Ether             | 3.715          | 74   | 52456      | 44.76   | ug/l  | 90       |
| 9) 1,1,2-Trichlorotrifluo... | 4.091          | 101  | 101318     | 38.69   | ug/l  | 97       |
| 10) Methyl Iodide            | 4.297          | 142  | 124722     | 41.12   | ug/l  | 98       |
| 11) Tert butyl alcohol       | 5.220          | 59   | 29723      | 204.85  | ug/l  | 98       |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 102312     | 40.56   | ug/l  | 97       |
| 13) Acrolein                 | 3.920          | 56   | 13886      | 132.47  | ug/l  | 94       |
| 14) Allyl chloride           | 4.720          | 41   | 113102     | 39.79   | ug/l  | 95       |
| 15) Acrylonitrile            | 5.420          | 53   | 114146     | 217.04  | ug/l  | 98       |
| 16) Acetone                  | 4.162          | 43   | 67490      | 183.00  | ug/l  | 96       |
| 17) Carbon Disulfide         | 4.409          | 76   | 311839     | 38.20   | ug/l  | 99       |
| 18) Methyl Acetate           | 4.720          | 43   | 40166      | 39.65   | ug/l  | 100      |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 268460     | 47.97   | ug/l  | 96       |
| 20) Methylene Chloride       | 4.967          | 84   | 132520     | 43.76   | ug/l  | 97       |
| 21) trans-1,2-Dichloroethene | 5.473          | 96   | 141396     | 43.65   | ug/l  | 97       |
| 22) Diisopropyl ether        | 6.361          | 45   | 299052     | 43.42   | ug/l  | 96       |
| 23) Vinyl Acetate            | 6.308          | 43   | 829723     | 227.31  | ug/l  | 97       |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 225367     | 43.40   | ug/l  | 95       |
| 25) 2-Butanone               | 7.214          | 43   | 116308     | 222.87  | ug/l  | 89       |
| 26) 2,2-Dichloropropane      | 7.208          | 77   | 188041     | 44.33   | ug/l  | 100      |
| 27) cis-1,2-Dichloroethene   | 7.214          | 96   | 157130     | 48.81   | ug/l  | 97       |
| 28) Bromochloromethane       | 7.550          | 49   | 73410      | 39.16   | ug/l  | 86       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 75824      | 216.05  | ug/l  | 94       |
| 30) Chloroform               | 7.714          | 83   | 245635     | 43.21   | ug/l  | 92       |
| 31) Cyclohexane              | 7.985          | 56   | 168773     | 38.09   | ug/l  | 95       |
| 32) 1,1,1-Trichloroethane    | 7.908          | 97   | 213512     | 42.99   | ug/l  | 99       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 188376     | 45.05   | ug/l  | 98       |
| 37) Ethyl Acetate            | 7.291          | 43   | 60112      | 48.94   | ug/l  | 99       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 193580     | 46.76   | ug/l  | 96       |
| 39) Methylcyclohexane        | 9.355          | 83   | 227743     | 46.70   | ug/l  | 97       |
| 40) Benzene                  | 8.355          | 78   | 558690     | 45.66   | ug/l  | 97       |

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 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
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MMDadoda  
 4/13/2021 4:10:32 PM

Quant Time: Apr 13 01:13:26 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D040721S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 08 03:50:31 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 30186    | 41.52   | ug/l # | 83       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 151400   | 46.81   | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.455  | 43   | 116404   | 46.49   | ug/l   | 99       |
| 44) Trichloroethene           | 9.114  | 130  | 162674   | 48.13   | ug/l   | 92       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 132552   | 45.35   | ug/l   | 95       |
| 46) Dibromomethane            | 9.473  | 93   | 78339    | 48.12   | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.661  | 83   | 202096   | 47.52   | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.455  | 41   | 55338    | 44.85   | ug/l   | 86       |
| 49) 1,4-Dioxane               | 9.467  | 88   | 18443    | 1069.99 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 298008   | 236.15  | ug/l   | 99       |
| 52) Toluene                   | 10.402 | 92   | 375467   | 48.46   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 185549   | 49.22   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.091 | 75   | 220569   | 48.91   | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 112334   | 48.80   | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 128661   | 54.29   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 181840   | 47.97   | ug/l   | 100      |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63   | 319999   | 253.41  | ug/l   | 95       |
| 59) 2-Hexanone                | 10.985 | 43   | 201110   | 238.17  | ug/l   | 95       |
| 60) Dibromochloromethane      | 11.138 | 129  | 141689   | 49.09   | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.244 | 107  | 111649   | 49.90   | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.873 | 164  | 134596   | 47.51   | ug/l   | 97       |
| 65) Chlorobenzene             | 11.667 | 112  | 418129   | 47.79   | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.743 | 131  | 153821   | 48.90   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.743 | 91   | 724250   | 47.80   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.849 | 106  | 557429   | 95.35   | ug/l   | 98       |
| 69) o-Xylene                  | 12.179 | 106  | 267555   | 50.33   | ug/l   | 97       |
| 70) Styrene                   | 12.191 | 104  | 456199   | 49.24   | ug/l   | 99       |
| 71) Bromoform                 | 12.361 | 173  | 82043    | 48.68   | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.479 | 105  | 698645   | 48.98   | ug/l   | 100      |
| 74) N-amyl acetate            | 12.285 | 43   | 113604   | 46.96   | ug/l   | 96       |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83   | 118786   | 44.55   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.779 | 75   | 77563m   | 43.46   | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 169392   | 49.39   | ug/l   | 93       |
| 78) n-propylbenzene           | 12.820 | 91   | 803110   | 46.35   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 461786   | 47.71   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 576792   | 48.36   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 34072    | 44.30   | ug/l   | 97       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 479022   | 46.69   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.220 | 119  | 493083   | 48.72   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 587187   | 48.75   | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.396 | 105  | 686410   | 48.07   | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 631882   | 48.45   | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 321156   | 47.27   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.590 | 146  | 318022   | 47.30   | ug/l   | 100      |
| 89) n-Butylbenzene            | 13.838 | 91   | 577581   | 47.02   | ug/l   | 99       |
| 90) Hexachloroethane          | 14.108 | 117  | 116368   | 44.79   | ug/l   | 94       |
| 91) 1,2-Dichlorobenzene       | 13.885 | 146  | 276280   | 46.99   | ug/l   | 100      |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 18066    | 44.57   | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.155 | 180  | 187866   | 51.64   | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.261 | 225  | 99847    | 47.94   | ug/l   | 97       |
| 95) Naphthalene               | 15.390 | 128  | 346861   | 54.74   | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.584 | 180  | 158169   | 49.71   | ug/l   | 97       |

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ALS Vial : 23 Sample Multiplier: 1

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Manual Integrations  
APPROVED

MMDadoda  
4/13/2021 4:10:32 PM

Quant Time: Apr 13 01:13:26 2021  
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Quant Title : SW846 8260  
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Response via : Initial Calibration

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

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

