

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW052021\  
 Data File : VW019034.D  
 Acq On : 19 May 2021 12:10  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 5/20/2021 6:00:14 PM

Quant Time: May 20 03:33:48 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W051921S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 19 09:25:10 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|--------|------|----------|--------|---------|----------|
| -----                        |        |      |          |        |         |          |
| Internal Standards           |        |      |          |        |         |          |
| 1) Pentafluorobenzene        | 7.951  | 168  | 408648   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.842  | 114  | 655965   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5         | 11.628 | 117  | 581204   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.560 | 152  | 303593   | 50.00  | ug/l    | 0.00     |
|                              |        |      |          |        |         |          |
| System Monitoring Compounds  |        |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4    | 8.305  | 65   | 229393   | 50.58  | ug/l    | 0.00     |
| Spiked Amount 50.000         |        |      | Recovery | =      | 101.16% |          |
| 35) Dibromofluoromethane     | 7.884  | 113  | 209011   | 51.15  | ug/l    | 0.00     |
| Spiked Amount 50.000         |        |      | Recovery | =      | 102.30% |          |
| 50) Toluene-d8               | 10.323 | 98   | 869978   | 53.48  | ug/l    | 0.00     |
| Spiked Amount 50.000         |        |      | Recovery | =      | 106.96% |          |
| 62) 4-Bromofluorobenzene     | 12.615 | 95   | 309089   | 51.89  | ug/l    | 0.00     |
| Spiked Amount 50.000         |        |      | Recovery | =      | 103.78% |          |
|                              |        |      |          |        |         |          |
| Target Compounds             |        |      |          |        |         | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.013  | 85   | 145423   | 52.86  | ug/l    | 100      |
| 3) Chloromethane             | 2.215  | 50   | 153098   | 50.15  | ug/l    | 99       |
| 4) Vinyl Chloride            | 2.367  | 62   | 231370   | 51.58  | ug/l    | 99       |
| 5) Bromomethane              | 2.788  | 94   | 185536   | 49.37  | ug/l    | 95       |
| 6) Chloroethane              | 2.928  | 64   | 151638   | 49.22  | ug/l    | 96       |
| 7) Trichlorofluoromethane    | 3.263  | 101  | 141627   | 57.41  | ug/l    | 99       |
| 8) Diethyl Ether             | 3.684  | 74   | 100309   | 46.75  | ug/l    | 97       |
| 9) 1,1,2-Trichlorotrifluo... | 4.068  | 101  | 199171   | 49.91  | ug/l    | 98       |
| 10) Methyl Iodide            | 4.275  | 142  | 290222   | 49.56  | ug/l    | 99       |
| 11) Tert butyl alcohol       | 5.190  | 59   | 51785    | 232.17 | ug/l #  | 84       |
| 12) 1,1-Dichloroethene       | 4.044  | 96   | 208330   | 51.19  | ug/l    | 92       |
| 13) Acrolein                 | 3.897  | 56   | 63657    | 231.26 | ug/l    | 99       |
| 14) Allyl chloride           | 4.672  | 41   | 268279   | 50.66  | ug/l    | 99       |
| 15) Acrylonitrile            | 5.367  | 53   | 176315   | 219.09 | ug/l    | 100      |
| 16) Acetone                  | 4.135  | 43   | 190926   | 291.35 | ug/l    | 98       |
| 17) Carbon Disulfide         | 4.385  | 76   | 584194   | 52.53  | ug/l    | 100      |
| 18) Methyl Acetate           | 4.678  | 43   | 81070    | 42.03  | ug/l    | 99       |
| 19) Methyl tert-butyl Ether  | 5.428  | 73   | 247156   | 48.37  | ug/l    | 97       |
| 20) Methylene Chloride       | 4.915  | 84   | 231027   | 48.27  | ug/l    | 96       |
| 21) trans-1,2-Dichloroethene | 5.428  | 96   | 230059   | 49.48  | ug/l    | 99       |
| 22) Diisopropyl ether        | 6.305  | 45   | 508761   | 47.23  | ug/l    | 96       |
| 23) Vinyl Acetate            | 6.251  | 43   | 1694550  | 233.80 | ug/l    | 100      |
| 24) 1,1-Dichloroethane       | 6.220  | 63   | 396242   | 47.50  | ug/l    | 100      |
| 25) 2-Butanone               | 7.171  | 43   | 248471   | 230.83 | ug/l    | 99       |
| 26) 2,2-Dichloropropane      | 7.165  | 77   | 235086   | 52.30  | ug/l    | 98       |
| 27) cis-1,2-Dichloroethene   | 7.165  | 96   | 247451   | 47.95  | ug/l    | 100      |
| 28) Bromochloromethane       | 7.513  | 49   | 162394   | 47.85  | ug/l    | 98       |
| 29) Tetrahydrofuran          | 7.531  | 42   | 135566   | 215.35 | ug/l    | 100      |
| 30) Chloroform               | 7.677  | 83   | 404966   | 47.75  | ug/l    | 95       |
| 31) Cyclohexane              | 7.958  | 56   | 323936   | 46.44  | ug/l    | 95       |
| 32) 1,1,1-Trichloroethane    | 7.872  | 97   | 322964   | 51.29  | ug/l    | 98       |
| 36) 1,1-Dichloropropene      | 8.079  | 75   | 334028   | 51.14  | ug/l    | 99       |
| 37) Ethyl Acetate            | 7.250  | 43   | 111874   | 44.27  | ug/l    | 99       |
| 38) Carbon Tetrachloride     | 8.067  | 117  | 303509   | 52.72  | ug/l    | 97       |
| 39) Methylcyclohexane        | 9.335  | 83   | 376076   | 52.04  | ug/l    | 97       |
| 40) Benzene                  | 8.323  | 78   | 897763   | 49.17  | ug/l    | 99       |

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 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 5/20/2021 6:00:14 PM

Quant Time: May 20 03:33:48 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W051921S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 19 09:25:10 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.482  | 41   | 65727m   | 47.63  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.396  | 62   | 260974   | 48.21  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.421  | 43   | 220041   | 46.69  | ug/l   | 100      |
| 44) Trichloroethene           | 9.091  | 130  | 244761   | 51.99  | ug/l   | 98       |
| 45) 1,2-Dichloropropane       | 9.372  | 63   | 215111   | 48.70  | ug/l   | 99       |
| 46) Dibromomethane            | 9.457  | 93   | 112300   | 46.83  | ug/l   | 97       |
| 47) Bromodichloromethane      | 9.646  | 83   | 293722   | 49.27  | ug/l   | 94       |
| 48) Methyl methacrylate       | 9.433  | 41   | 102156   | 47.20  | ug/l   | 100      |
| 49) 1,4-Dioxane               | 9.463  | 88   | 26359    | 964.24 | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone      | 10.207 | 43   | 552508   | 226.26 | ug/l   | 100      |
| 52) Toluene                   | 10.390 | 92   | 584070   | 50.45  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.610 | 75   | 296799   | 50.62  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.073 | 75   | 352878   | 50.53  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.786 | 97   | 157230   | 47.44  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.646 | 69   | 202566   | 48.66  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.933 | 76   | 281829   | 47.54  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.921  | 63   | 572084   | 265.71 | ug/l   | 99       |
| 59) 2-Hexanone                | 10.969 | 43   | 388126   | 239.14 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.128 | 129  | 185253   | 49.95  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.237 | 107  | 152155   | 47.73  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.859 | 164  | 198054   | 52.46  | ug/l   | 89       |
| 65) Chlorobenzene             | 11.658 | 112  | 594495   | 50.28  | ug/l   | 100      |
| 66) 1,1,1,2-Tetrachloroethane | 11.731 | 131  | 206312   | 51.13  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.731 | 91   | 1130172  | 51.68  | ug/l   | 96       |
| 68) m/p-Xylenes               | 11.835 | 106  | 869914   | 105.87 | ug/l   | 100      |
| 69) o-Xylene                  | 12.164 | 106  | 403219   | 52.63  | ug/l   | 99       |
| 70) Styrene                   | 12.182 | 104  | 695203   | 53.46  | ug/l   | 99       |
| 71) Bromoform                 | 12.347 | 173  | 100660   | 49.70  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.463 | 105  | 1125253  | 50.56  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.274 | 43   | 217191   | 47.32  | ug/l   | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.713 | 83   | 181642   | 45.62  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.768 | 75   | 116756m  | 40.73  | ug/l   |          |
| 77) Bromobenzene              | 12.749 | 156  | 243131   | 49.56  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.804 | 91   | 1388273  | 51.03  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.890 | 91   | 777658   | 50.17  | ug/l   | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.944 | 105  | 950842   | 50.34  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.512 | 75   | 56995    | 48.46  | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 12.987 | 91   | 824681   | 50.12  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.207 | 119  | 834347   | 52.41  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.249 | 105  | 958119   | 51.10  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.383 | 105  | 1213618  | 51.40  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.499 | 119  | 1051673  | 51.42  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.499 | 146  | 497678   | 49.68  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.578 | 146  | 485846   | 49.19  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.822 | 91   | 1038455  | 51.63  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.091 | 117  | 163535   | 51.01  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.871 | 146  | 442991   | 49.99  | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.481 | 75   | 29559    | 46.50  | ug/l   | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.133 | 180  | 303823   | 51.20  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.225 | 225  | 172994   | 50.48  | ug/l   | 93       |
| 95) Naphthalene               | 15.365 | 128  | 544087   | 50.33  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.554 | 180  | 255042   | 49.64  | ug/l   | 97       |

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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
VSTDCCC050

Manual Integrations  
APPROVED

MMDadoda  
5/20/2021 6:00:14 PM

Quant Time: May 20 03:33:48 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W051921S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 19 09:25:10 2021  
Response via : Initial Calibration

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

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

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