

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021021\  
 Data File : VD068339.D  
 Acq On : 10 Feb 2021 11:30  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 2/11/2021 1:16:53 PM

Quant Time: Feb 11 00:09:53 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 13:19:08 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc   | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|--------|--------|----------|
| -----                        |                |      |            |        |        |          |
| Internal Standards           |                |      |            |        |        |          |
| 1) Pentafluorobenzene        | 7.985          | 168  | 374800     | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 639000     | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.644         | 117  | 570025     | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.573         | 152  | 259887     | 50.00  | ug/l   | 0.00     |
|                              |                |      |            |        |        |          |
| System Monitoring Compounds  |                |      |            |        |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 150350     | 41.93  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 83.86% |        |          |
| 35) Dibromofluoromethane     | 7.920          | 113  | 161866     | 45.82  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 91.64% |        |          |
| 50) Toluene-d8               | 10.344         | 98   | 585885     | 41.46  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 82.92% |        |          |
| 62) 4-Bromofluorobenzene     | 12.632         | 95   | 211415     | 41.55  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 83.10% |        |          |
|                              |                |      |            |        |        |          |
| Target Compounds             |                |      |            |        |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 188206     | 42.27  | ug/l   | 95       |
| 3) Chloromethane             | 2.209          | 50   | 222925     | 46.49  | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.350          | 62   | 275149     | 51.59  | ug/l   | 99       |
| 5) Bromomethane              | 2.774          | 94   | 180088     | 49.24  | ug/l   | 99       |
| 6) Chloroethane              | 2.926          | 64   | 173690     | 53.31  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.279          | 101  | 340582     | 48.65  | ug/l   | 97       |
| 8) Diethyl Ether             | 3.715          | 74   | 94544      | 45.87  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.103          | 101  | 205611     | 50.36  | ug/l   | 92       |
| 10) Methyl Iodide            | 4.309          | 142  | 204325     | 44.96  | ug/l   | 94       |
| 11) Tert butyl alcohol       | 5.226          | 59   | 46723      | 108.29 | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 196326     | 47.81  | ug/l   | 94       |
| 13) Acrolein                 | 3.926          | 56   | 58168      | 205.87 | ug/l   | 100      |
| 14) Allyl chloride           | 4.720          | 41   | 265267     | 44.41  | ug/l   | 97       |
| 15) Acrylonitrile            | 5.426          | 53   | 195166     | 239.05 | ug/l   | 99       |
| 16) Acetone                  | 4.162          | 43   | 181167     | 282.99 | ug/l   | 100      |
| 17) Carbon Disulfide         | 4.415          | 76   | 575985     | 43.55  | ug/l   | 99       |
| 18) Methyl Acetate           | 4.720          | 43   | 83821      | 50.45  | ug/l   | 94       |
| 19) Methyl tert-butyl Ether  | 5.479          | 73   | 421631     | 44.41  | ug/l # | 89       |
| 20) Methylene Chloride       | 4.968          | 84   | 224152     | 50.18  | ug/l   | 92       |
| 21) trans-1,2-Dichloroethene | 5.479          | 96   | 226909     | 48.13  | ug/l   | 92       |
| 22) Diisopropyl ether        | 6.367          | 45   | 570706     | 47.35  | ug/l # | 97       |
| 23) Vinyl Acetate            | 6.309          | 43   | 1466123    | 228.21 | ug/l   | 97       |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 390363     | 49.99  | ug/l   | 98       |
| 25) 2-Butanone               | 7.214          | 43   | 220054     | 228.29 | ug/l   | 94       |
| 26) 2,2-Dichloropropane      | 7.214          | 77   | 340021     | 46.02  | ug/l   | 99       |
| 27) cis-1,2-Dichloroethene   | 7.214          | 96   | 252415     | 49.32  | ug/l   | 92       |
| 28) Bromochloromethane       | 7.550          | 49   | 123732     | 46.51  | ug/l # | 80       |
| 29) Tetrahydrofuran          | 7.562          | 42   | 139041     | 222.51 | ug/l   | 95       |
| 30) Chloroform               | 7.714          | 83   | 393262     | 49.84  | ug/l   | 100      |
| 31) Cyclohexane              | 7.985          | 56   | 348018     | 44.83  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.909          | 97   | 354522     | 49.85  | ug/l   | 95       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 321963     | 49.96  | ug/l   | 97       |
| 37) Ethyl Acetate            | 7.297          | 43   | 102514     | 44.97  | ug/l # | 95       |
| 38) Carbon Tetrachloride     | 8.103          | 117  | 308045     | 51.07  | ug/l   | 97       |
| 39) Methylcyclohexane        | 9.356          | 83   | 404647     | 48.03  | ug/l   | 99       |
| 40) Benzene                  | 8.350          | 78   | 899002     | 49.90  | ug/l   | 96       |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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MMDadoda  
 2/11/2021 1:16:53 PM

Quant Time: Feb 11 00:09:53 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 13:19:08 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.532  | 41   | 58121    | 42.25  | ug/l   | 98       |
| 42) 1,2-Dichloroethane        | 8.426  | 62   | 231260   | 48.04  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.456  | 43   | 193482   | 40.73  | ug/l   | 98       |
| 44) Trichloroethene           | 9.114  | 130  | 242417   | 48.99  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.391  | 63   | 218191   | 49.45  | ug/l   | 97       |
| 46) Dibromomethane            | 9.479  | 93   | 110614   | 49.48  | ug/l   | 90       |
| 47) Bromodichloromethane      | 9.661  | 83   | 301397   | 49.96  | ug/l   | 97       |
| 48) Methyl methacrylate       | 9.456  | 41   | 101035   | 42.73  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.467  | 88   | 23507    | 897.24 | ug/l # | 82       |
| 51) 4-Methyl-2-Pentanone      | 10.232 | 43   | 496946   | 225.05 | ug/l   | 100      |
| 52) Toluene                   | 10.403 | 92   | 576574   | 49.12  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 289811   | 47.47  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.091 | 75   | 344061   | 47.34  | ug/l   | 99       |
| 55) 1,1,2-Trichloroethane     | 10.803 | 97   | 158737   | 50.10  | ug/l   | 94       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 188369   | 44.63  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 10.950 | 76   | 267862   | 47.91  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63   | 489018   | 251.08 | ug/l   | 91       |
| 59) 2-Hexanone                | 10.985 | 43   | 359602   | 234.94 | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.138 | 129  | 191437   | 48.19  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.250 | 107  | 148562   | 47.52  | ug/l   | 98       |
| 64) Tetrachloroethene         | 10.879 | 164  | 192149   | 47.83  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.673 | 112  | 603063   | 49.79  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.744 | 131  | 207519   | 48.71  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.744 | 91   | 1117668  | 49.84  | ug/l   | 97       |
| 68) m/p-Xylenes               | 11.855 | 106  | 836010   | 98.75  | ug/l   | 98       |
| 69) o-Xylene                  | 12.179 | 106  | 388087   | 49.36  | ug/l   | 96       |
| 70) Styrene                   | 12.191 | 104  | 654966   | 48.80  | ug/l   | 99       |
| 71) Bromoform                 | 12.361 | 173  | 102040   | 47.25  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.479 | 105  | 1081428  | 50.01  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.291 | 43   | 185907   | 41.36  | ug/l   | 95       |
| 75) 1,1,2,2-Tetrachloroethane | 12.732 | 83   | 168878   | 49.10  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.785 | 75   | 118591m  | 47.19  | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 222092   | 47.90  | ug/l   | 88       |
| 78) n-propylbenzene           | 12.820 | 91   | 1281780  | 50.10  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.908 | 91   | 693587   | 48.28  | ug/l   | 96       |
| 80) 1,3,5-Trimethylbenzene    | 12.961 | 105  | 877066   | 48.70  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 53431    | 43.03  | ug/l   | 93       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 725206   | 48.55  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.220 | 119  | 762944   | 49.99  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 859434   | 48.08  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.402 | 105  | 1084498  | 50.80  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 970813   | 50.00  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 443096   | 49.71  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.591 | 146  | 428117   | 48.75  | ug/l   | 99       |
| 89) n-Butylbenzene            | 13.838 | 91   | 960396   | 51.54  | ug/l   | 97       |
| 90) Hexachloroethane          | 14.108 | 117  | 176096   | 50.21  | ug/l   | 87       |
| 91) 1,2-Dichlorobenzene       | 13.885 | 146  | 375729   | 49.21  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75   | 24722    | 43.92  | ug/l   | 86       |
| 93) 1,2,4-Trichlorobenzene    | 15.161 | 180  | 250778   | 47.91  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.261 | 225  | 142423   | 49.08  | ug/l   | 99       |
| 95) Naphthalene               | 15.396 | 128  | 458065   | 46.67  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.591 | 180  | 210749   | 47.73  | ug/l   | 99       |

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2/11/2021 1:16:53 PM

Quant Time: Feb 11 00:09:53 2021  
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Quant Title : SW846 8260  
QLast Update : Tue Jan 19 13:19:08 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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