

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021221\  
 Data File : VD068354.D  
 Acq On : 12 Feb 2021 12:04  
 Operator : VA/SY  
 Sample : VSTDICCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 2/15/2021 10:25:24 AM

Quant Time: Feb 12 12:28:17 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 12 12:24:03 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response           | Conc   | Units | Dev(Min) |
|------------------------------|----------------|------|--------------------|--------|-------|----------|
| -----                        |                |      |                    |        |       |          |
| Internal Standards           |                |      |                    |        |       |          |
| 1) Pentafluorobenzene        | 7.985          | 168  | 454895             | 50.00  | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.867          | 114  | 773717             | 50.00  | ug/l  | 0.00     |
| 63) Chlorobenzene-d5         | 11.649         | 117  | 699145             | 50.00  | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.573         | 152  | 309907             | 50.00  | ug/l  | 0.00     |
|                              |                |      |                    |        |       |          |
| System Monitoring Compounds  |                |      |                    |        |       |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 234408             | 52.67  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = 105.34% |        |       |          |
| 35) Dibromofluoromethane     | 7.920          | 113  | 237814             | 54.32  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = 108.64% |        |       |          |
| 50) Toluene-d8               | 10.344         | 98   | 969121             | 54.65  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = 109.30% |        |       |          |
| 62) 4-Bromofluorobenzene     | 12.632         | 95   | 306312             | 49.34  | ug/l  | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = 98.68%  |        |       |          |
|                              |                |      |                    |        |       |          |
| Target Compounds             |                |      |                    |        |       | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.991          | 85   | 184946             | 35.98  | ug/l  | 97       |
| 3) Chloromethane             | 2.209          | 50   | 221760             | 39.40  | ug/l  | 94       |
| 4) Vinyl Chloride            | 2.350          | 62   | 271810             | 43.18  | ug/l  | 99       |
| 5) Bromomethane              | 2.773          | 94   | 185799             | 42.86  | ug/l  | 98       |
| 6) Chloroethane              | 2.926          | 64   | 179846             | 46.30  | ug/l  | 94       |
| 7) Trichlorofluoromethane    | 3.273          | 101  | 337126             | 41.07  | ug/l  | 95       |
| 8) Diethyl Ether             | 3.715          | 74   | 102159             | 42.14  | ug/l  | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.109          | 101  | 205357             | 42.68  | ug/l  | 93       |
| 10) Methyl Iodide            | 4.309          | 142  | 206701             | 45.54  | ug/l  | 95       |
| 11) Tert butyl alcohol       | 5.226          | 59   | 54914              | 97.19  | ug/l  | 98       |
| 12) 1,1-Dichloroethene       | 4.073          | 96   | 201468             | 41.85  | ug/l  | 98       |
| 13) Acrolein                 | 3.920          | 56   | 71740              | 212.78 | ug/l  | 98       |
| 14) Allyl chloride           | 4.720          | 41   | 266527             | 38.64  | ug/l  | 98       |
| 15) Acrylonitrile            | 5.426          | 53   | 221617             | 229.54 | ug/l  | 98       |
| 16) Acetone                  | 4.162          | 43   | 177455             | 233.03 | ug/l  | 93       |
| 17) Carbon Disulfide         | 4.415          | 76   | 563899             | 37.05  | ug/l  | 99       |
| 18) Methyl Acetate           | 4.726          | 43   | 91989              | 46.44  | ug/l  | 94       |
| 19) Methyl tert-butyl Ether  | 5.485          | 73   | 467008             | 42.10  | ug/l  | 92       |
| 20) Methylene Chloride       | 4.973          | 84   | 244205             | 40.00  | ug/l  | 89       |
| 21) trans-1,2-Dichloroethene | 5.479          | 96   | 232989             | 42.05  | ug/l  | 92       |
| 22) Diisopropyl ether        | 6.367          | 45   | 592740             | 42.07  | ug/l  | 93       |
| 23) Vinyl Acetate            | 6.314          | 43   | 1584987            | 211.92 | ug/l  | 97       |
| 24) 1,1-Dichloroethane       | 6.267          | 63   | 406449             | 44.08  | ug/l  | 99       |
| 25) 2-Butanone               | 7.220          | 43   | 243310             | 214.41 | ug/l  | 100      |
| 26) 2,2-Dichloropropane      | 7.214          | 77   | 341122             | 39.66  | ug/l  | 99       |
| 27) cis-1,2-Dichloroethene   | 7.214          | 96   | 265321             | 43.94  | ug/l  | 94       |
| 28) Bromochloromethane       | 7.556          | 49   | 172964             | 52.30  | ug/l  | 82       |
| 29) Tetrahydrofuran          | 7.567          | 42   | 154164             | 210.71 | ug/l  | 98       |
| 30) Chloroform               | 7.714          | 83   | 417502             | 44.60  | ug/l  | 97       |
| 31) Cyclohexane              | 7.991          | 56   | 334851             | 37.17  | ug/l  | 97       |
| 32) 1,1,1-Trichloroethane    | 7.909          | 97   | 363659             | 43.38  | ug/l  | 97       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 315157             | 41.73  | ug/l  | 98       |
| 37) Ethyl Acetate            | 7.297          | 43   | 112892             | 42.30  | ug/l  | 96       |
| 38) Carbon Tetrachloride     | 8.097          | 117  | 309318             | 43.64  | ug/l  | 100      |
| 39) Methylcyclohexane        | 9.355          | 83   | 391125             | 40.03  | ug/l  | 99       |
| 40) Benzene                  | 8.356          | 78   | 926489             | 43.71  | ug/l  | 95       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021221\  
 Data File : VD068354.D  
 Acq On : 12 Feb 2021 12:04  
 Operator : VA/SY  
 Sample : VSTDICCC050  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VSTDICCC050

Manual Integrations  
 APPROVED

MMDadoda  
 2/15/2021 10:25:24 AM

Quant Time: Feb 12 12:28:17 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021221S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 12 12:24:03 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 41) Methacrylonitrile         | 7.526  | 41   | 69365m   | 43.40  | ug/l   |          |
| 42) 1,2-Dichloroethane        | 8.432  | 62   | 250287   | 44.16  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.456  | 43   | 220884   | 40.13  | ug/l   | 96       |
| 44) Trichloroethene           | 9.114  | 130  | 253714   | 43.63  | ug/l   | 97       |
| 45) 1,2-Dichloropropane       | 9.391  | 63   | 225939   | 43.56  | ug/l   | 98       |
| 46) Dibromomethane            | 9.479  | 93   | 122507   | 46.32  | ug/l   | 93       |
| 47) Bromodichloromethane      | 9.667  | 83   | 327954   | 45.98  | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.461  | 41   | 101441   | 37.60  | ug/l   | 89       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 29612    | 947.34 | ug/l   | 91       |
| 51) 4-Methyl-2-Pentanone      | 10.232 | 43   | 565749   | 218.66 | ug/l   | 97       |
| 52) Toluene                   | 10.408 | 92   | 593724   | 43.07  | ug/l   | 95       |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 303927   | 42.63  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.091 | 75   | 361826   | 42.51  | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.802 | 97   | 172449   | 45.95  | ug/l   | 90       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 212292   | 42.98  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.950 | 76   | 298401   | 45.23  | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 9.944  | 63   | 560700   | 237.91 | ug/l   | 93       |
| 59) 2-Hexanone                | 10.985 | 43   | 381224   | 212.83 | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.144 | 129  | 212301   | 45.21  | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.249 | 107  | 166645   | 45.16  | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.879 | 164  | 198491   | 41.59  | ug/l   | 95       |
| 65) Chlorobenzene             | 11.673 | 112  | 637037   | 44.03  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.744 | 131  | 226976   | 44.69  | ug/l   | 98       |
| 67) Ethyl Benzene             | 11.744 | 91   | 1160876  | 43.46  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.855 | 106  | 867099   | 86.08  | ug/l   | 98       |
| 69) o-Xylene                  | 12.185 | 106  | 405725   | 43.32  | ug/l   | 96       |
| 70) Styrene                   | 12.197 | 104  | 701218   | 43.90  | ug/l   | 99       |
| 71) Bromoform                 | 12.361 | 173  | 117455   | 45.40  | ug/l # | 99       |
| 73) Isopropylbenzene          | 12.479 | 105  | 1112751  | 44.29  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.291 | 43   | 203835   | 39.77  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.732 | 83   | 190717   | 47.32  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.785 | 75   | 141517m  | 48.80  | ug/l   |          |
| 77) Bromobenzene              | 12.761 | 156  | 243141   | 45.09  | ug/l   | 90       |
| 78) n-propylbenzene           | 12.820 | 91   | 1315483  | 44.21  | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 12.908 | 91   | 727721   | 43.65  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.961 | 105  | 914333   | 43.75  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 58847    | 41.33  | ug/l   | 94       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 766176   | 44.13  | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.220 | 119  | 791621   | 44.67  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.267 | 105  | 906478   | 43.69  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.402 | 105  | 1122293  | 45.05  | ug/l   | 98       |
| 86) p-Isopropyltoluene        | 13.514 | 119  | 1001148  | 44.33  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.514 | 146  | 472764   | 45.42  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.596 | 146  | 460847   | 45.04  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.843 | 91   | 962562   | 44.42  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.108 | 117  | 179576   | 44.27  | ug/l   | 90       |
| 91) 1,2-Dichlorobenzene       | 13.885 | 146  | 412124   | 46.25  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.502 | 75   | 28872    | 44.21  | ug/l   | 84       |
| 93) 1,2,4-Trichlorobenzene    | 15.161 | 180  | 274290   | 45.10  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.267 | 225  | 150971   | 44.67  | ug/l   | 99       |
| 95) Naphthalene               | 15.396 | 128  | 516604   | 45.21  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.590 | 180  | 237800   | 46.13  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021221\  
Data File : VD068354.D  
Acq On : 12 Feb 2021 12:04  
Operator : VA/SY  
Sample : VSTDICCC050  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

MMDadoda  
2/15/2021 10:25:24 AM

Quant Time: Feb 12 12:28:17 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021221S.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 12 12:24:03 2021  
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD021221\  
Data File : VD068354.D  
Acq On : 12 Feb 2021 12:04  
Operator : VA/SY  
Sample : VSTDICCC050  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VSTDICCC050

Manual Integrations  
APPROVED

MMDadoda  
2/15/2021 10:25:24 AM

Quant Time: Feb 12 12:28:17 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D021221S.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 12 12:24:03 2021  
Response via : Initial Calibration

