

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD060821\  
 Data File : VD069386.D  
 Acq On : 08 Jun 2021 12:27  
 Operator : VA/SY  
 Sample : VD0608SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0608SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 6/9/2021 4:24:42 PM

Quant Time: Jun 09 02:08:20 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060121S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 02 02:17:36 2021  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|---------|--------|----------|
| -----                        |                |      |            |         |        |          |
| Internal Standards           |                |      |            |         |        |          |
| 1) Pentafluorobenzene        | 7.979          | 168  | 393795     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.861          | 114  | 659924     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.644         | 117  | 631516     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.567         | 152  | 314778     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.332          | 65   | 188067     | 49.772  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 50 - 163 |      | Recovery = | 99.540% |        |          |
| 35) Dibromofluoromethane     | 7.914          | 113  | 200342     | 48.343  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 54 - 147 |      | Recovery = | 96.680% |        |          |
| 50) Toluene-d8               | 10.338         | 98   | 706553     | 46.886  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 49 - 140 |      | Recovery = | 93.780% |        |          |
| 62) 4-Bromofluorobenzene     | 12.626         | 95   | 241619     | 48.931  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 25 - 144 |      | Recovery = | 97.860% |        |          |
| Target Compounds             |                |      |            |         |        |          |
|                              |                |      |            |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 1.985          | 85   | 76698      | 18.503  | ug/l   | 100      |
| 3) Chloromethane             | 2.209          | 50   | 74257      | 23.730  | ug/l   | 94       |
| 4) Vinyl Chloride            | 2.344          | 62   | 74909      | 23.497  | ug/l   | 99       |
| 5) Bromomethane              | 2.750          | 94   | 75658      | 32.530  | ug/l   | 90       |
| 6) Chloroethane              | 2.909          | 64   | 66723      | 36.678  | ug/l   | 94       |
| 7) Trichlorofluoromethane    | 3.268          | 101  | 152339     | 20.544  | ug/l   | 95       |
| 8) Diethyl Ether             | 3.715          | 74   | 39459      | 21.660  | ug/l   | 100      |
| 9) 1,1,2-Trichlorotrifluo... | 4.097          | 101  | 89182      | 20.424  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.297          | 142  | 73030      | 18.068  | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.232          | 59   | 29746      | 114.189 | ug/l   | 97       |
| 12) 1,1-Dichloroethene       | 4.067          | 96   | 77882      | 19.718  | ug/l   | 95       |
| 13) Acrolein                 | 3.920          | 56   | 18019      | 83.678  | ug/l   | 93       |
| 14) Allyl chloride           | 4.709          | 41   | 94086      | 19.743  | ug/l   | 100      |
| 15) Acrylonitrile            | 5.420          | 53   | 78031      | 109.874 | ug/l   | 98       |
| 16) Acetone                  | 4.156          | 43   | 62739      | 95.148  | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.403          | 76   | 250914     | 19.211  | ug/l   | 100      |
| 18) Methyl Acetate           | 4.720          | 43   | 39818      | 22.315  | ug/l   | 91       |
| 19) Methyl tert-butyl Ether  | 5.473          | 73   | 155388     | 21.421  | ug/l   | 99       |
| 20) Methylene Chloride       | 4.962          | 84   | 120970     | 21.174  | ug/l   | 95       |
| 21) trans-1,2-Dichloroethene | 5.467          | 96   | 93673      | 20.025  | ug/l   | 93       |
| 22) Diisopropyl ether        | 6.367          | 45   | 199755     | 21.824  | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.309          | 43   | 539379     | 99.556  | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.261          | 63   | 160787     | 20.993  | ug/l   | 97       |
| 25) 2-Butanone               | 7.214          | 43   | 94687      | 109.129 | ug/l   | 98       |
| 26) 2,2-Dichloropropane      | 7.203          | 77   | 136485     | 19.338  | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.208          | 96   | 105882     | 21.370  | ug/l   | 96       |
| 28) Bromochloromethane       | 7.550          | 49   | 55030      | 20.723  | ug/l   | 97       |
| 29) Tetrahydrofuran          | 7.561          | 42   | 56195      | 112.681 | ug/l   | 97       |
| 30) Chloroform               | 7.708          | 83   | 181867     | 21.720  | ug/l   | 96       |
| 31) Cyclohexane              | 7.979          | 56   | 115843     | 19.294  | ug/l   | 93       |
| 32) 1,1,1-Trichloroethane    | 7.903          | 97   | 156468     | 20.707  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.114          | 75   | 126979     | 19.796  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.291          | 43   | 47006      | 21.582  | ug/l # | 94       |
| 38) Carbon Tetrachloride     | 8.091          | 117  | 136689     | 19.737  | ug/l   | 87       |
| 39) Methylcyclohexane        | 9.355          | 83   | 118235     | 18.019  | ug/l   | 99       |
| 40) Benzene                  | 8.350          | 78   | 379588     | 20.375  | ug/l   | 99       |

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 Sample : VD0608SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD0608SBS01

Manual Integrations  
 APPROVED

MMDadoda  
 6/9/2021 4:24:42 PM

Quant Time: Jun 09 02:08:20 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060121S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 02 02:17:36 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.520  | 41   | 21138    | 19.990  | ug/l   | 92       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 106330   | 21.387  | ug/l   | 99       |
| 43) Isopropyl Acetate         | 8.450  | 43   | 83620    | 21.095  | ug/l   | 98       |
| 44) Trichloroethene           | 9.108  | 130  | 104550   | 20.655  | ug/l   | 95       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 92680    | 20.895  | ug/l   | 93       |
| 46) Dibromomethane            | 9.473  | 93   | 56242    | 22.184  | ug/l   | 99       |
| 47) Bromodichloromethane      | 9.661  | 83   | 140182   | 21.443  | ug/l   | 95       |
| 48) Methyl methacrylate       | 9.455  | 41   | 39680    | 21.562  | ug/l   | 95       |
| 49) 1,4-Dioxane               | 9.461  | 88   | 11590    | 465.395 | ug/l   | 93       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 223907   | 109.365 | ug/l   | 99       |
| 52) Toluene                   | 10.402 | 92   | 246460   | 20.960  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene     | 10.620 | 75   | 120275   | 20.601  | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 143812   | 20.660  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane     | 10.802 | 97   | 76634    | 21.791  | ug/l   | 95       |
| 56) Ethyl methacrylate        | 10.661 | 69   | 74829    | 20.311  | ug/l   | 98       |
| 57) 1,3-Dichloropropane       | 10.944 | 76   | 122184   | 21.428  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 192409   | 116.847 | ug/l   | 100      |
| 59) 2-Hexanone                | 10.985 | 43   | 148988   | 108.864 | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.138 | 129  | 97017    | 21.894  | ug/l   | 98       |
| 61) 1,2-Dibromoethane         | 11.244 | 107  | 72469    | 21.604  | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.879 | 164  | 89111    | 20.272  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.667 | 112  | 265897   | 20.604  | ug/l   | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 102940   | 21.289  | ug/l   | 100      |
| 67) Ethyl Benzene             | 11.744 | 91   | 429383   | 19.366  | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.849 | 106  | 350496   | 40.343  | ug/l   | 99       |
| 69) o-Xylene                  | 12.179 | 106  | 155411   | 20.225  | ug/l   | 99       |
| 70) Styrene                   | 12.191 | 104  | 280070   | 20.997  | ug/l   | 99       |
| 71) Bromoform                 | 12.355 | 173  | 54067    | 21.559  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.479 | 105  | 414710   | 19.250  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.285 | 43   | 77130    | 20.274  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.726 | 83   | 85510    | 21.262  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.779 | 75   | 63203m   | 23.110  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 109540   | 21.114  | ug/l   | 98       |
| 78) n-propylbenzene           | 12.814 | 91   | 513814   | 19.447  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 12.902 | 91   | 302730   | 20.157  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 12.955 | 105  | 359457   | 19.702  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.526 | 75   | 25525    | 20.682  | ug/l   | 99       |
| 82) 4-Chlorotoluene           | 13.002 | 91   | 316172   | 20.010  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.220 | 119  | 296262   | 19.389  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 363783   | 20.048  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.396 | 105  | 438133   | 19.427  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 374958   | 19.015  | ug/l   | 100      |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 212622   | 20.251  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.591 | 146  | 211290   | 20.192  | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.838 | 91   | 340834   | 18.474  | ug/l   | 100      |
| 90) Hexachloroethane          | 14.102 | 117  | 73132    | 19.523  | ug/l   | 99       |
| 91) 1,2-Dichlorobenzene       | 13.885 | 146  | 186379   | 20.601  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 12580    | 19.636  | ug/l   | 98       |
| 93) 1,2,4-Trichlorobenzene    | 15.155 | 180  | 106666   | 19.650  | ug/l   | 99       |
| 94) Hexachlorobutadiene       | 15.261 | 225  | 64250    | 18.852  | ug/l   | 98       |
| 95) Naphthalene               | 15.390 | 128  | 179987   | 18.951  | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.585 | 180  | 96203    | 20.136  | ug/l   | 99       |

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Sample : VD0608SBSD01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD0608SBSD01

Manual Integrations  
APPROVED

MMDadoda  
6/9/2021 4:24:42 PM

Quant Time: Jun 09 02:08:20 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D060121S.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 02 02:17:36 2021  
Response via : Initial Calibration

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

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

