

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122821\  
 Data File : VD071496.D  
 Acq On : 28 Dec 2021 12:01  
 Operator : VA/SY  
 Sample : VD1228SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1228SBS01

Quant Time: Dec 28 15:06:25 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D12221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 23 08:20:24 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.979  | 168  | 346553   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.861  | 114  | 588495   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.638 | 117  | 546452   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.567 | 152  | 262388   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.332  | 65    | 253107   | 54.993   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | = 109.980% |      |
| 35) Dibromofluoromethane    | 7.914  | 113   | 228854   | 57.862   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | = 115.720% |      |
| 50) Toluene-d8              | 10.338 | 98    | 836716   | 55.980   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | = 111.960% |      |
| 62) 4-Bromofluorobenzene    | 12.626 | 95    | 296460   | 55.817   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | = 111.640% |      |

|                              |       |     |        |         |        |     |
|------------------------------|-------|-----|--------|---------|--------|-----|
| Target Compounds             |       |     |        |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 1.991 | 85  | 70650  | 19.456  | ug/l   | 98  |
| 3) Chloromethane             | 2.215 | 50  | 89914  | 19.337  | ug/l   | 95  |
| 4) Vinyl Chloride            | 2.356 | 62  | 99035  | 17.773  | ug/l   | 98  |
| 5) Bromomethane              | 2.762 | 94  | 74408  | 19.088  | ug/l   | 98  |
| 6) Chloroethane              | 2.920 | 64  | 70589  | 19.089  | ug/l   | 92  |
| 7) Trichlorofluoromethane    | 3.279 | 101 | 141924 | 20.806  | ug/l   | 94  |
| 8) Diethyl Ether             | 3.714 | 74  | 42738  | 21.885  | ug/l   | 99  |
| 9) 1,1,2-Trichlorotrifluo... | 4.097 | 101 | 82210  | 20.715  | ug/l   | 95  |
| 10) Methyl Iodide            | 4.309 | 142 | 77127  | 19.984  | ug/l   | 96  |
| 11) Tert butyl alcohol       | 5.203 | 59  | 44178  | 100.395 | ug/l # | 71  |
| 12) 1,1-Dichloroethene       | 4.073 | 96  | 74989  | 20.770  | ug/l   | 84  |
| 13) Acrolein                 | 3.926 | 56  | 23580  | 106.057 | ug/l   | 94  |
| 14) Allyl chloride           | 4.720 | 41  | 139362 | 20.407  | ug/l # | 79  |
| 15) Acrylonitrile            | 5.414 | 53  | 104087 | 108.230 | ug/l   | 97  |
| 16) Acetone                  | 4.156 | 43  | 112662 | 97.454  | ug/l # | 86  |
| 17) Carbon Disulfide         | 4.420 | 76  | 212015 | 18.022  | ug/l   | 98  |
| 18) Methyl Acetate           | 4.714 | 43  | 77720  | 21.781  | ug/l   | 97  |
| 19) Methyl tert-butyl Ether  | 5.479 | 73  | 195438 | 20.969  | ug/l   | 100 |
| 20) Methylene Chloride       | 4.961 | 84  | 109508 | 21.135  | ug/l   | 91  |
| 21) trans-1,2-Dichloroethene | 5.467 | 96  | 85226  | 20.380  | ug/l   | 92  |
| 22) Diisopropyl ether        | 6.367 | 45  | 296797 | 21.349  | ug/l   | 95  |
| 23) Vinyl Acetate            | 6.303 | 43  | 731777 | 102.107 | ug/l   | 95  |
| 24) 1,1-Dichloroethane       | 6.261 | 63  | 170466 | 21.389  | ug/l   | 98  |
| 25) 2-Butanone               | 7.208 | 43  | 138117 | 100.023 | ug/l # | 87  |
| 26) 2,2-Dichloropropane      | 7.208 | 77  | 143238 | 21.873  | ug/l   | 97  |
| 27) cis-1,2-Dichloroethene   | 7.208 | 96  | 99986  | 21.616  | ug/l   | 94  |
| 28) Bromochloromethane       | 7.550 | 49  | 67550  | 20.683  | ug/l   | 89  |
| 29) Tetrahydrofuran          | 7.561 | 42  | 85696  | 103.362 | ug/l   | 93  |
| 30) Chloroform               | 7.708 | 83  | 174318 | 21.677  | ug/l   | 99  |
| 31) Cyclohexane              | 7.985 | 56  | 151057 | 19.320  | ug/l   | 90  |
| 32) 1,1,1-Trichloroethane    | 7.902 | 97  | 149775 | 21.000  | ug/l # | 92  |
| 36) 1,1-Dichloropropene      | 8.114 | 75  | 130613 | 20.670  | ug/l   | 97  |
| 37) Ethyl Acetate            | 7.291 | 43  | 57834  | 19.825  | ug/l   | 95  |
| 38) Carbon Tetrachloride     | 8.102 | 117 | 133299 | 21.382  | ug/l   | 99  |
| 39) Methylcyclohexane        | 9.355 | 83  | 147947 | 20.001  | ug/l   | 97  |
| 40) Benzene                  | 8.349 | 78  | 356722 | 21.000  | ug/l   | 99  |

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 Operator : VA/SY  
 Sample : VD1228SBS01  
 Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1228SBS01

Quant Time: Dec 28 15:06:25 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122221S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 23 08:20:24 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.514  | 41   | 38018    | 21.941  | ug/l # | 79       |
| 42) 1,2-Dichloroethane        | 8.420  | 62   | 116886   | 21.102  | ug/l   | 95       |
| 43) Isopropyl Acetate         | 8.449  | 43   | 118371   | 20.447  | ug/l # | 90       |
| 44) Trichloroethene           | 9.114  | 130  | 92398    | 20.873  | ug/l   | 99       |
| 45) 1,2-Dichloropropane       | 9.385  | 63   | 93784    | 21.276  | ug/l   | 95       |
| 46) Dibromomethane            | 9.467  | 93   | 51343    | 21.083  | ug/l   | 92       |
| 47) Bromodichloromethane      | 9.661  | 83   | 134126   | 21.693  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.449  | 41   | 58112    | 20.285  | ug/l # | 84       |
| 49) 1,4-Dioxane               | 9.455  | 88   | 11432    | 415.423 | ug/l # | 95       |
| 51) 4-Methyl-2-Pentanone      | 10.226 | 43   | 307890   | 101.087 | ug/l   | 90       |
| 52) Toluene                   | 10.396 | 92   | 228513   | 21.177  | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.614 | 75   | 125785   | 21.787  | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.085 | 75   | 145661   | 21.833  | ug/l # | 78       |
| 55) 1,1,2-Trichloroethane     | 10.796 | 97   | 67591    | 21.867  | ug/l   | 96       |
| 56) Ethyl methacrylate        | 10.655 | 69   | 86573    | 21.283  | ug/l # | 76       |
| 57) 1,3-Dichloropropane       | 10.943 | 76   | 123100   | 21.742  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.938  | 63   | 199194   | 102.231 | ug/l   | 98       |
| 59) 2-Hexanone                | 10.979 | 43   | 216835   | 100.716 | ug/l   | 89       |
| 60) Dibromochloromethane      | 11.132 | 129  | 86158    | 22.173  | ug/l   | 96       |
| 61) 1,2-Dibromoethane         | 11.238 | 107  | 64198    | 20.969  | ug/l   | 95       |
| 64) Tetrachloroethene         | 10.867 | 164  | 80838    | 21.288  | ug/l   | 89       |
| 65) Chlorobenzene             | 11.661 | 112  | 237243   | 21.165  | ug/l   | 97       |
| 66) 1,1,1,2-Tetrachloroethane | 11.738 | 131  | 87734    | 21.425  | ug/l   | 97       |
| 67) Ethyl Benzene             | 11.738 | 91   | 439057   | 21.047  | ug/l   | 100      |
| 68) m/p-Xylenes               | 11.849 | 106  | 339584   | 42.848  | ug/l   | 96       |
| 69) o-Xylene                  | 12.173 | 106  | 156892   | 21.657  | ug/l   | 98       |
| 70) Styrene                   | 12.190 | 104  | 265165   | 21.070  | ug/l   | 95       |
| 71) Bromoform                 | 12.355 | 173  | 47462    | 21.419  | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.473 | 105  | 426648   | 21.091  | ug/l   | 98       |
| 74) N-amyl acetate            | 12.279 | 43   | 109496   | 20.175  | ug/l # | 88       |
| 75) 1,1,2,2-Tetrachloroethane | 12.720 | 83   | 77044    | 21.066  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.773 | 75   | 57453m   | 18.428  | ug/l   |          |
| 77) Bromobenzene              | 12.755 | 156  | 93856    | 20.851  | ug/l   | 95       |
| 78) n-propylbenzene           | 12.814 | 91   | 533590   | 21.044  | ug/l   | 99       |
| 79) 2-Chlorotoluene           | 12.896 | 91   | 295307   | 20.840  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 12.949 | 105  | 353571   | 21.190  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.520 | 75   | 22617    | 20.498  | ug/l # | 78       |
| 82) 4-Chlorotoluene           | 12.996 | 91   | 313454   | 21.325  | ug/l   | 100      |
| 83) tert-Butylbenzene         | 13.214 | 119  | 311892   | 21.875  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.261 | 105  | 353043   | 21.379  | ug/l   | 98       |
| 85) sec-Butylbenzene          | 13.390 | 105  | 462705   | 21.287  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.508 | 119  | 380153   | 21.078  | ug/l   | 97       |
| 87) 1,3-Dichlorobenzene       | 13.508 | 146  | 188890   | 20.836  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene       | 13.585 | 146  | 188204   | 21.173  | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.832 | 91   | 370457   | 20.928  | ug/l   | 98       |
| 90) Hexachloroethane          | 14.096 | 117  | 70067    | 20.508  | ug/l   | 96       |
| 91) 1,2-Dichlorobenzene       | 13.879 | 146  | 162537   | 21.126  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.496 | 75   | 12100    | 19.078  | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 15.149 | 180  | 101165   | 21.577  | ug/l   | 97       |
| 94) Hexachlorobutadiene       | 15.249 | 225  | 53736    | 21.395  | ug/l   | 99       |
| 95) Naphthalene               | 15.384 | 128  | 181476   | 20.335  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.579 | 180  | 84563    | 20.853  | ug/l   | 96       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD122821\  
Data File : VD071496.D  
Acq On : 28 Dec 2021 12:01  
Operator : VA/SY  
Sample : VD1228SBSD01  
Misc : 5.00G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1228SBSD01

Quant Time: Dec 28 15:06:25 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D122221S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 23 08:20:24 2021  
Response via : Initial Calibration

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

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

