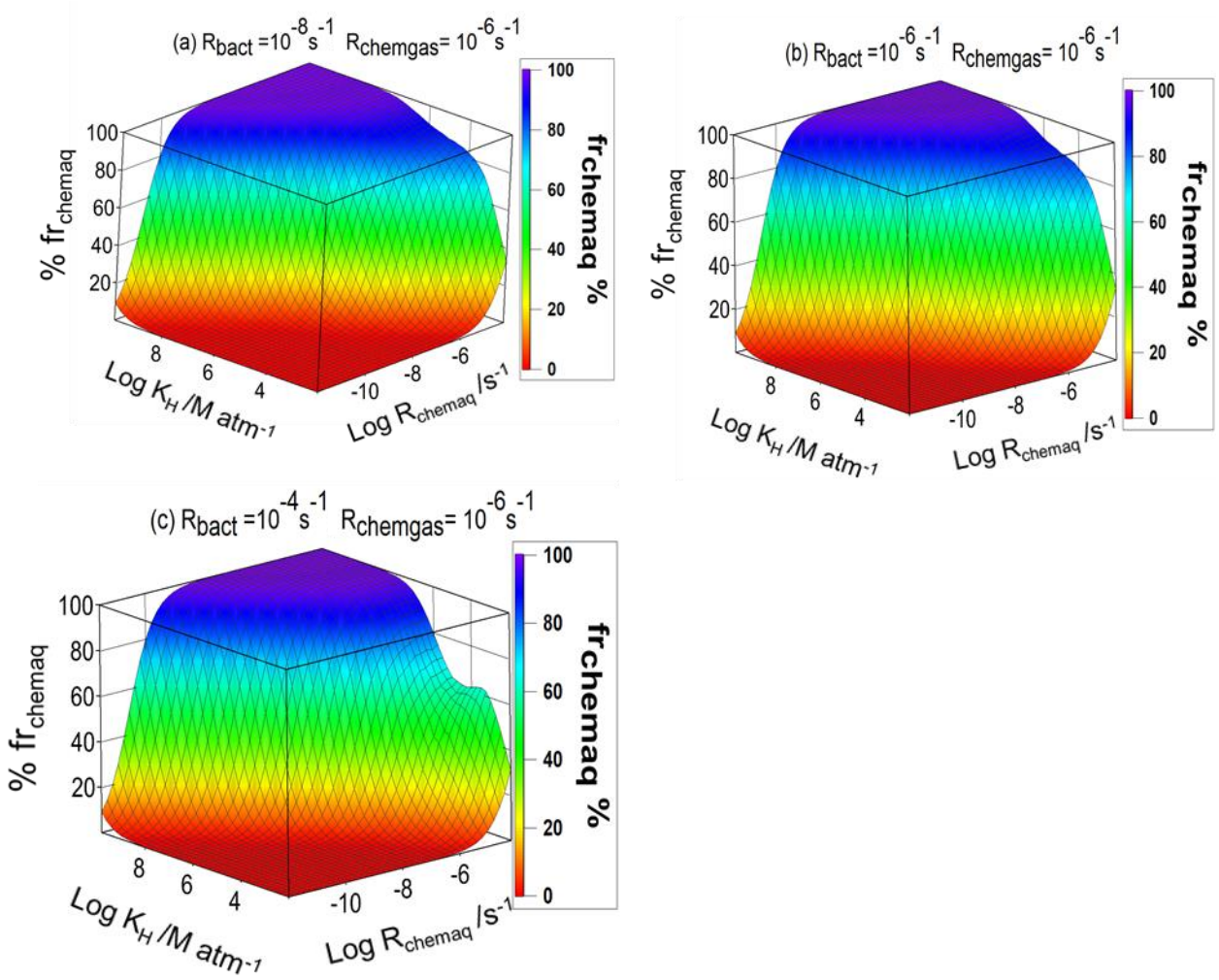

Figure S1. Relative contributions of the aqueous phase chemical processes to the total loss rate of organics (fr_{chemaq}) for three R_{bact} : (a) 10^{-8},(b) 10^{-6} and (c) 10^{-4} s^{-1} and $R_{chemgas}$ (10^{-6} s^{-1}) and the full ranges of R_{chemaq} and K_H as defined in ***Section 3.1***. These are complementary figures to Figure 2a-c.

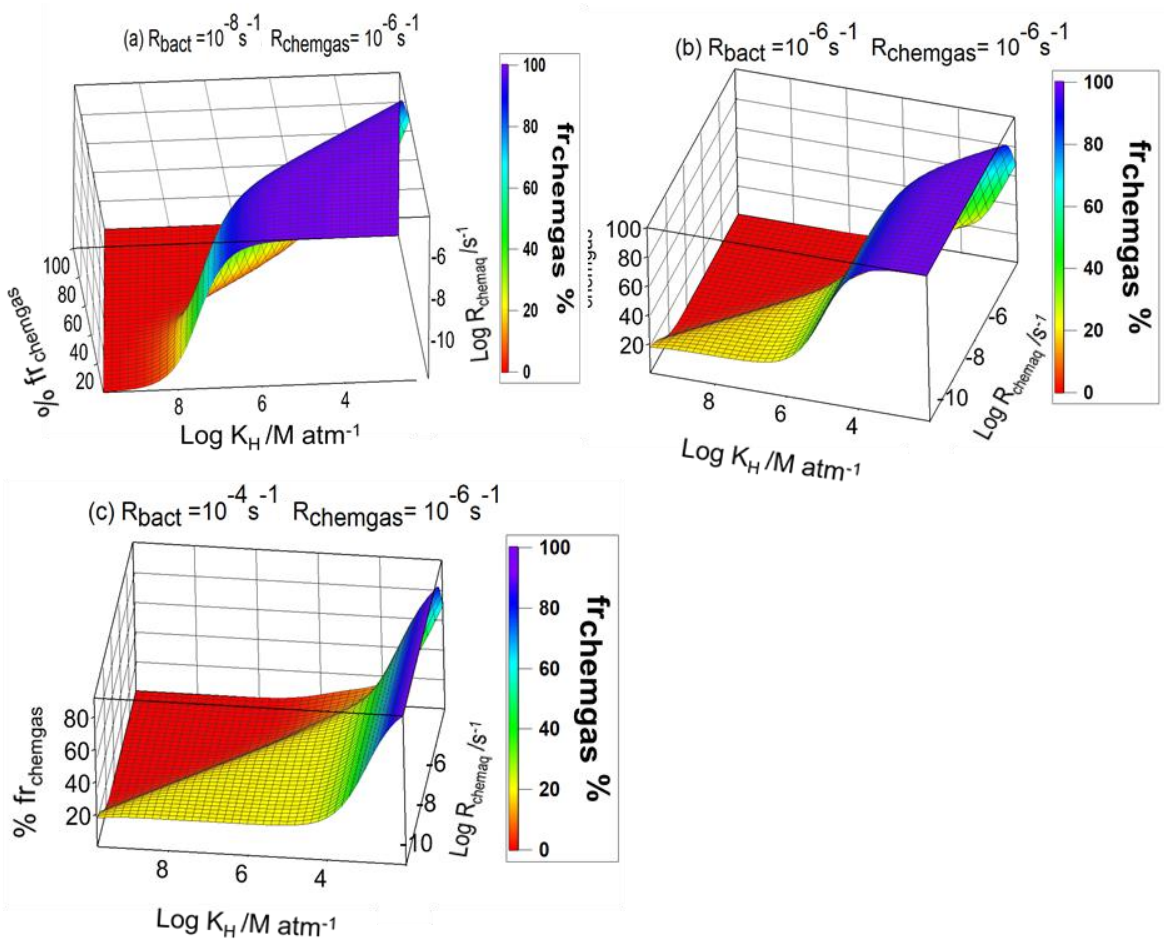

Figure S2: The relative contributions of the gas phase chemical process to the total loss rate of the organics ($fr_{chemgas}$) for three R_{bact} : (a) 10^{-8},(b) 10^{-6} and (c) 10^{-4} s^{-1} and $R_{chemgas}$ (10^{-6} s^{-1}) and the full ranges of R_{chemaq} and K_H as defined in Section 3.1. These are complementary figures to ***Figure 2a-c***.

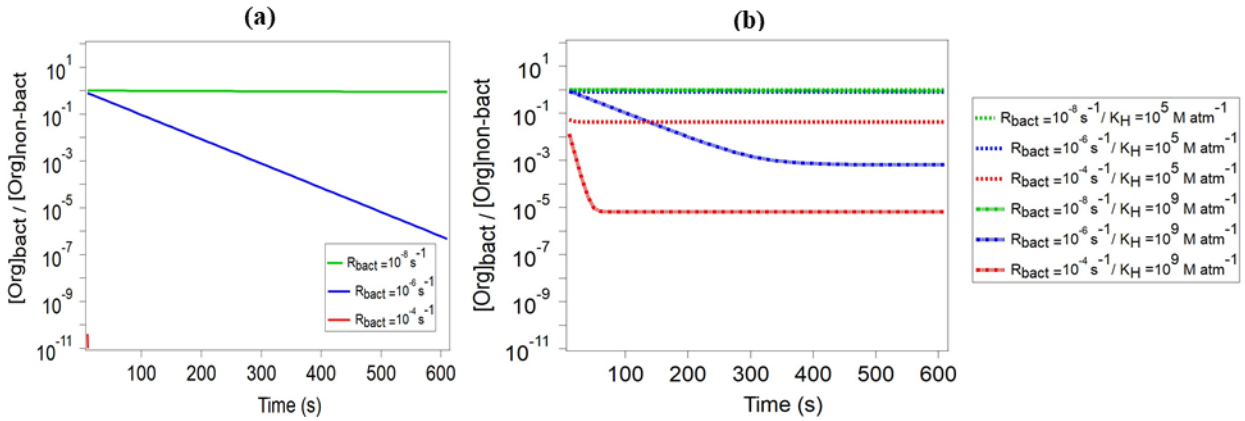

Figure S3: Concentration ratio of the organic compound in bacteria-free ($[Org]_{non\text{-}bact}$) and bacteria-containing droplets ($[Org]_{bact}$) of the same size (20µm diameter) for (a) NVOC and (b) VOC . Results are shown for R_{bact} = 10^{-8} s^{-1}, 10^{-6} $s^{-1}$and 10^{-4} s^{-1} , R_{chemaq}=10^{-11} s^{-1}, $R_{chemgas}$=10^{-6} s^{-1}. Panel (b) shows in addition results for VOC at K_H=10^5 and 10^9 M atm^{-1}.

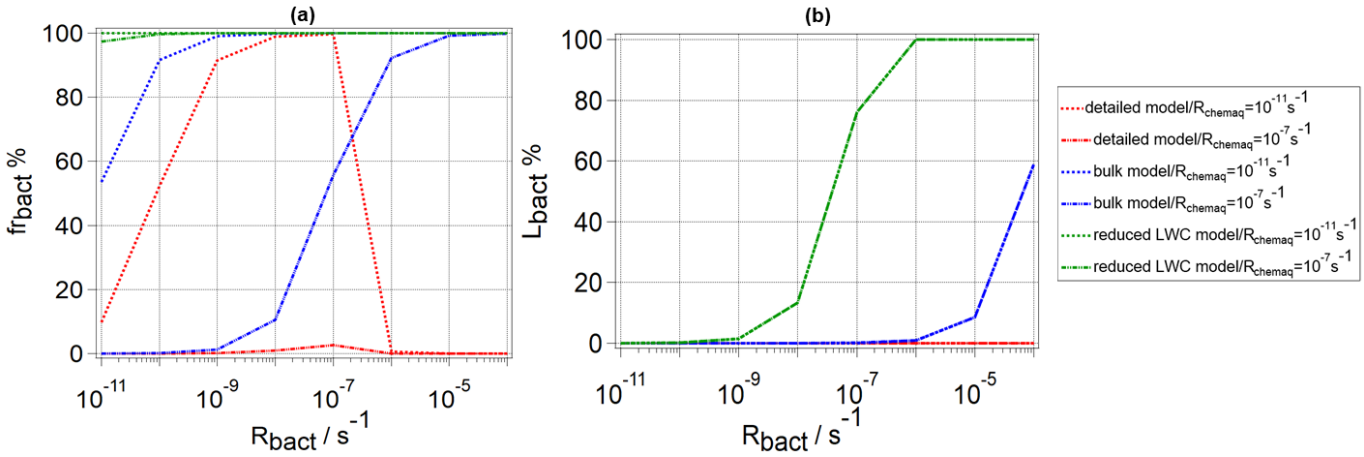

Figure S4: Comparison of (a) fr_{bact}, (b) L_{bact} for NVOC for three different approach : detailed model (red line), bulk approach (blue line) and low LWC model (green line) for different R_{bact}, two R_{chemaq}=10^{-11} and 10^{-7} s^{-1}.