



S4 Fig. Effect of the extraction solvent composition on observed ¹²C:¹³C ratio. (A) Four different ¹²C/¹³C SCFA standard mixed solutions, containing ¹²C-acetate, ¹²C-propionate and their corresponding ¹³C-counterparts were prepared, with a ¹²C:¹³C concentration ratio of 0.5, 1, 2 and 5, in five different reaction/organic solvents, namely H₂O/ACN (50:50, v/v), H₂O/ACN (20:80, v/v), H₂O/MeOH (50:50, v/v), H₂O/MeOH (20:80, v/v) and H₂O/MeOH/ACN (20:40:40, v/v). Dashed line represents a slope = 1. Error bars represent standard deviation, averaged data for the two tested standards (acetate and propionate). (B) Regression line equations and r² corresponding to plots in (A).