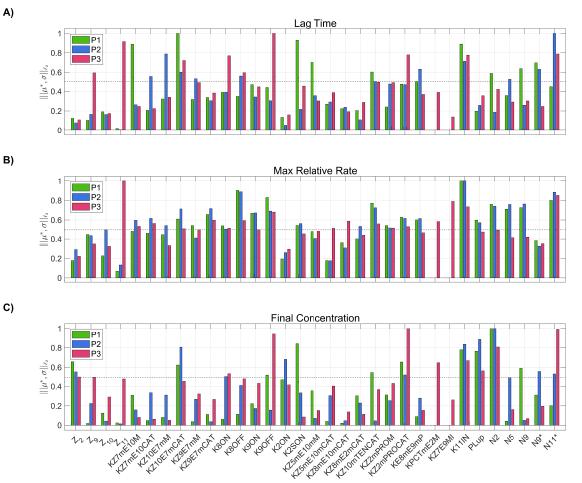**S6 Fig.   Screening for all model parameters using the Method of Morris.**
The method of Morris procedure with trajectory selection was conducted three times to generate path sets P_1, P_2, P_3. The associated ℓ_2-norm of the Morris sensitivity measures μ^*, σ for **A)** lag time; **B)** maximum relative rate; **C)** final concentration; were calculated. Parameters with the normalized ℓ_2-norm of μ^* and σ greater than 0.5 for any of the path subsets were chosen as candidates for the global Sobol method, determining a 33 model parameter subset.