

Supporting Information

Ionic Binding of Na^+ versus K^+ to the Carboxylic Acid Head Group of Palmitic Acid Monolayers studied by Vibrational Sum Frequency Spectroscopy

Cheng Y. Tang and Heather C. Allen*

The Ohio State University, Department of Chemistry, 100 West 18th Ave., Columbus, OH 43210

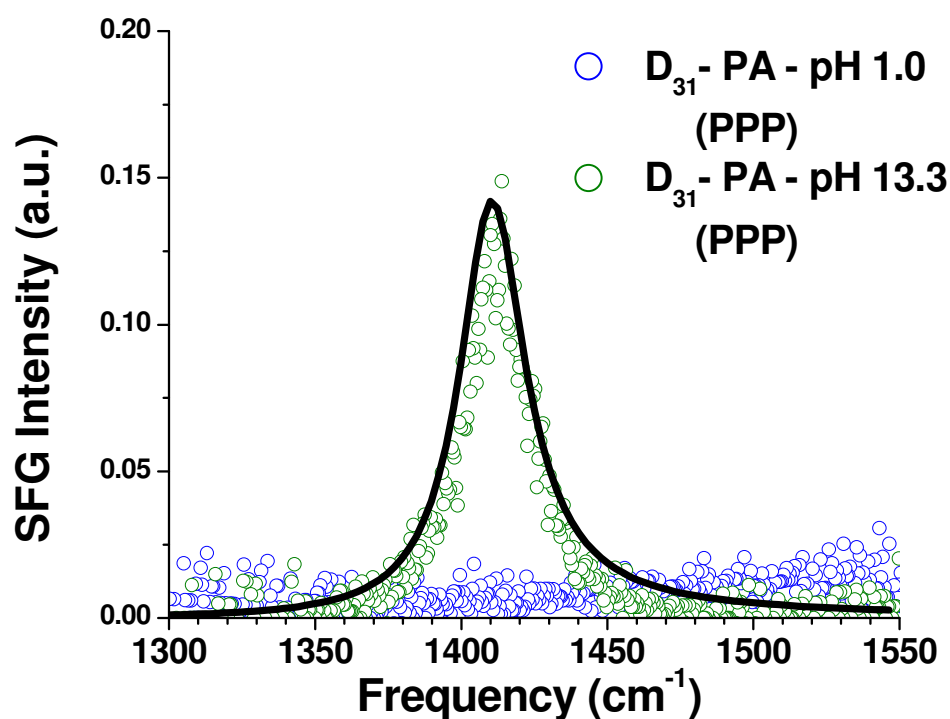


Figure S1. ppp VSFG spectra of D_{31} -PA monolayers on water with pH values at 1.0 and 13.3. The fitted curve for pH 13.3 spectrum is shown as a solid line.

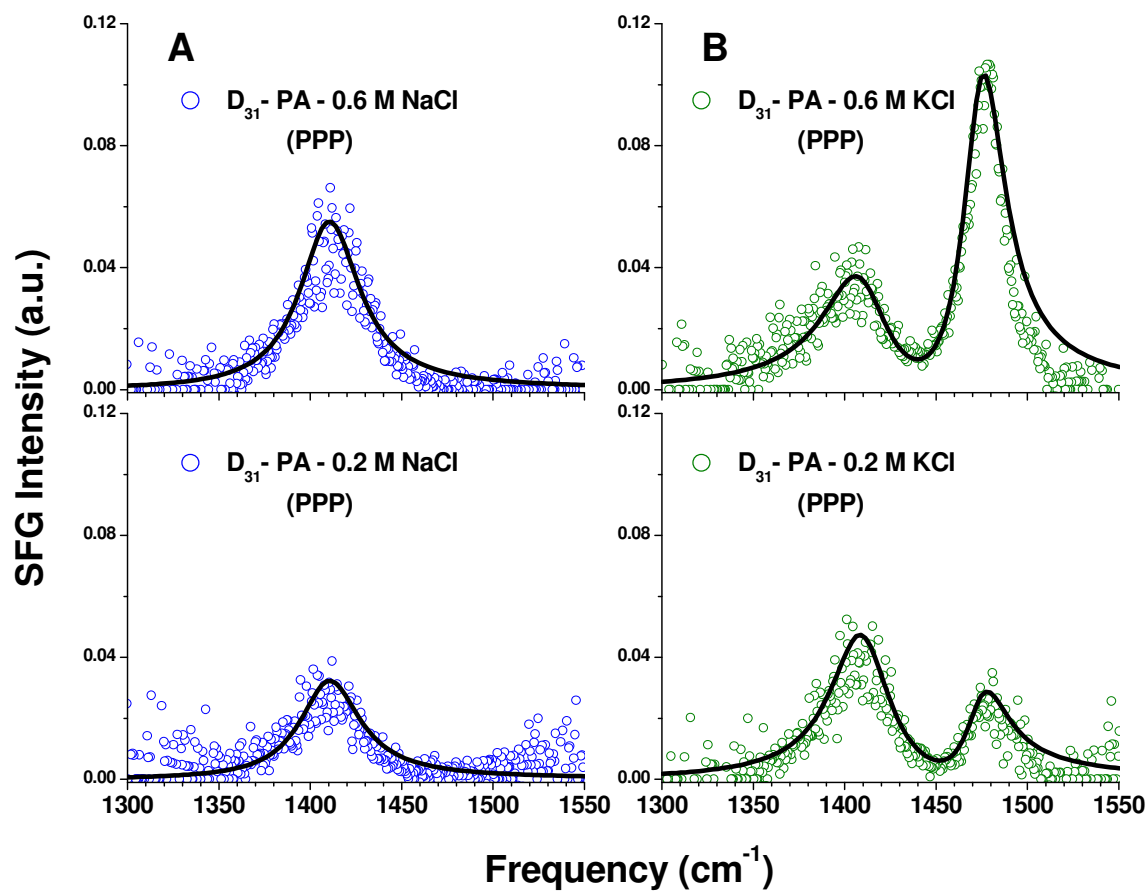


Figure S2. ppp VSG spectra of D_{31} -PA monolayers on salt solutions: (A) 0.2 and 0.6 M NaCl solutions; (B) 0.2 and 0.6 M KCl solutions. The individual fitted curves are shown as solid lines.

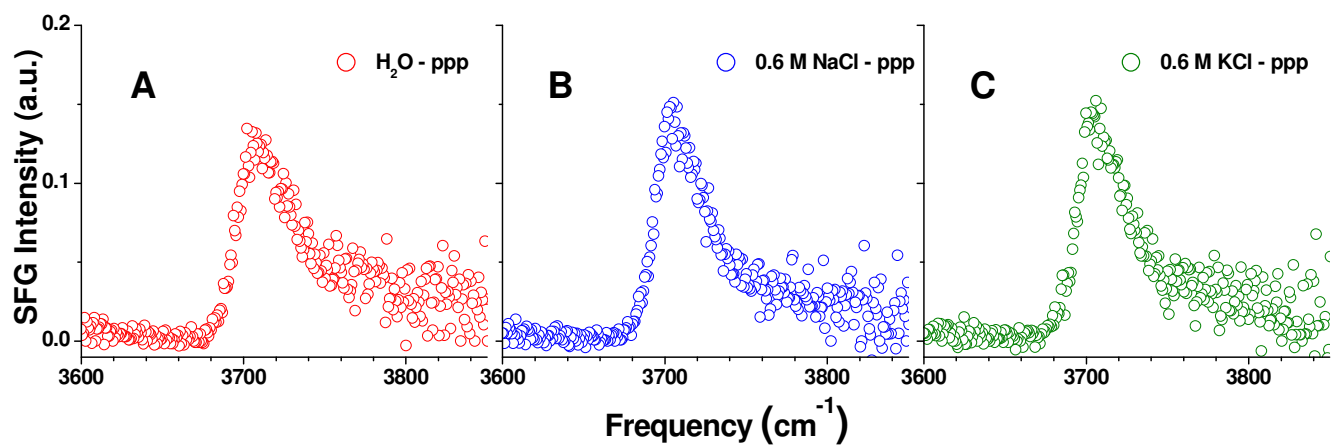


Figure S3. ppp VSG spectra of neat water and pure salt solutions: A. neat water; B. 0.6 M NaCl solution; C. 0.6 M KCl solution.

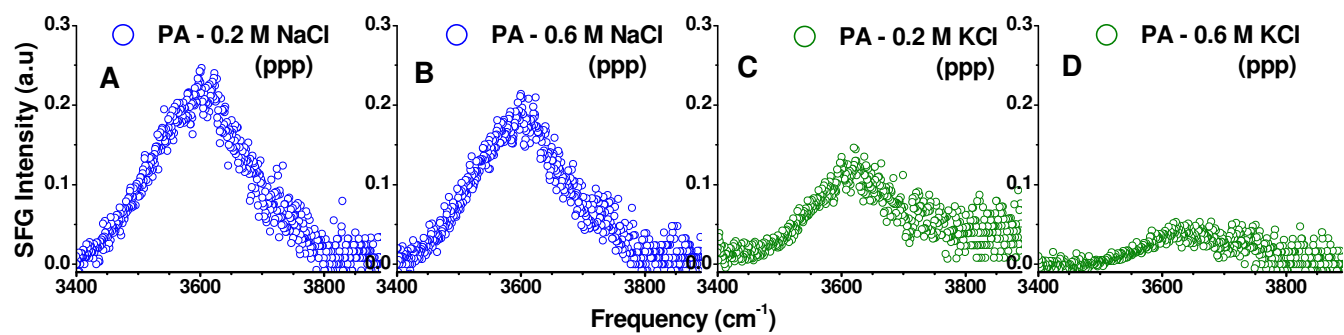


Figure S4. ppp VSG spectra of PA monolayers on salt solutions: A. 0.2 M NaCl solution; B. 0.6 M NaCl solution; C. 0.2 M KCl solution; D. 0.6 M KCl solution