

SUPPORTING INFORMATION

Figure 1 SI. Calculated spectra (black) of the different isomers ***M*** (a), ***SC*** (b), ***Z2*** (c) and ***Z1*** (d) of CIP Li⁺ complex, plotted as Lorentzian convolution (FWHM of 15 cm⁻¹) of theoretical IR stick spectra. The IRMPD experimental spectrum is overlaid in red.

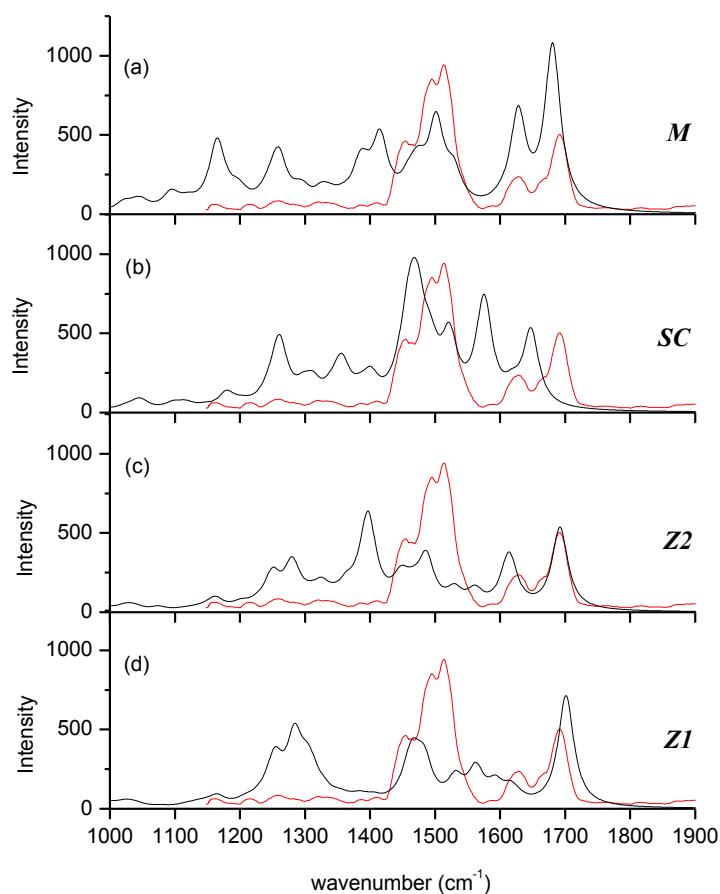


Figure 2 SI. Calculated spectra (black) of the different isomers ***M*** (a), ***SC*** (b), ***Z2*** (c) and ***Z1*** (d) of CIP Al(OH)₂⁺ complex, plotted as Lorentzian convolution (FWHM of 15 cm⁻¹) of theoretical IR stick spectra. The IRMPD experimental spectrum is overlaid in red.

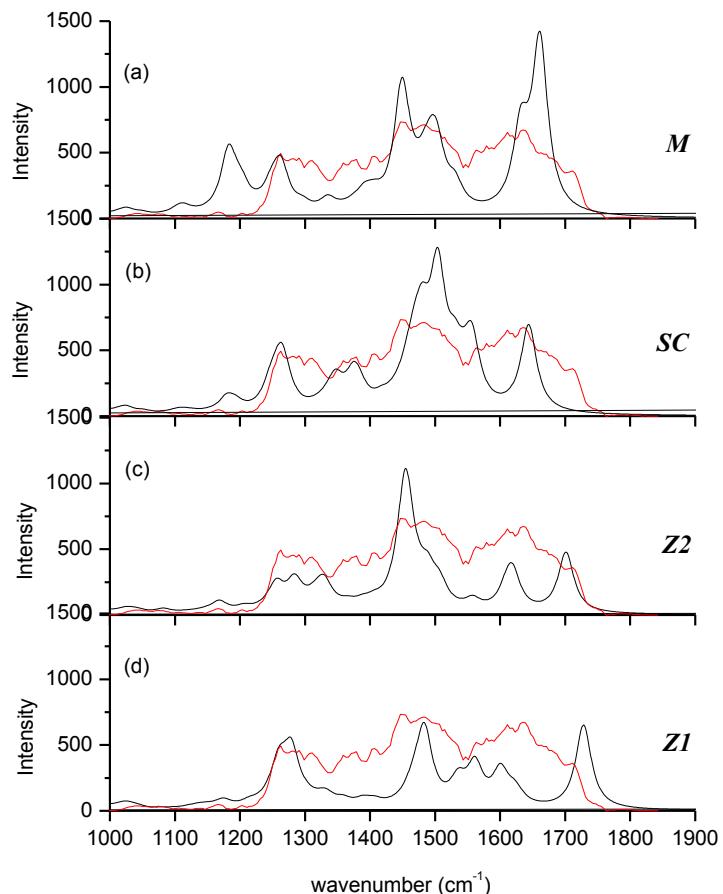


Figure 3 SI. Calculated spectra (black) of the different isomers ***M*** (a), ***SC*** (b), ***Z2*** (c) and ***Z1*** (d) of CIP Ag⁺ complex, plotted as Lorentzian convolution (FWHM of 15 cm⁻¹) of theoretical IR stick spectra. The IRMPD experimental spectrum is overlaid in red.

