

Electronic Supplementary Information

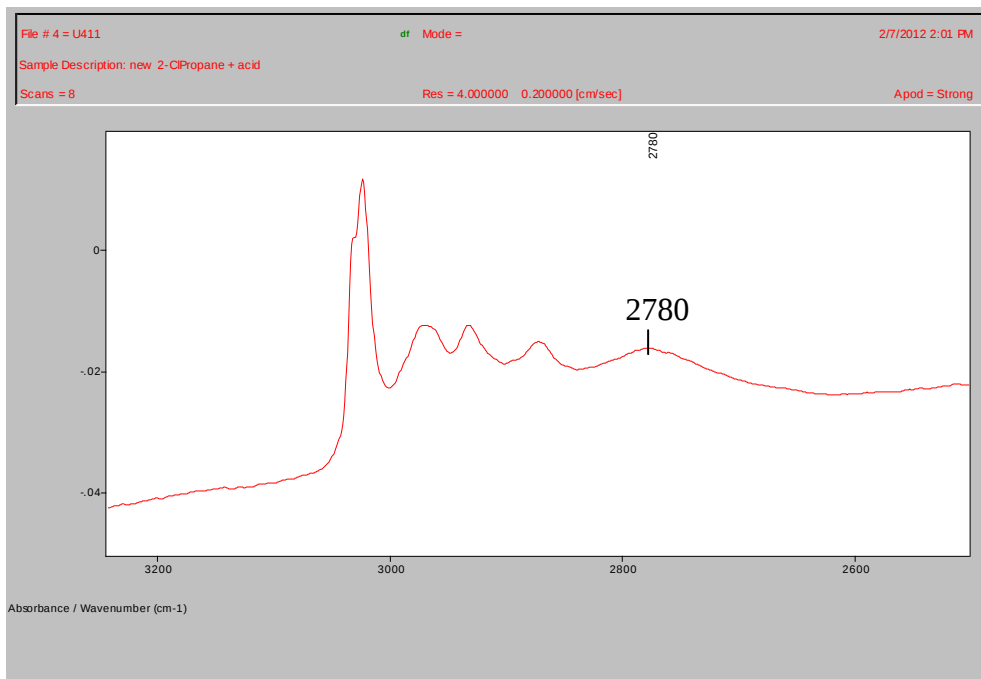
for

Hydrogen Bonding *Versus* Hyperconjugation in Condensed-Phase Carbocations

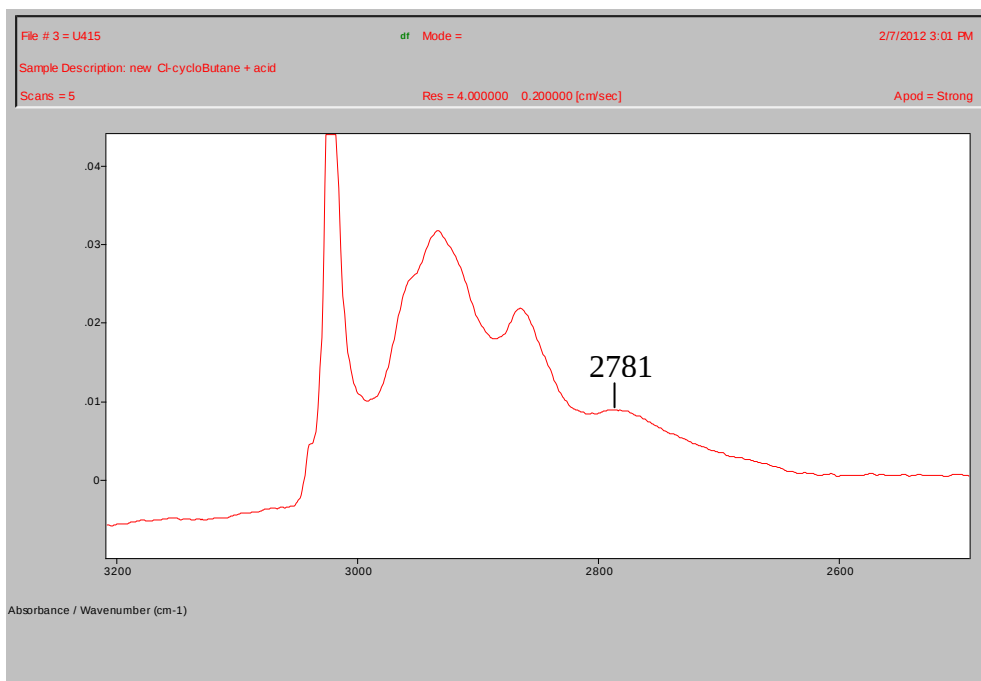
Christopher A. Reed,* Evgenii S. Stoyanov and Fook S. Tham

(5 pages)

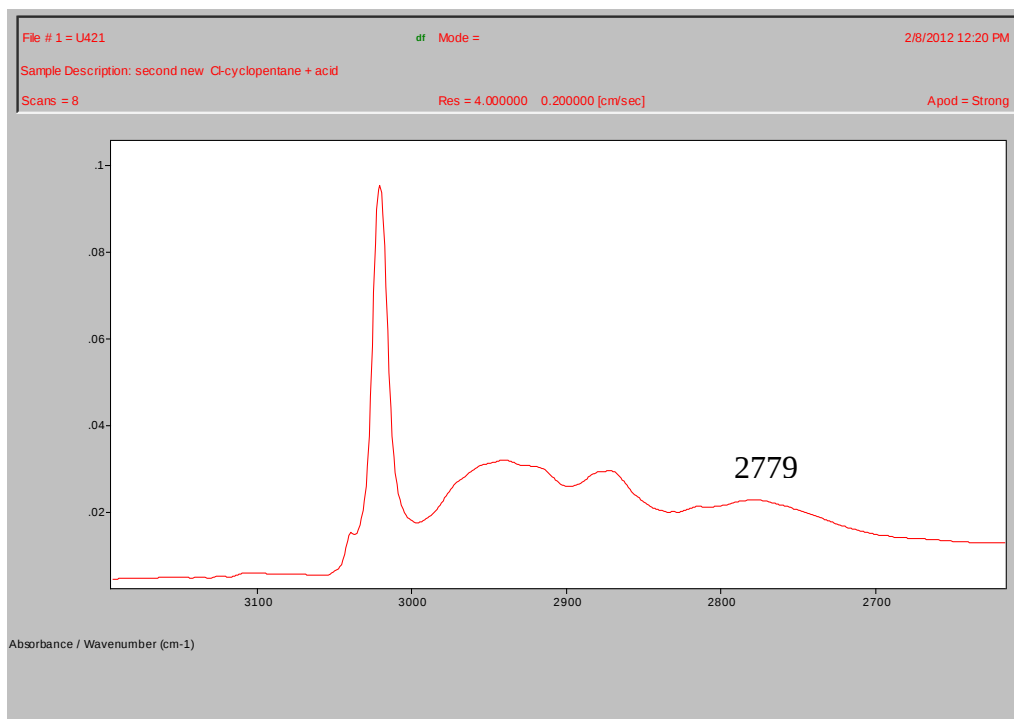
IR Spectra of Secondary Alkyl Carboranes:



Propyl(CHB₁₁Cl₁₁)

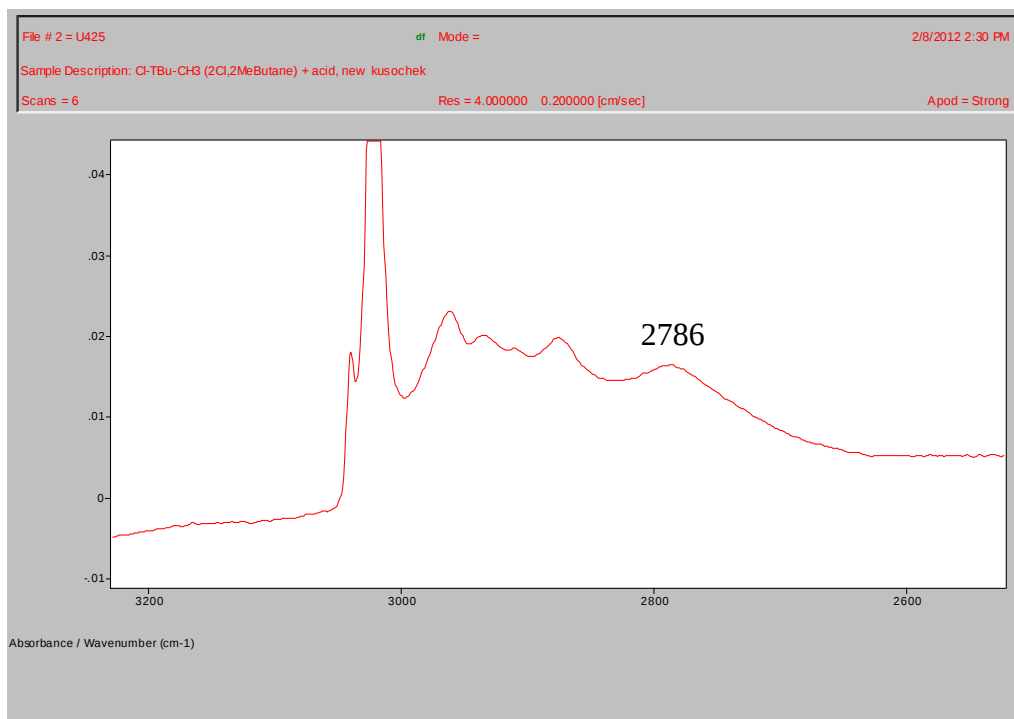


Cyclobutyl(CHB₁₁Cl₁₁)

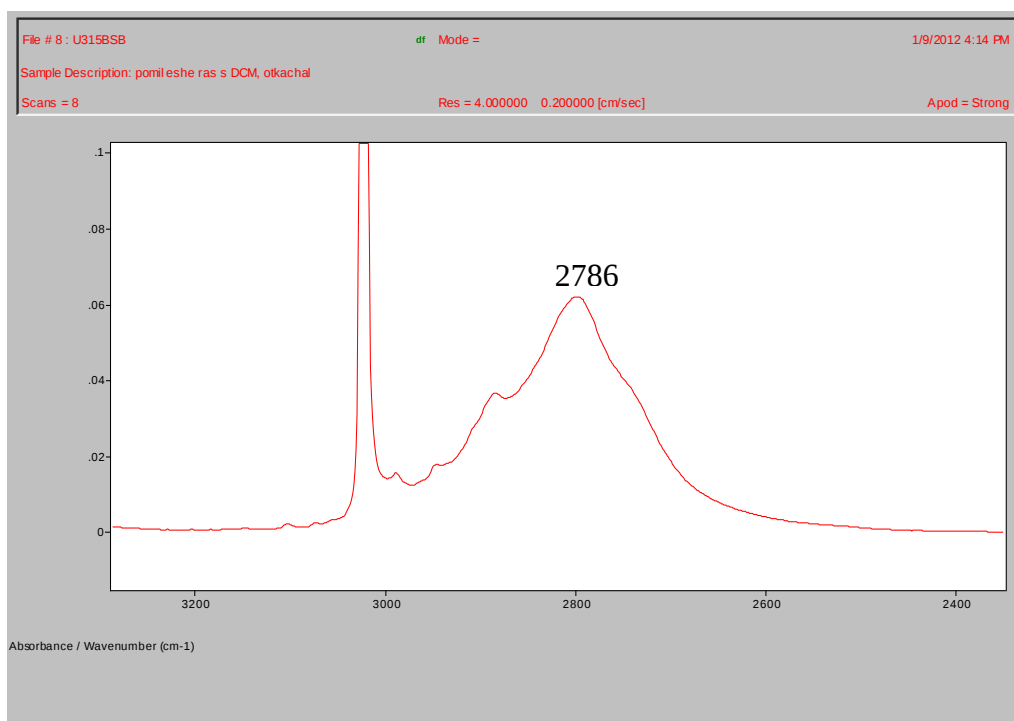


Cyclopentyl(CHB₁₁Cl₁₁)

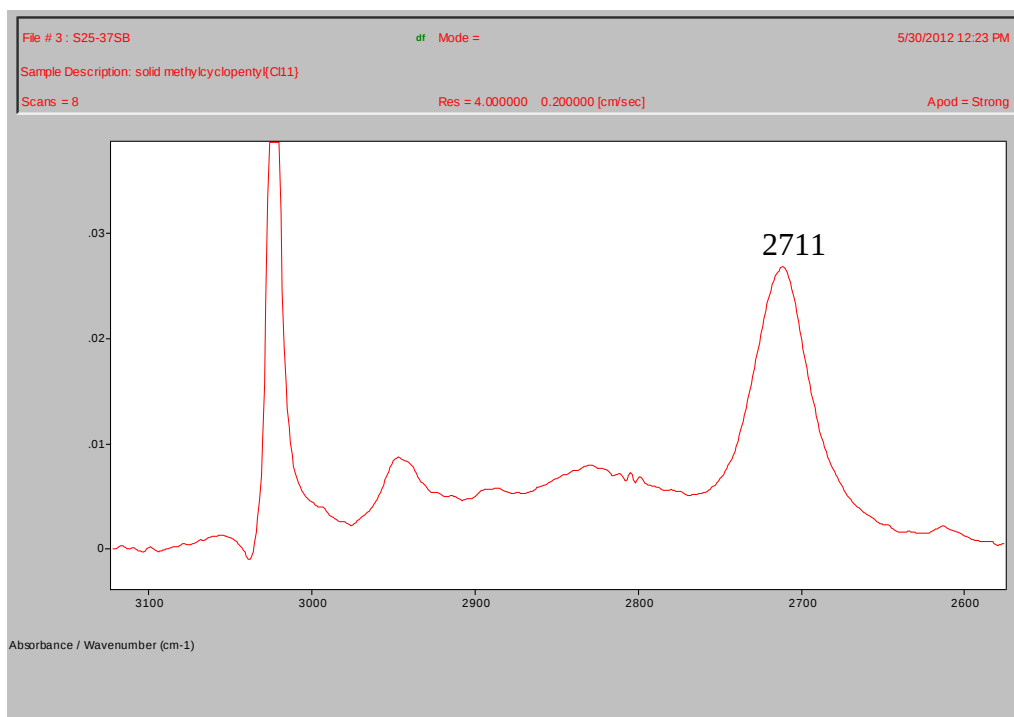
IR Spectra of Tertiary Carbocation Carborane Salts:



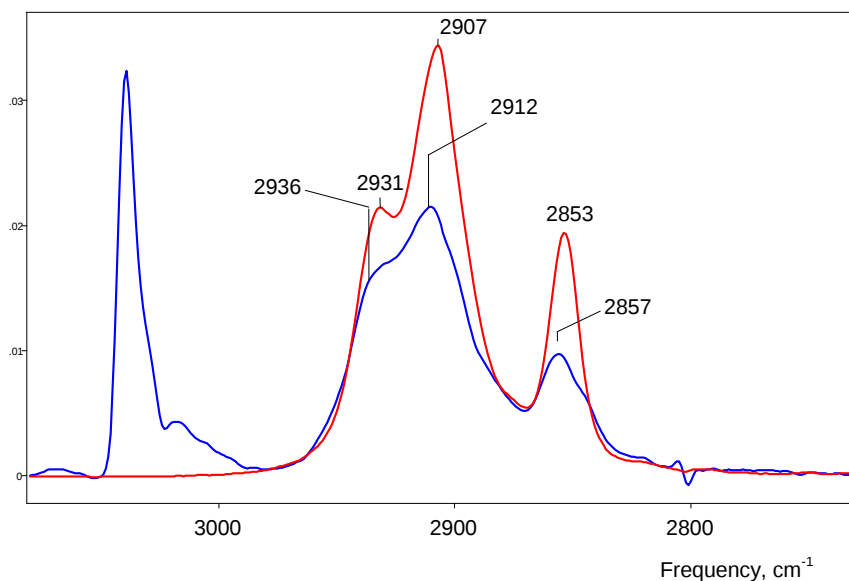
2-Methylbutyl⁺ CHB₁₁Cl₁₁⁻



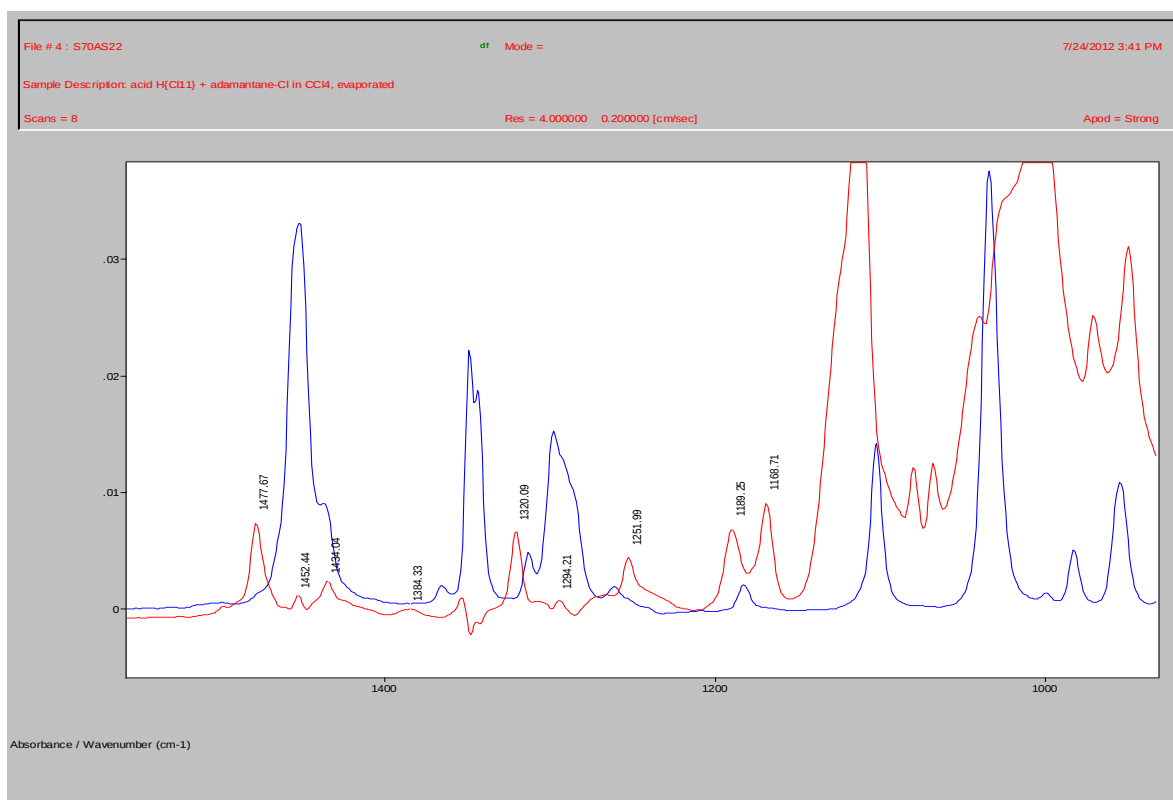
2,3-dimethylbutyl⁺ CHB₁₁Cl₁₁⁻



Methylcyclopentyl⁺ CHB₁₁Cl₁₁⁻



1-Adamantyl⁺ CHB₁₁Cl₁₁⁻ (blue) compared to 1-adamantyl chloride (red) in the νCH region.



1-Adamantyl⁺ CHB₁₁Cl₁₁⁻ (blue) compared to 1-adamantyl chloride (red) in the δCH and νCC region.