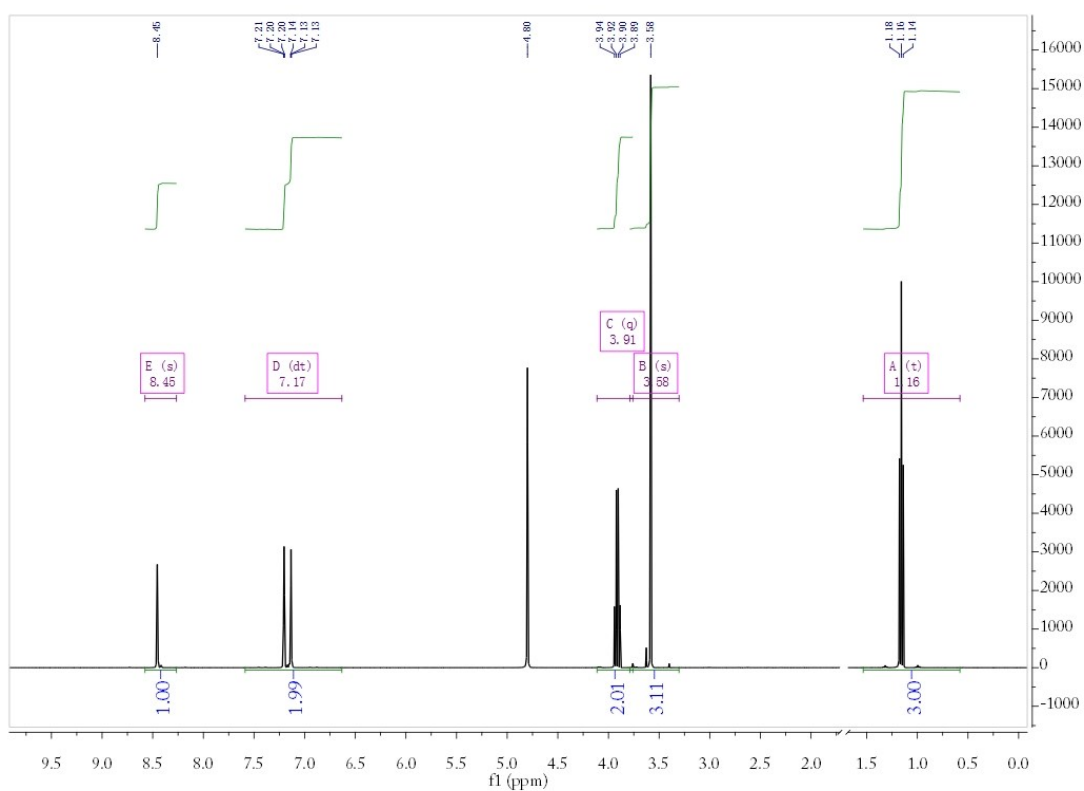


Supporting information

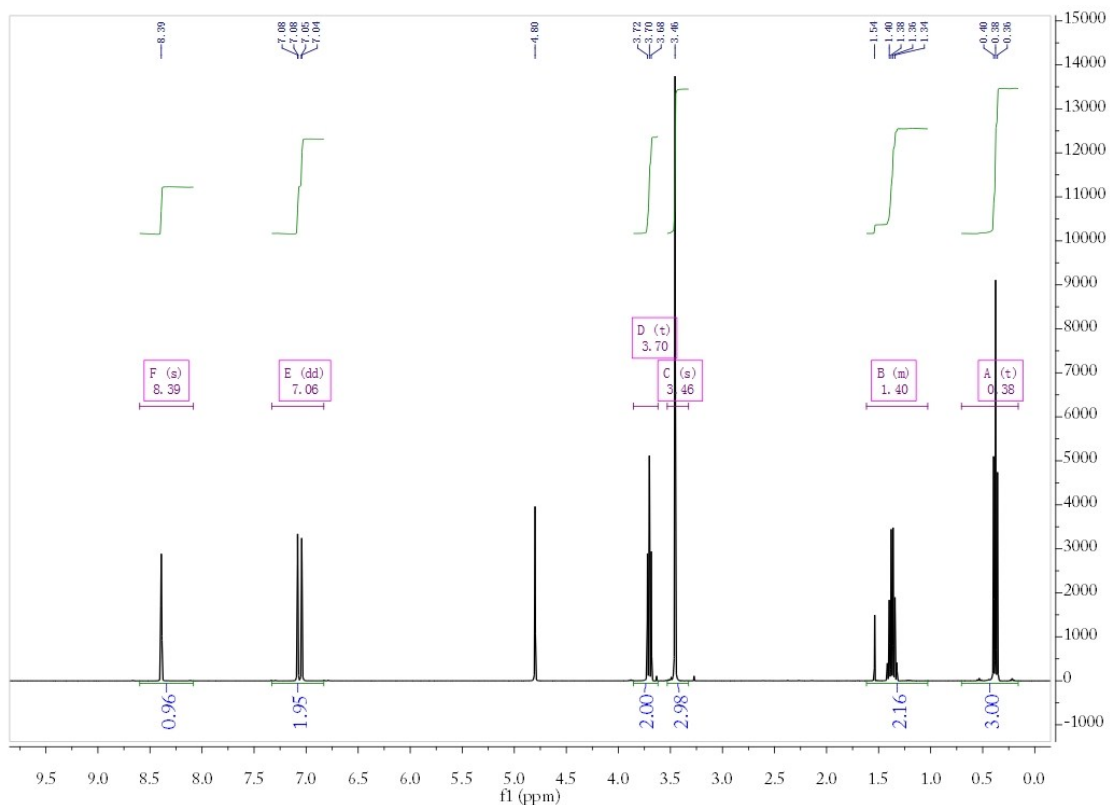
Physicolchemical properties of ionic liquids $[C_n\text{mim}][\text{TFA}]$ ($n = 2,3,4,5,6$)

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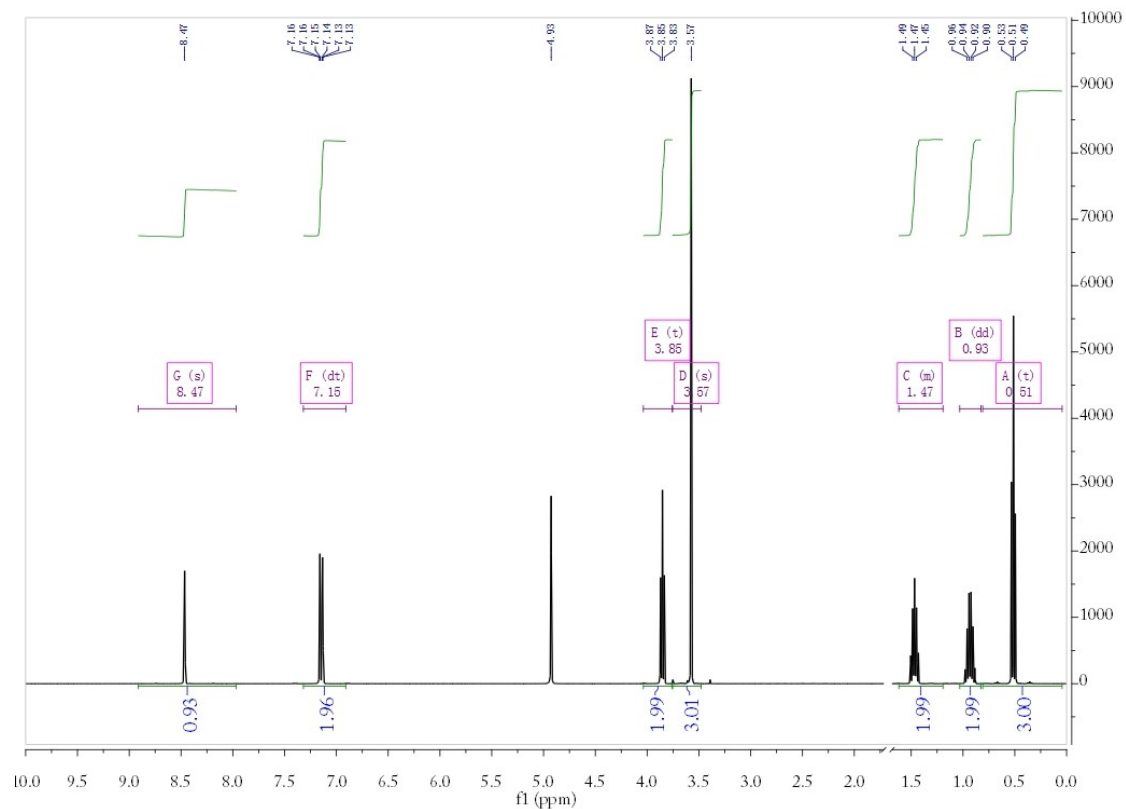
A: ^1H NMR Spectrum of $[\text{C}_2\text{mim}][\text{TFA}]$



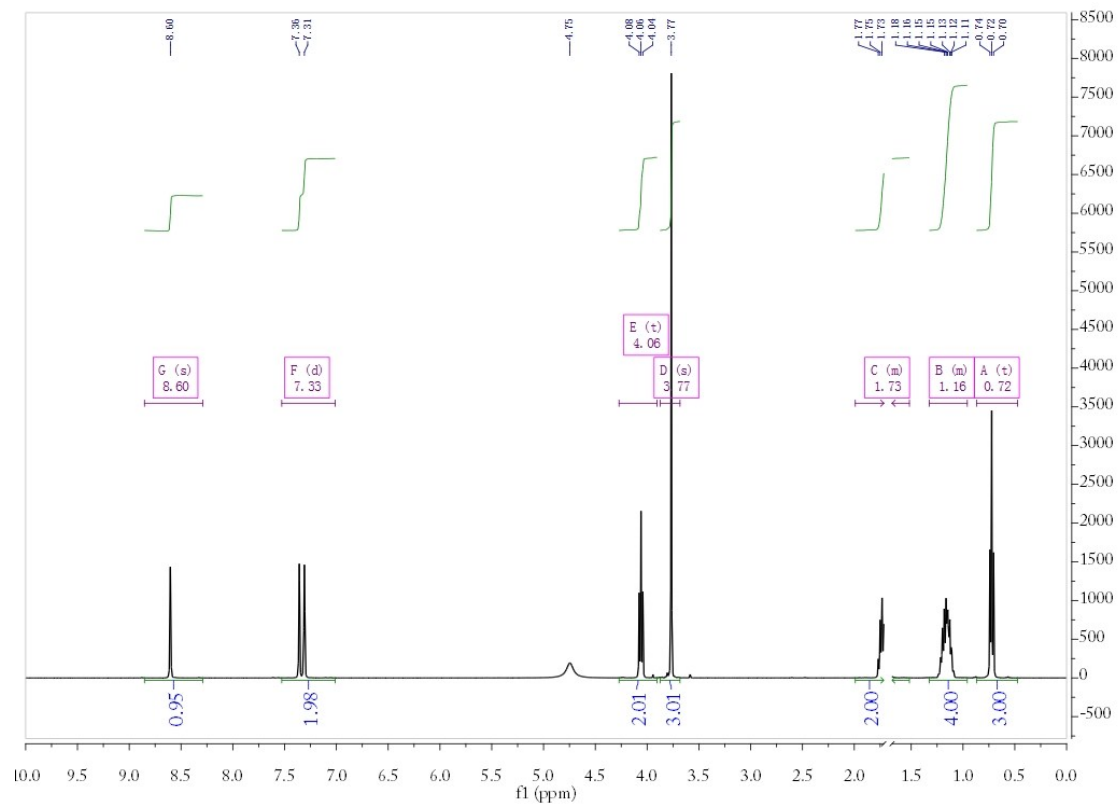
B: ^1H NMR Spectrum of $[\text{C}_3\text{mim}][\text{TFA}]$



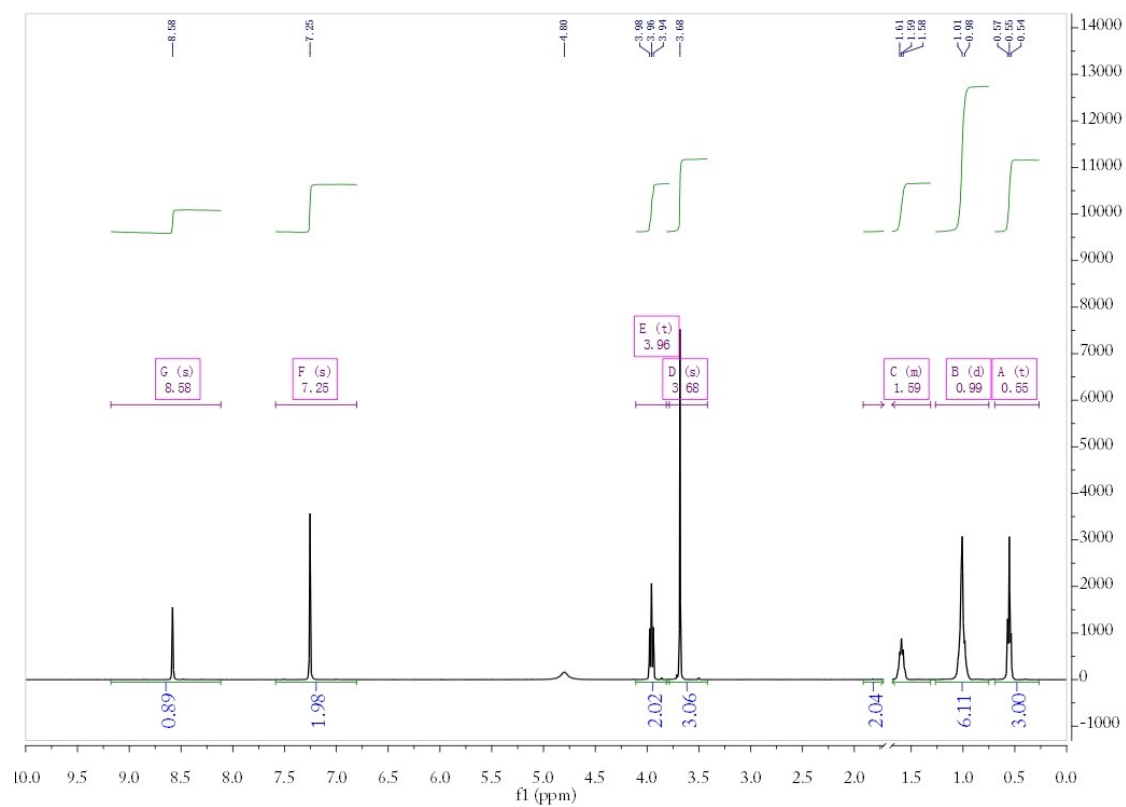
C: ^1H NMR Spectrum of $[\text{C}_4\text{mim}][\text{TFA}]$



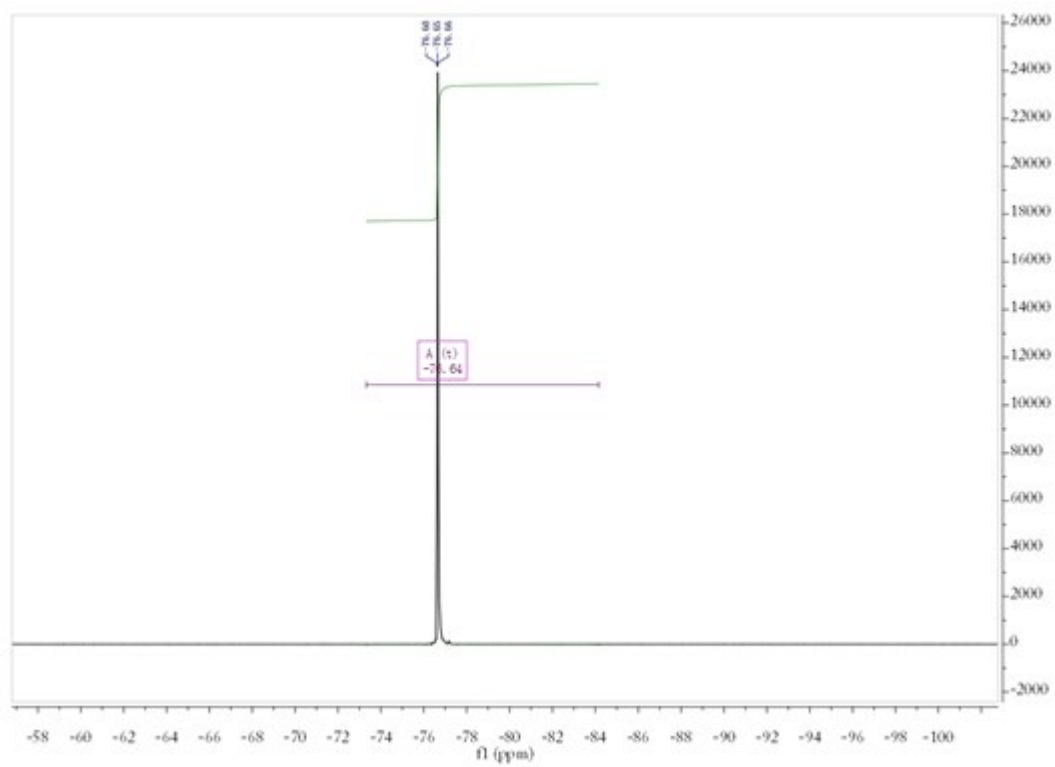
D: ^1H NMR Spectrum of $[\text{C}_5\text{mim}][\text{TFA}]$

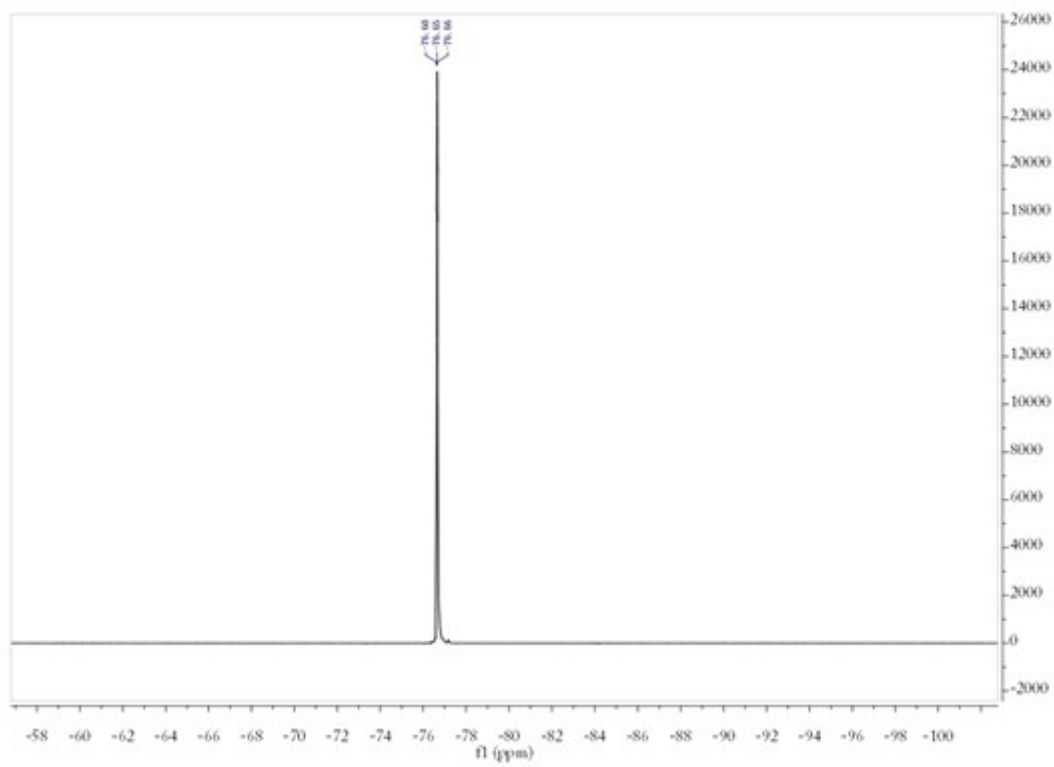


E: ^1H NMR Spectrum of $[\text{C}_6\text{mim}][\text{TFA}]$

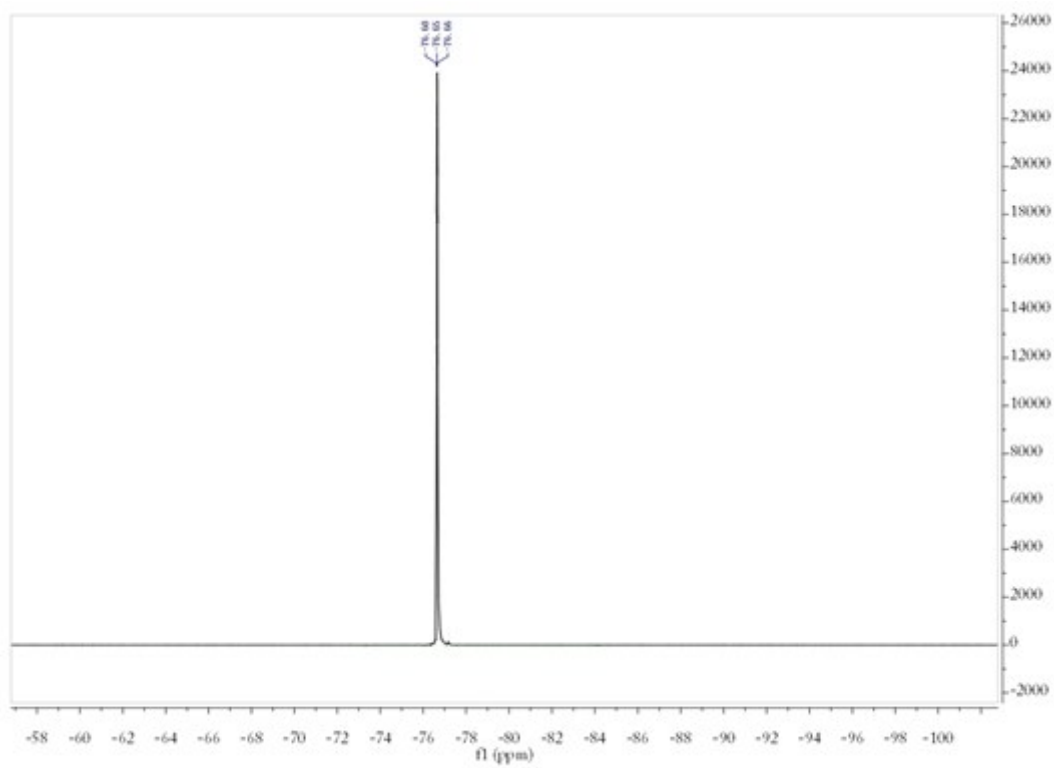


F: ^9F NMR Spectrum of $[\text{C}_n\text{mim}][\text{TFA}]$





${}^9\text{F}$ NMR Spectrum of $[\text{C}_2\text{mim}][\text{TFA}]$



${}^9\text{F}$ NMR Spectrum of $[\text{C}_6\text{mim}][\text{TFA}]$