

Electronic Supplementary Information

Ionic liquid based battery electrolytes by lithium and sodium pseudo-delocalized pyridinium anion salts

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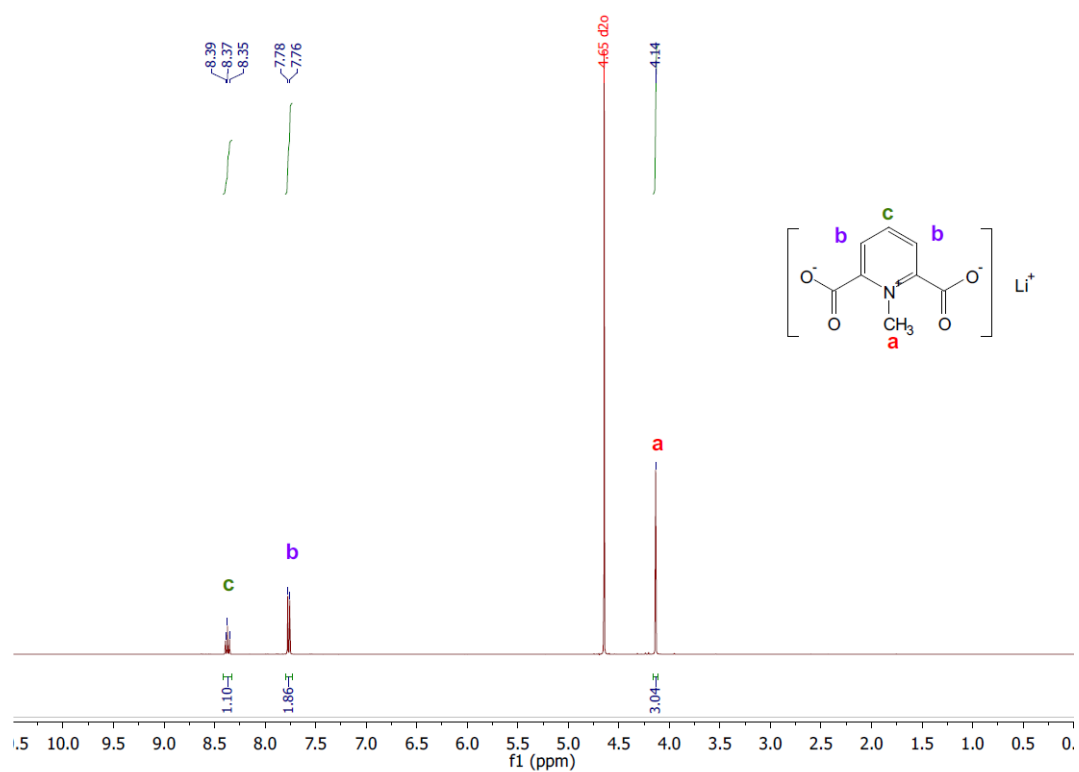


Fig. S1: ¹H-NMR of LiMM26py

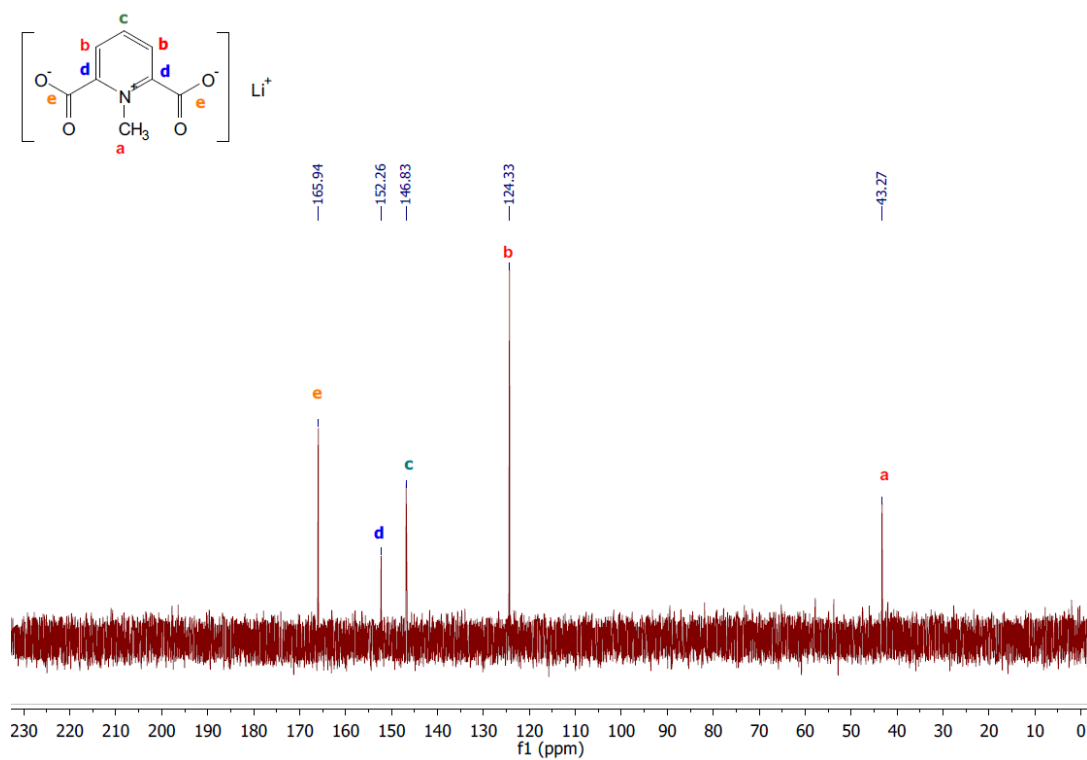


Fig. S2: ¹³C-NMR of LiMM26py

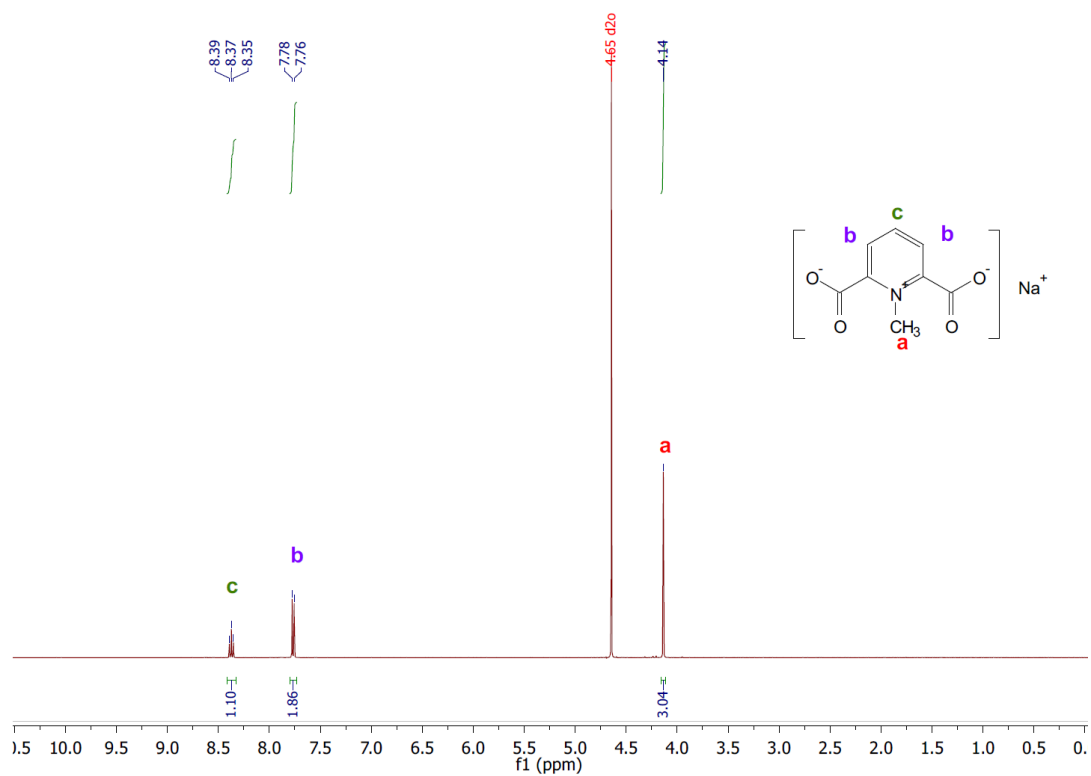


Fig. S3: $^1\text{H-NMR}$ of NaMM26py

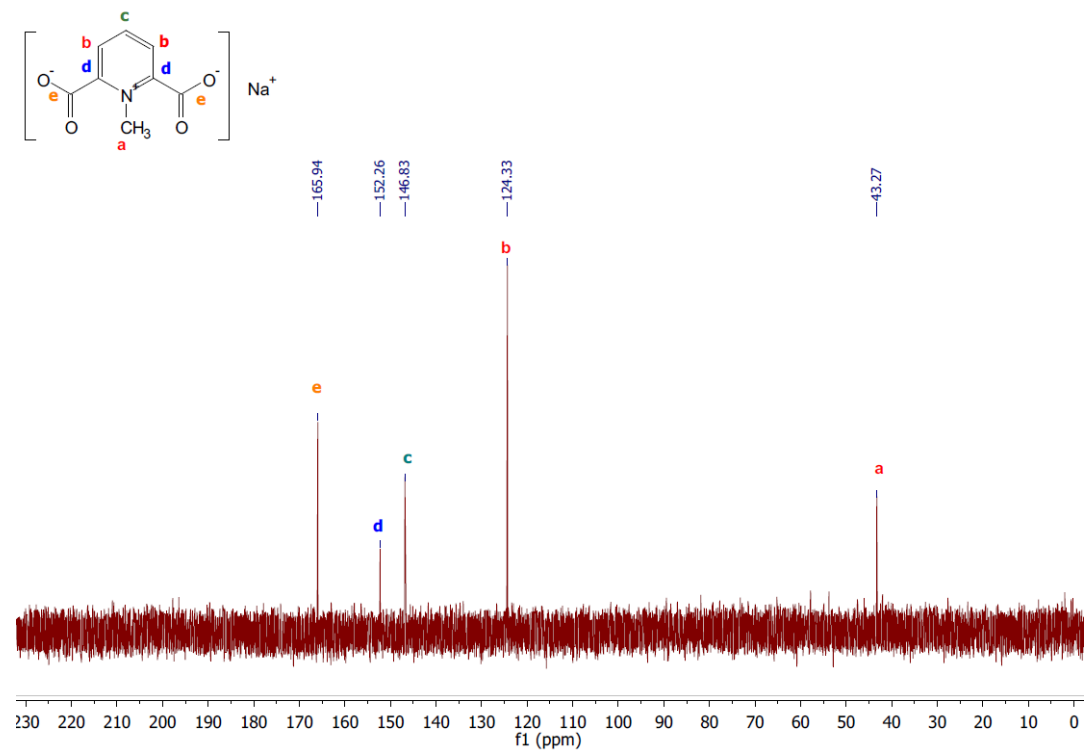


Fig. S4: $^{13}\text{C-NMR}$ of NaMM26py

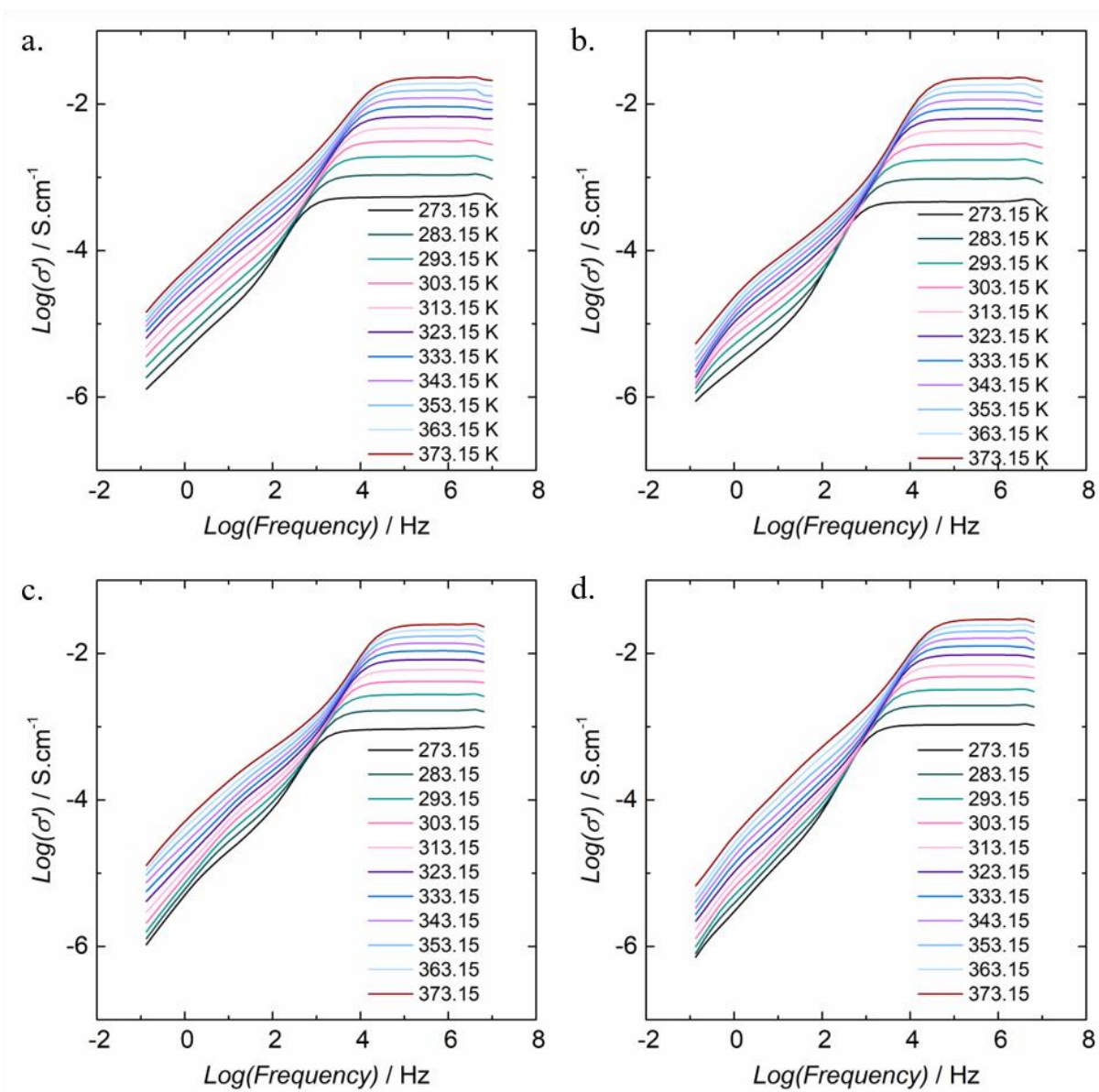


Fig. S5: Ion conductivity as a function of frequency at different temperatures of (a) $[\text{Li}]_{0.1}[\text{Pyr}_{14}]_{0.9}\text{TFSI}$, (b) $[\text{Na}]_{0.1}[\text{Pyr}_{14}]_{0.9}\text{TFSI}$, (c) $[\text{LiMM26py}]_{0.1}[\text{Pyr}_{14}\text{TFSI}]_{0.9}$, and (d) $[\text{NaMM26py}]_{0.1}[\text{Pyr}_{14}\text{TFSI}]_{0.9}$.

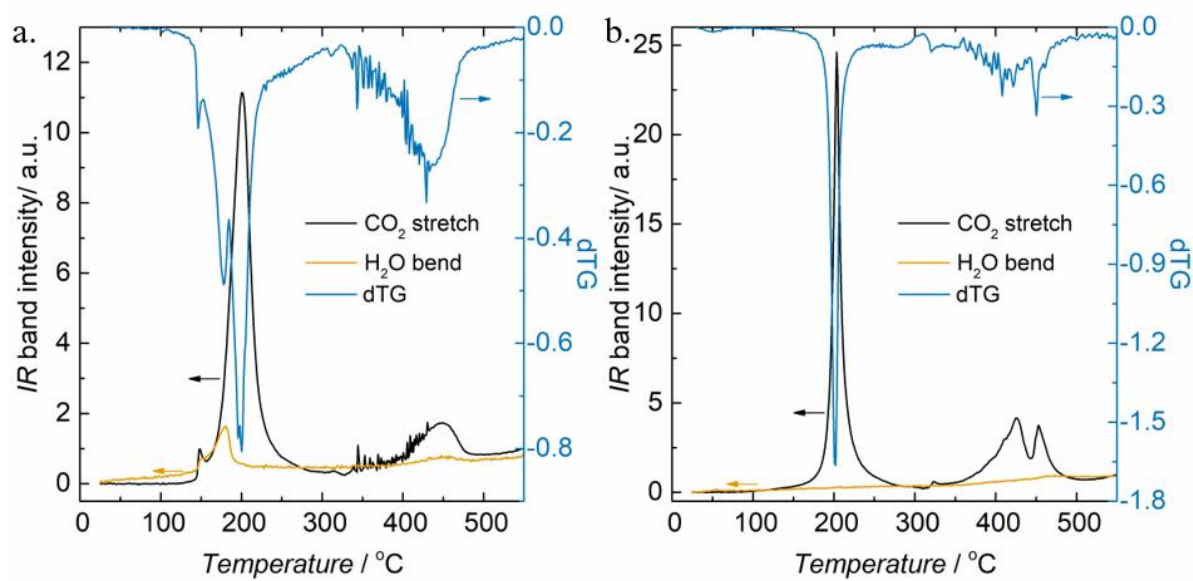


Fig. S6: FTIR band intensities evolution with temperature and first derivative of the TGA signal of (a) LiMM26py, and (b) NaMM26py.