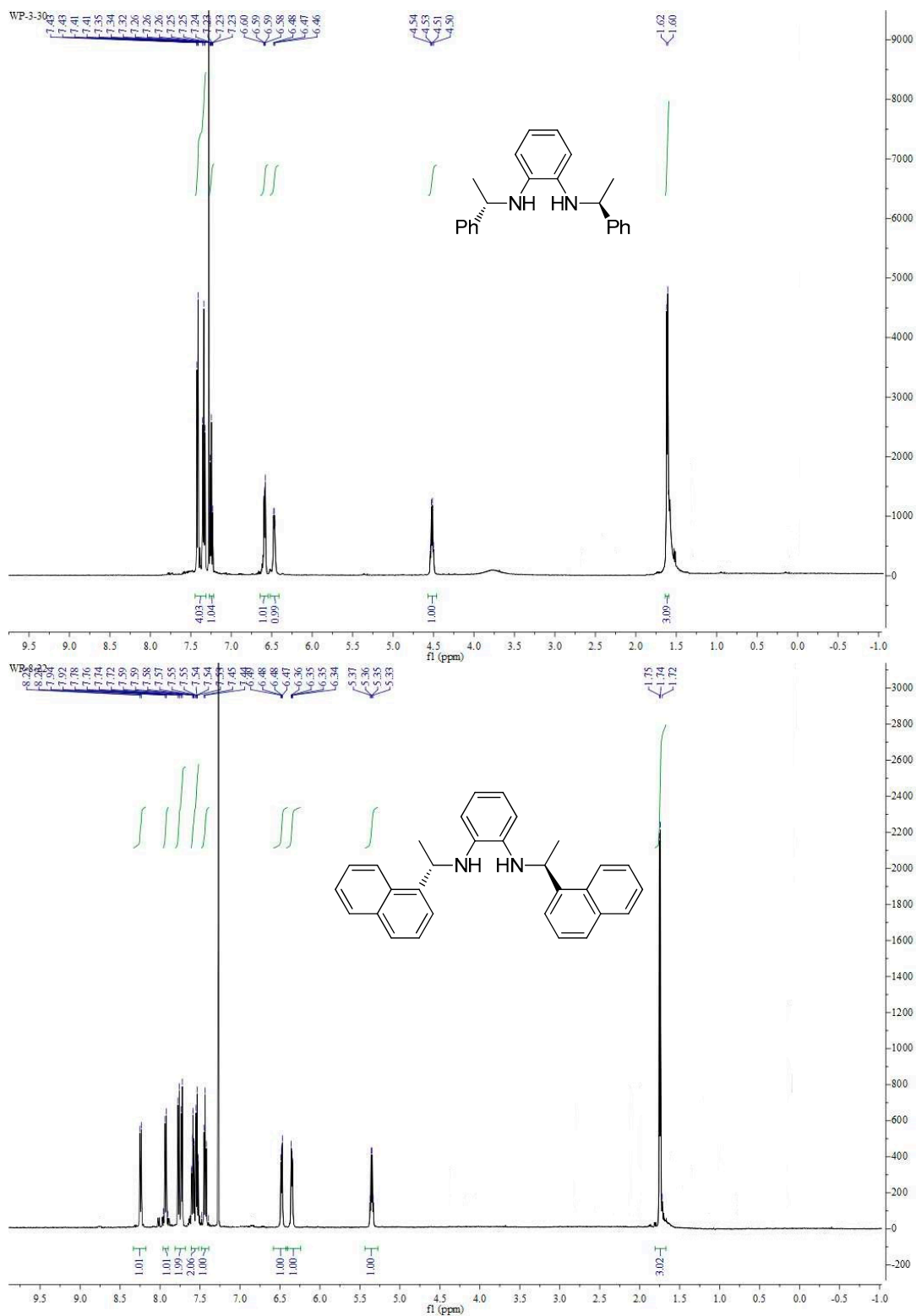


# Supplementary Materials: Synthesis of C<sub>2</sub>-Symmetric Benzimidazolium Salts and Their Application in Palladium-Catalyzed Enantioselective Intramolecular $\alpha$ -Arylation of Amides

Weiping He, Wei Zhao, Bihui Zhou, Haifeng Liu, Xiangrong Li, Linlin Li, Jie Li and Jianyou Shi



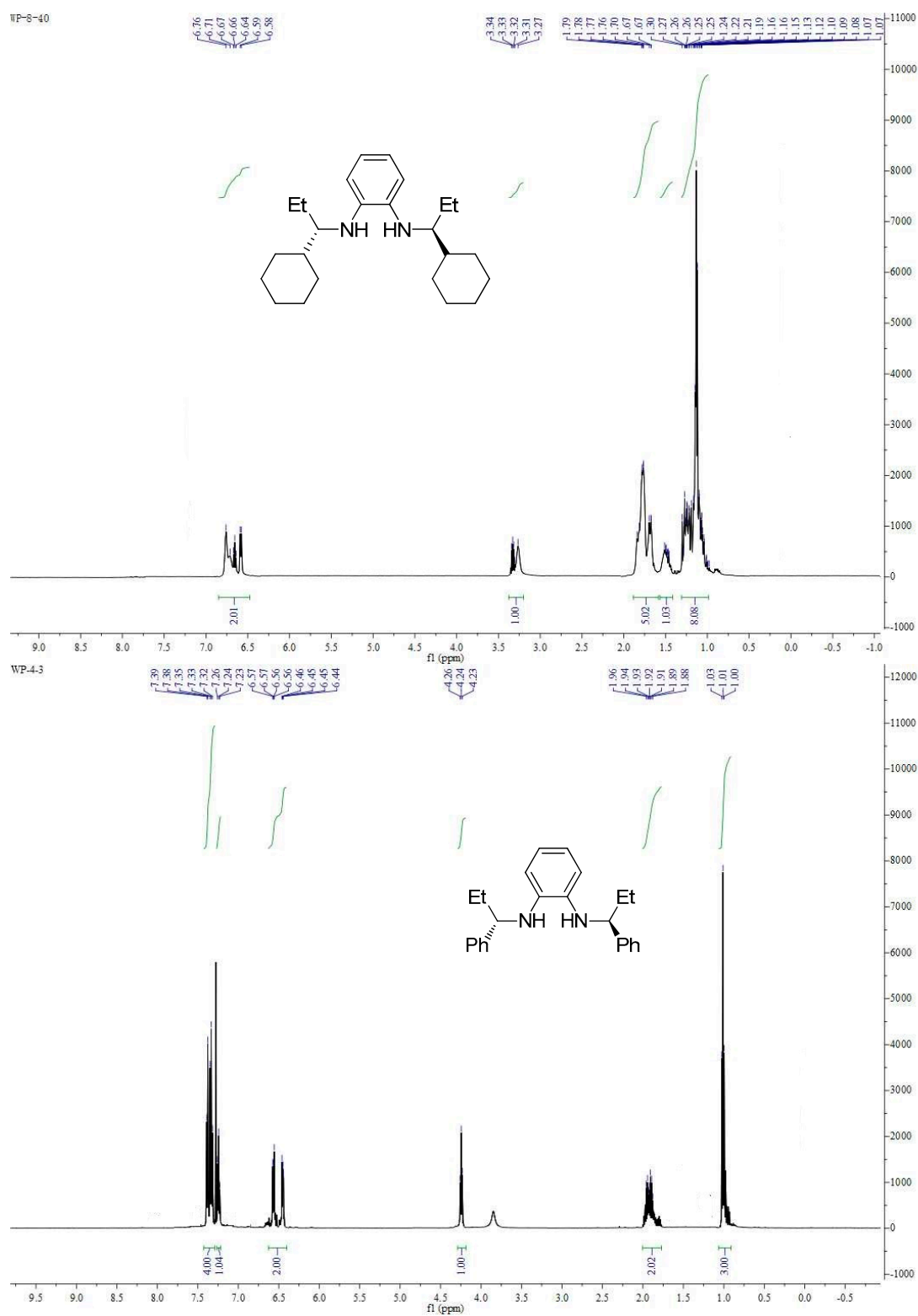
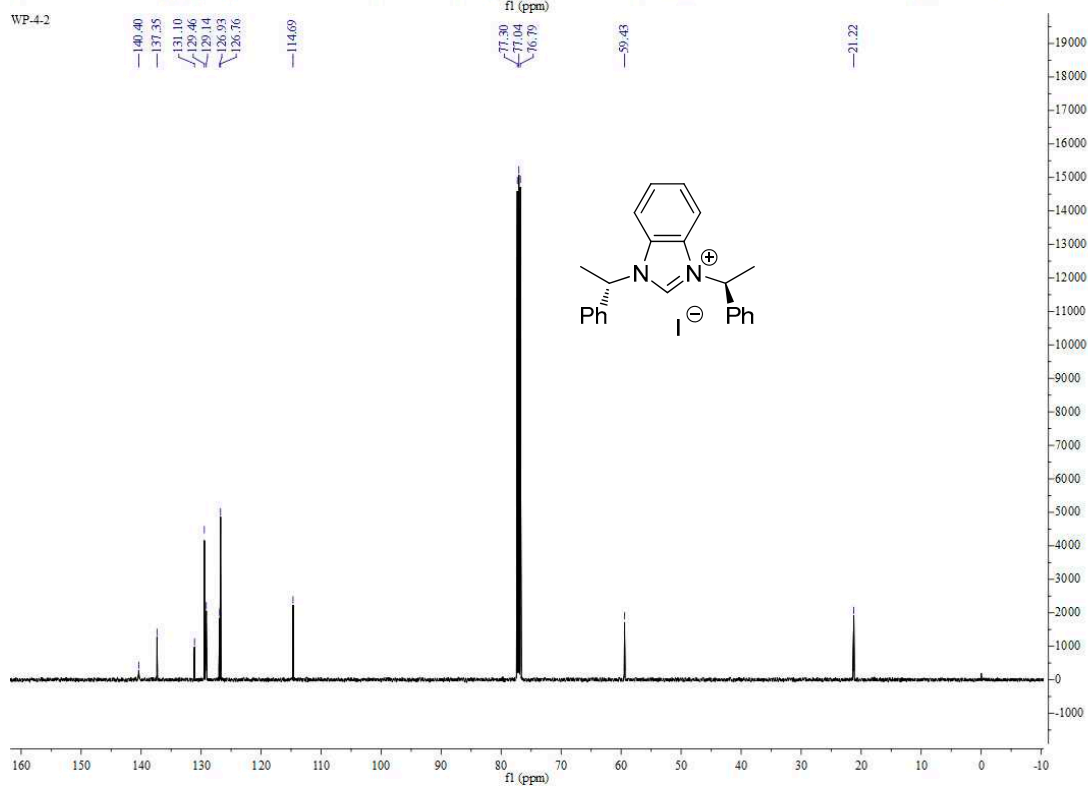
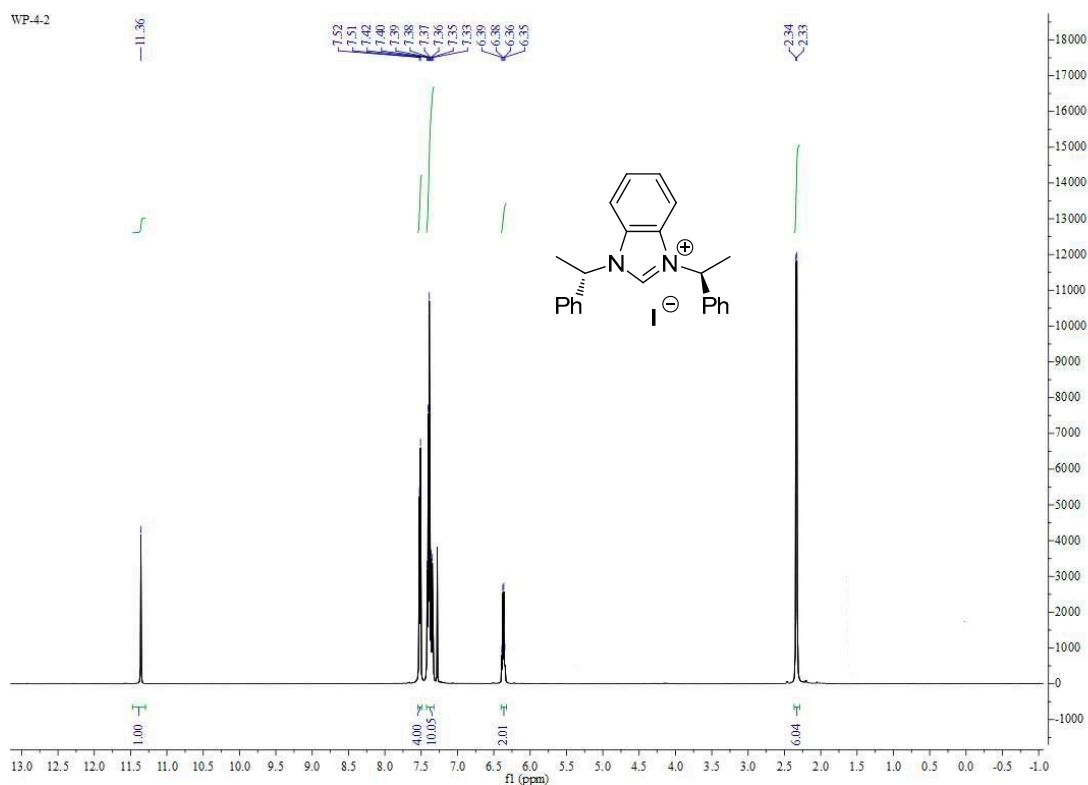
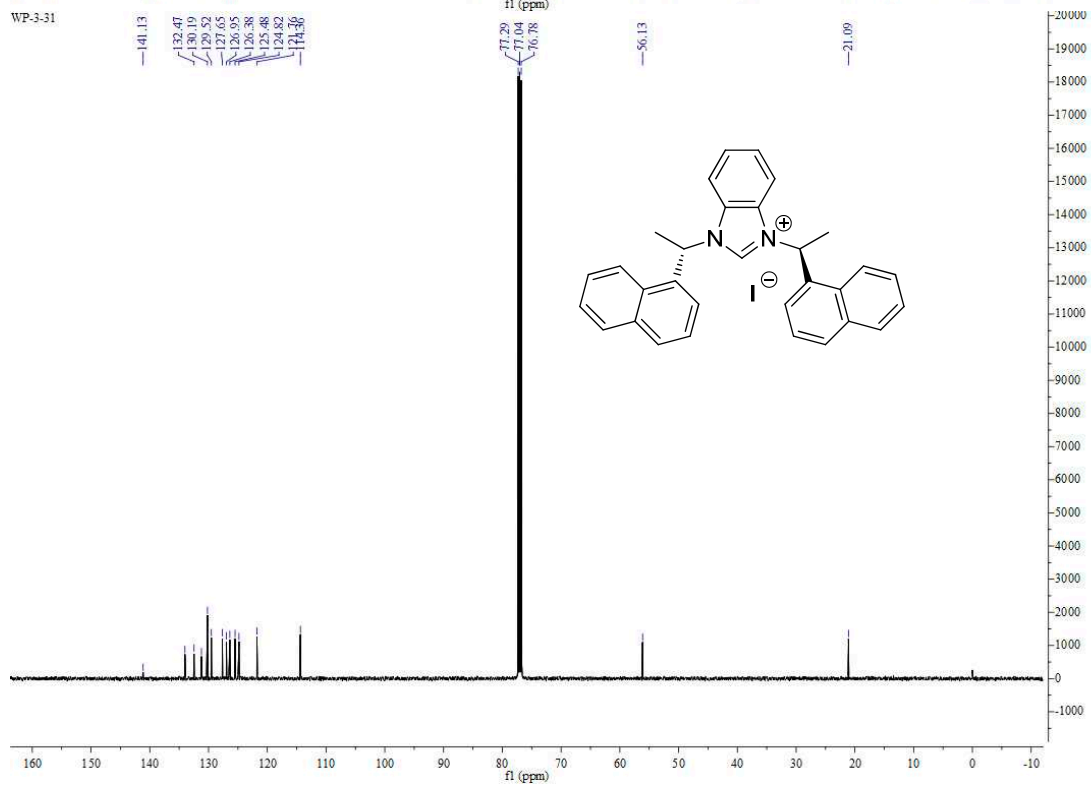
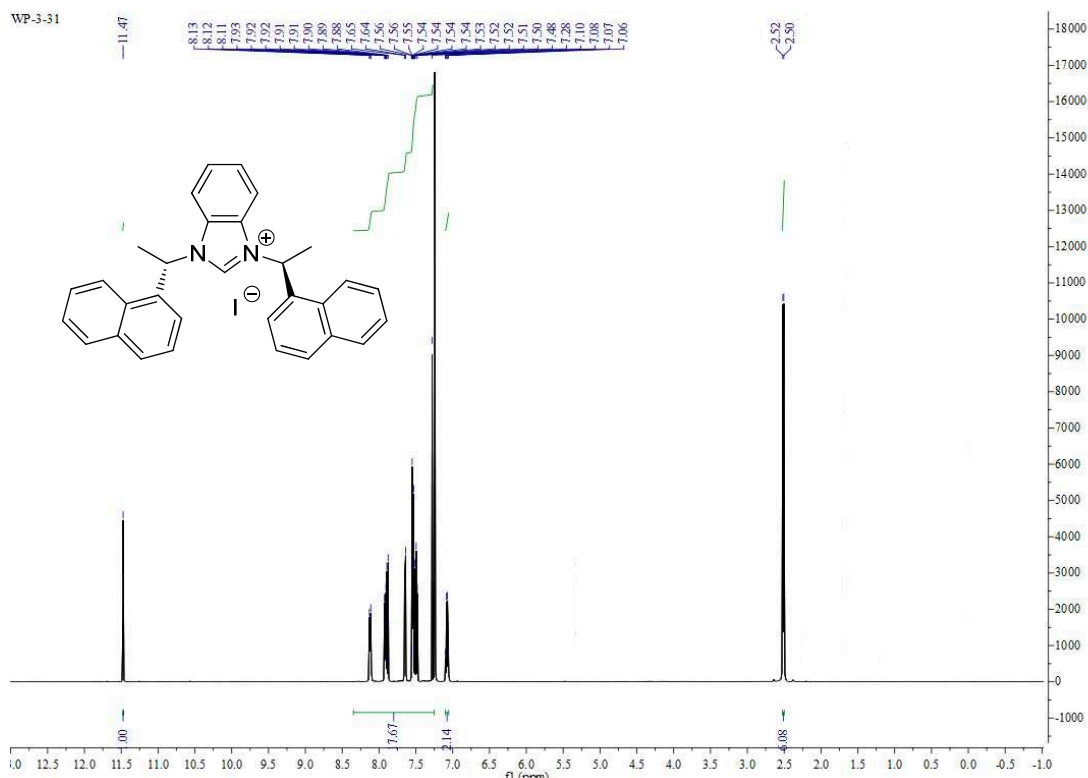
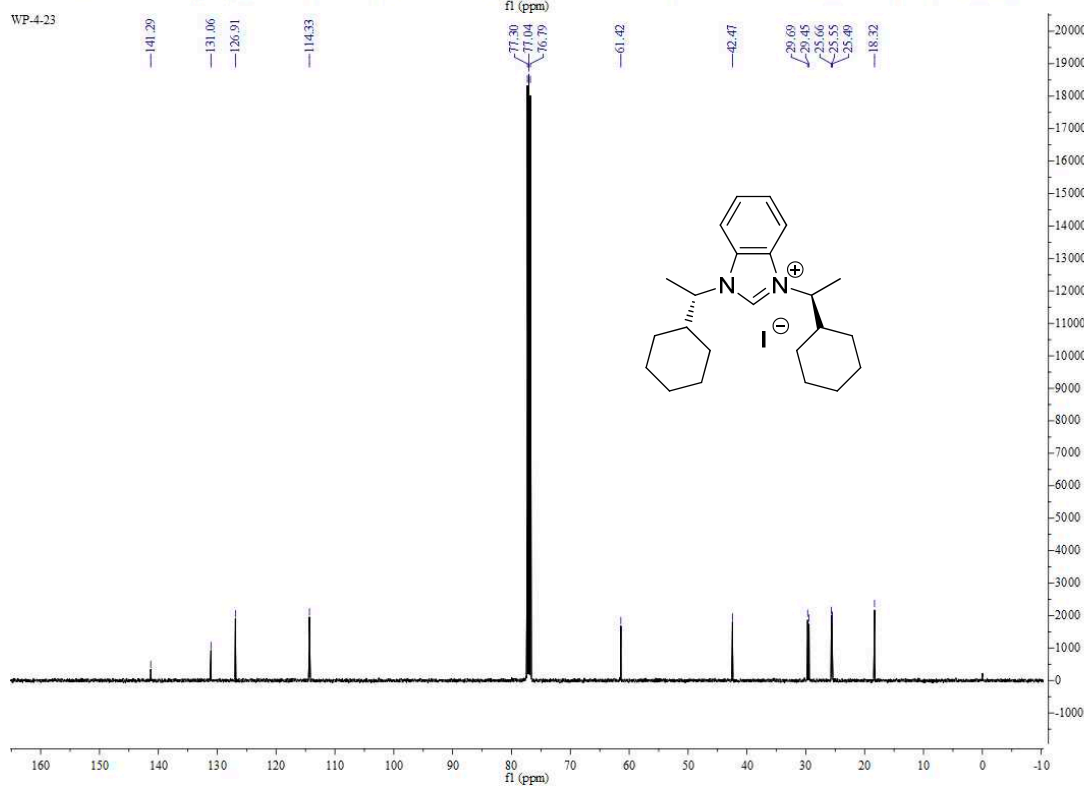
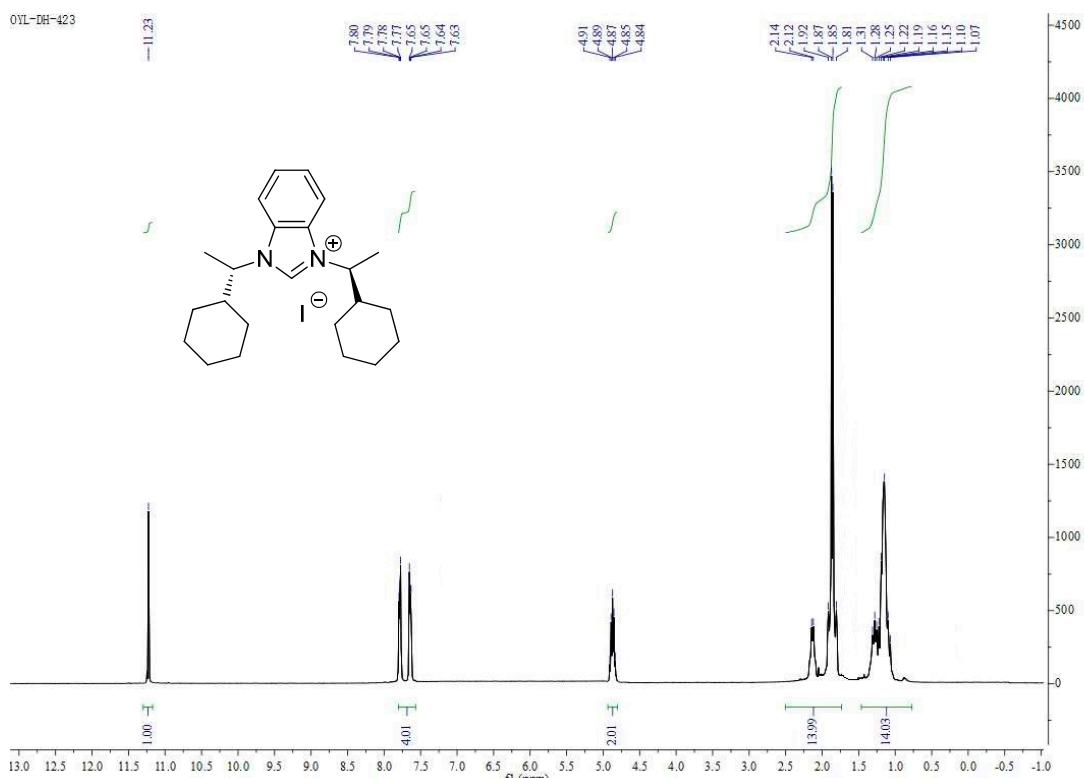
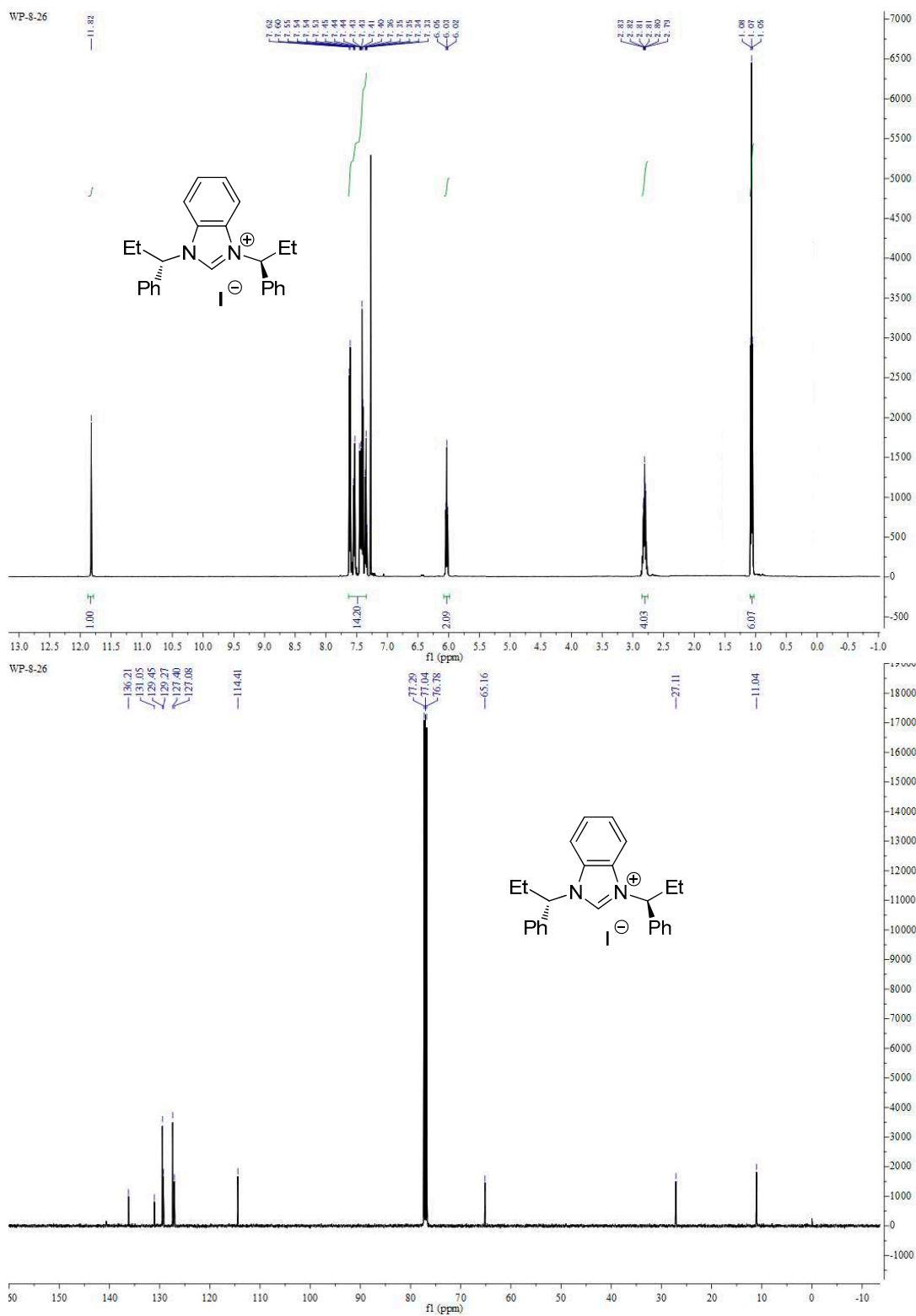


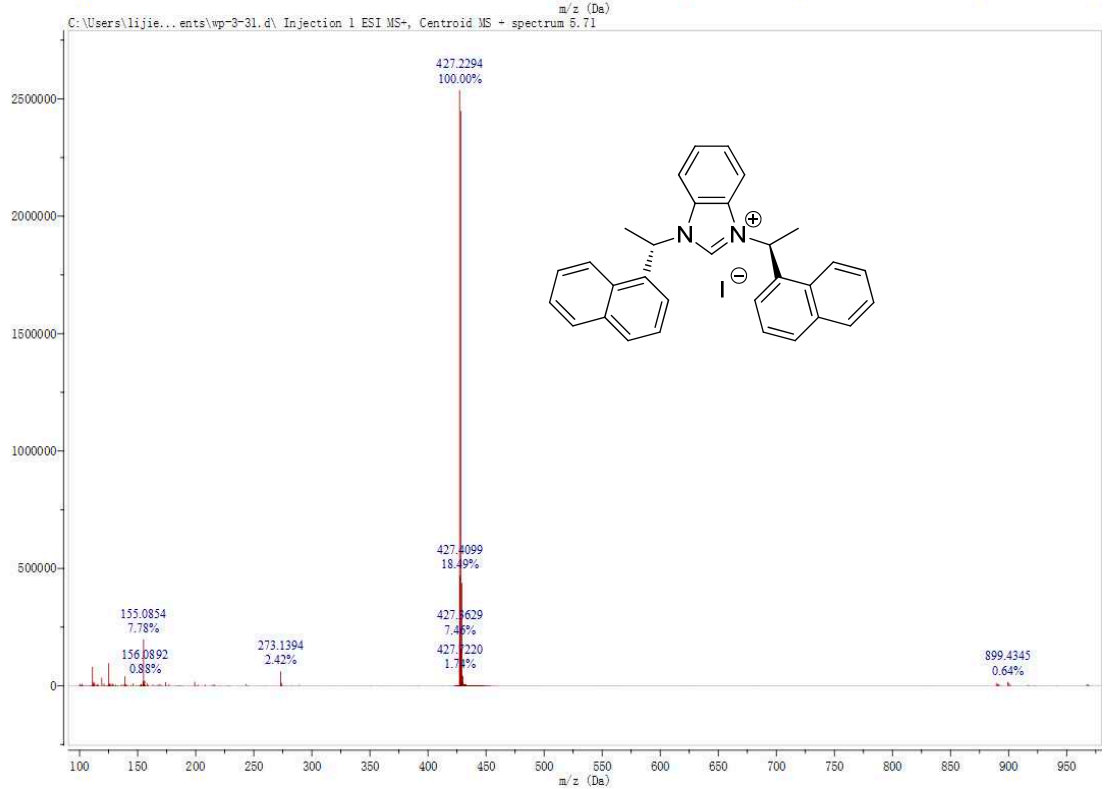
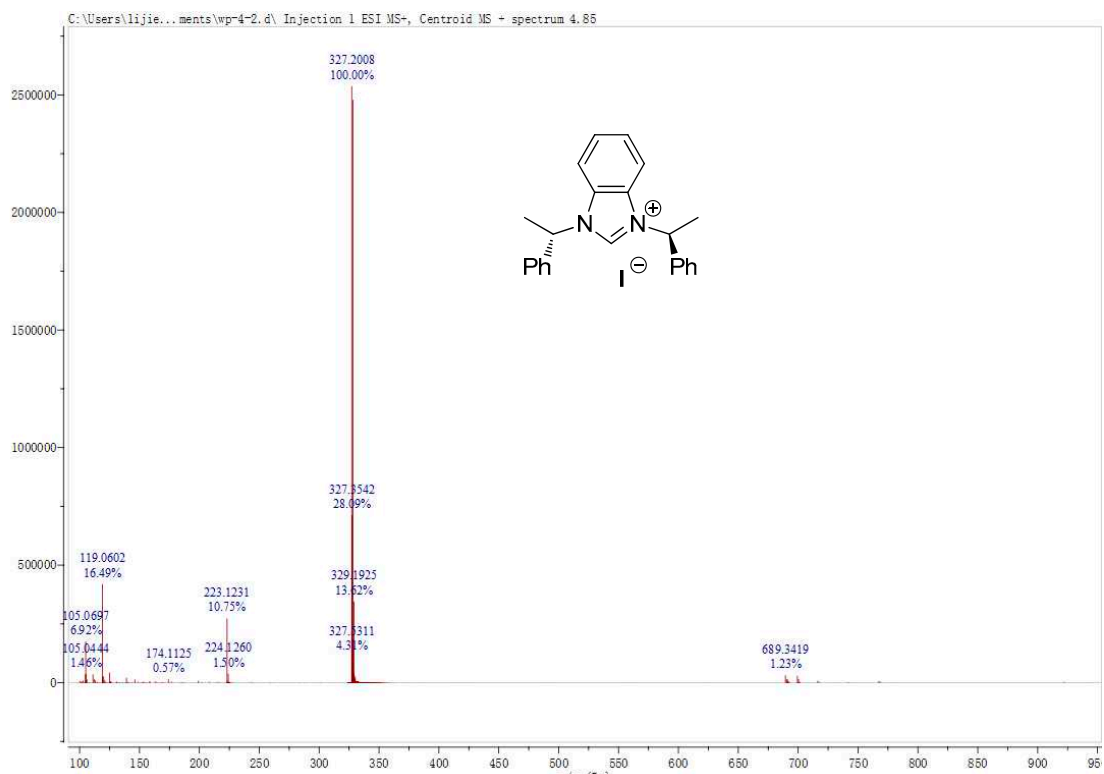
Figure S1. <sup>1</sup>H-NMR Spectra of compounds 1a-d.







Figure S2. <sup>1</sup>H and <sup>13</sup>C-NMR Spectra of compounds 3a–d.



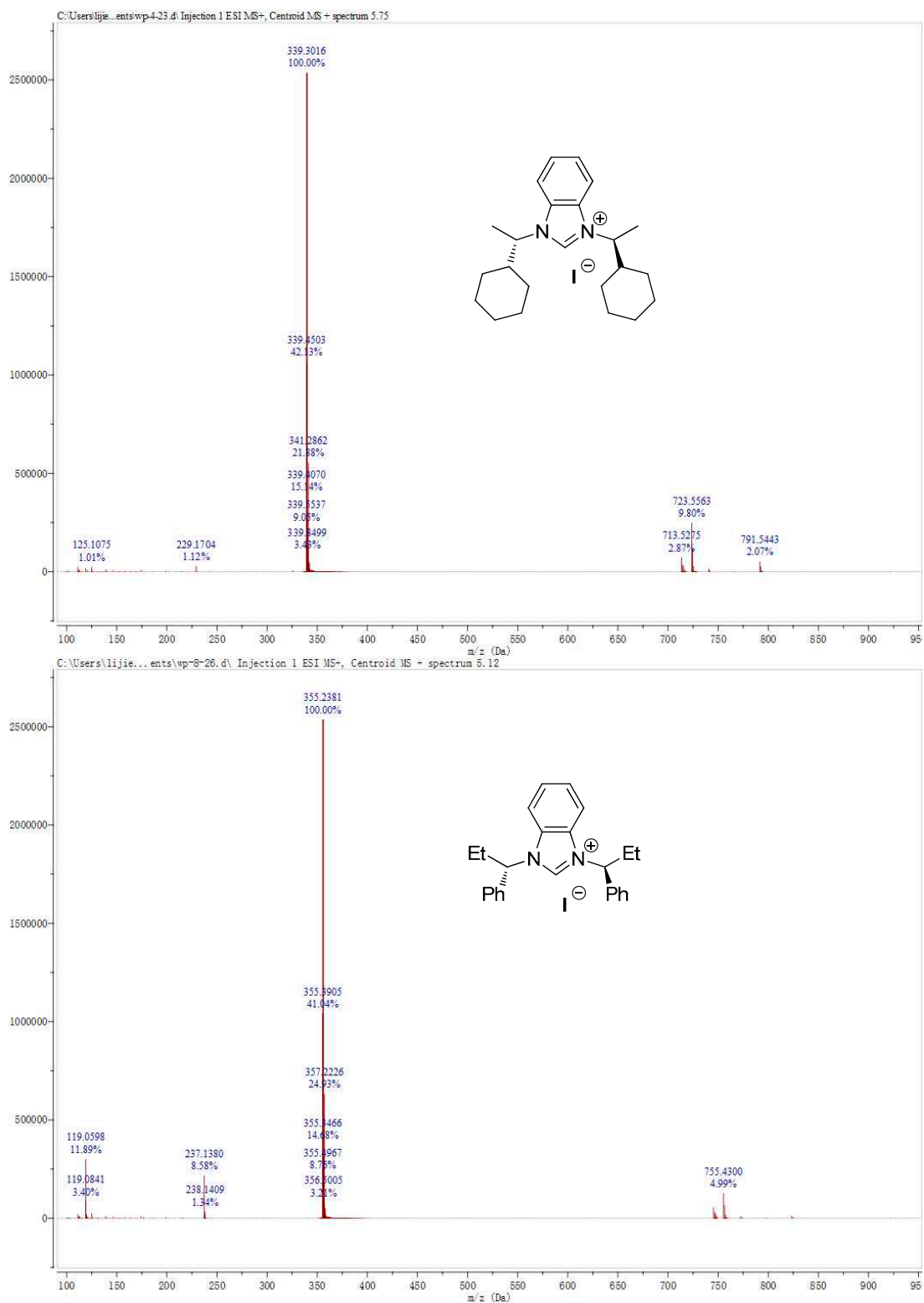


Figure S3. HR-MS Spectra for compounds 3a-d.