

Supporting Information

Synthesis of Electroactive Multinuclear Dipyrrinato Complexes and Fe(III) Assisted Formation of α -Alkoxy Substituted 5-Ferrocenyldipyrromethenes

Rakesh Kumar Gupta, Rampal Pandey, Sanjeev Sharma and Daya Shankar Pandey*

Department of Chemistry, Faculty of Science, Banaras Hindu University, Varanasi - 221 005
(U.P.) India

Contents

1. NMR spectra of 1-8.....S2-S15
2. Interesting Motifs Resulting from weak interaction.....S16-S17
3. ESI-MS spectra of 1-5S18-S23
4. CV and DPV of 3 and 4 in cathodic window.....S24-S25

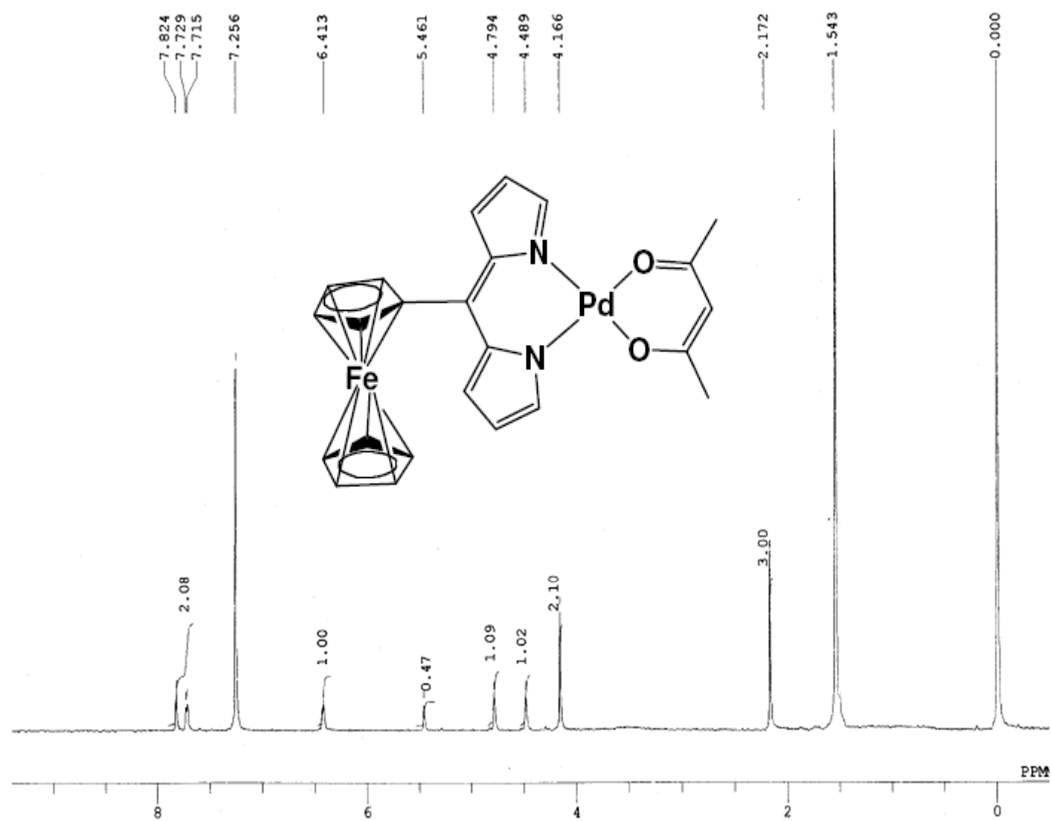


Fig. S1 ^1H NMR spectrum of **1** in CDCl_3

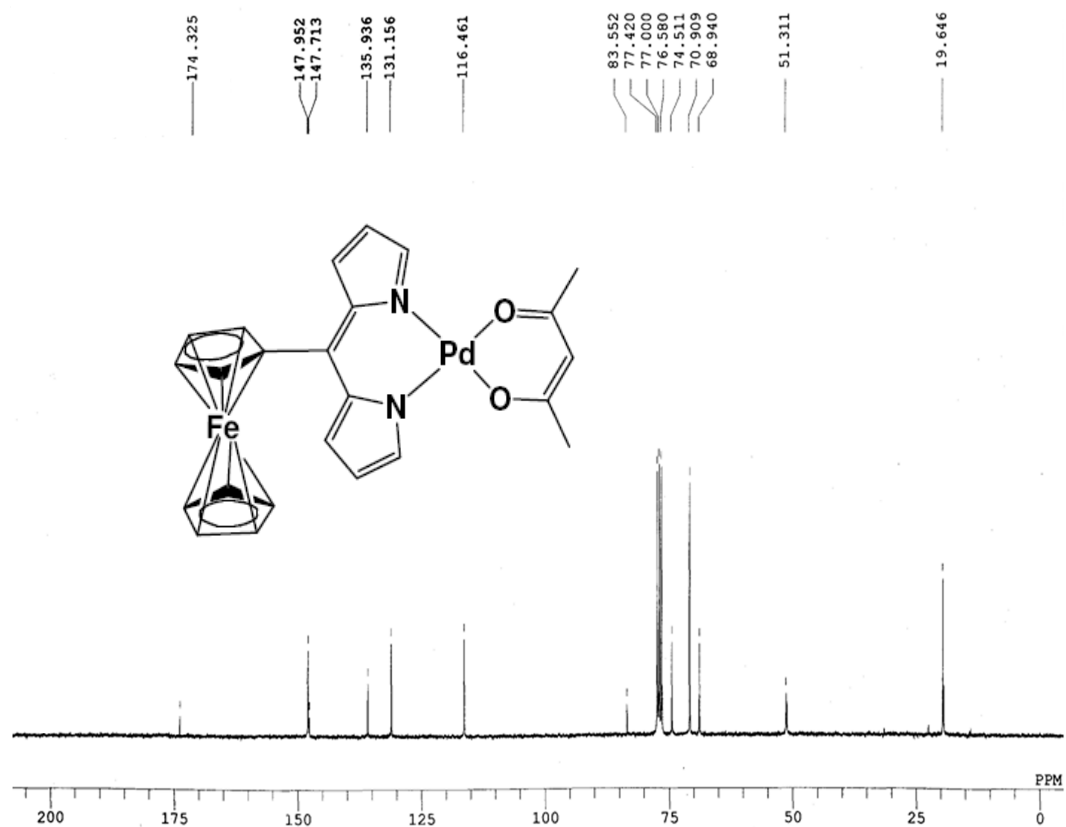


Fig. S2 ^{13}C NMR spectrum of **1** in CDCl_3

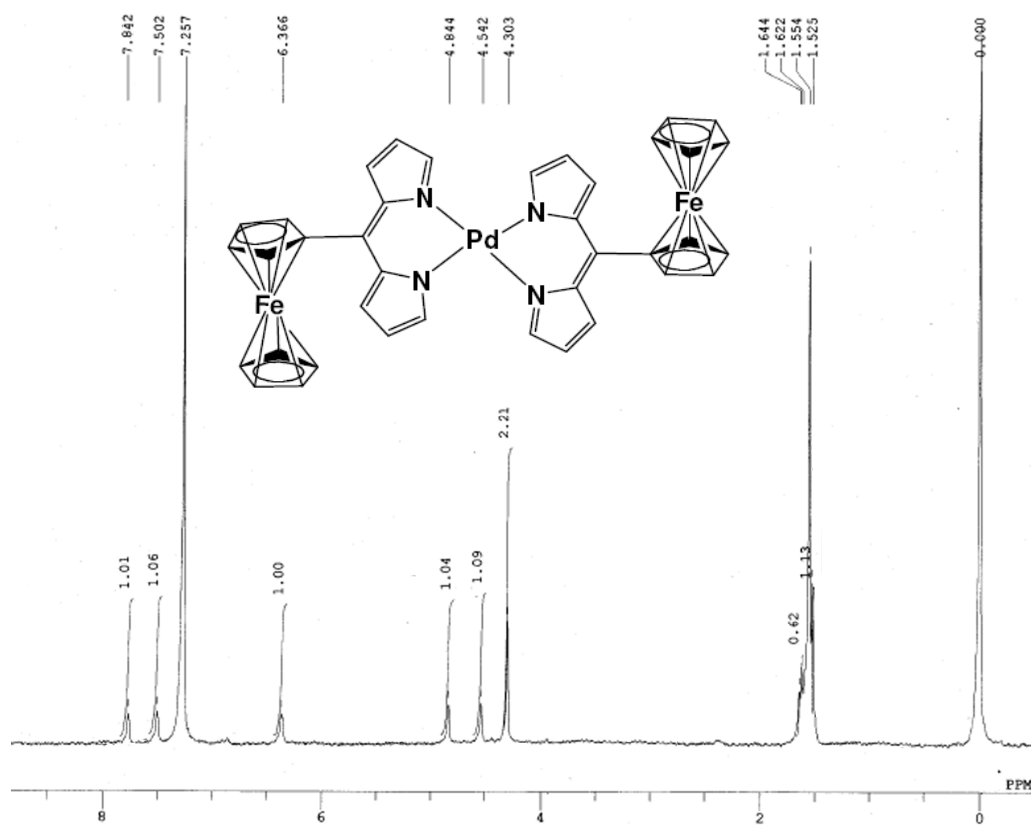


Fig. S3 ¹H NMR spectrum of **2** in CDCl₃

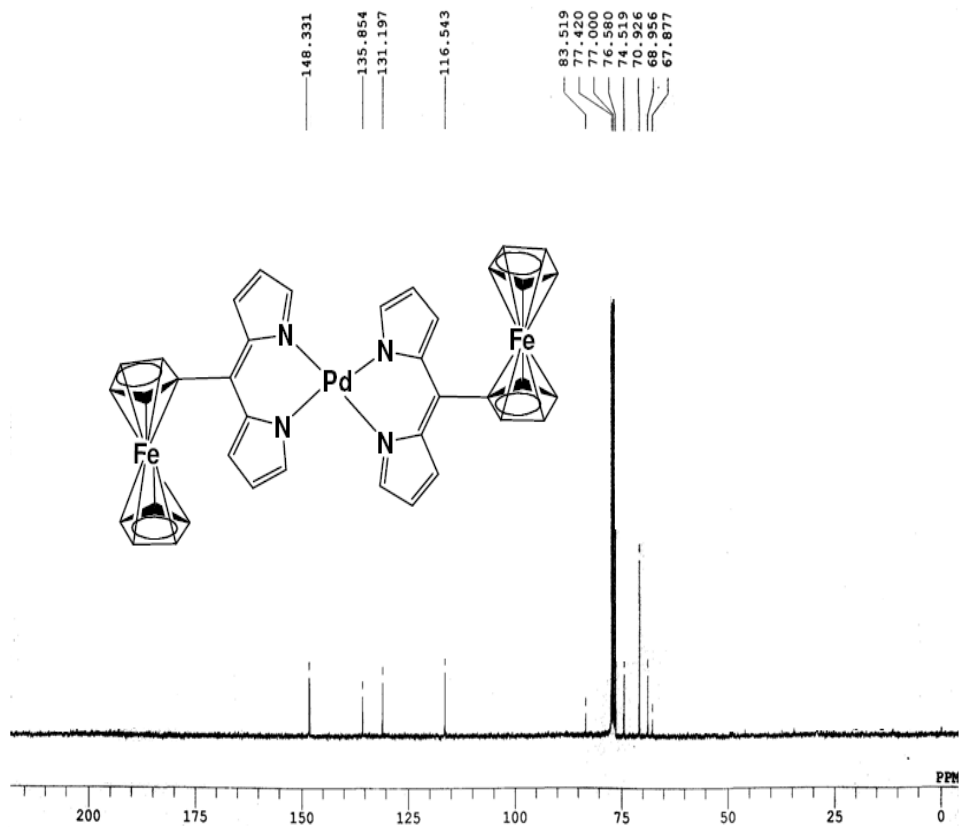


Fig. S4 ^{13}C NMR spectrum of **2** in CDCl_3

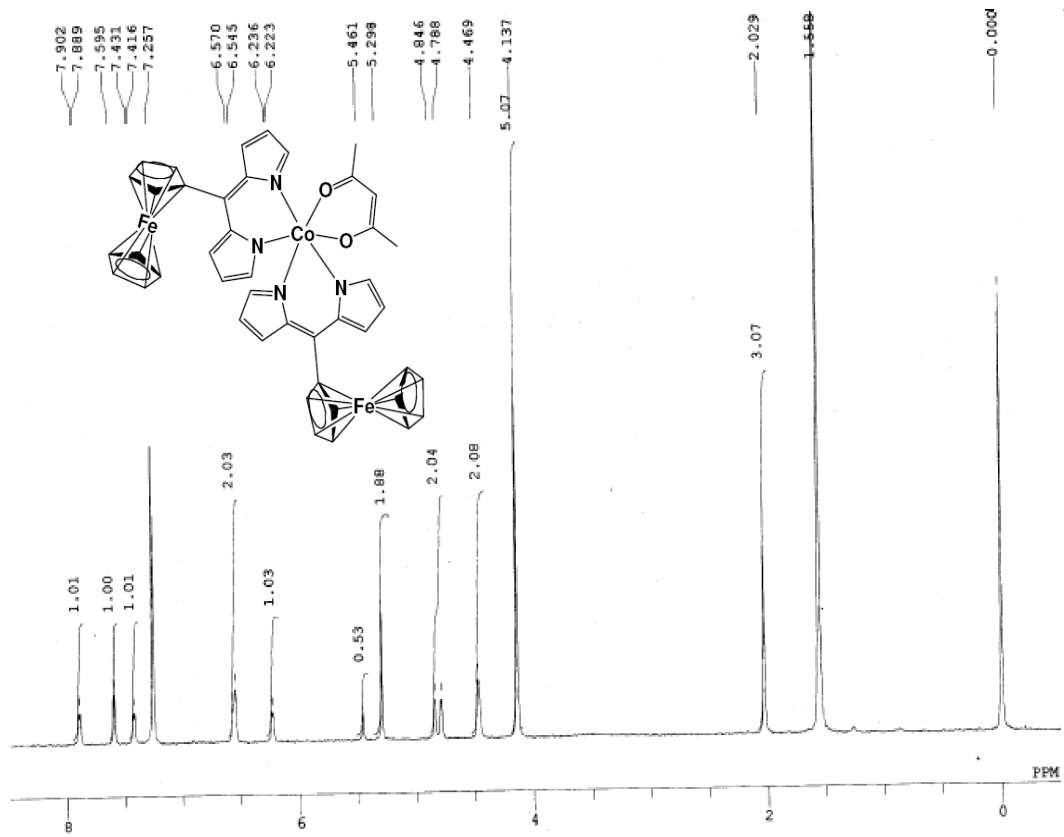


Fig. S5 ^1H NMR spectrum of **3** in CDCl_3

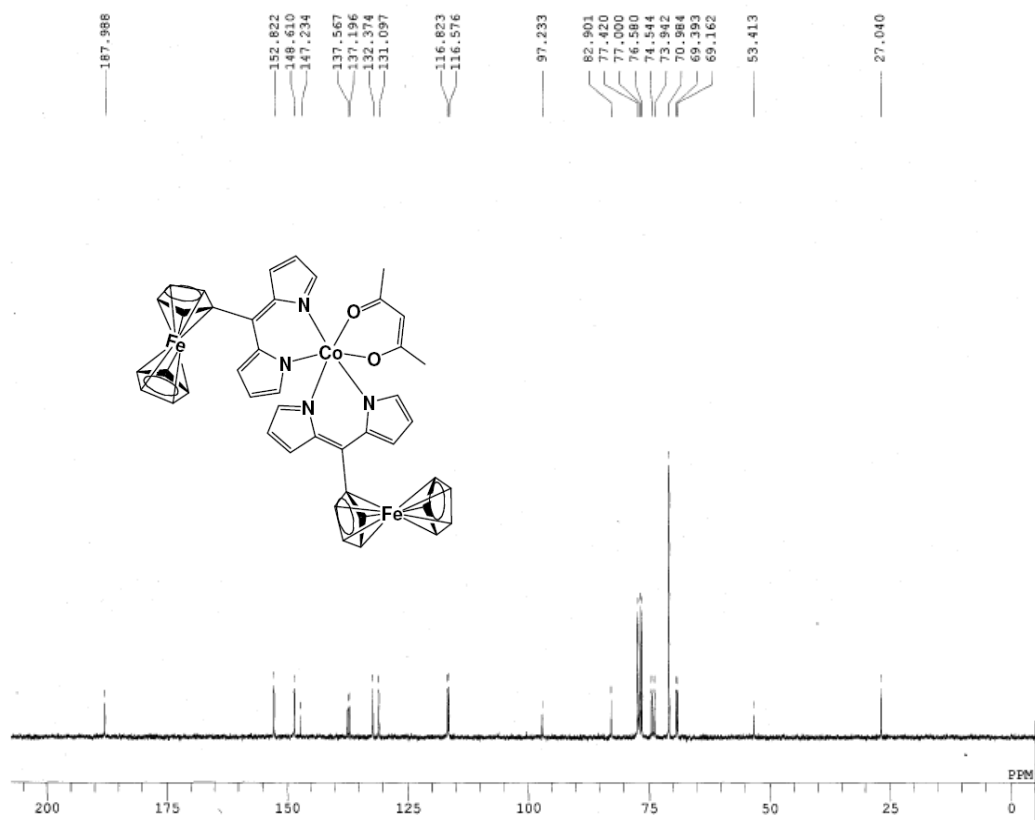


Fig. S6 ¹³C NMR spectrum of **3** in CDCl₃

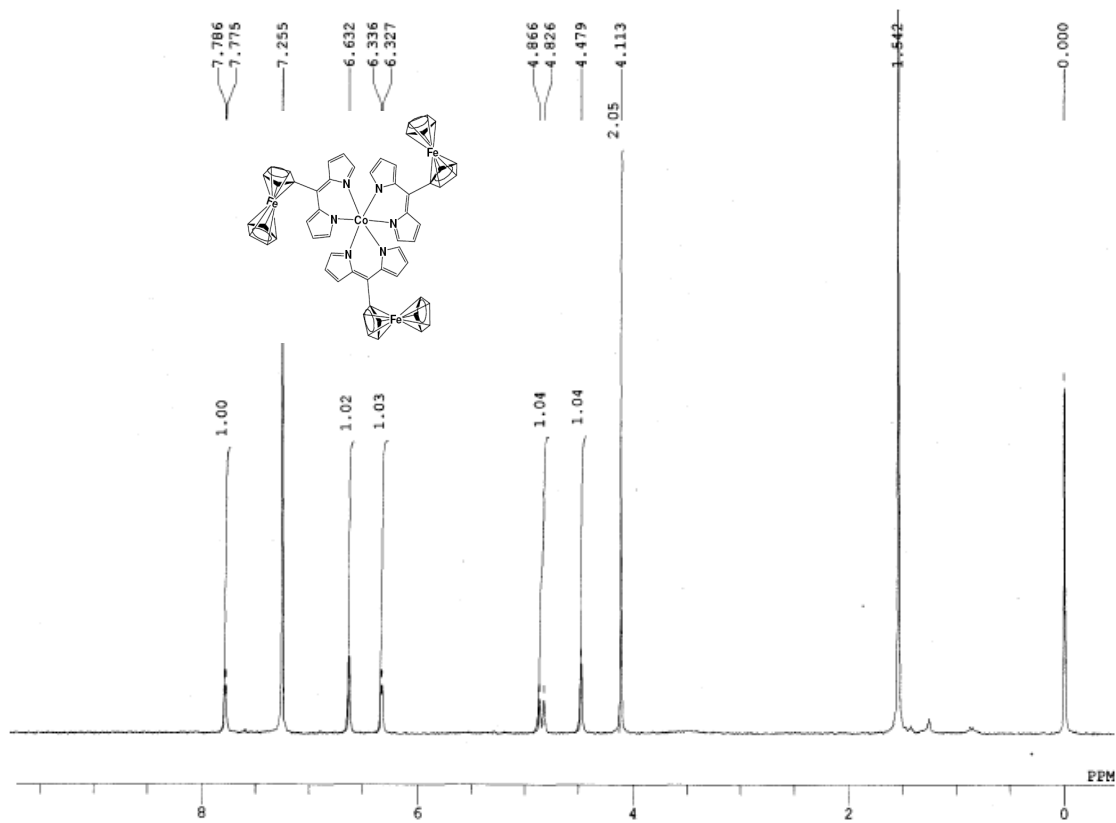


Fig. S7 ^1H NMR spectrum of **4** in CDCl_3

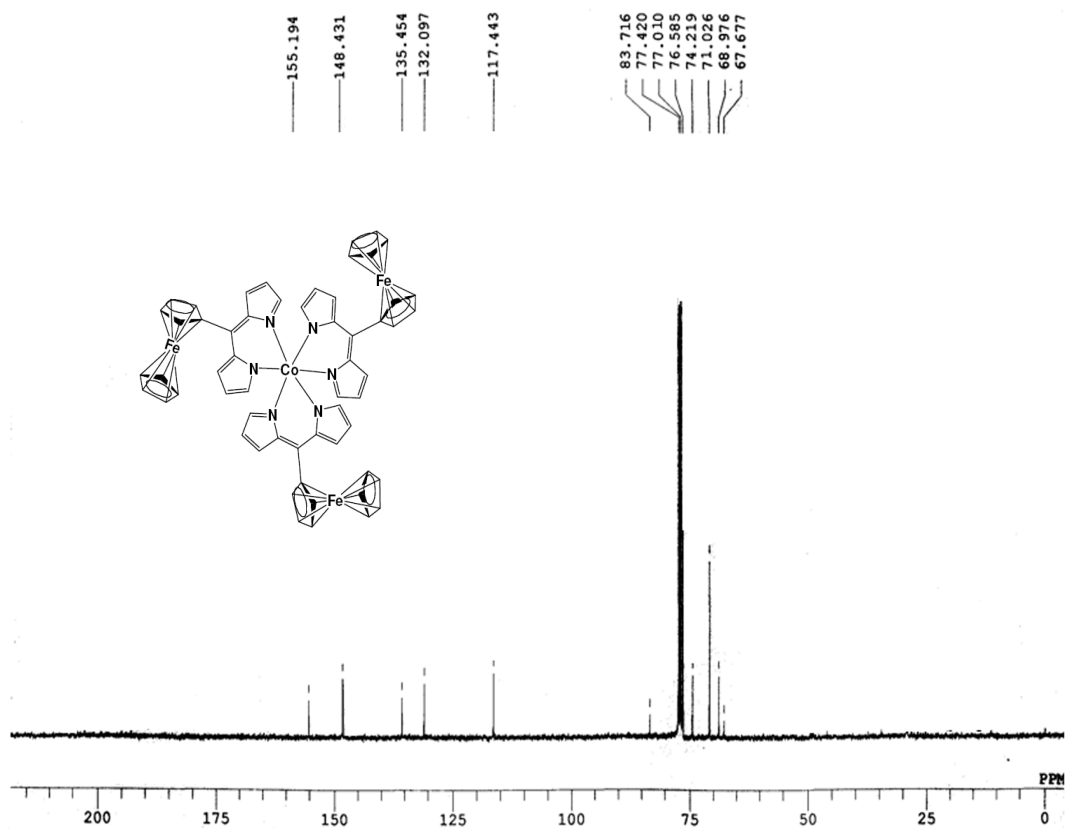


Fig. S8 ^{13}C NMR spectrum of **4** in CDCl_3

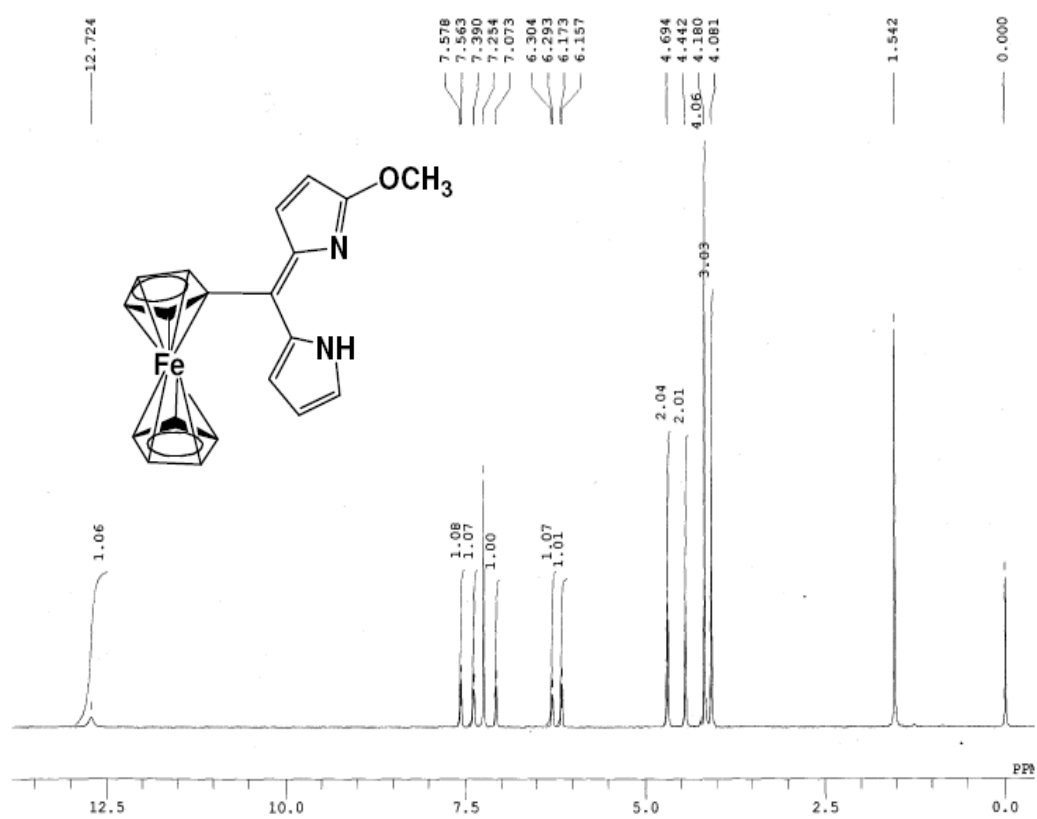


Fig. S9 ¹H NMR spectrum of **5** in CDCl₃

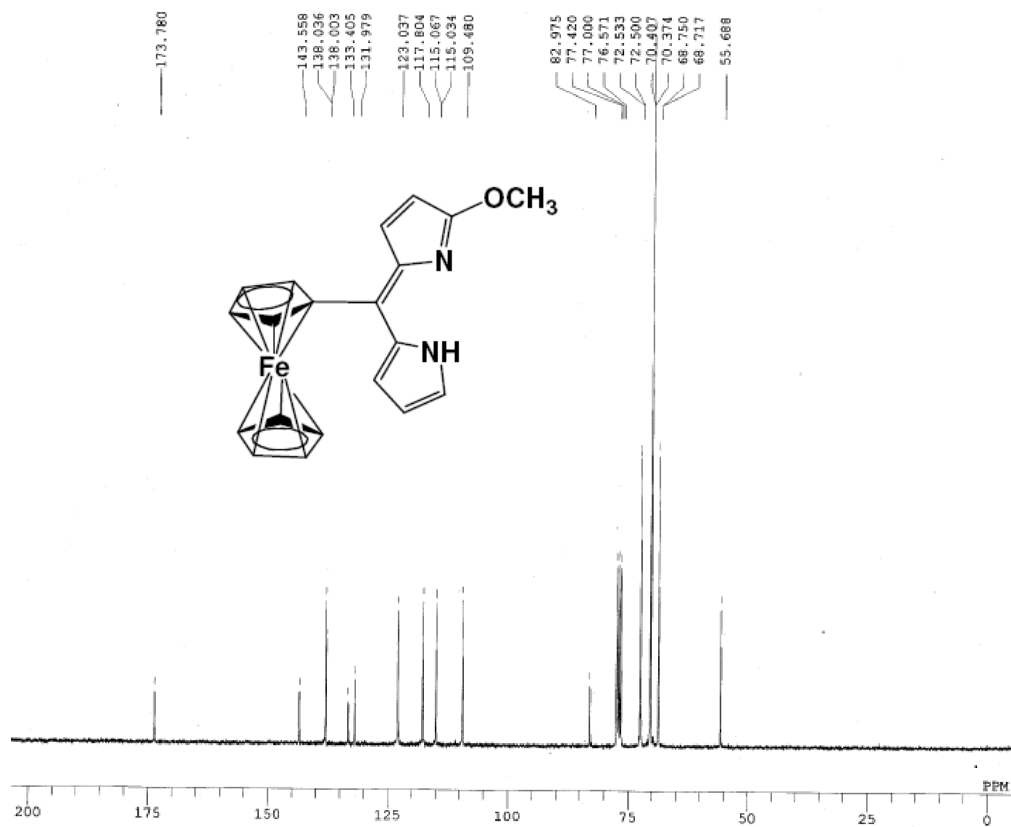


Fig. S10 ^{13}C NMR spectrum of **5** in CDCl_3

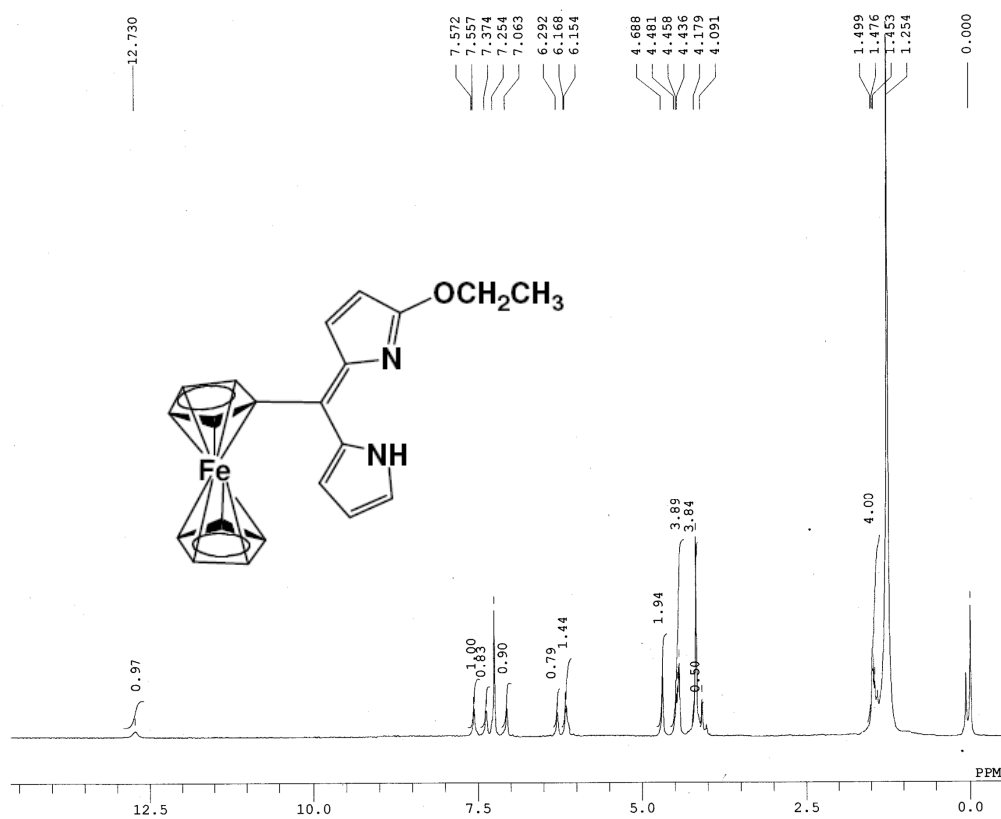


Fig. S11 ^1H NMR spectrum of **6** in CDCl_3

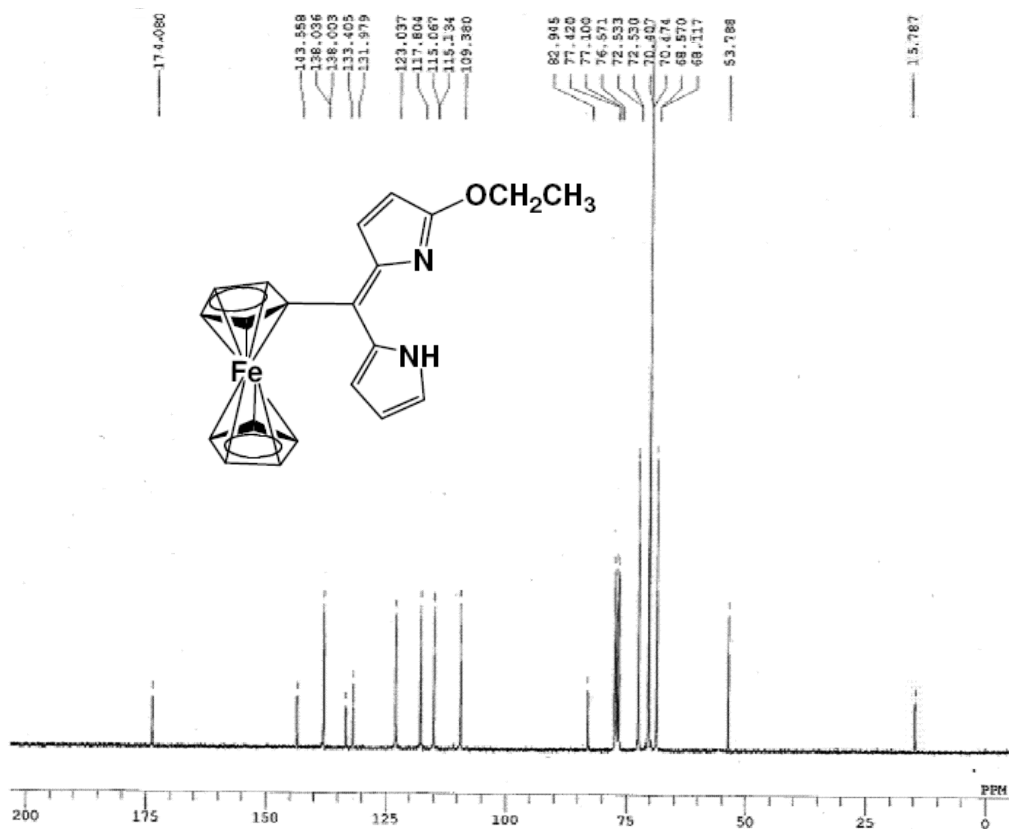


Fig. S12 ^{13}C NMR spectrum of **6** in CDCl_3

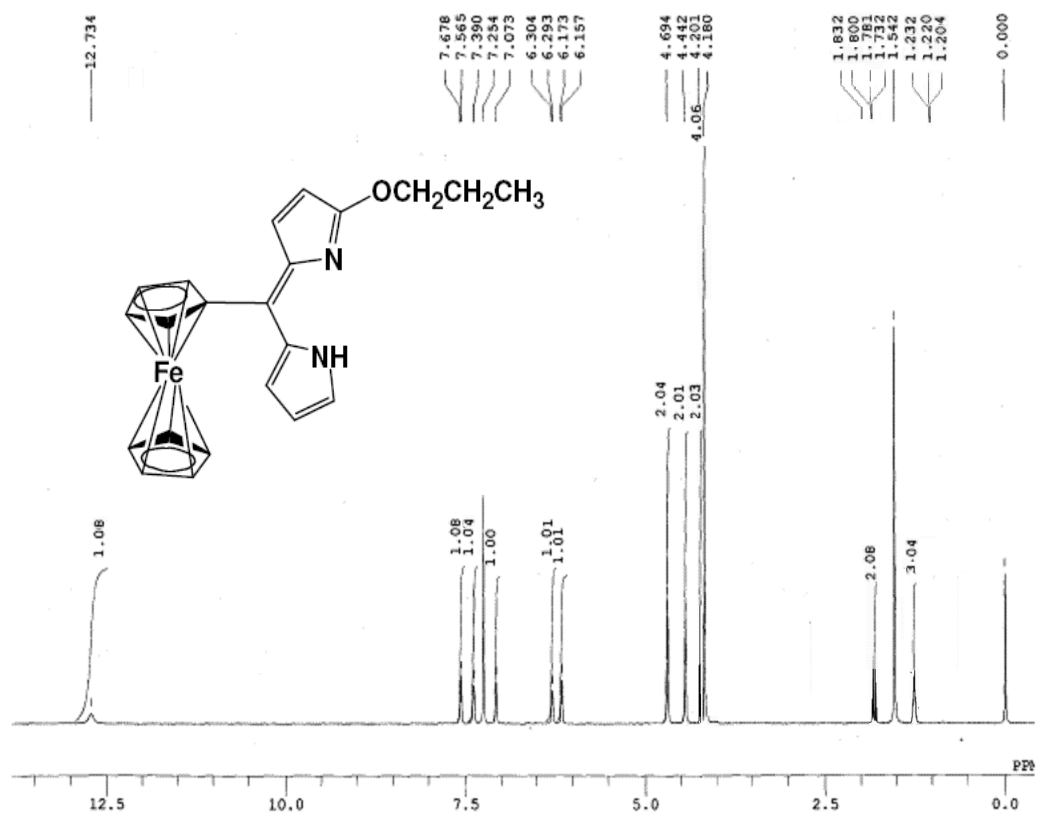


Fig. S13 ^1H NMR spectrum of **7** in CDCl_3

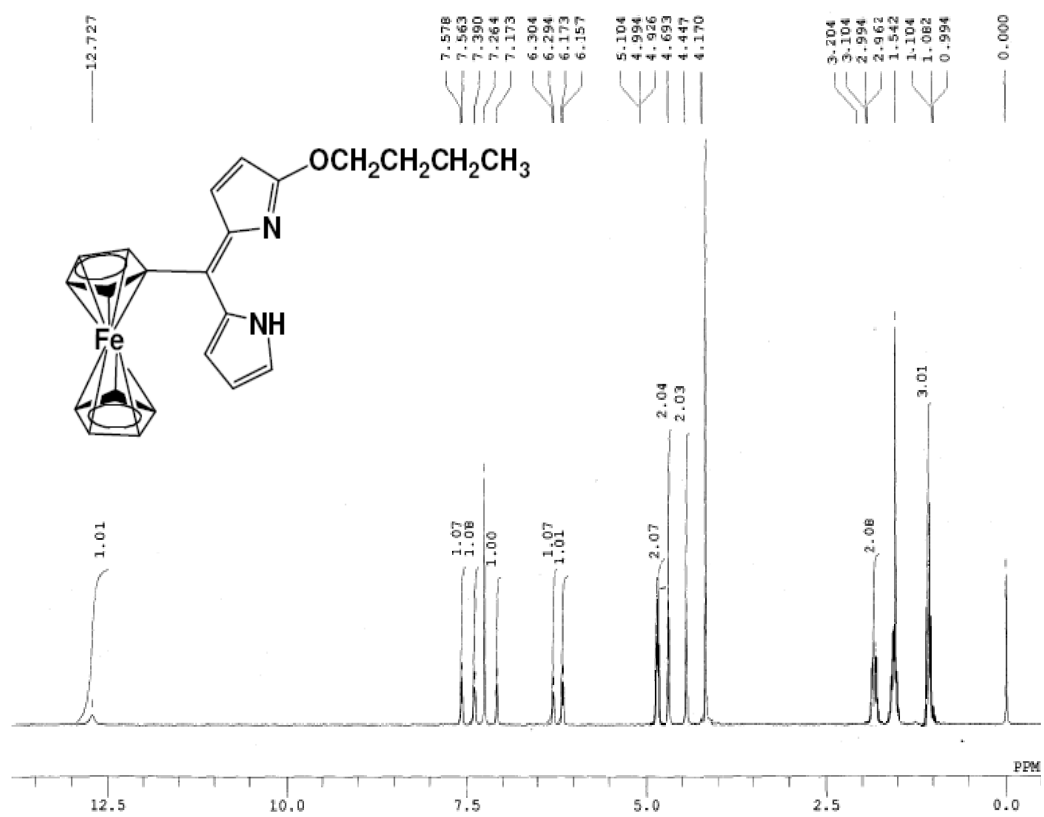


Fig. S14 ^1H NMR spectrum of **8** in CDCl_3

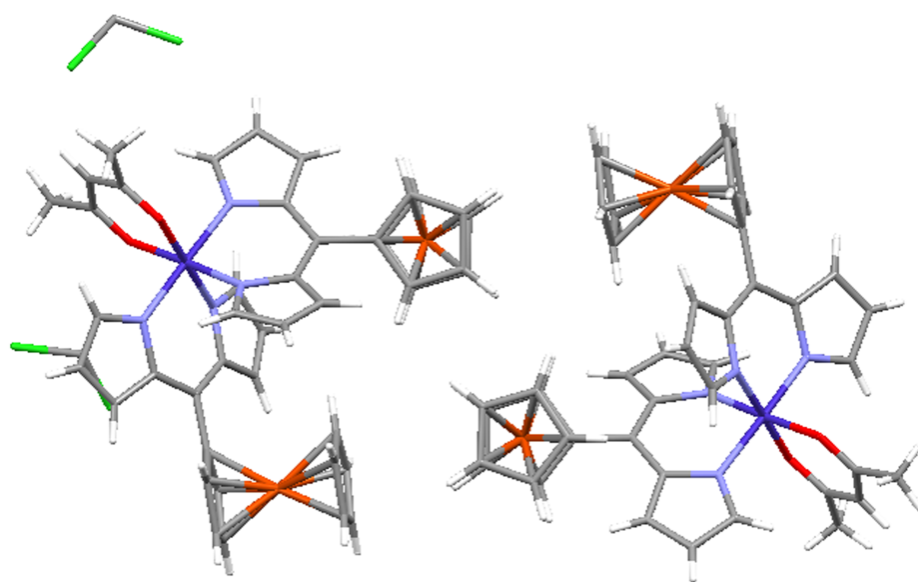


Fig. S15 Head to tail arrangement in **3** resulting from C-H $\cdots\pi$ weak interactions

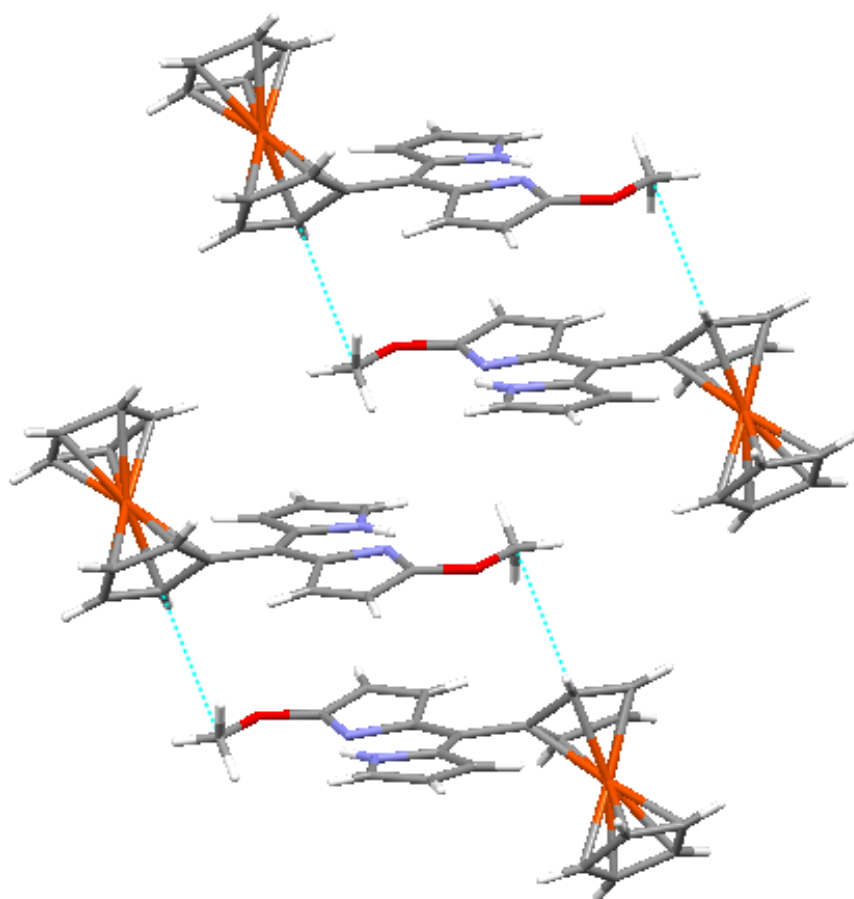


Fig. S16 C-H... π interactions leading to zig-zag motif in **5**

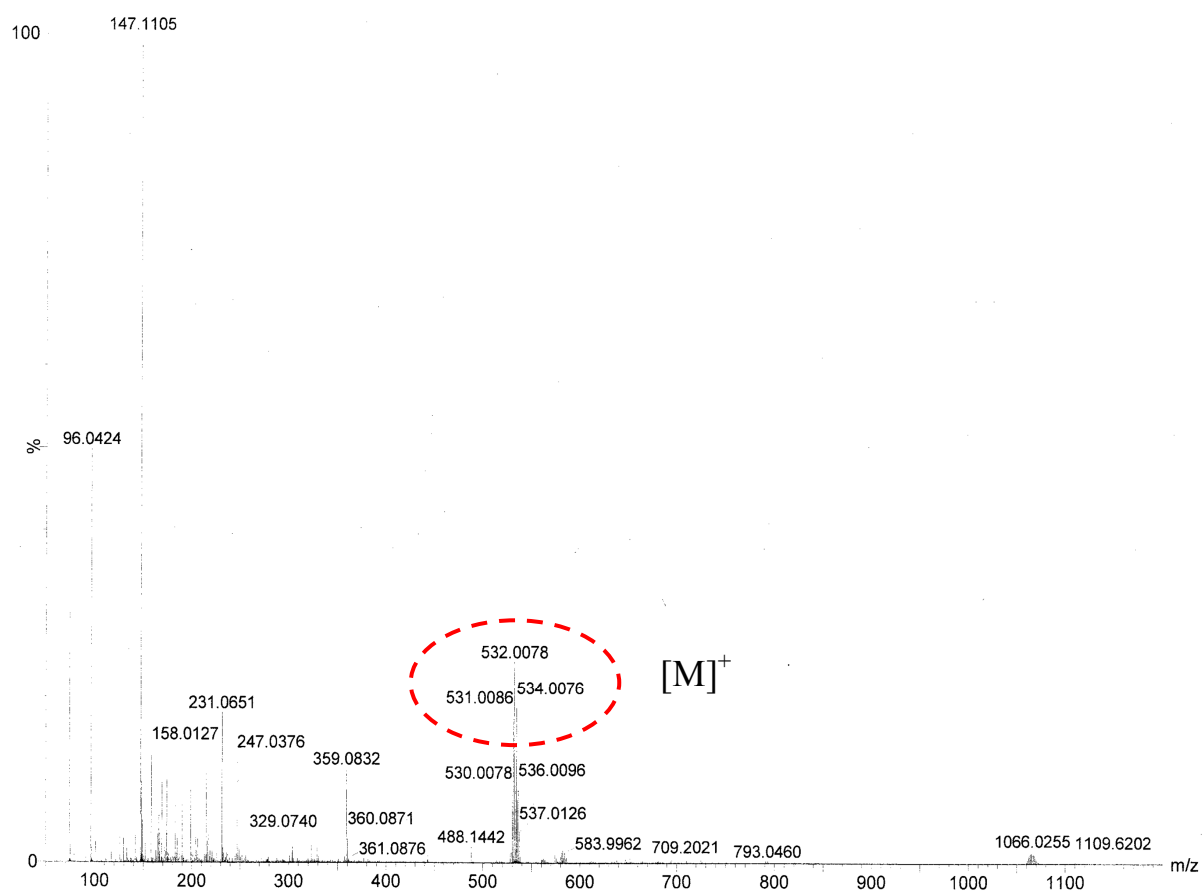


Fig. S17 ESI-MS spectrum of **1**

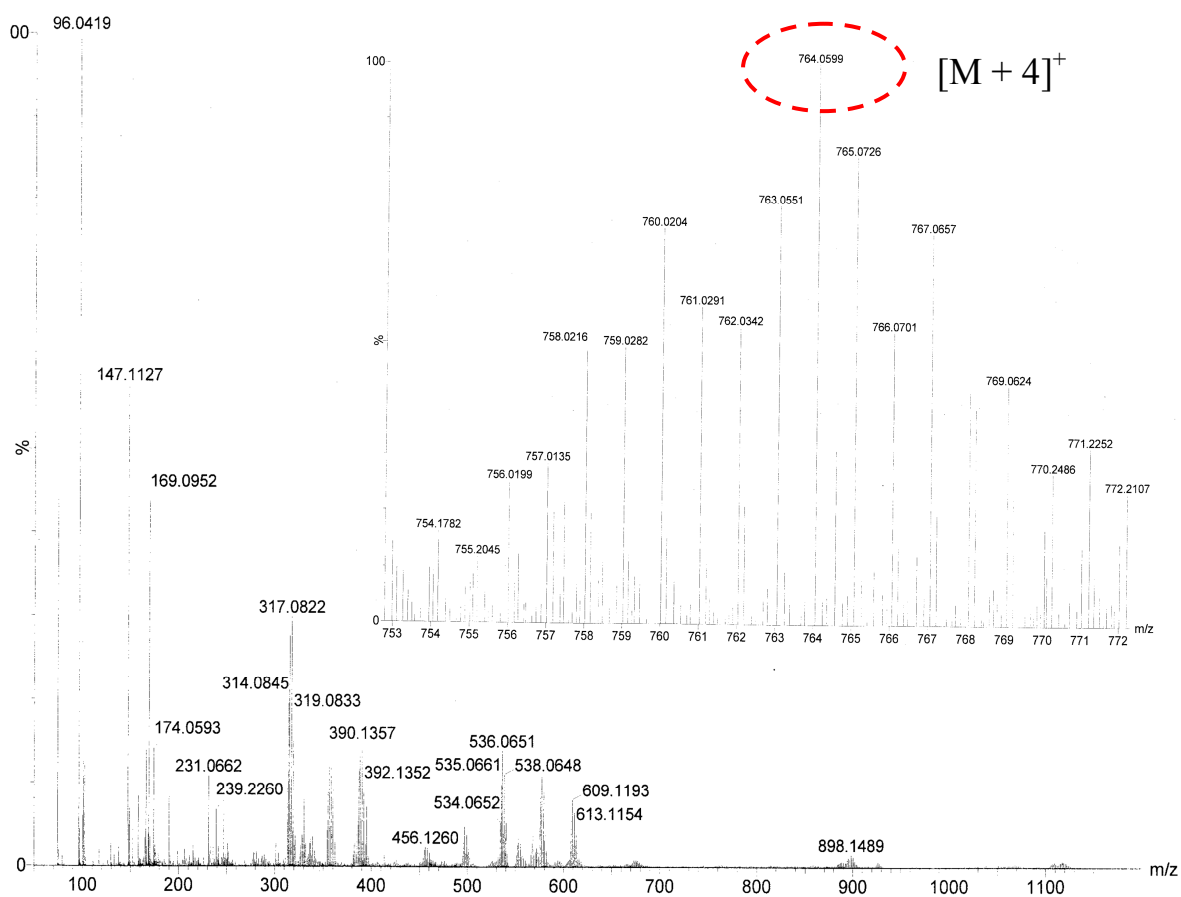


Fig. S18 ESI-MS spectrum of **2**

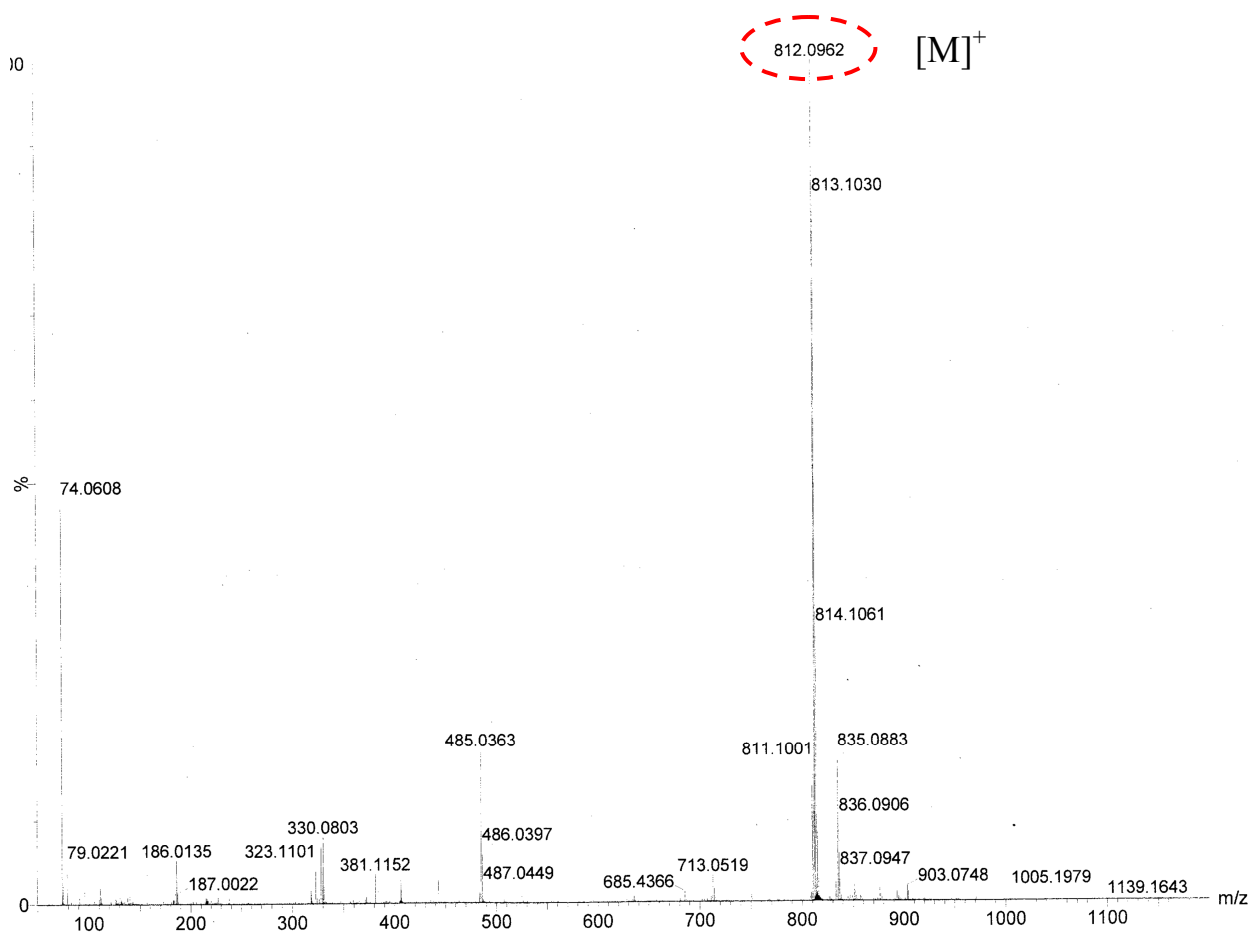


Fig. S19 ESI-MS spectrum of **3**

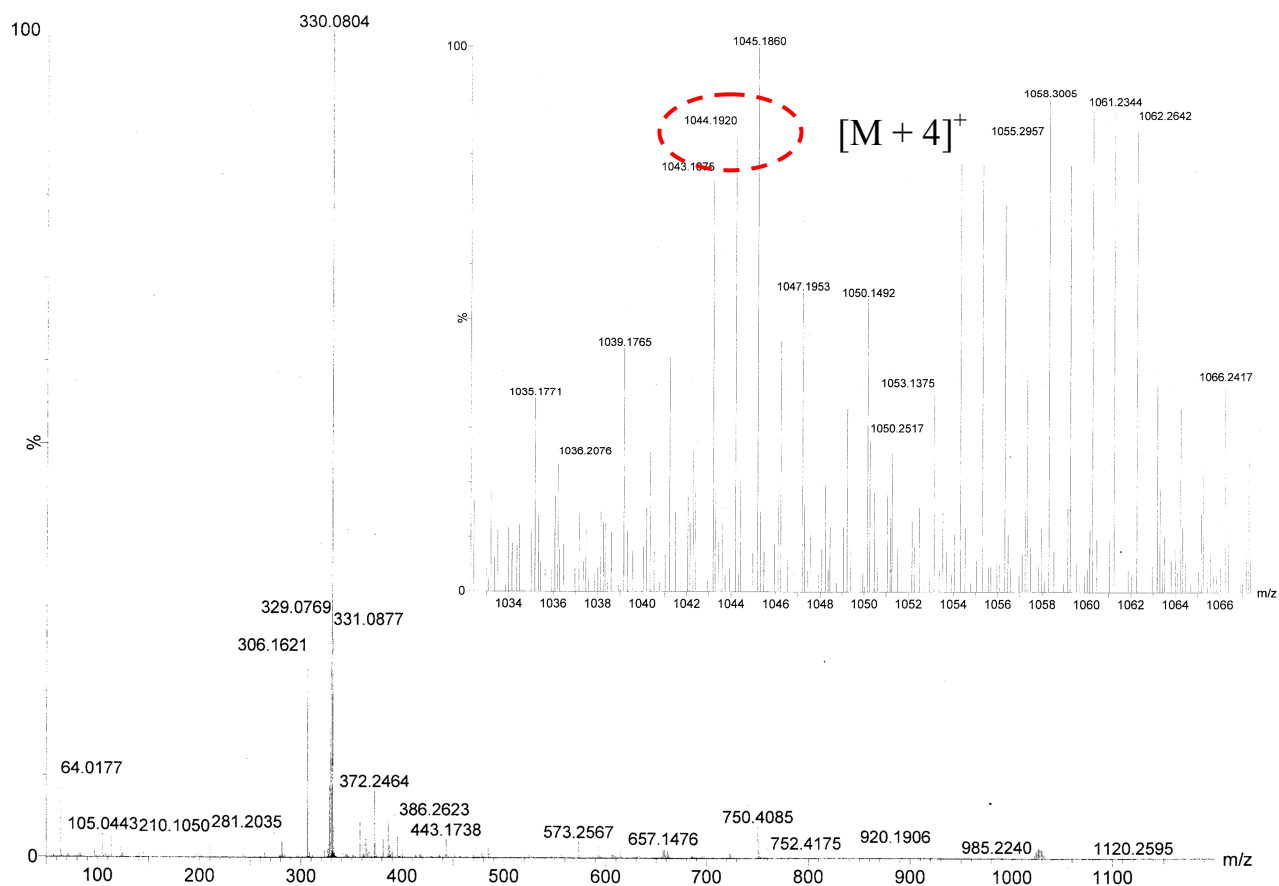


Fig. S20 ESI-MS spectrum of 4

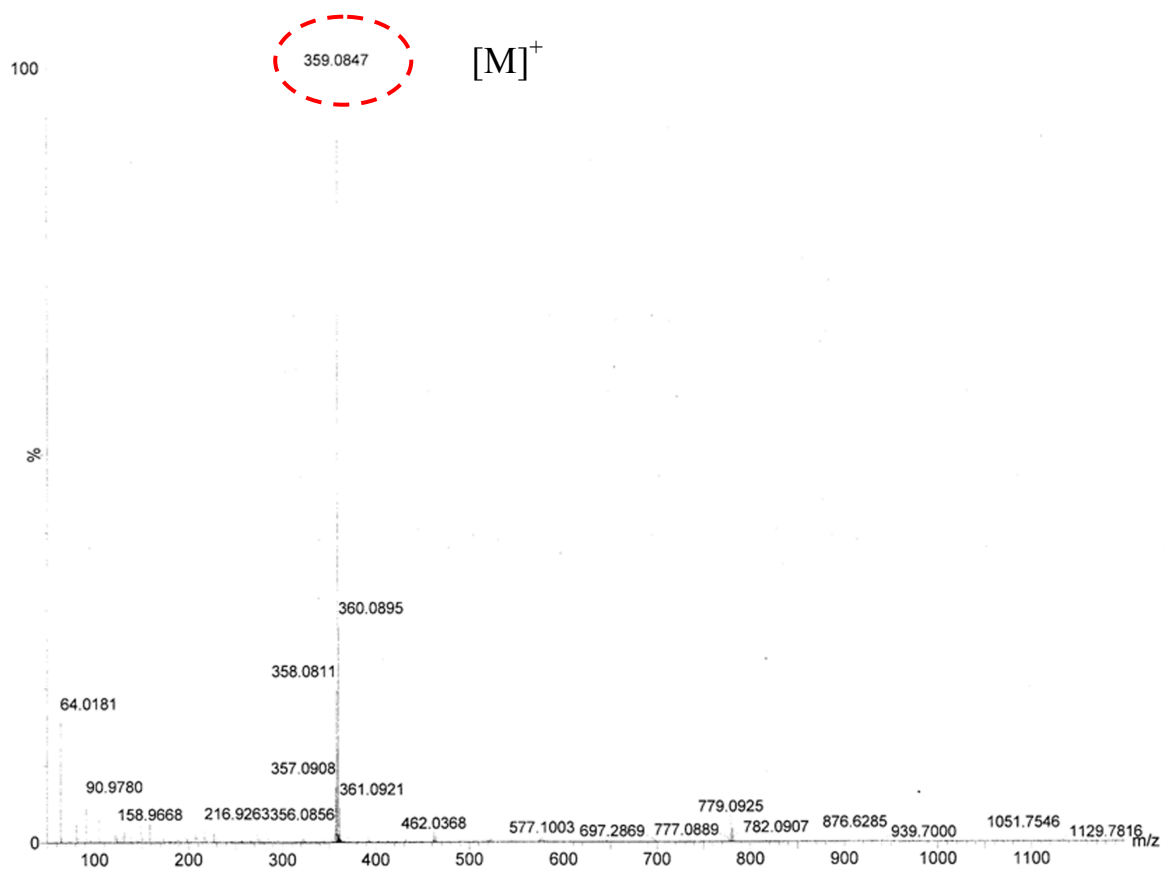


Fig. S21 ESI-MS spectrum of **5**

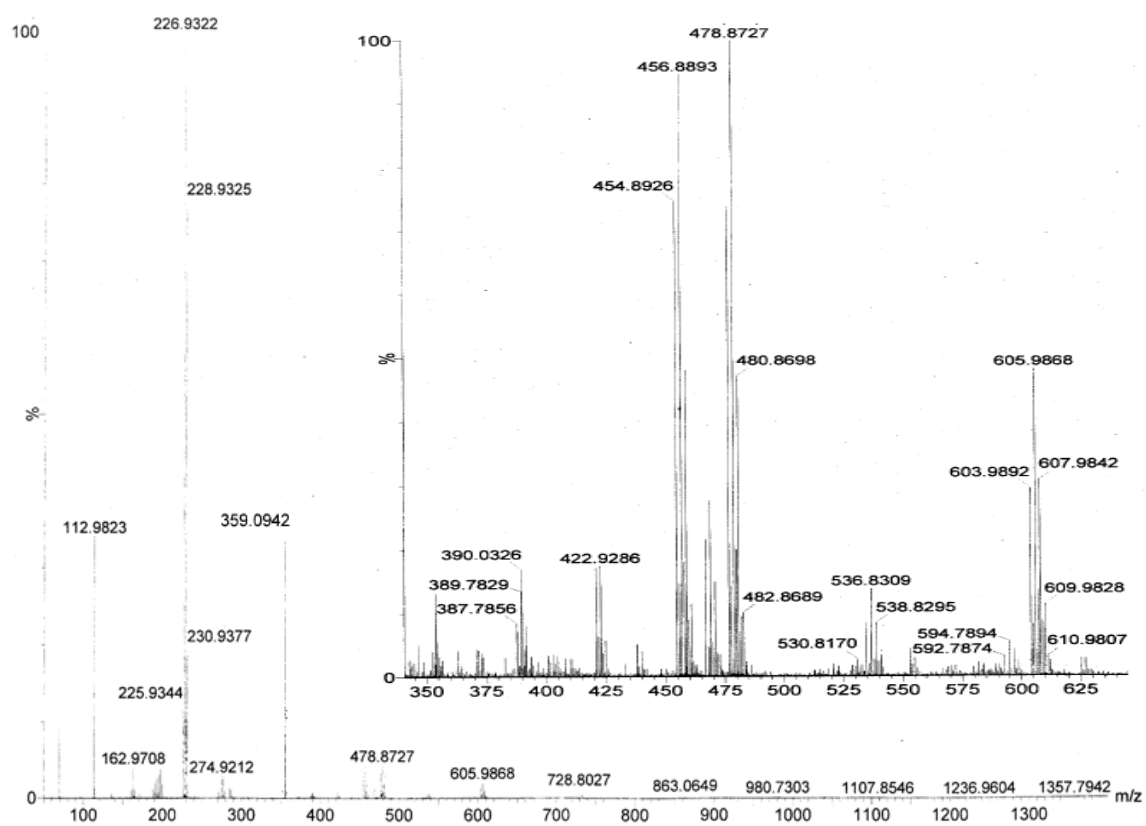
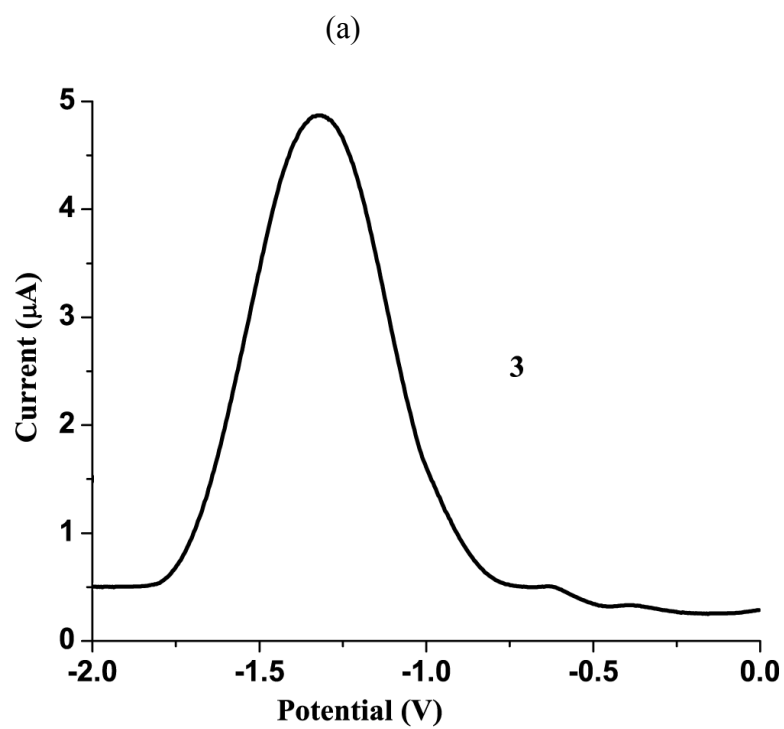
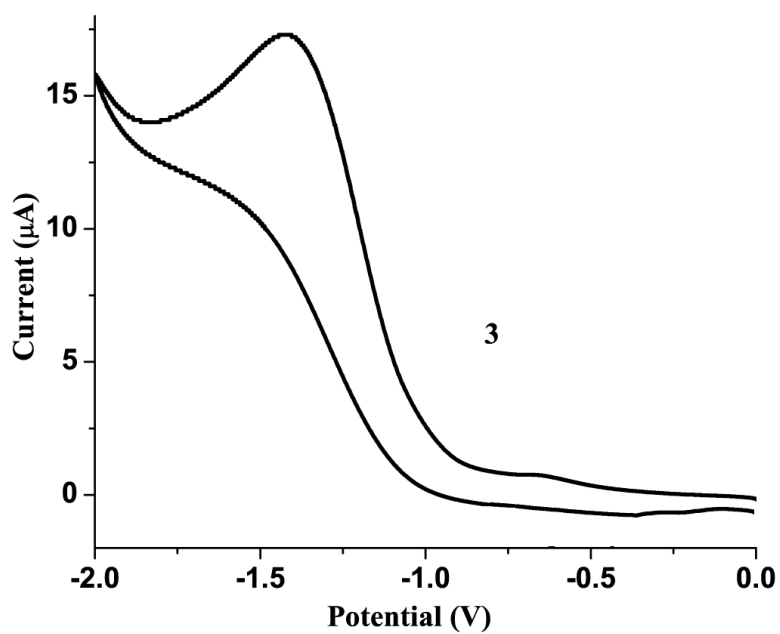
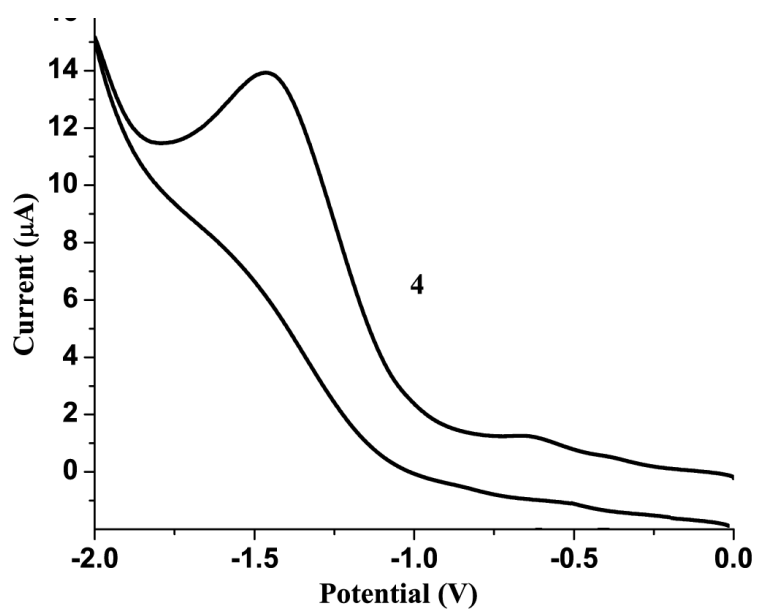


Fig. S22 ESI-MS spectrum of **5** (Crude Product)

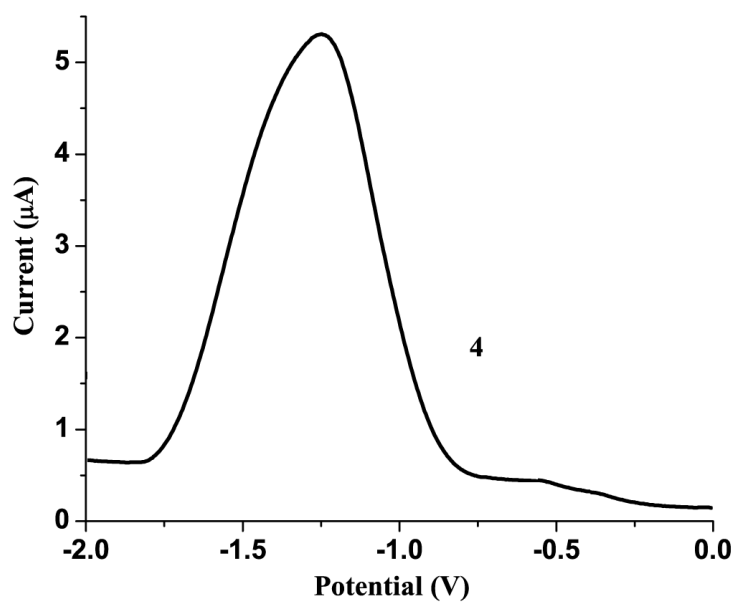


(b)

Fig. S23 Evolution of the CV (a) and DPV (b) of **3** (*c*, 100 μM, MeCN) at room temperature



(a)



(b)

Fig. S24 Evolution of the CV (a) and DPV (b) of 4 (c, 100 μM , MeCN) at room temperature