

## Supplementary Material

### An expedient synthesis of thienylacetic acids using the Willgerodt-Kindler reaction under PTC conditions

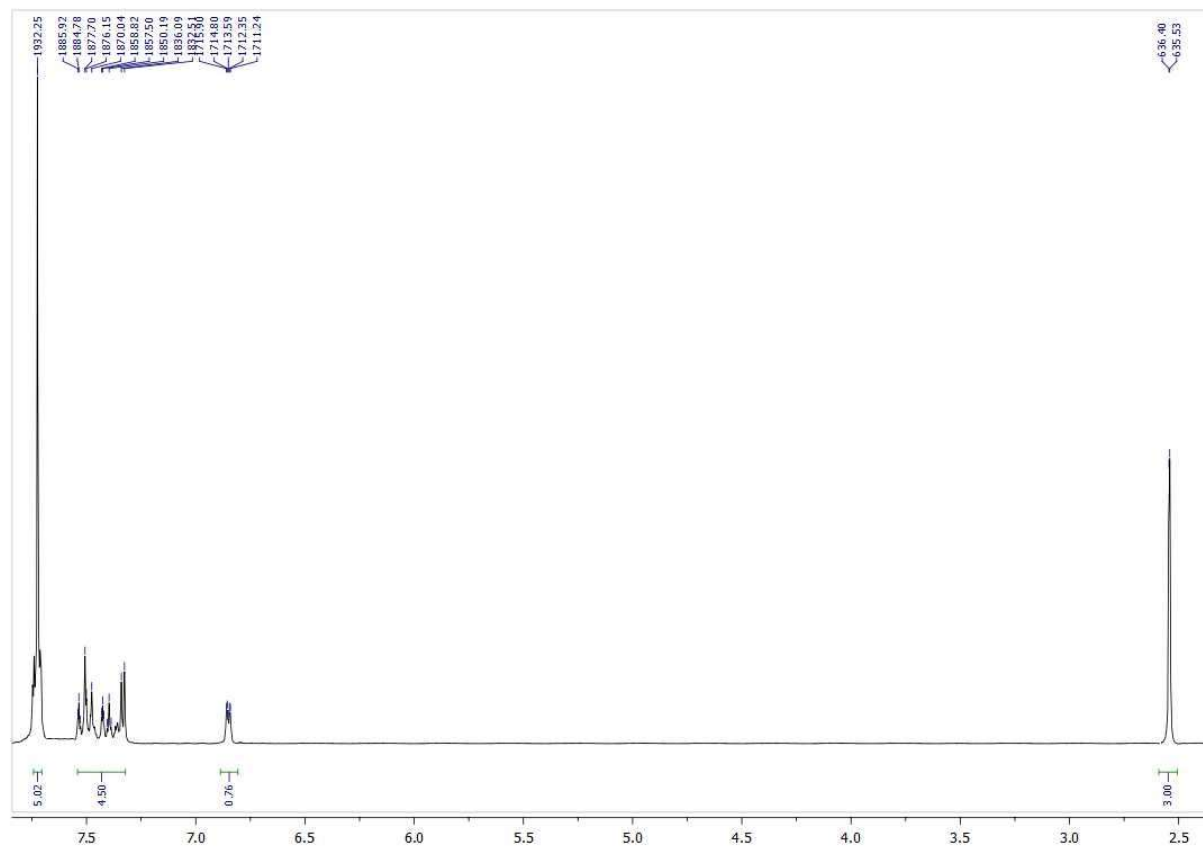
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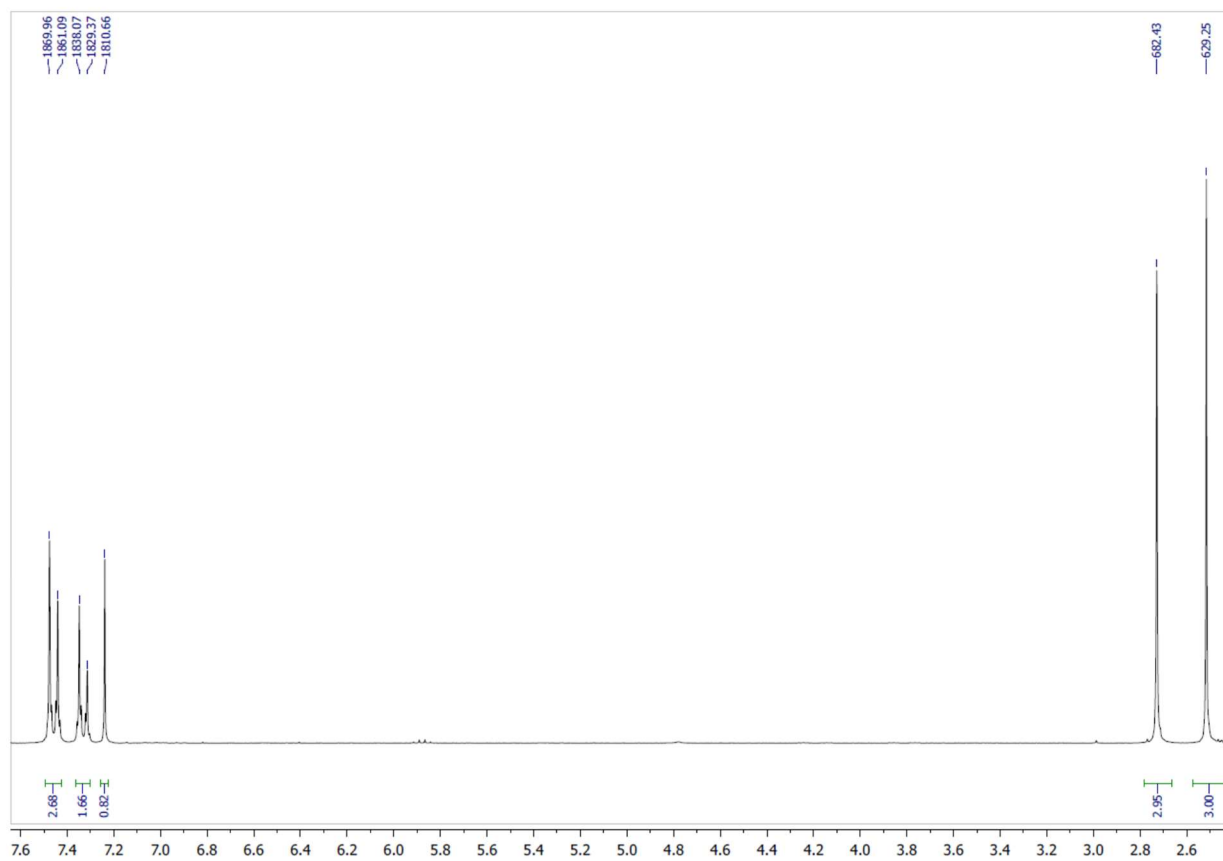
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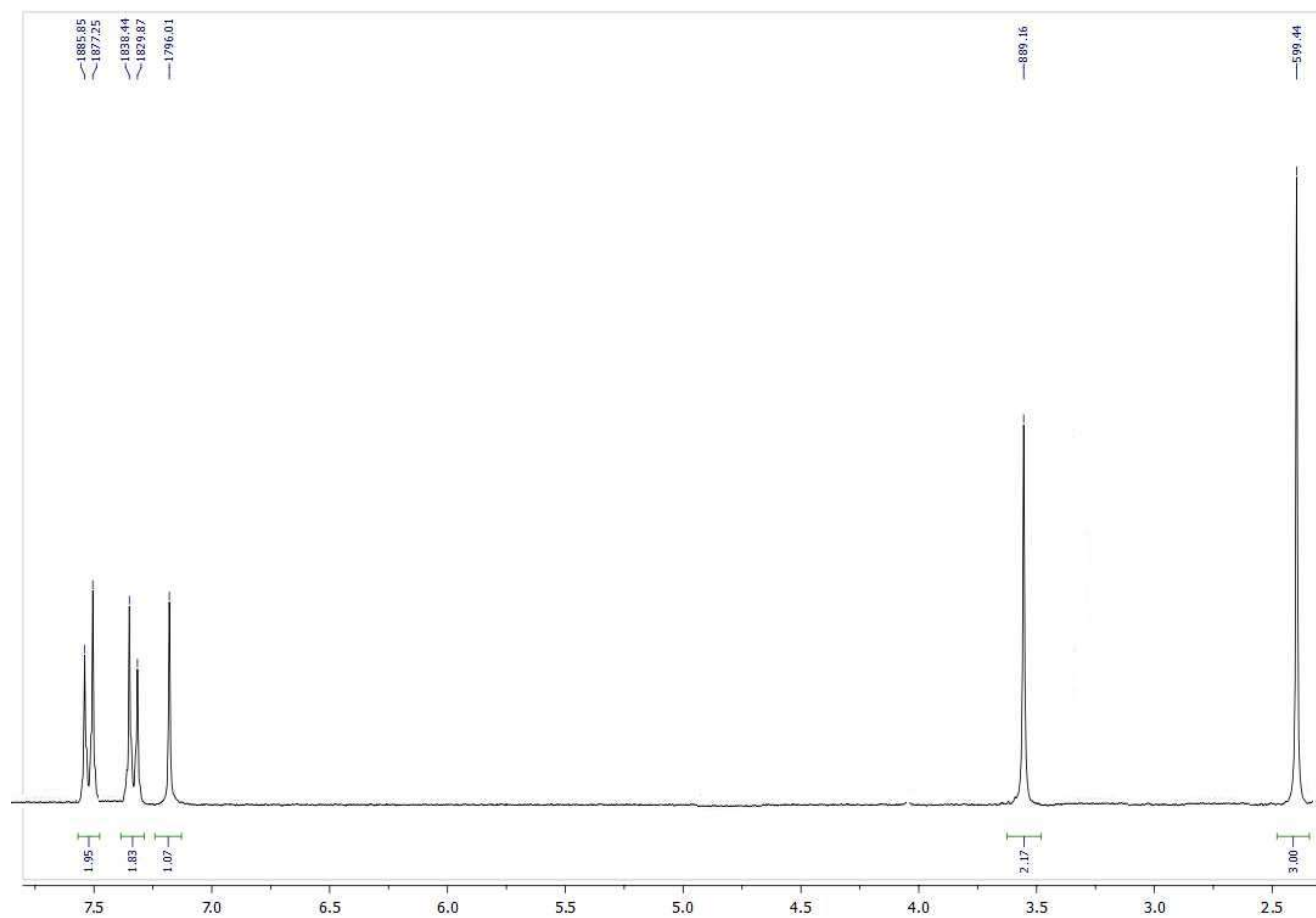
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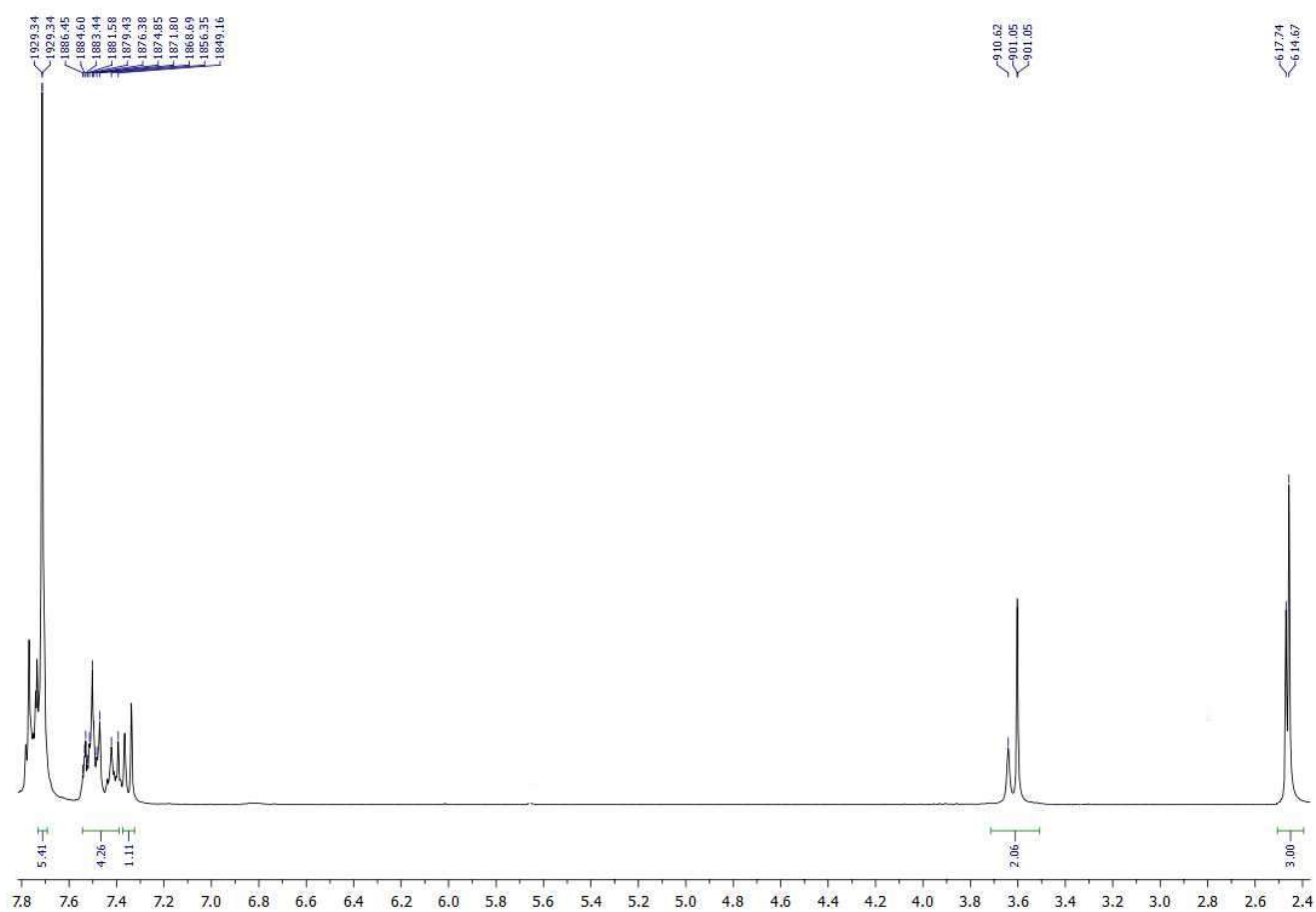
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2. <sup>13</sup> C NMR spectra.....	7

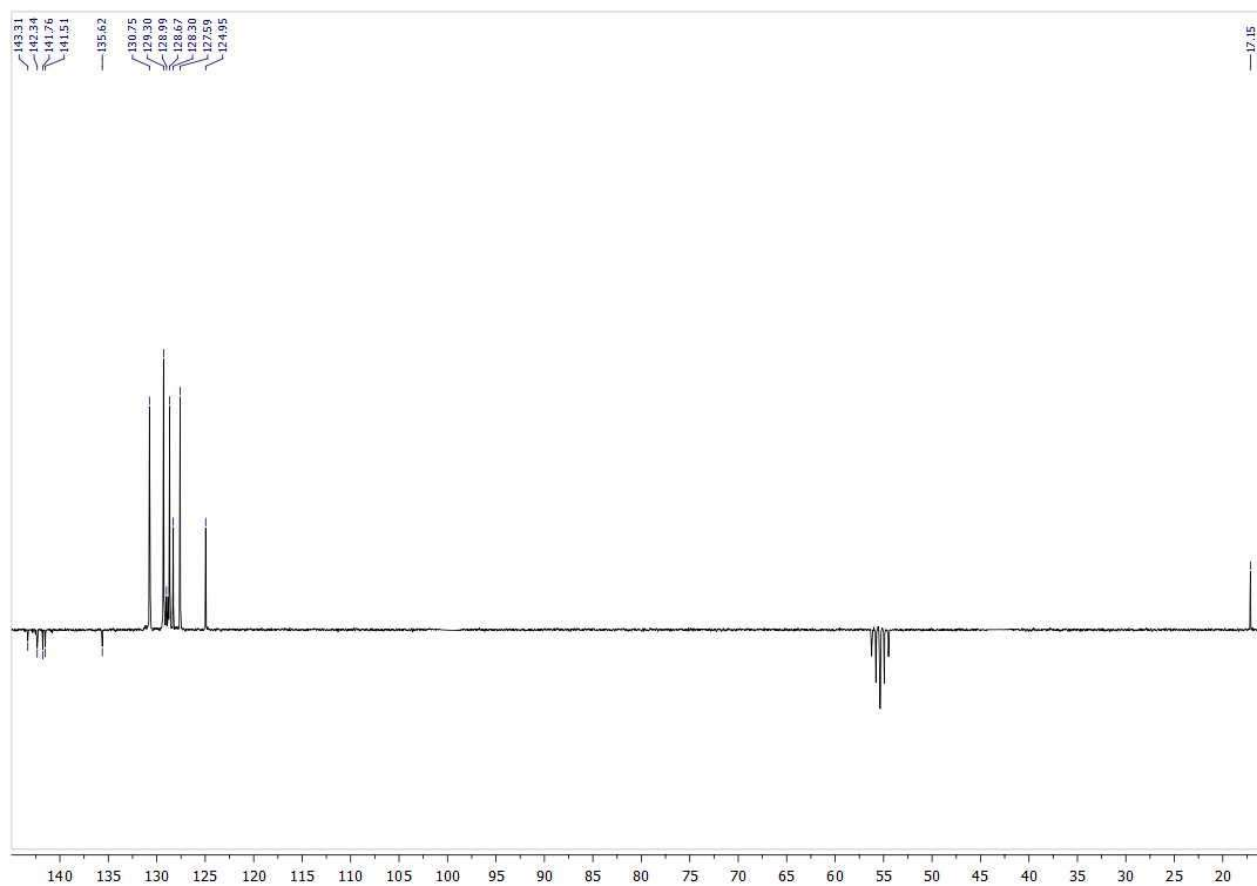
**Figure S1.** The  $^1\text{H}$  NMR spectrum of **2b** in  $\text{CDCl}_3$ .

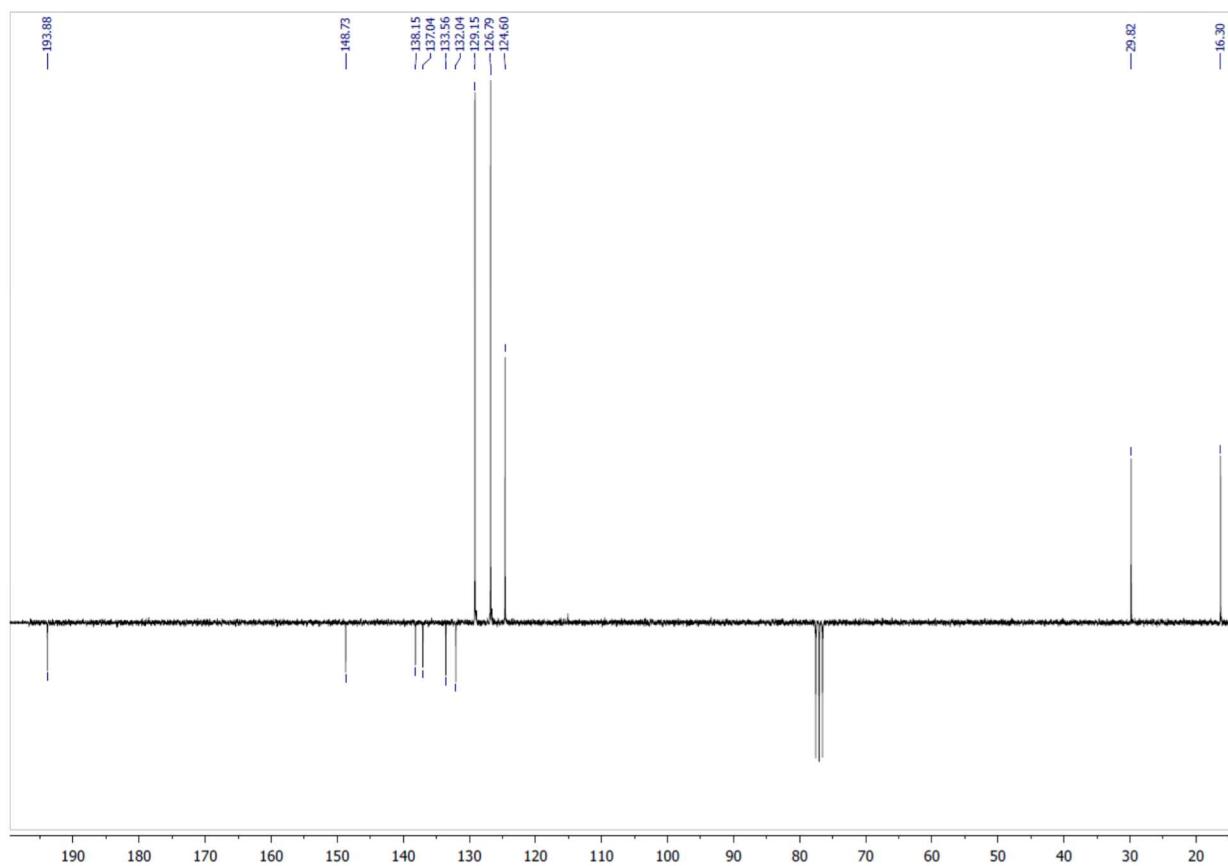
**Figure S2.** The  $^1\text{H}$  NMR spectrum of **3a** in  $\text{CDCl}_3$ .

**Figure S3.** The  $^1\text{H}$  NMR spectrum of **3b** in  $\text{CDCl}_3$ .

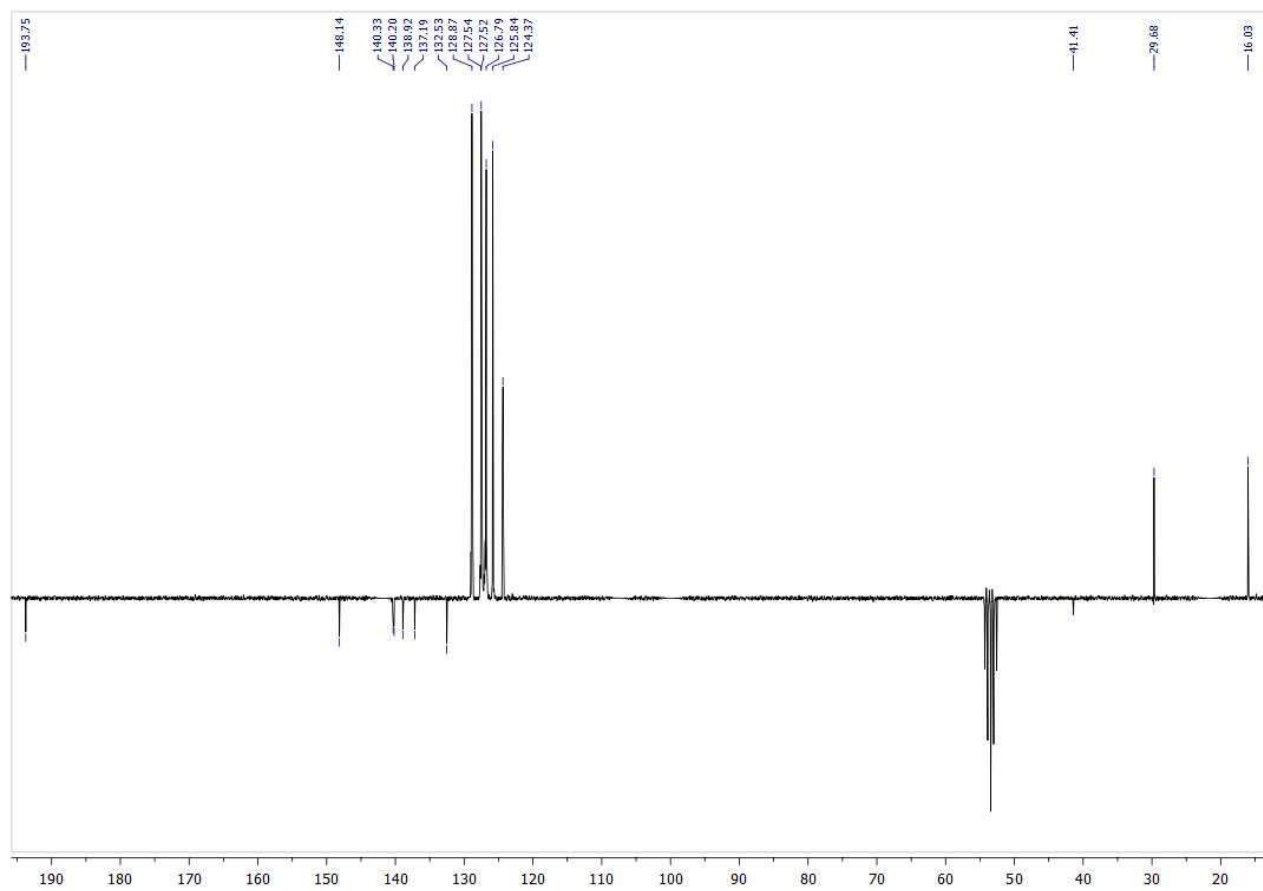
**Figure S4.** The  $^1\text{H}$  NMR spectrum of **4a** in  $\text{CDCl}_3$ .

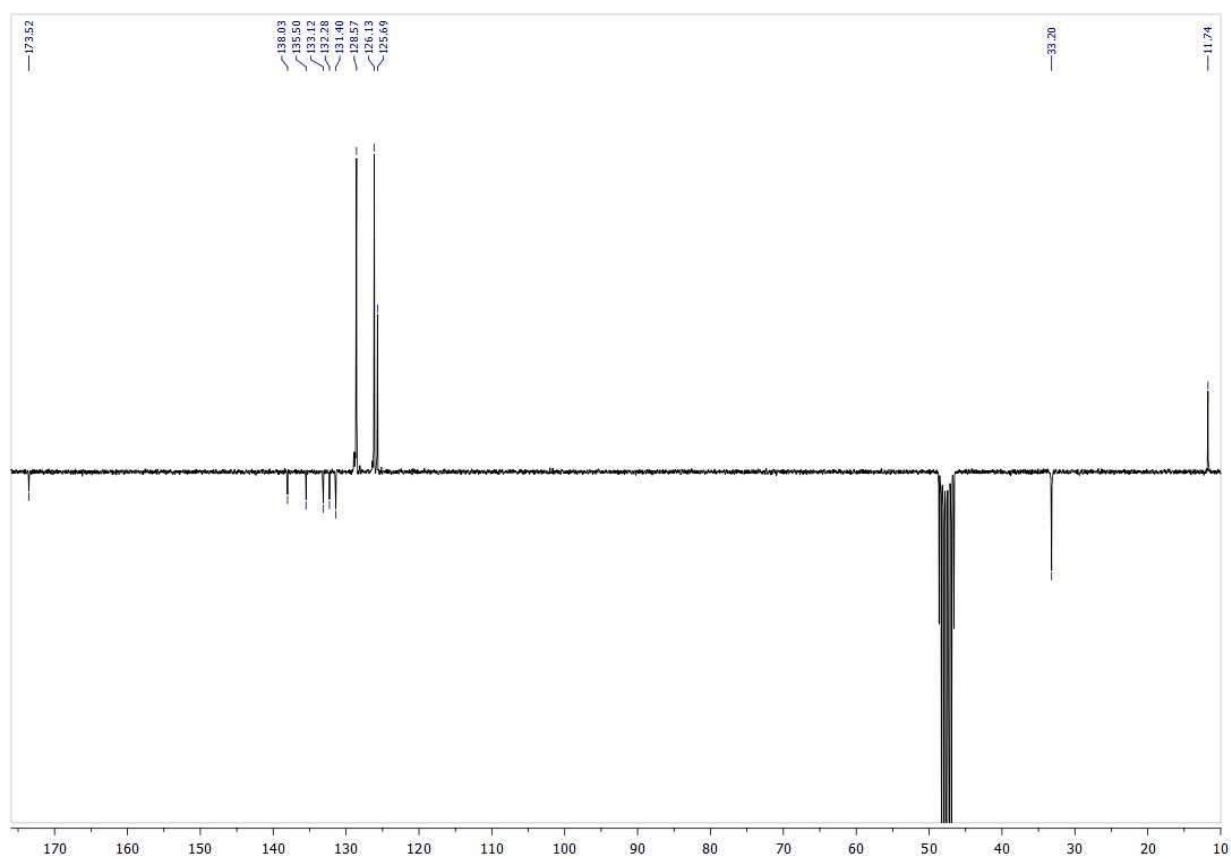
**Figure S5.** The  $^1\text{H}$  NMR spectrum of **4b** in  $\text{CDCl}_3$ .

**Figure S6.** The  $^{13}\text{C}$  NMR spectrum of **2b** in  $\text{CDCl}_3$ .

**Figure S7.** The  $^{13}\text{C}$  NMR spectrum of **3a** in  $\text{CDCl}_3$ .



**Figure S8.** The  $^{13}\text{C}$  NMR spectrum of **3b** in  $\text{CDCl}_3$ .

**Figure S9.** The  $^{13}\text{C}$  NMR spectrum of **4a** in  $\text{CDCl}_3$ .

**Figure S10.** The  $^{13}\text{C}$  NMR spectrum of **4b** in  $\text{CDCl}_3$ .