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## SUPPORTING INFORMATION

# Dichloro(2,2'-bipyridine)copper/MAO. An Active and Stereospecific Catalyst for 1,3-Diene Polymerization

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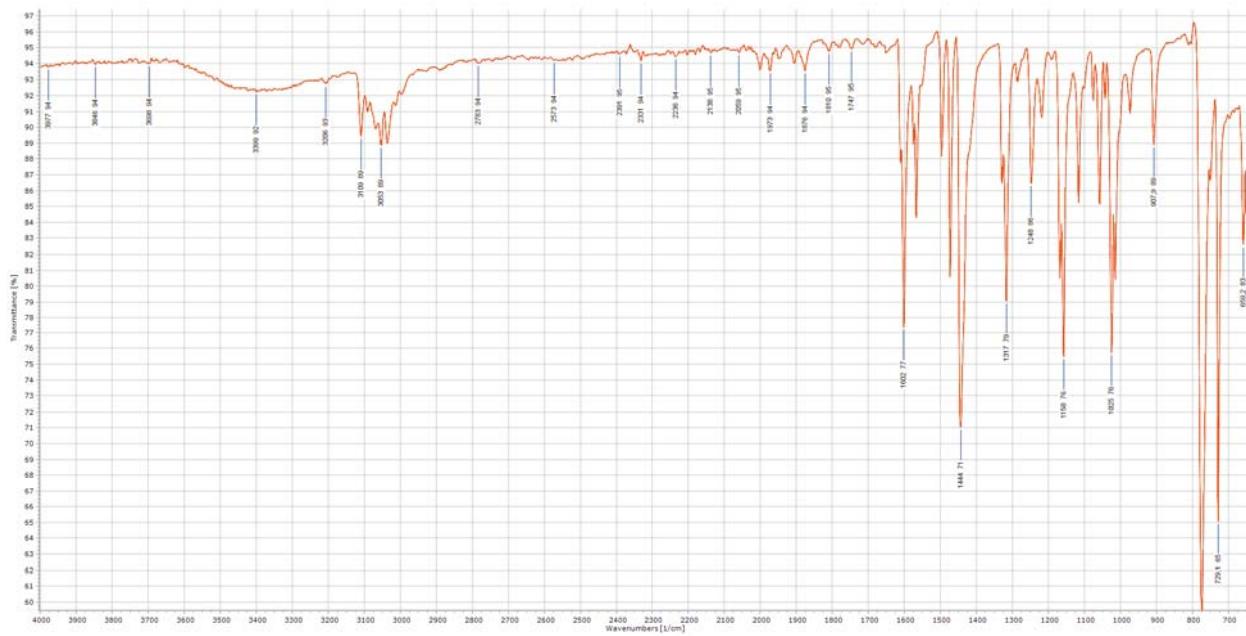
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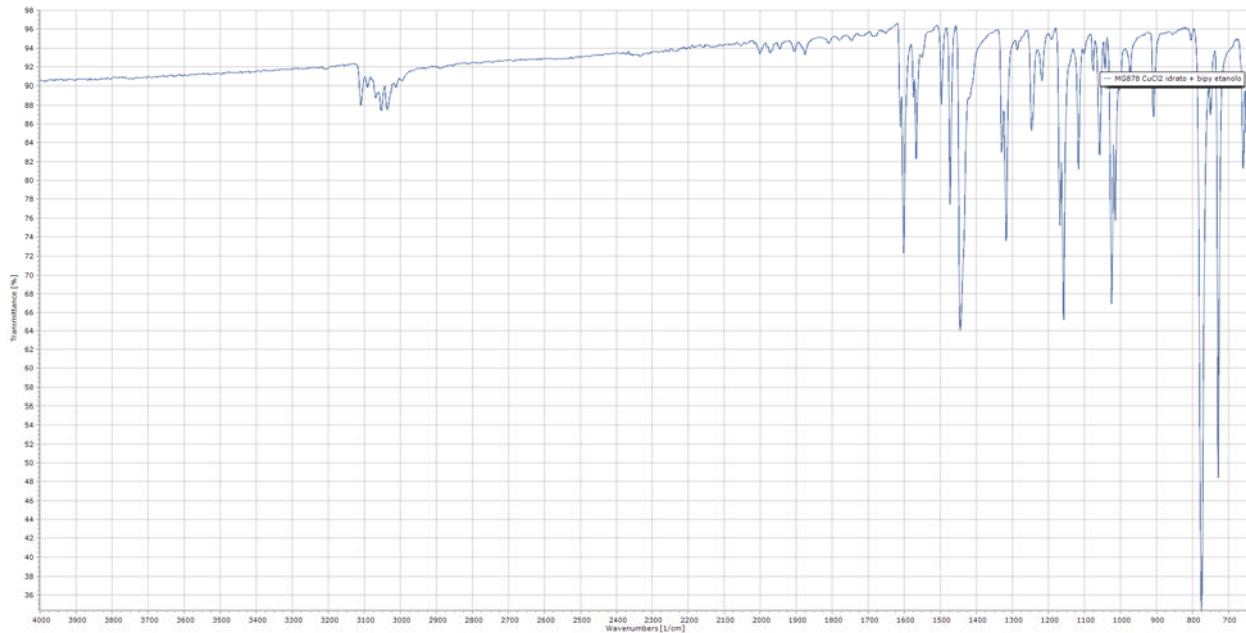
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**Figure S1.** IR spectrum (solid state) of **Cu(bipy)Cl<sub>2</sub>** prepared in toluene.

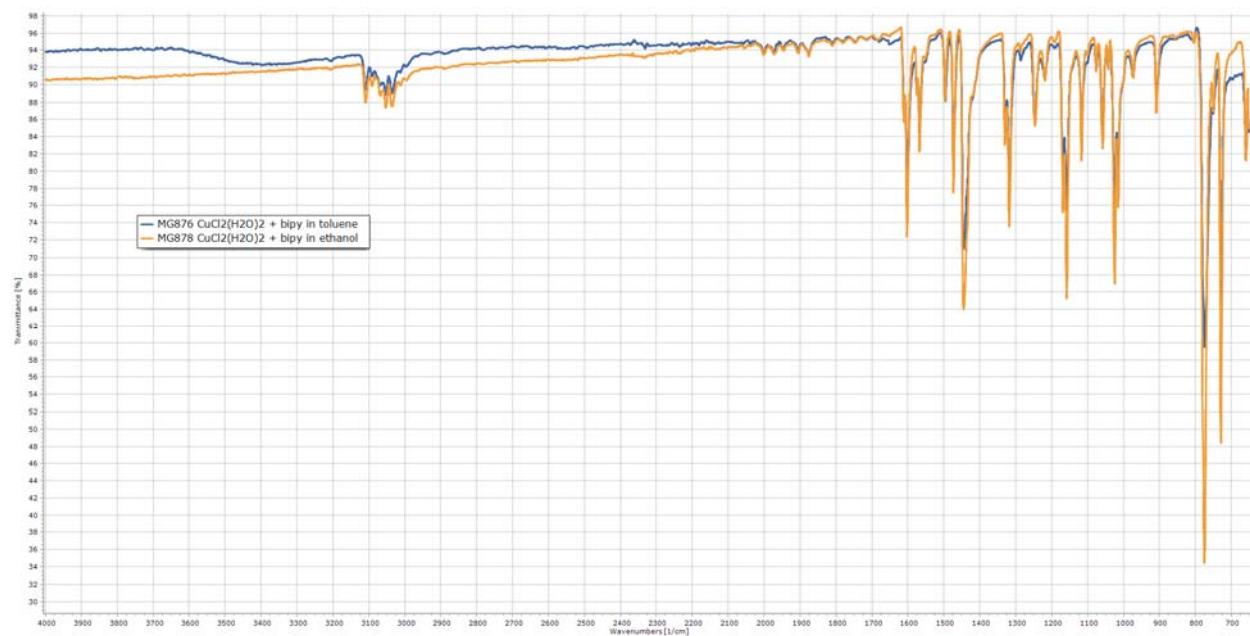


**Figure S2.** IR spectrum (solid state) of **Cu(bipy)Cl<sub>2</sub>** prepared in ethanol.



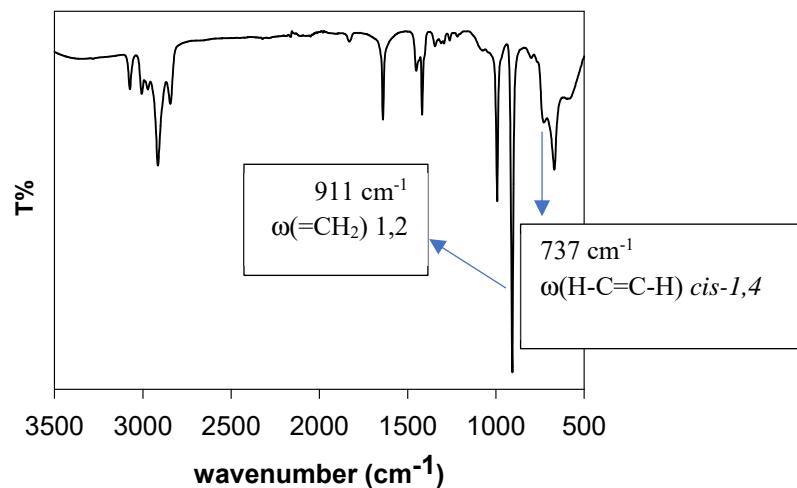
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**Figure S3.** Superposition of IR spectra (solid state) of **Cu(bipy)Cl<sub>2</sub>** prepared in ethanol/toluene.

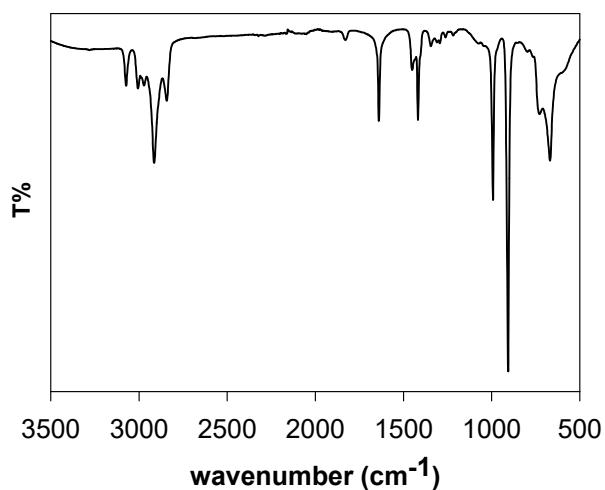


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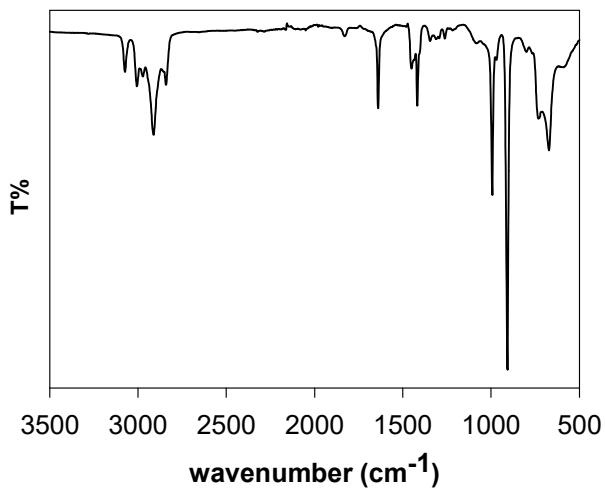
**Figure S4.** FTIR spectrum of entry 1 (ref. Table 1 of the manuscript).



**Figure S5.** FTIR spectrum of entry 2 (ref. Table 1 of the manuscript).

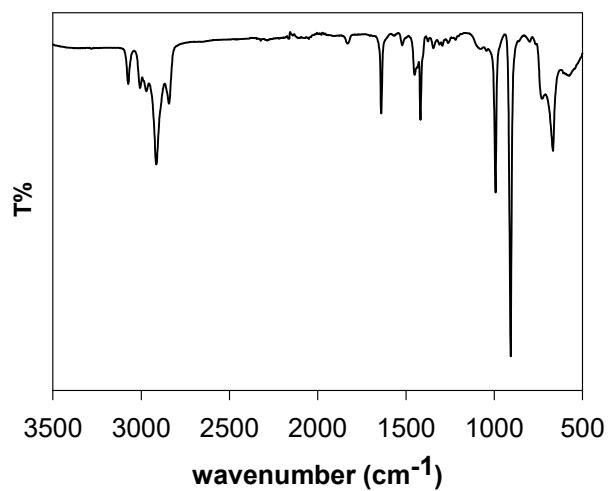


**Figure S6.** FTIR spectrum of entry 3 (ref. Table 1 of the manuscript).

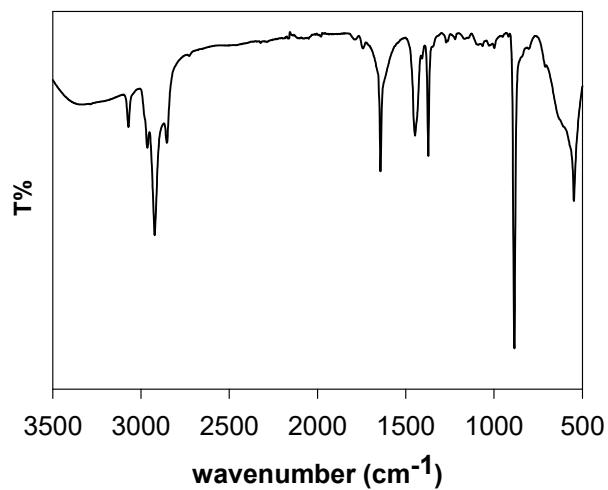


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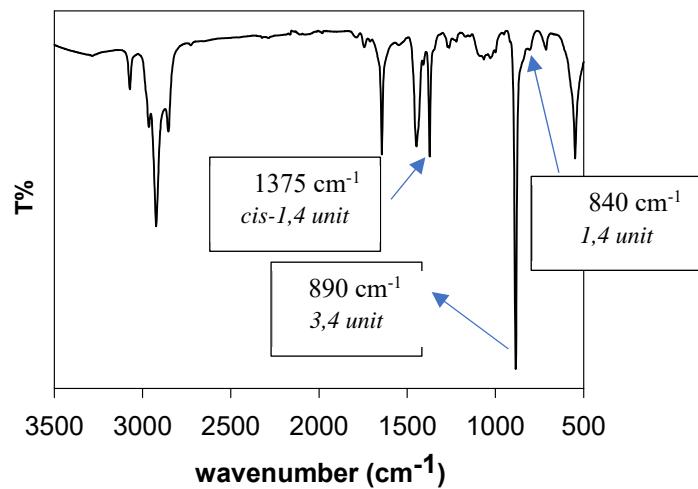
**Figure S7.** FTIR spectrum of entry 4 (ref. Table 1 of the manuscript).



**Figure S8.** FTIR spectrum of entry 5 (ref. Table 1 of the manuscript).

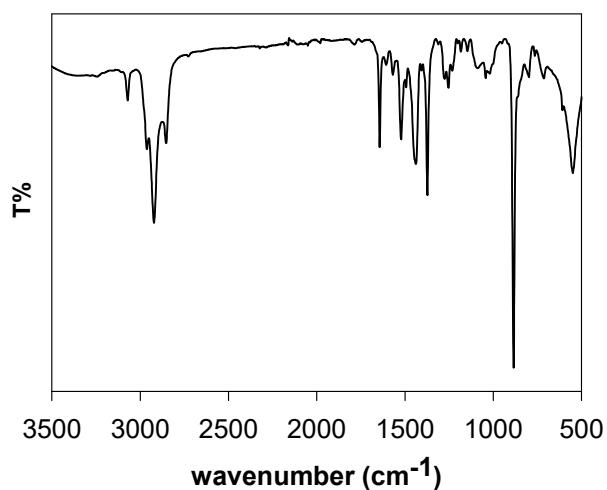


**Figure S9.** FTIR spectrum of entry 6 (ref. Table 1 of the manuscript).

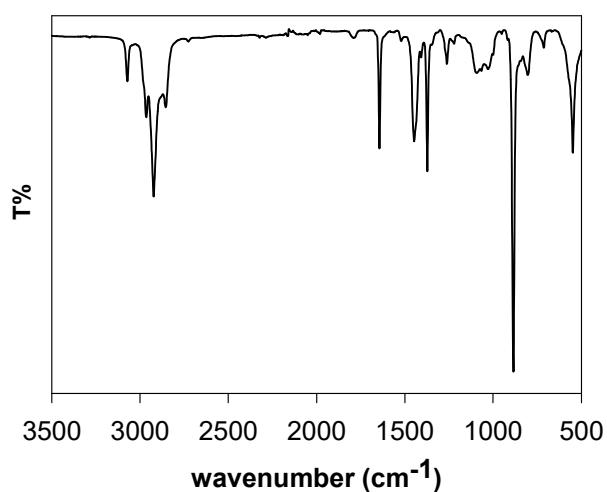


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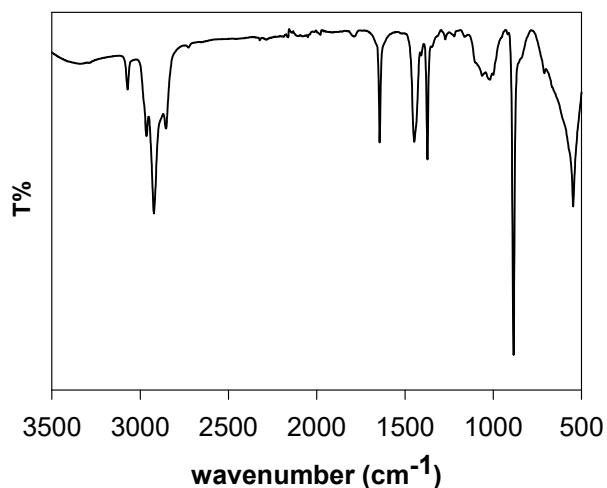
**Figure S10.** FTIR spectrum of entry 7 (ref. Table 1 of the manuscript).



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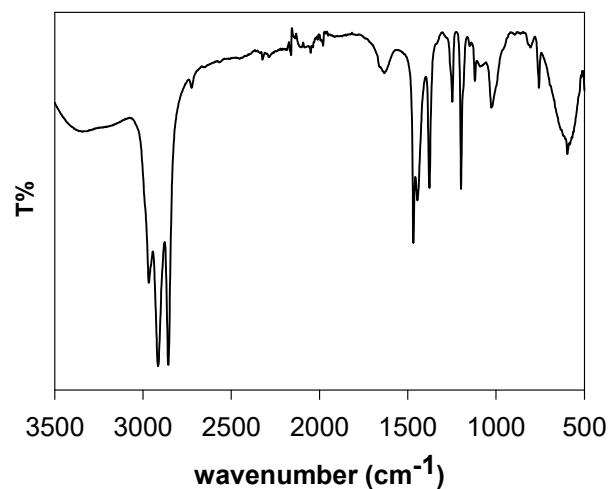


**Figure S12.** FTIR spectrum of entry 9 (ref. Table 1 of the manuscript).

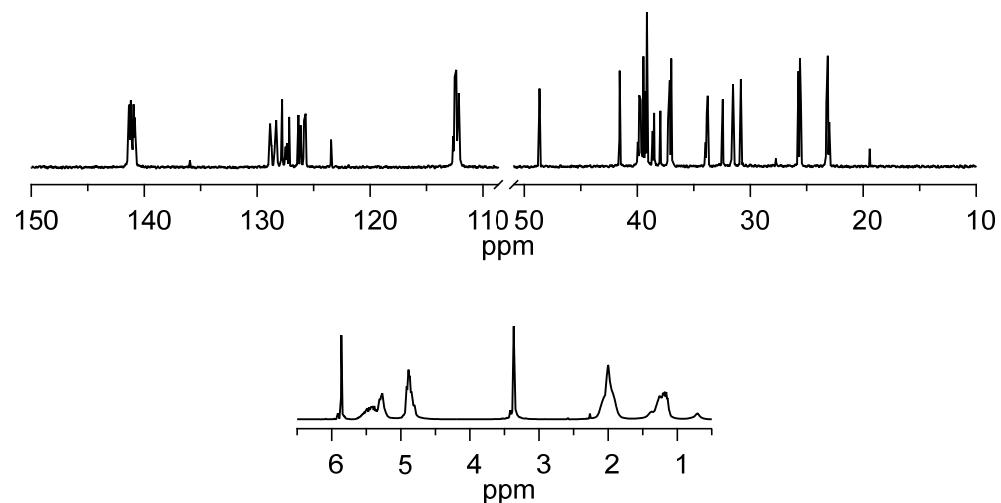


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**Figure S13.** FTIR spectrum of entry **10** (ref Table 1 of the manuscript).

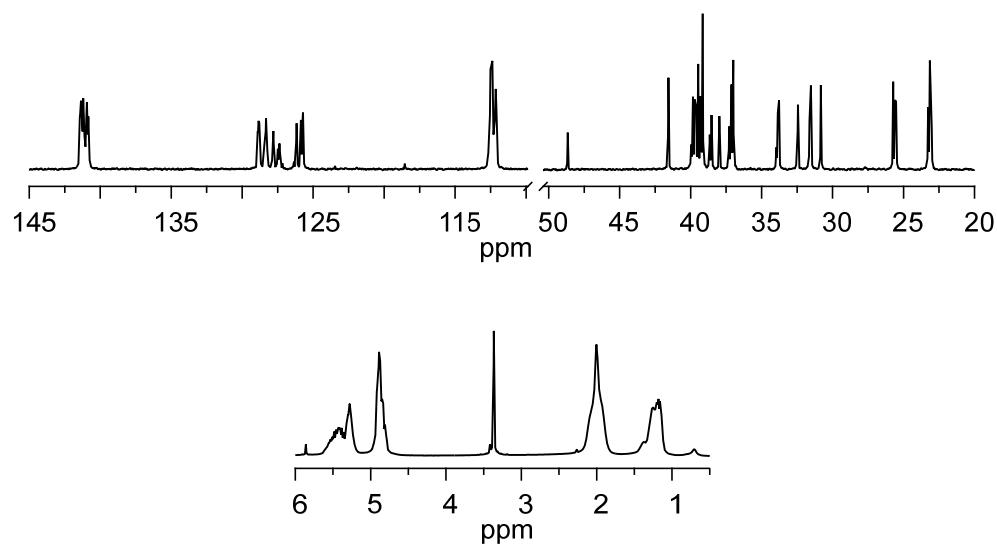


**Figure S14.**  $^1\text{H}$  (bottom) and  $^{13}\text{C}$  NMR (top) spectra of entry **1** (ref. Table 1 of the manuscript).

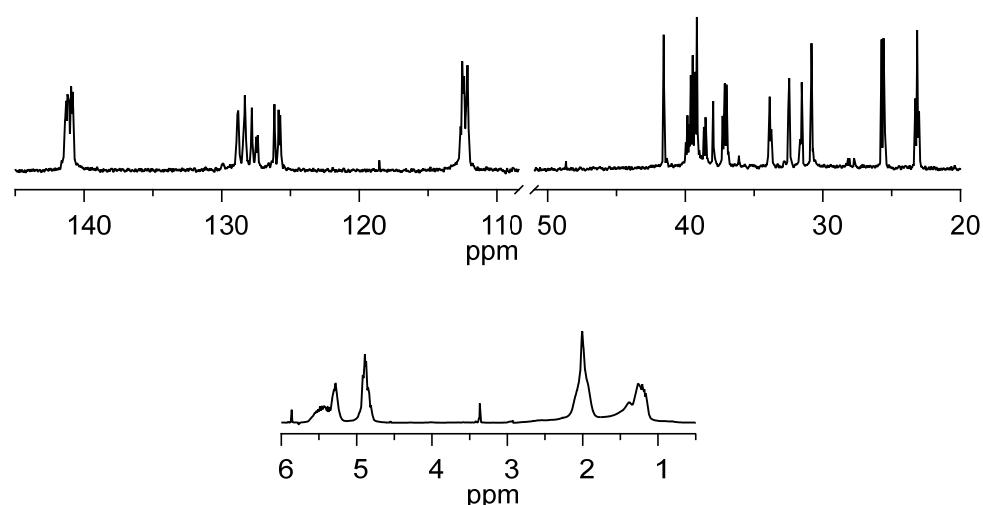


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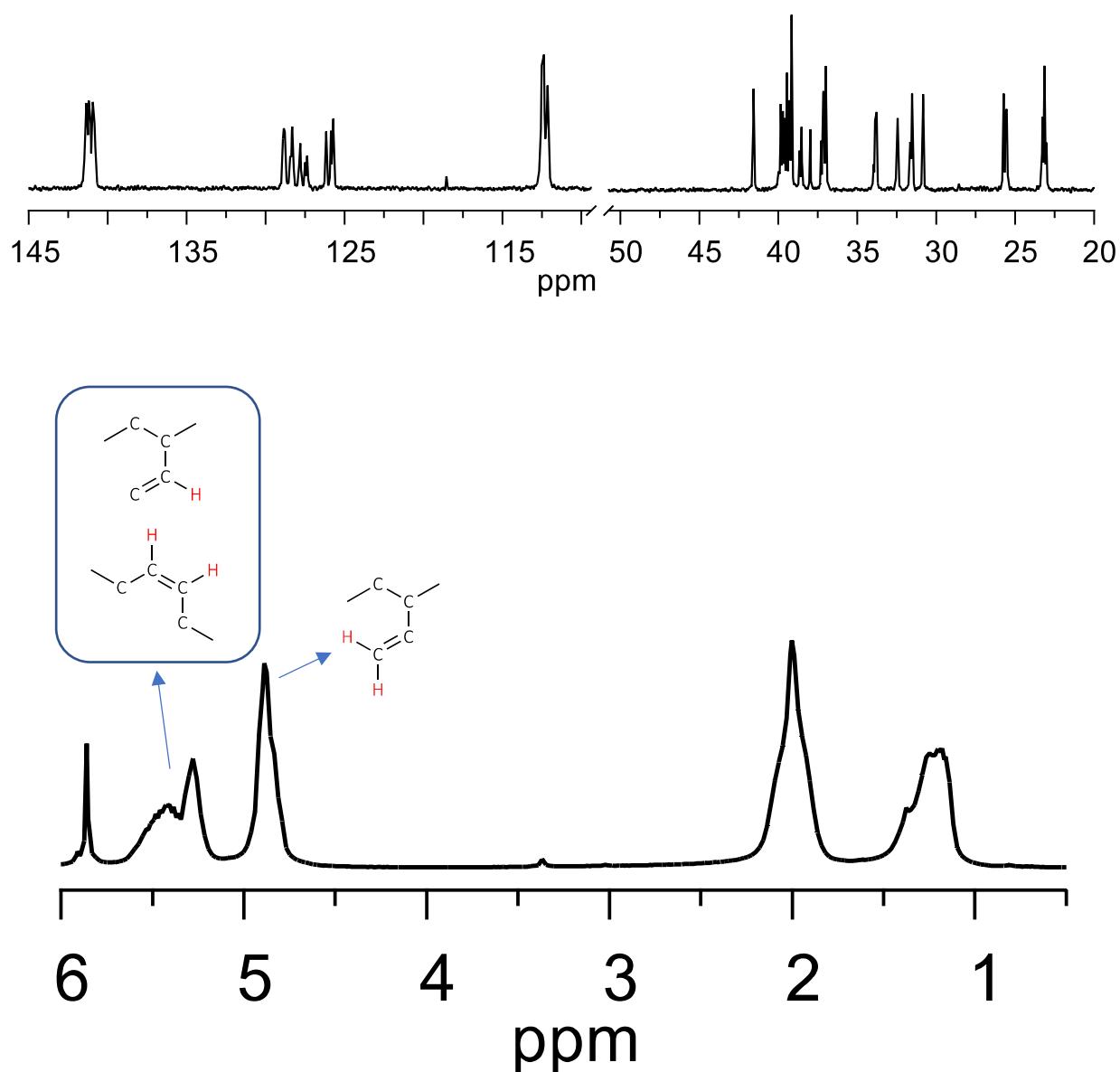
**Figure S15.**  $^1\text{H}$  (bottom) and  $^{13}\text{C}$  NMR (top) spectra of entry 2 (ref. Table 1 of the manuscript).



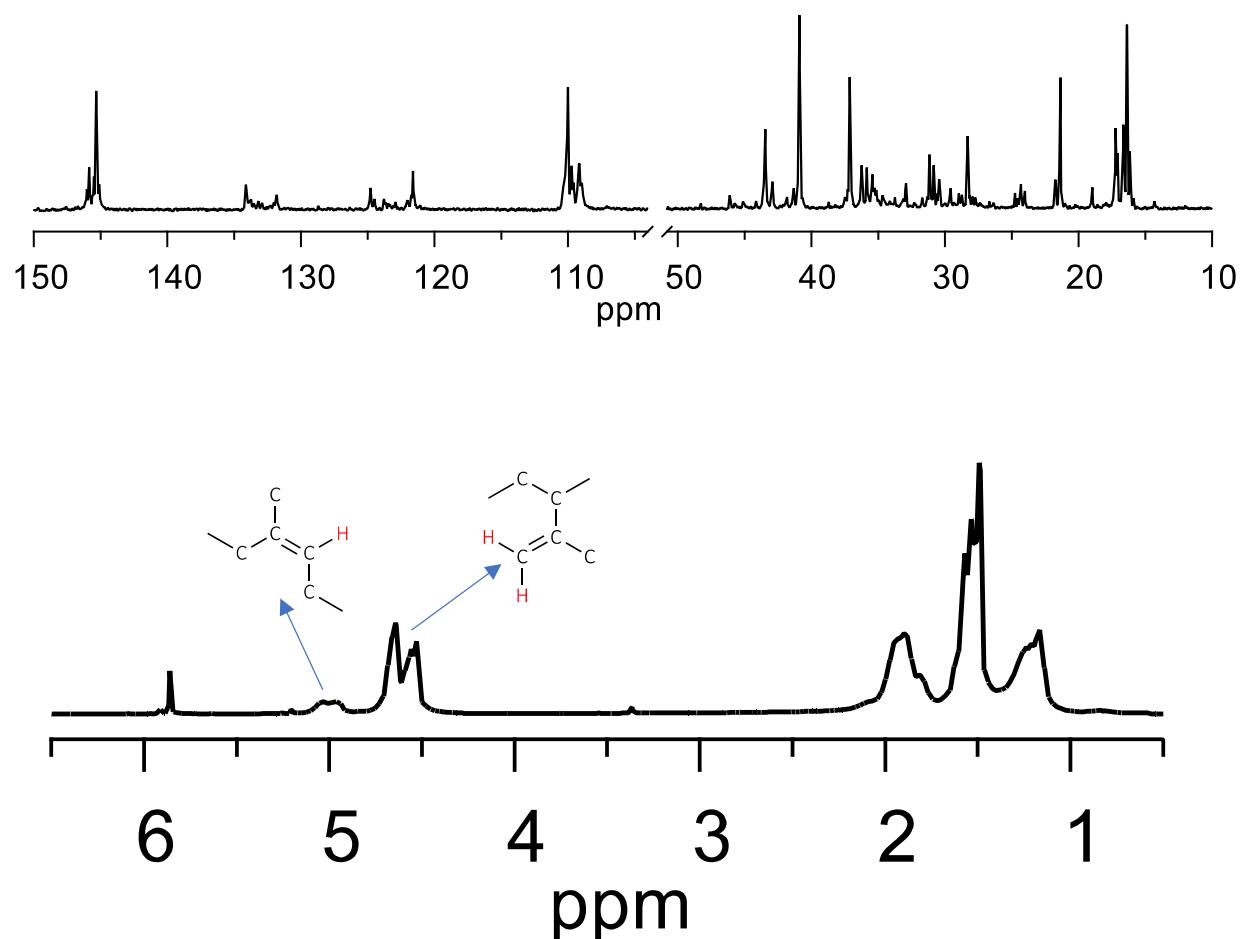
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**Figure S17.**  $^1\text{H}$  (bottom) and  $^{13}\text{C}$  NMR (top) spectra of entry 4 (ref. Table 1 of the manuscript).

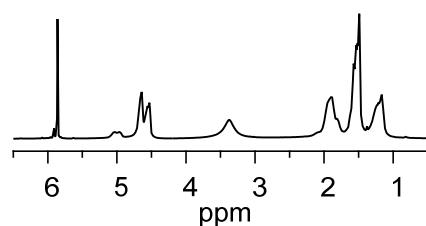
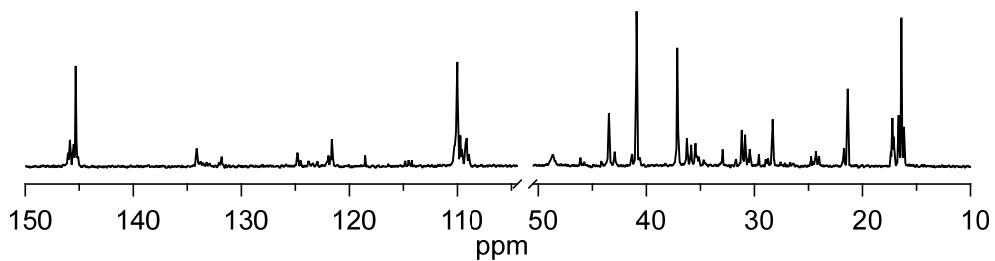


**Figure S18.**  $^1\text{H}$  (bottom) and  $^{13}\text{C}$  NMR (top) spectra of entry 5 (ref. Table 1 of the manuscript).

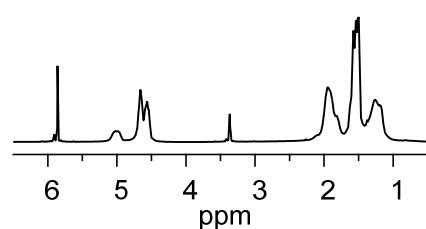
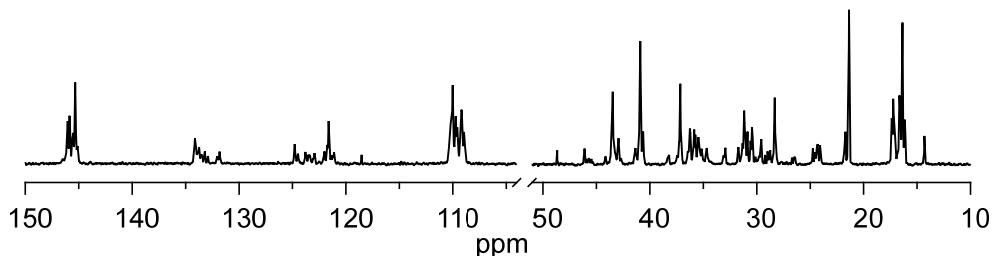


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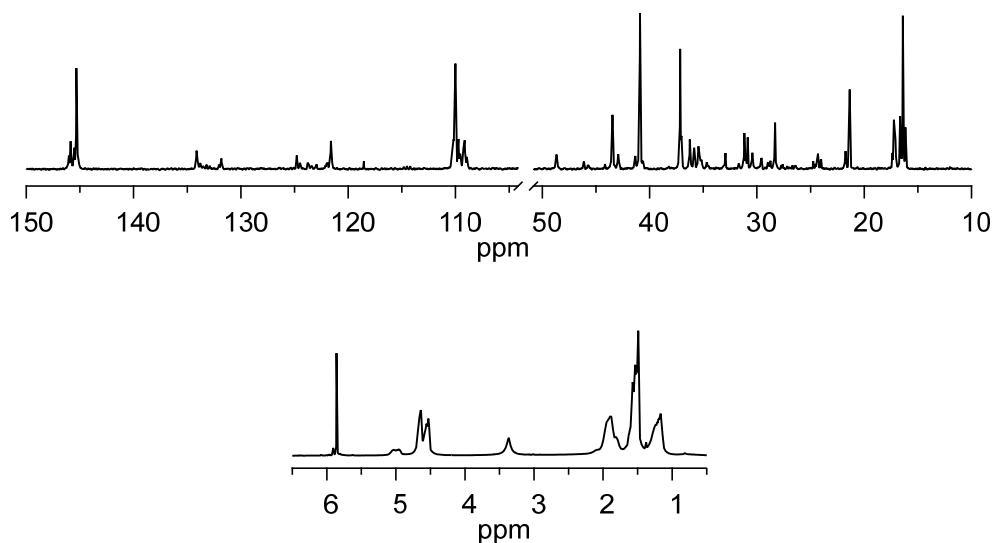


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