

## Supplementary Information

### Synthesis, *in silico* Study and Antimicrobial Evaluation of New Selenoglycolicamides

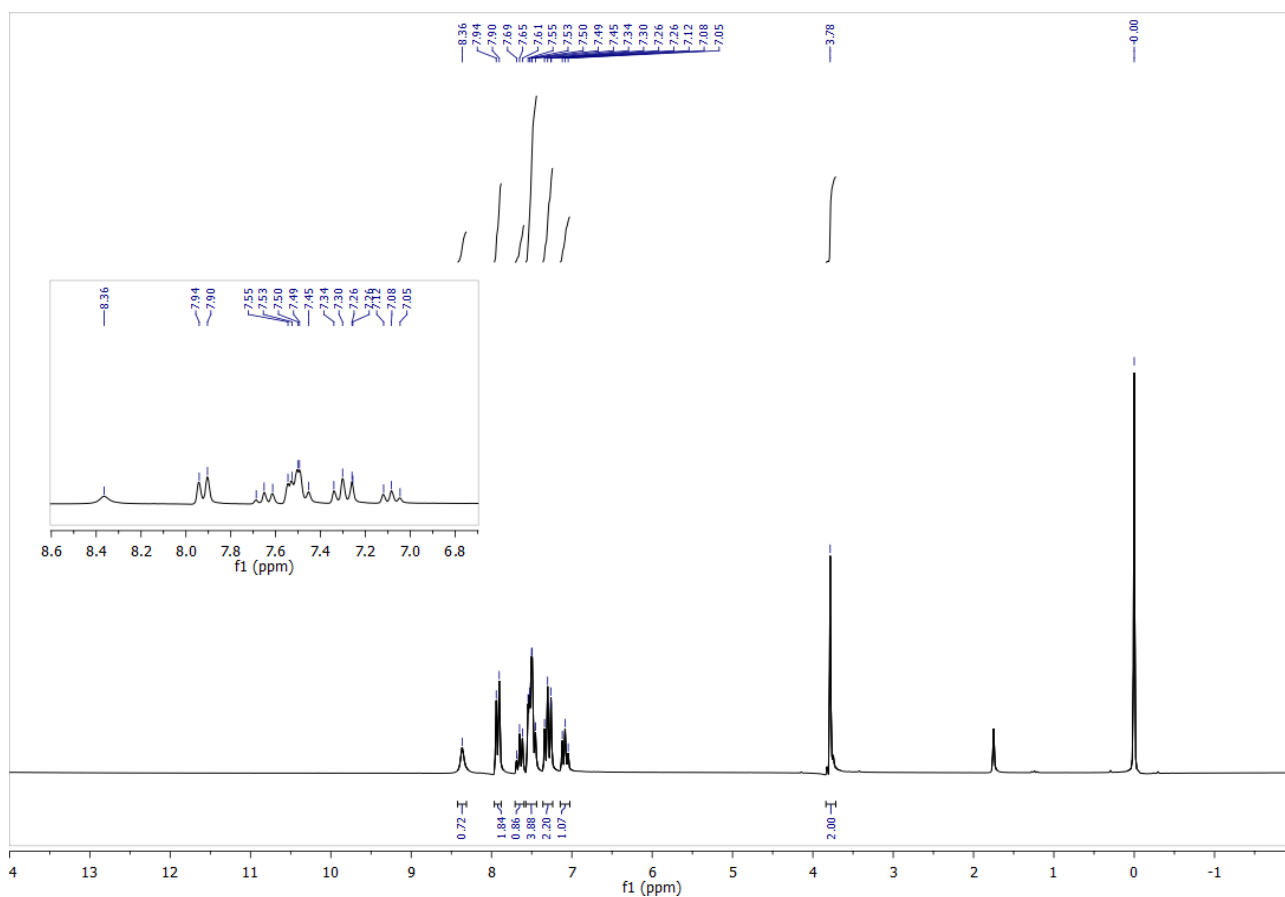
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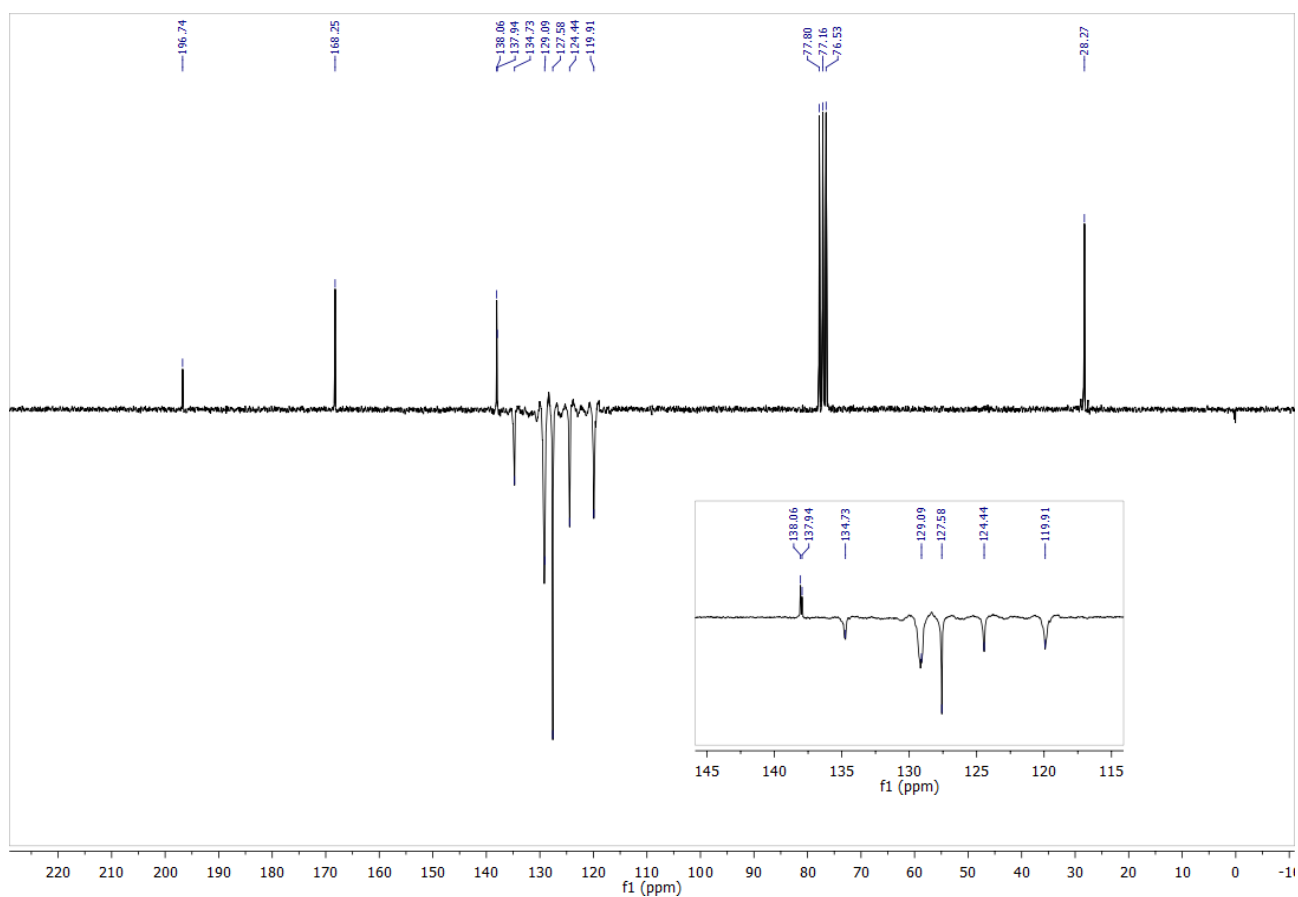
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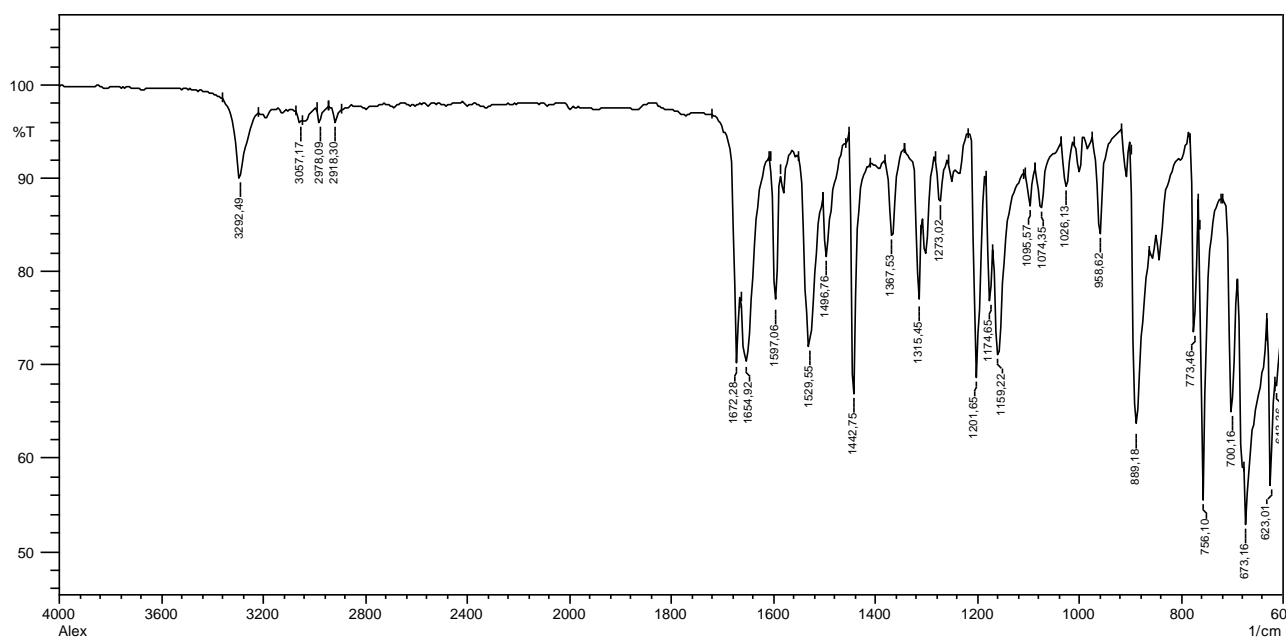
#### NMR and IR spectrum



**Figure S1.** <sup>1</sup>H NMR spectrum (200 MHz, CDCl<sub>3</sub>) of compound 7a.



**Figure S2.**  $^{13}\text{C}$  NMR spectrum (50 MHz,  $\text{CDCl}_3$ ) of compound 7a.



**Figure S3.** FTIR (KBr) spectrum of compound 7a.

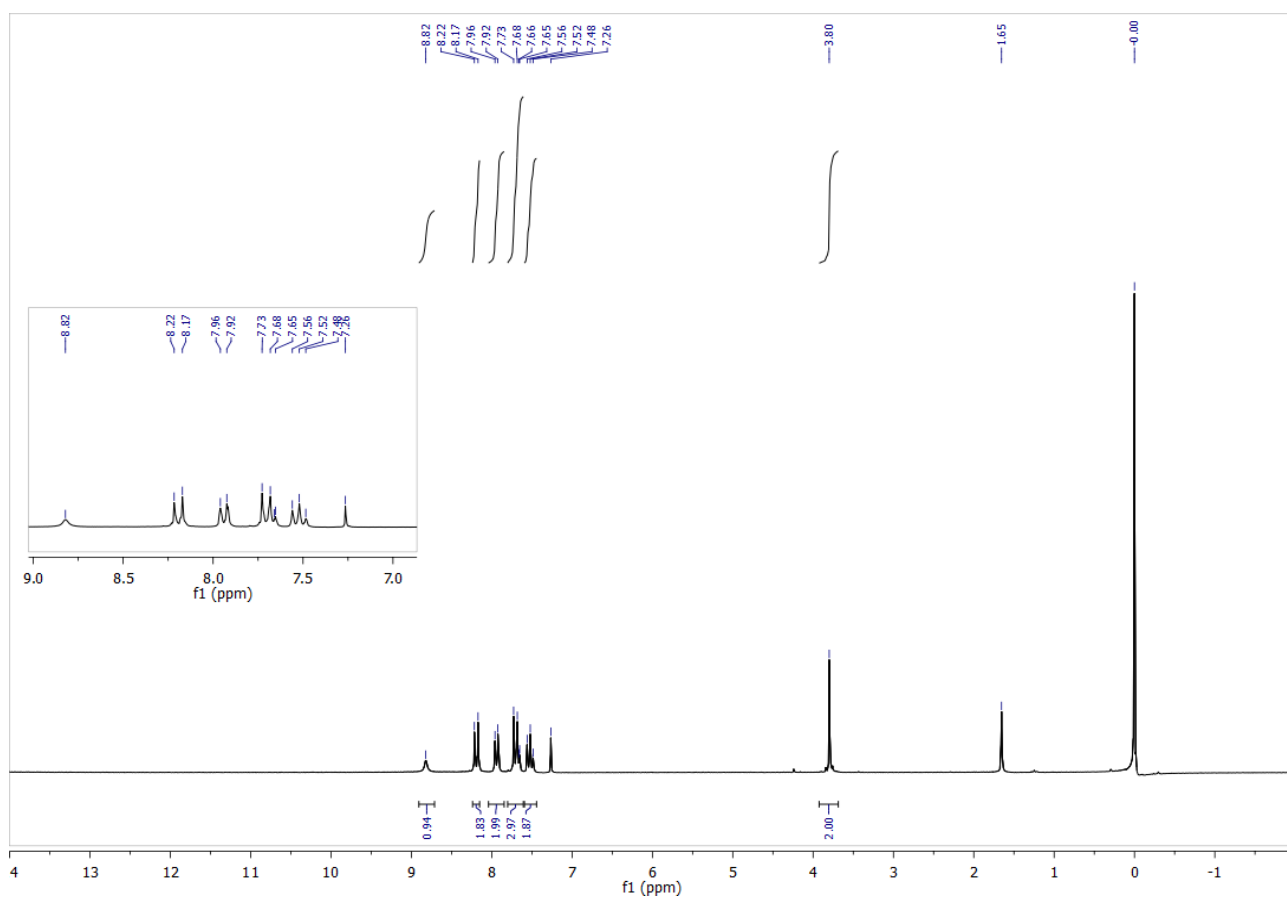


Figure S4.  $^1\text{H}$  NMR spectrum (200 MHz,  $\text{CDCl}_3$ ) of compound **7b**.

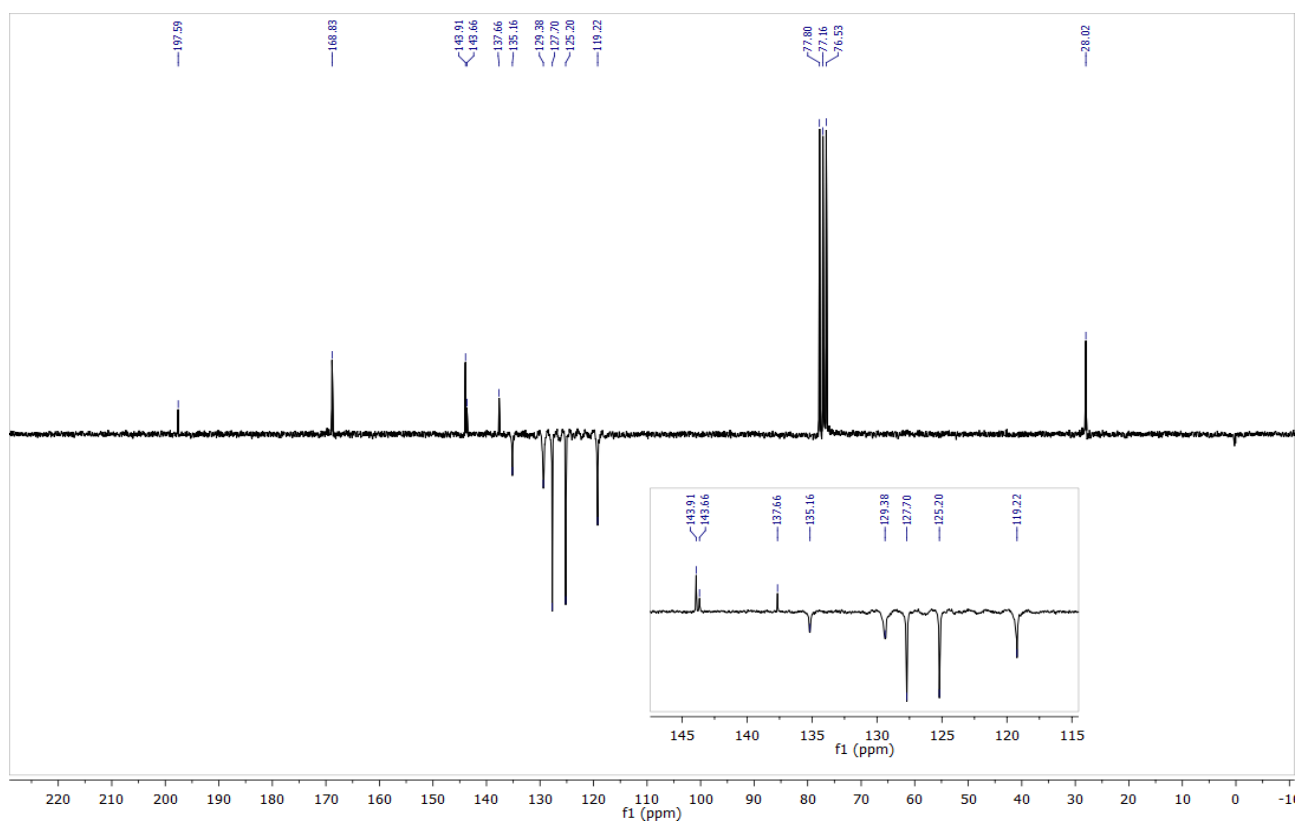


Figure S5.  $^{13}\text{C}$  NMR spectrum (50 MHz,  $\text{CDCl}_3$ ) of compound **7b**.

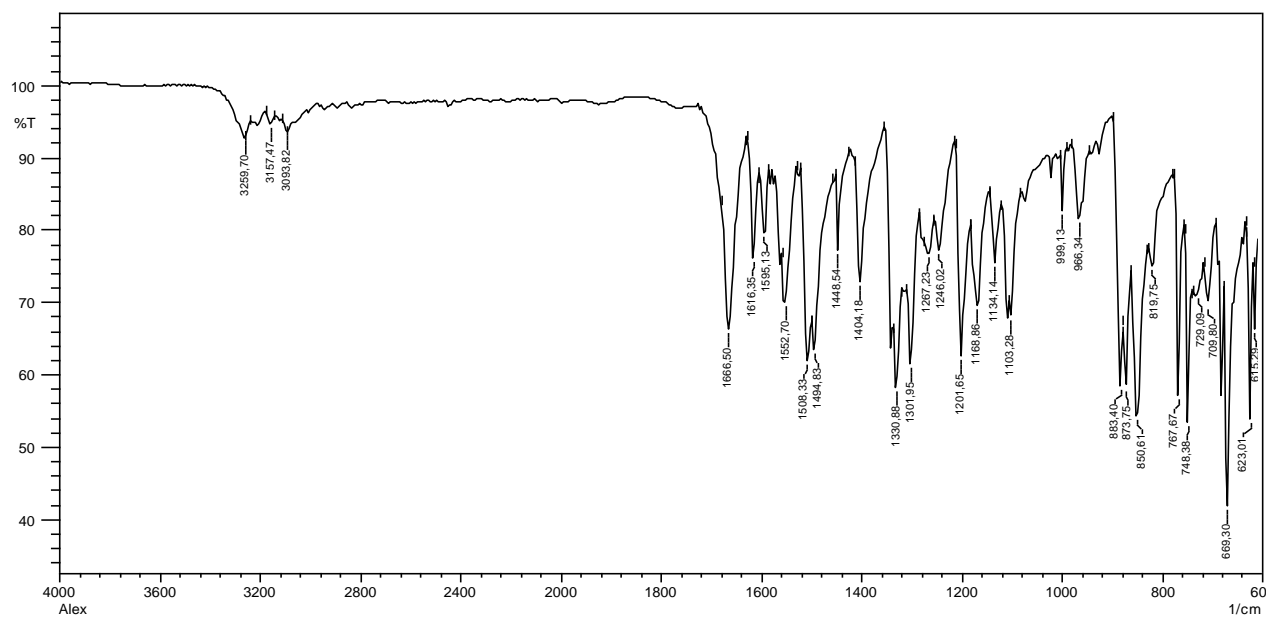


Figure S6. FTIR (KBr) spectrum of compound 7b.

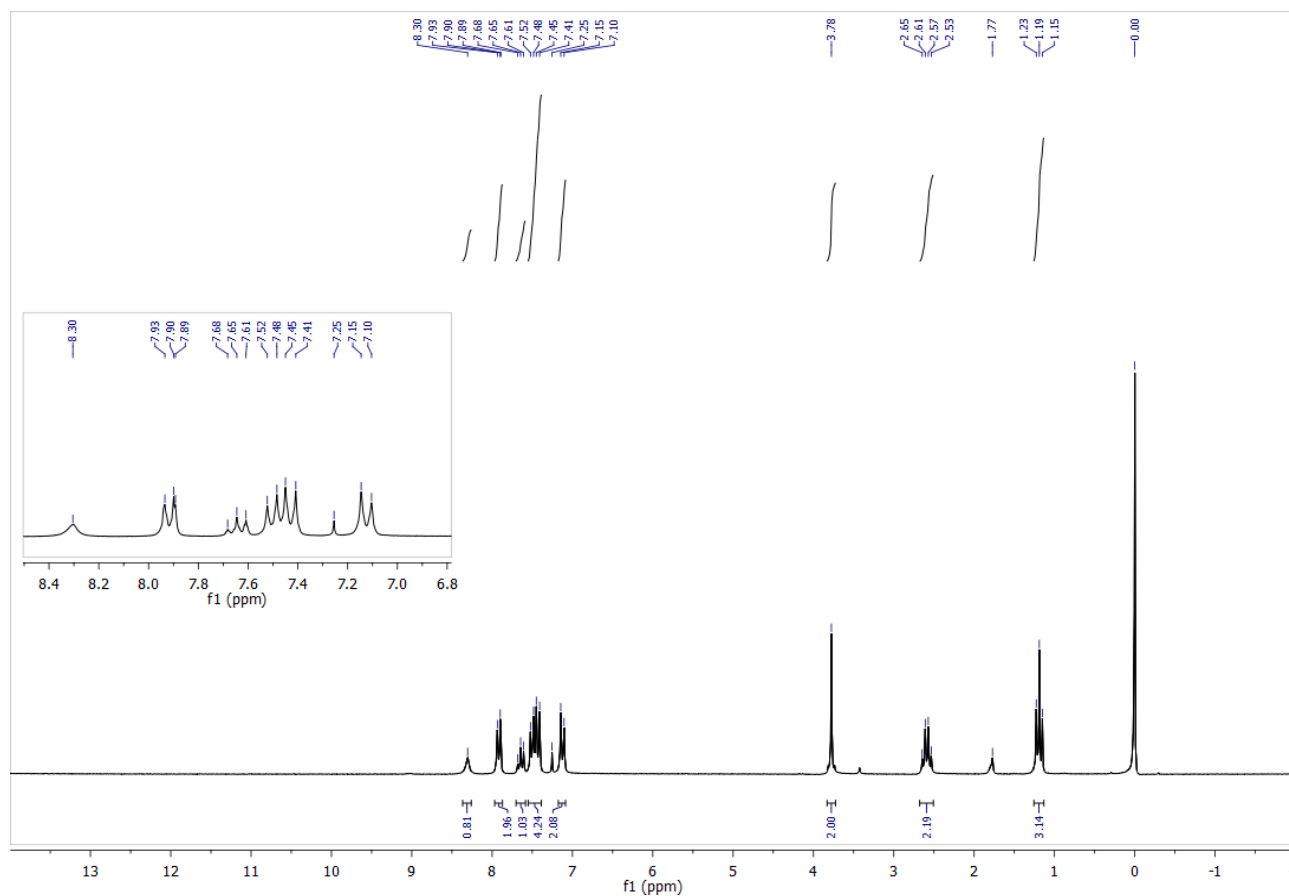
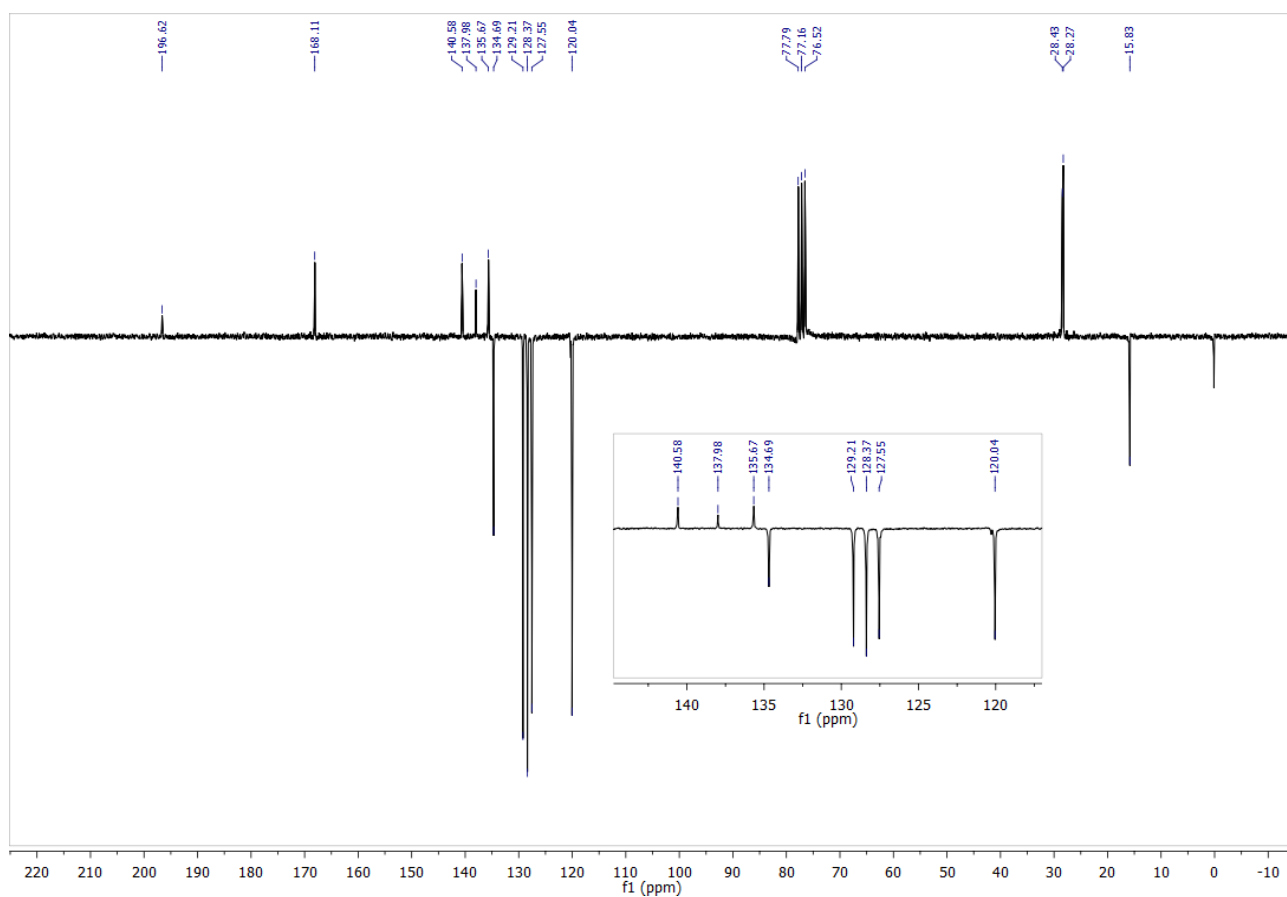
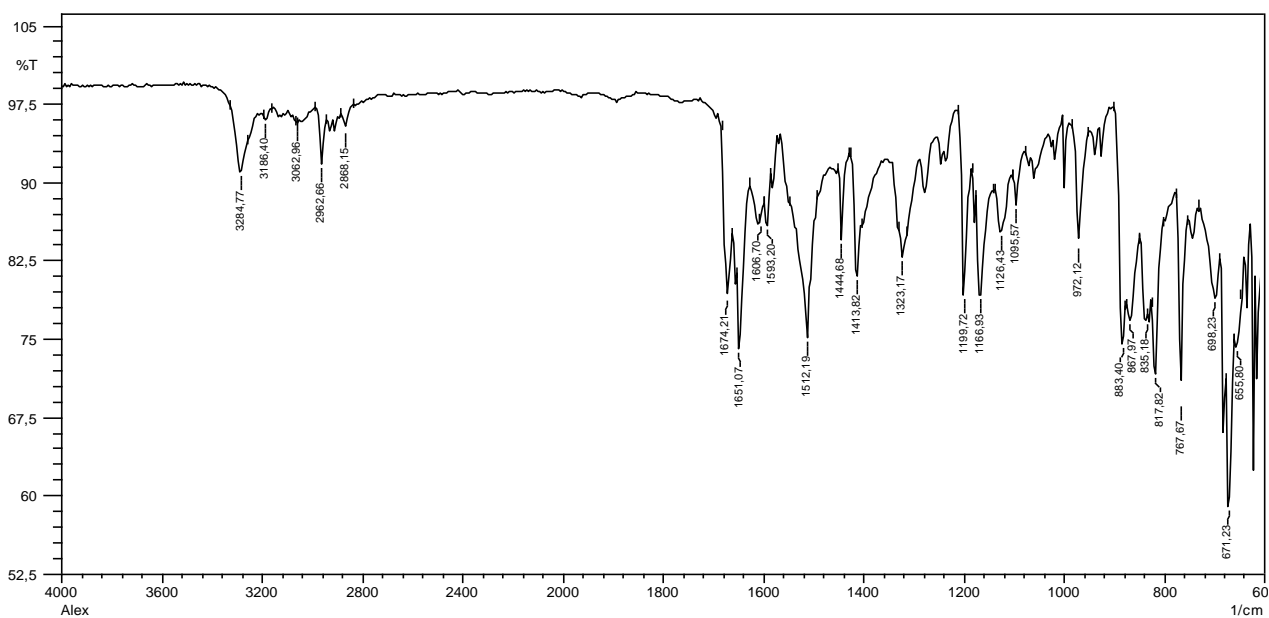


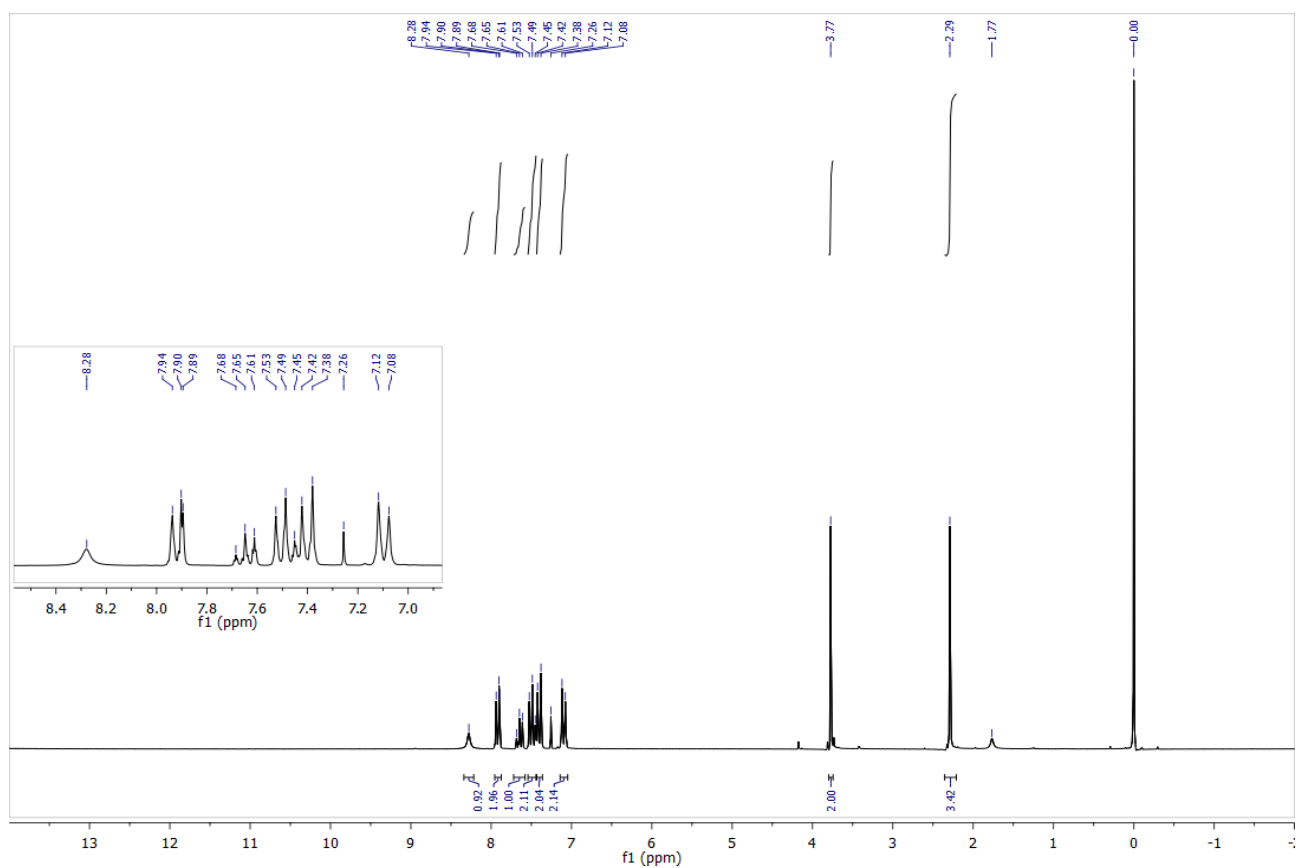
Figure S7. <sup>1</sup>H NMR spectrum (200 MHz, CDCl<sub>3</sub>) of compound 7c.



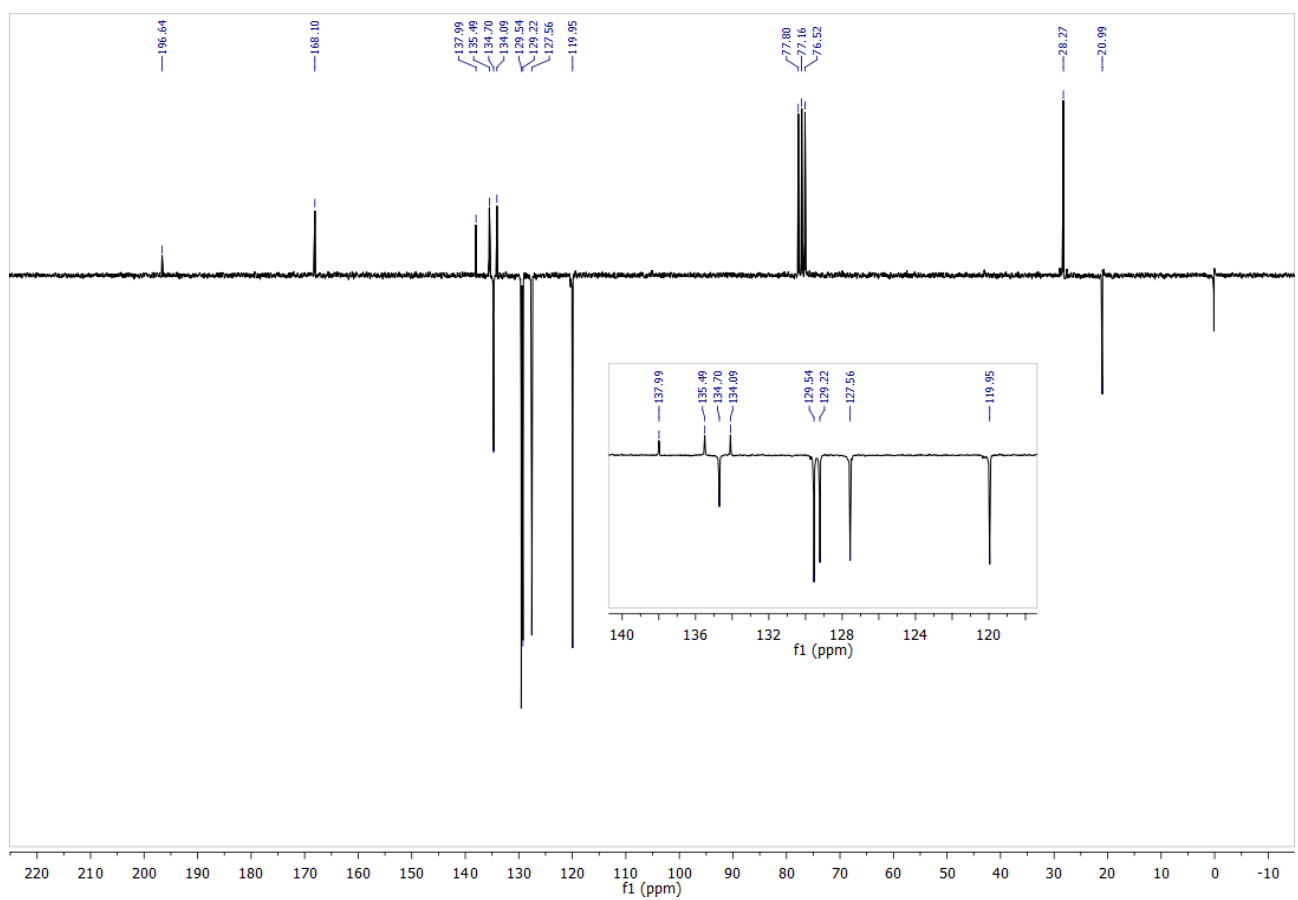
**Figure S8.**  $^{13}\text{C}$  NMR spectrum (50 MHz,  $\text{CDCl}_3$ ) of compound **7c**.



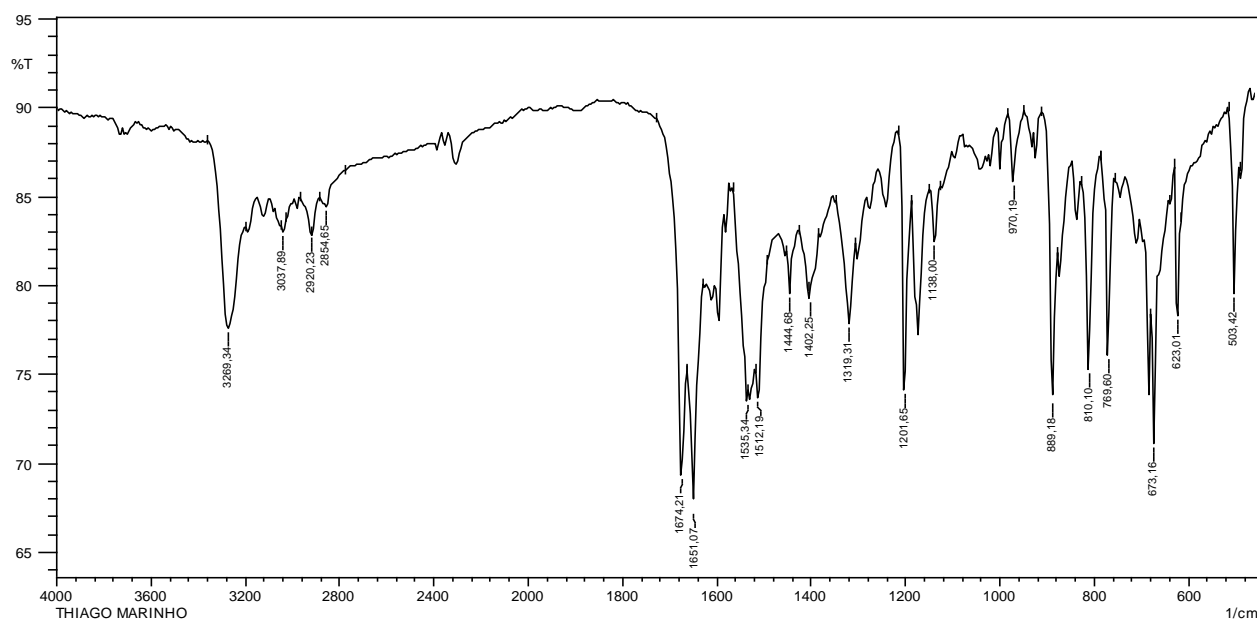
**Figure S9.** FTIR (KBr) spectrum of compound **7c**.



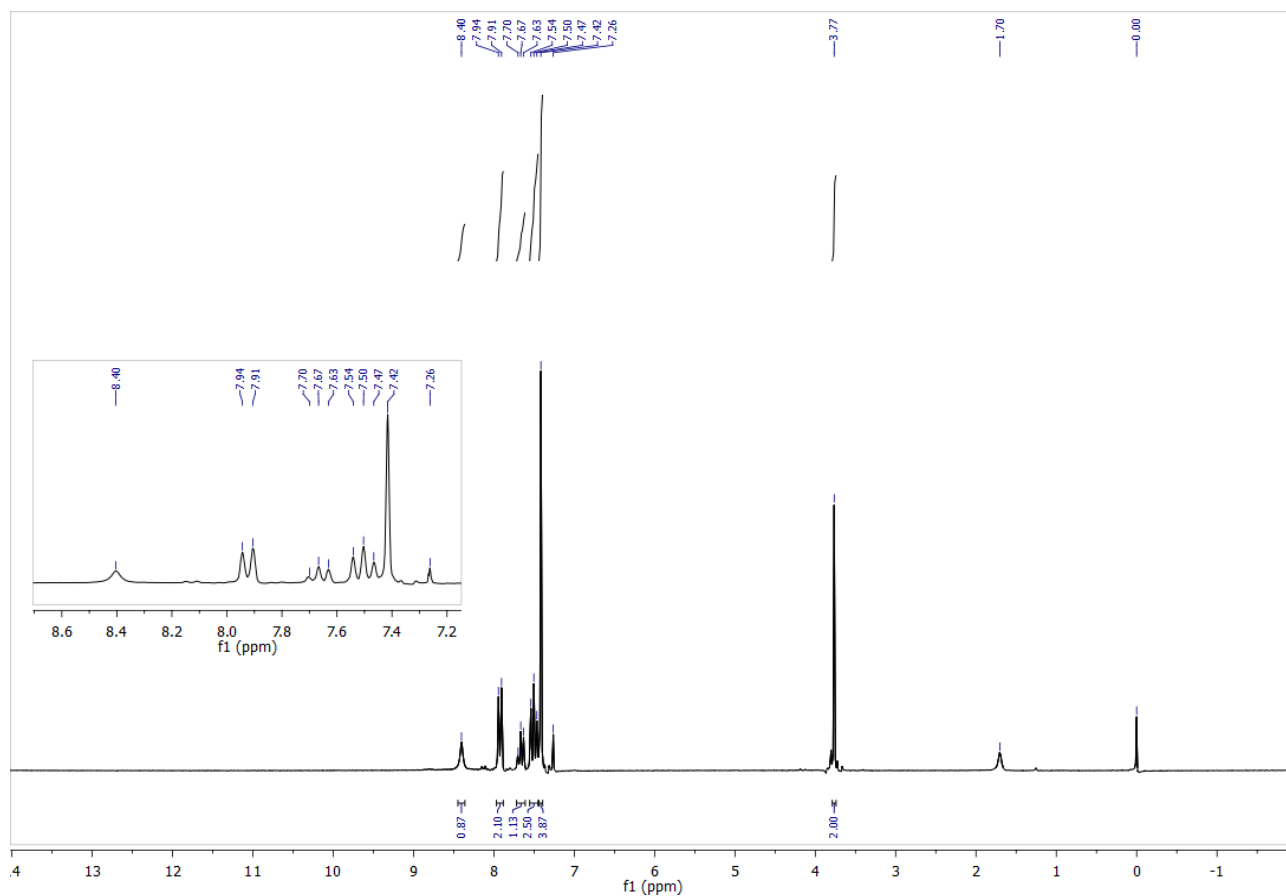
**Figure S10.**  $^1\text{H}$  NMR spectrum (200 MHz,  $\text{CDCl}_3$ ) of compound **7d**.



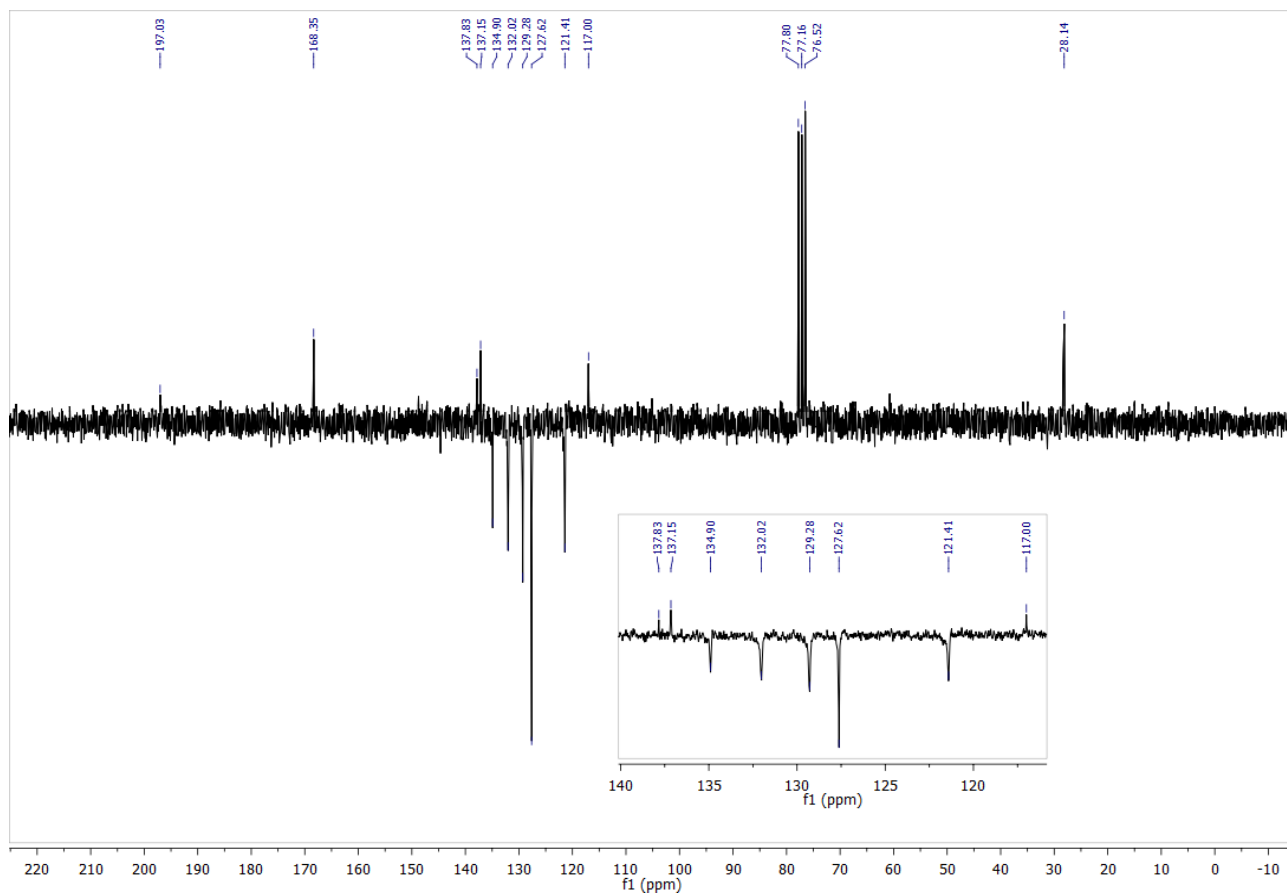
**Figure S11.**  $^{13}\text{C}$  NMR spectrum (50 MHz,  $\text{CDCl}_3$ ) of compound **7d**.



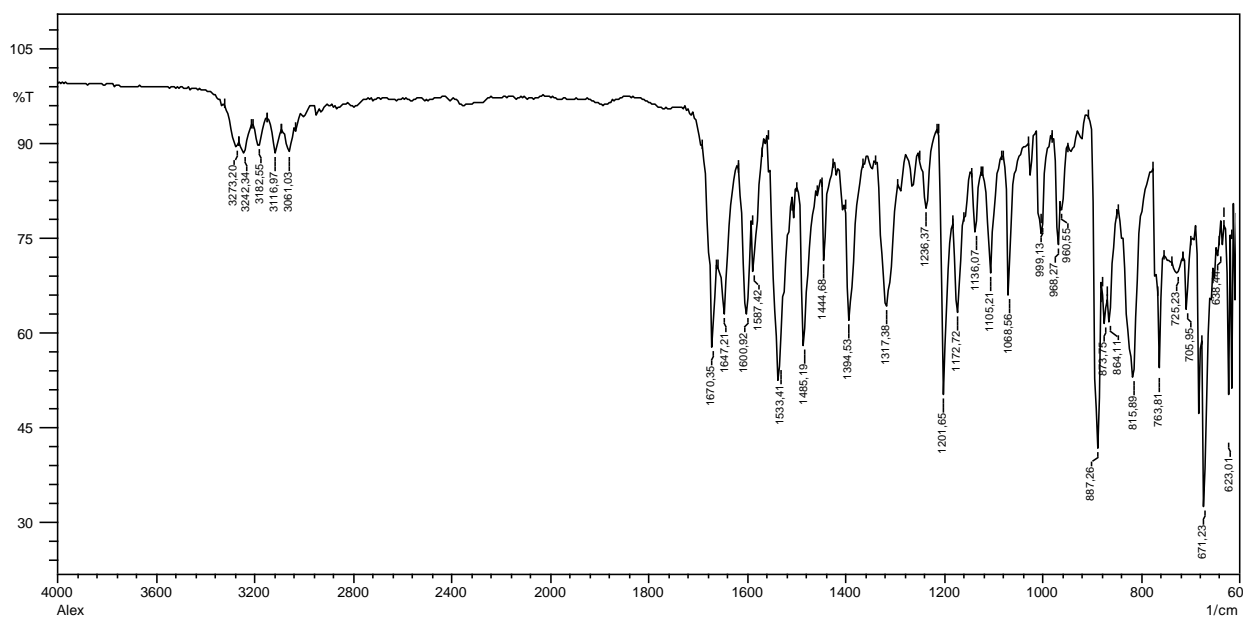
**Figure S12.** FTIR (KBr) spectrum of compound **7d**.



**Figure S13.**  $^1\text{H}$  NMR spectrum (200 MHz,  $\text{CDCl}_3$ ) of compound **7e**.



**Figure S14.**  $^{13}\text{C}$  NMR spectrum (50 MHz,  $\text{CDCl}_3$ ) of compound **7e**.



**Figure S15.** FTIR (KBr) spectrum of compound **7e**.



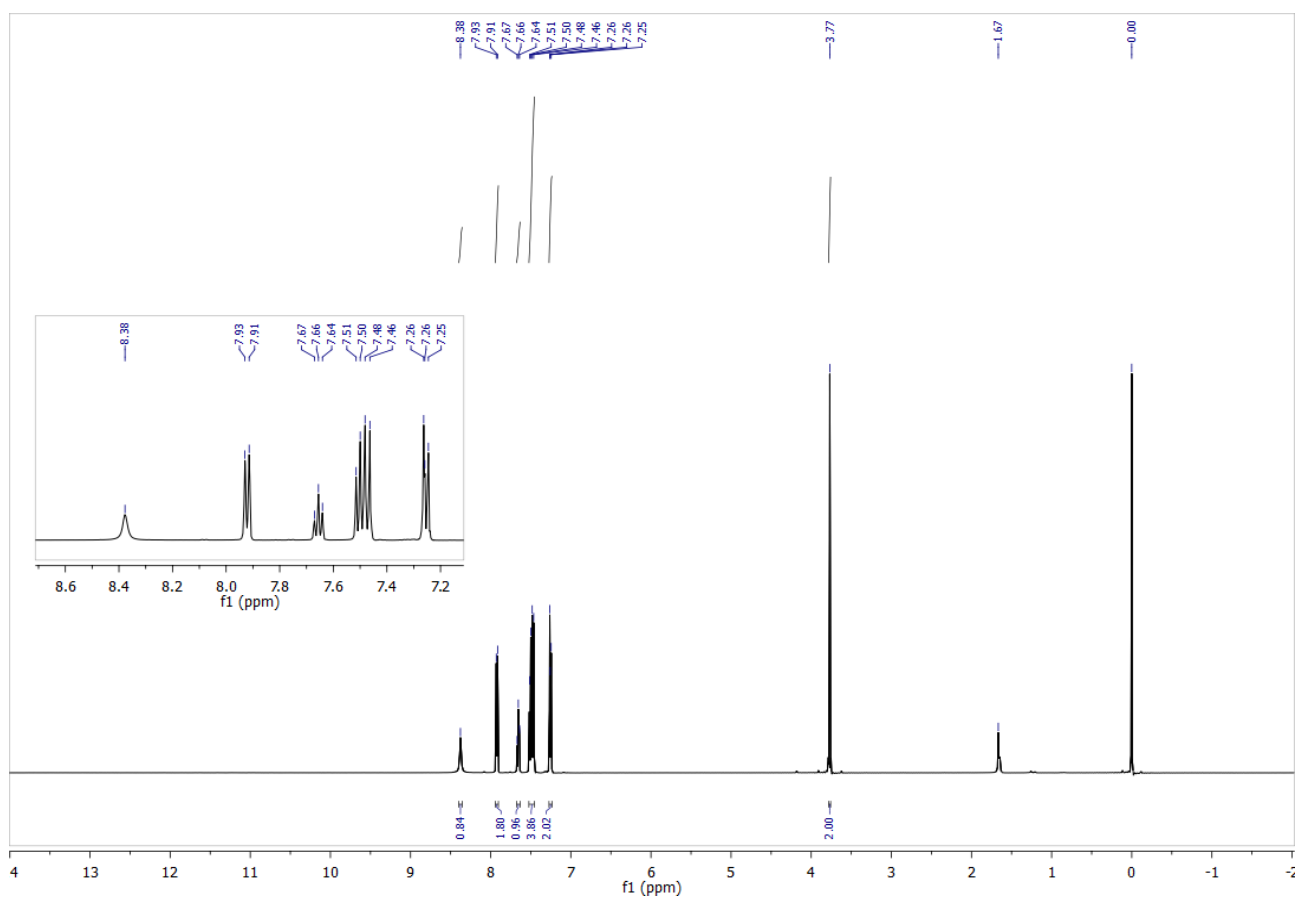


Figure S16.  $^1\text{H}$  NMR spectrum (500 MHz,  $\text{CDCl}_3$ ) of compound **7f**.

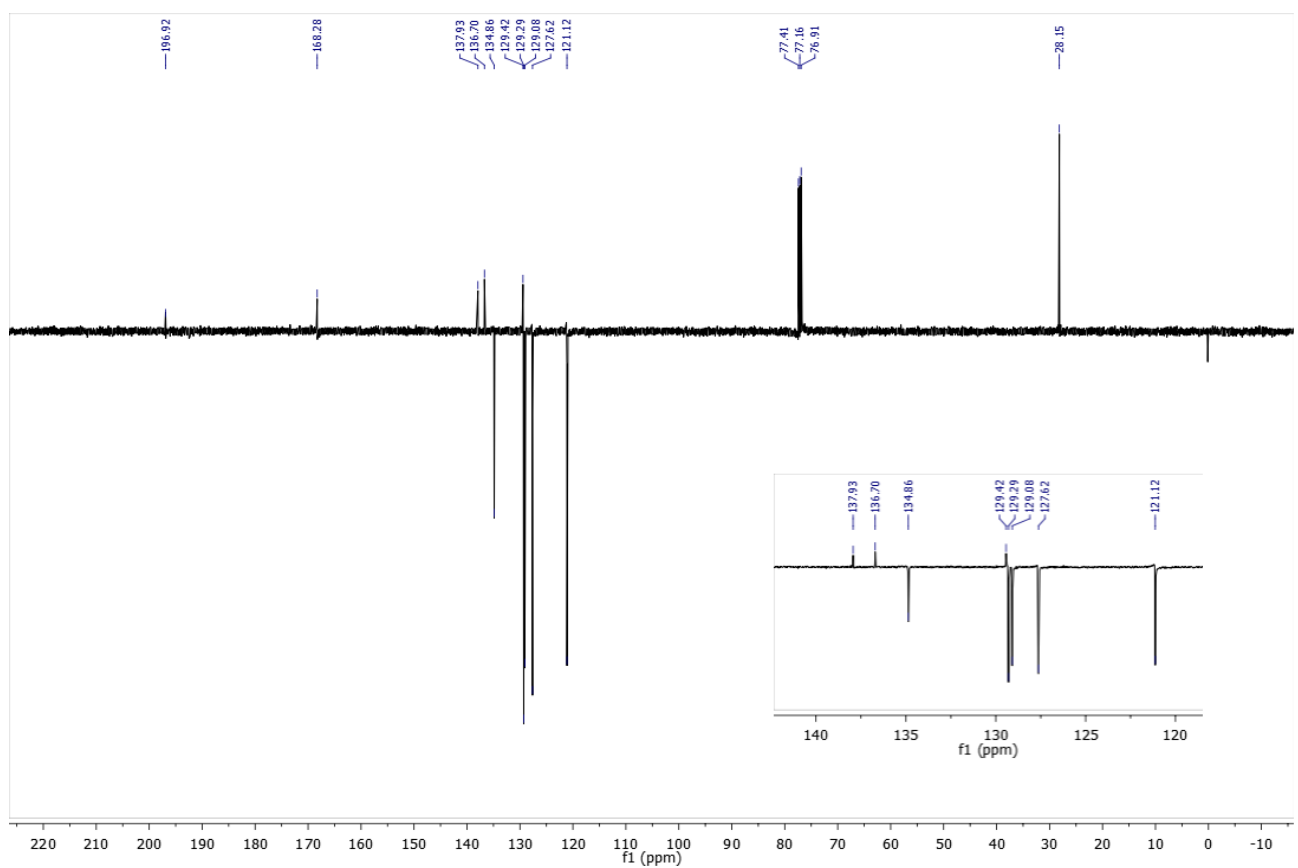
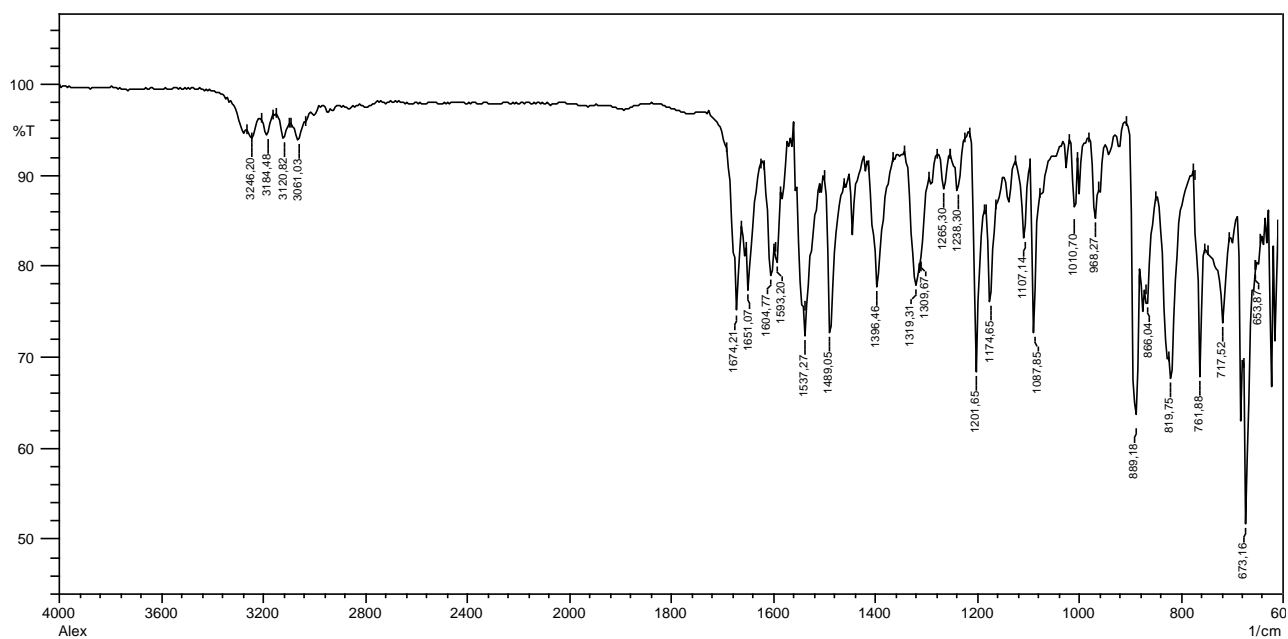
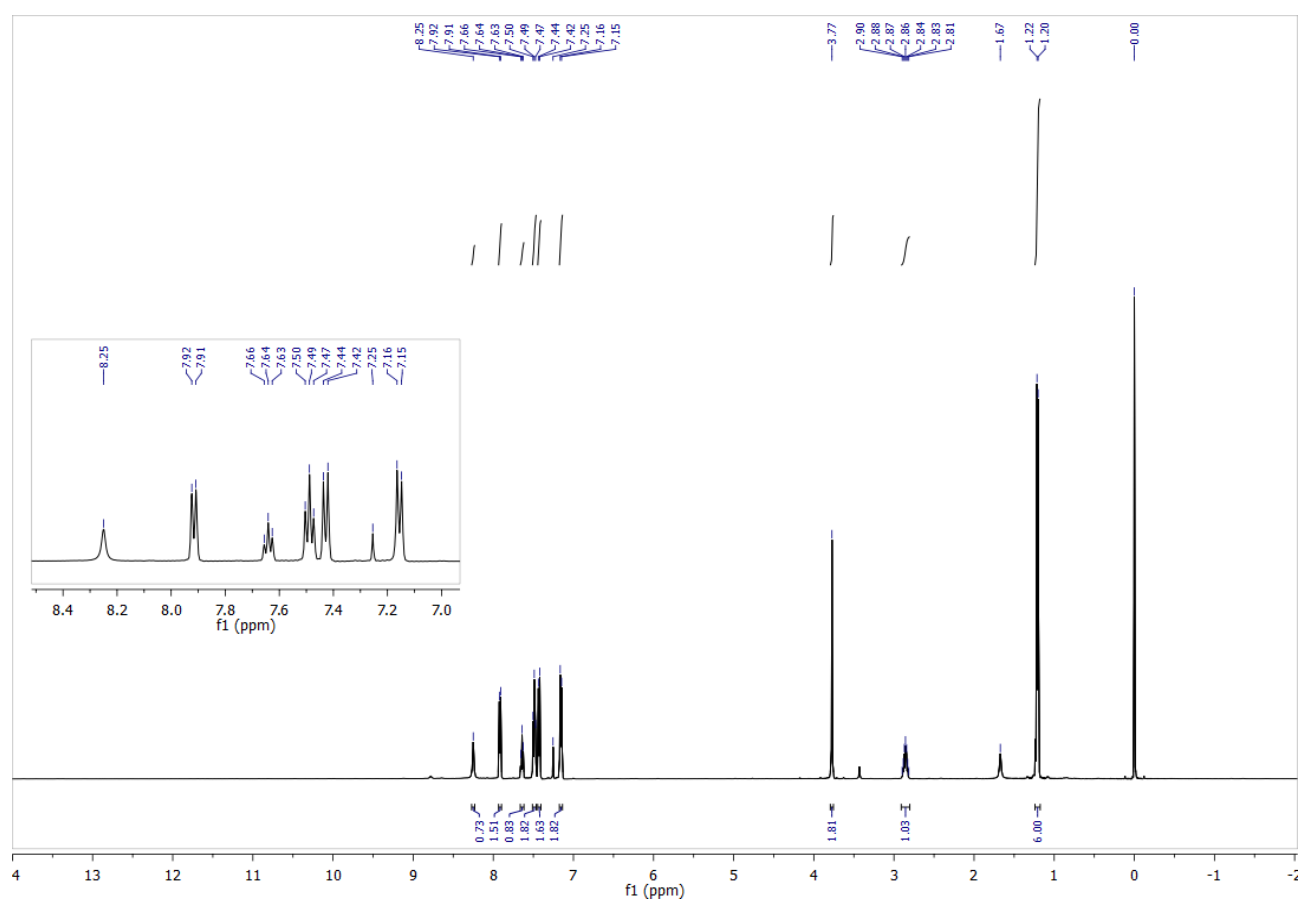


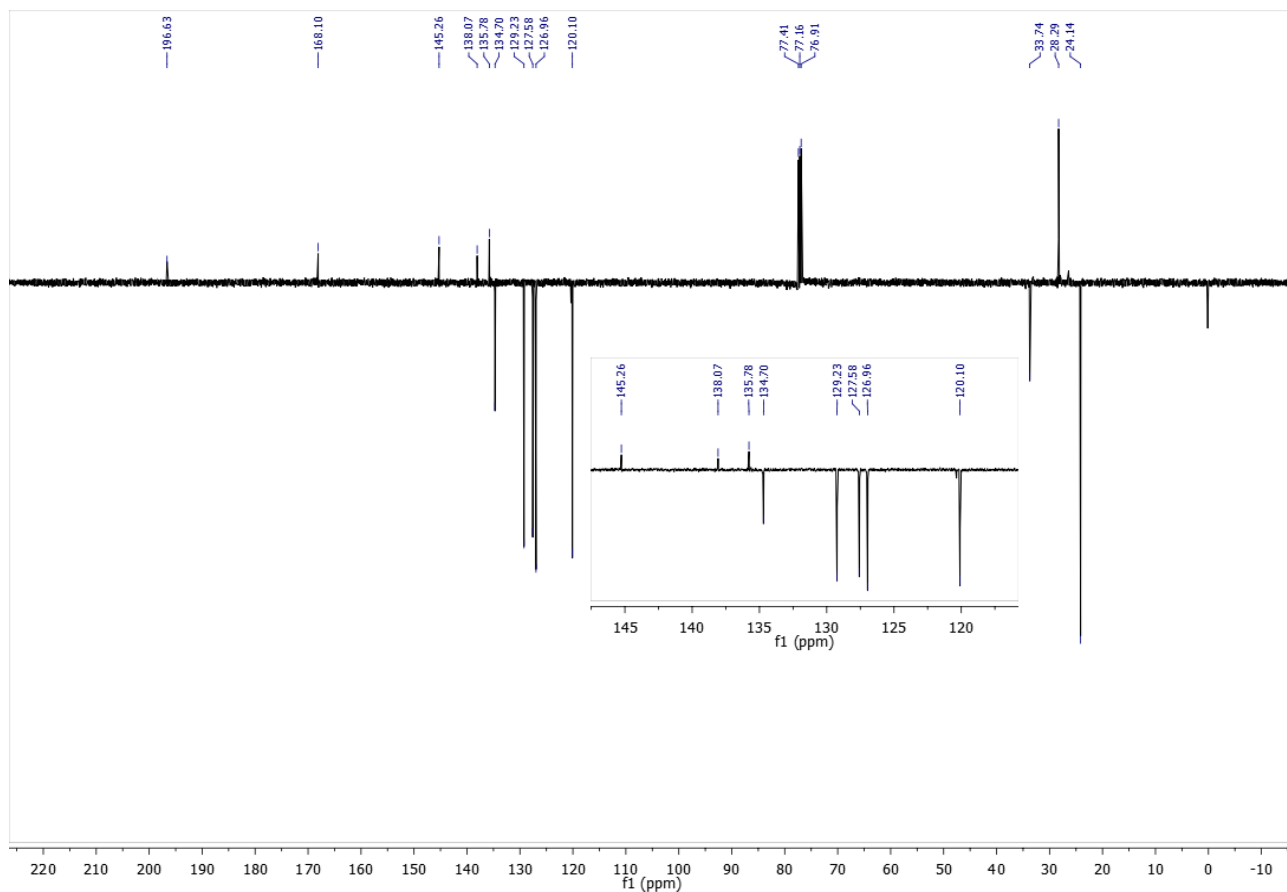
Figure S17.  $^{13}\text{C}$  NMR spectrum (126 MHz,  $\text{CDCl}_3$ ) of compound **7f**.



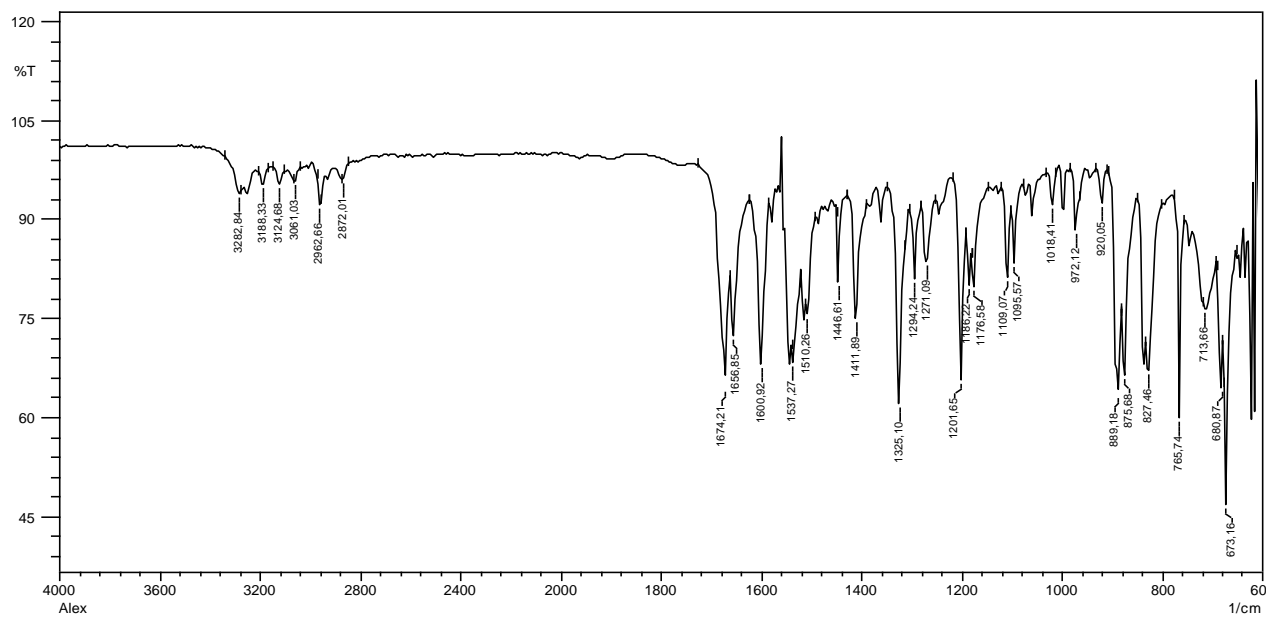
**Figure S18.** FTIR (KBr) spectrum of compound **7f**.



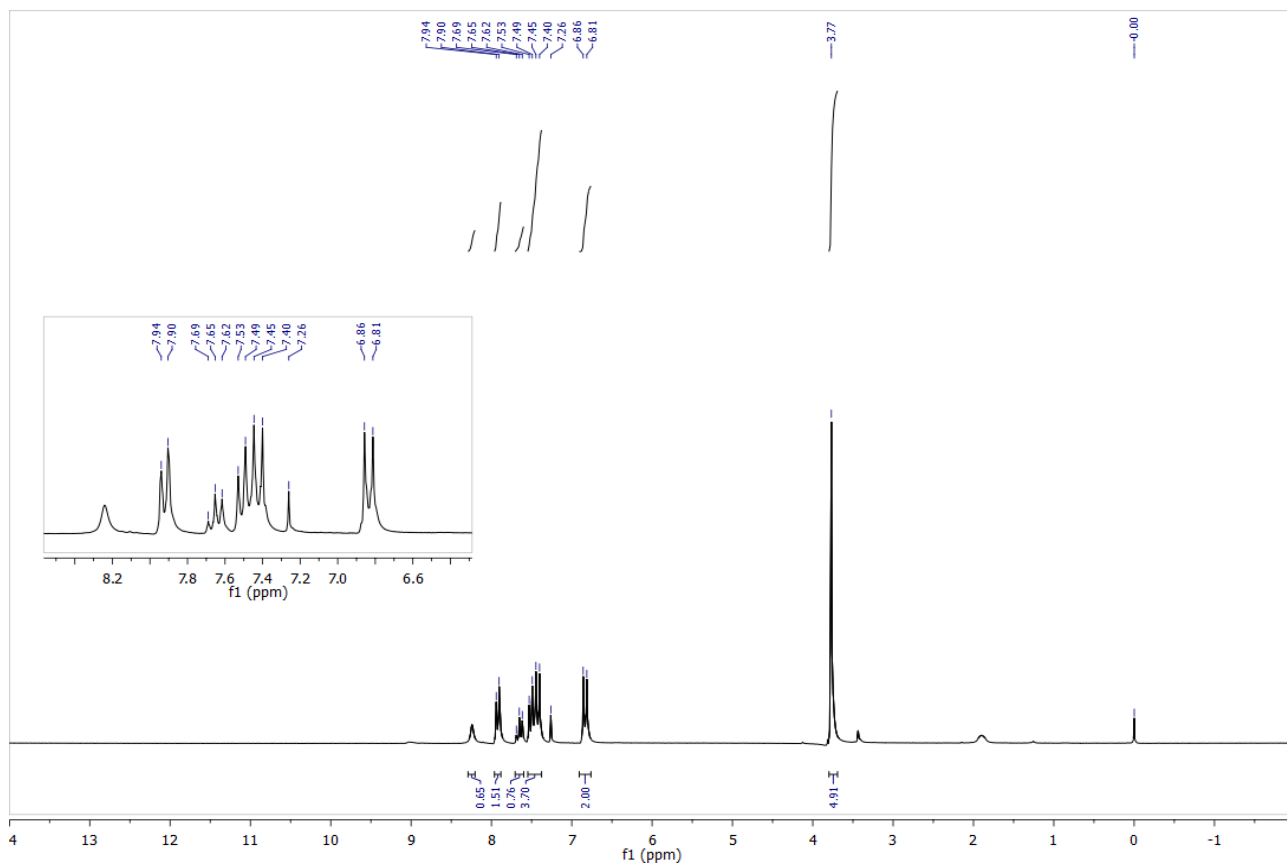
**Figure S19.**  $^1\text{H}$  NMR spectrum (500 MHz,  $\text{CDCl}_3$ ) of compound **7g**.



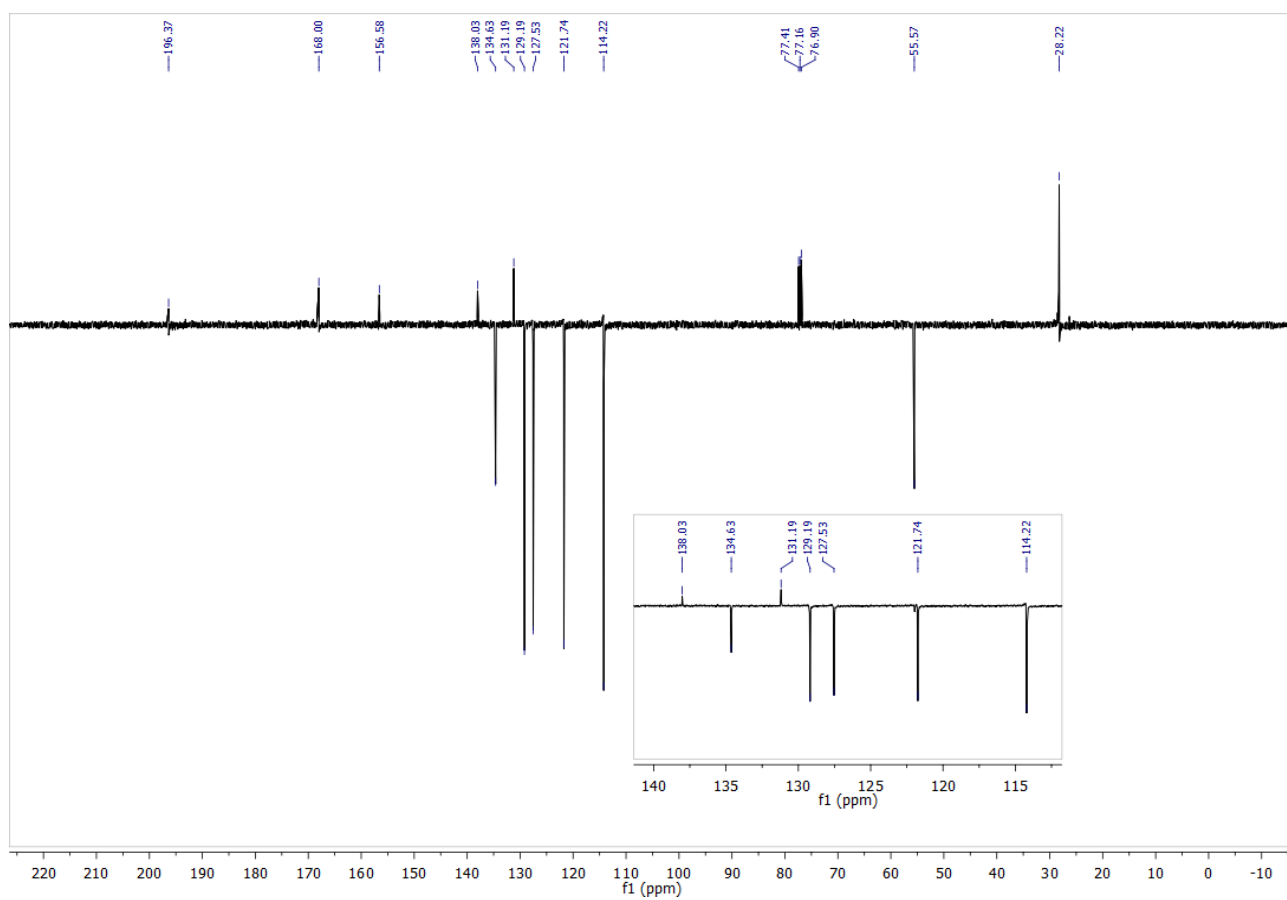
**Figure S20.**  $^{13}\text{C}$  NMR spectrum (126 MHz,  $\text{CDCl}_3$ ) of compound **7g**.



**Figure S21.** FTIR (KBr) spectrum of compound **7g**.



**Figure S22.**  $^1\text{H}$  NMR spectrum (200 MHz,  $\text{CDCl}_3$ ) of compound **7h**.



**Figure S23.**  $^{13}\text{C}$  NMR spectrum (50 MHz,  $\text{CDCl}_3$ ) of compound **7h**.

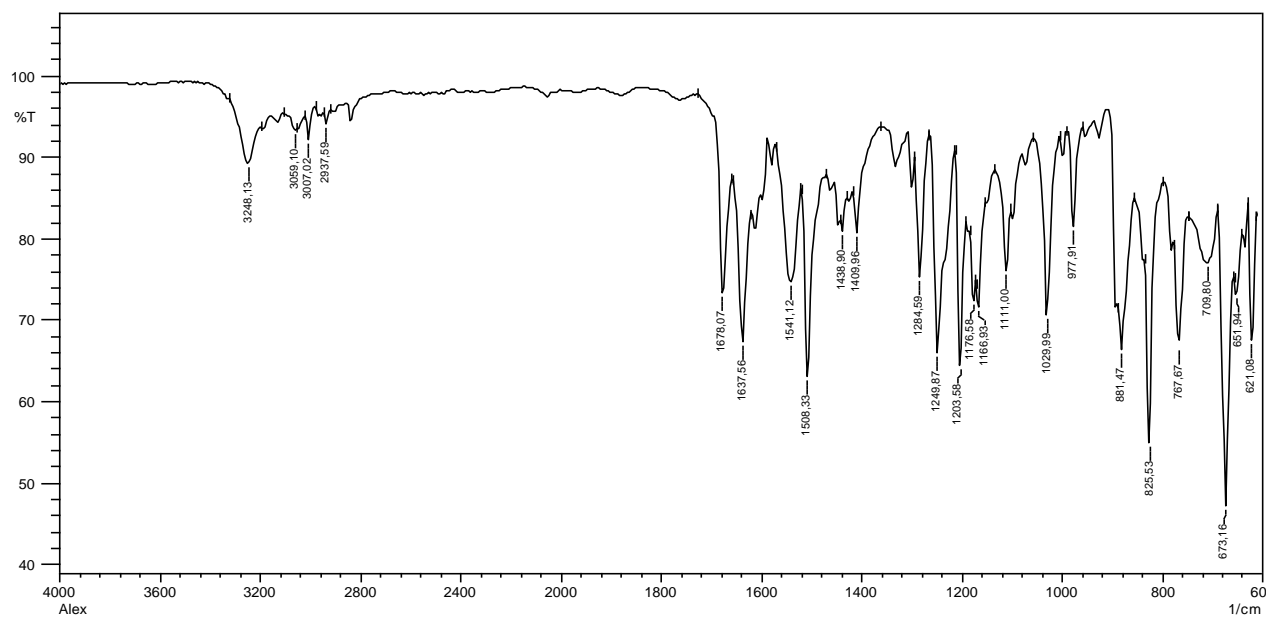


Figure S24. FTIR (KBr) spectrum of compound 7h.

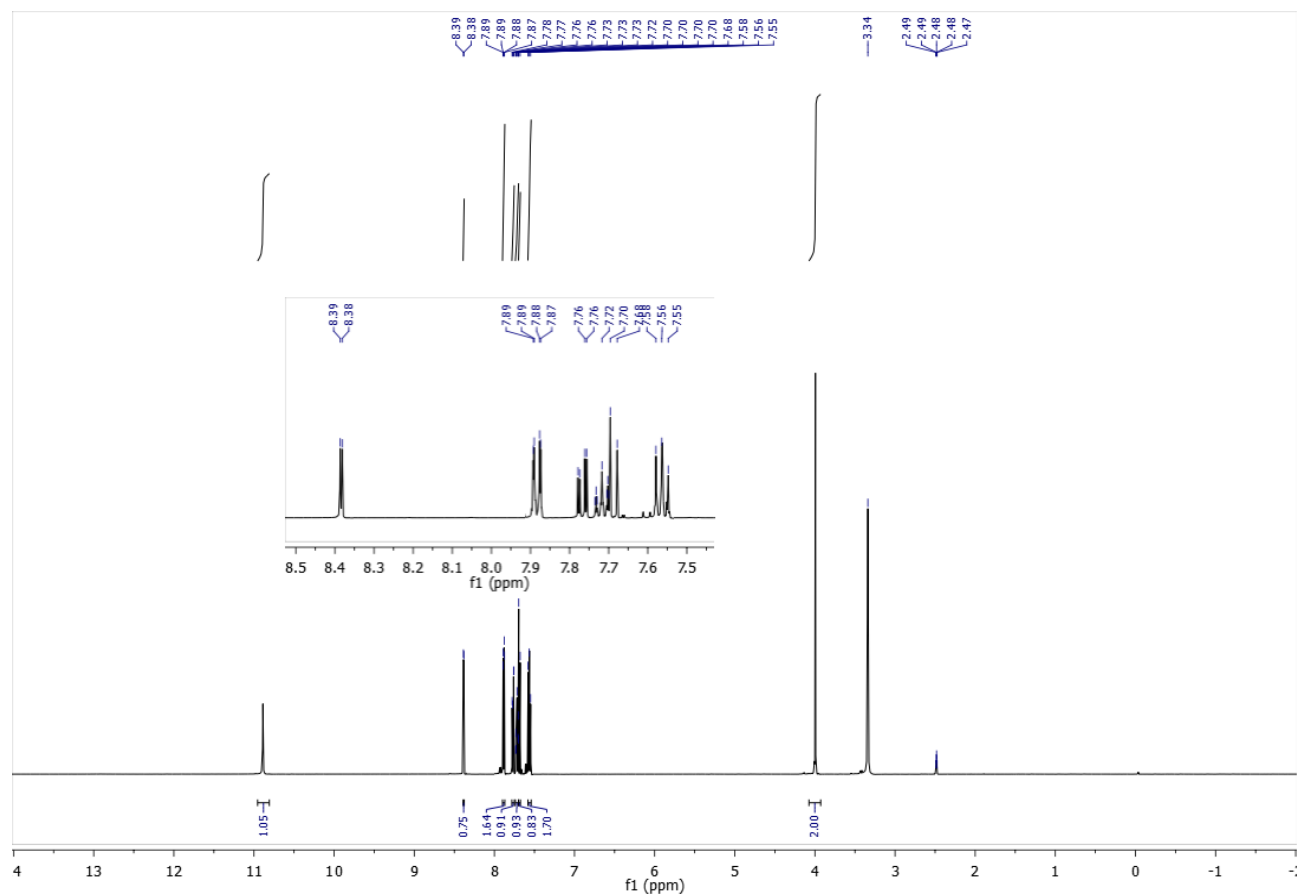


Figure S25. <sup>1</sup>H NMR spectrum (500 MHz, DMSO) of compound 7i.

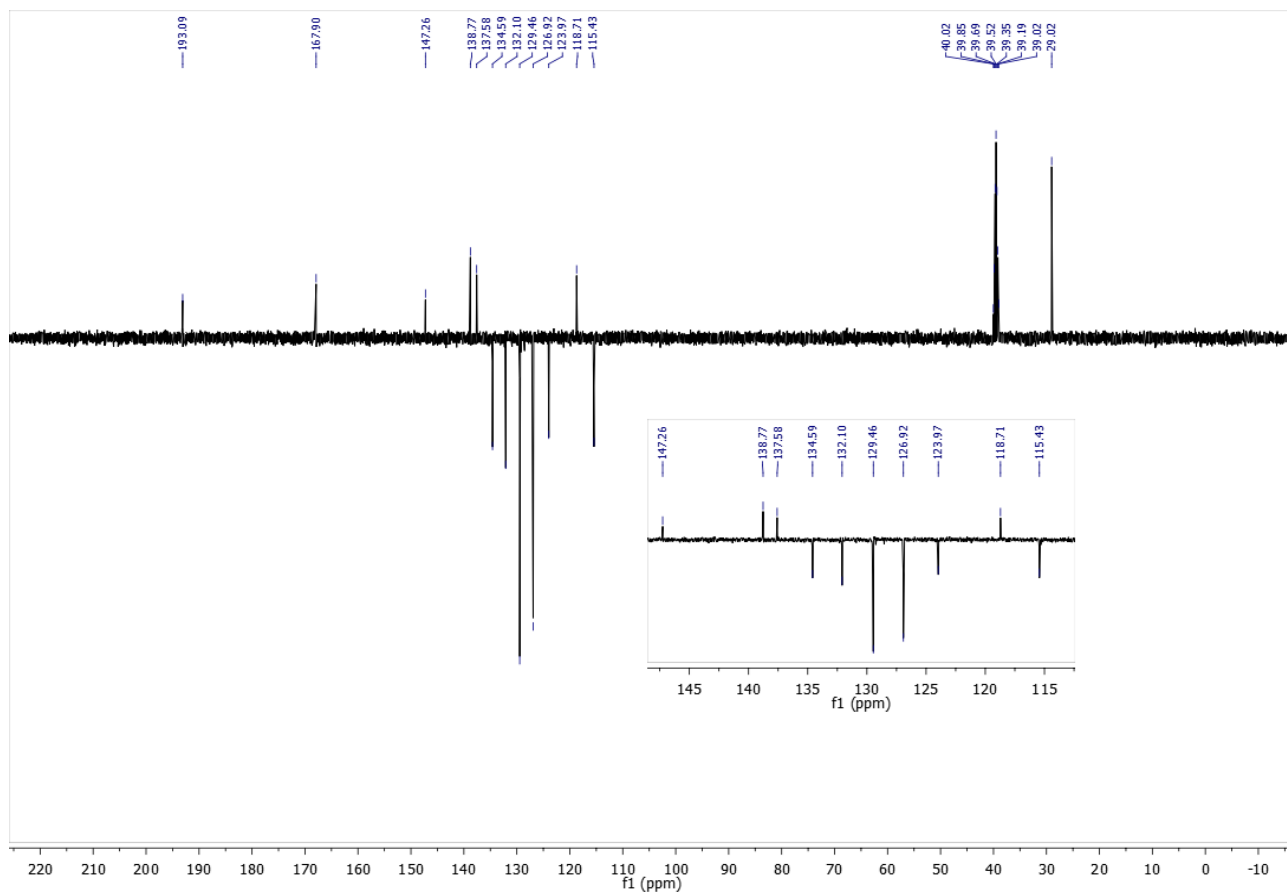


Figure S26.  $^{13}\text{C}$  NMR spectrum (126 MHz, DMSO) of compound **7i**.

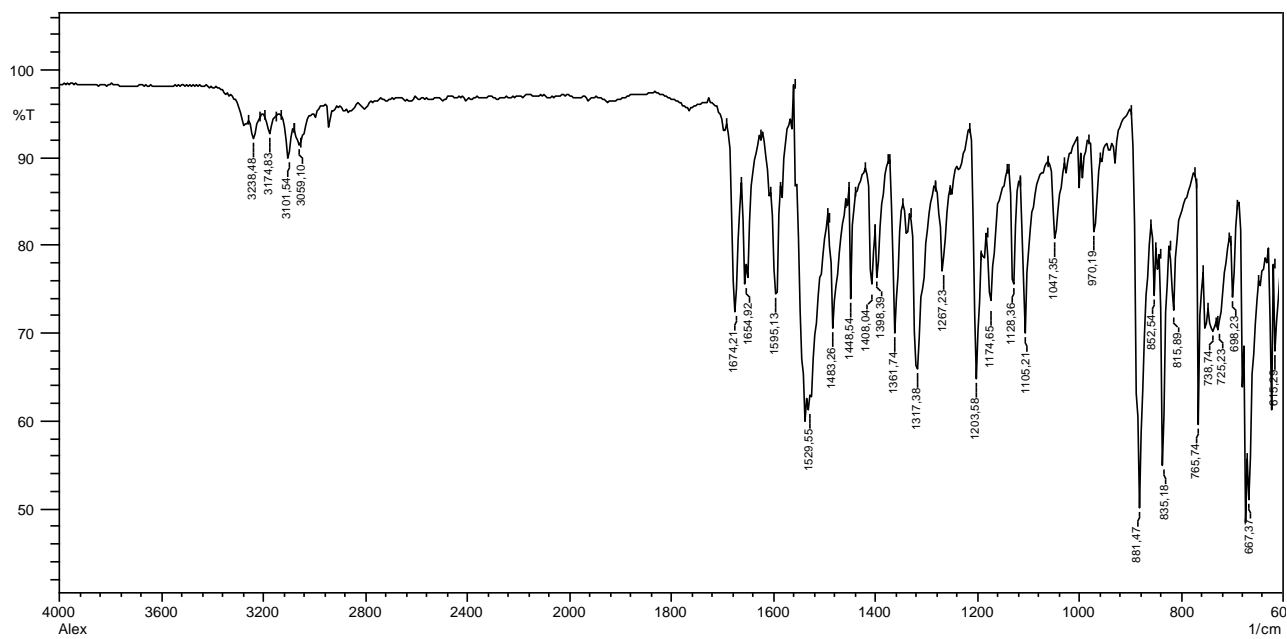


Figure S27. FTIR (KBr) spectrum of compound **7i**.