

## SUPPLEMENTARY MATERIAL

# Click Synthesis of Shape-Persistent Azodendrimers and Their Orthogonal Self-Assembly to Nanofibres

**Tamer El Malah\* and Hany F. Nour**

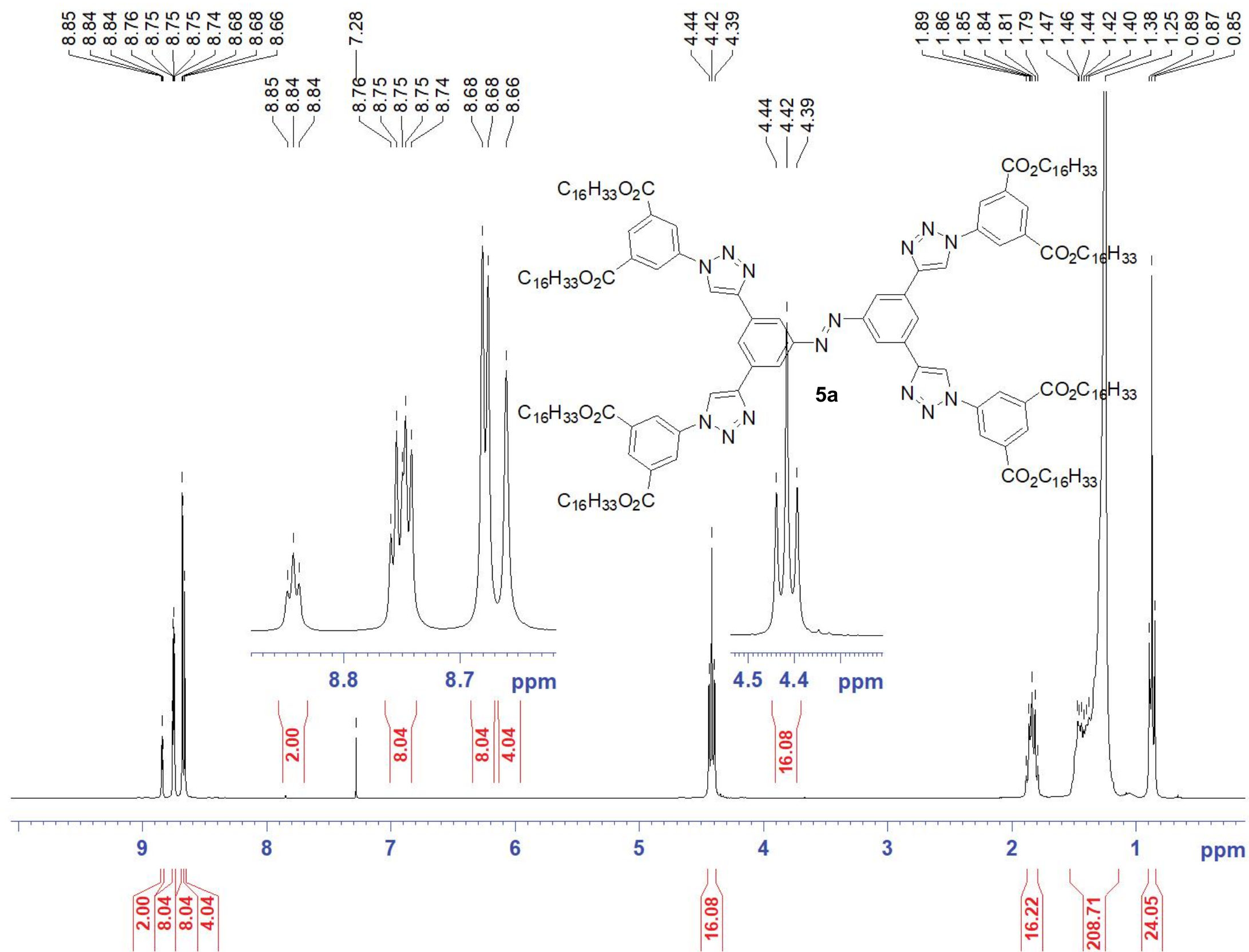
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Egypt.*

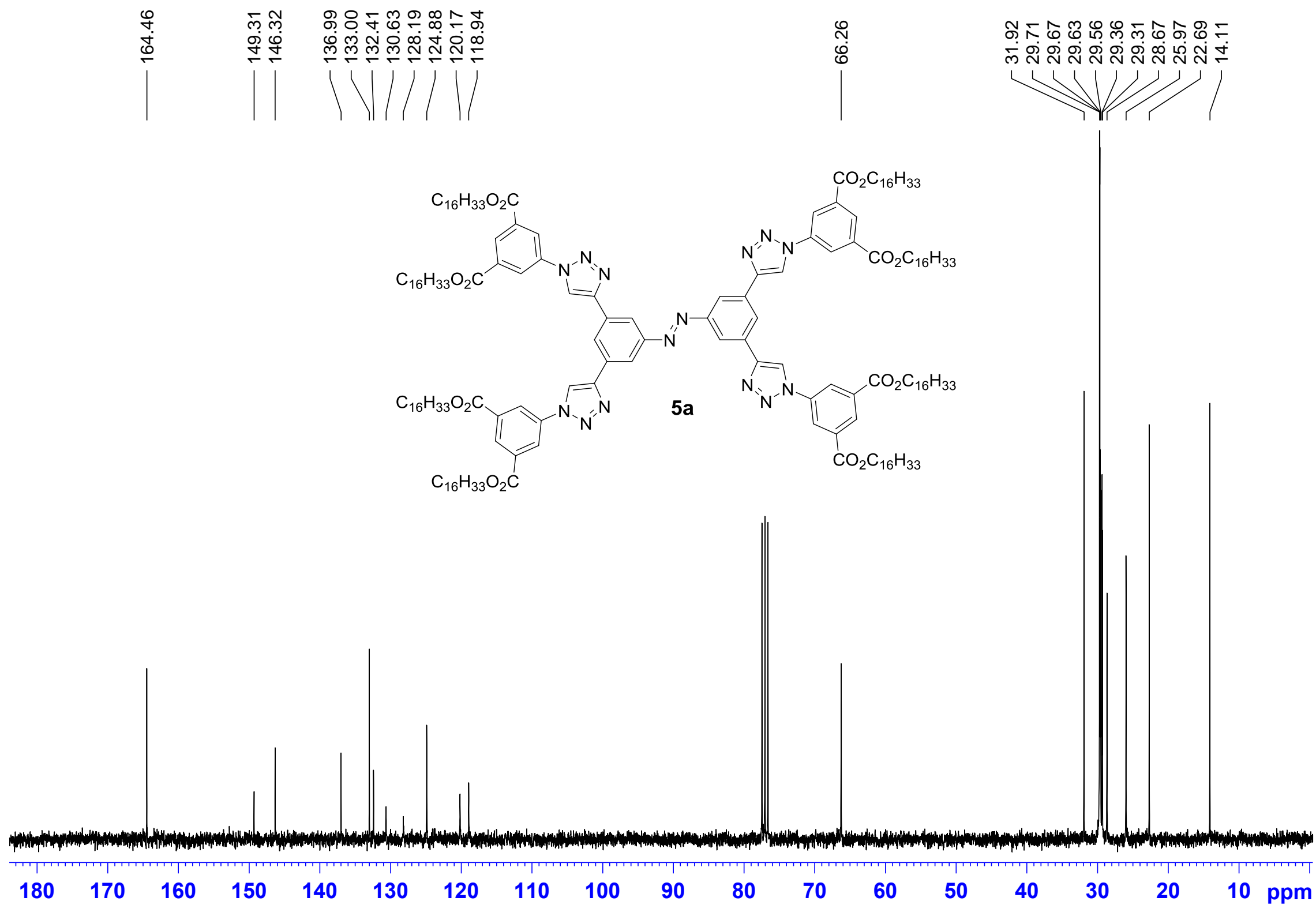
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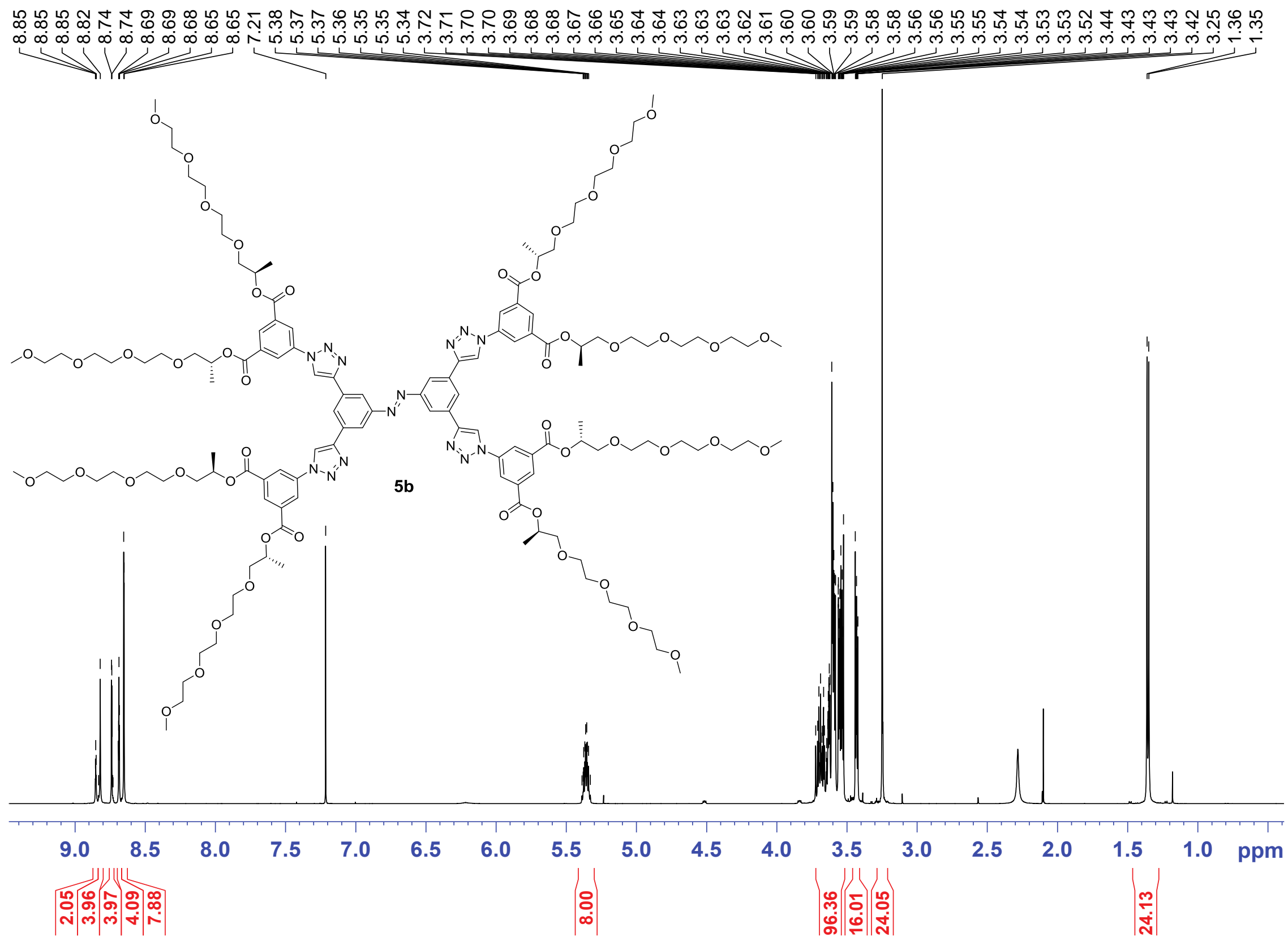
# Spectroscopic Characterization Data



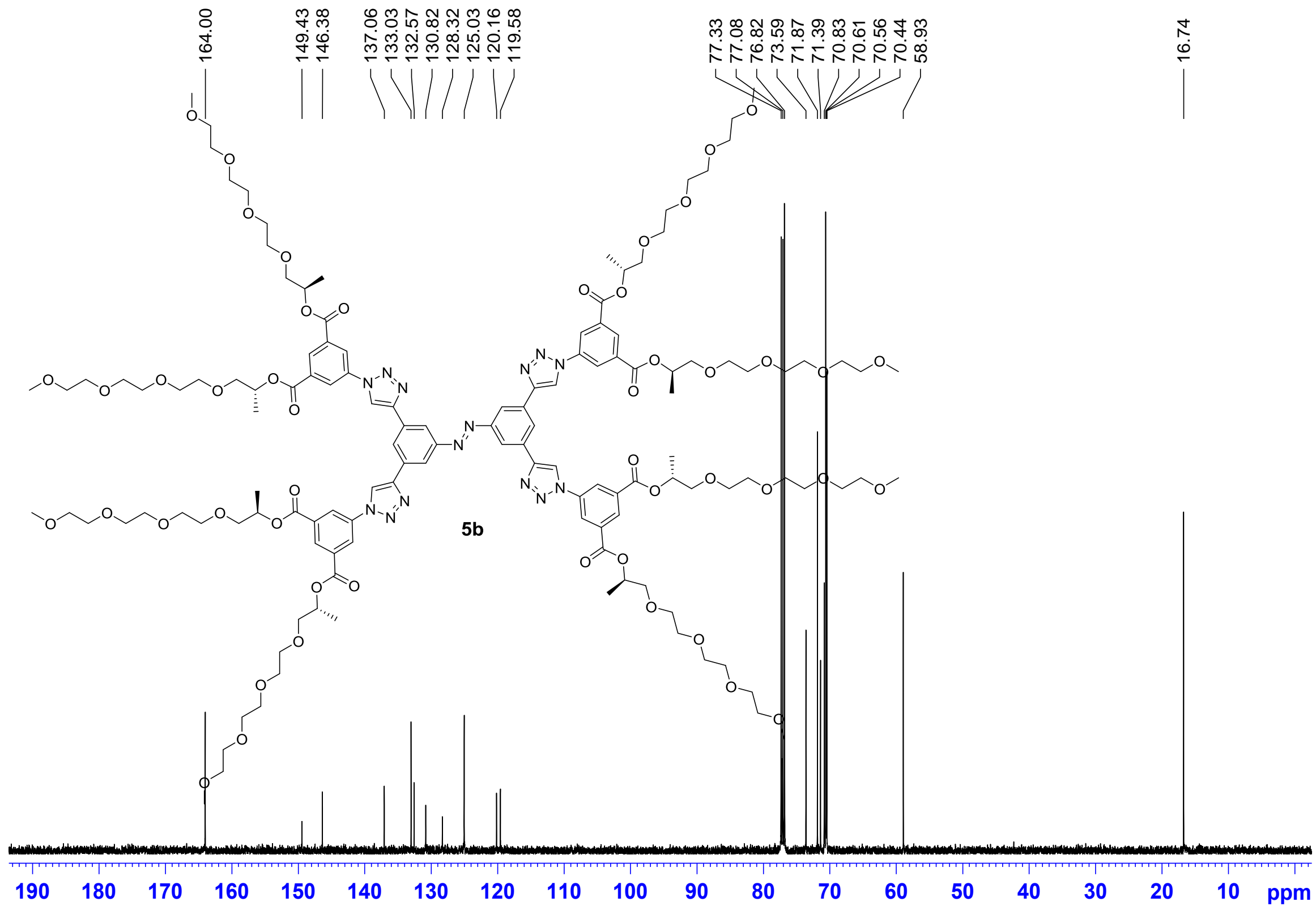
**Fig. 1.** <sup>1</sup>H-NMR spectrum of **5a** (CDCl<sub>3</sub>, 300 MHz, 298 K).



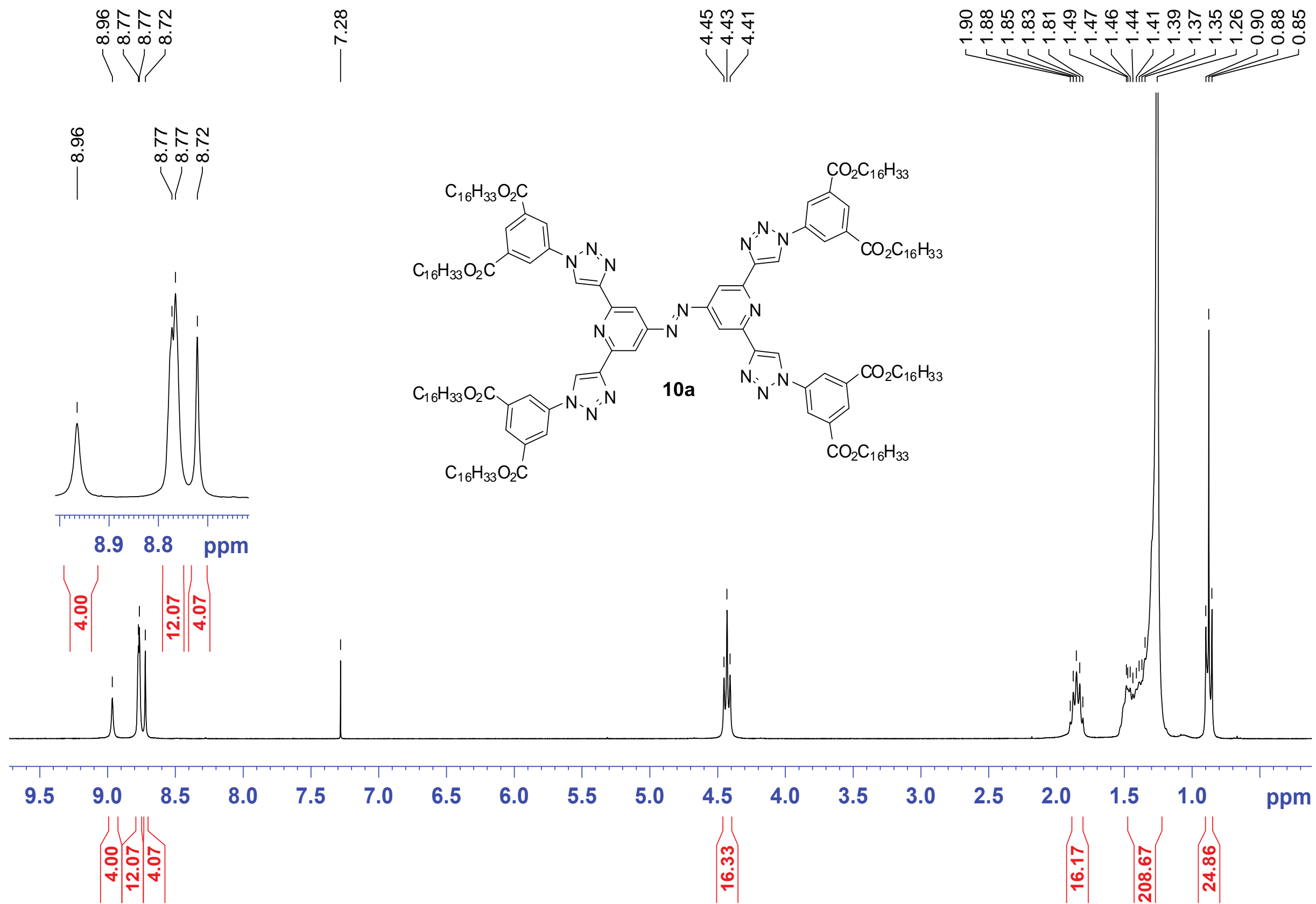
**Fig. 2.**  $^{13}C$ -NMR spectrum of **5a** (CDCl<sub>3</sub>, 75 MHz, 298 K).



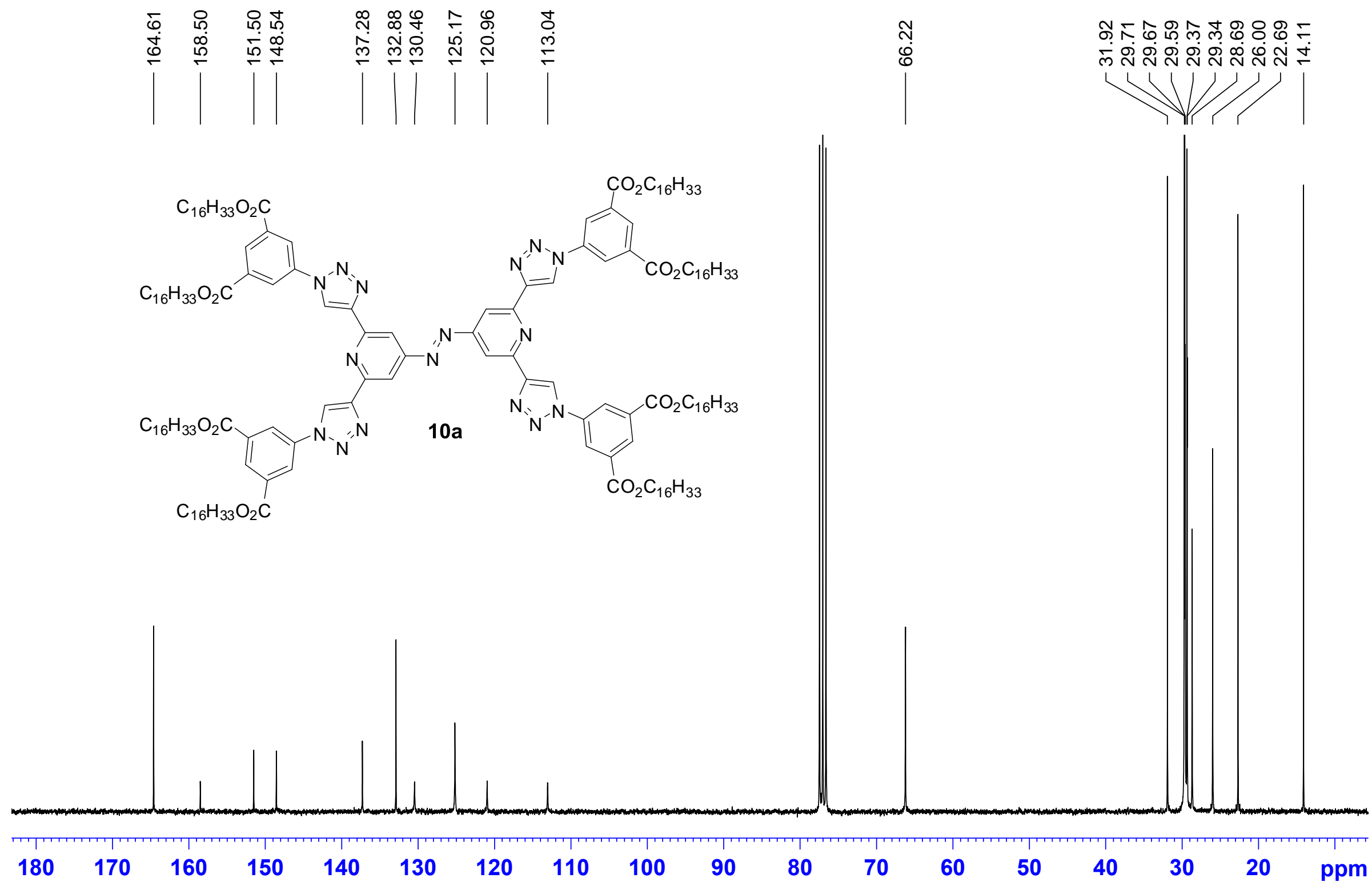
**Fig. 3.** <sup>1</sup>H-NMR spectrum of **5b** (CDCl<sub>3</sub>, 300 MHz, 298 K).



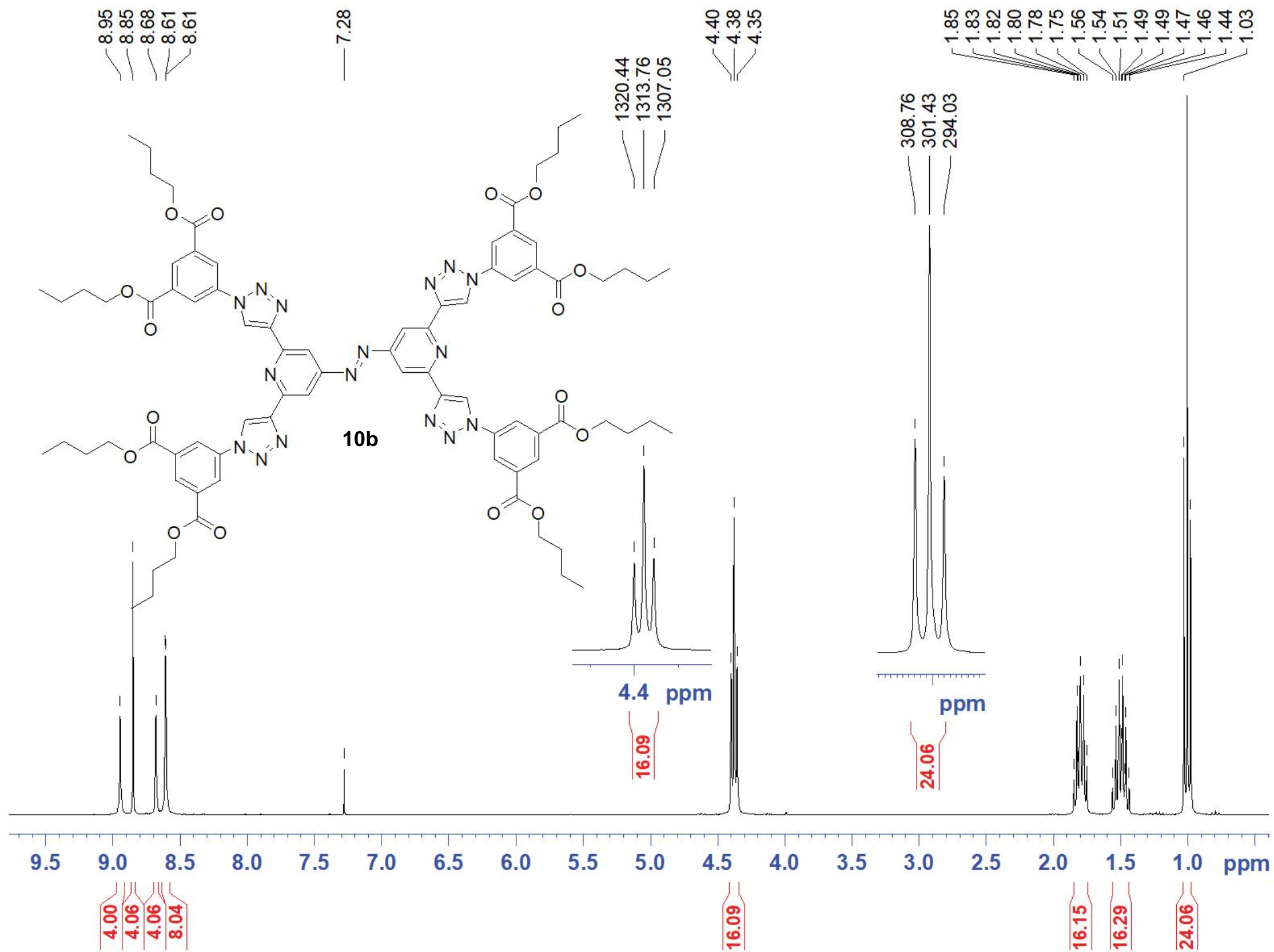
**Fig. 4.**  $^{13}\text{C}$ -NMR spectrum of **5b** ( $\text{CDCl}_3$ , 75 MHz, 298 K).



**Fig. 5.**  $^1\text{H-NMR}$  spectrum of **10a** (CDCl<sub>3</sub>, 300 MHz, 298 K).

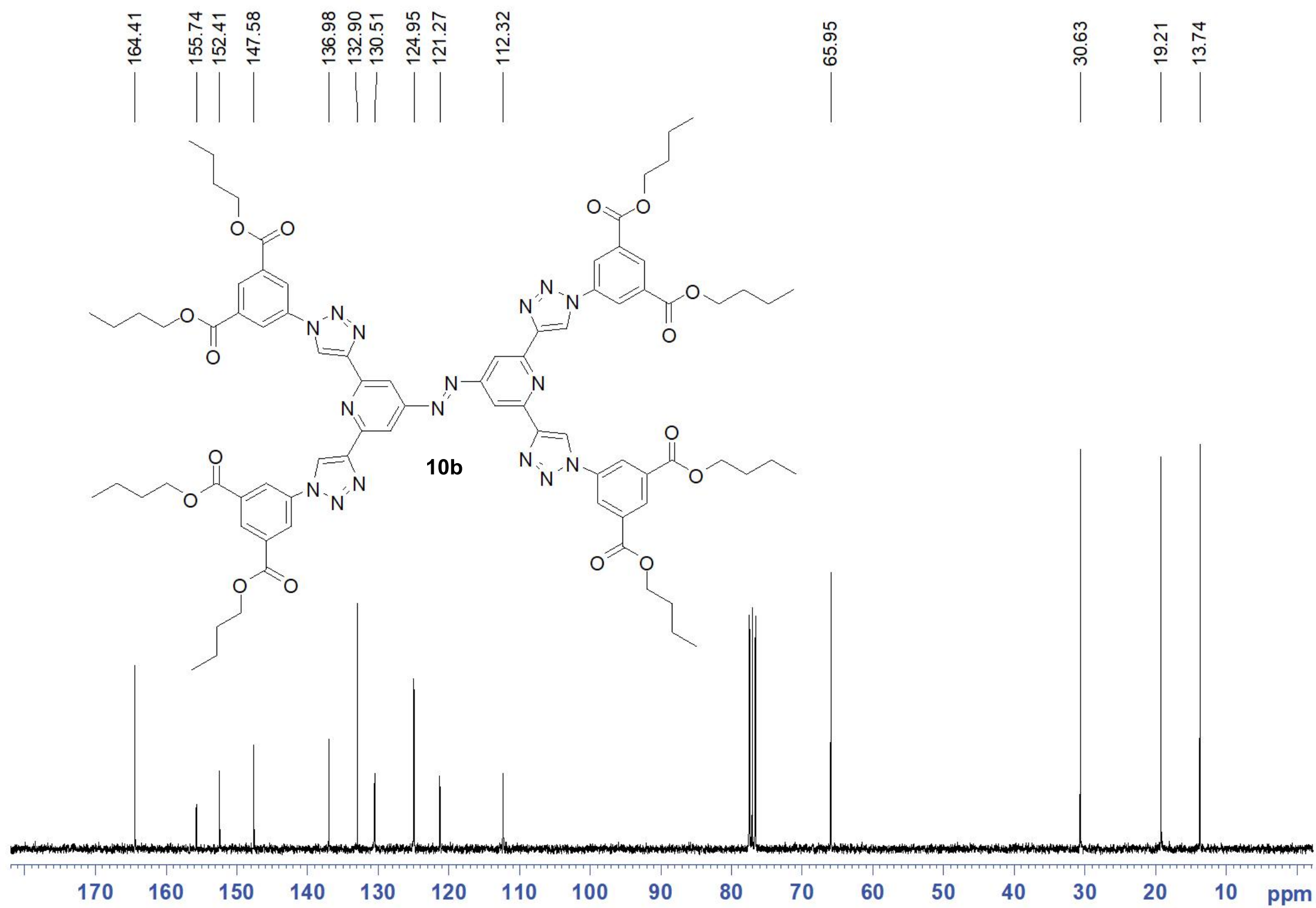


**Fig. 6.**  $^{13}\text{C}$ -NMR spectrum of **10a** ( $\text{CDCl}_3$ , 75 MHz, 298 K).

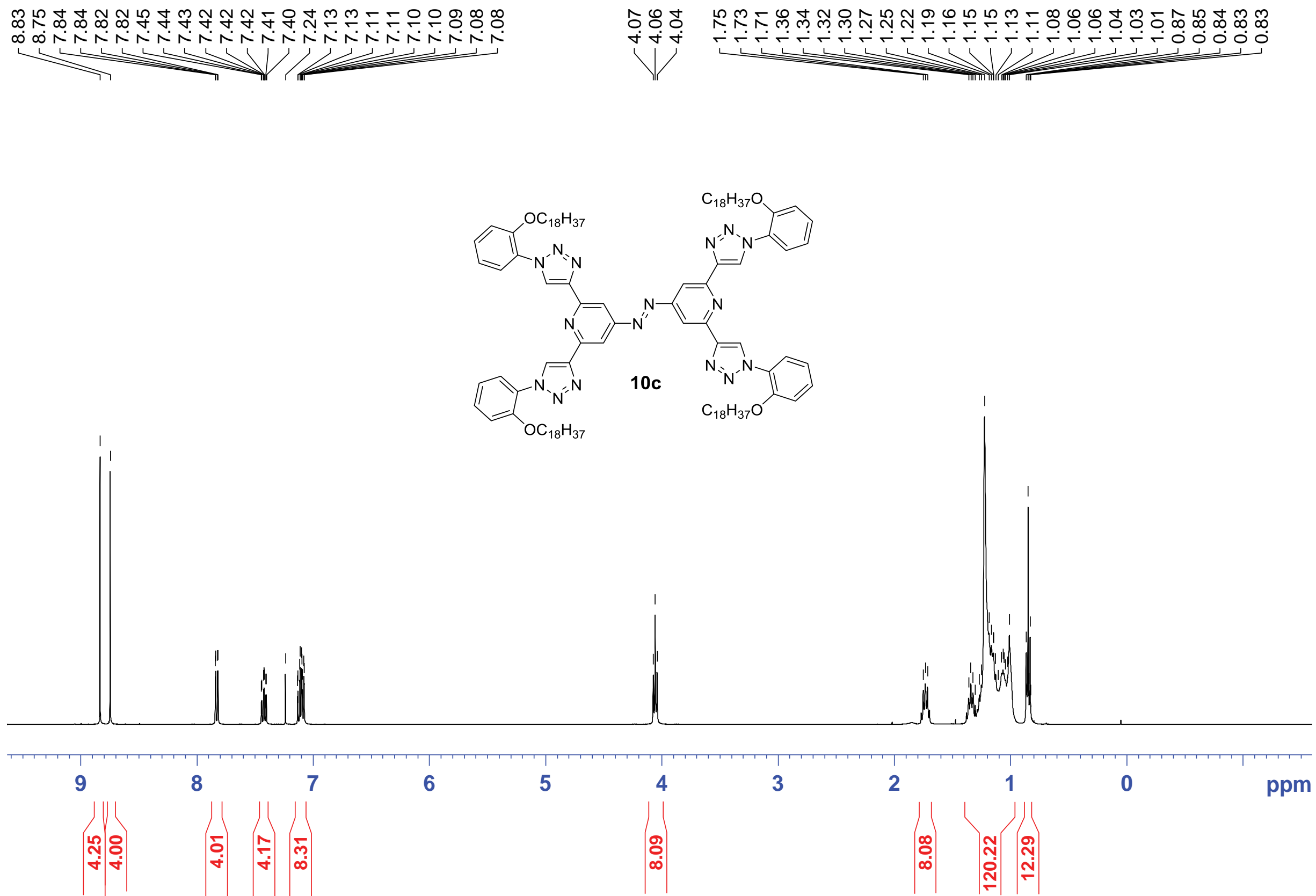


**Fig. 7.**  $^1\text{H}$  NMR spectrum of **10b** ( $\text{CDCl}_3$ , 300 MHz, 298 K).

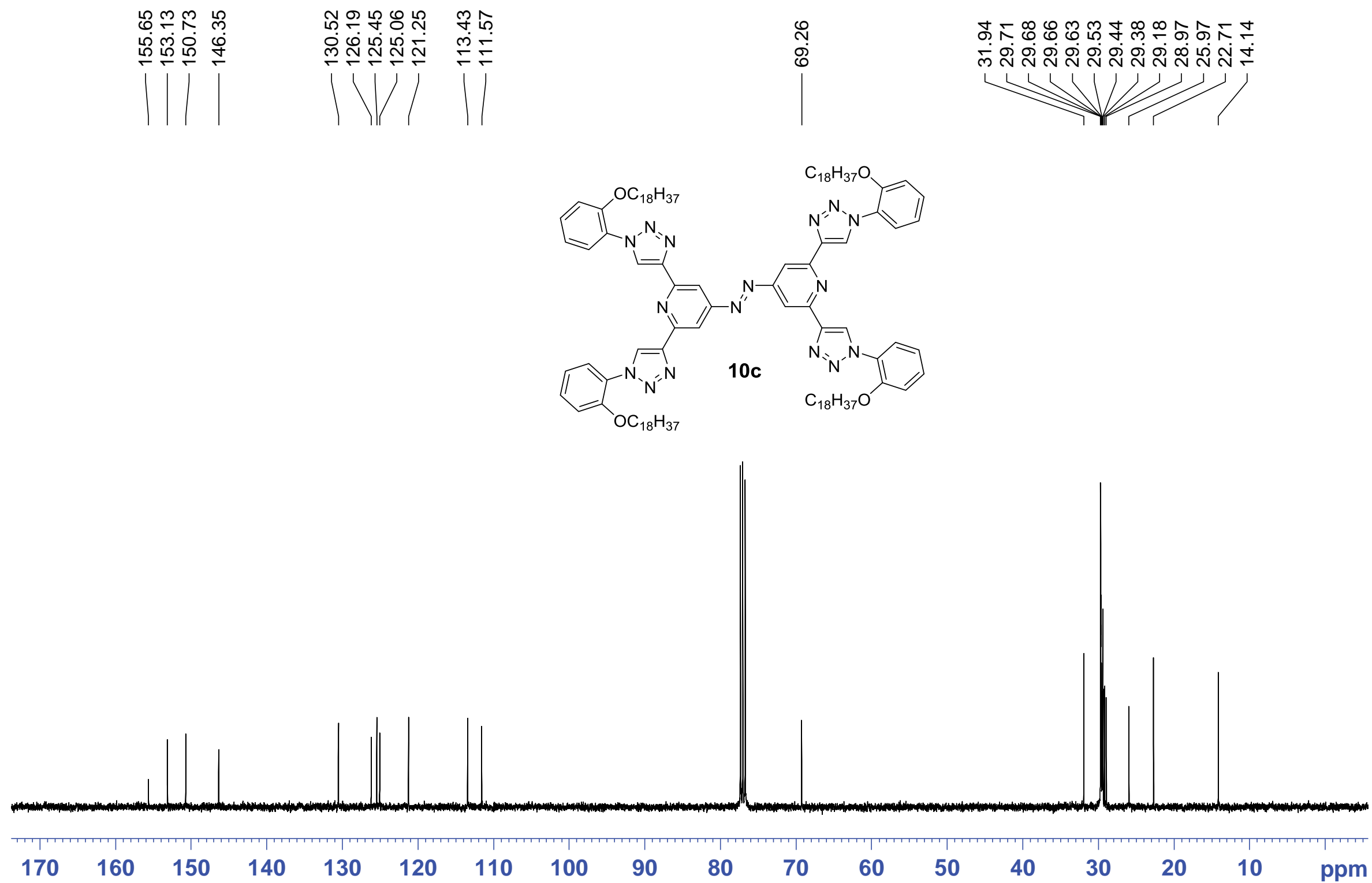




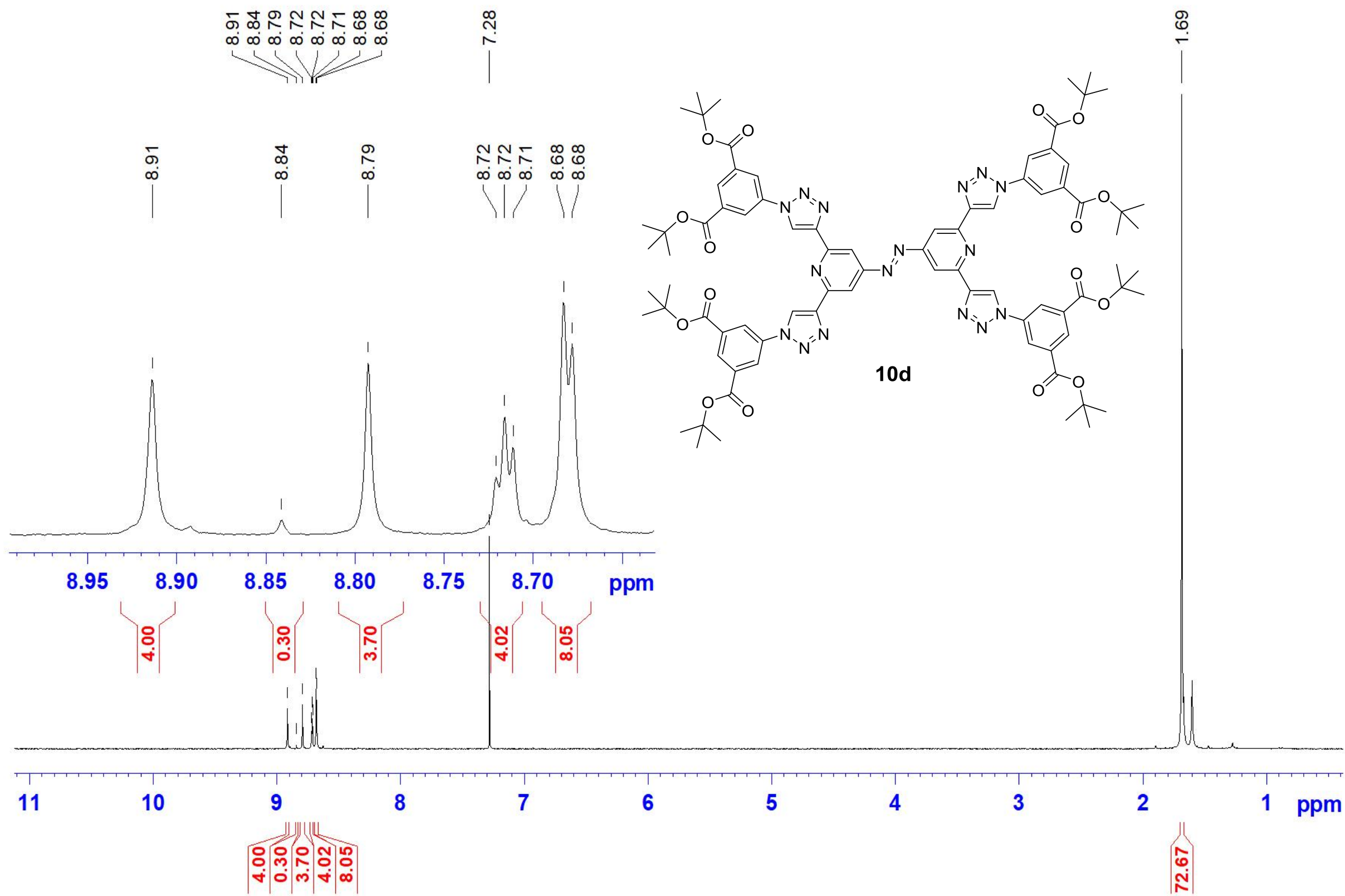
**Fig. 8.**  $^{13}\text{C}$ -NMR spectrum of **10b** ( $\text{CDCl}_3$ , 75 MHz, 298 K).



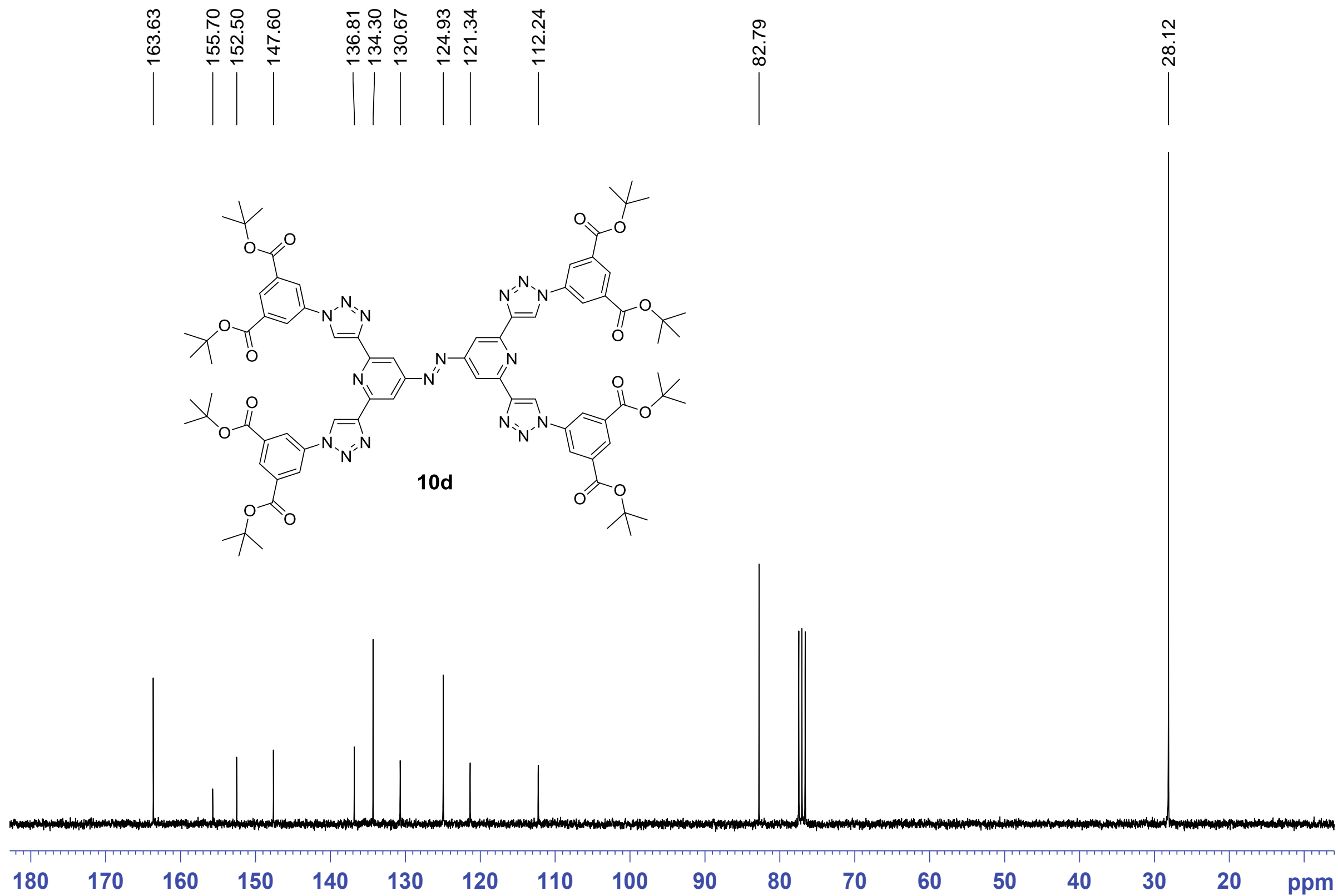
**Fig. 9.** <sup>1</sup>H-NMR spectrum of **10c** (CDCl<sub>3</sub>, 300 MHz, 298 K).



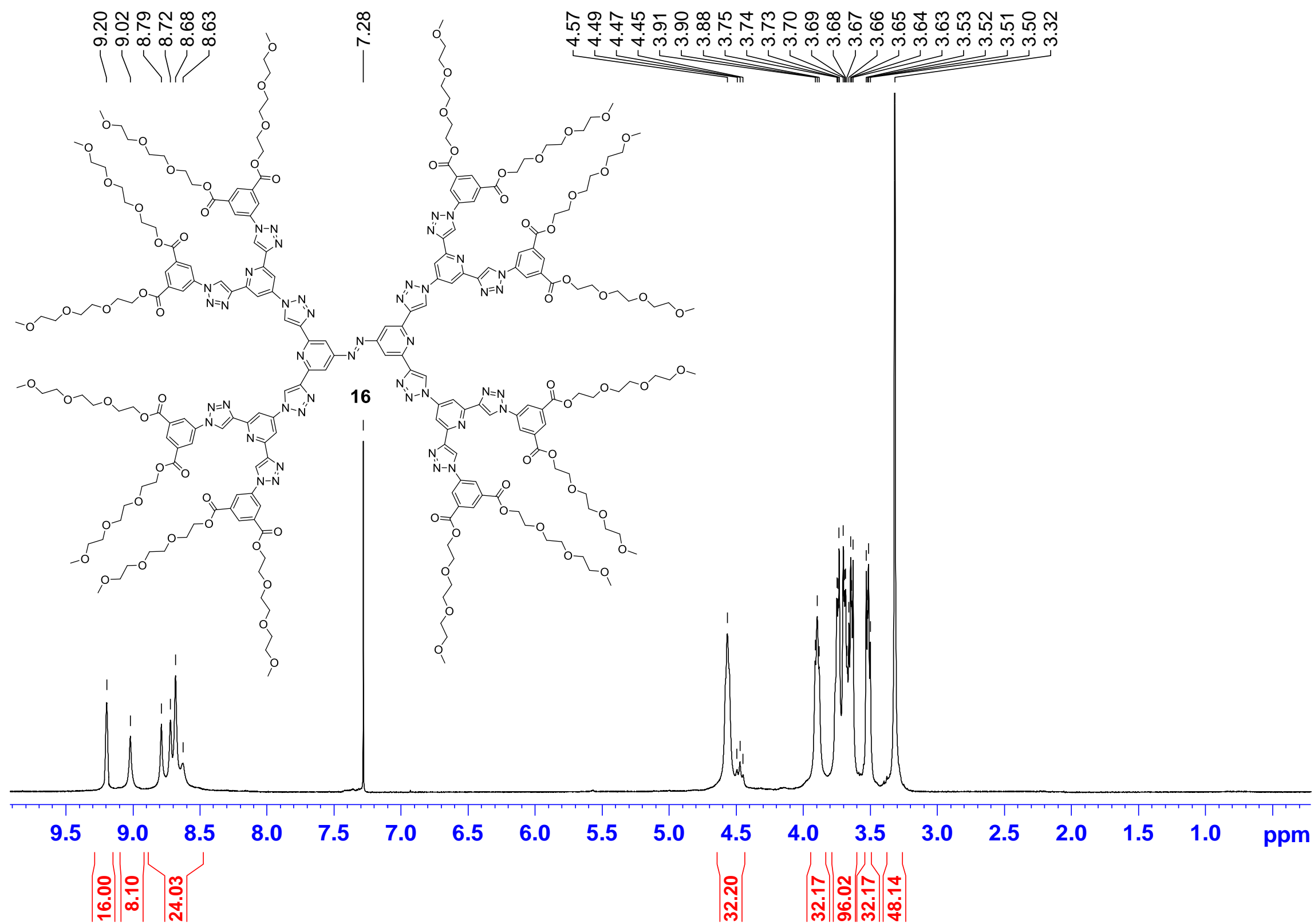
**Fig. 10.**  $^{13}C$ -NMR spectrum of **10c** ( $CDCl_3$ , 75 MHz, 298 K).



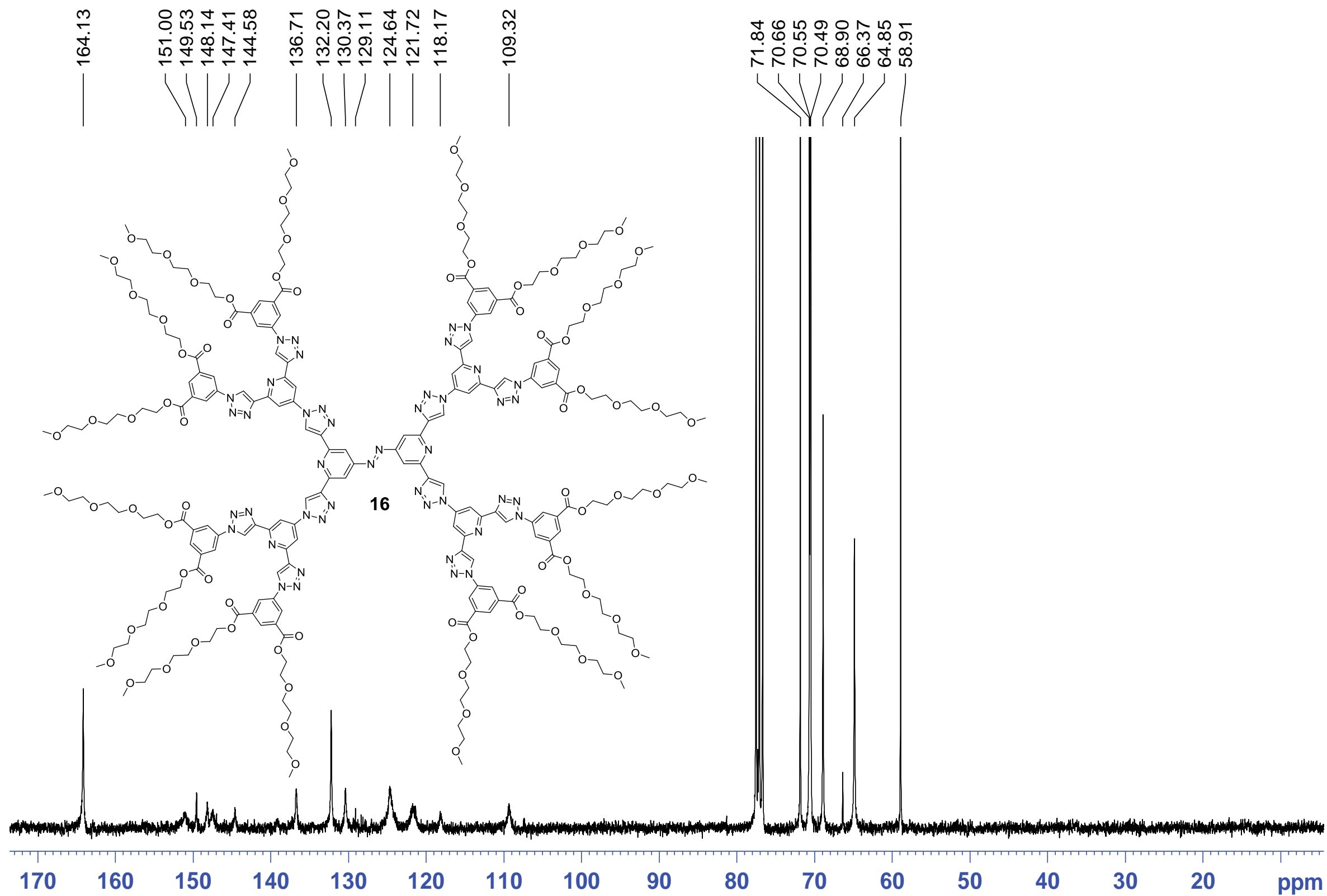
**Fig. 11.**  $^1\text{H-NMR}$  spectrum of **10d** (CDCl<sub>3</sub>, 300 MHz, 298 K).



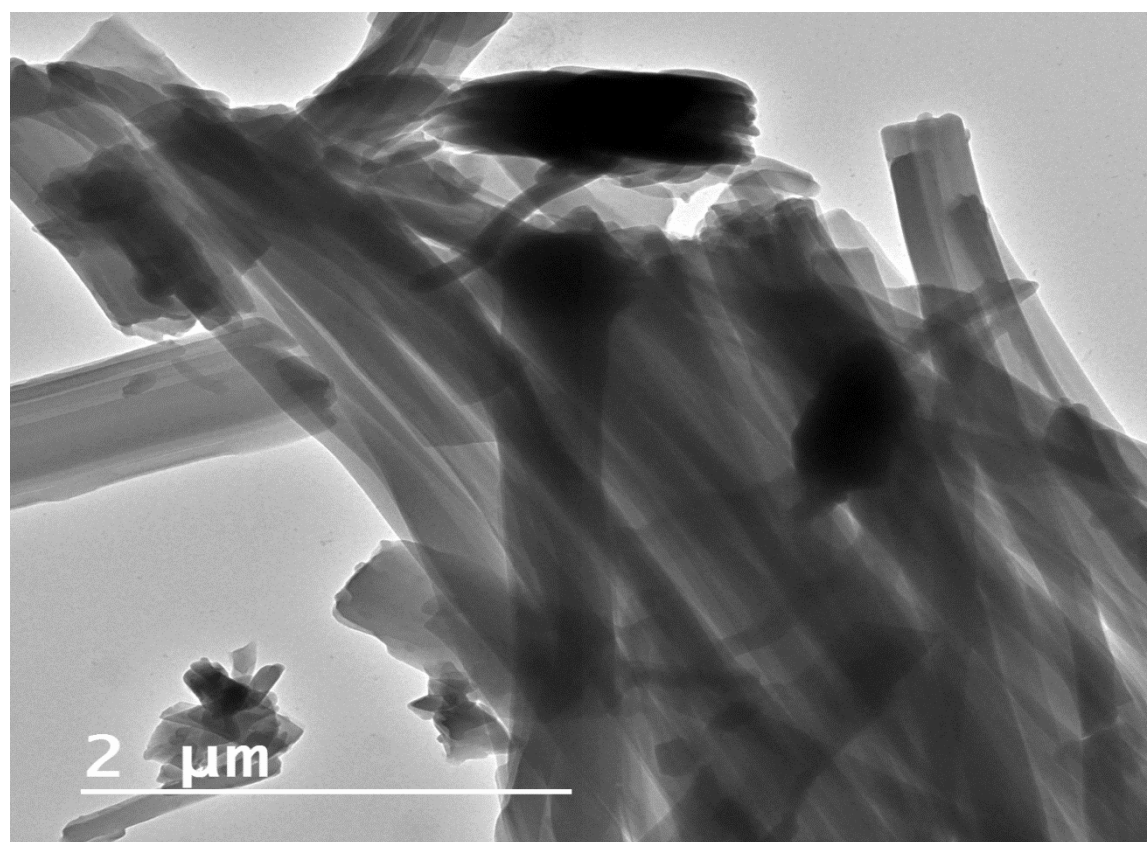
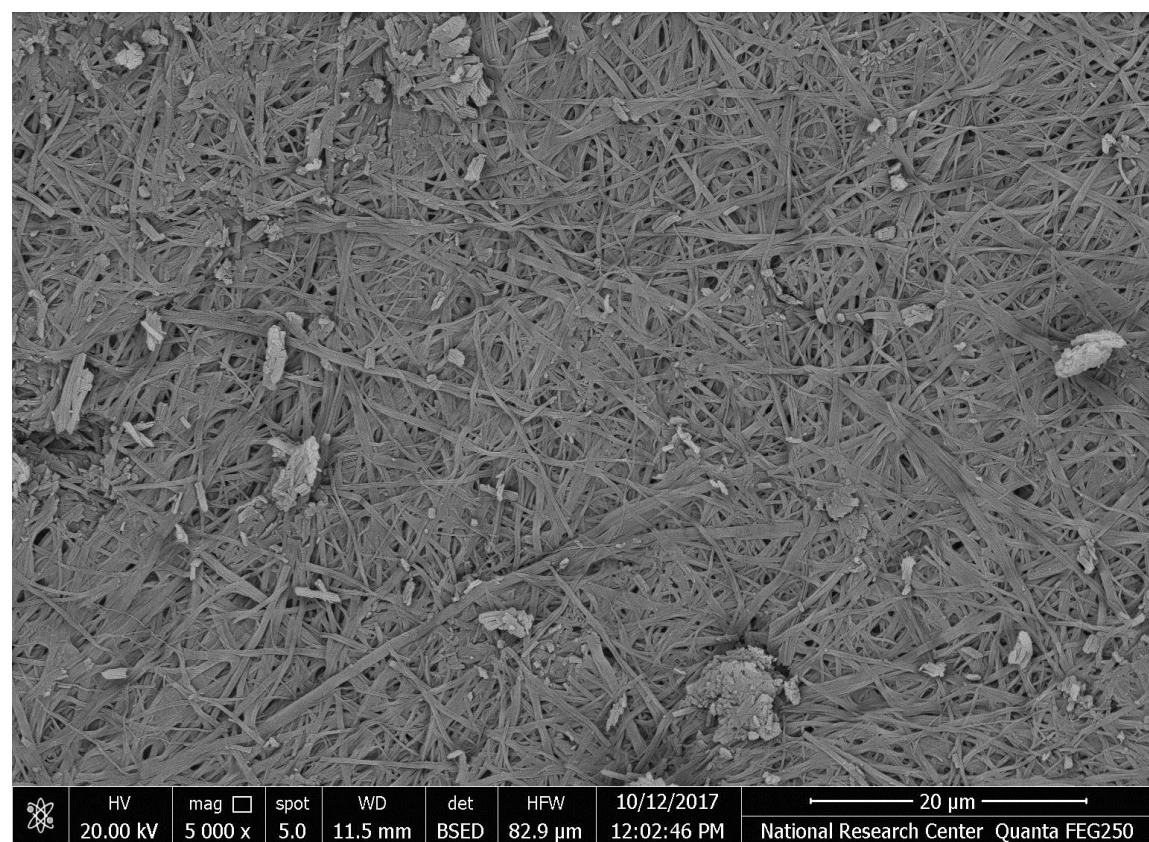
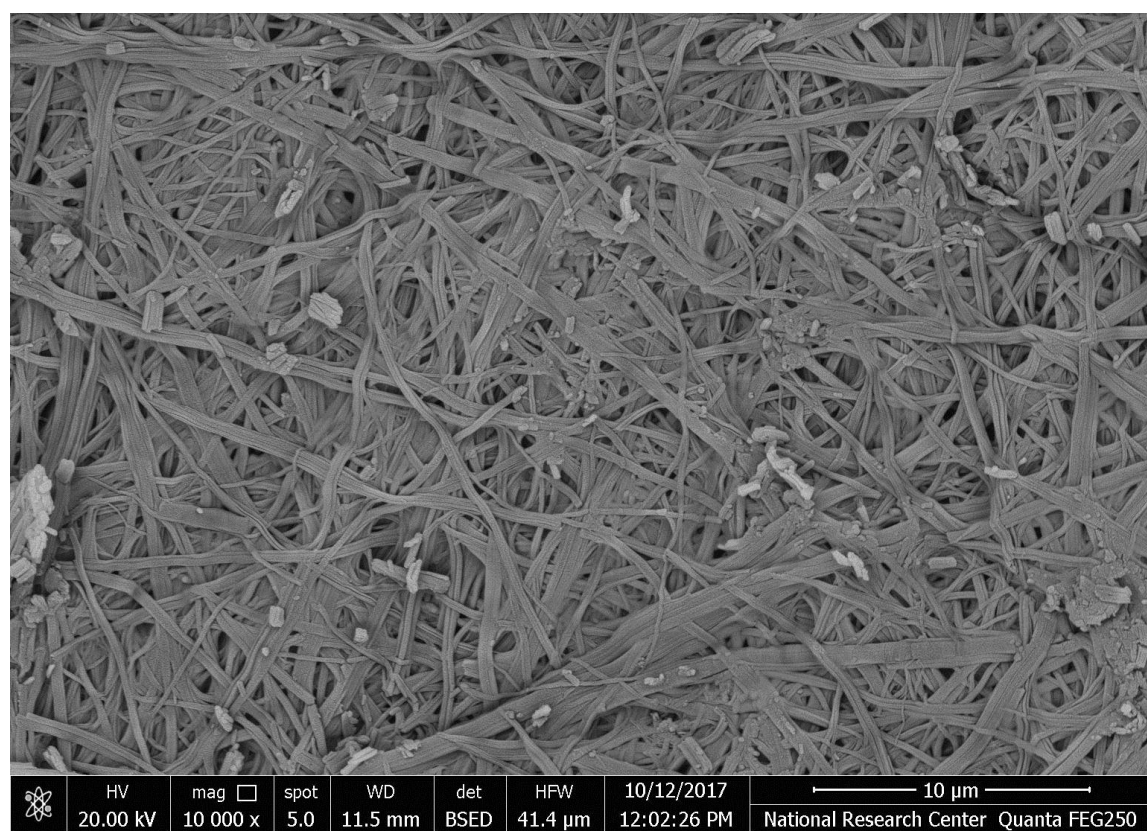
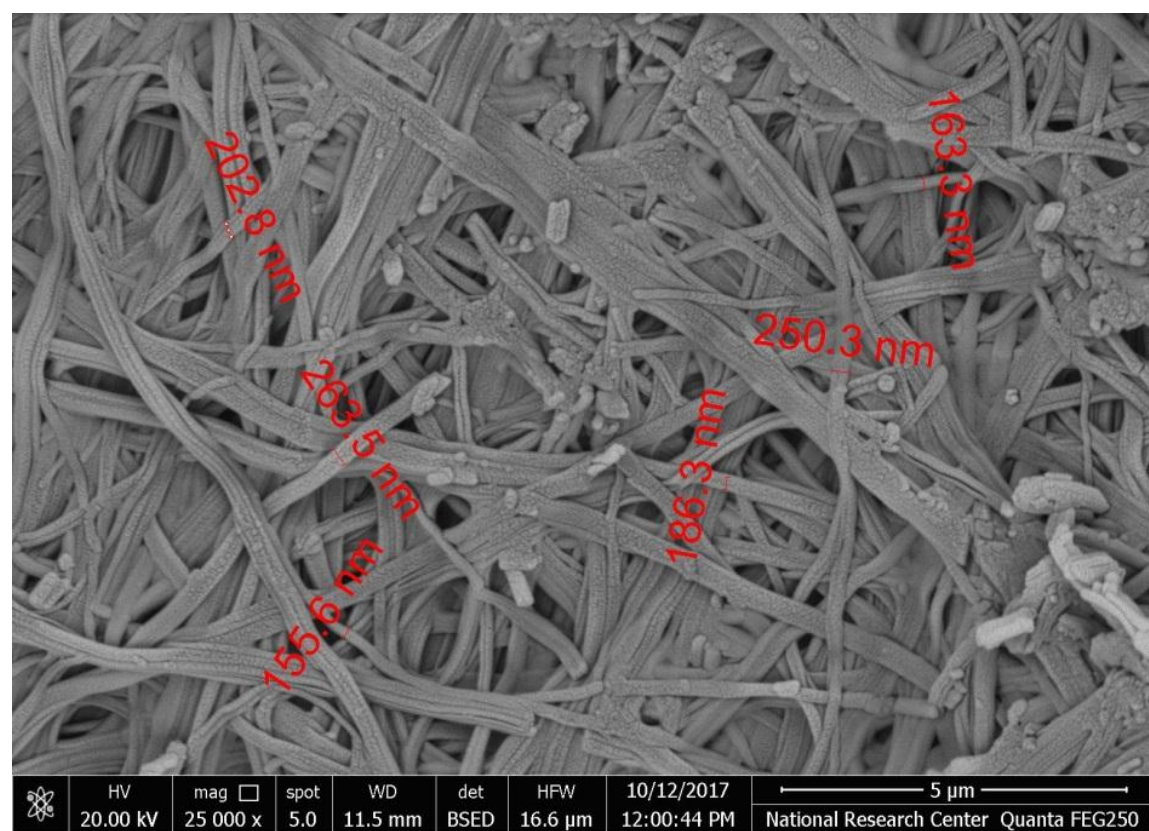
**Fig. 12.**  $^{13}\text{C}$ -NMR spectrum of **10d** ( $\text{CDCl}_3$ , 75 MHz, 298 K).



**Fig. 13.**  $^1\text{H-NMR}$  spectrum of **16** ( $\text{CDCl}_3$ , 300 MHz, 298 K).

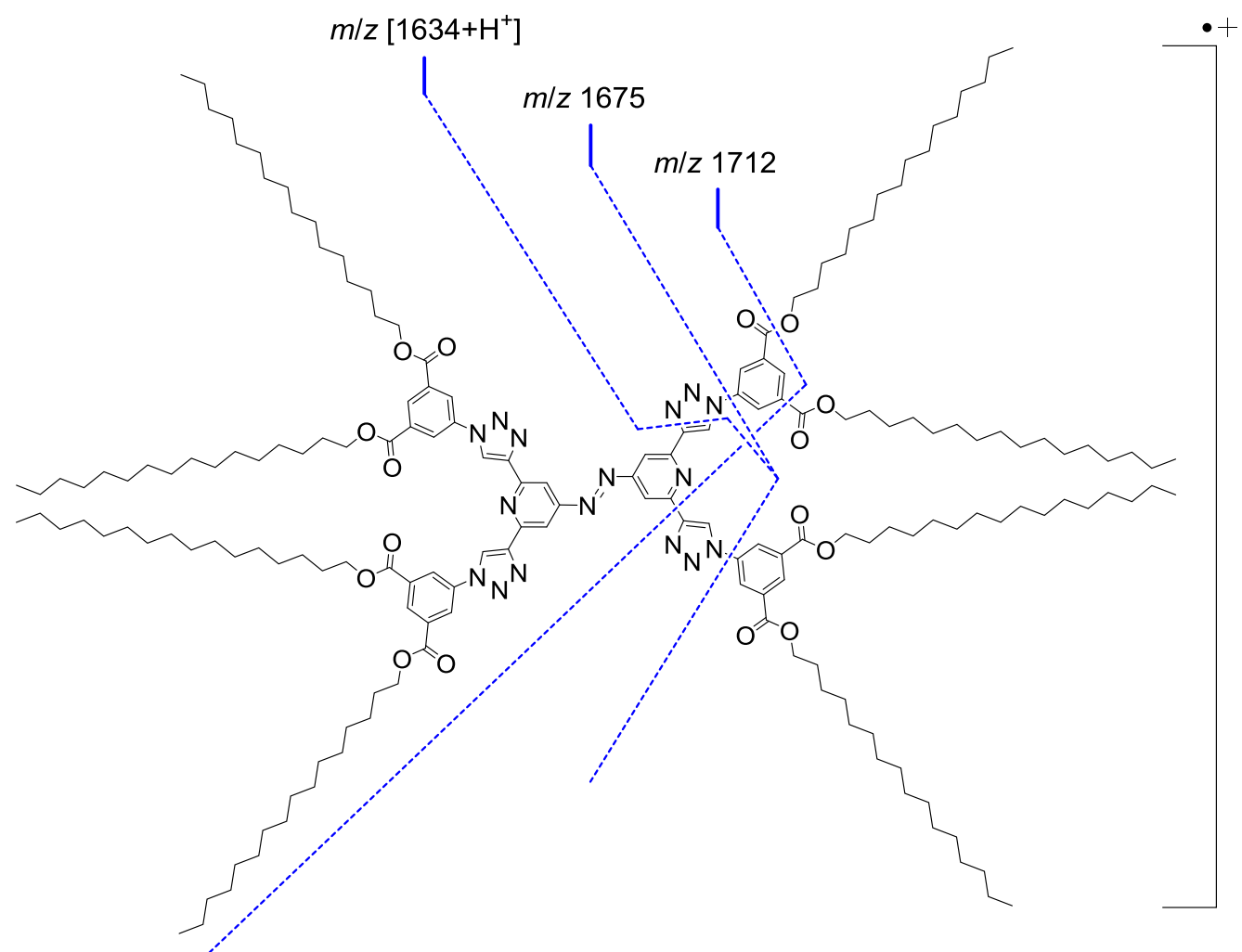


**Fig. 14.**  $^{13}\text{C}$ -NMR spectrum of **16** ( $\text{CDCl}_3$ , 75 MHz, 298 K).



**Fig. 15.** SEM and TEM images of the azodendrimer **10a**.





**Fig. 16.** Proposed fragmentation mechanism of the azodendrimer **10a**.