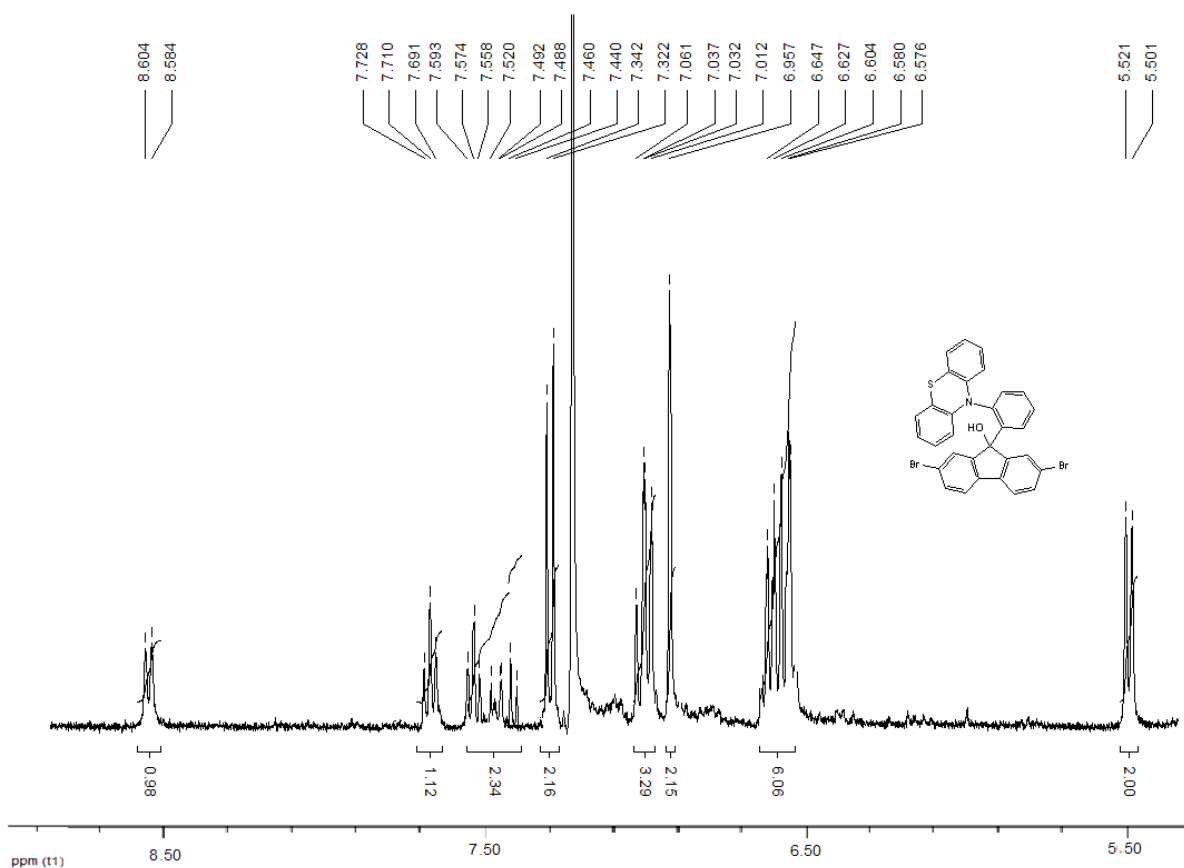


Supporting information for:

# Synthesis and characterization of a novel spirocyclic aromatic derivative: unique roles of phenothiazine

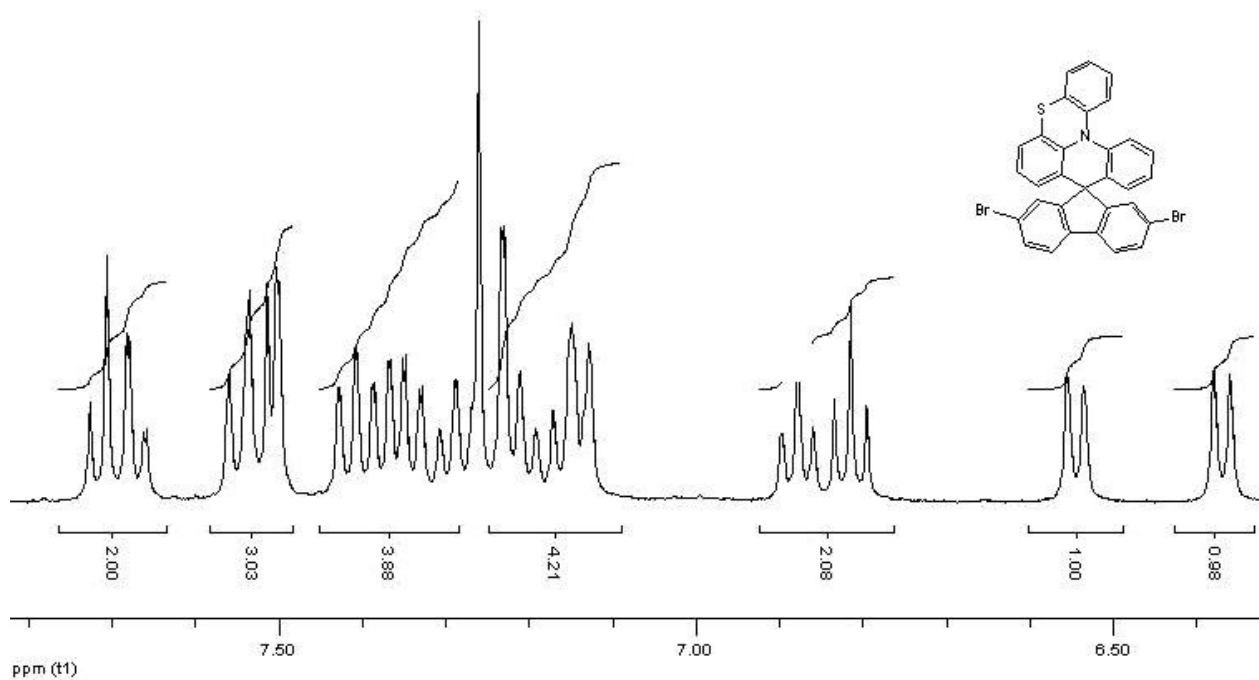
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Nanjing University of Posts and Telecommunications, Nanjing 210023, China

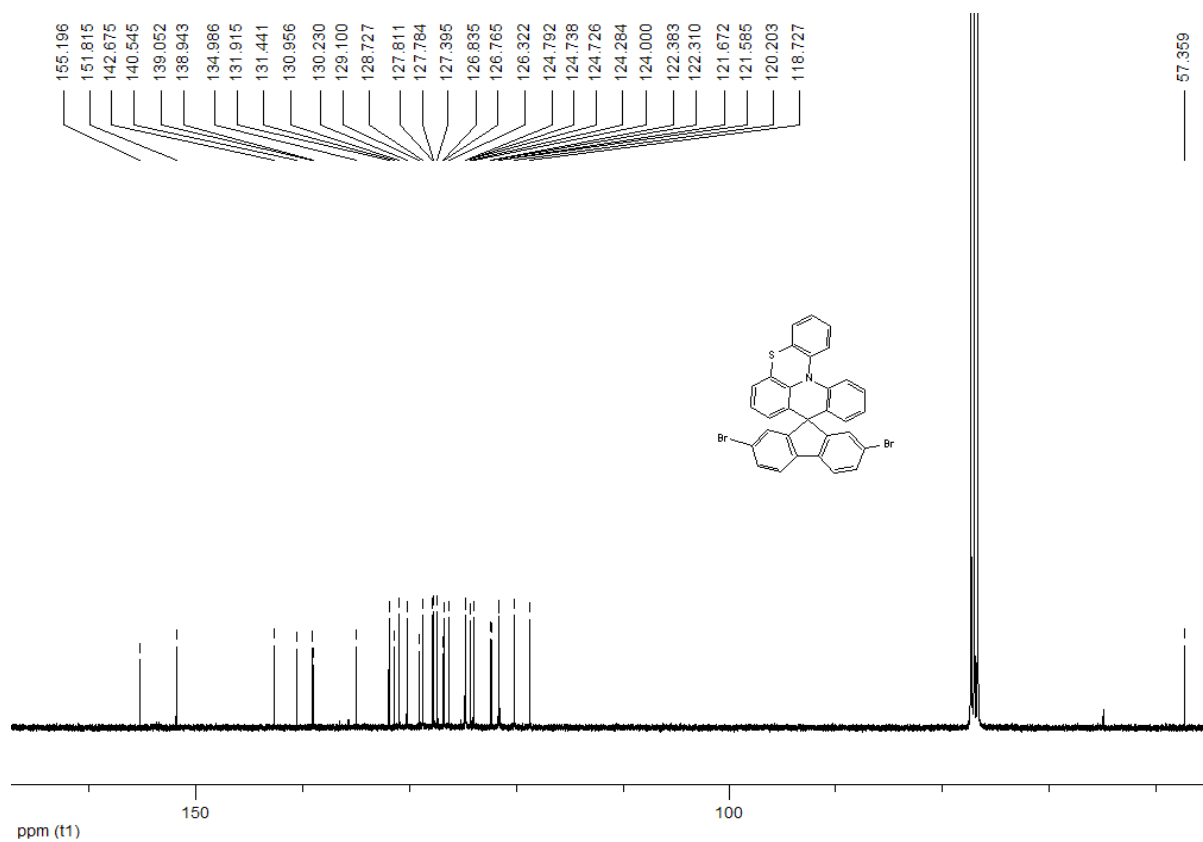


**S1.** The <sup>1</sup>H-NMR (CDCl<sub>3</sub>, 400 MHz, ppm) shift spectra of compound **SPOH**.

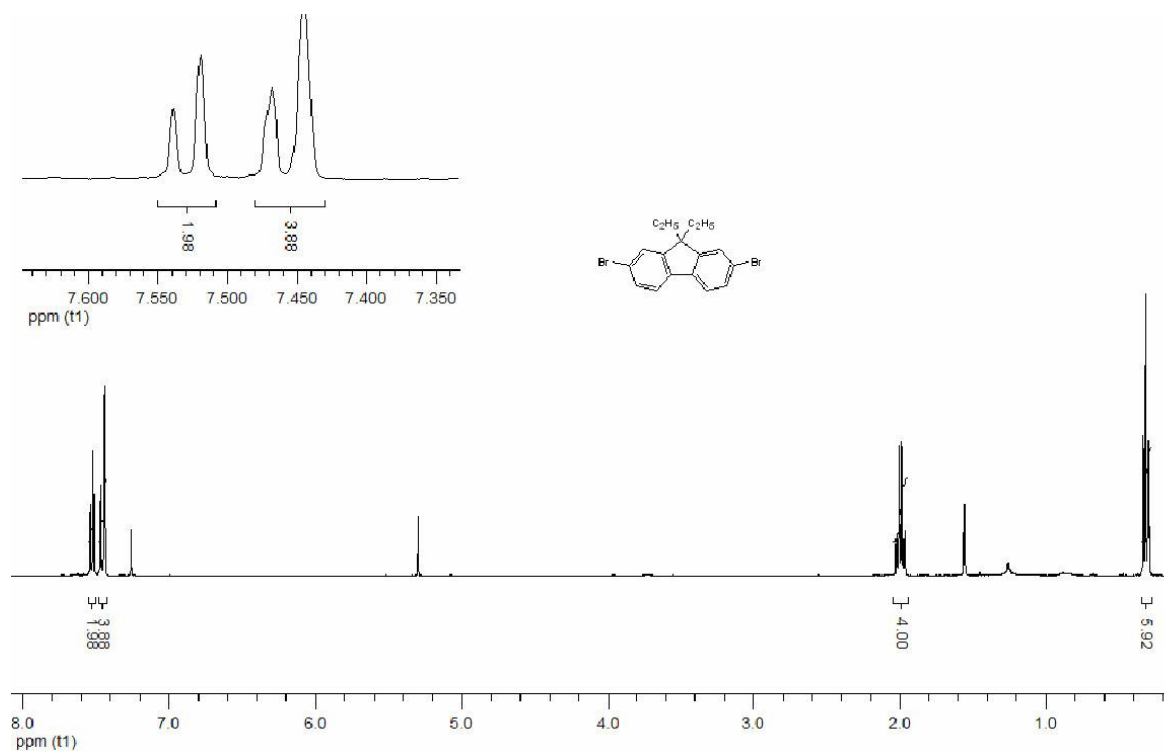
\* Corresponding author: H.J. Jiang(iamhjjiang@njupt.edu.cn)



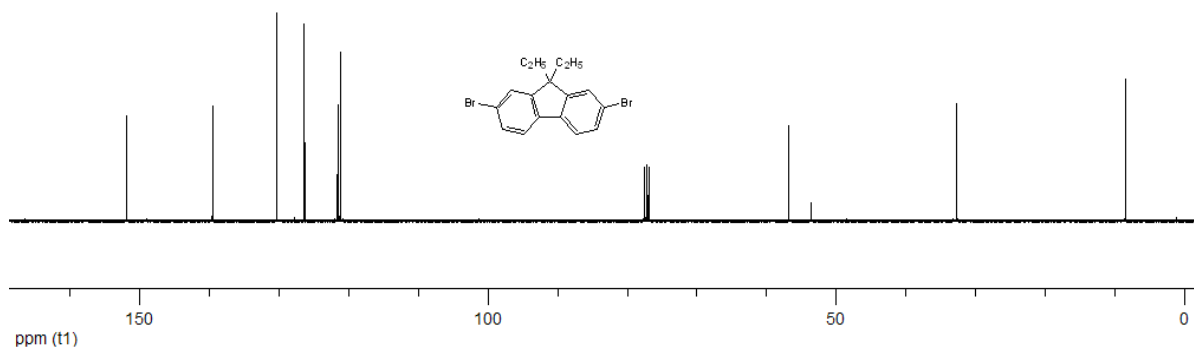
**S2.** The  $^1\text{H-NMR}$  ( $\text{CDCl}_3$ , 400 MHz, ppm) shift spectra of compound **SPIS**.



**S3.** The  $^{13}\text{C-NMR}$  ( $\text{CDCl}_3$ , 100 MHz, ppm) shift spectra of compound **SPIS**.



**S4.** The  $^1\text{H-NMR}$  ( $\text{CDCl}_3$ , 400 MHz, ppm) shift spectra of compound **2BrC<sub>2</sub>F**



**S5.** The  $^{13}\text{C-NMR}$  ( $\text{CDCl}_3$ , 100 MHz, ppm) shift spectra of compound **2BrC<sub>2</sub>F**

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Comment 1

Comment 2

