

Supplementary Materials

Synthesis and electroluminescence properties of 3-(trifluoromethyl)phenyl-substituted 9,10-diarylanthracene derivatives for blue organic light-emitting diodes

Sang Woo Kwak ¹†, Kang Mun Lee ²†, Ji-Eun Lee ¹, Jisu Yoo ³, Yeonjin Yi ³, Hyoshik Kwon ⁴, Hyunbok Lee ^{5,*}, Myung Hwan Park ^{4,*} and Yongseog Chung ^{1,*}

¹ Department of Chemistry, Chungbuk National University, Cheongju, Chungbuk 28644, Republic of Korea; yschung@chungbuk.ac.kr; sangwoo814@hanmail.net; 01064342274@hanmail.net

² Department of Chemistry, Institute for Molecular Science and Fusion Technology, Kangwon National University, Chuncheon, Gangwon 24341, Republic of Korea; kangmunlee@kangwon.ac.kr

³ Institute of Physics and Applied Physics, Yonsei University, Seoul 03722, Republic of Korea; gotsson@naver.com; yeonjin@yonsei.ac.kr

⁴ Department of Chemistry Education, Chungbuk National University, Cheongju, Chungbuk 28644, Republic of Korea; hskwon@chungbuk.ac.kr; mhpark98@chungbuk.ac.kr

⁵ Department of Physics, Kangwon National University, Chuncheon, Gangwon 24341, Republic of Korea; hyunbok@kangwon.ac.kr

NMR Spectra for 1-3

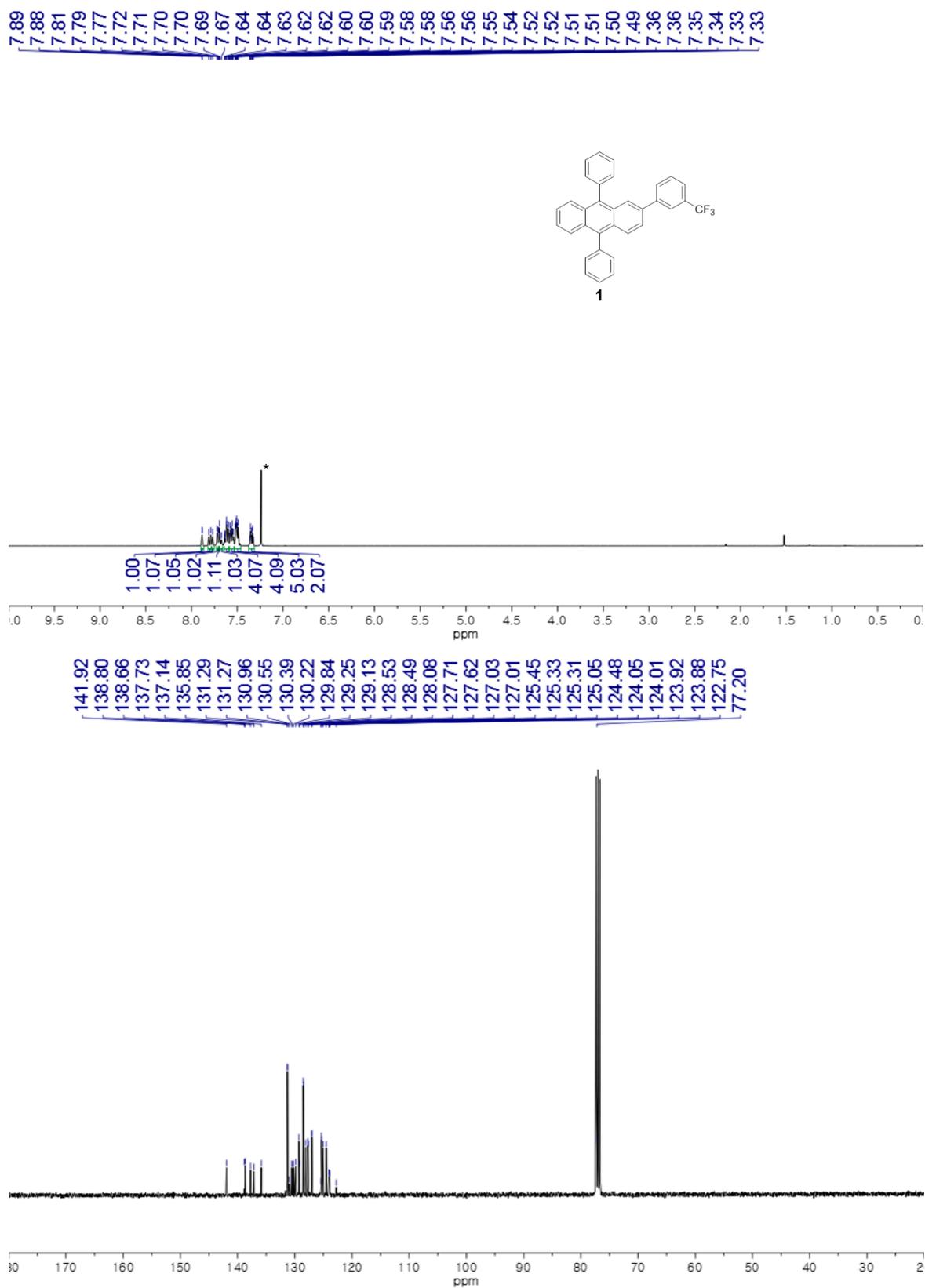


Figure S1. ¹H (top) and ¹³C (bottom) NMR spectra of 1 in CDCl₃ (* from residual CHCl₃ in CDCl₃).

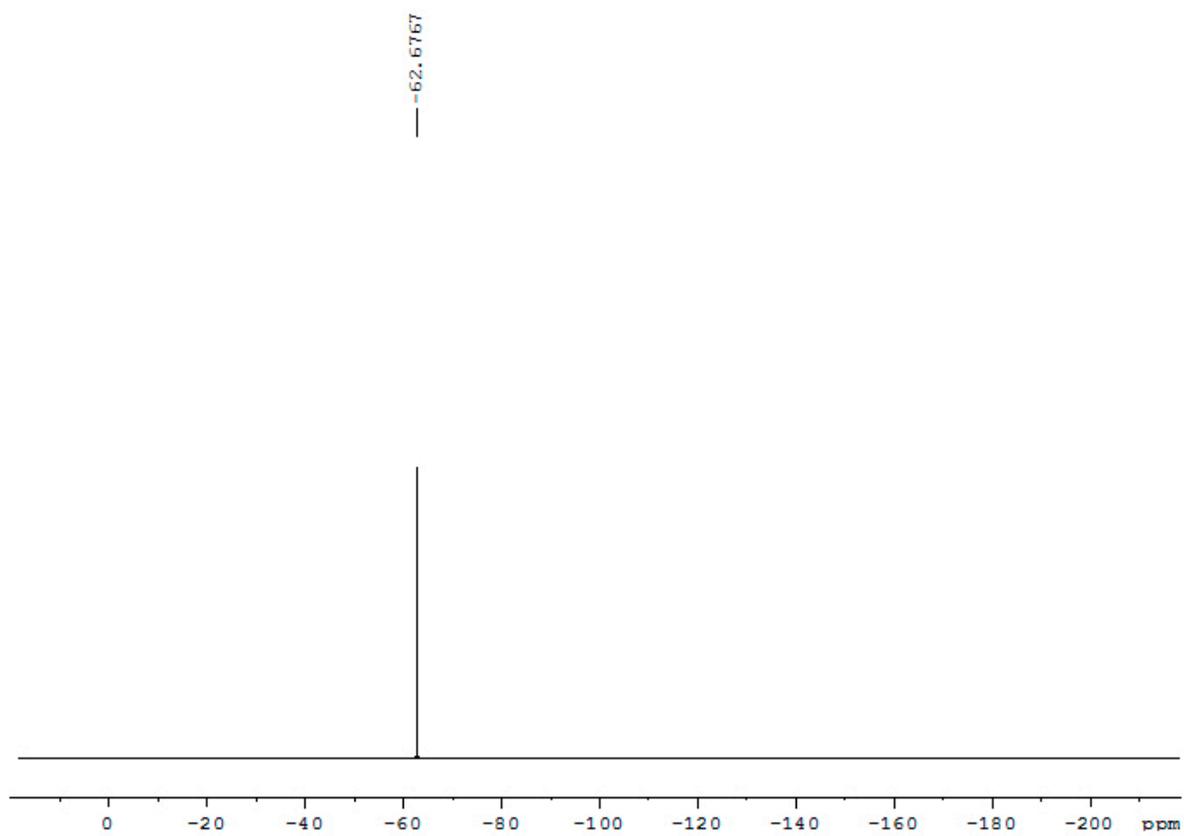


Figure S2. ^{19}F NMR spectrum of **1** in CDCl_3 .

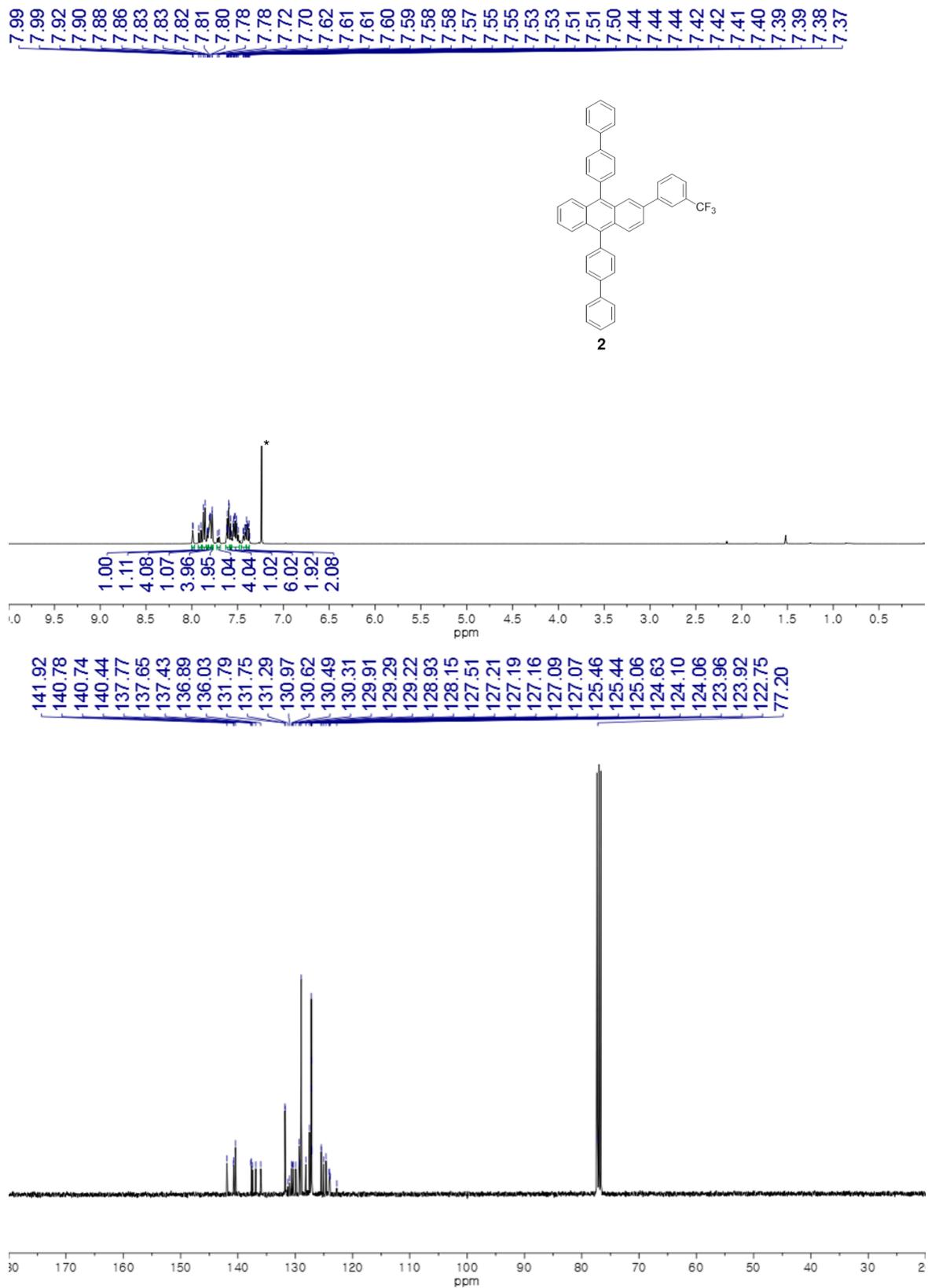


Figure S3. ¹H (top) and ¹³C (bottom) NMR spectra of **2** in CDCl₃ (* from residual CHCl₃ in CDCl₃).

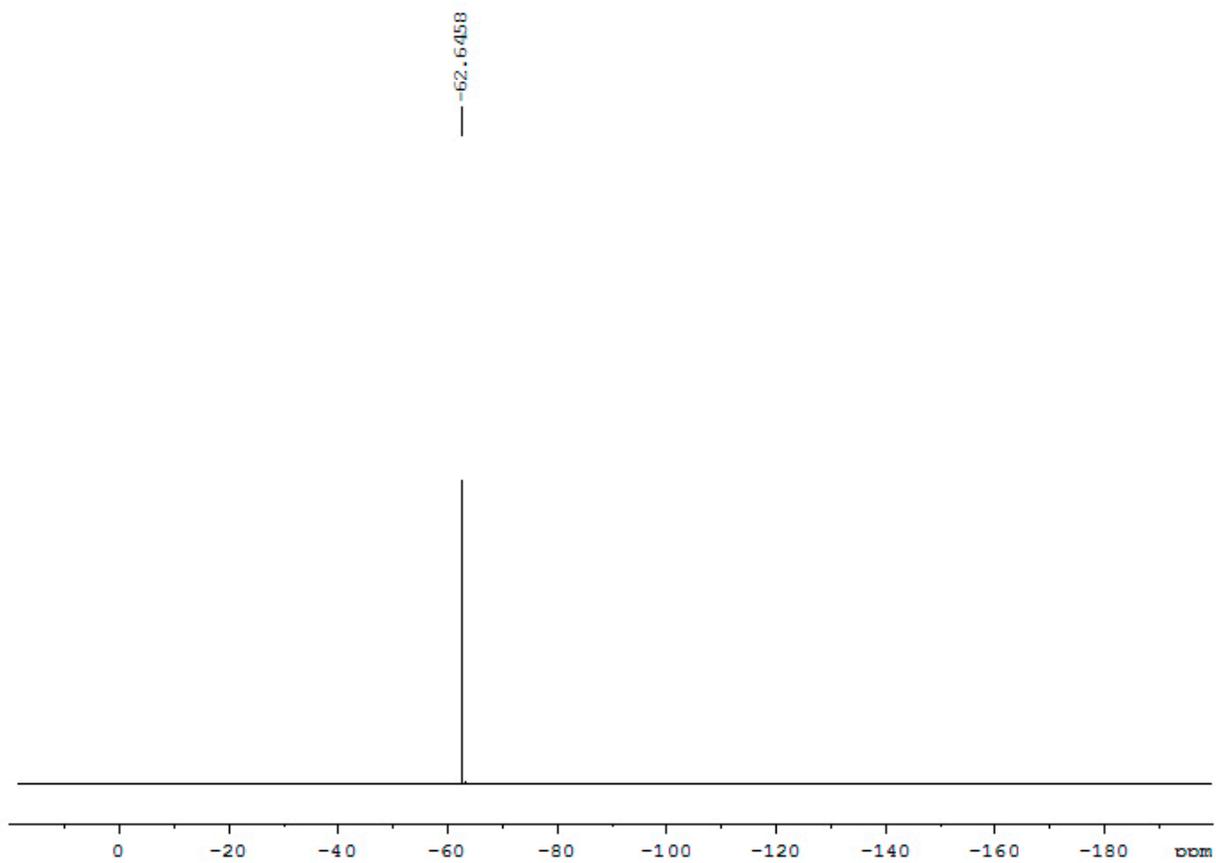


Figure S4. ^{19}F NMR spectrum of **2** in CDCl_3 .

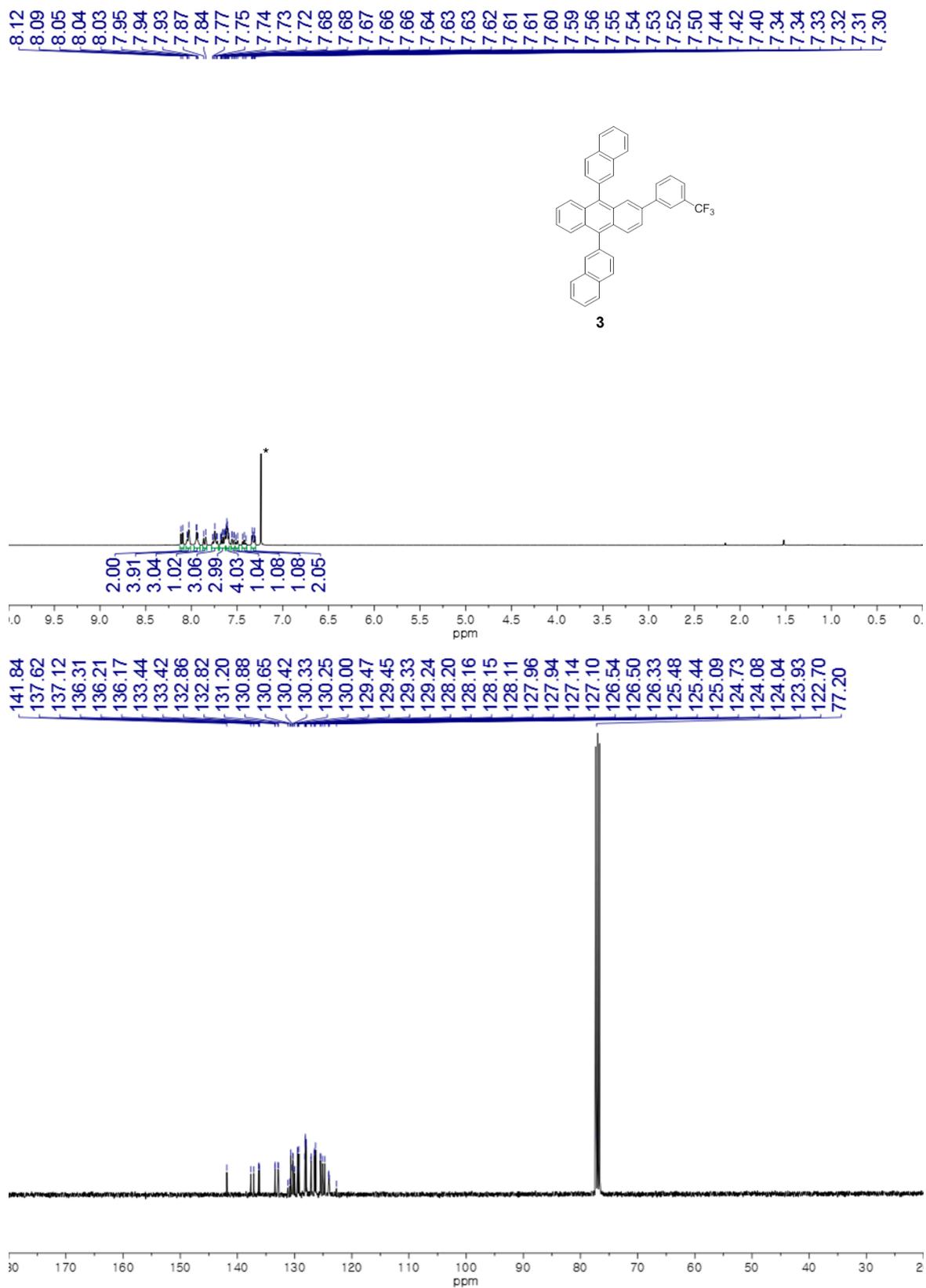


Figure S5. ¹H (top) and ¹³C (bottom) NMR spectra of **3** in CDCl₃ (* from residual CHCl₃ in CDCl₃).

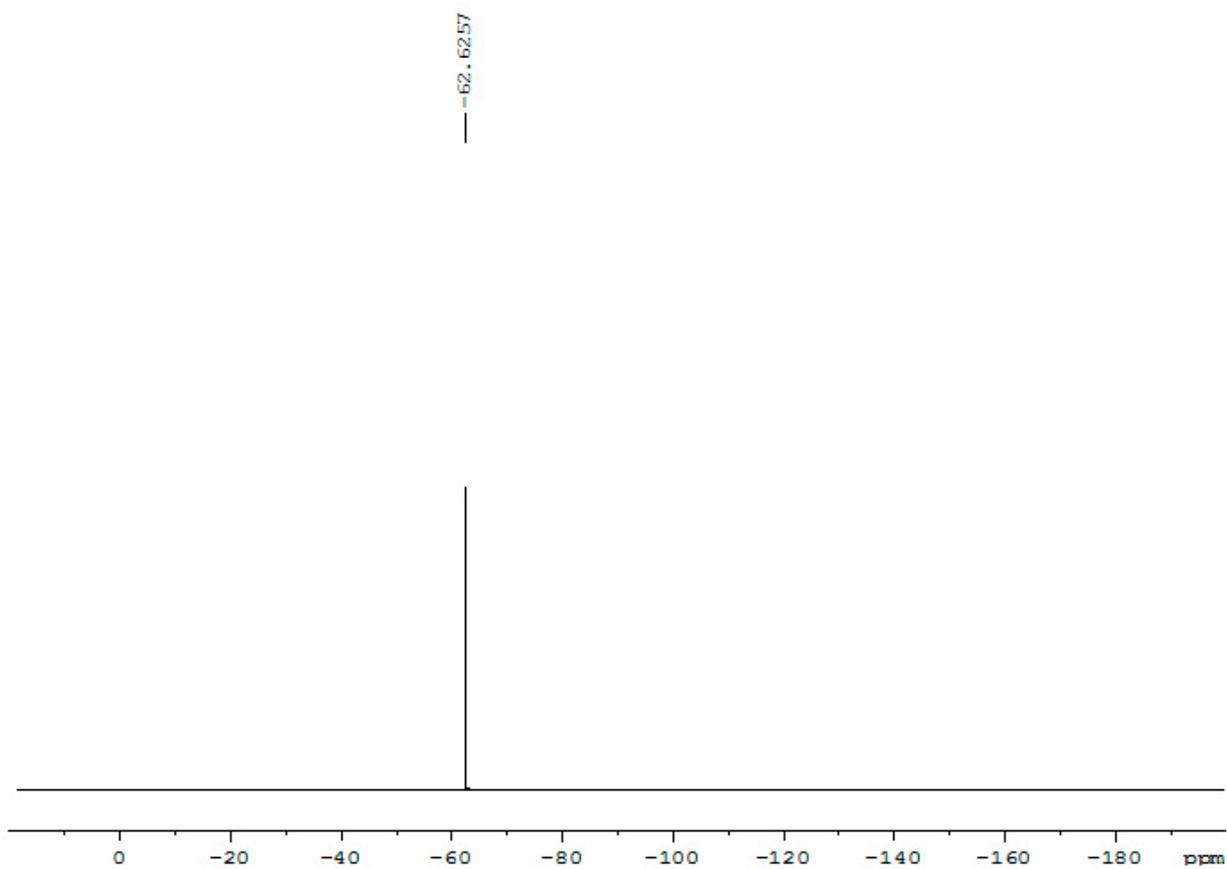


Figure S6. ^{19}F NMR spectrum of **3** in CDCl_3 .