

Supporting Information

Transition metal-free one pot synthesis of substituted pyrroles by employing aza-Wittig reaction

Chetna Jadala,^a Budaganaboyina Prasad,^b A.V.G. Prashanti,^b Nagula Shankaraiah,^{a*} Ahmed Kamal^{b,c*}

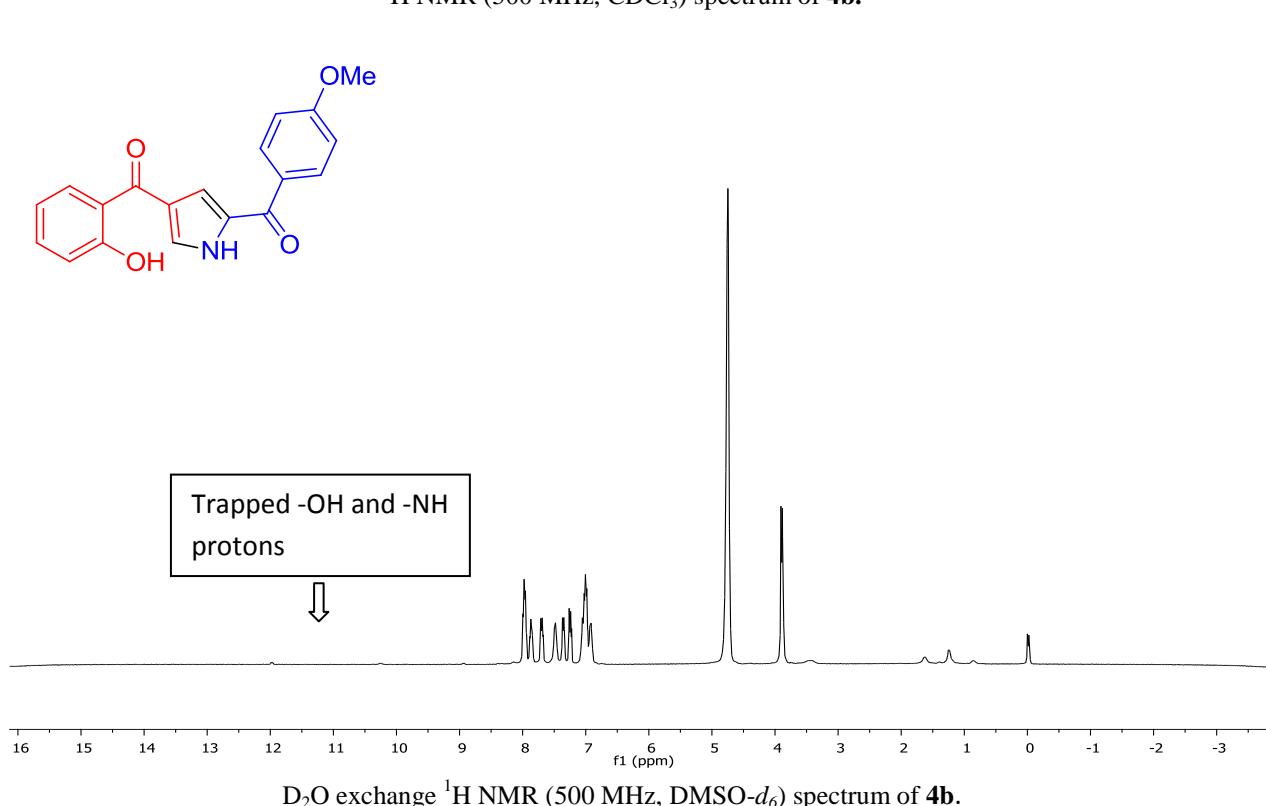
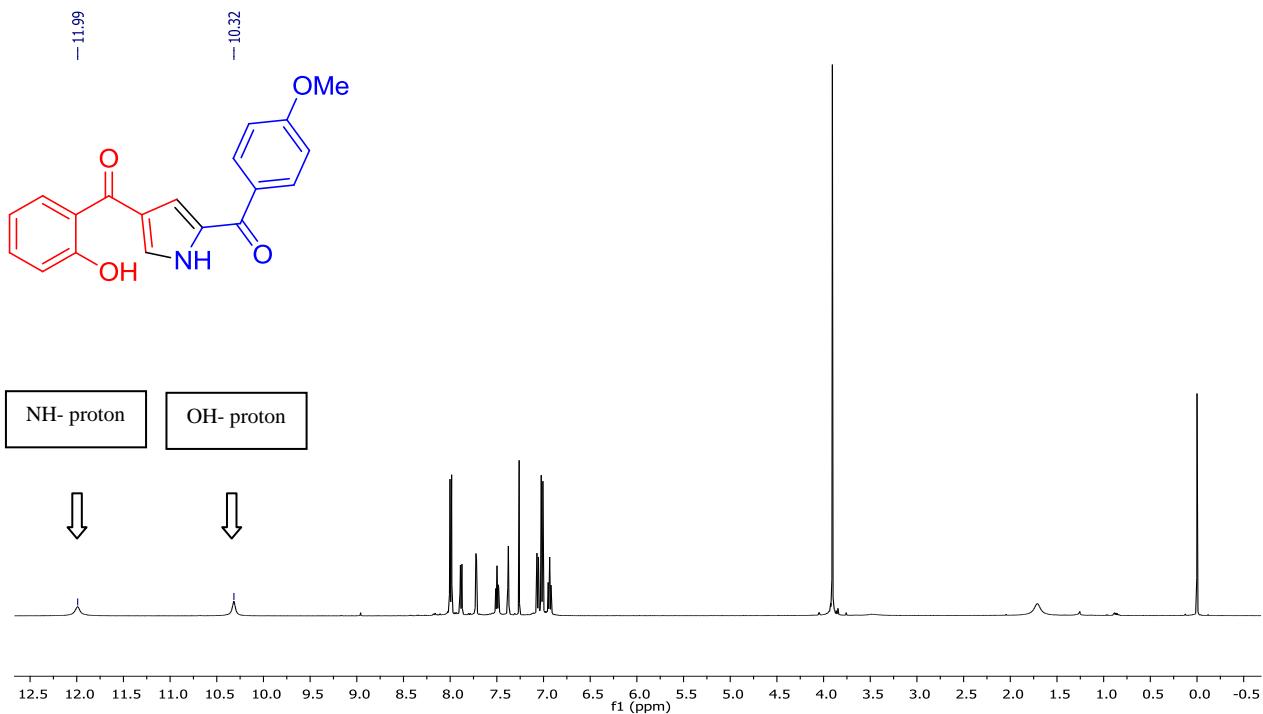
^a*Department of Medicinal Chemistry, National Institute of Pharmaceutical Education and Research (NIPER), Hyderabad 500037, India*

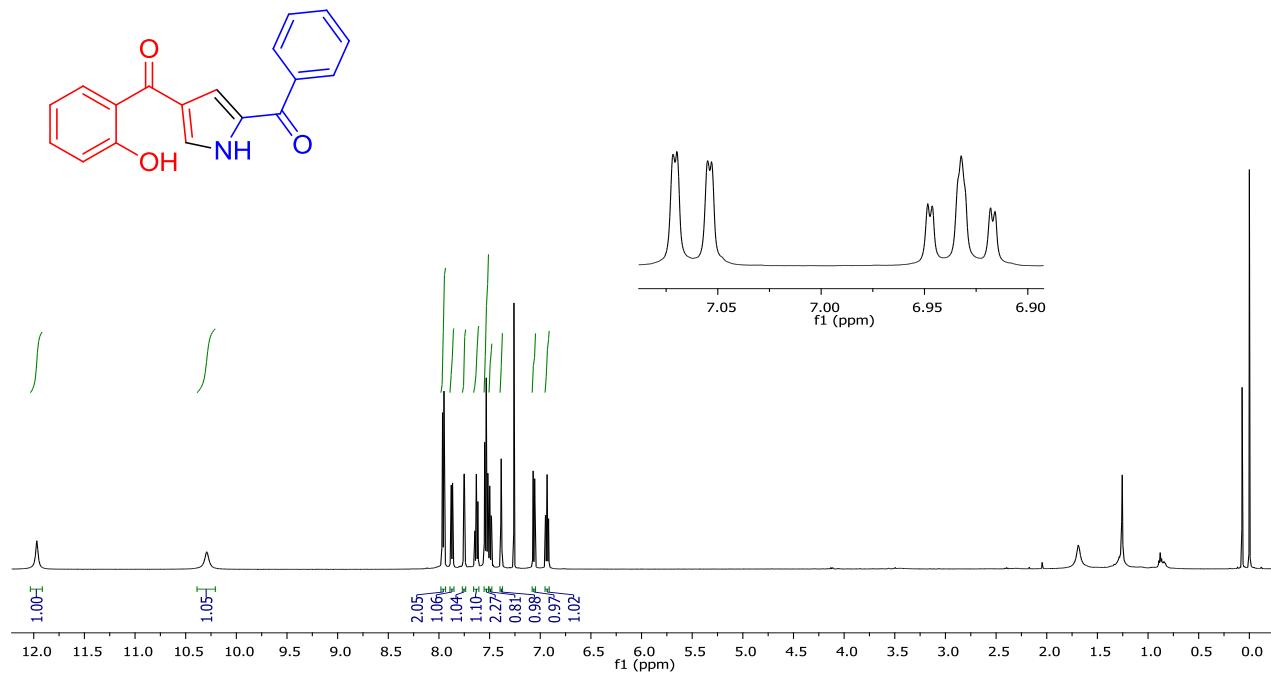
^b*Medicinal Chemistry & Pharmacology, CSIR-Indian Institute of Chemical Technology, Hyderabad 500007, India*

^c*School of Pharmaceutical Education and Research (SPER), Jamia Hamdard, New Delhi, 110062, India*

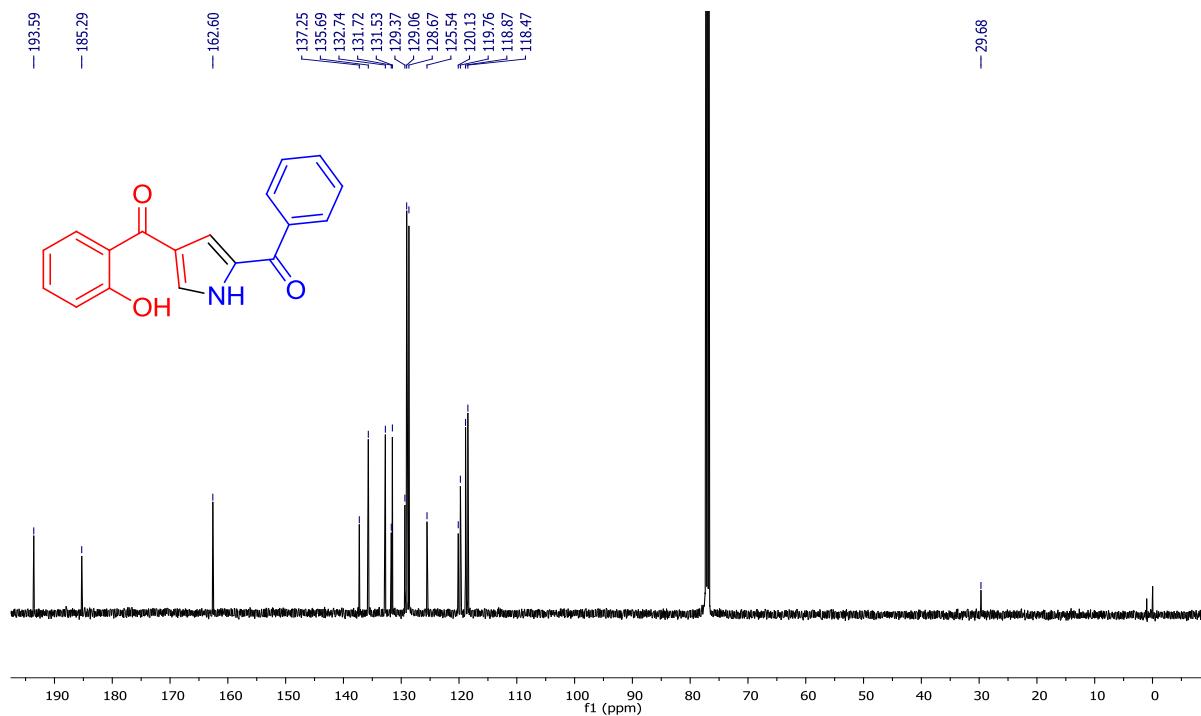
Contents	Page No
----------	---------

¹ H NMR and ¹³ C NMR spectra	2-25
--	------

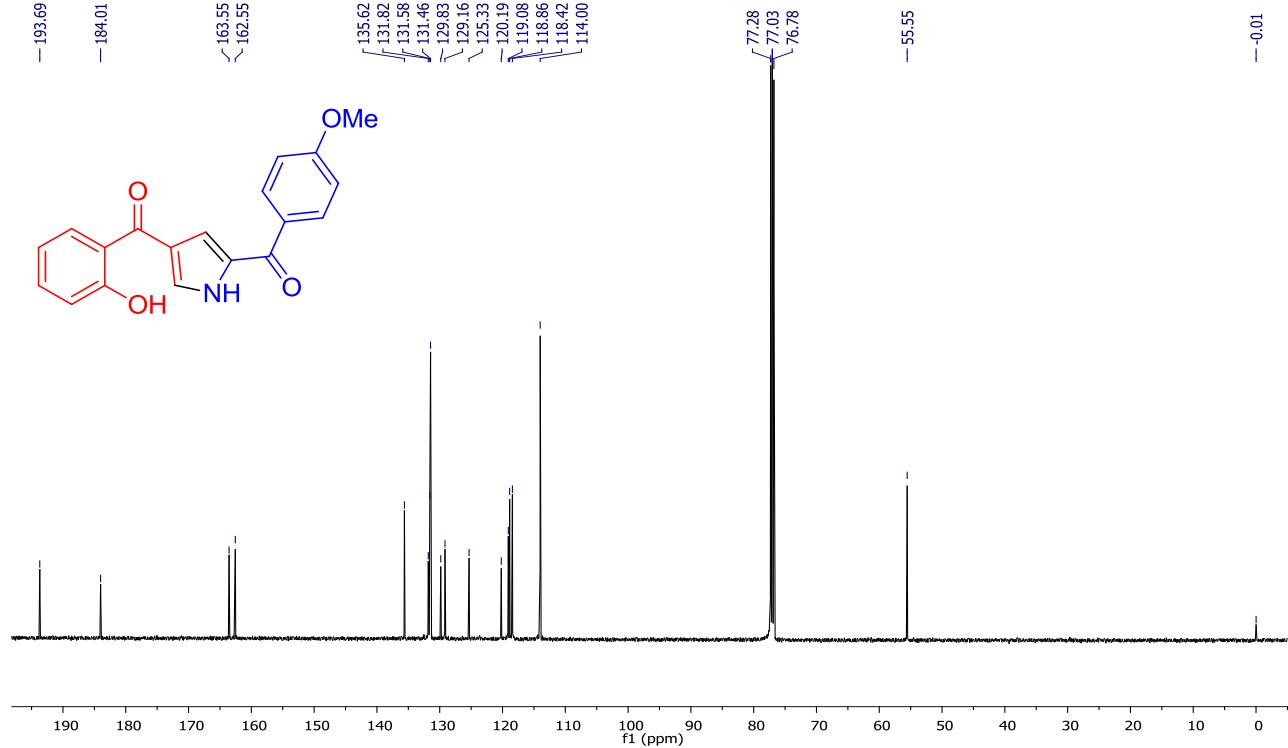
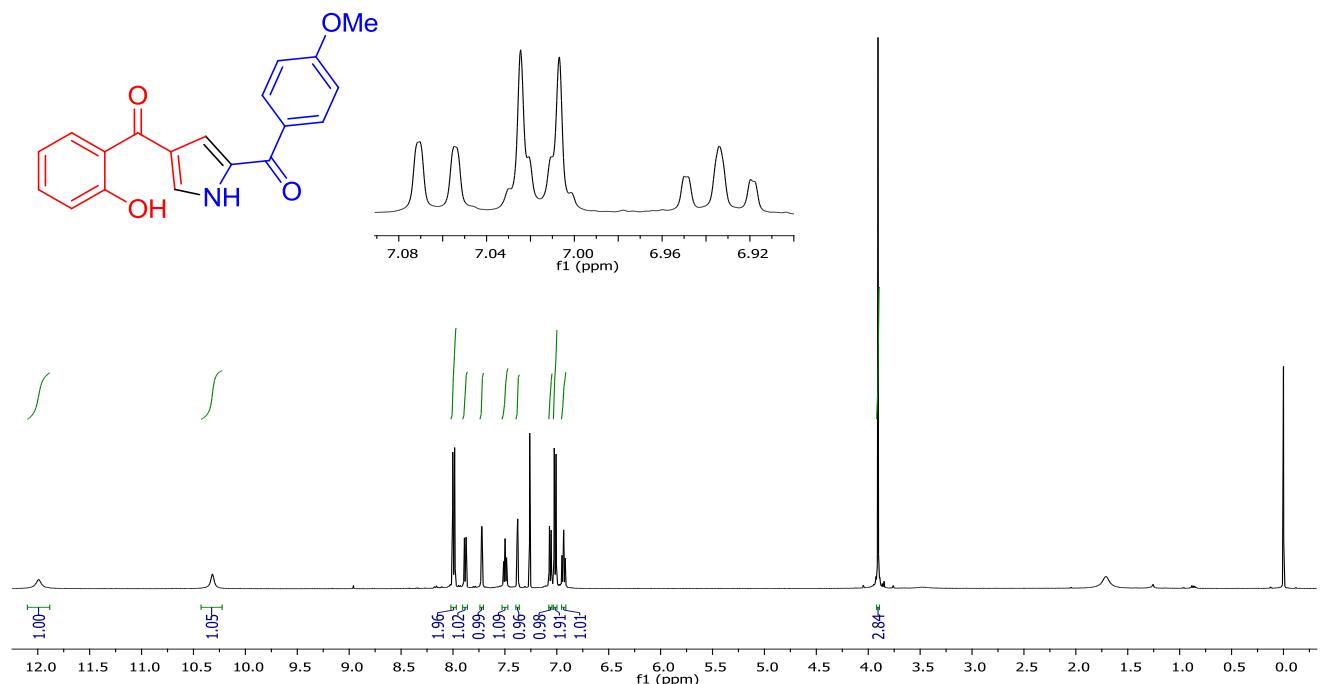


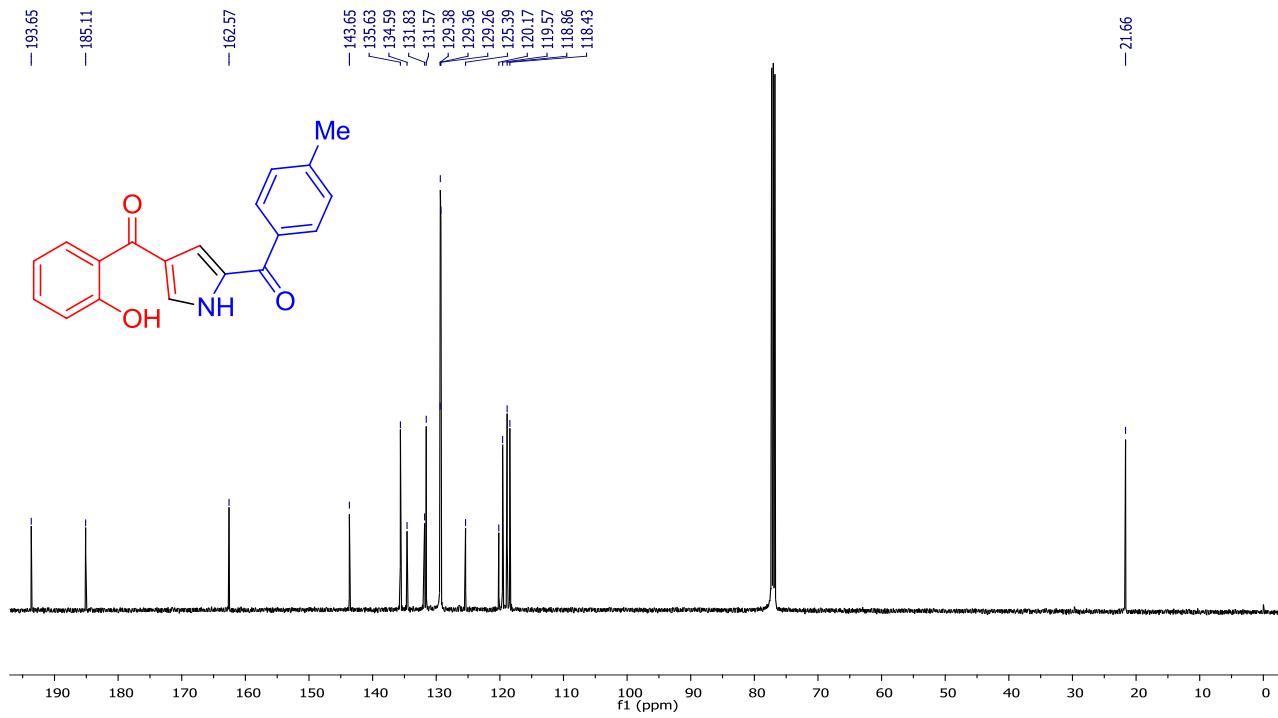
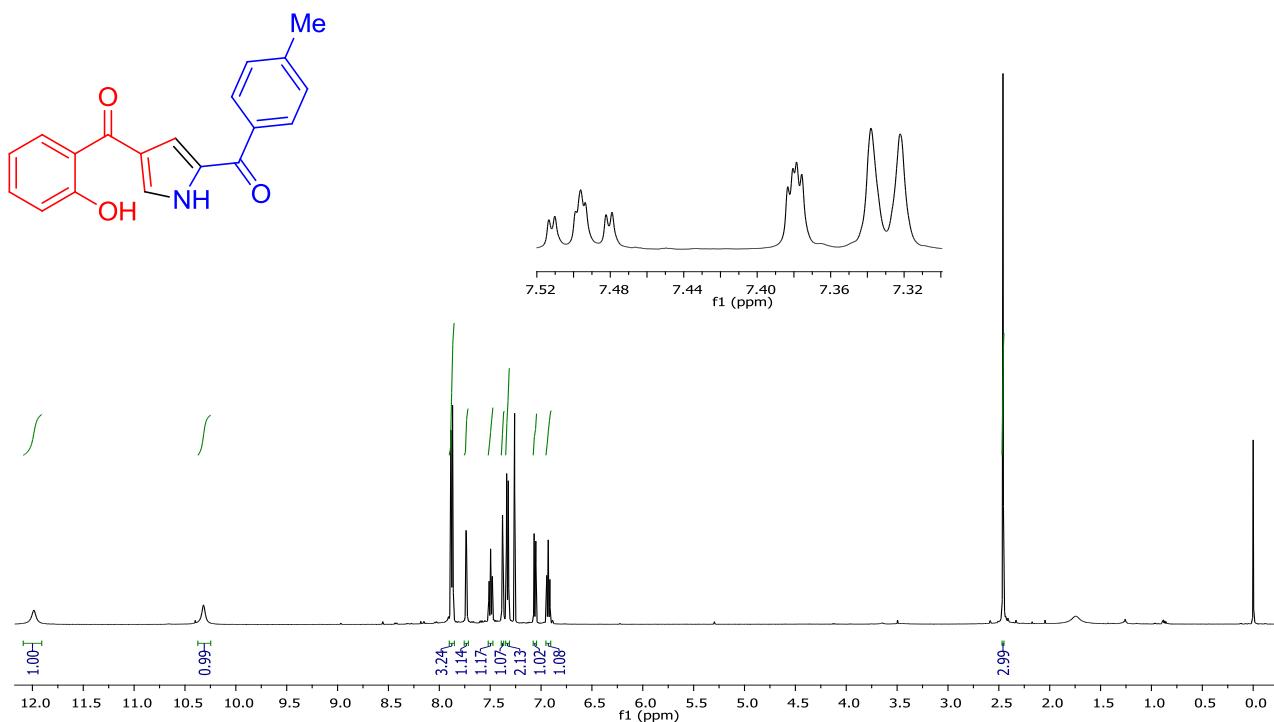


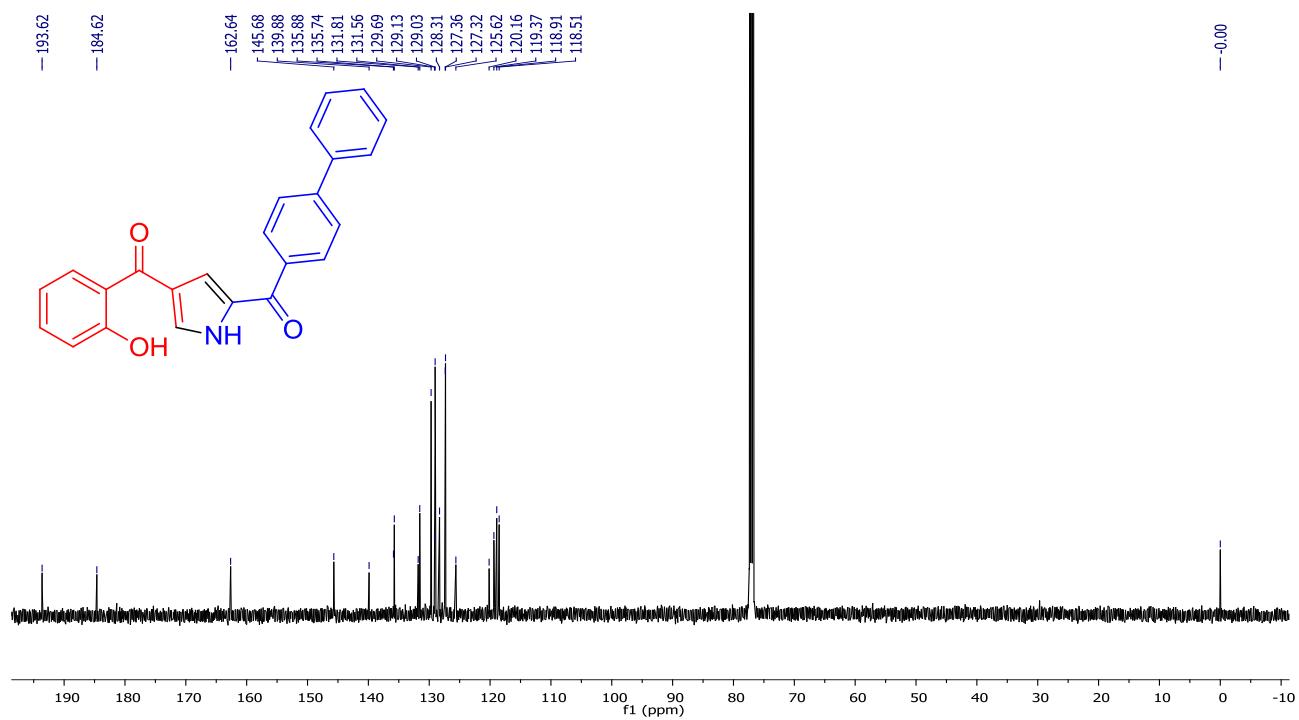
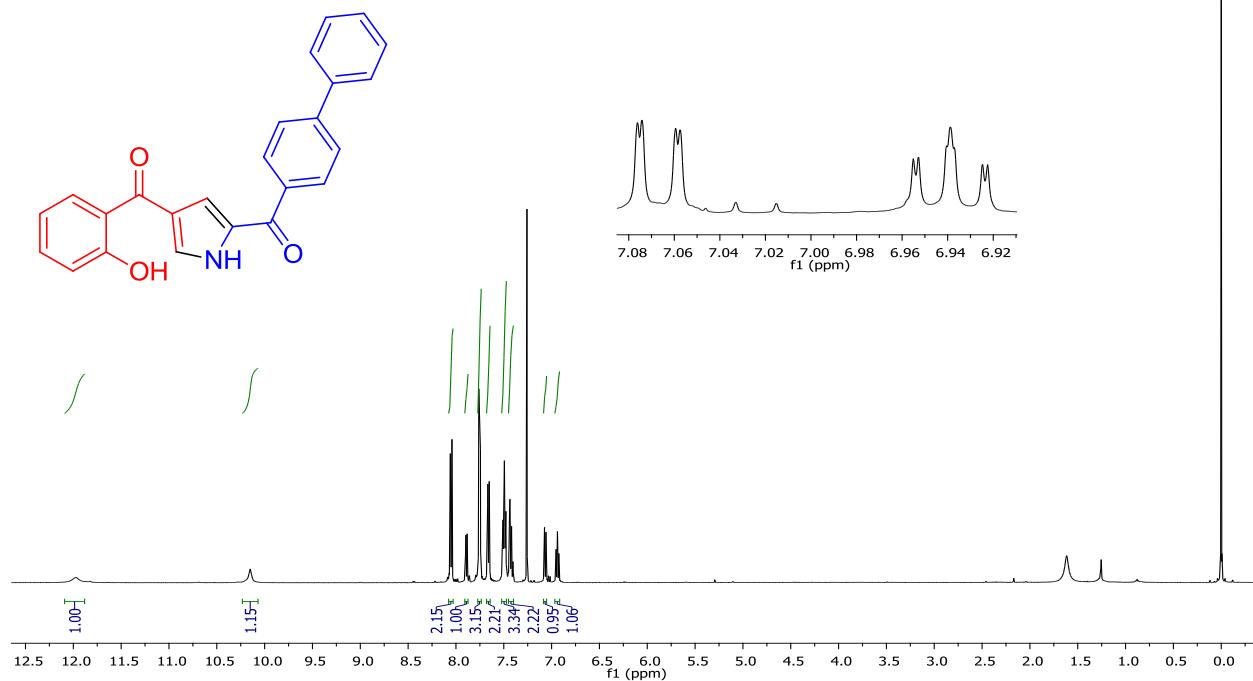
^1H NMR (500 MHz, CDCl_3) spectrum of **4a**.

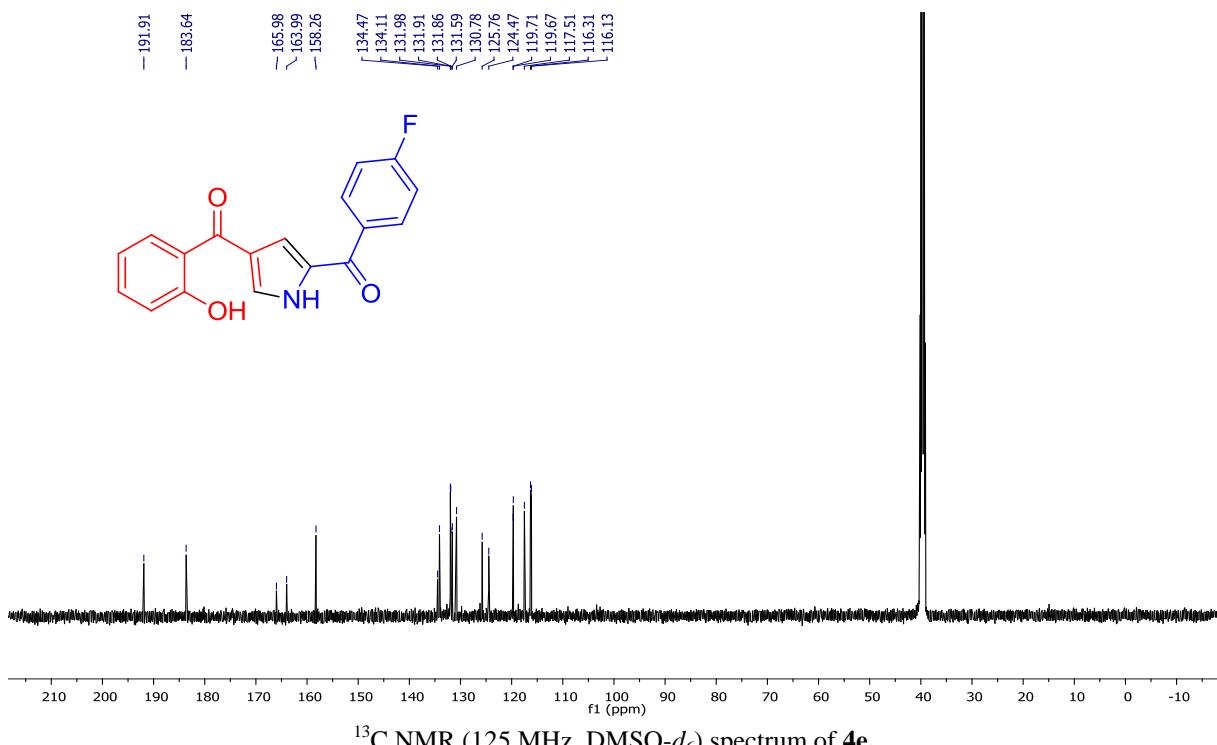
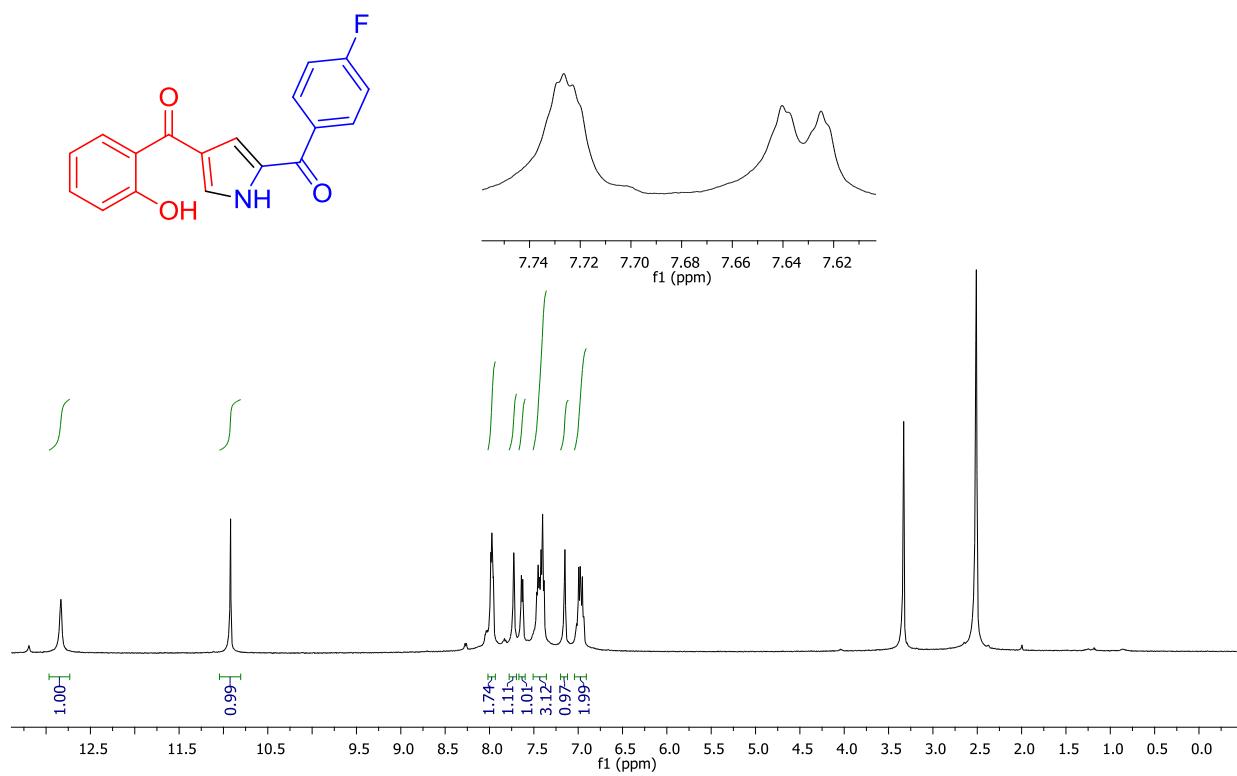


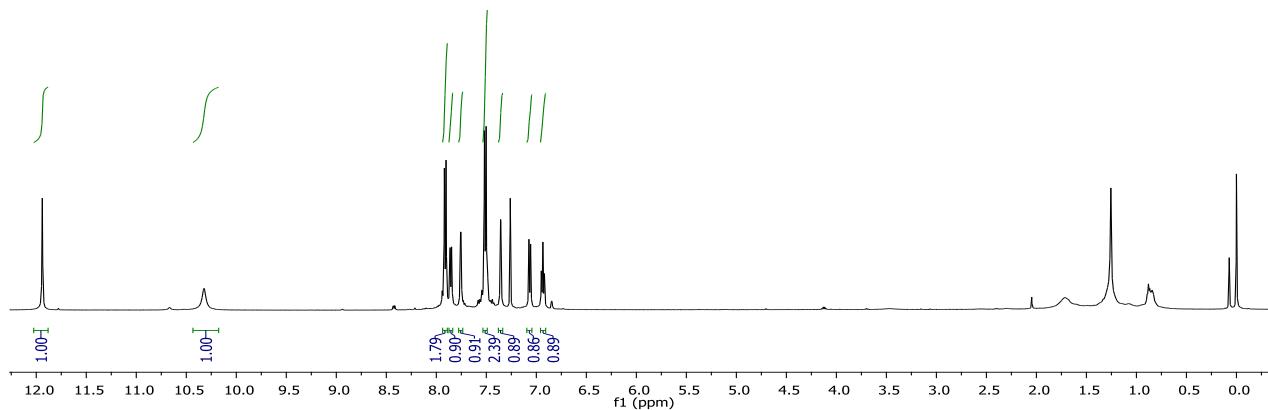
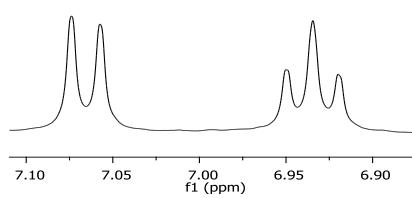
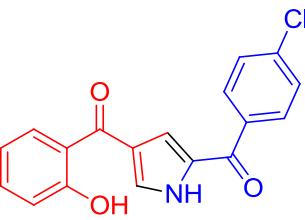
^{13}C NMR (125 MHz, CDCl_3) spectrum of **4a**.



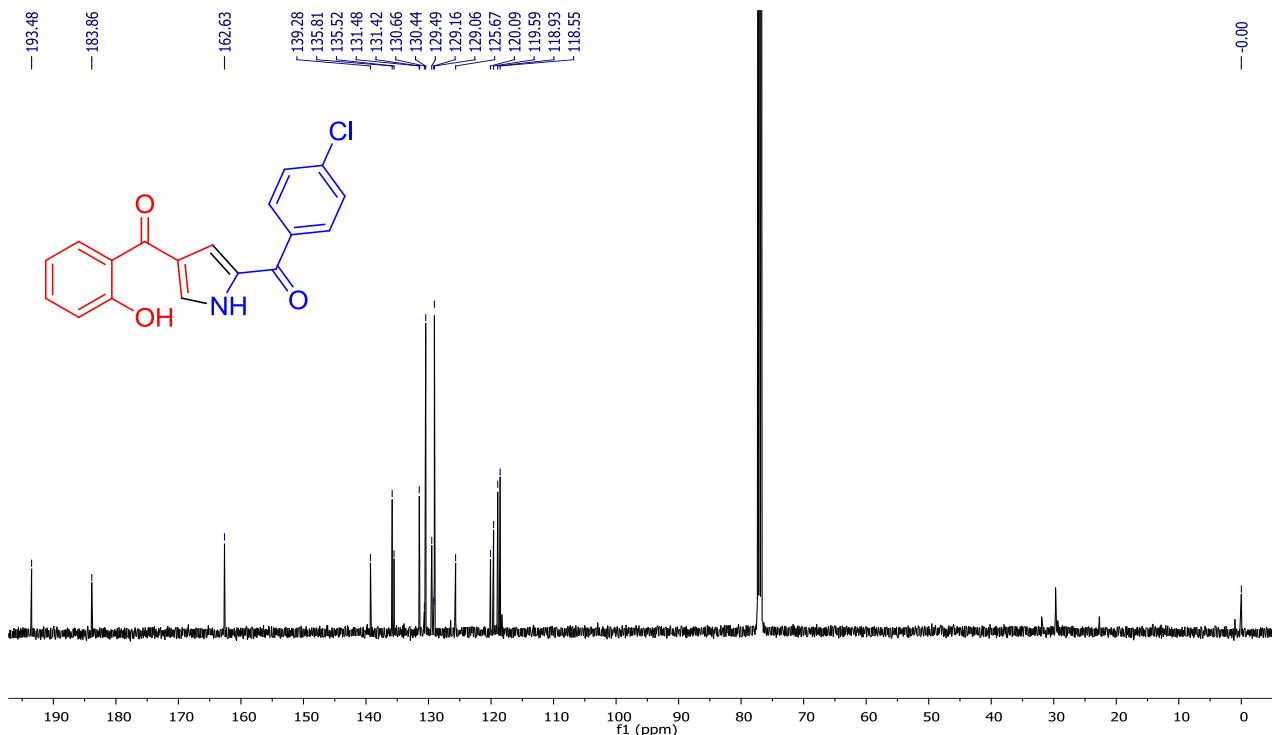




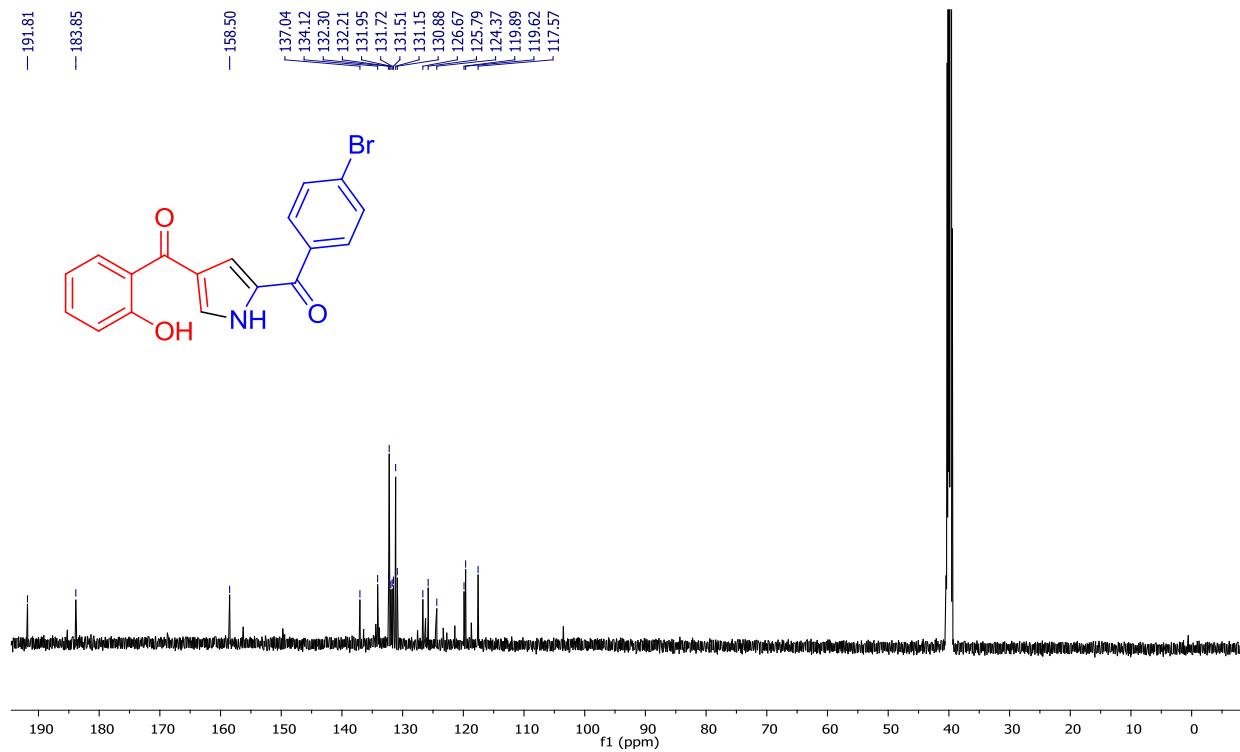
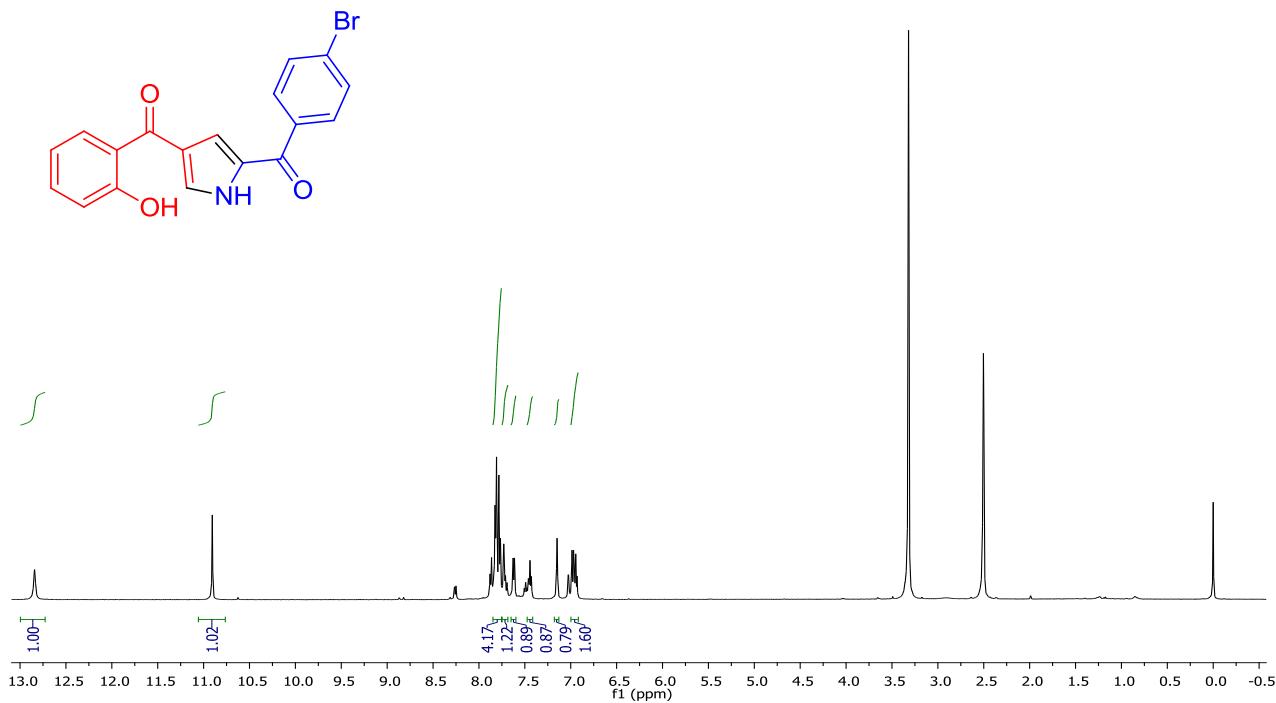


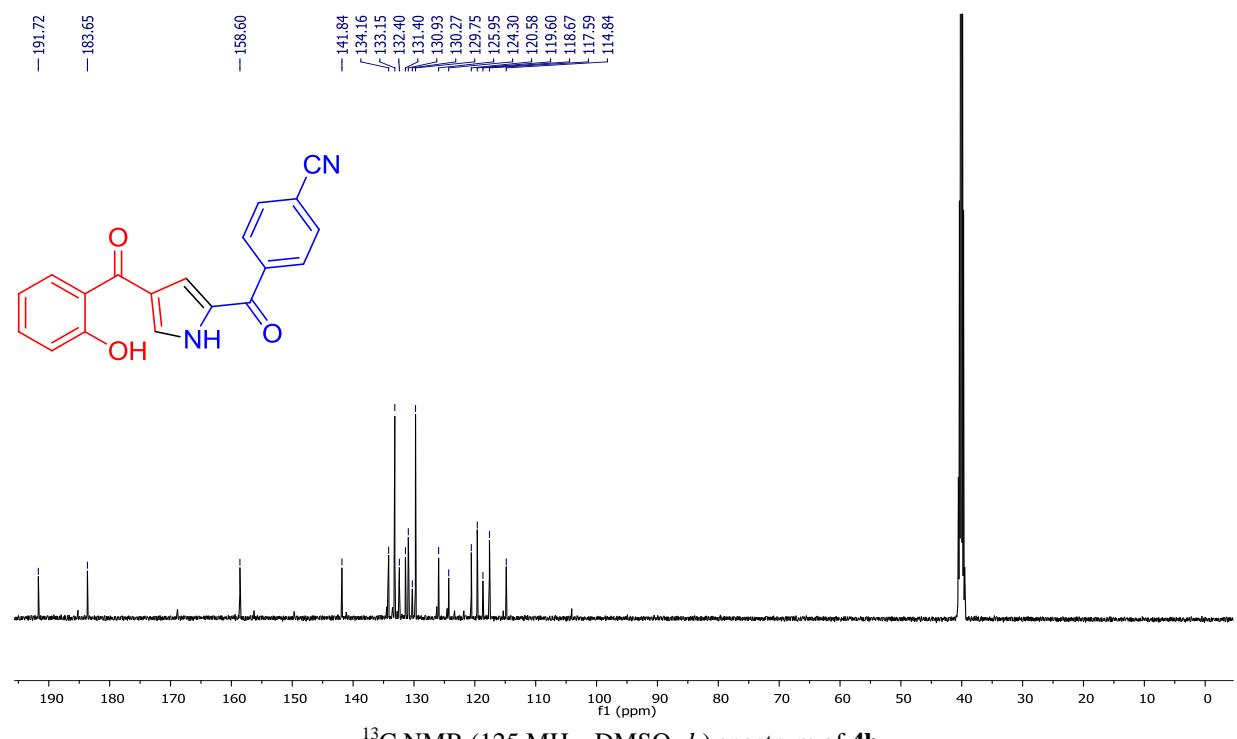
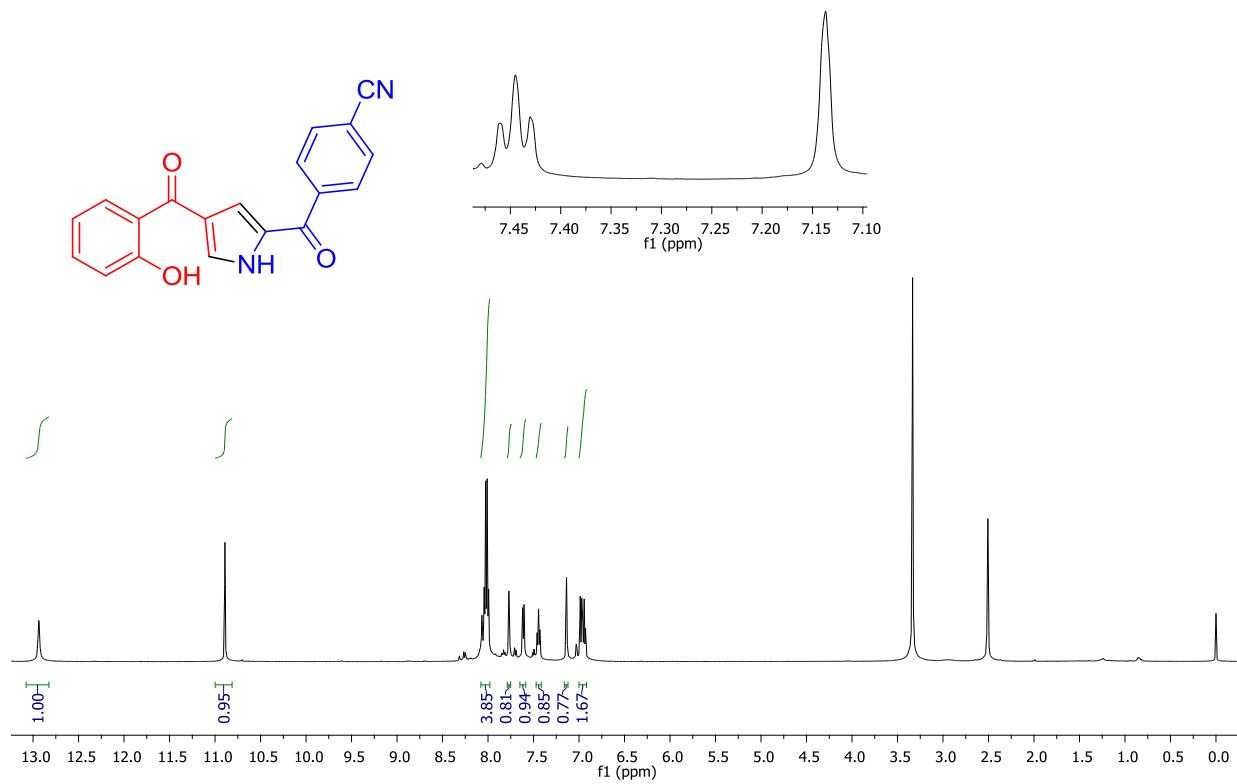


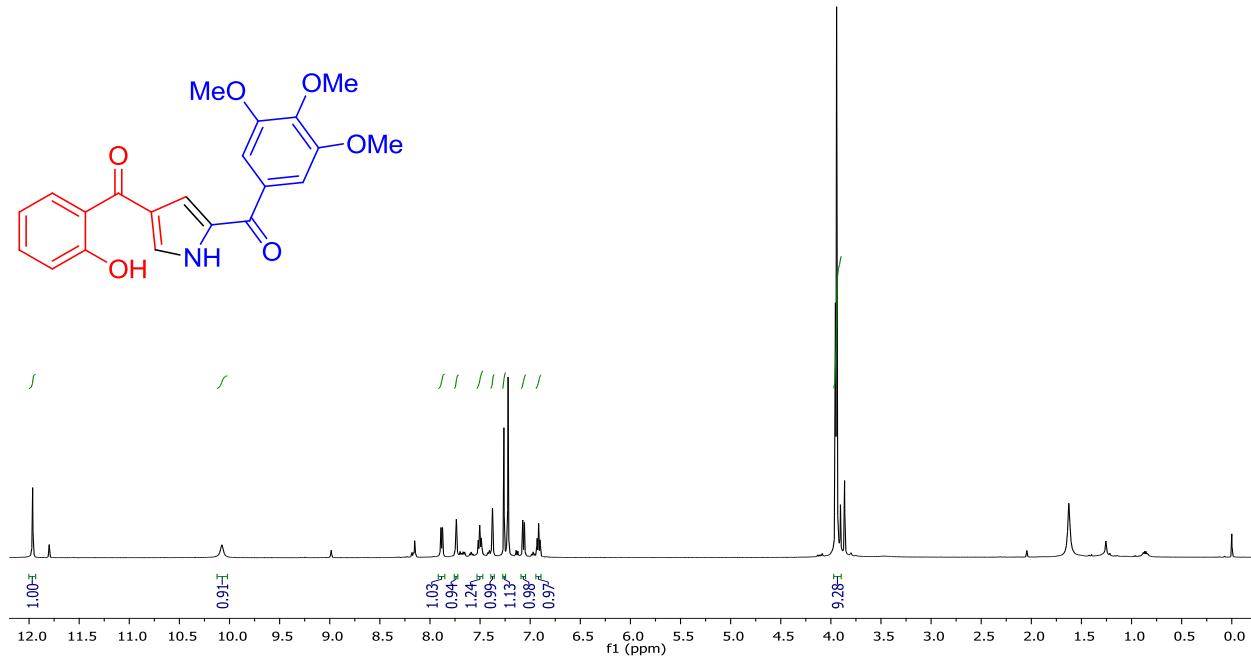
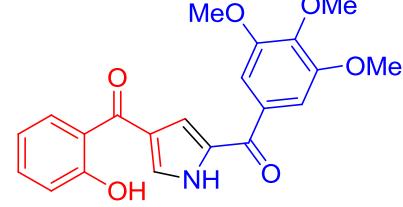
^1H NMR (500 MHz, CDCl_3) spectrum of **4f**.



^{13}C NMR (125 MHz, CDCl_3) spectrum of **4f**.

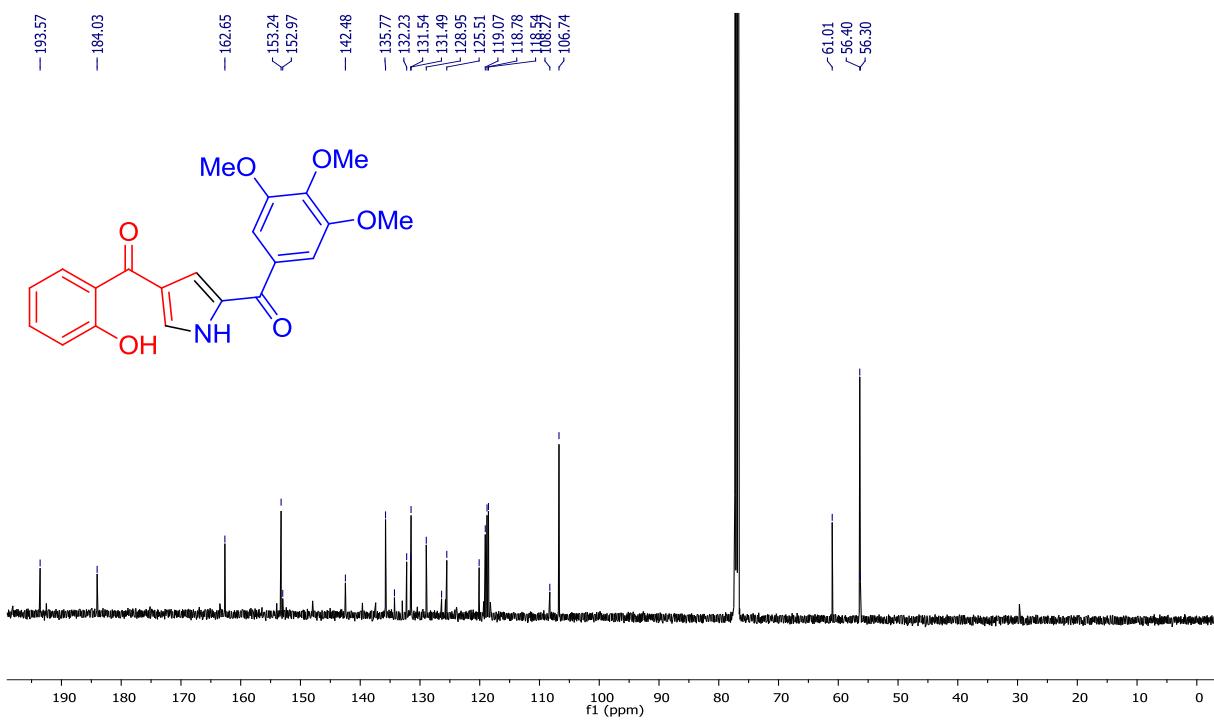
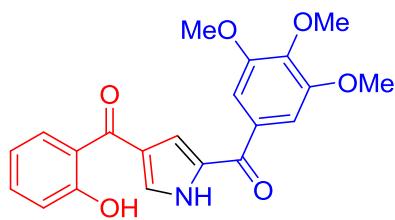




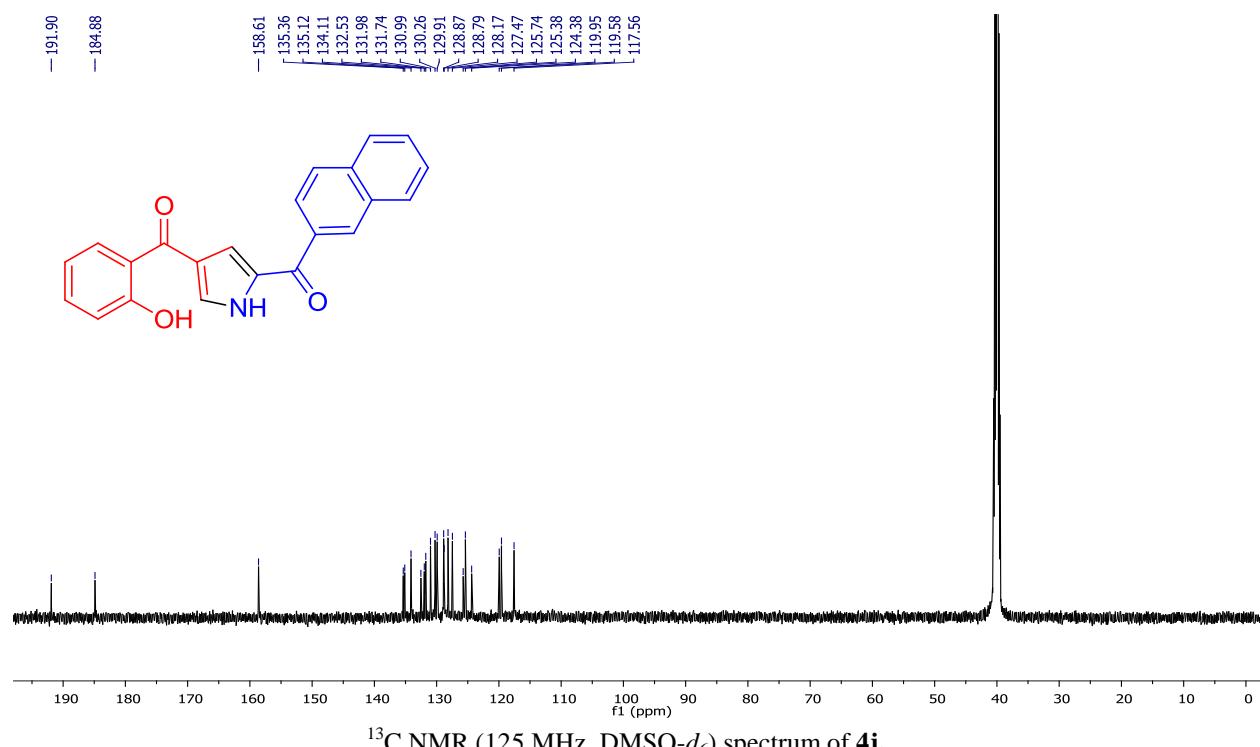
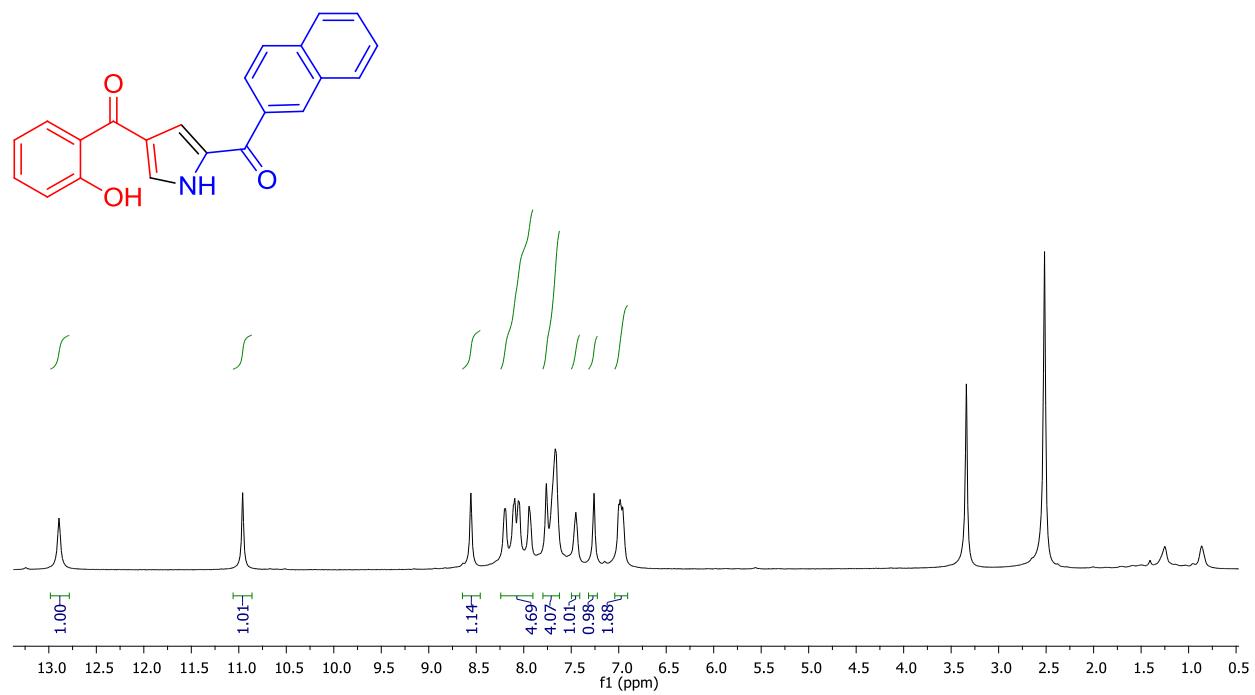


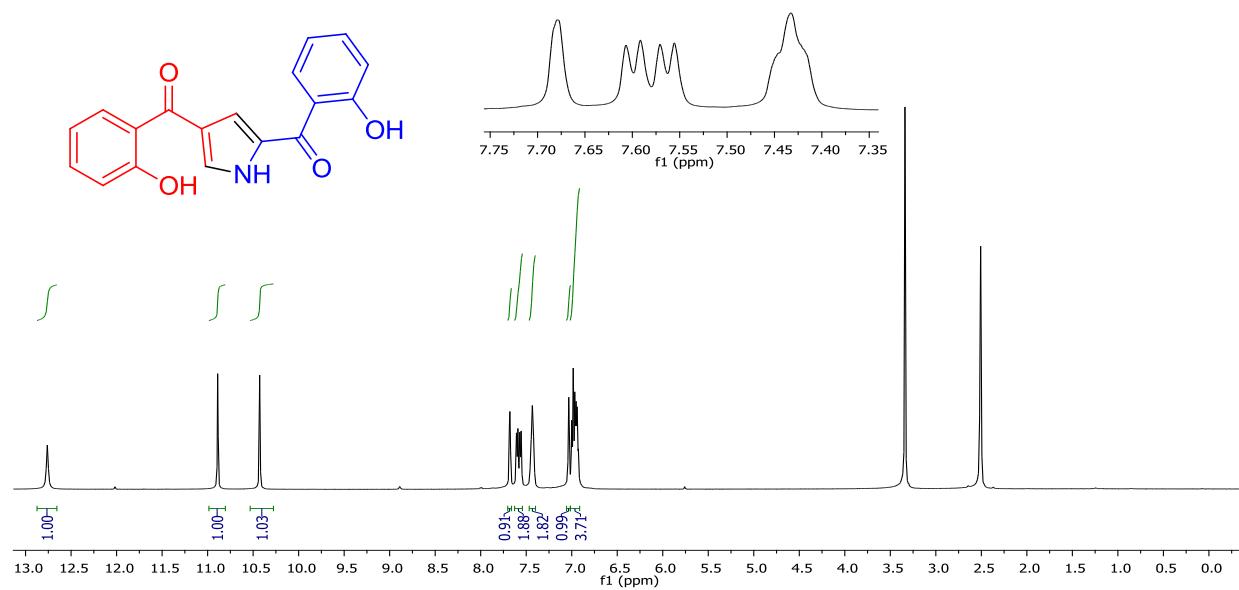
¹H NMR (500 MHz, CDCl₃) spectrum of **4i**.

Peak list for ¹H NMR (ppm): 12.00, 11.57, 11.03, 10.65, 10.57, 10.00, 9.54, 9.28, 8.94, 8.84, 8.74, 8.64, 8.54, 8.44, 8.34, 8.24, 8.14, 8.04, 7.94, 7.84, 7.74, 7.64, 7.54, 7.44, 7.34, 7.24, 7.14, 7.04, 6.94, 6.84, 6.74, 6.64, 6.54, 6.44, 6.34, 6.24, 6.14, 6.04, 5.94, 5.84, 5.74, 5.64, 5.54, 5.44, 5.34, 5.24, 5.14, 5.04, 4.94, 4.84, 4.74, 4.64, 4.54, 4.44, 4.34, 4.24, 4.14, 4.04, 3.94, 3.84, 3.74, 3.64, 3.54, 3.44, 3.34, 3.24, 3.14, 3.04, 2.94, 2.84, 2.74, 2.64, 2.54, 2.44, 2.34, 2.24, 2.14, 2.04, 1.94, 1.84, 1.74, 1.64, 1.54, 1.44, 1.34, 1.24, 1.14, 1.04, 0.94, 0.84, 0.74, 0.64, 0.54, 0.44, 0.34, 0.24, 0.14, 0.04.

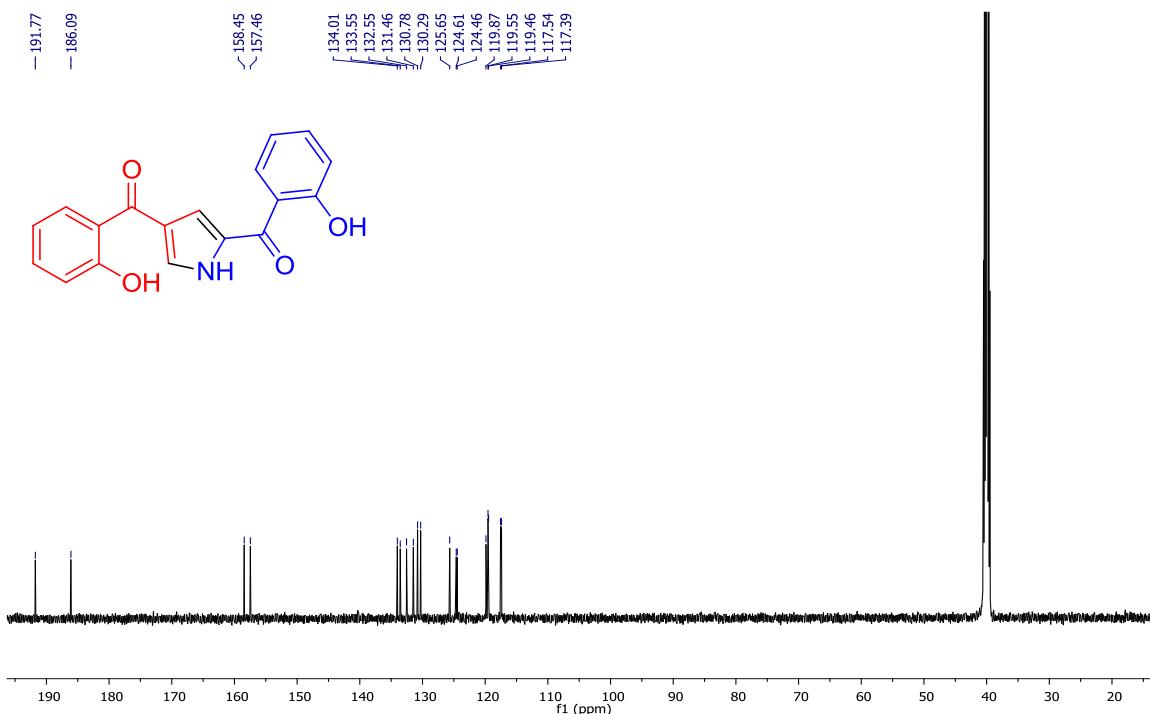


¹³C NMR (125 MHz, CDCl₃) spectrum of **4i**.

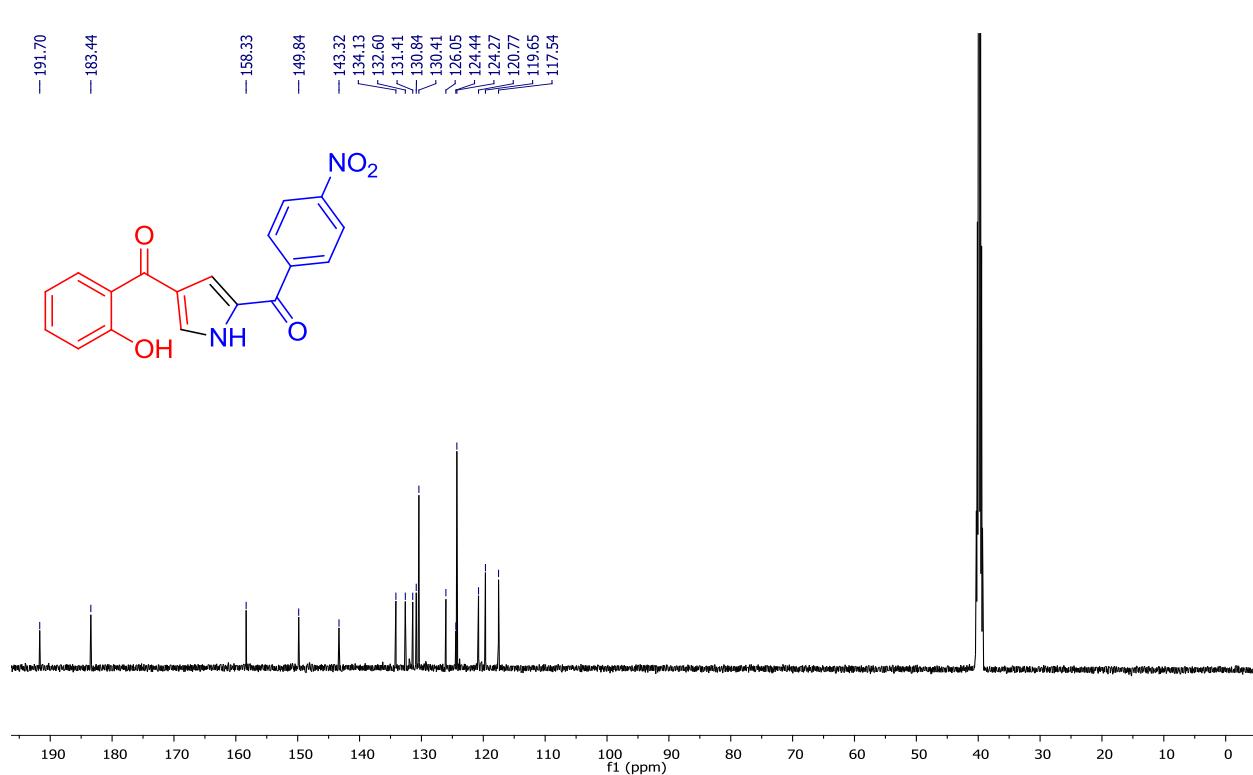
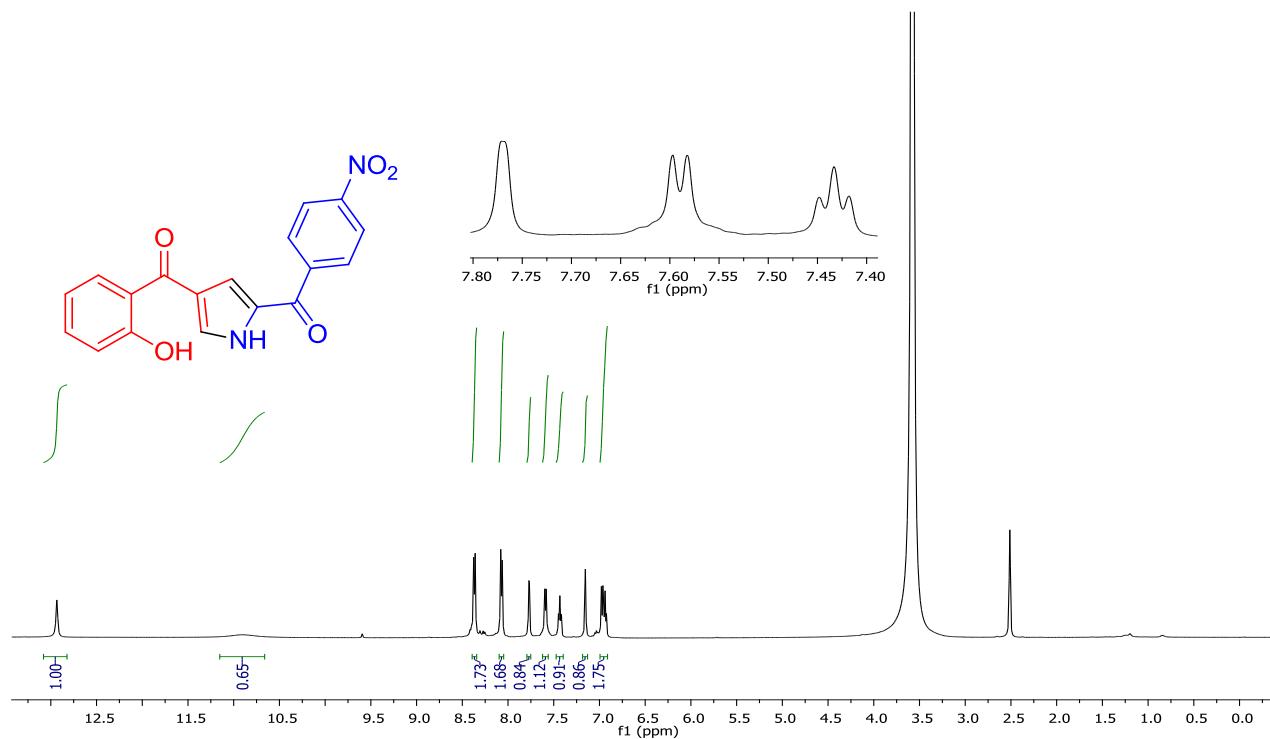


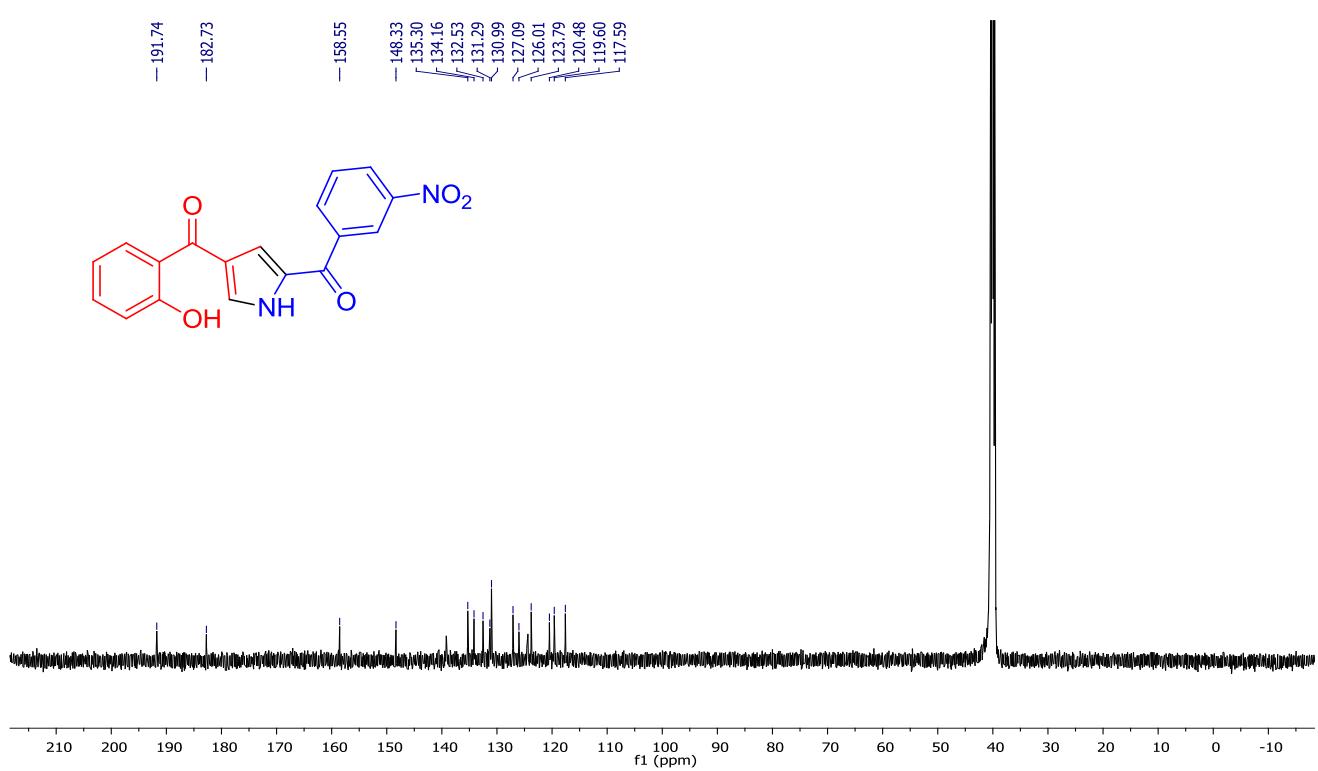
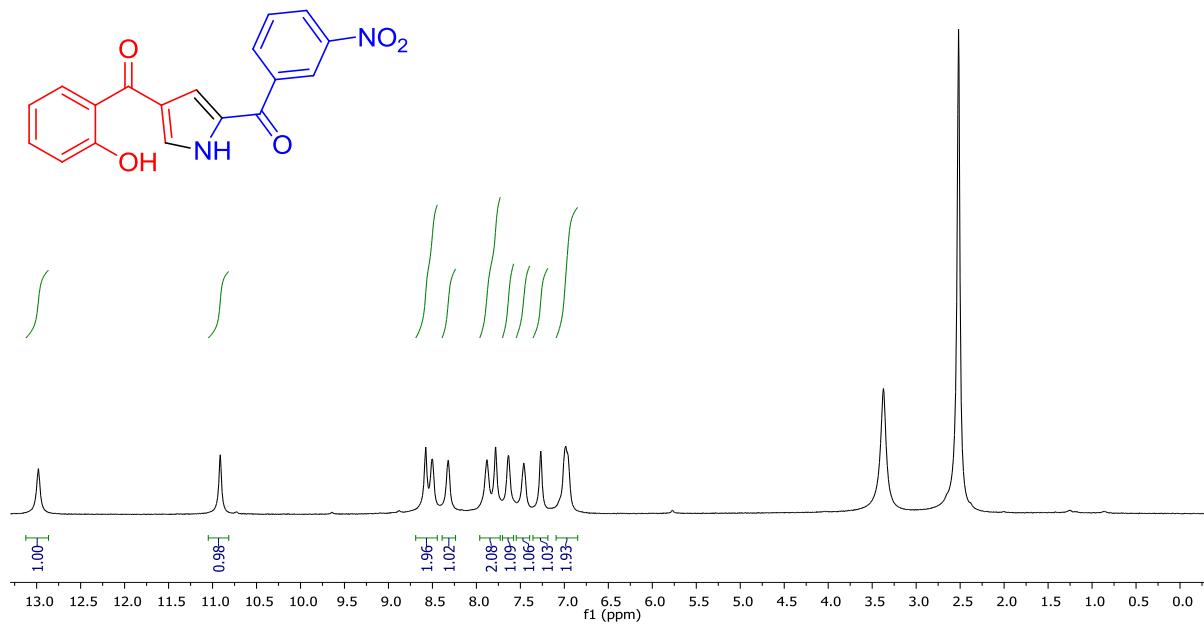


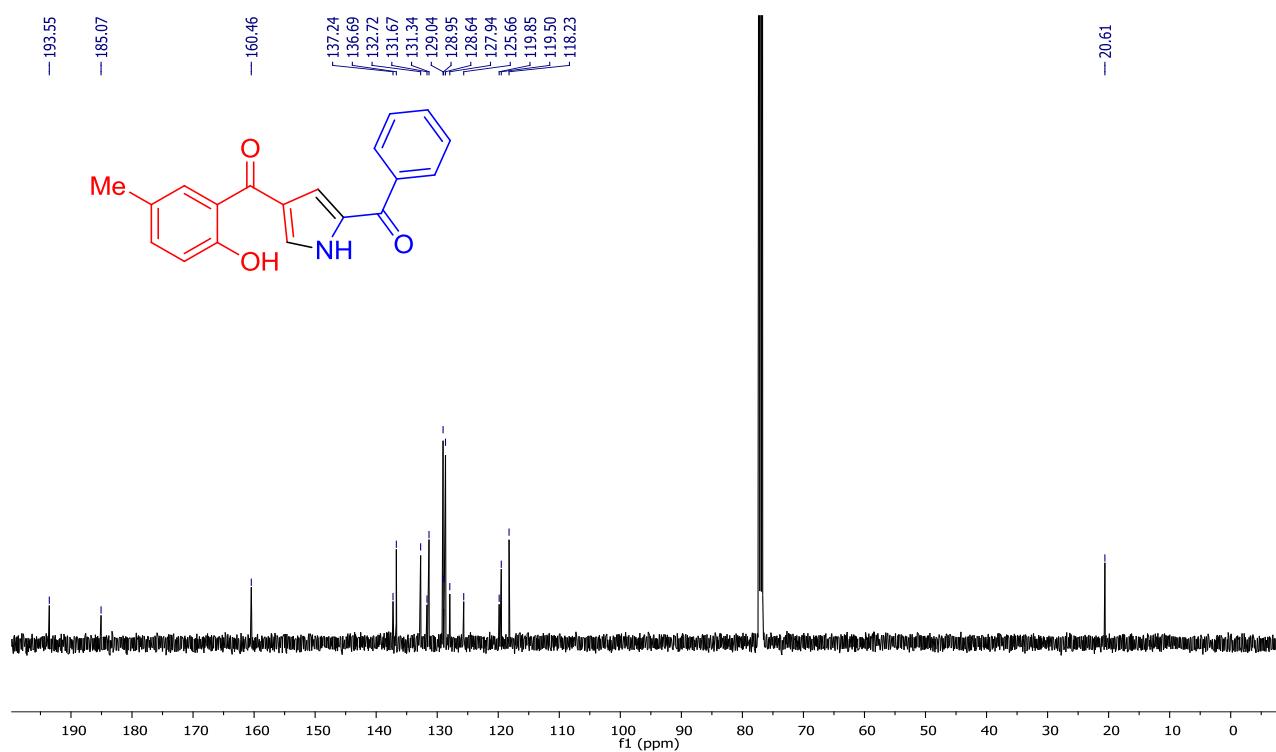
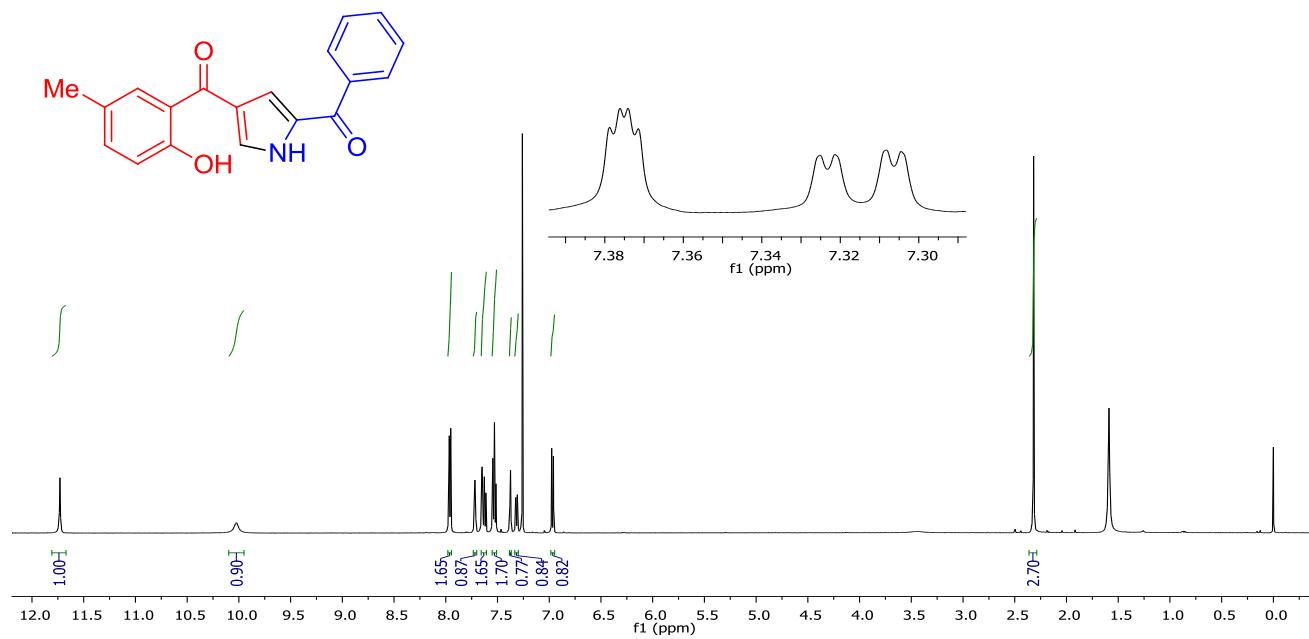
^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of **4k**.

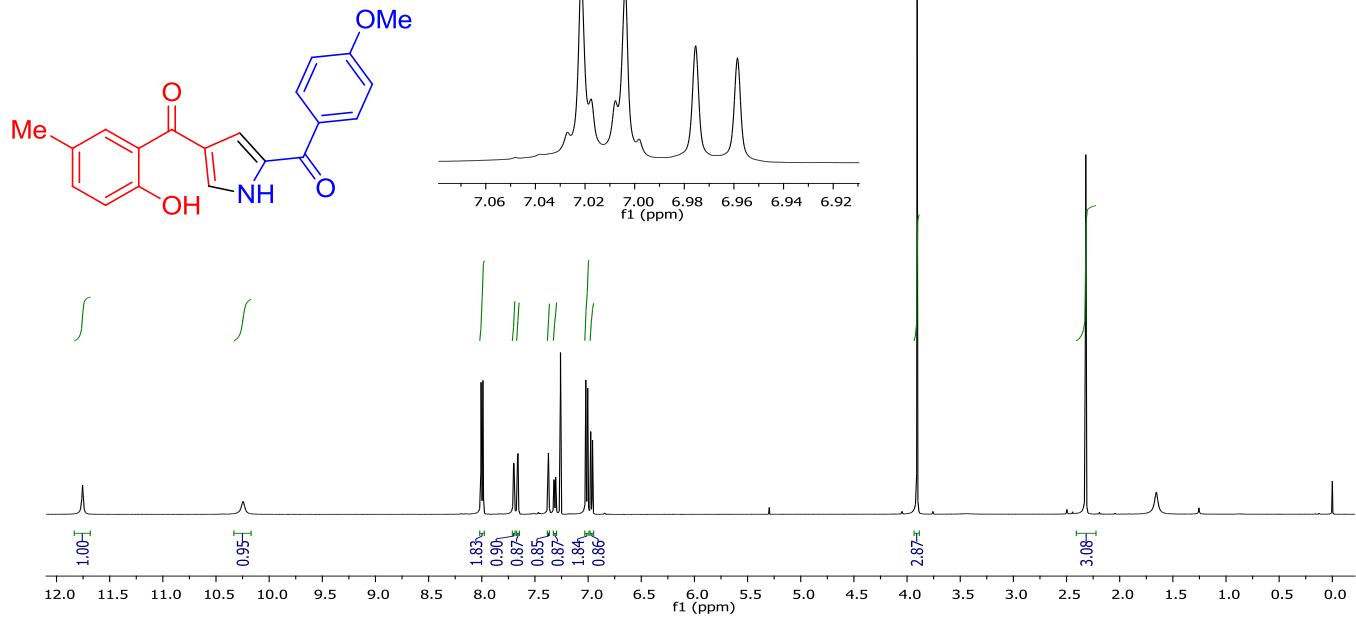


^{13}C NMR (125 MHz, $\text{DMSO}-d_6$) spectrum of **4k**.

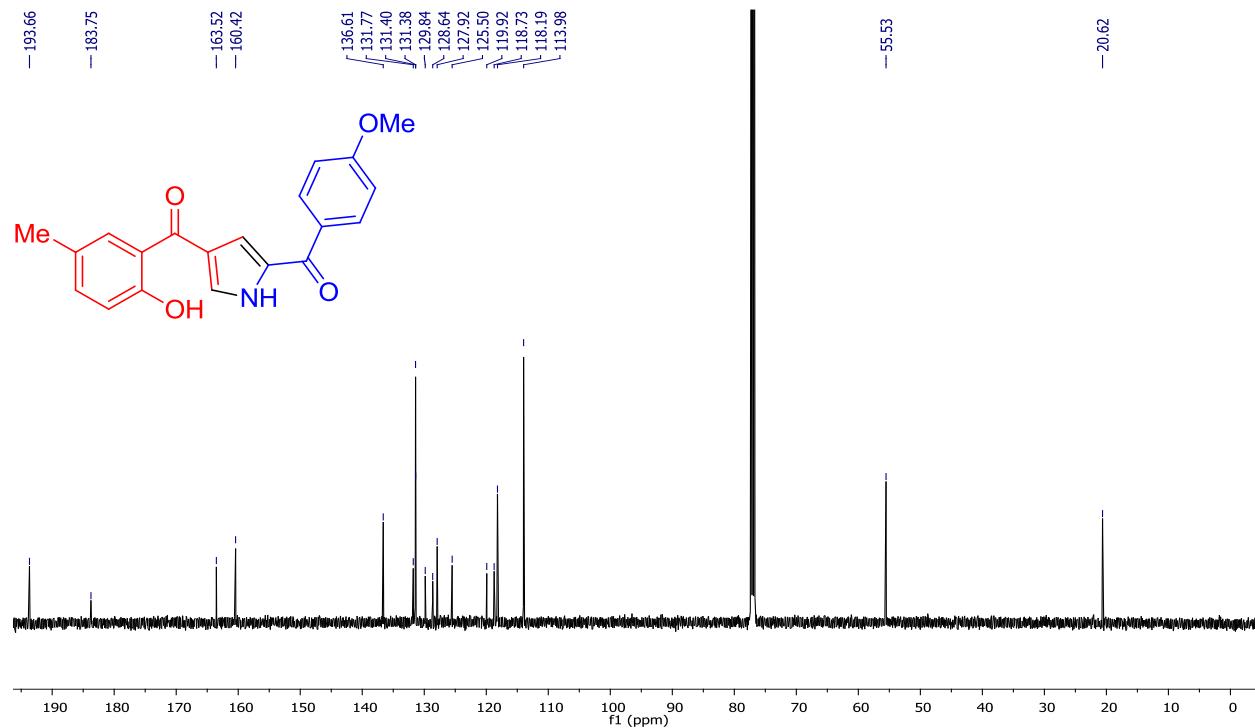




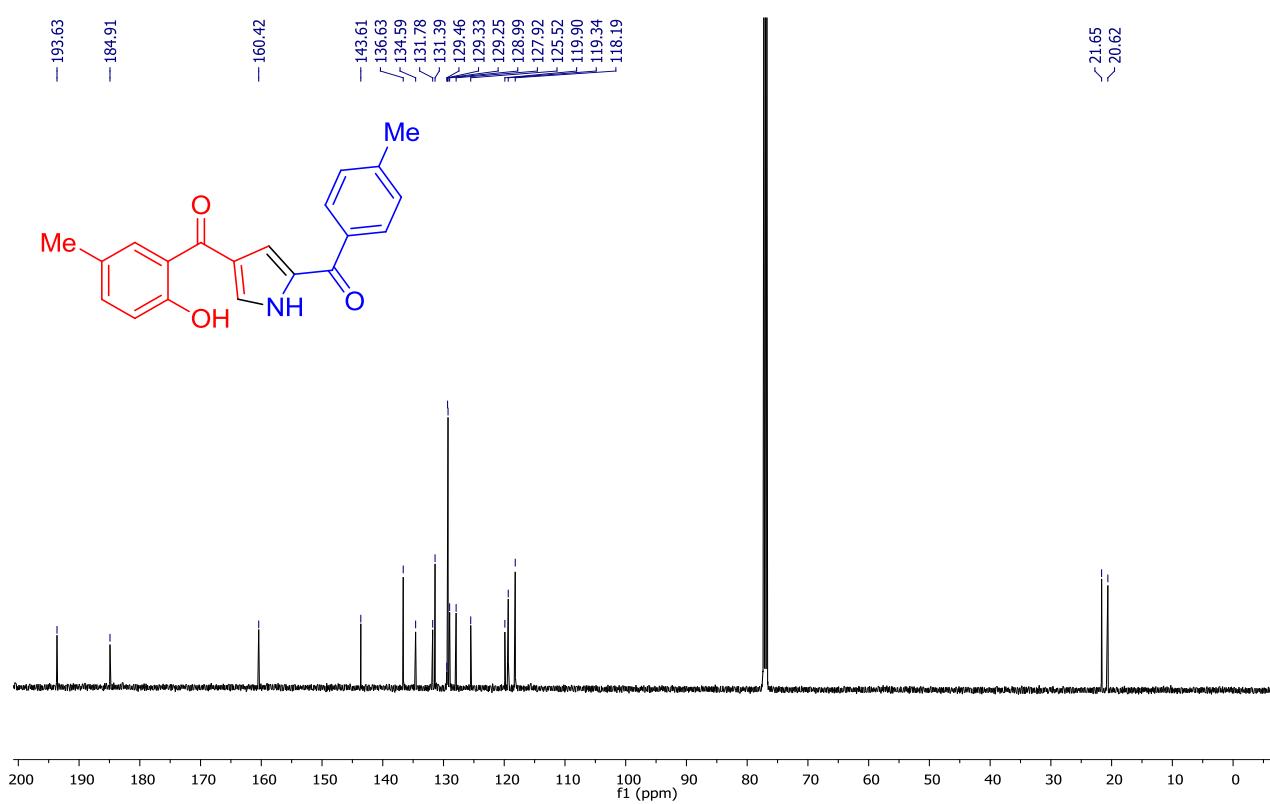
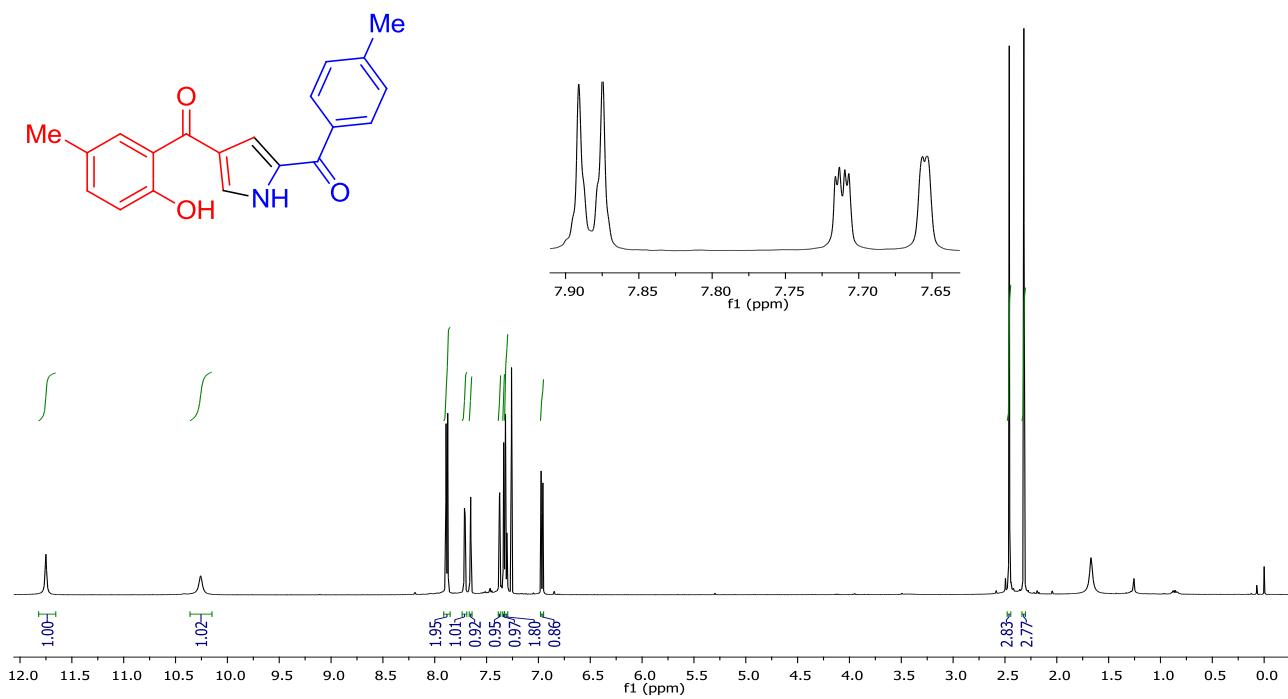


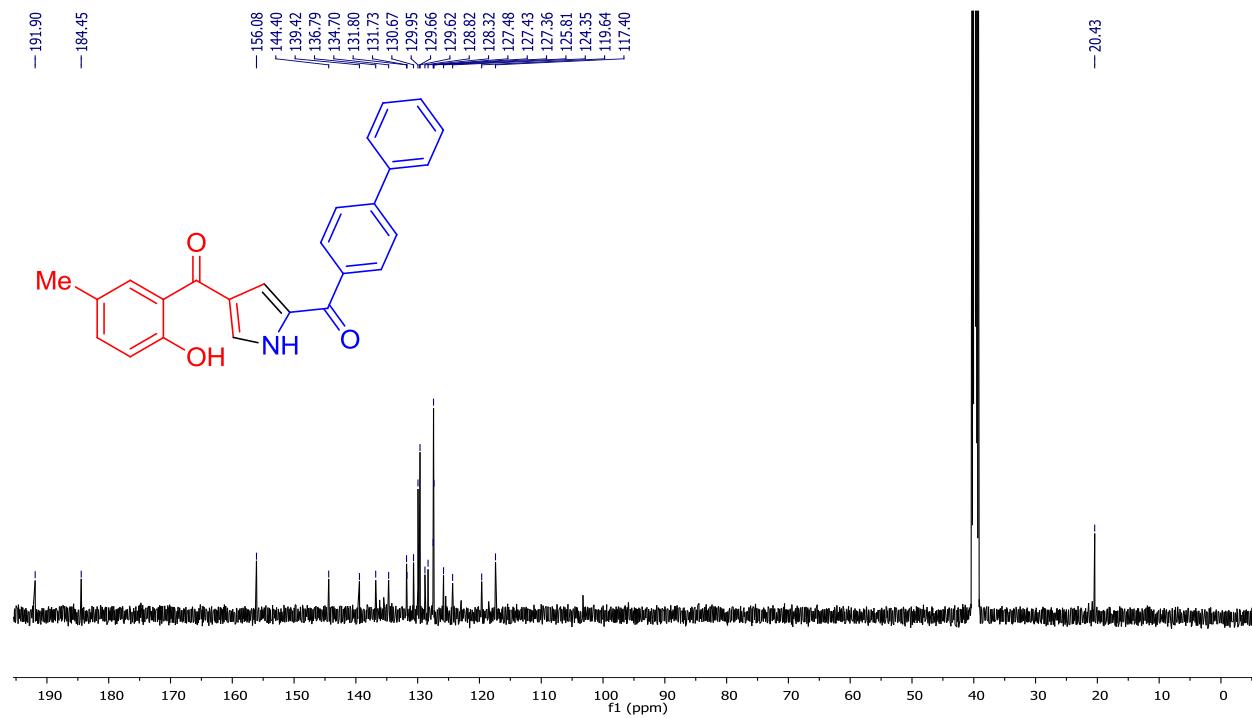
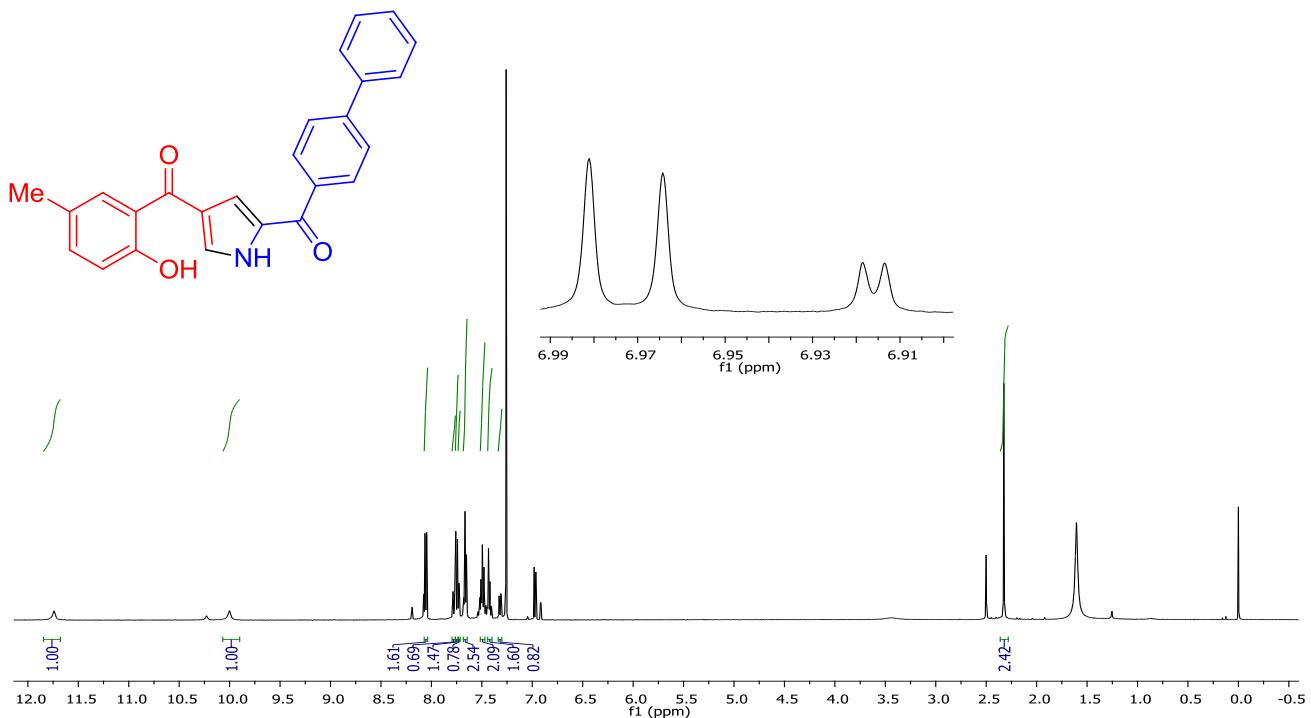


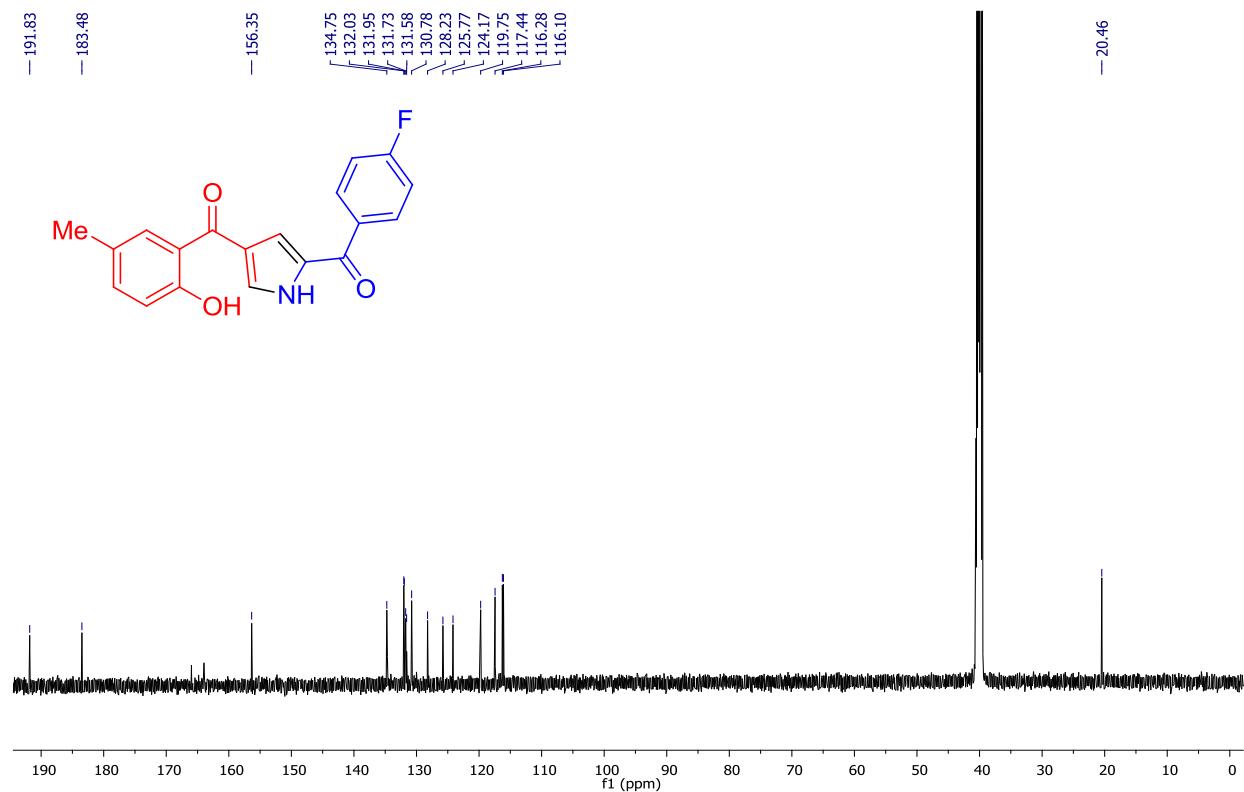
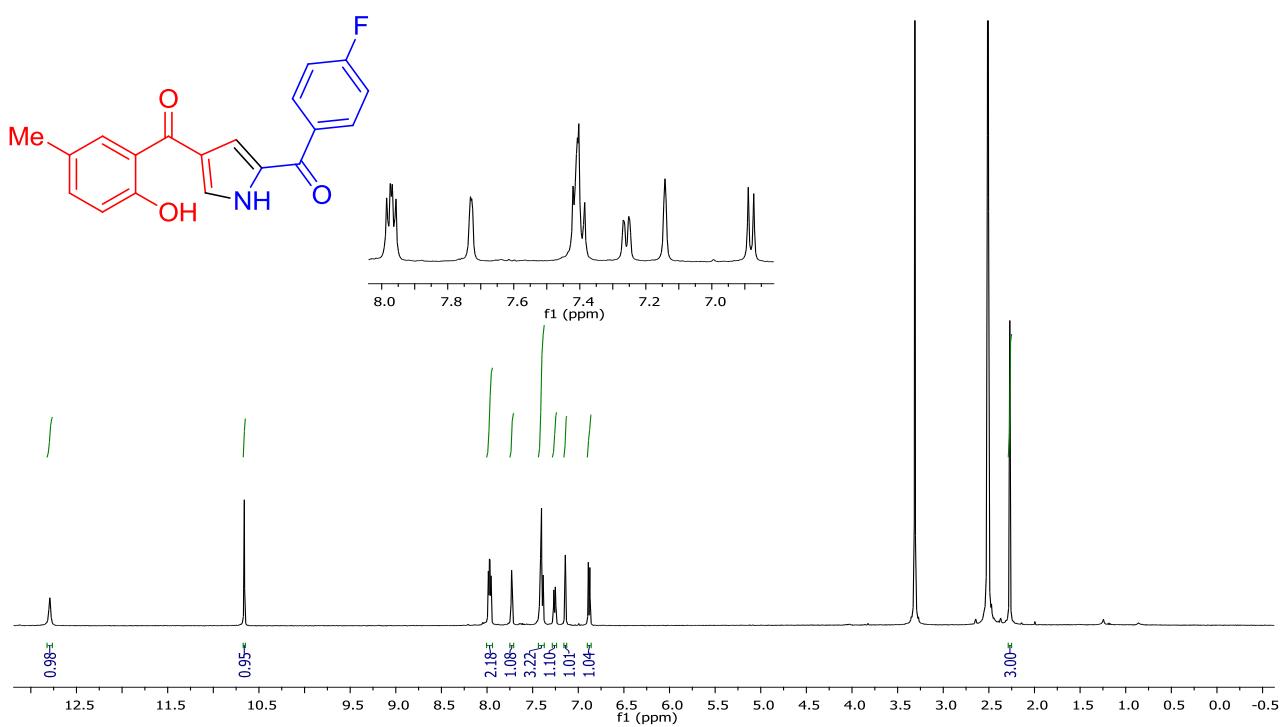
^1H NMR (500 MHz, CDCl_3) spectrum of **5b**.

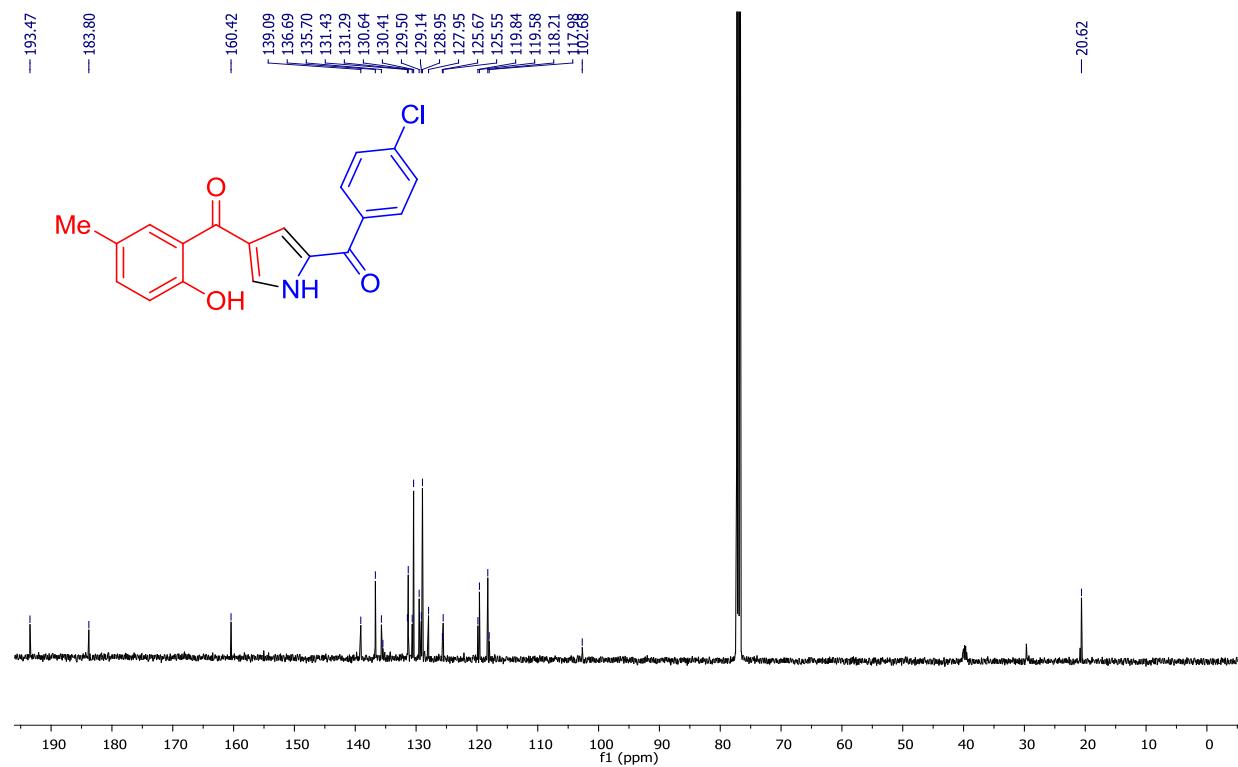
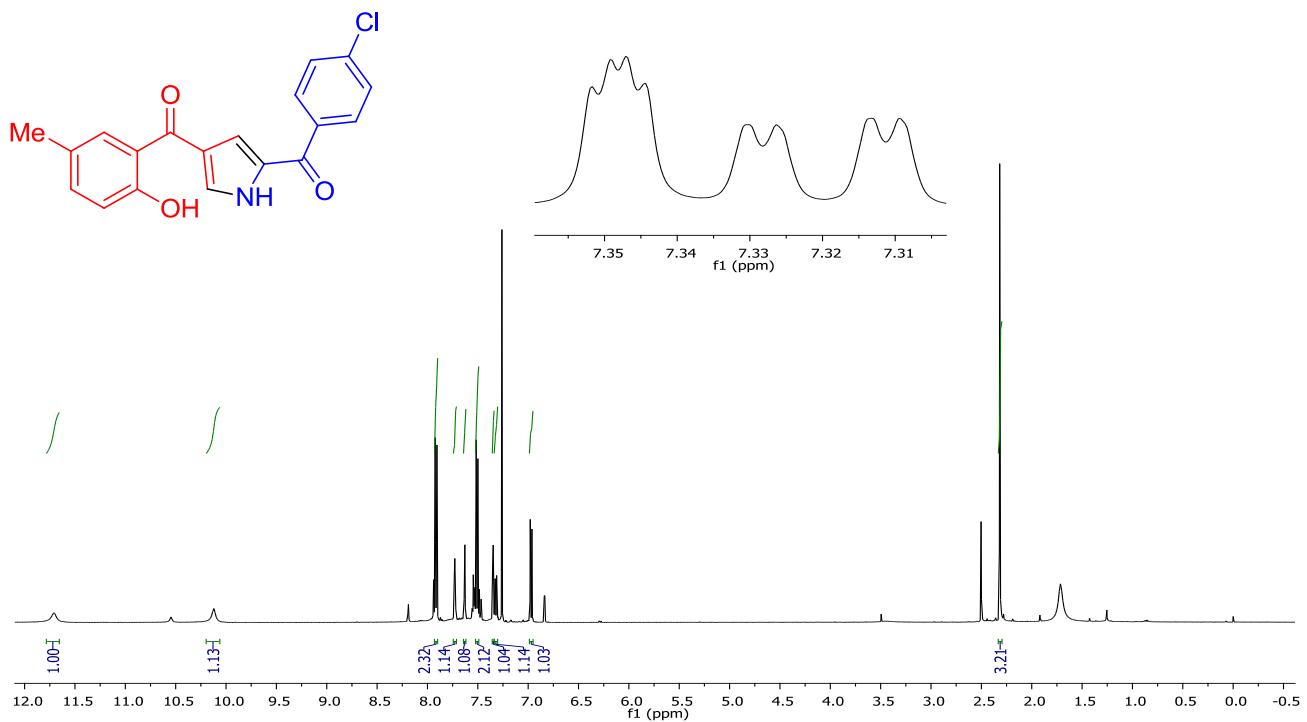


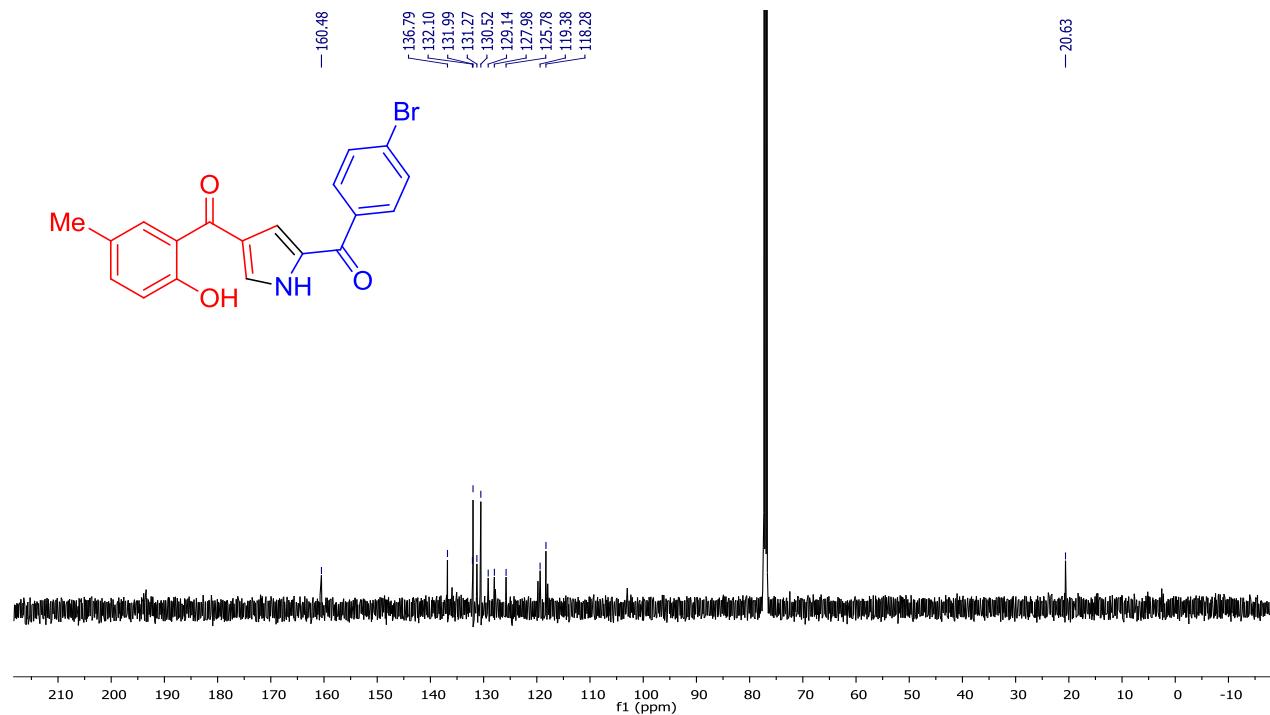
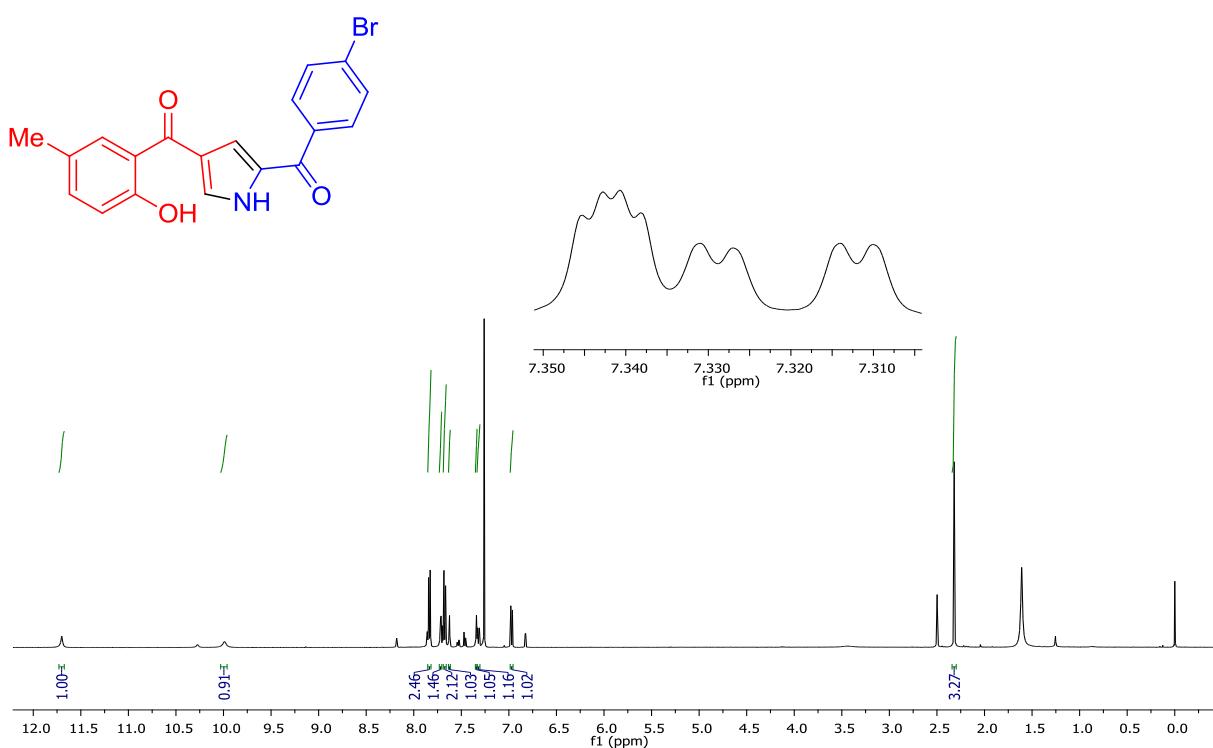
^{13}C NMR (125 MHz, CDCl_3) spectrum of **5b**.

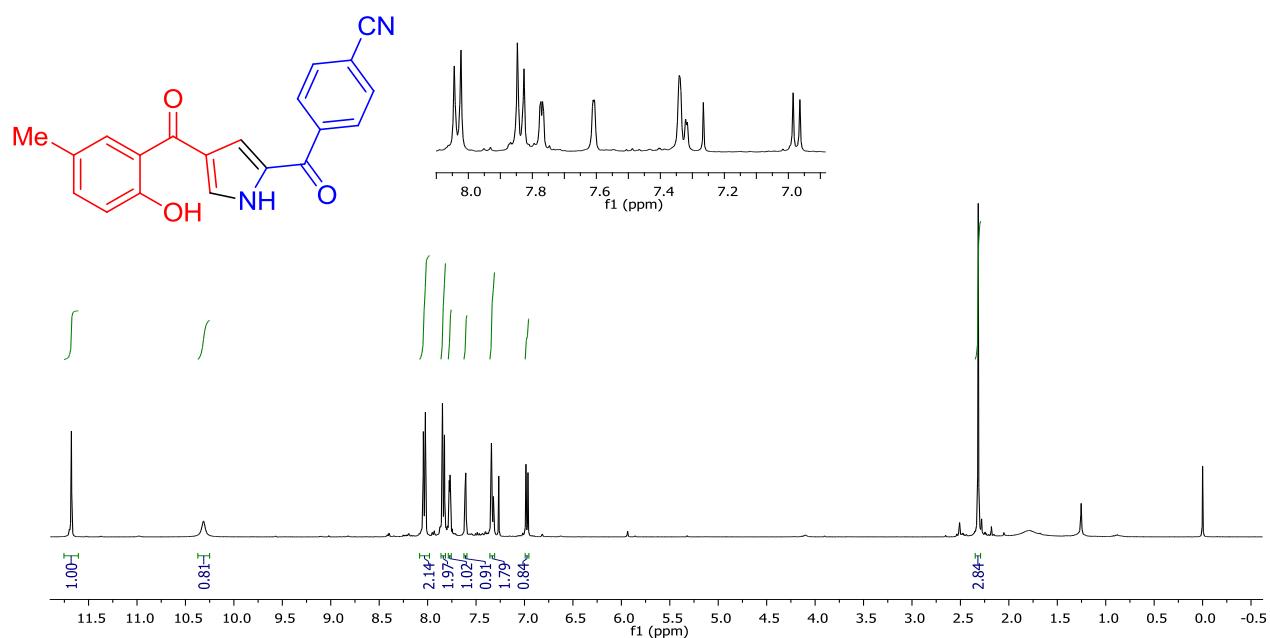




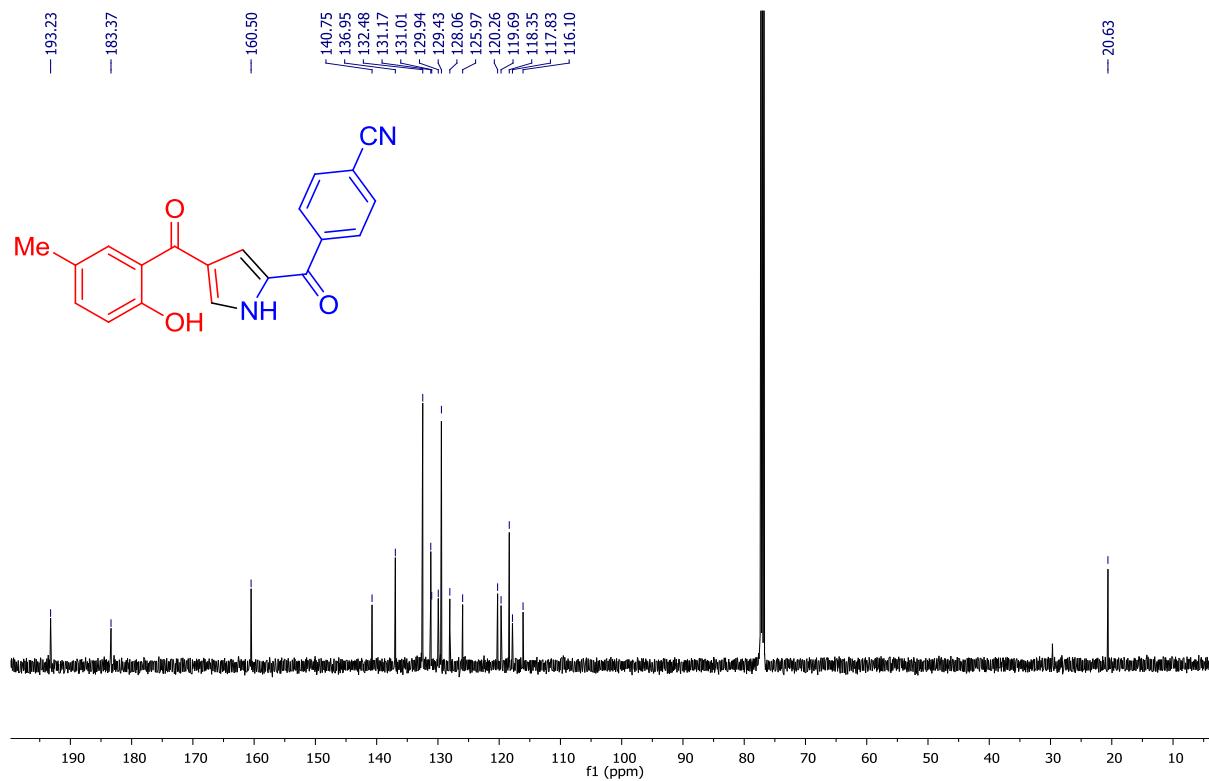




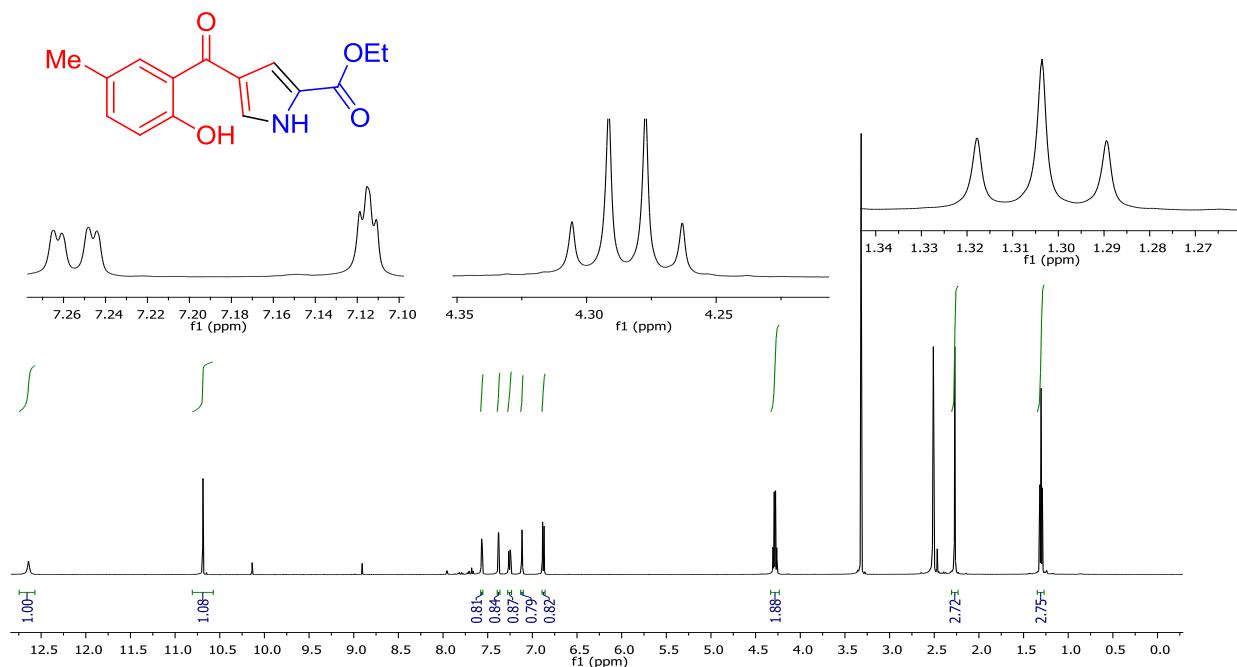




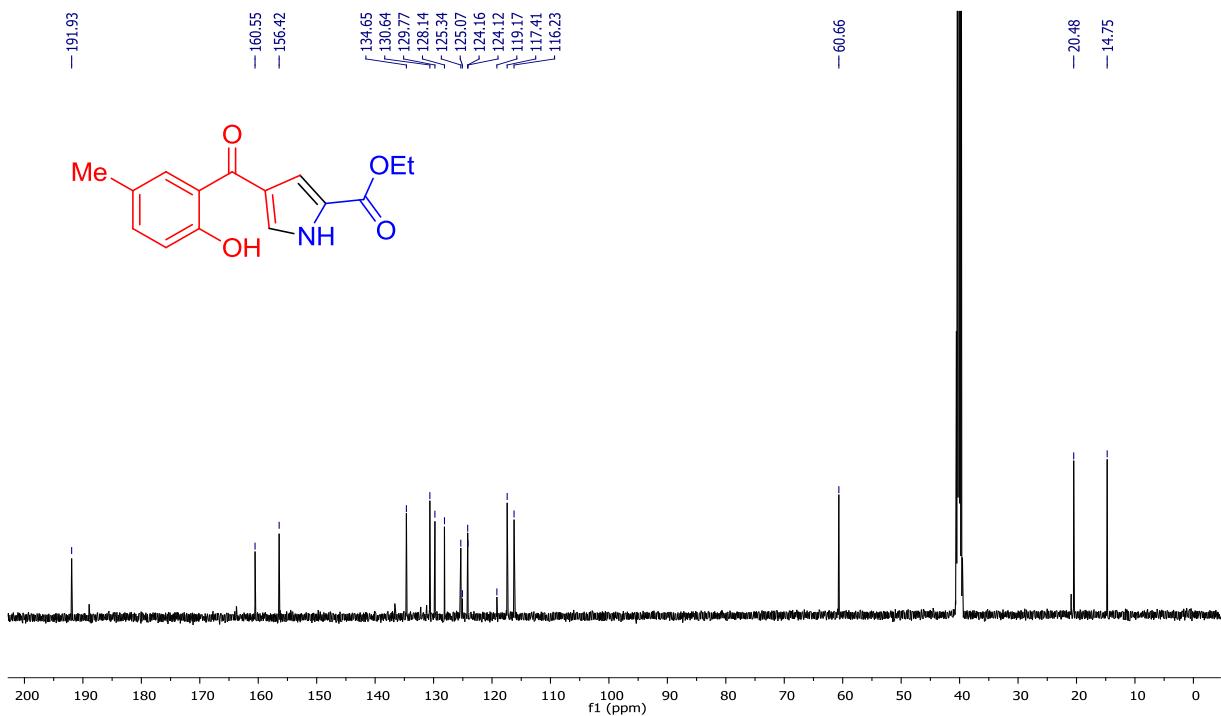
¹H NMR (500 MHz, CDCl₃) spectrum of **5h**.



¹³C NMR (125 MHz, CDCl₃) spectrum of **5h**.



^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of **5n**.



^{13}C NMR (125 MHz, $\text{DMSO}-d_6$) spectrum of **5n**.

