

Electronic Supplementary Information

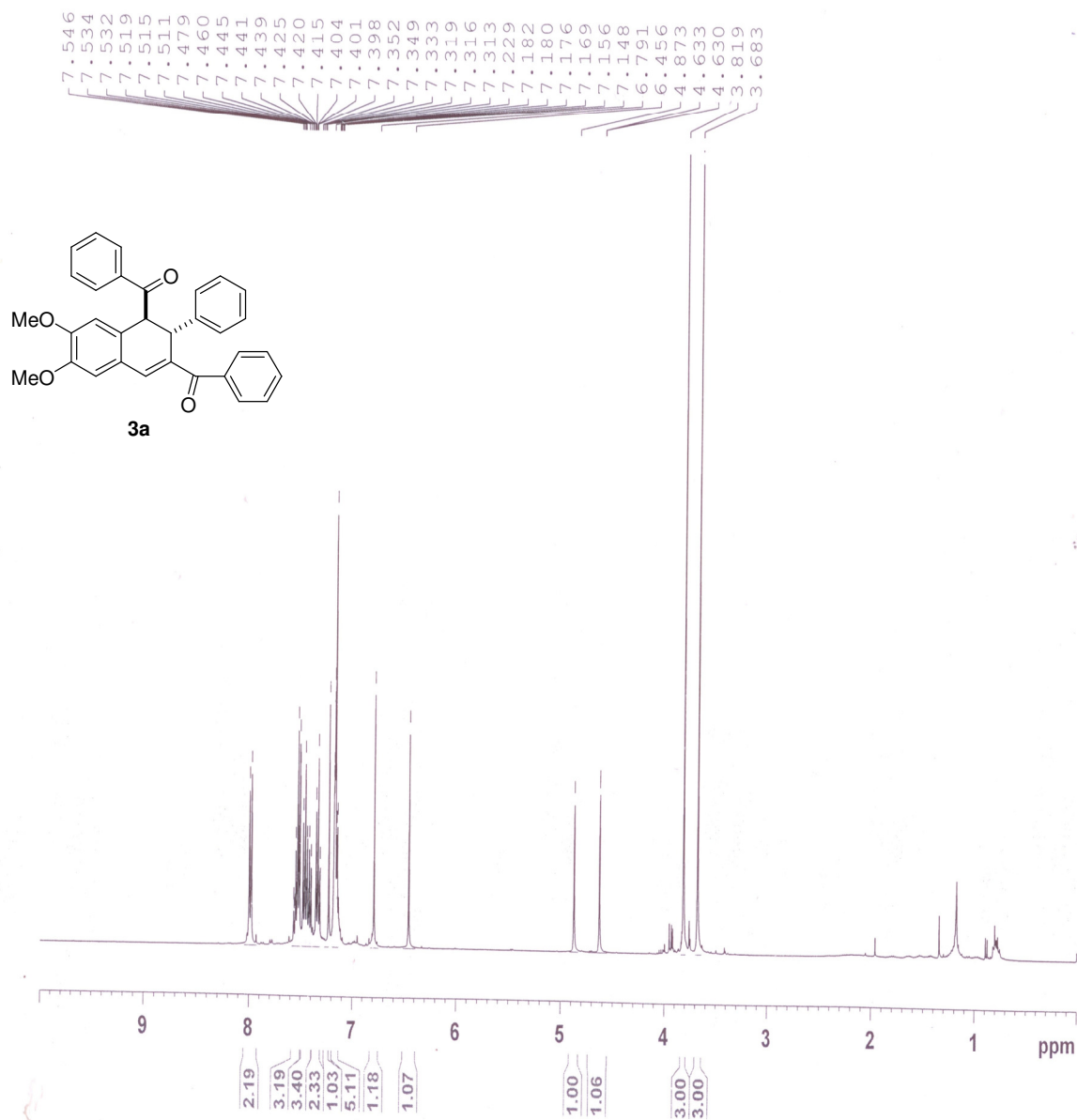
**Indium Triflate-Catalysed Diels-Alder Reactions of
Isochromenylium Cations with Enones**

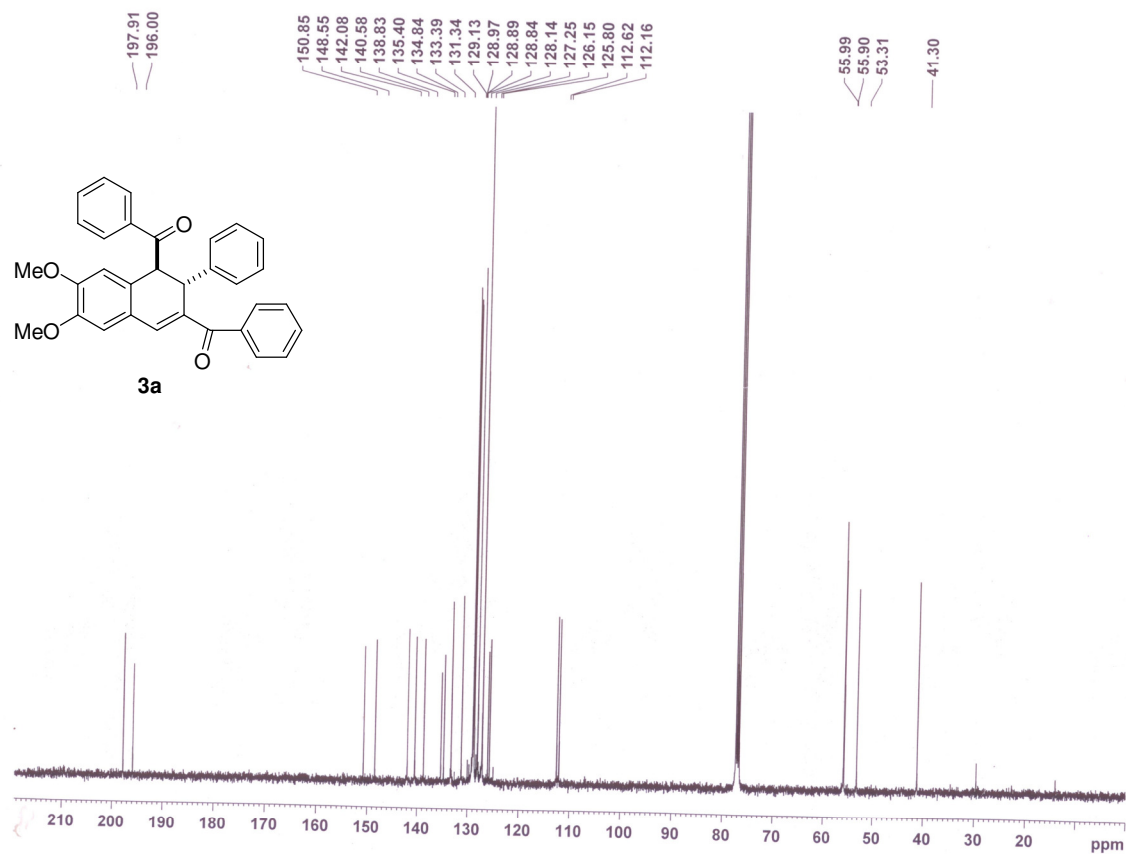
Thangavel Selvi and Kannupal Srinivasan*

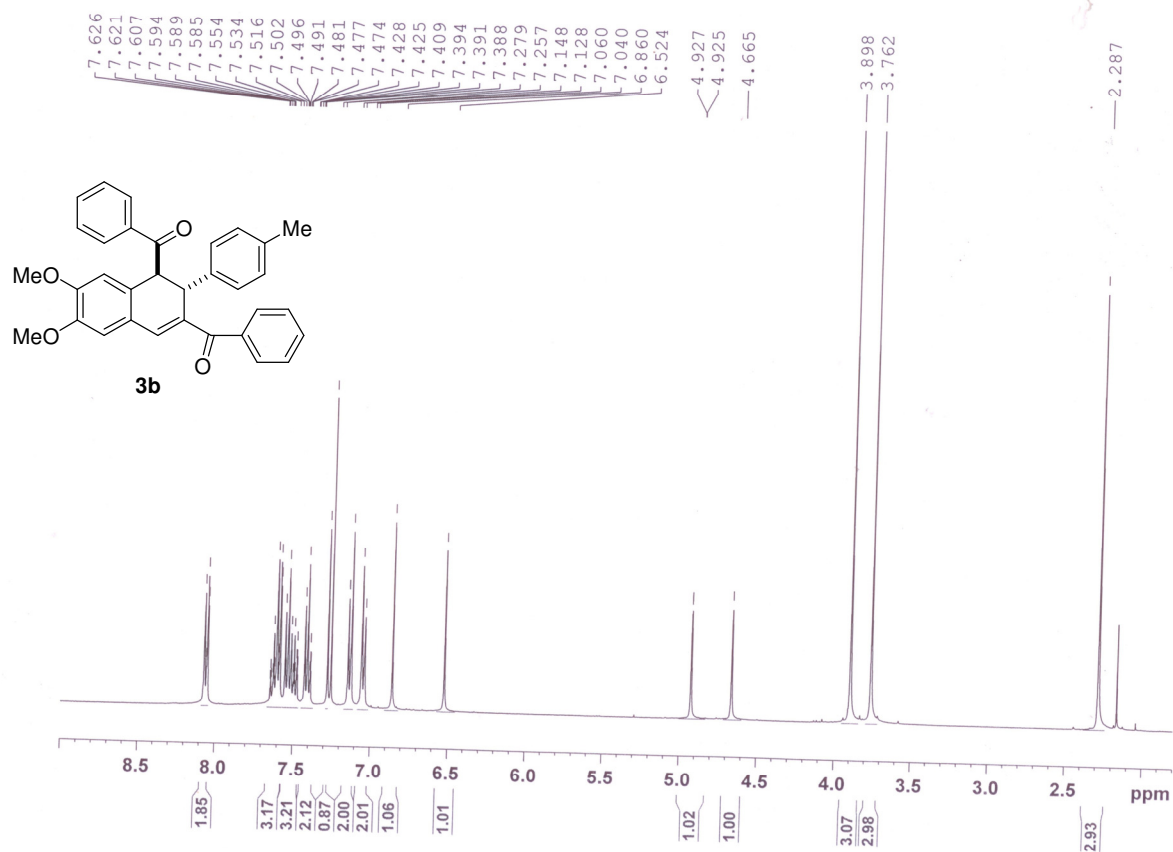
School of Chemistry, Bharathidasan University, Tiruchirappalli- 620 024, Tamil Nadu, India

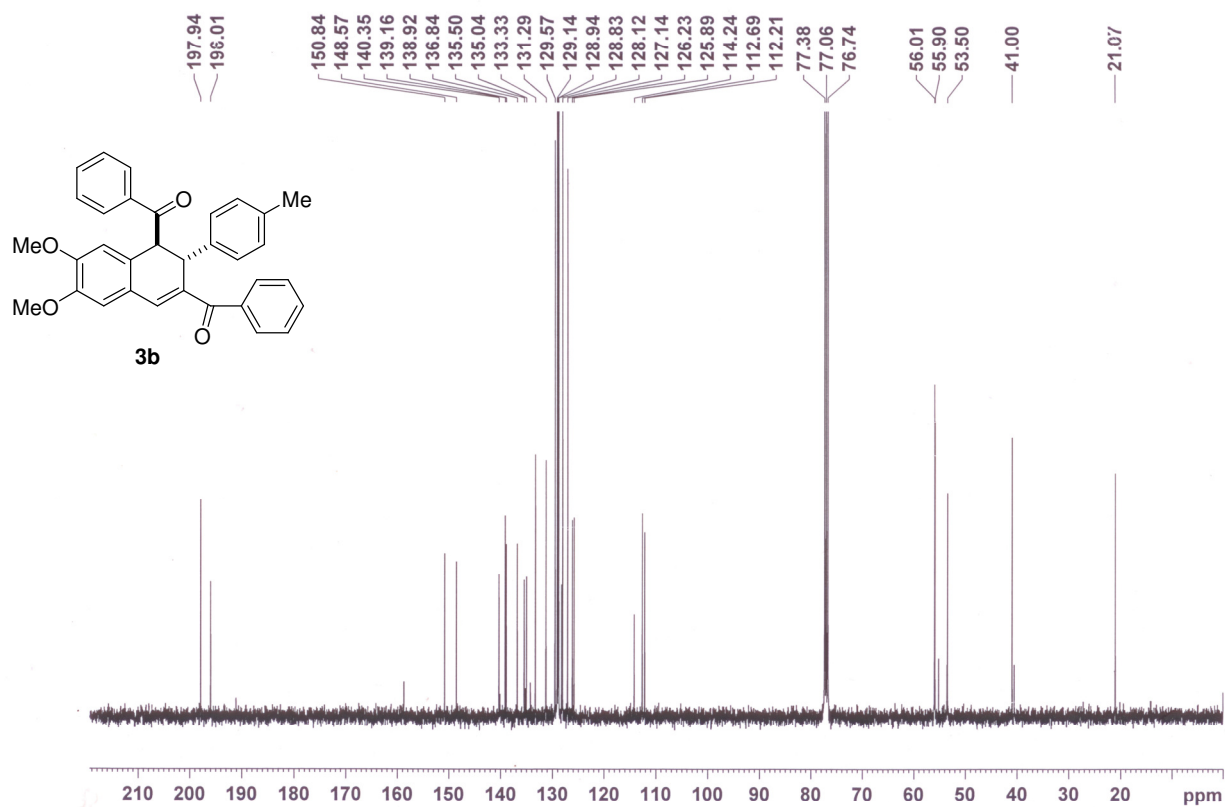
srinivasank@bdu.ac.in

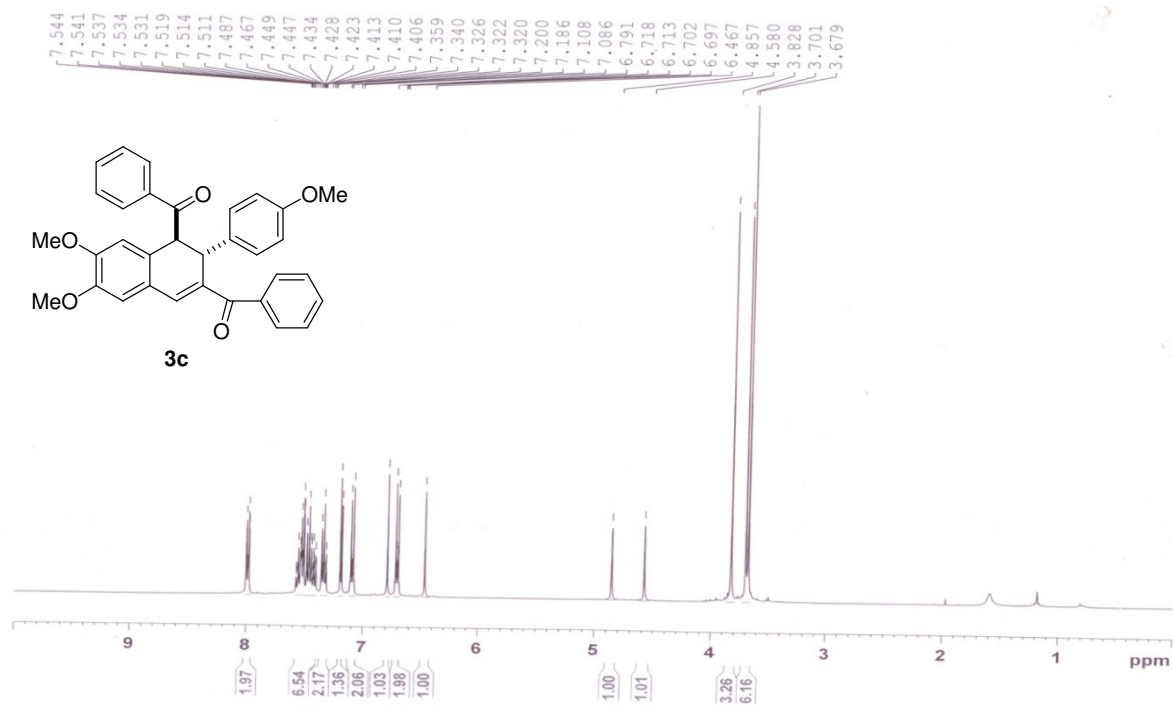
Copies of ^1H and ^{13}C NMR spectra for compounds **3a-n** and **5a-c** and computation details and optimized geometries of transition states **TS-1** and **TS-2**

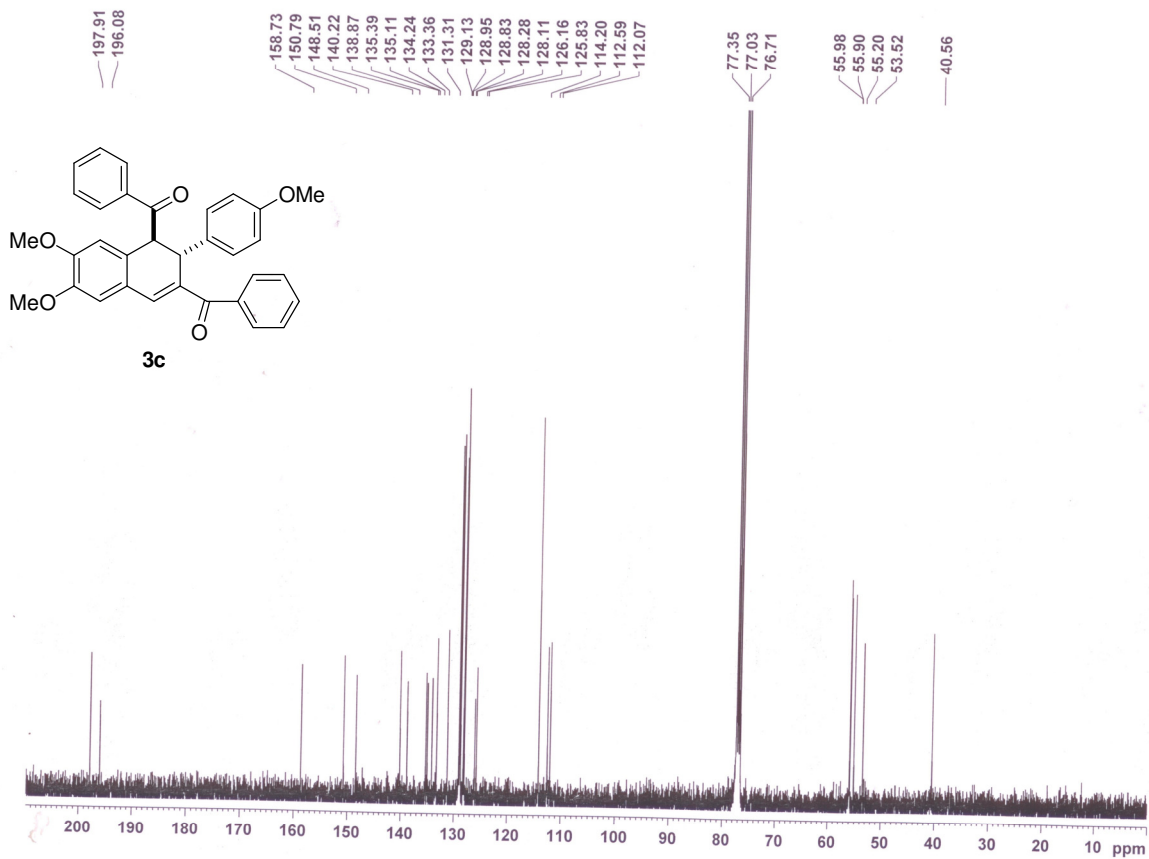


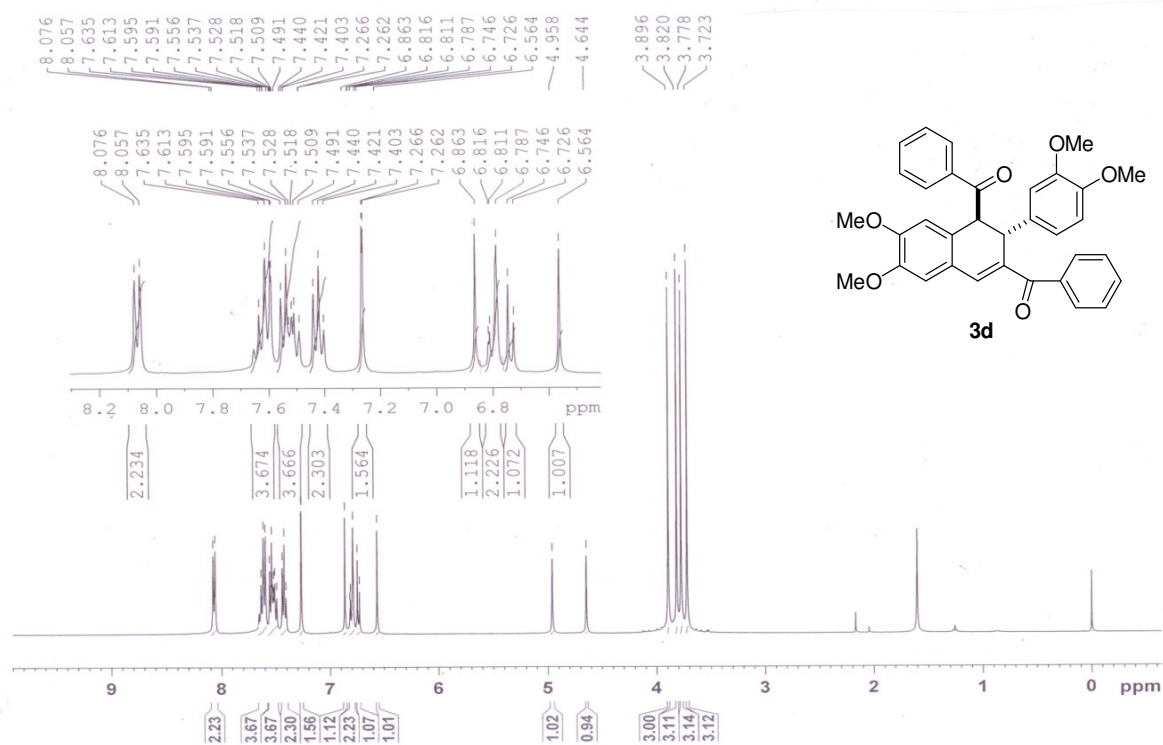


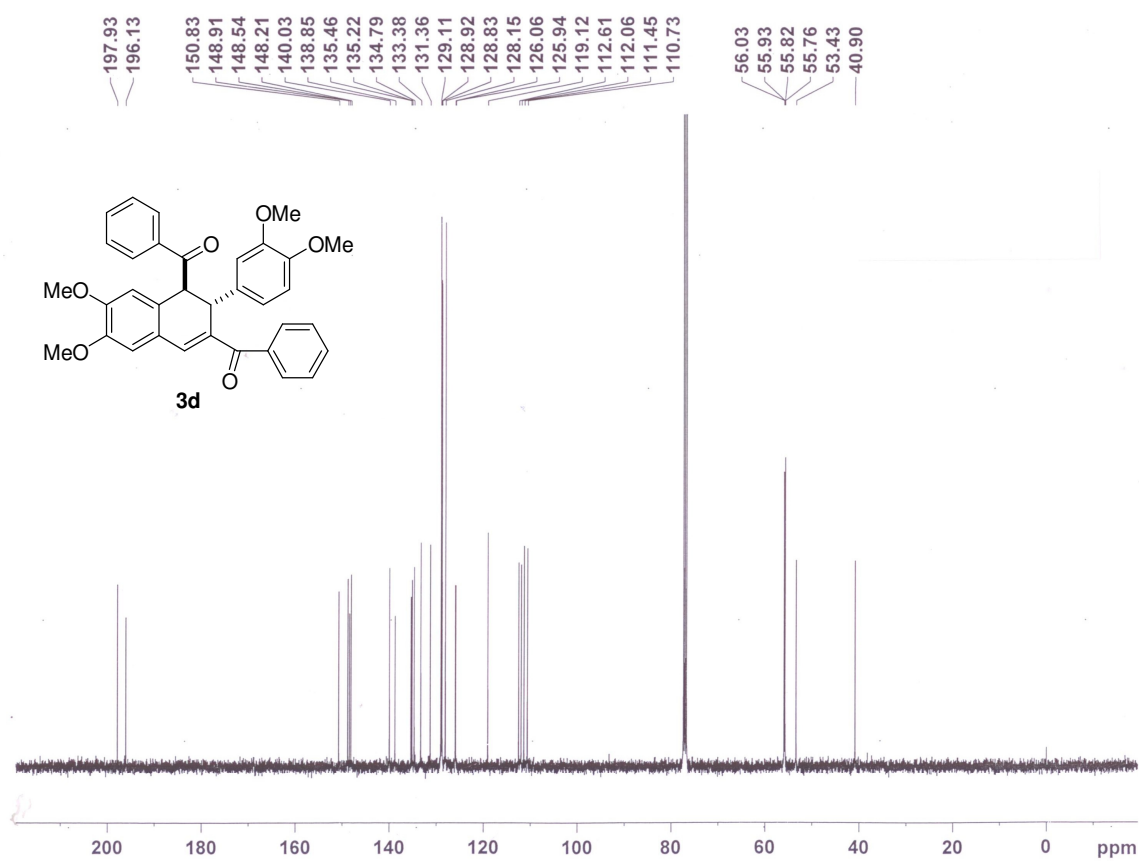


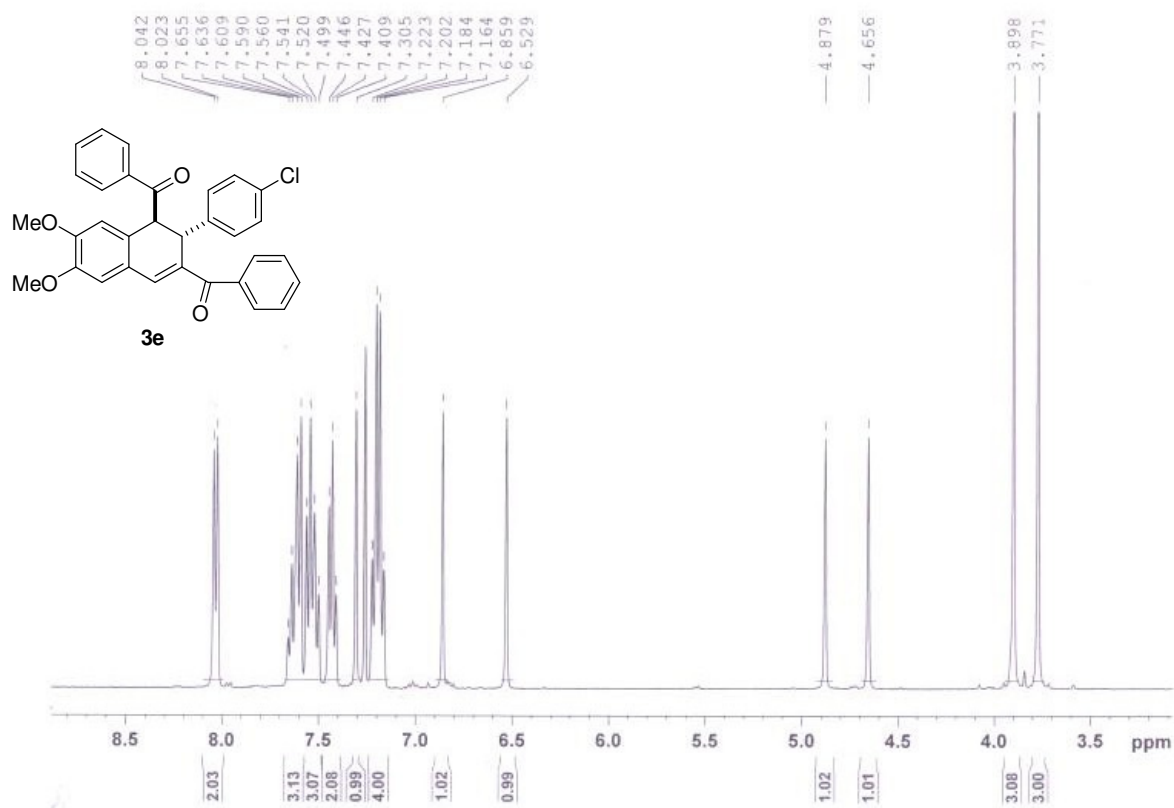


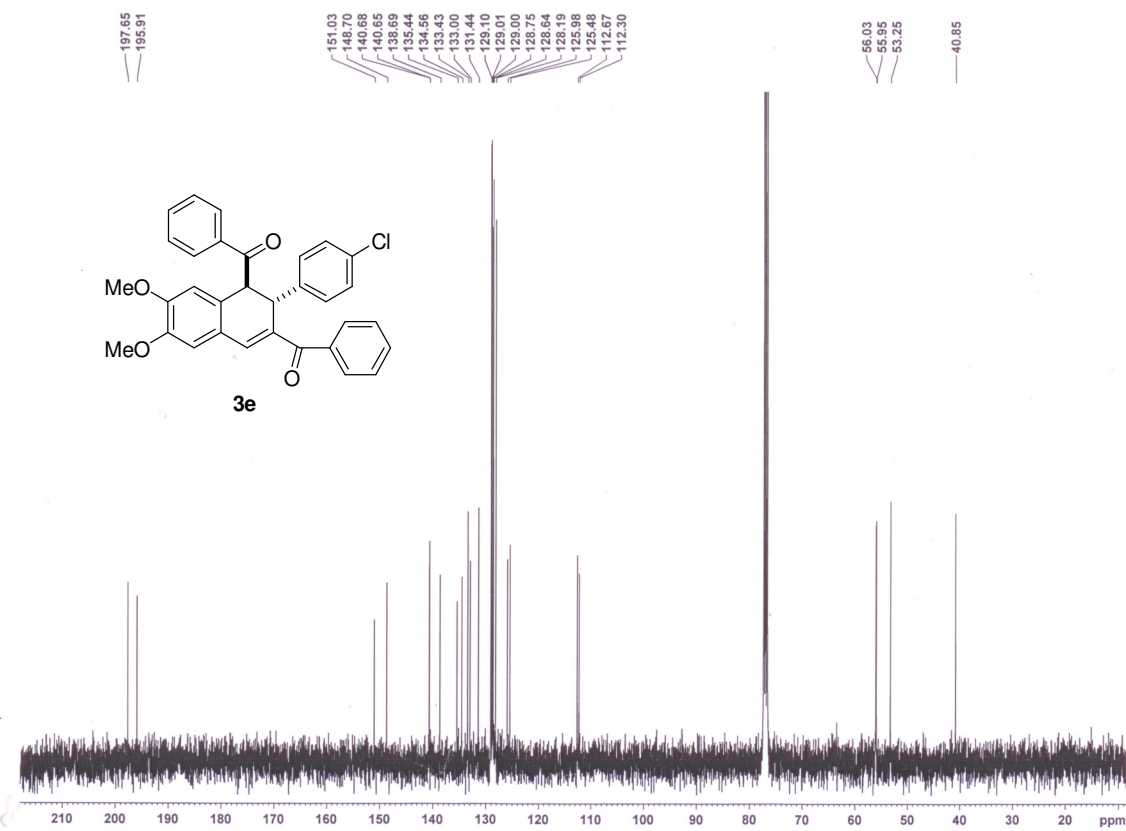


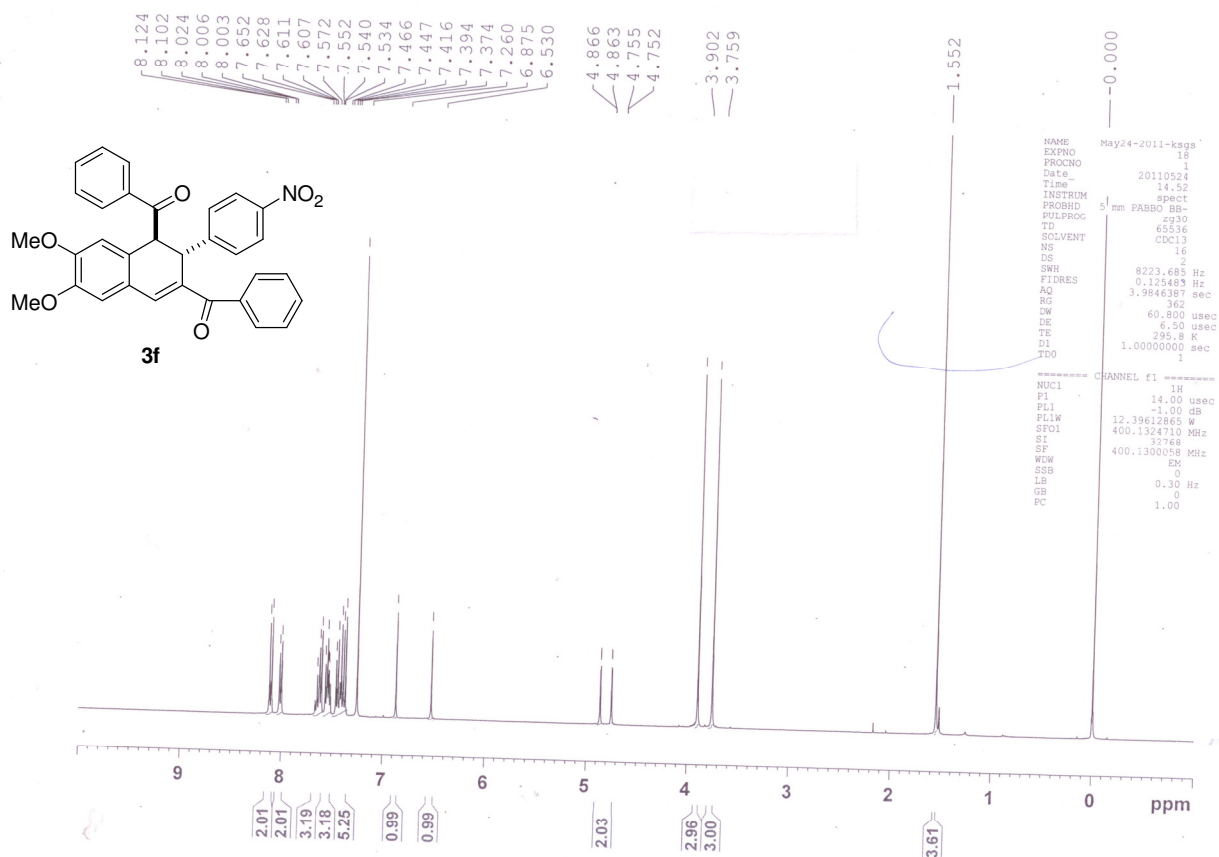


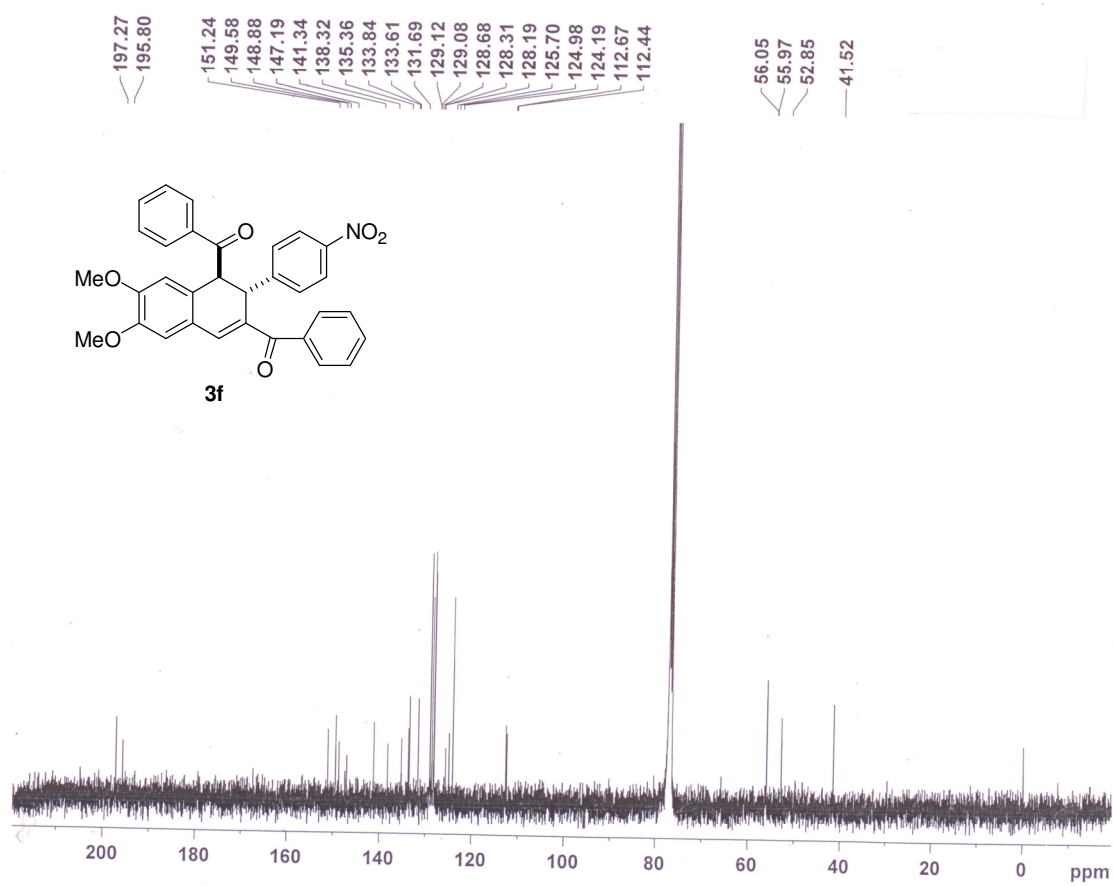


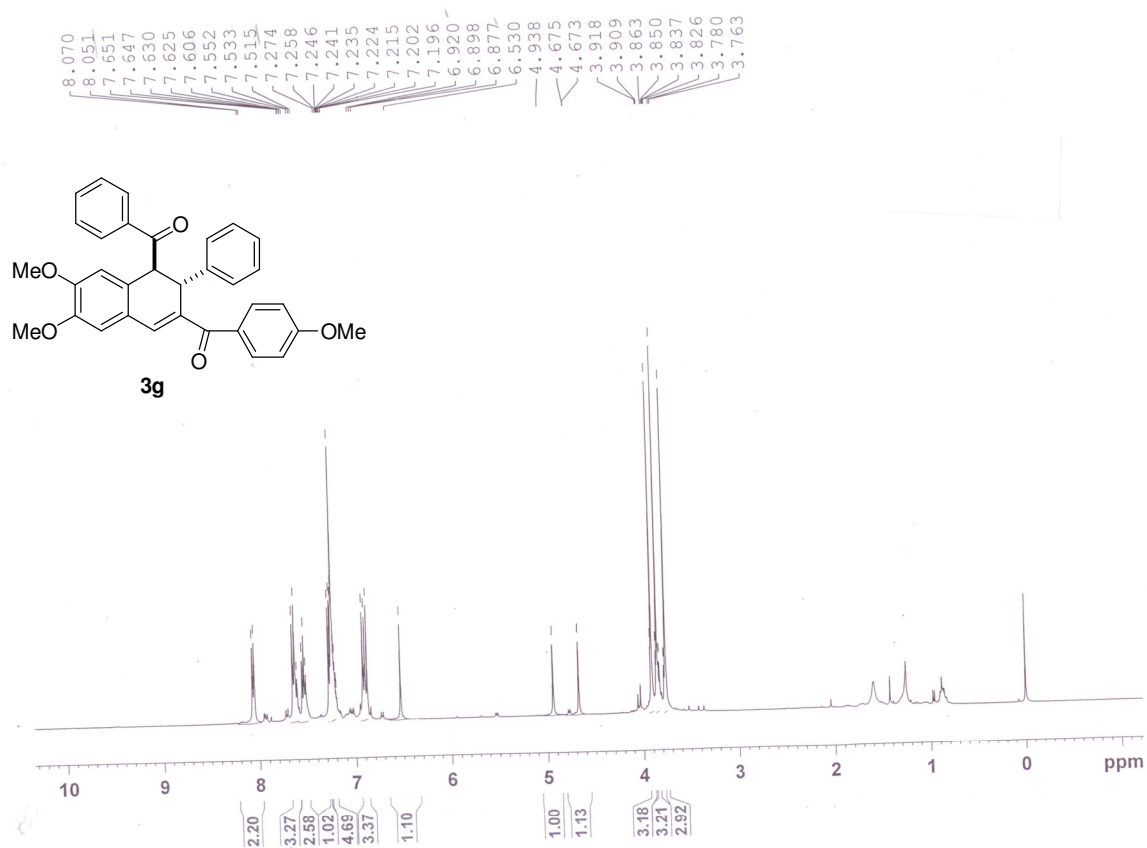


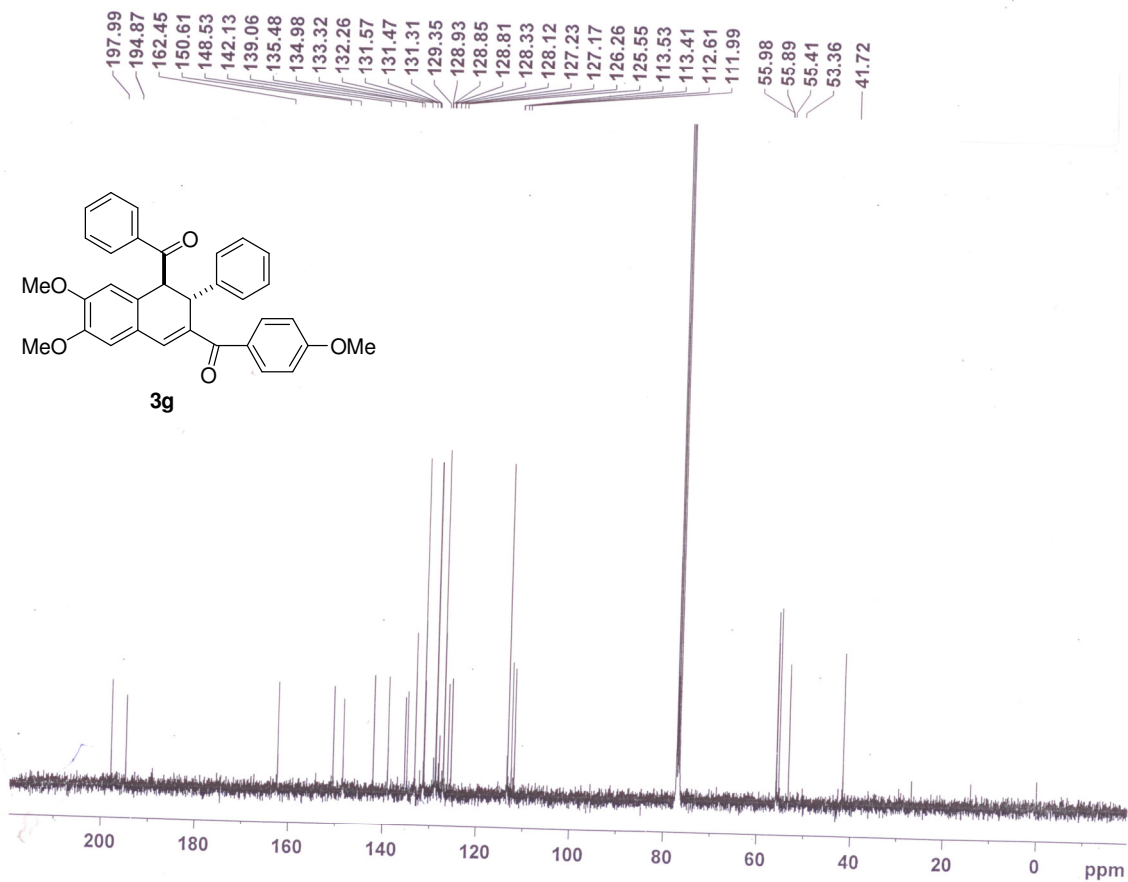


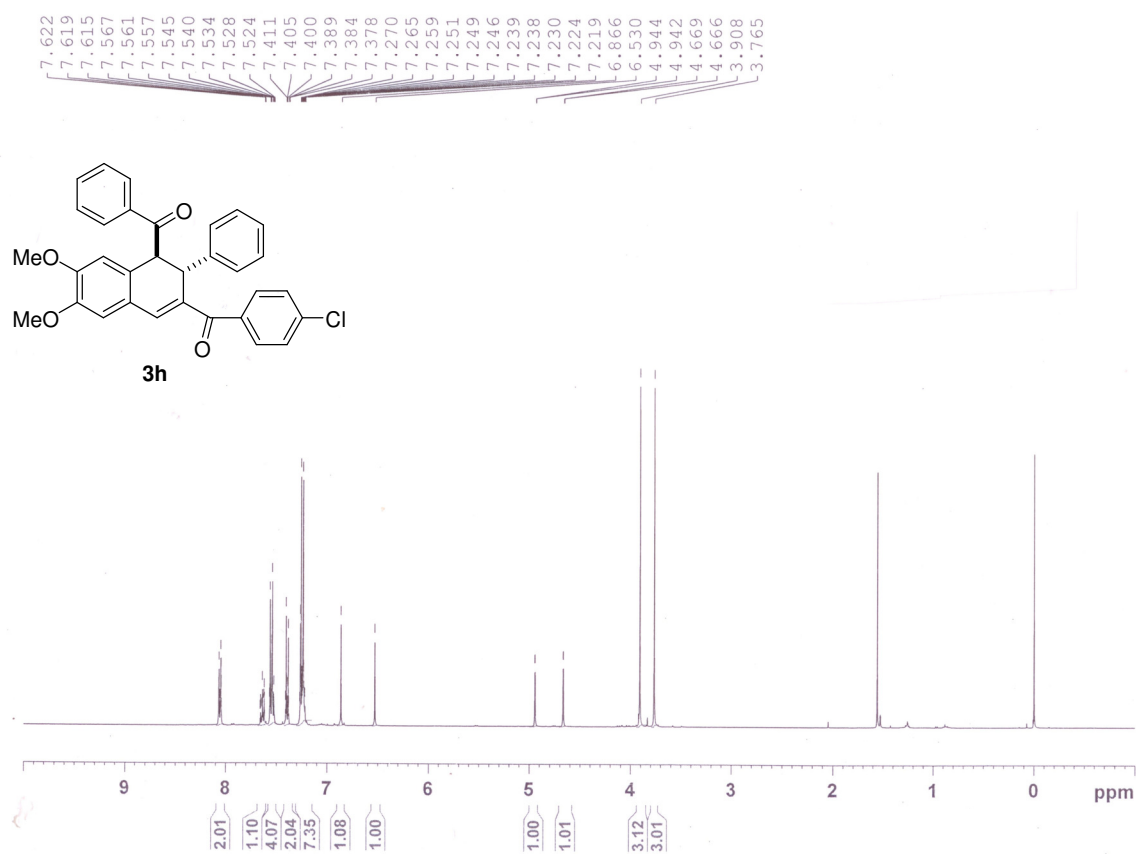


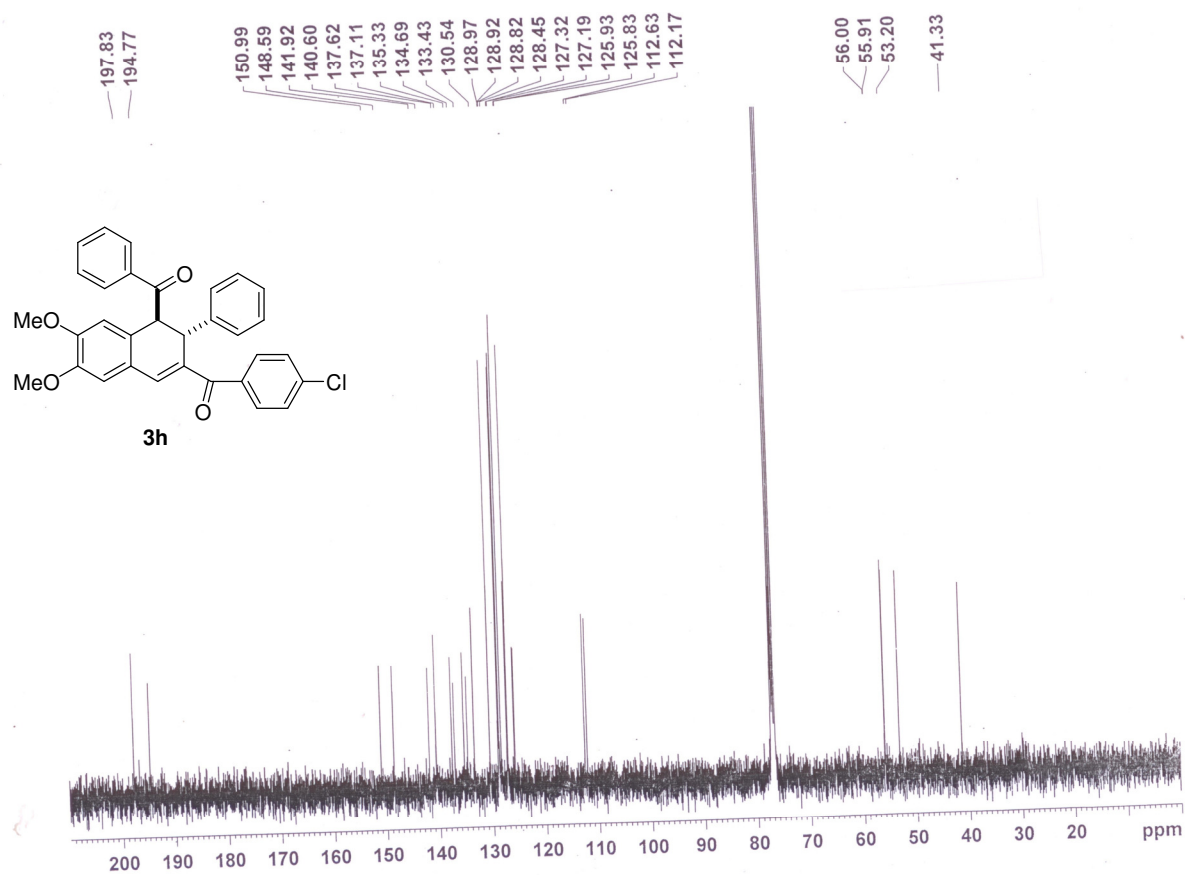


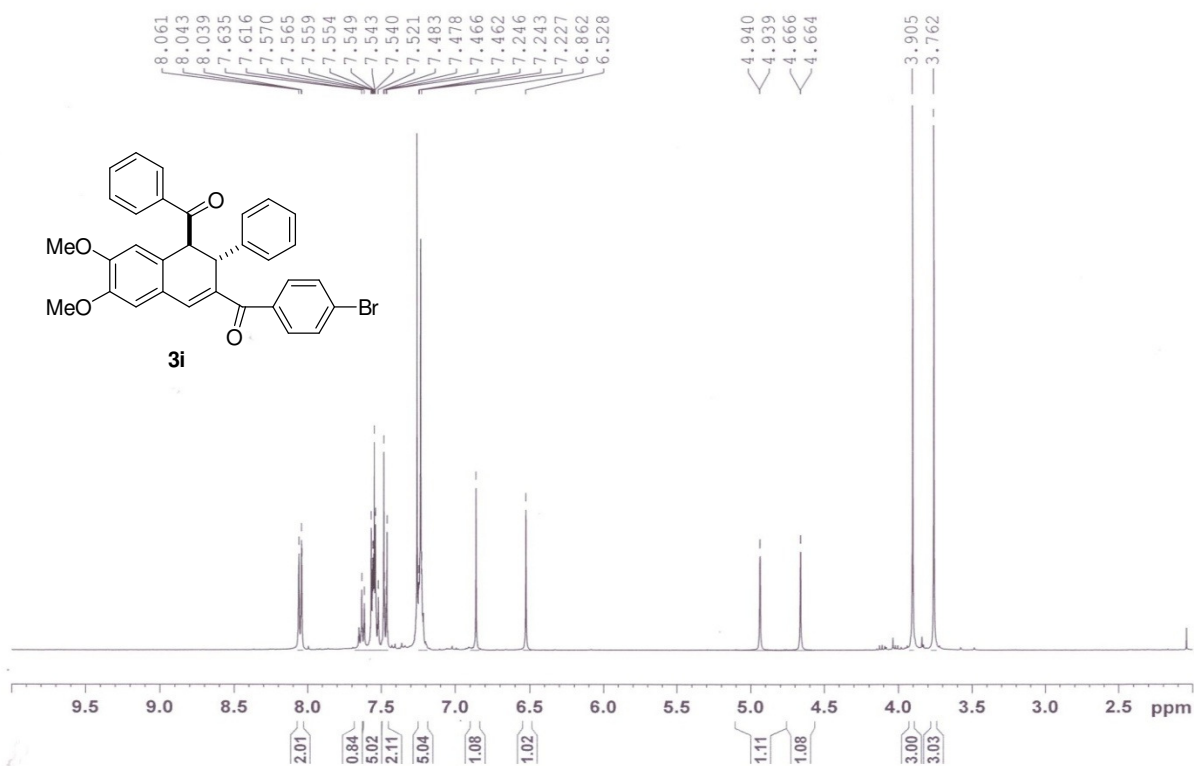


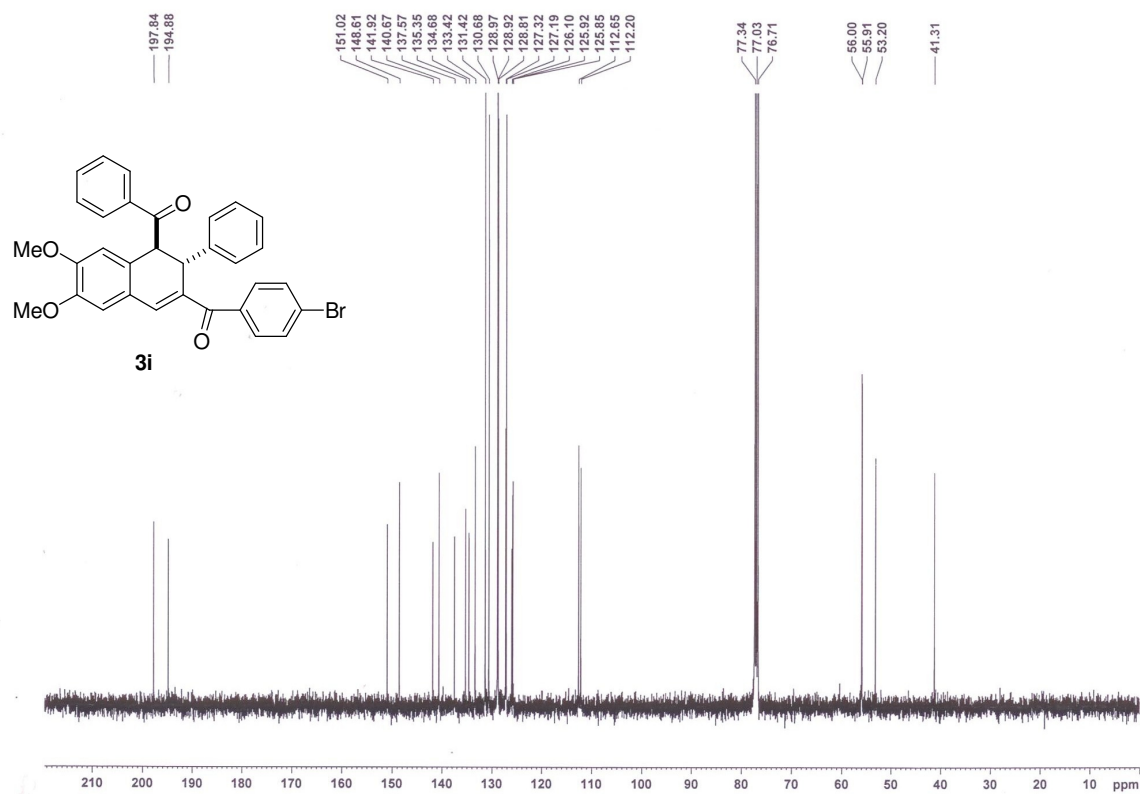


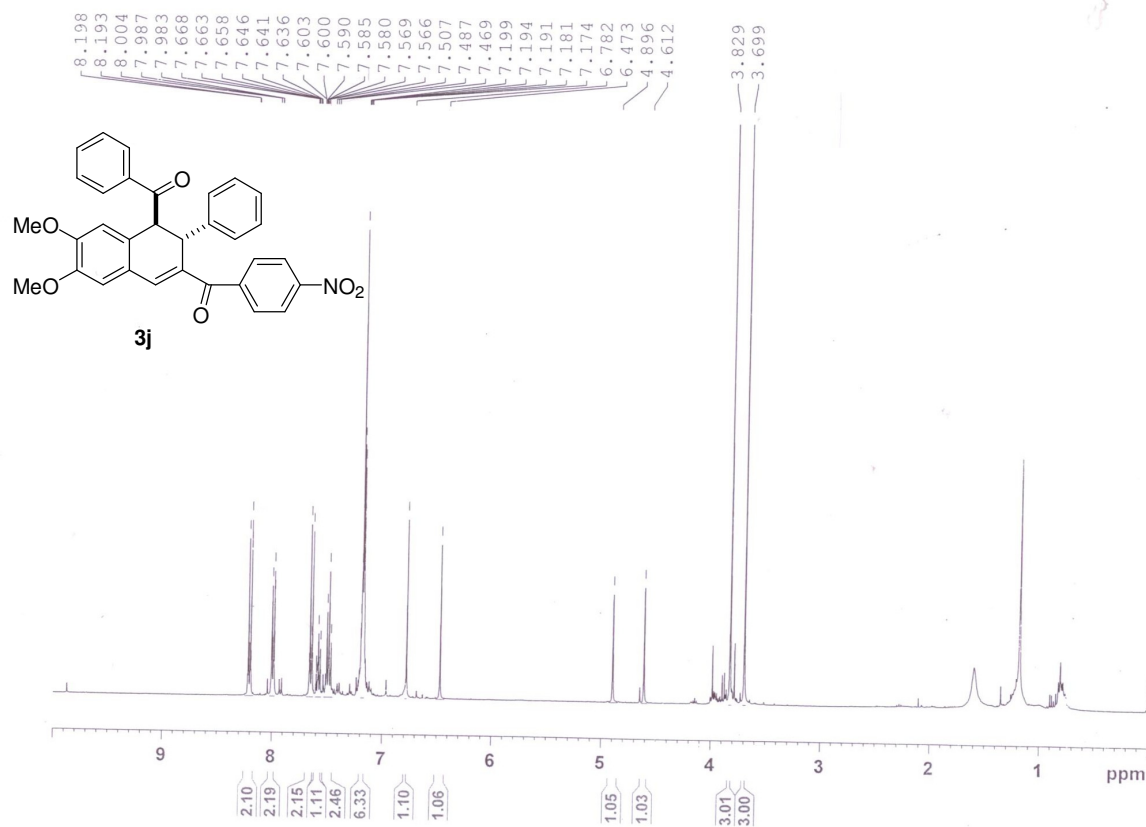


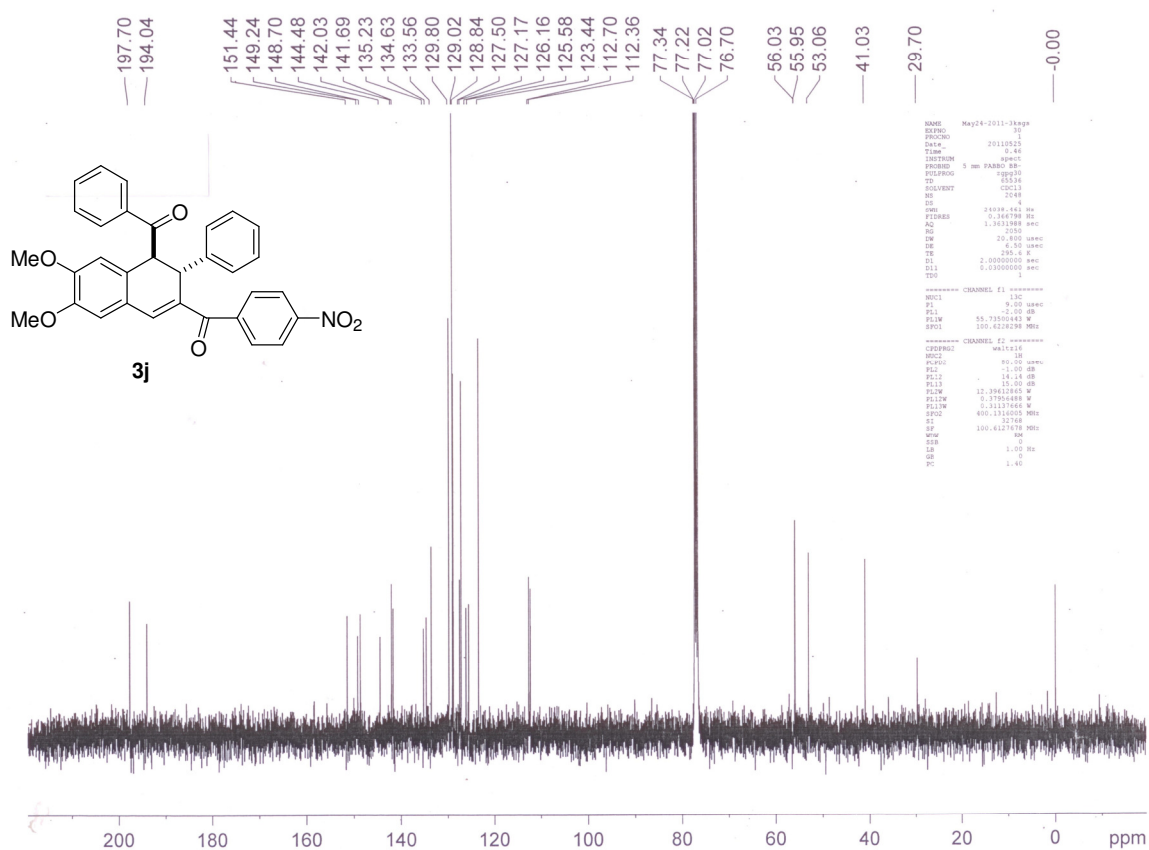


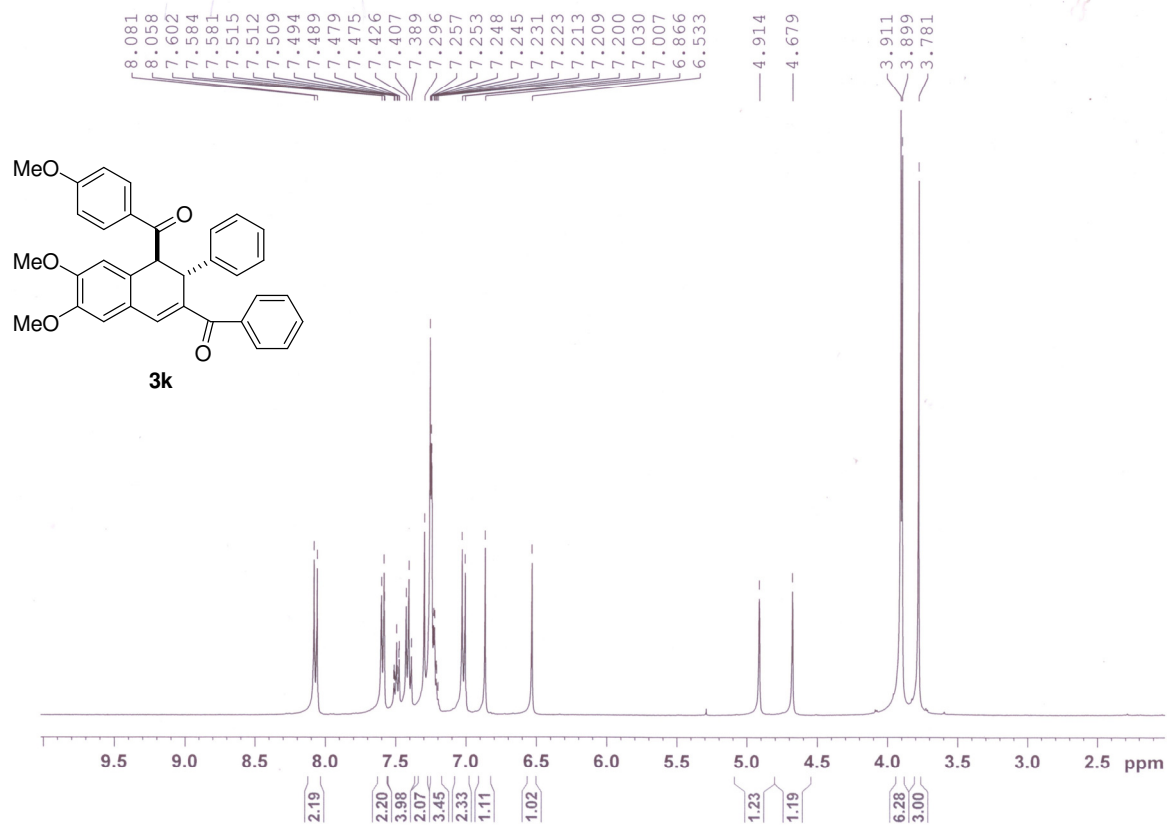


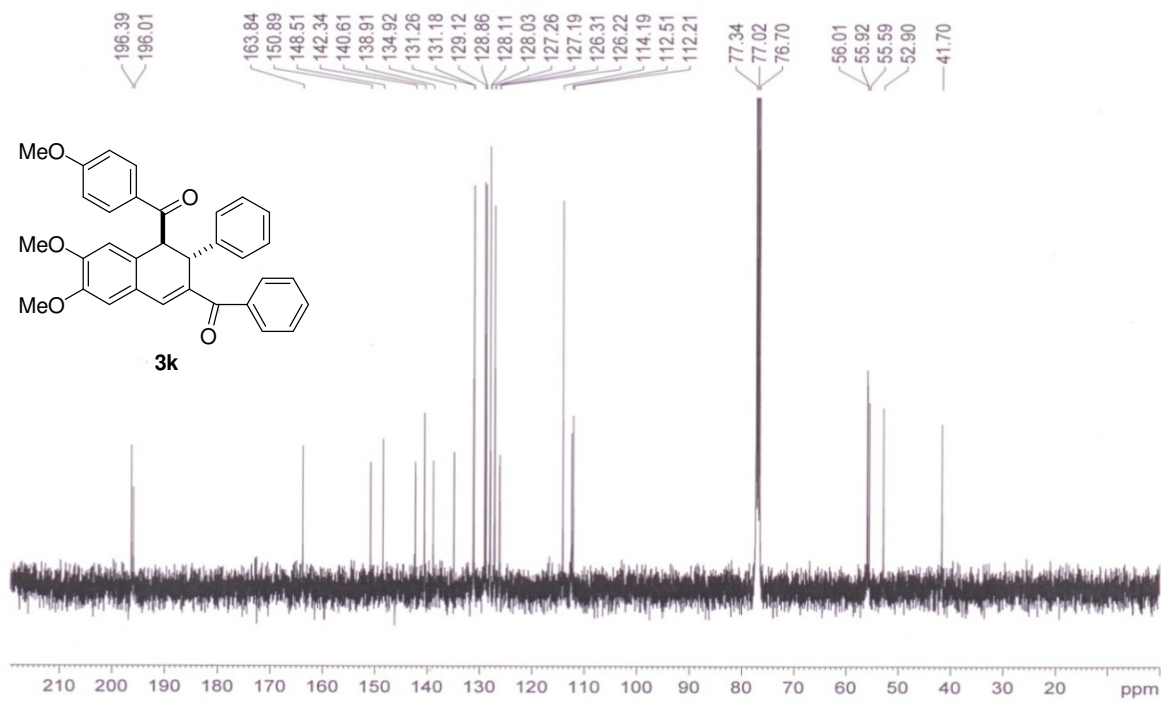


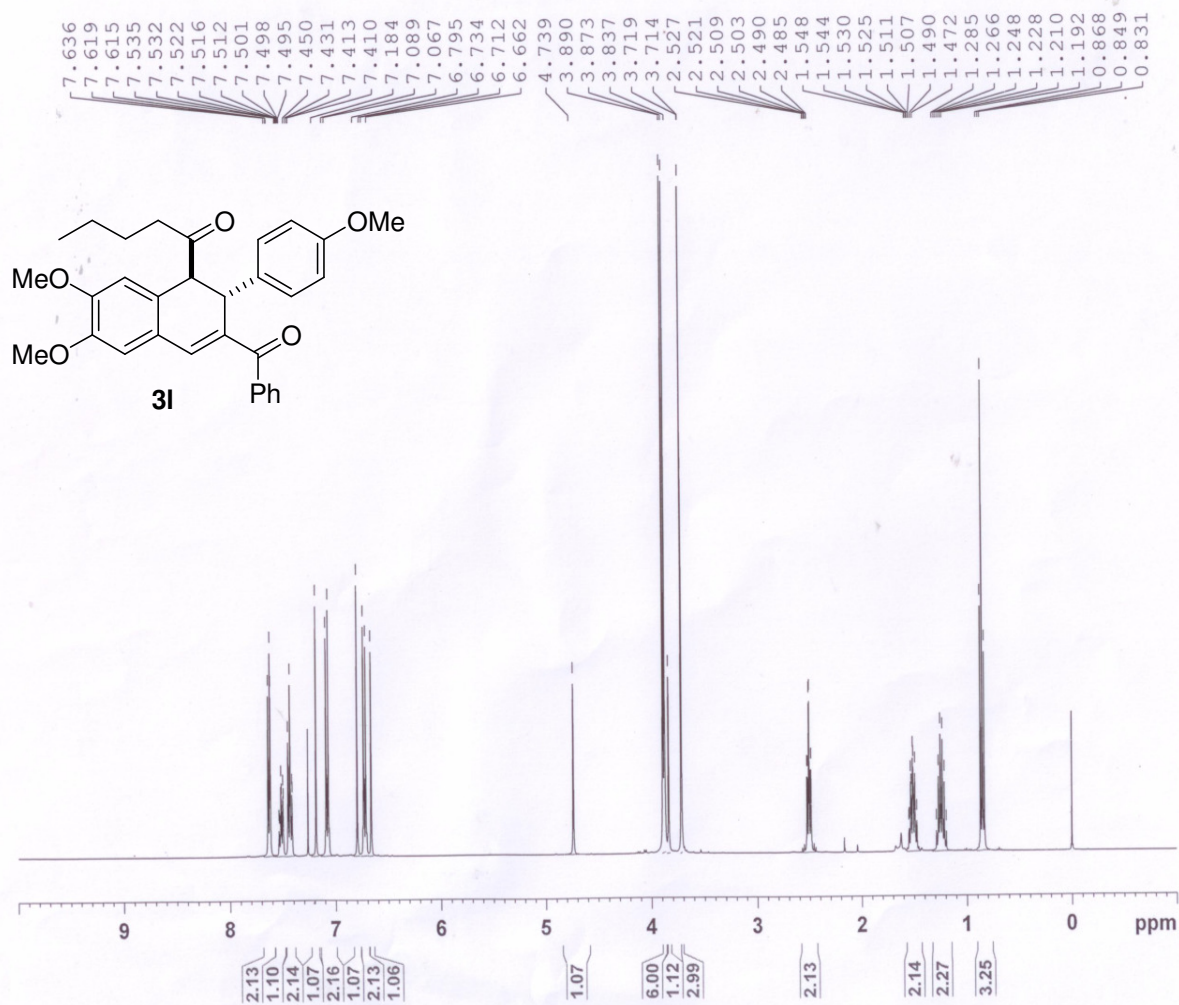


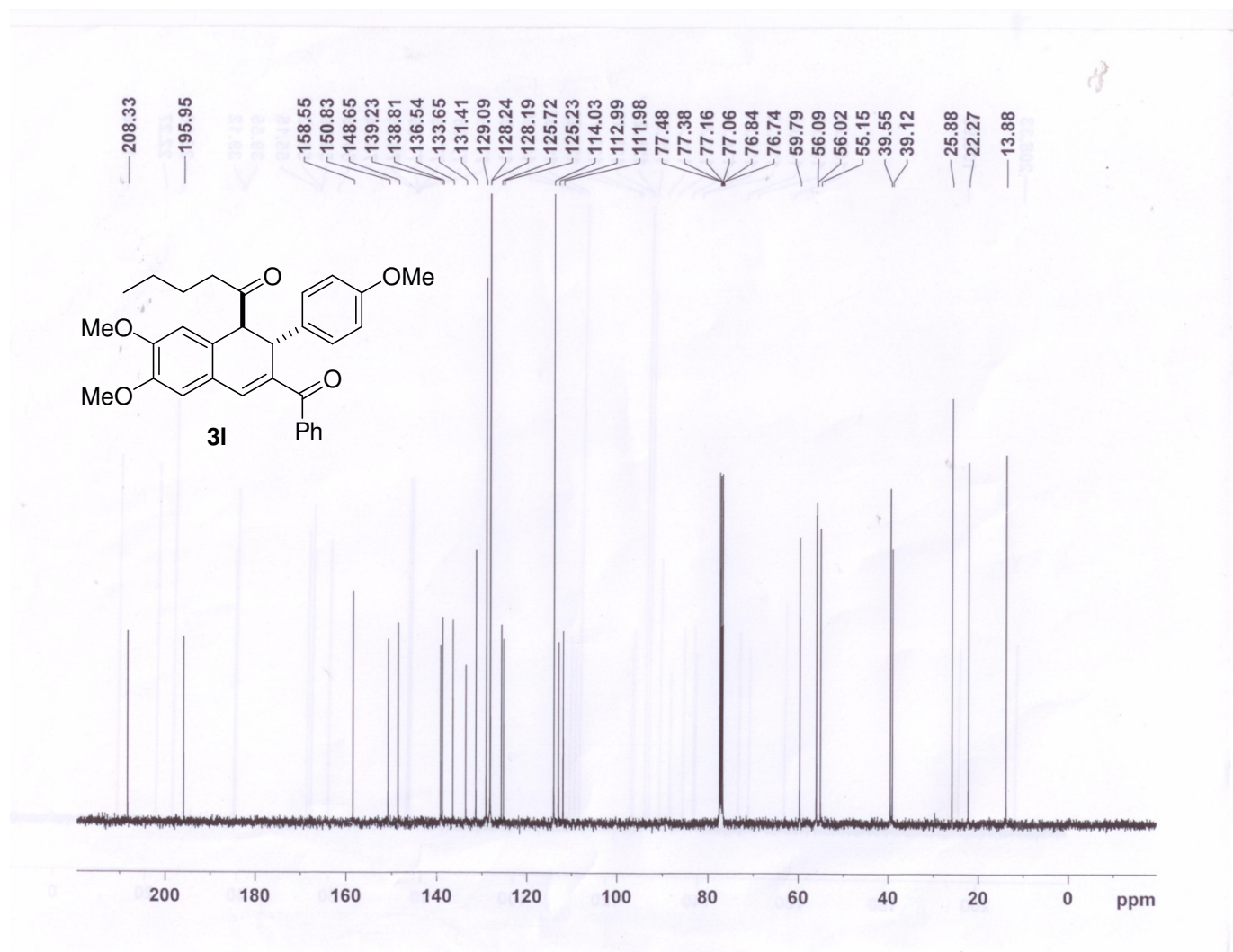


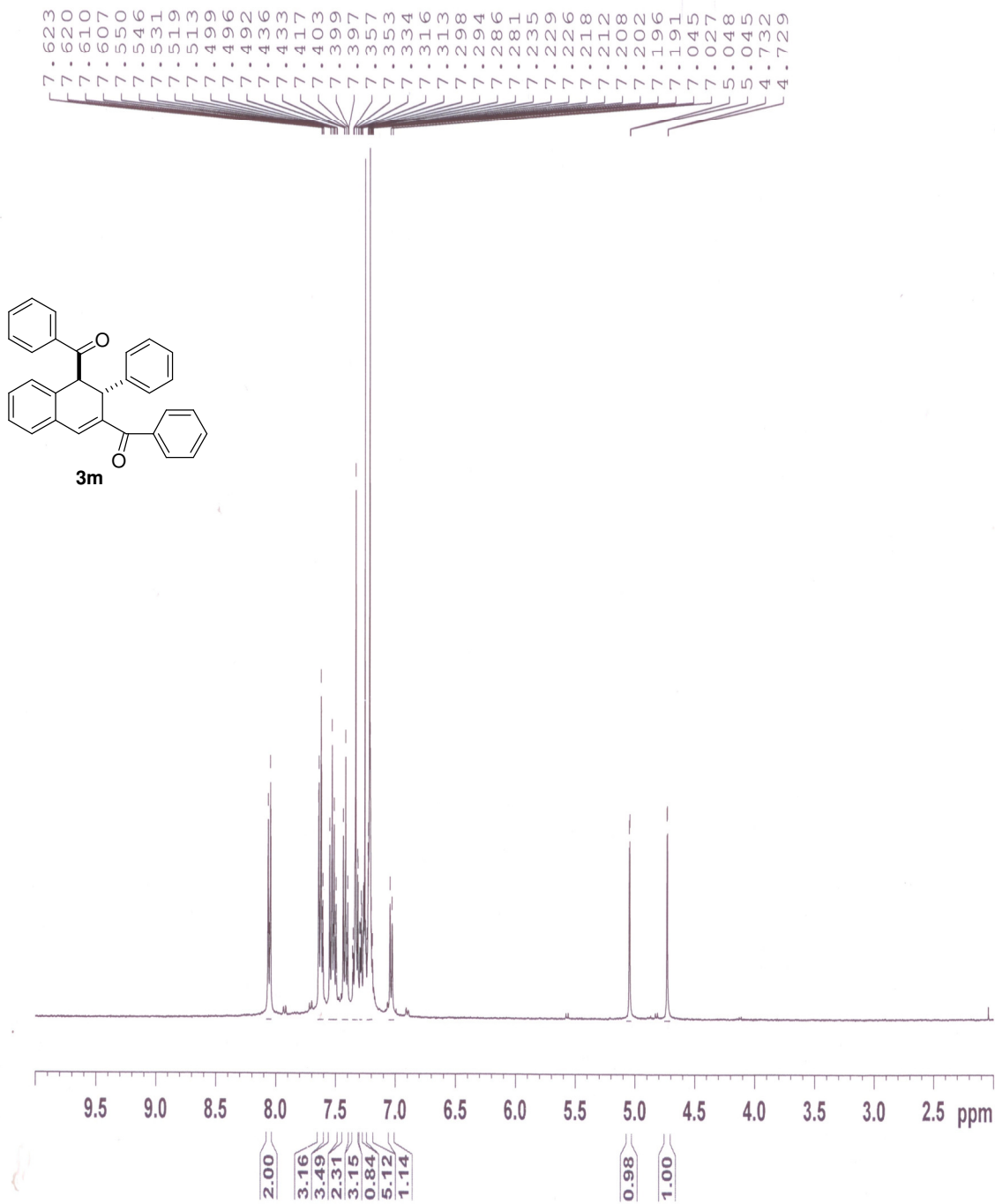


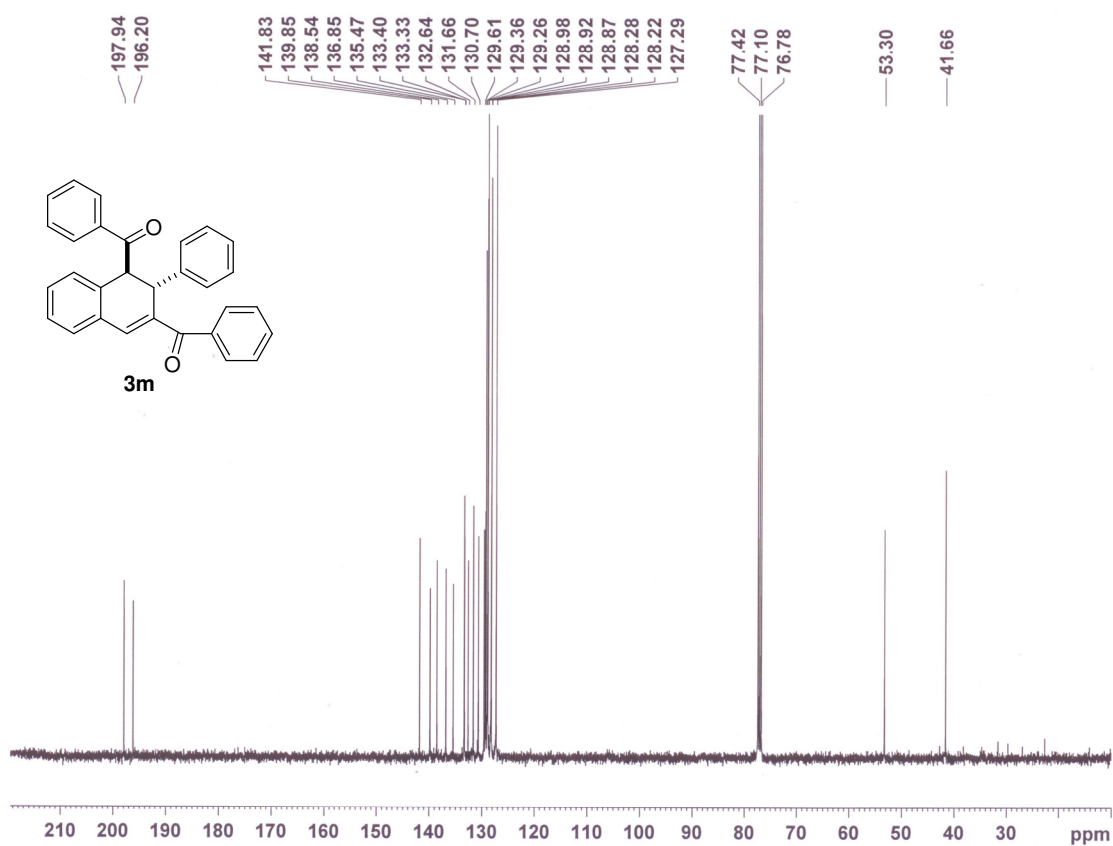


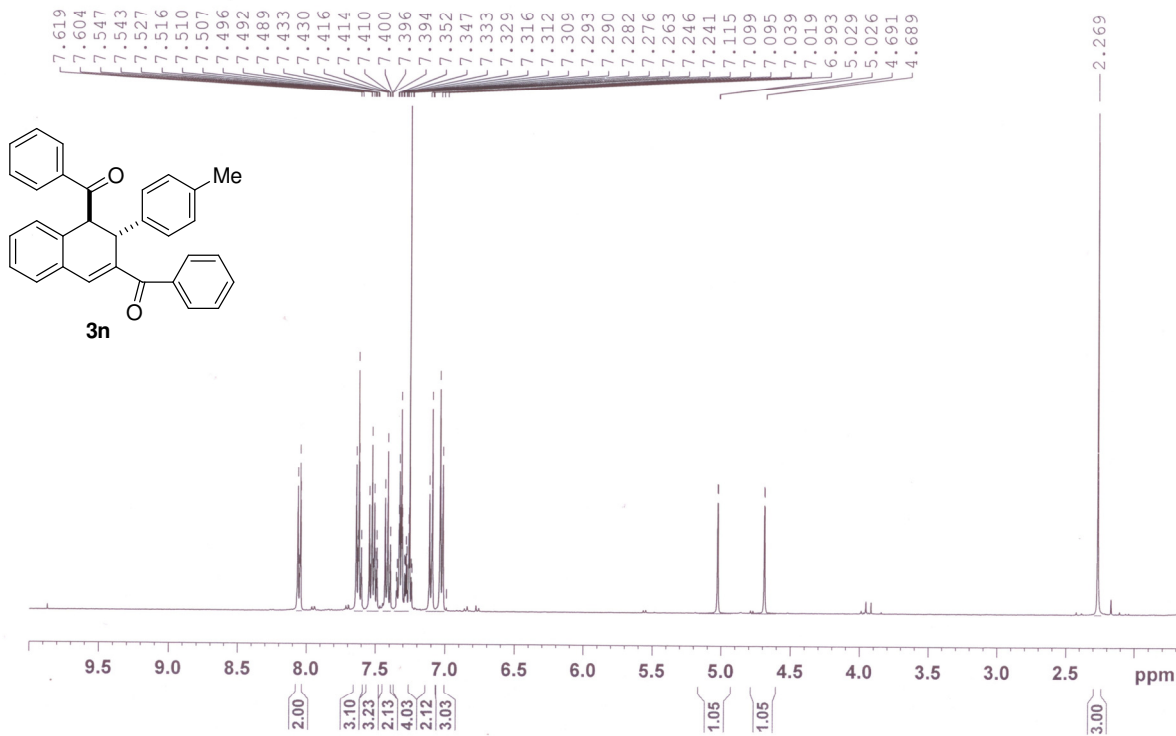


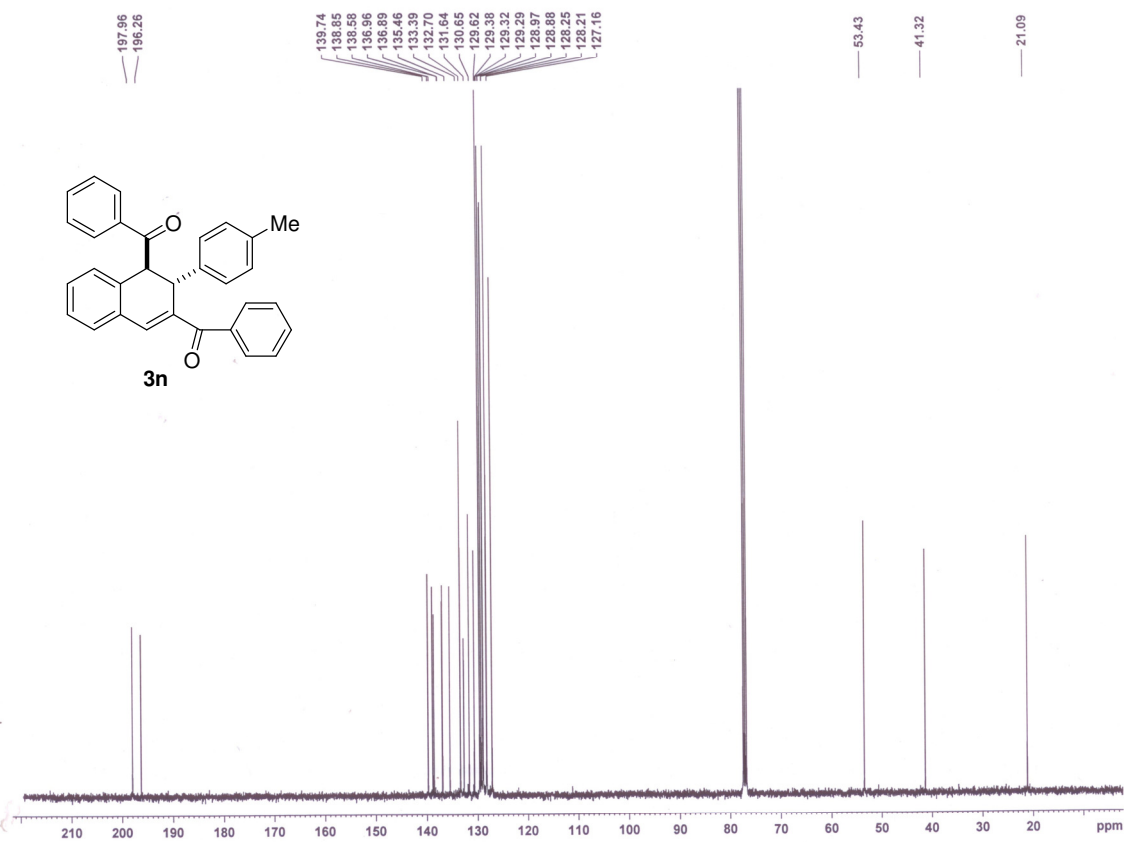


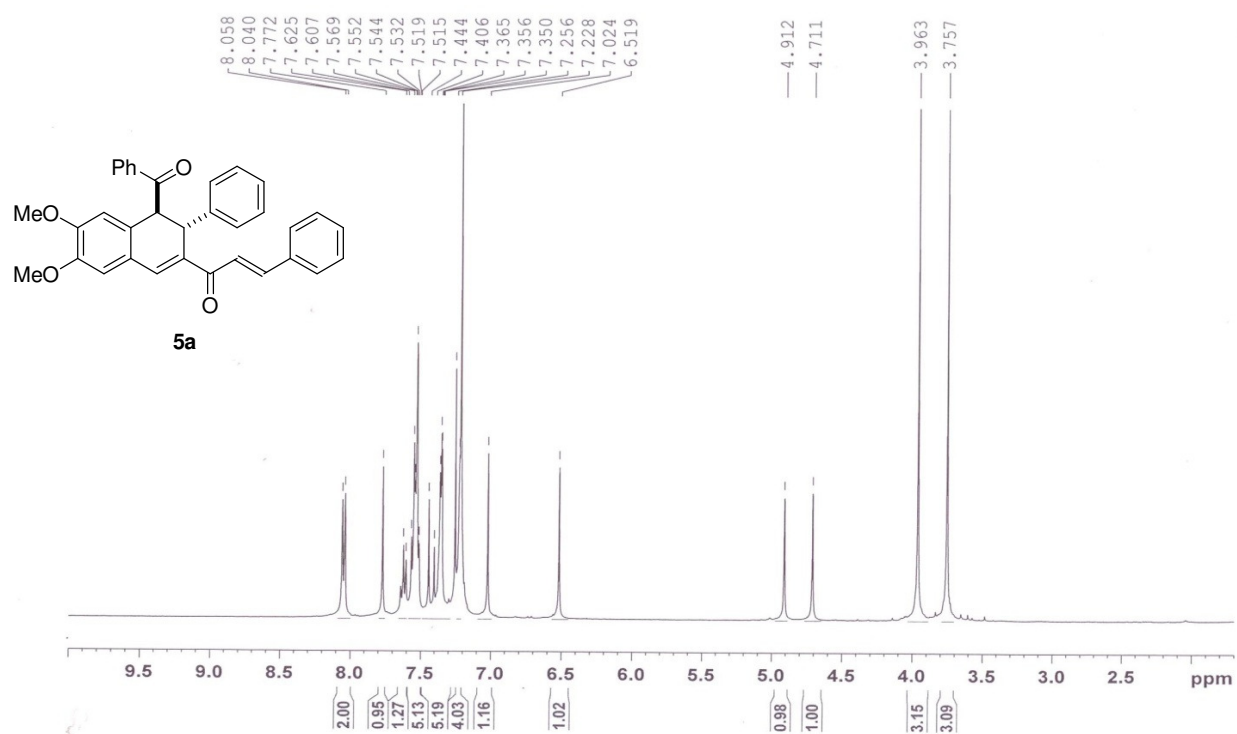


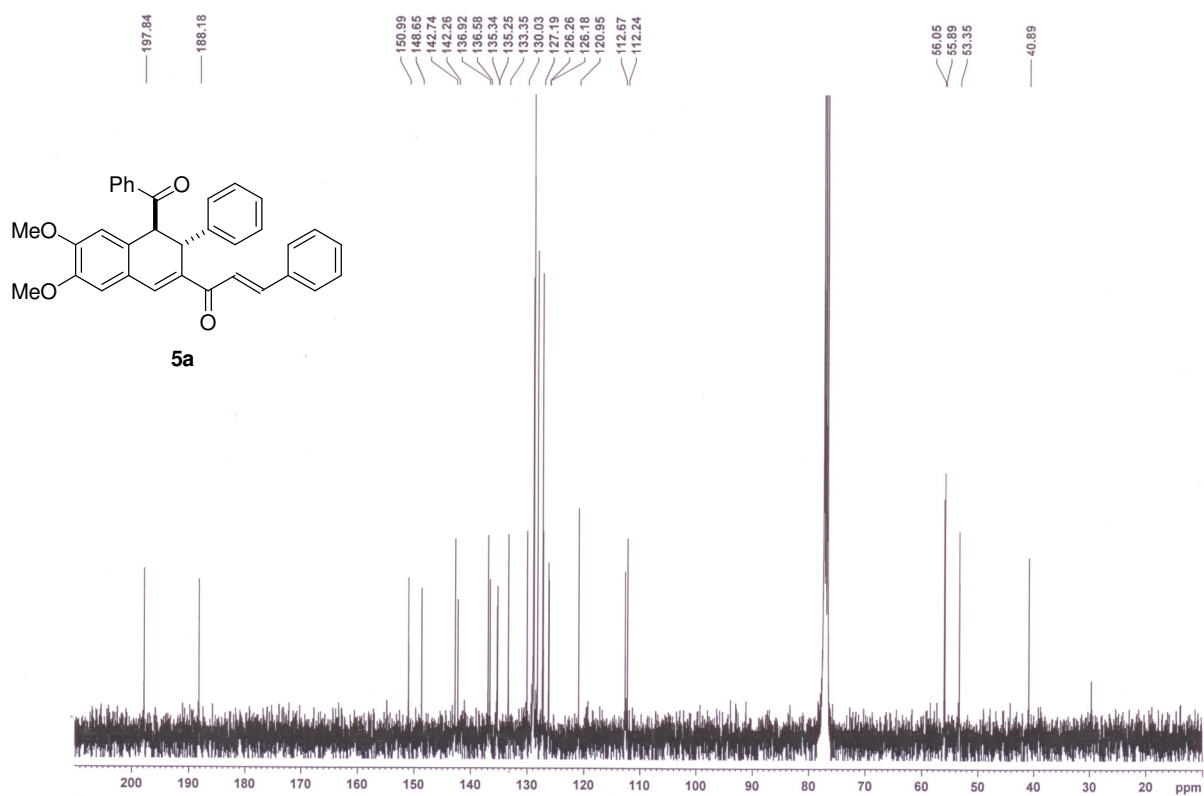


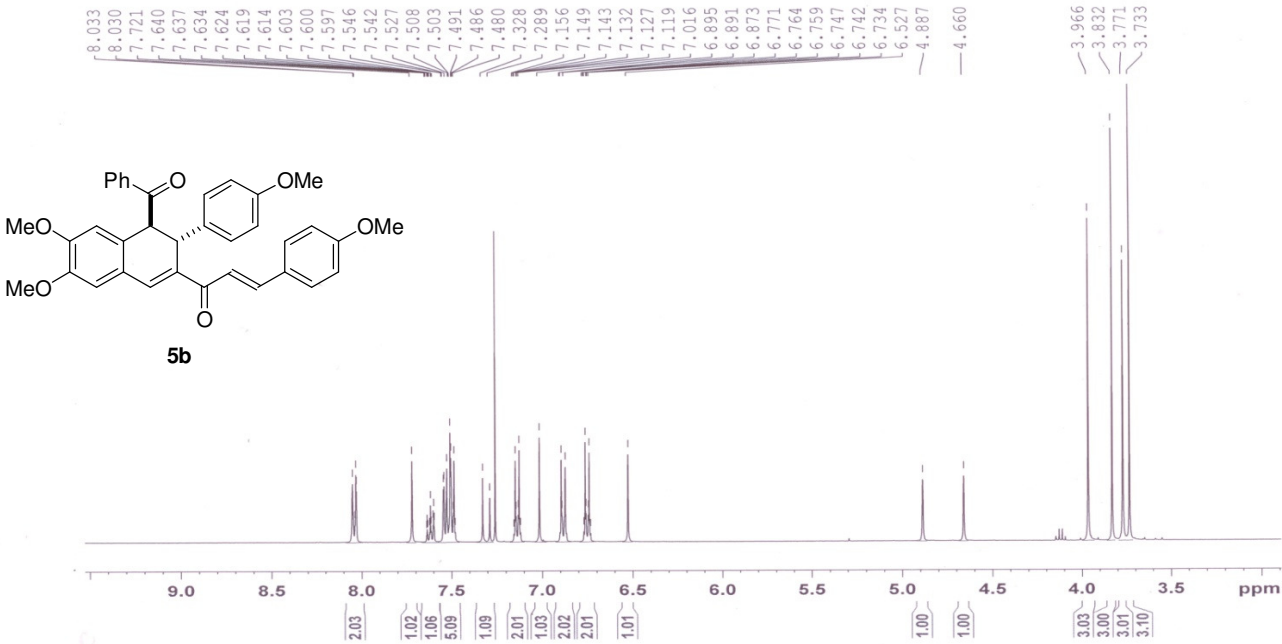


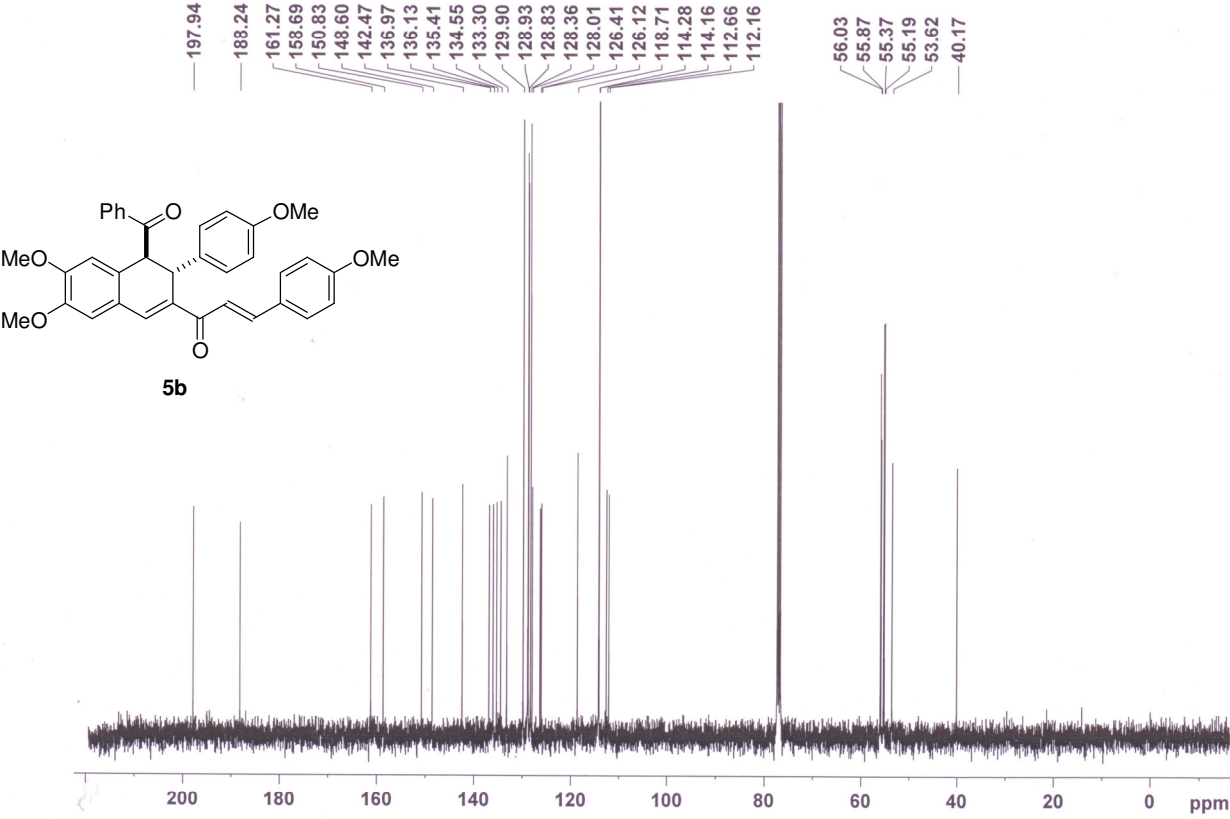


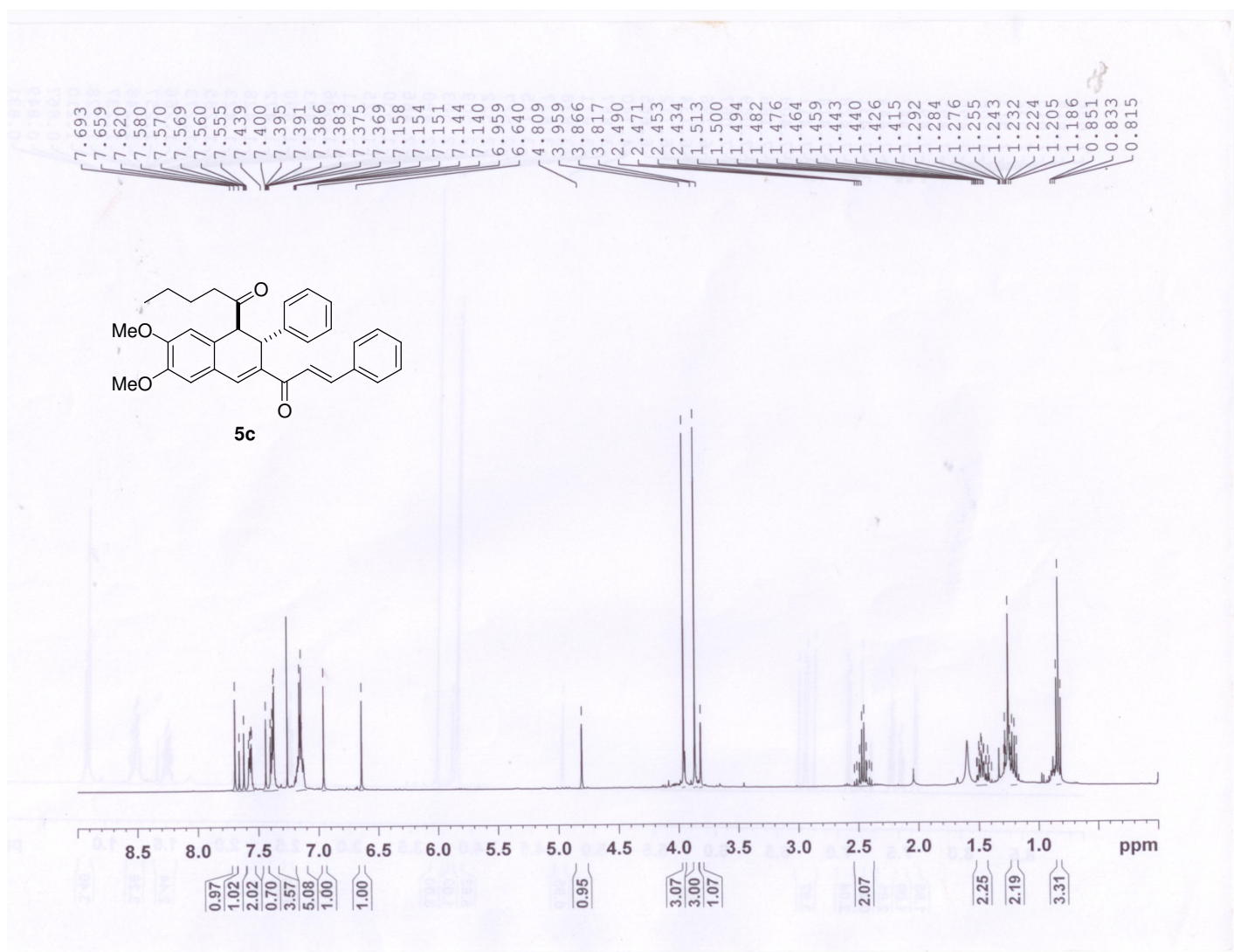


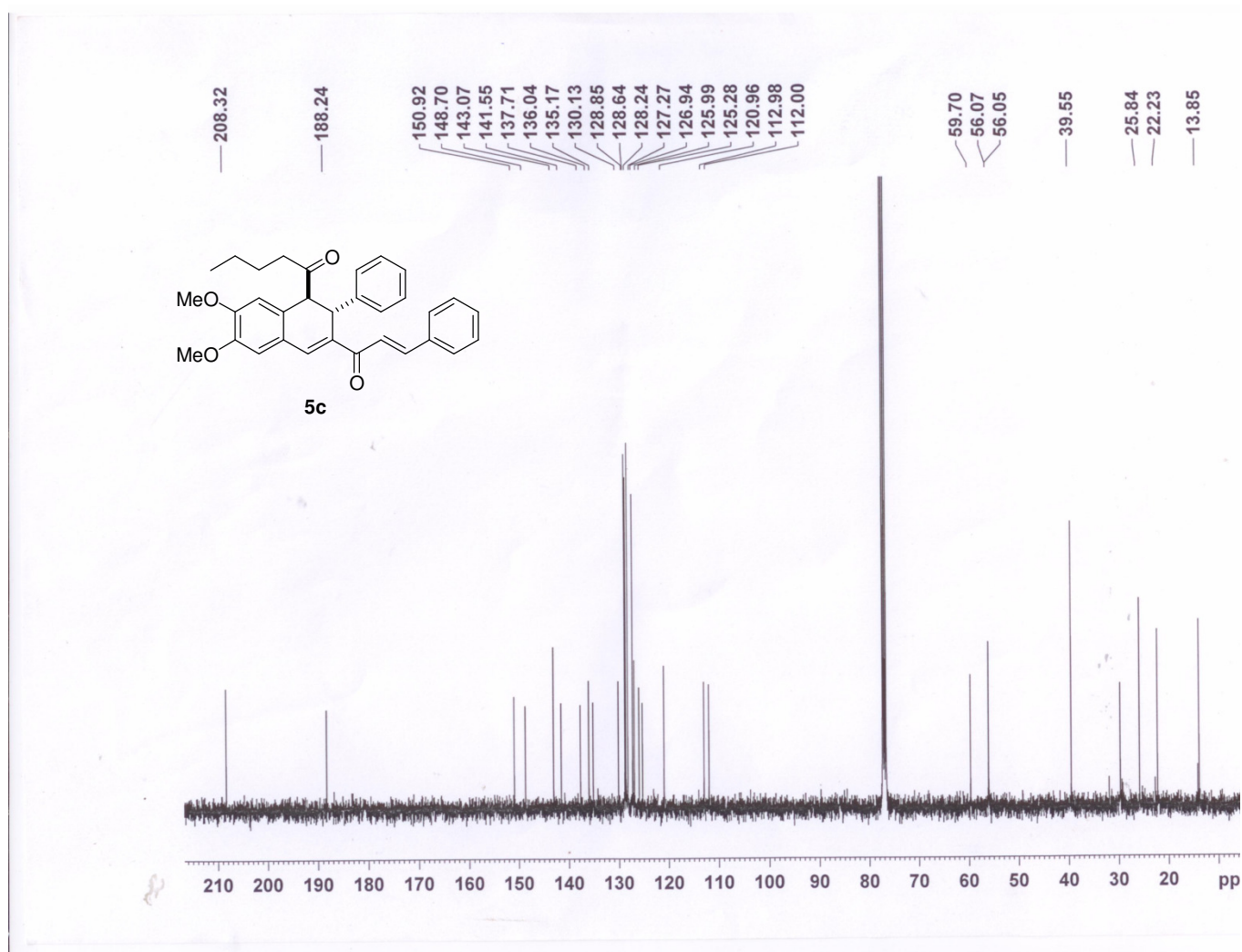












Computation details and optimised geometries of transition states TS-1 and TS-2:

The Density Functional Theory (DFT) calculation was performed using the Gaussian 03 package. The level of approximation used was B3LYP with a basis set LanL2DZ in dichloroethane medium. The electronic energy of TS-1 is – 3026.85489823 a.u. and that of TS-2 is – 3026.79516153 a.u. This implies that **TS-1** is 37.4856 kcal mol^{–1} more stable than **TS-2**.

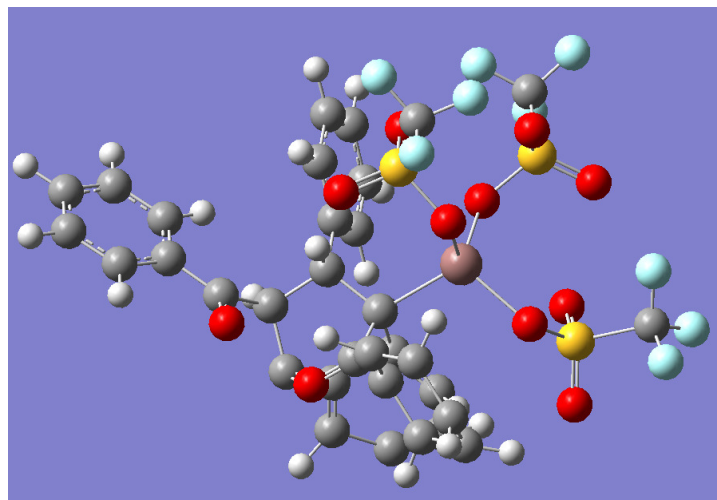


Figure 1. The optimised geometry of **TS-1**

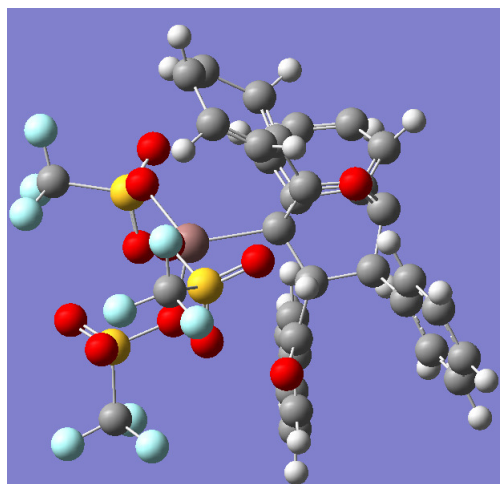


Figure 2. The optimised geometry of **TS-2**