

Supplementary Material

Expedient synthesis of [5,5]- and [6,5]-benzannulated spiroketals from 1,1-diacyl-2-vinyl cyclopropanes

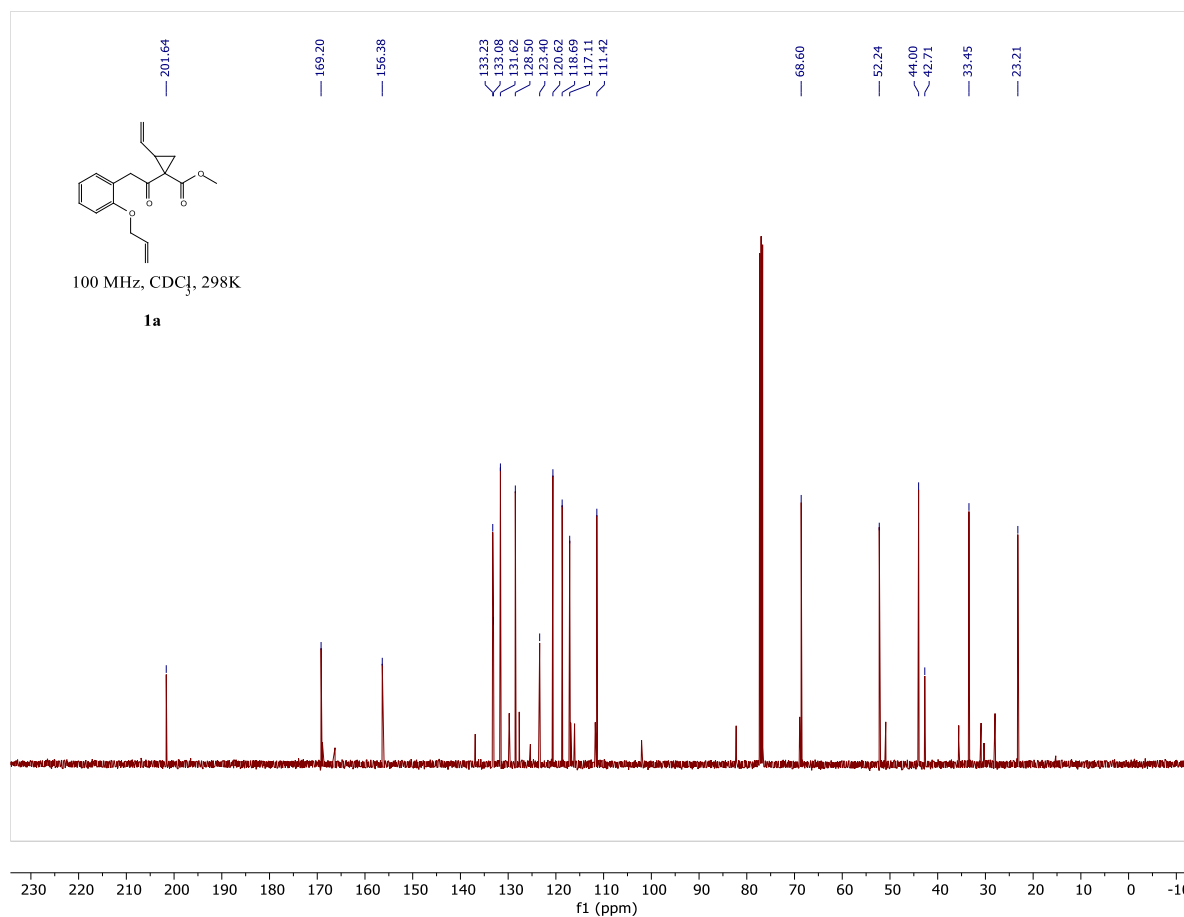
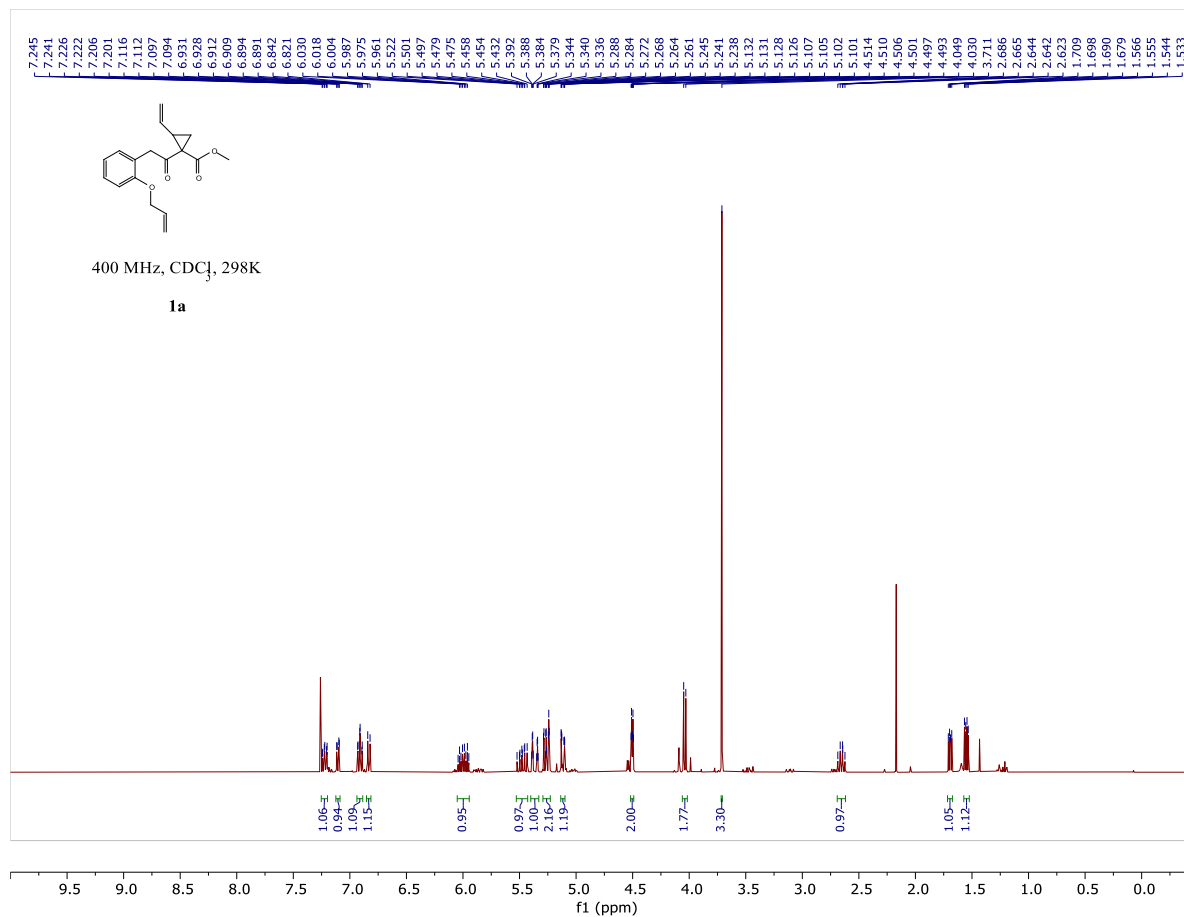
Sinan Gai, Holly D. Guilder, and Bill C. Hawkins

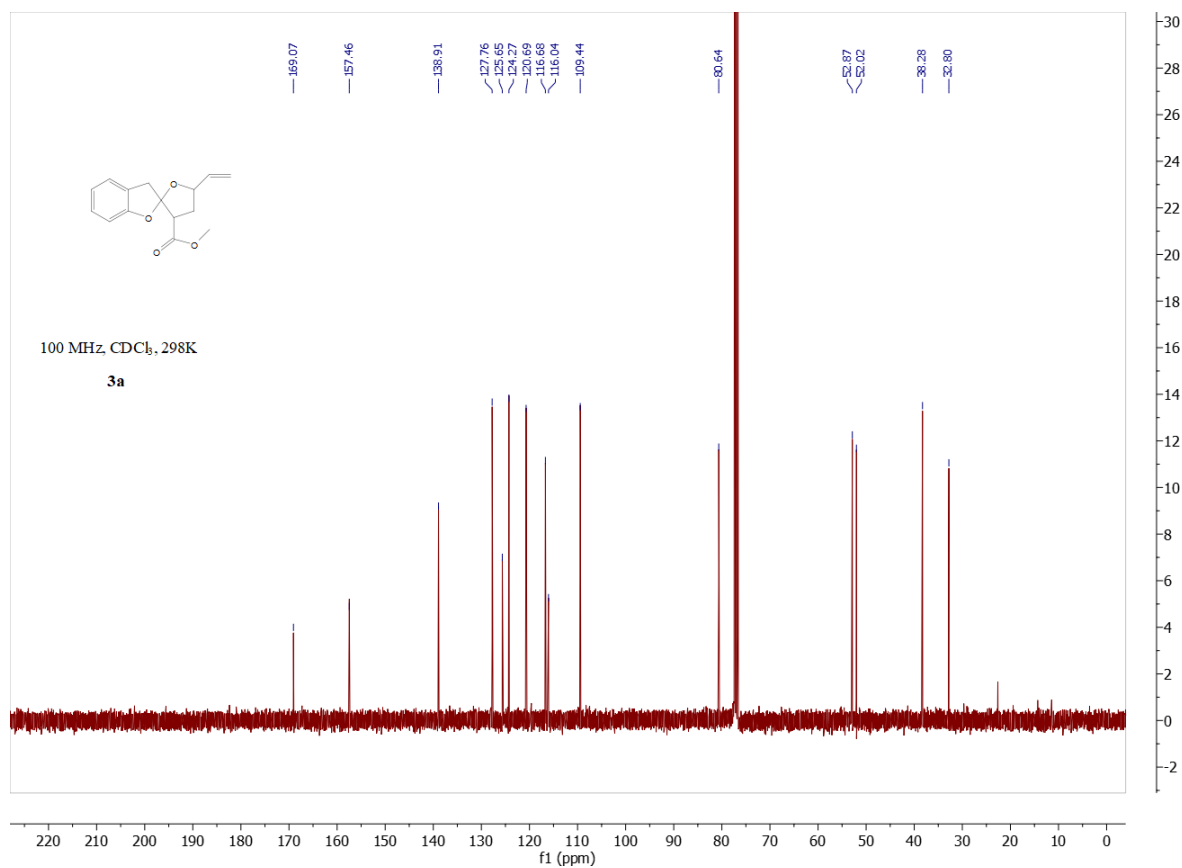
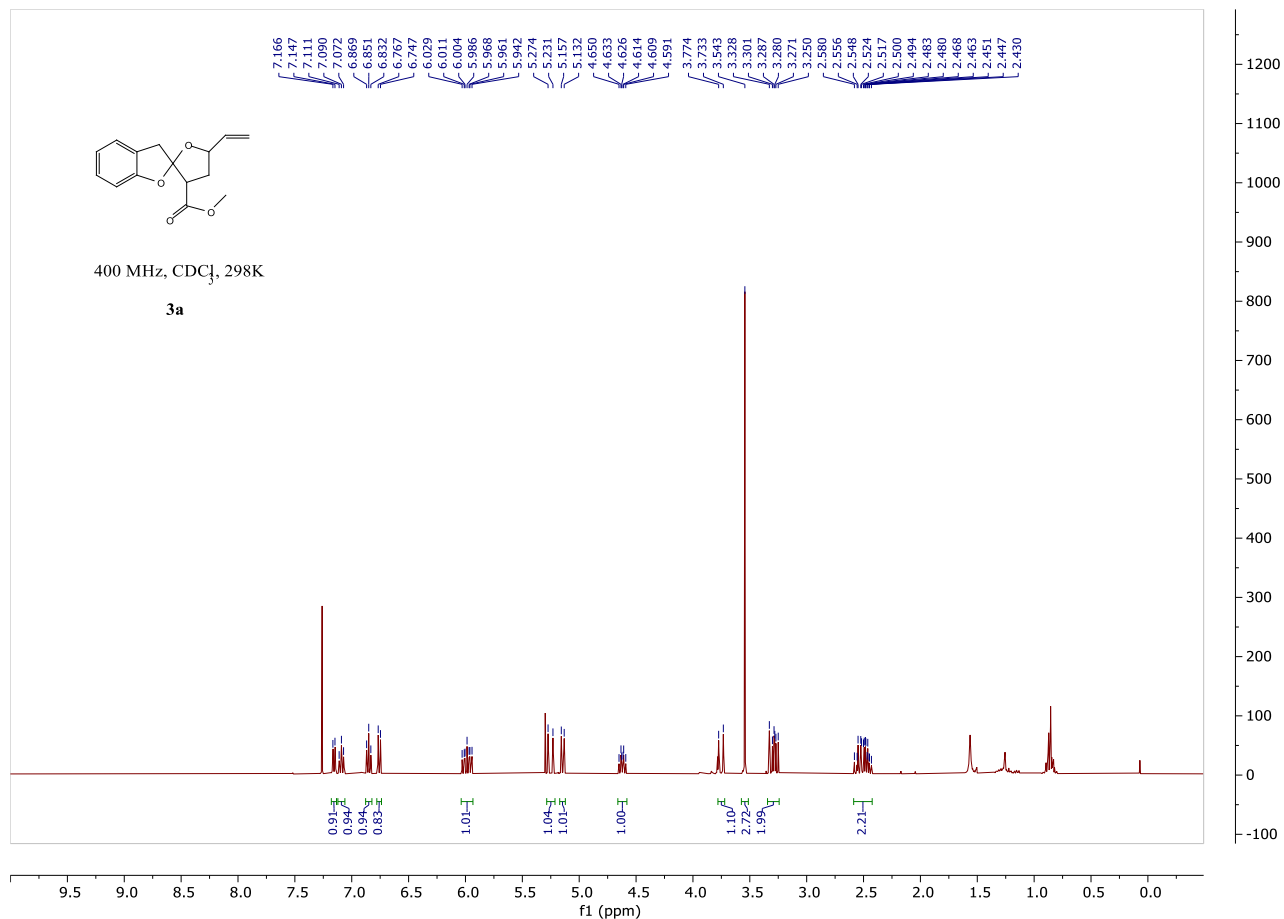
Department of Chemistry, University of Otago, PO Box 56, Dunedin, New Zealand

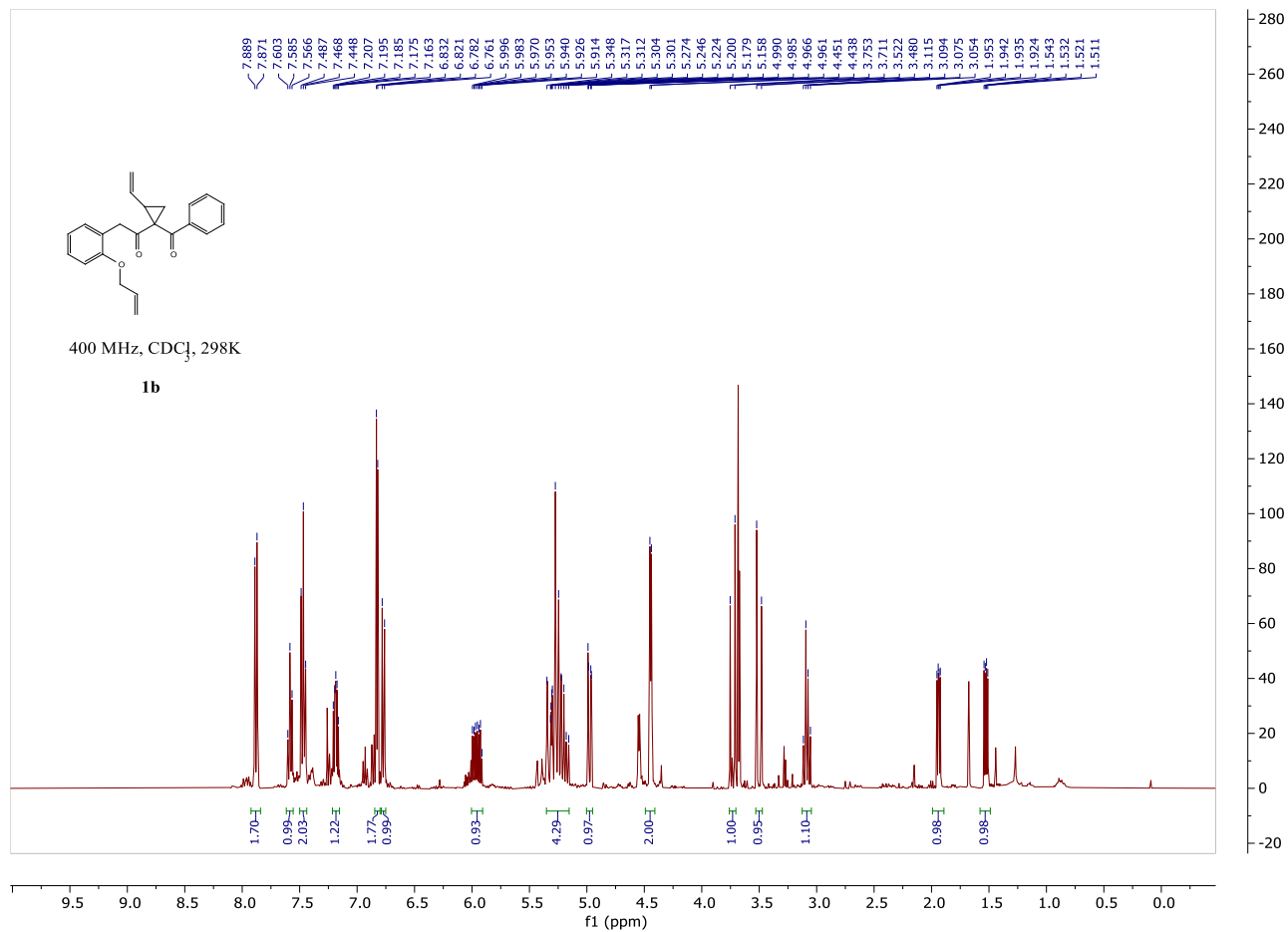
Email: bhawkins@chemistry.otago.ac.nz

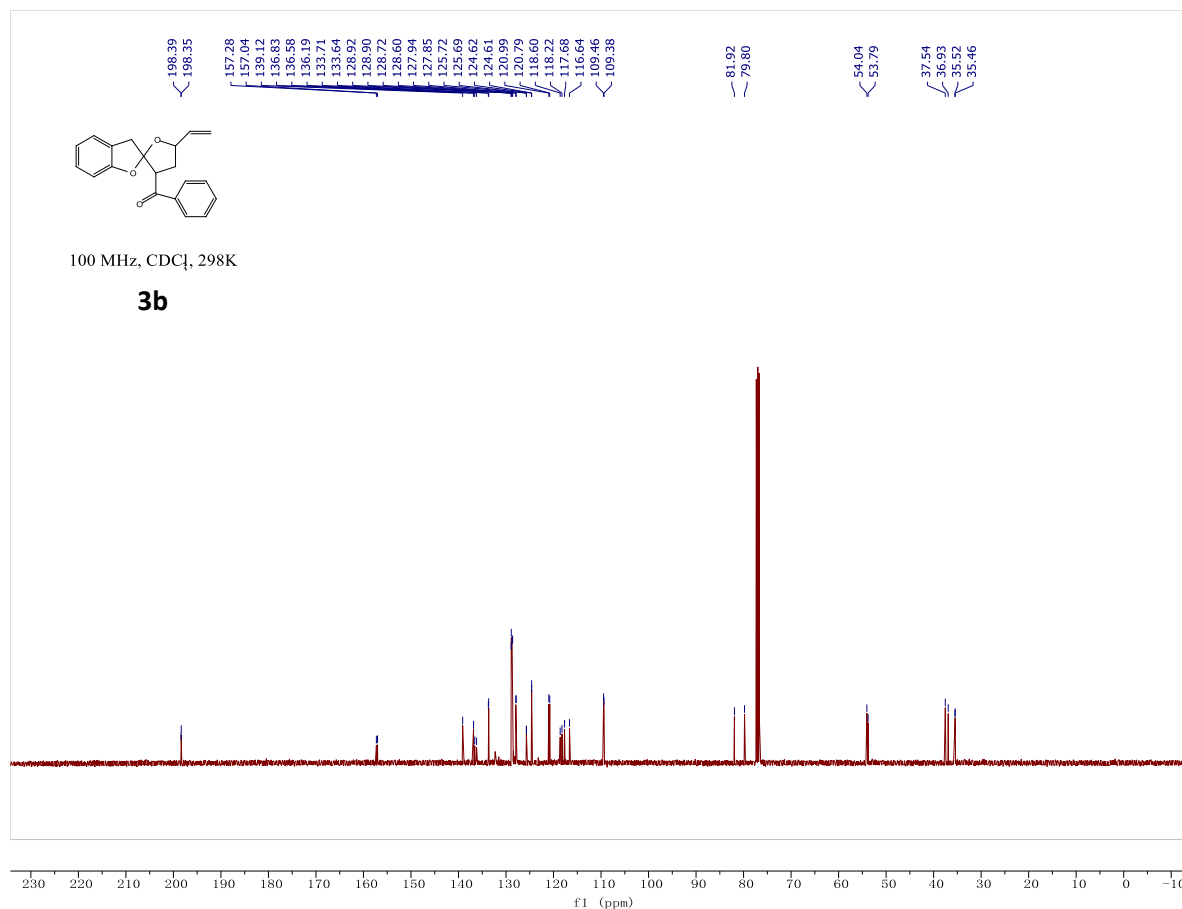
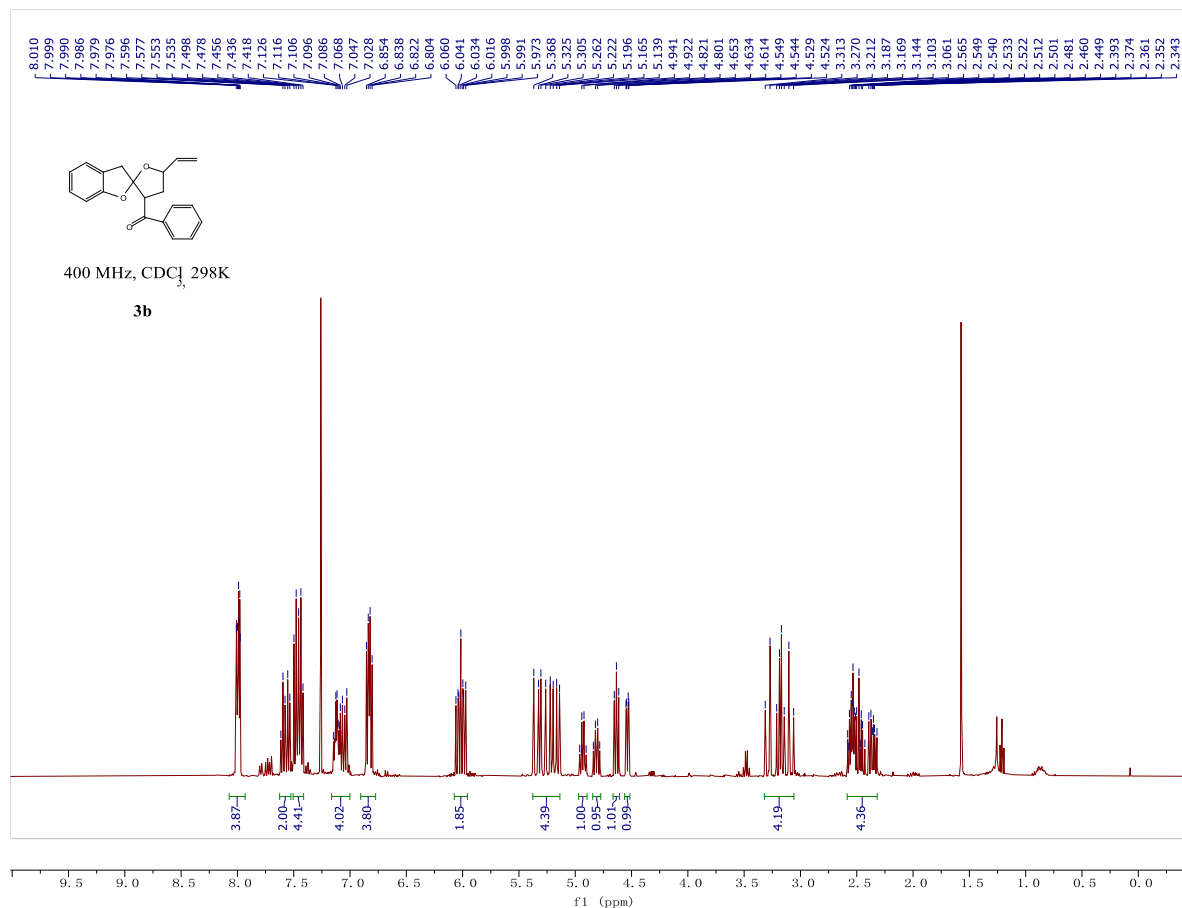
Table of Contents

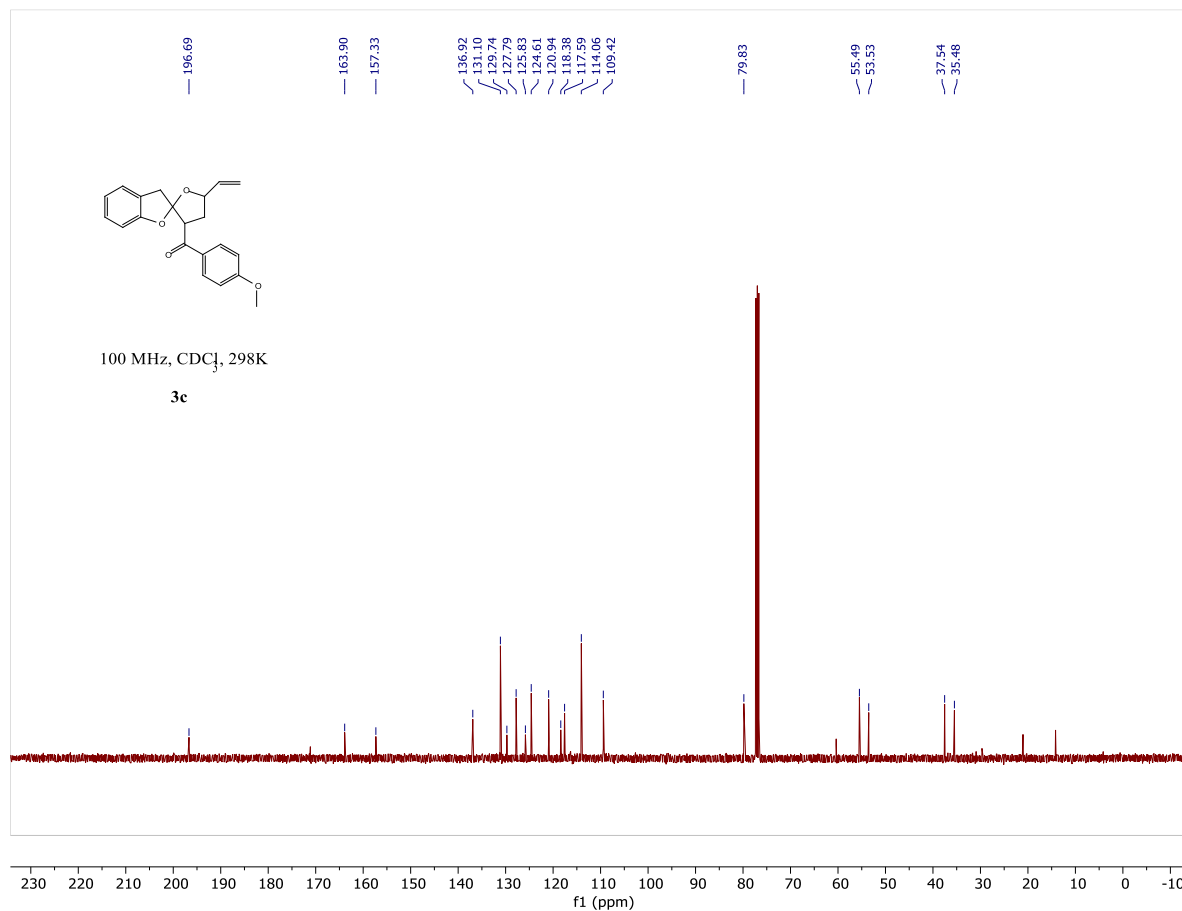
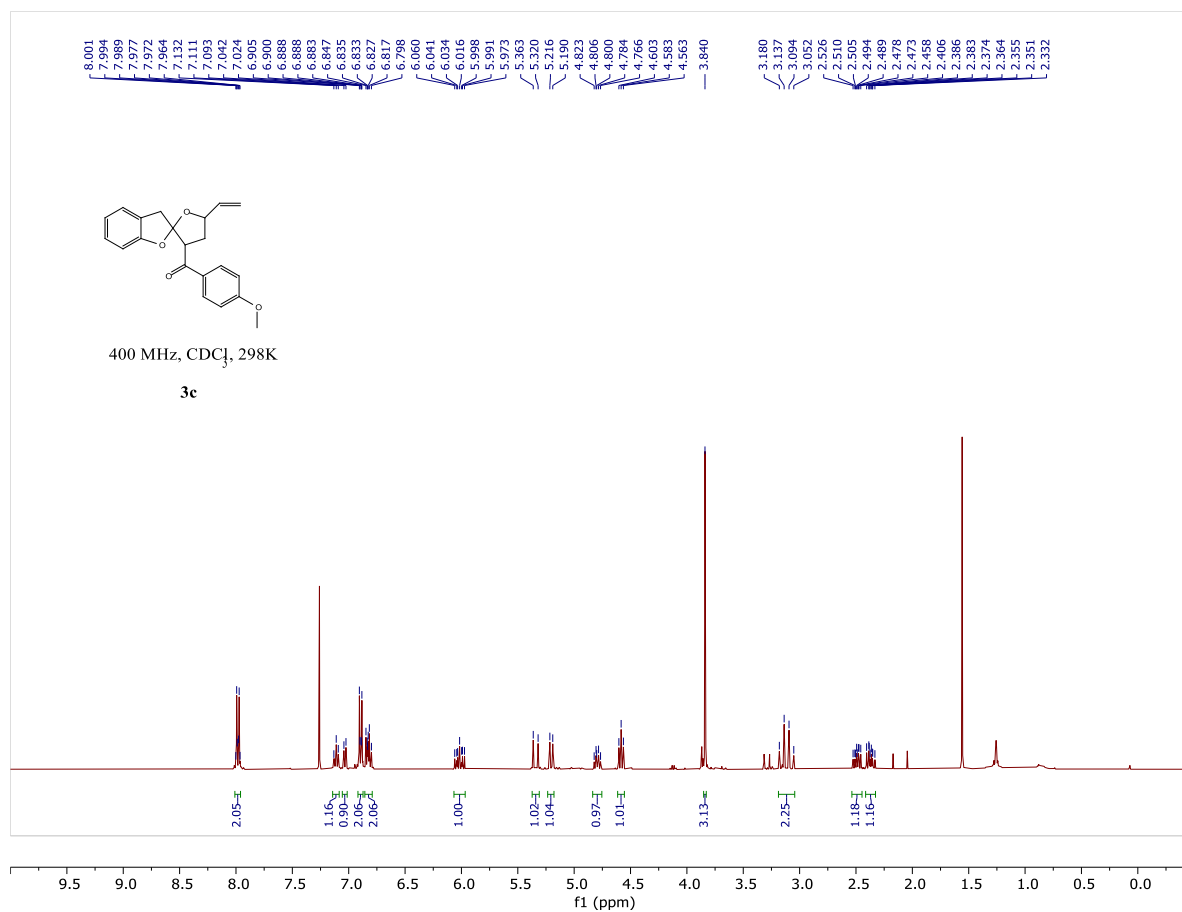
Copies of ^1H NMR and ^{13}C NMR spectra for **1a-d**, **3a-d**, **5a-f**, **6a-6f**, **7**, **8**, **9**S2

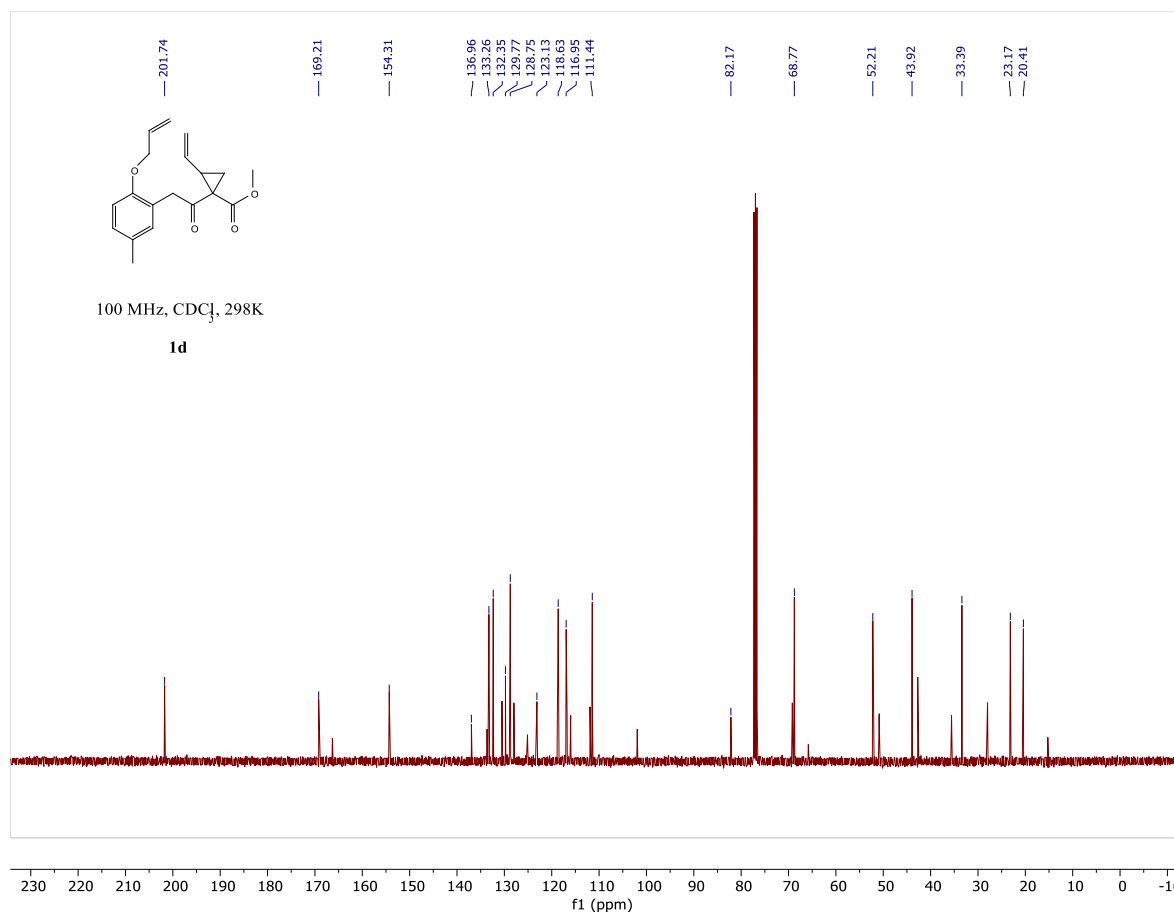
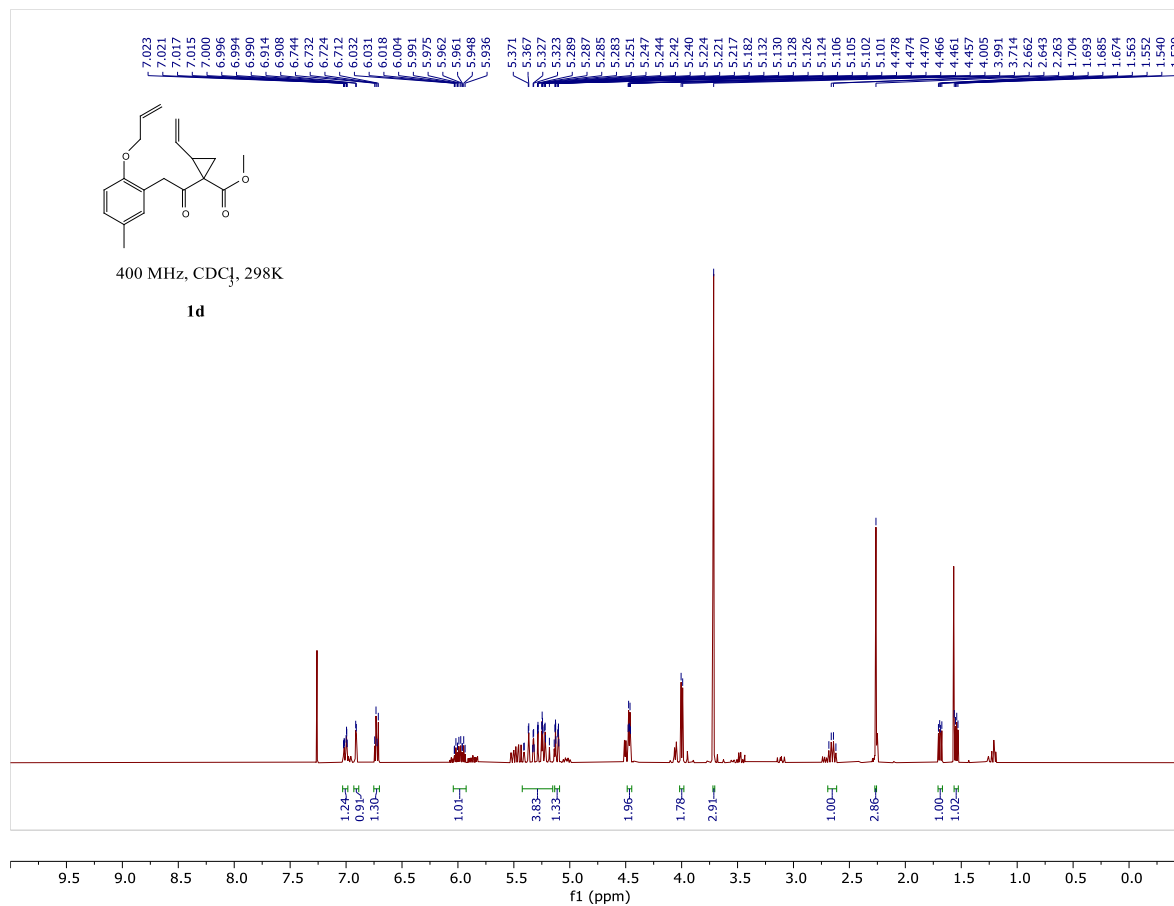


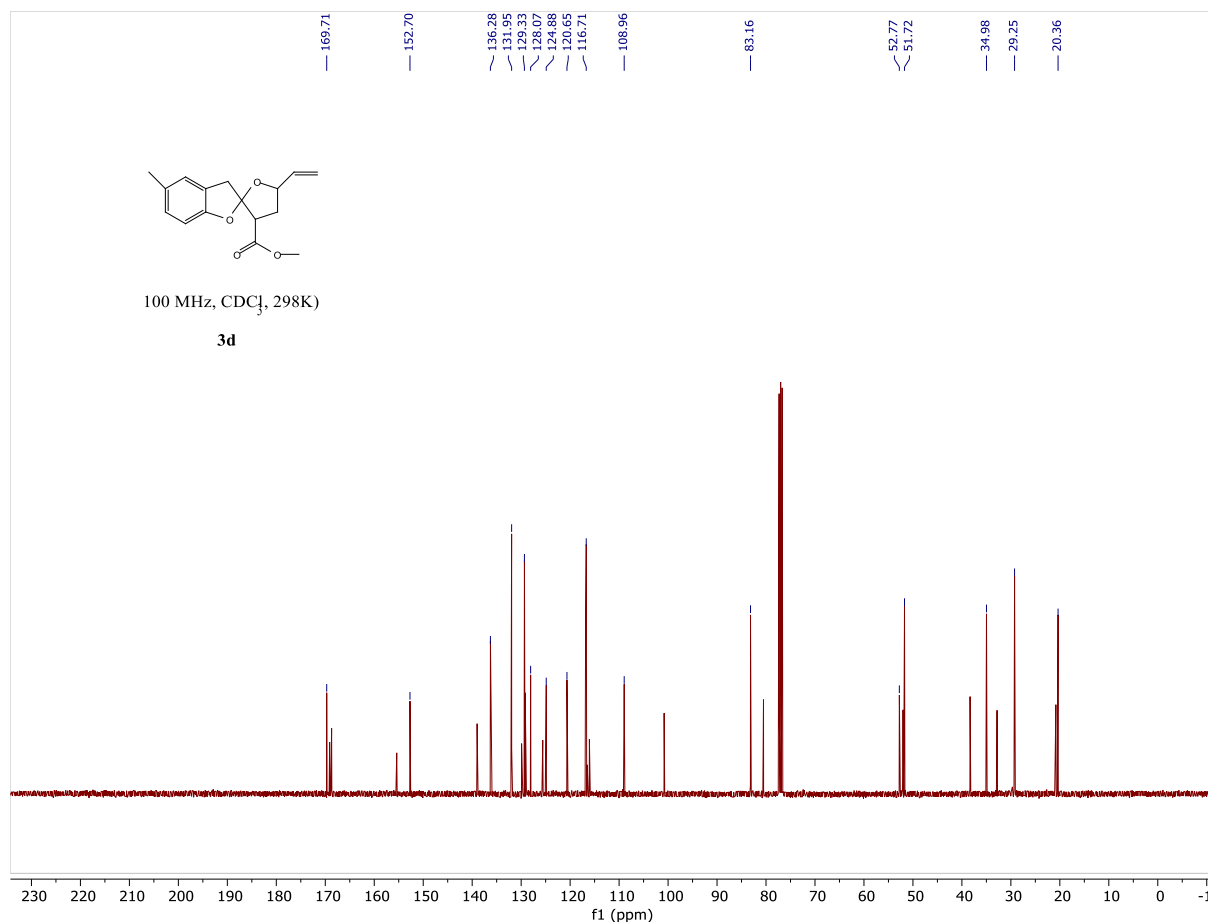
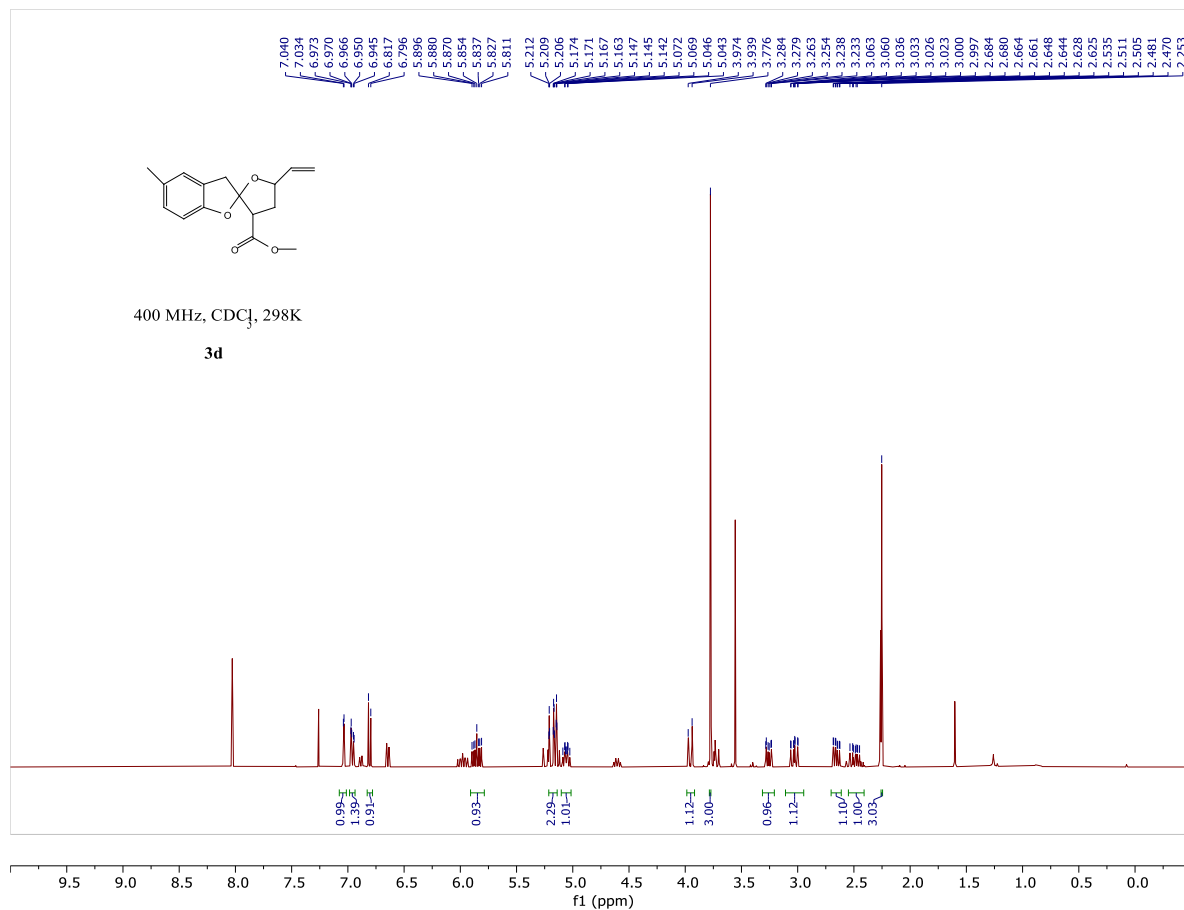


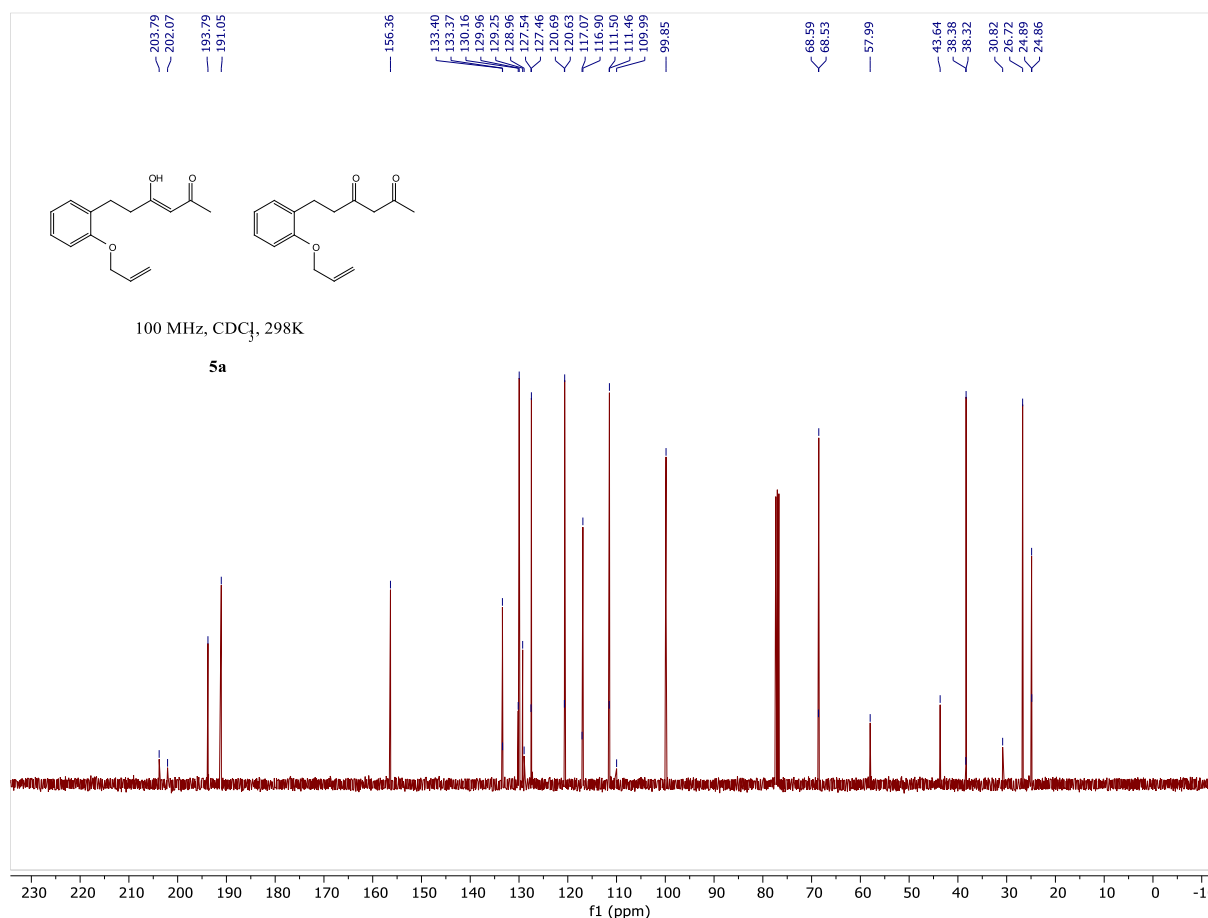
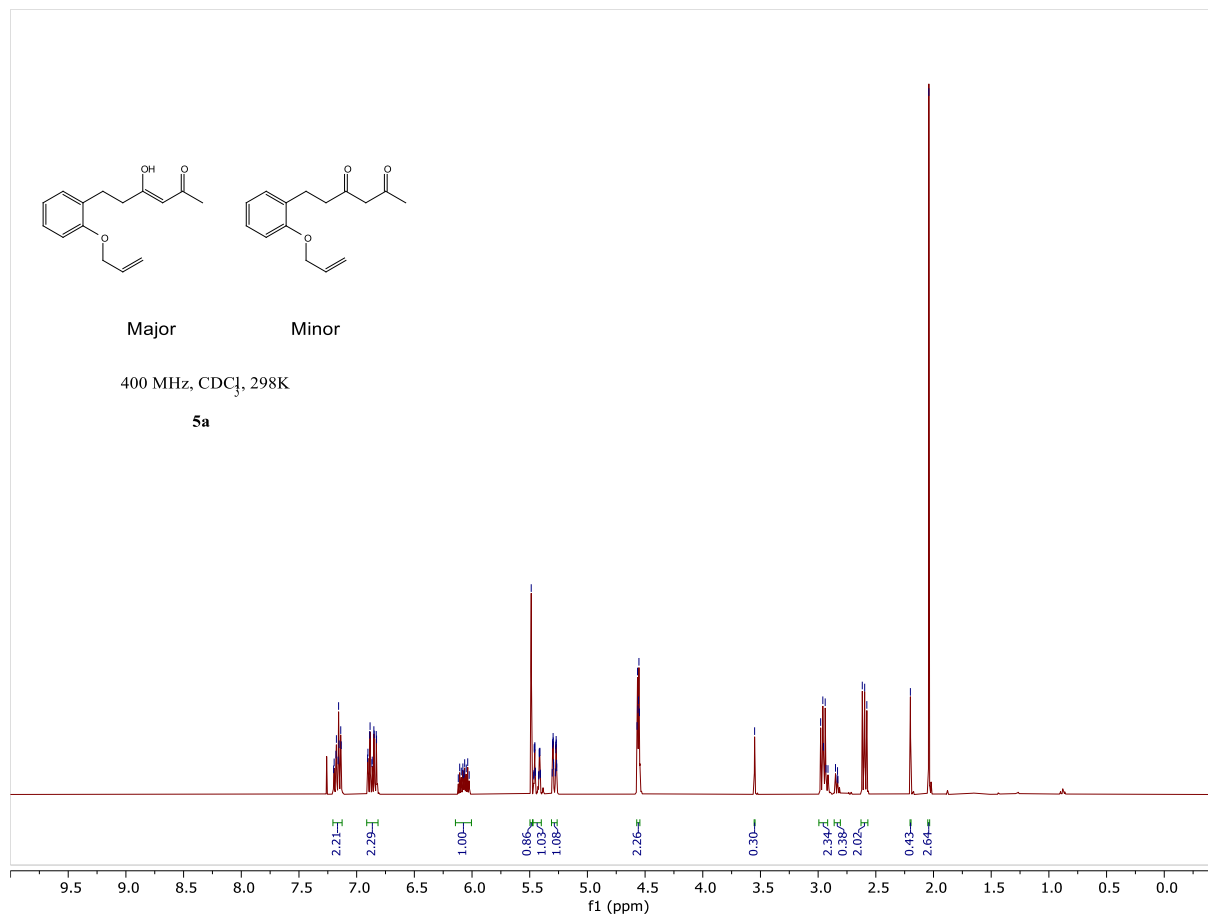


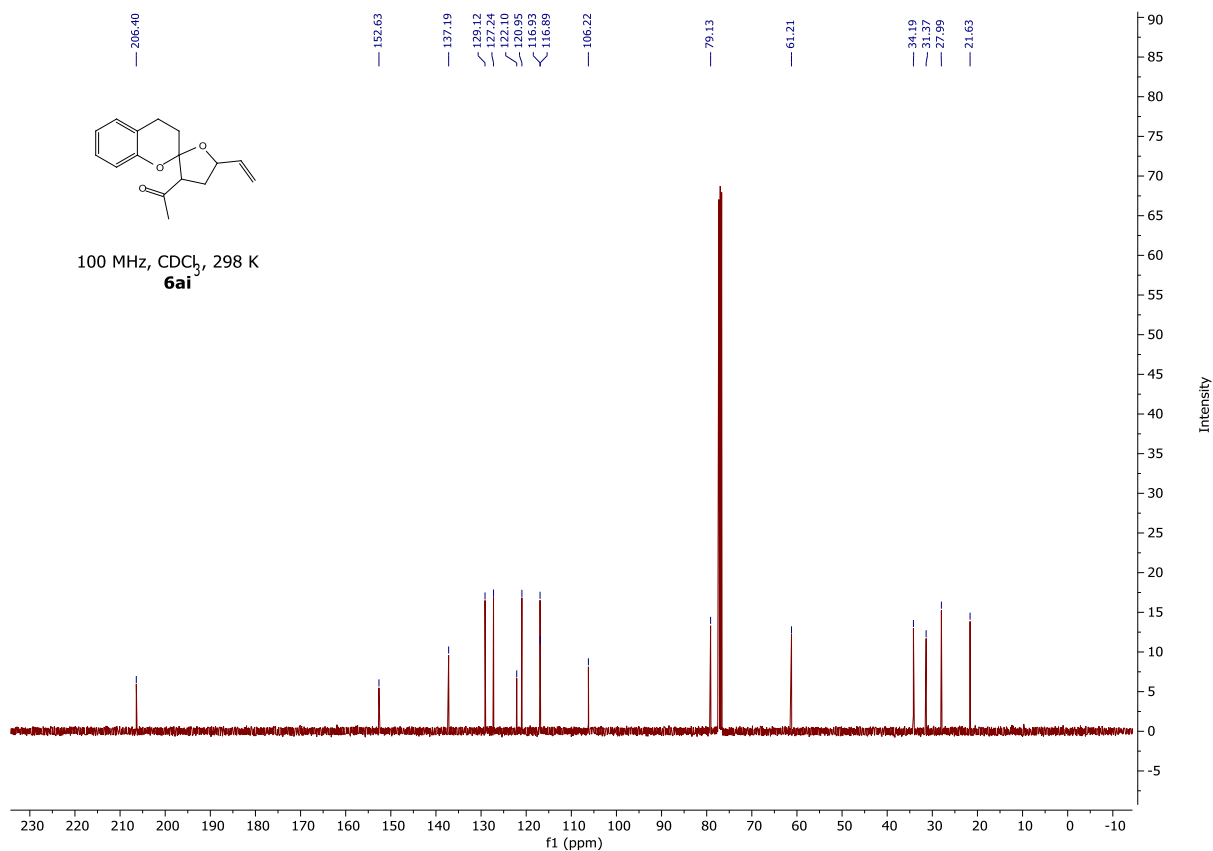
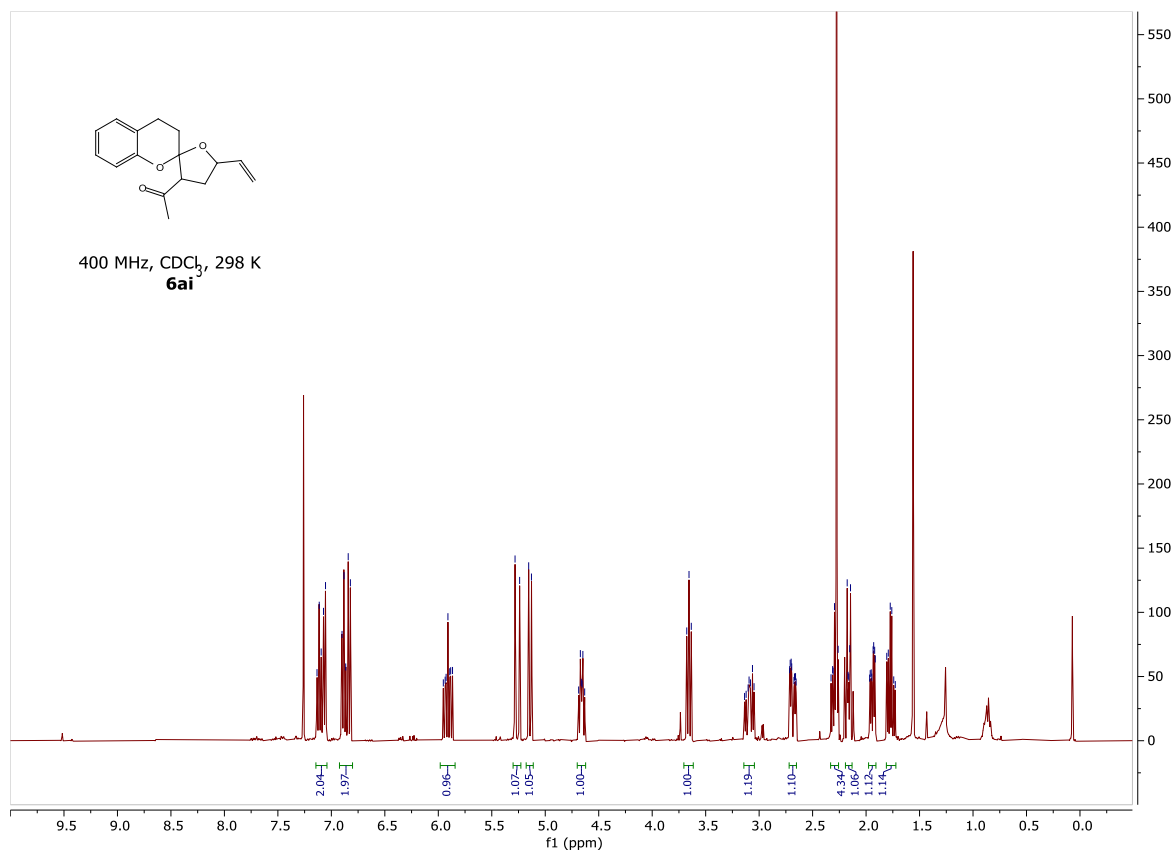


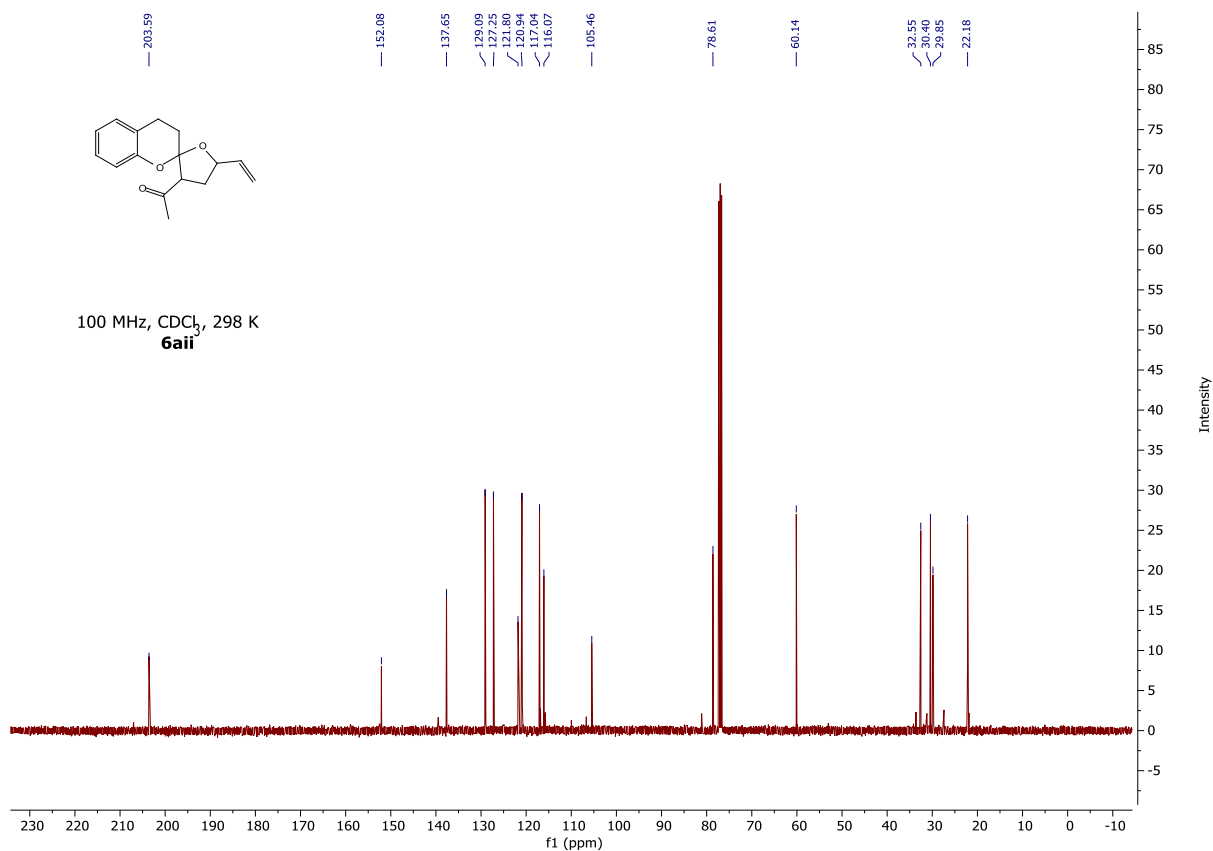
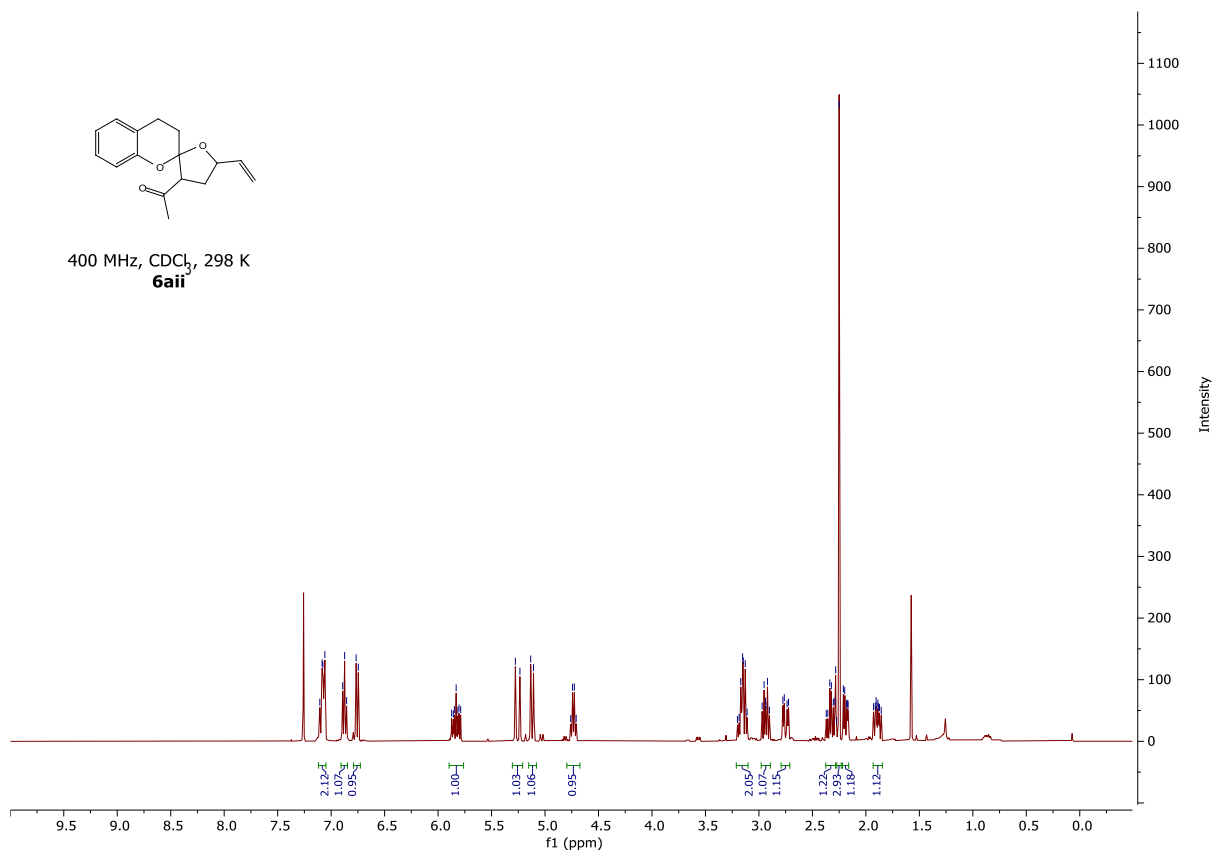


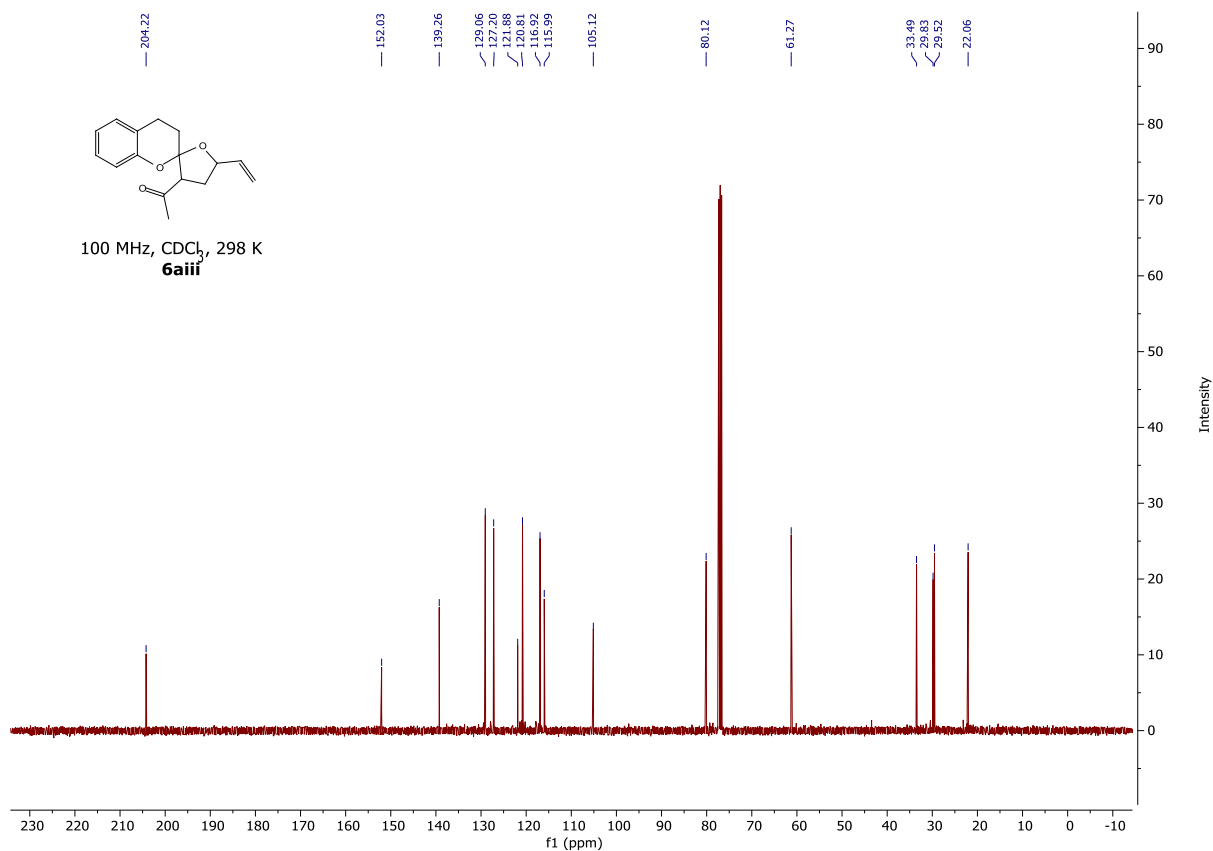
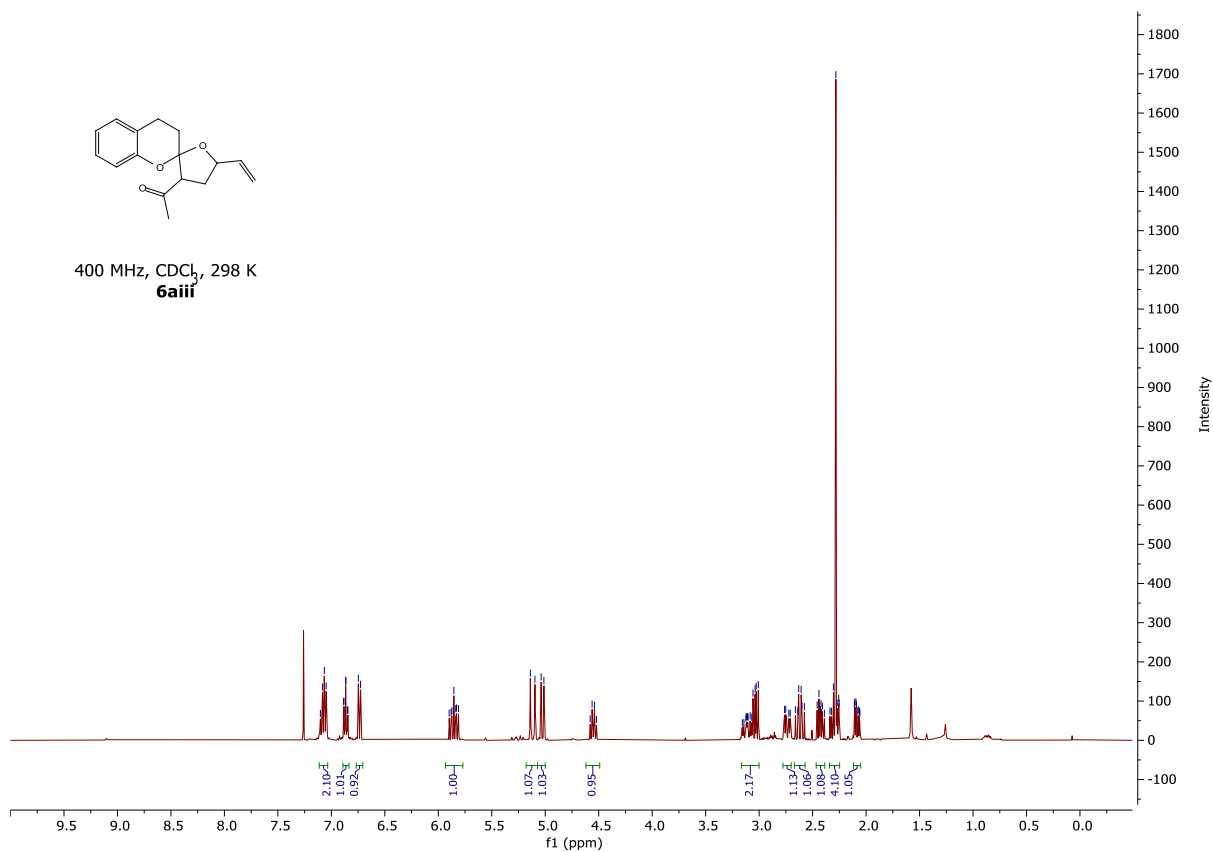


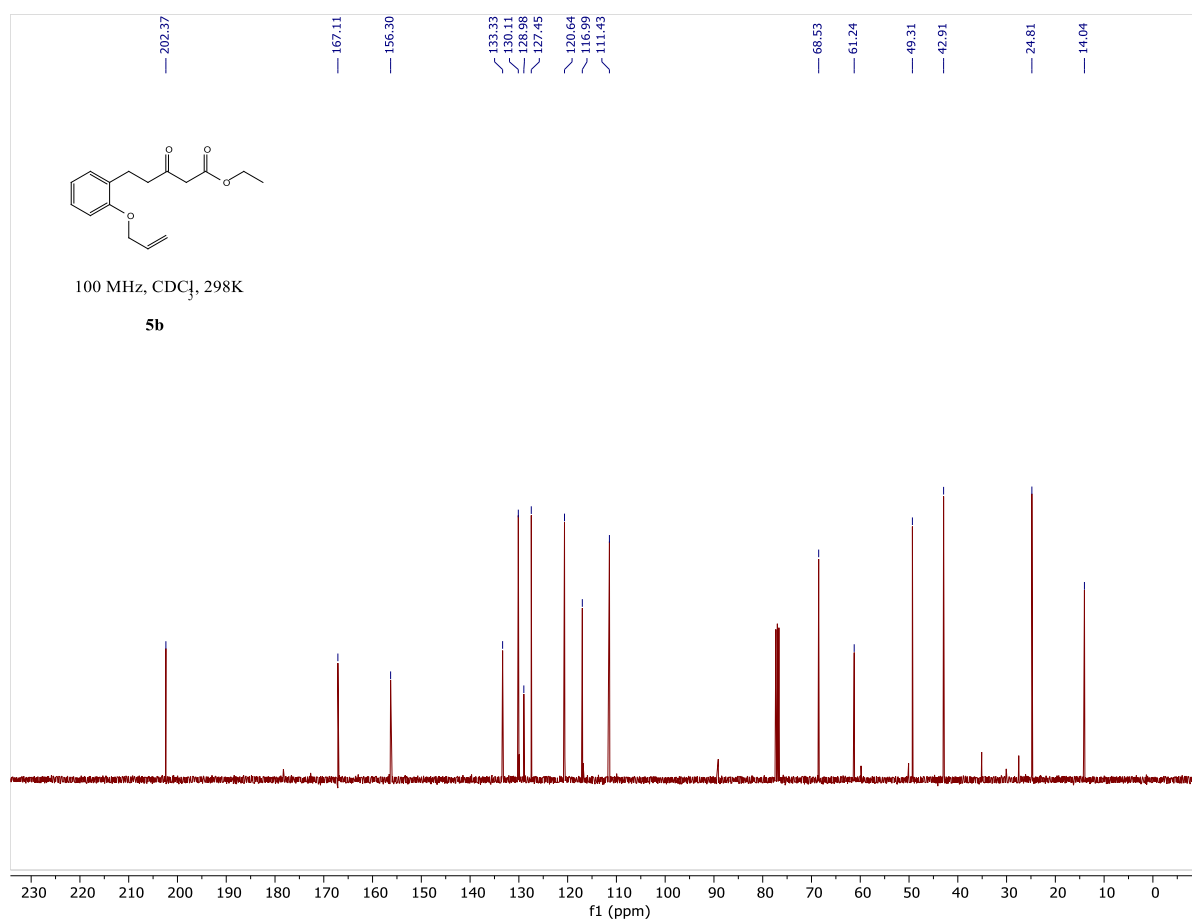
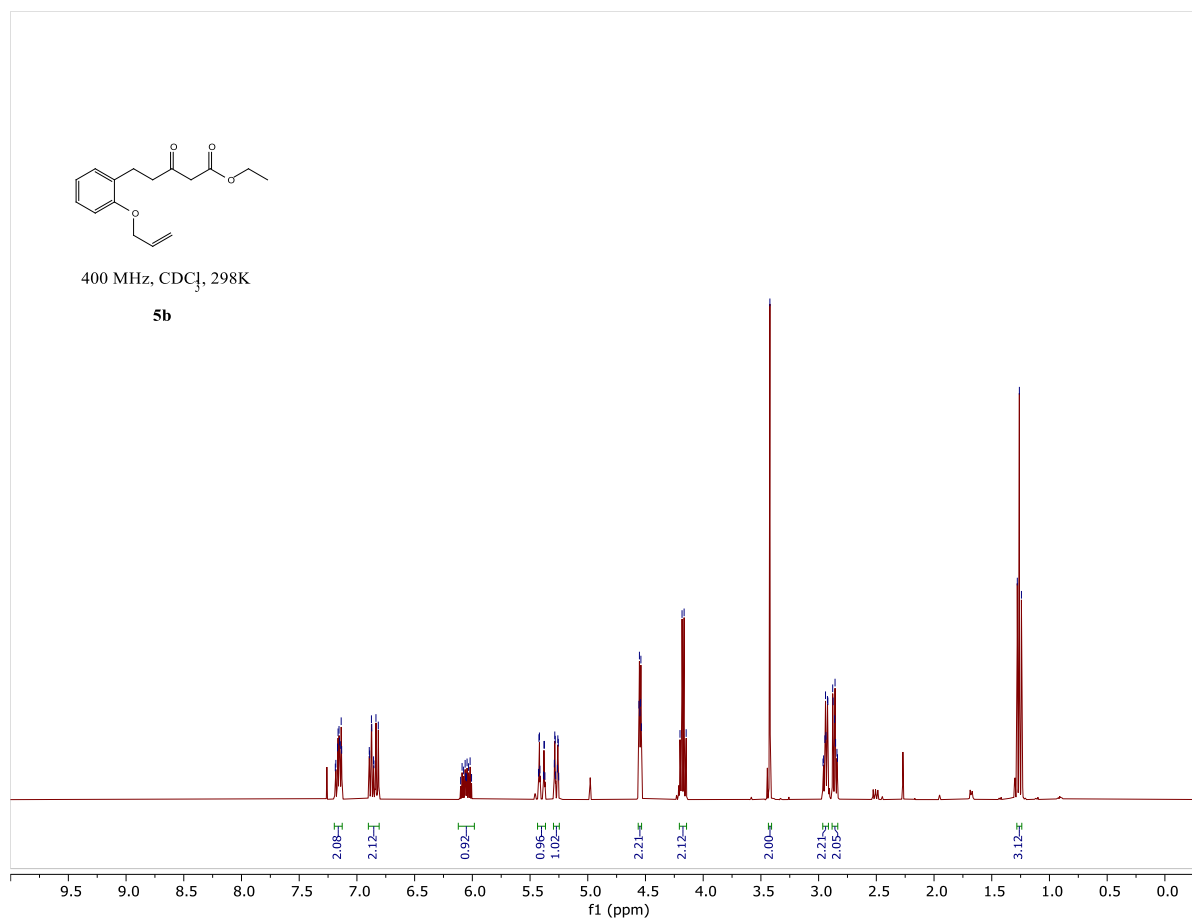


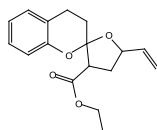
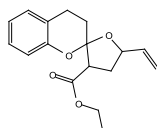
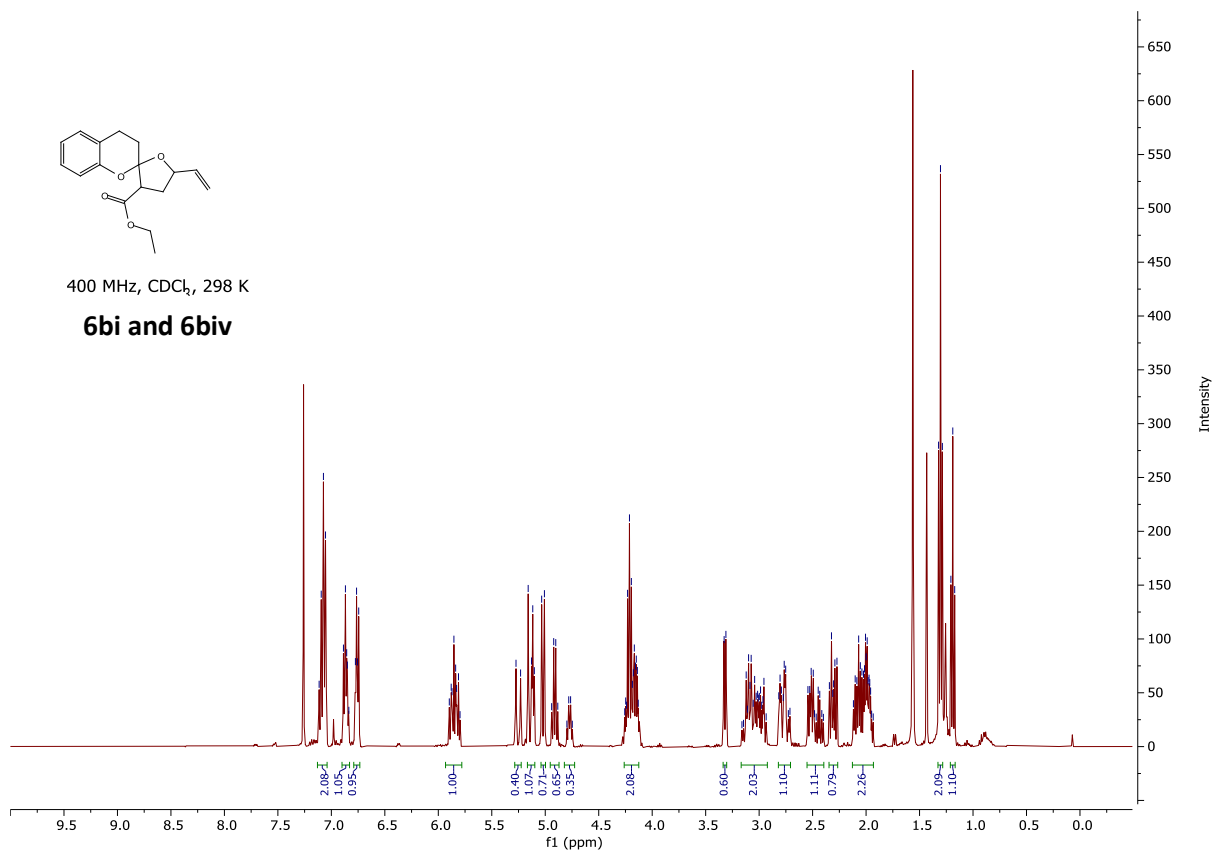
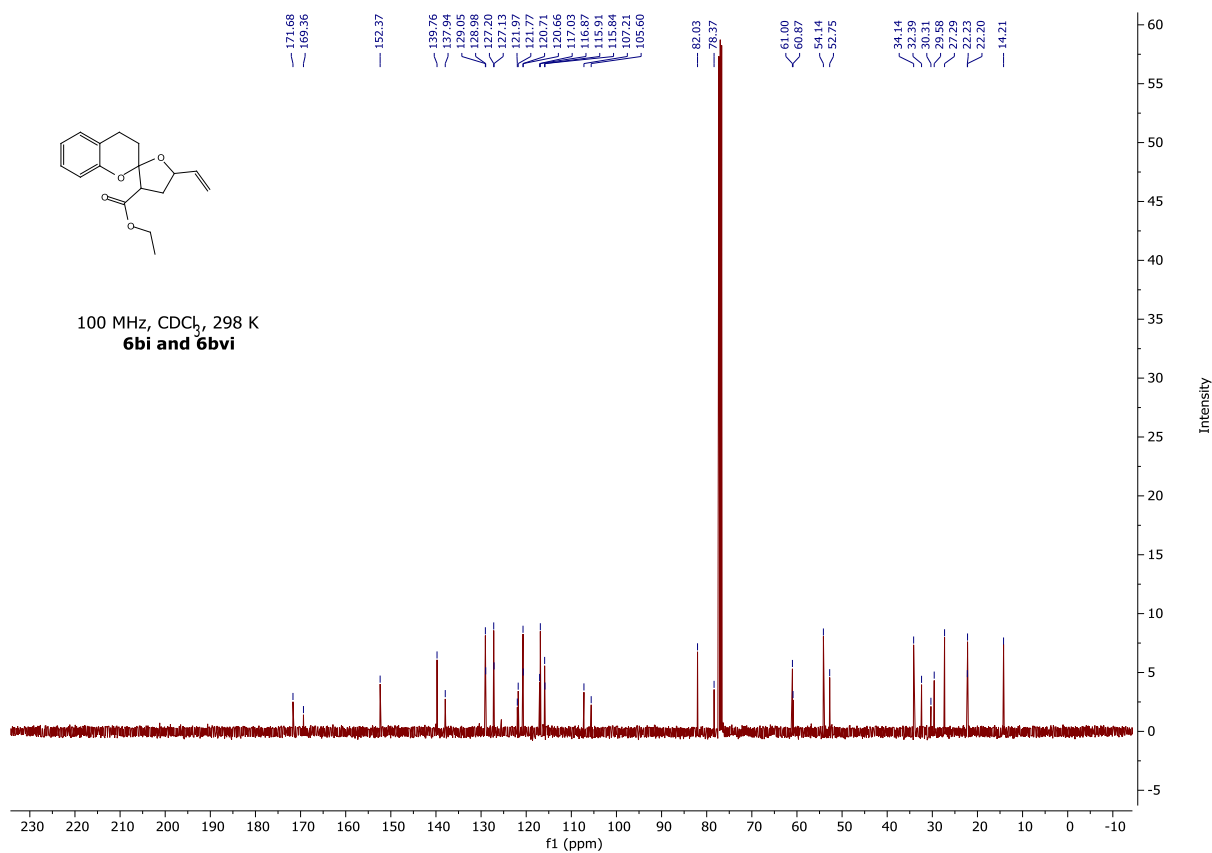


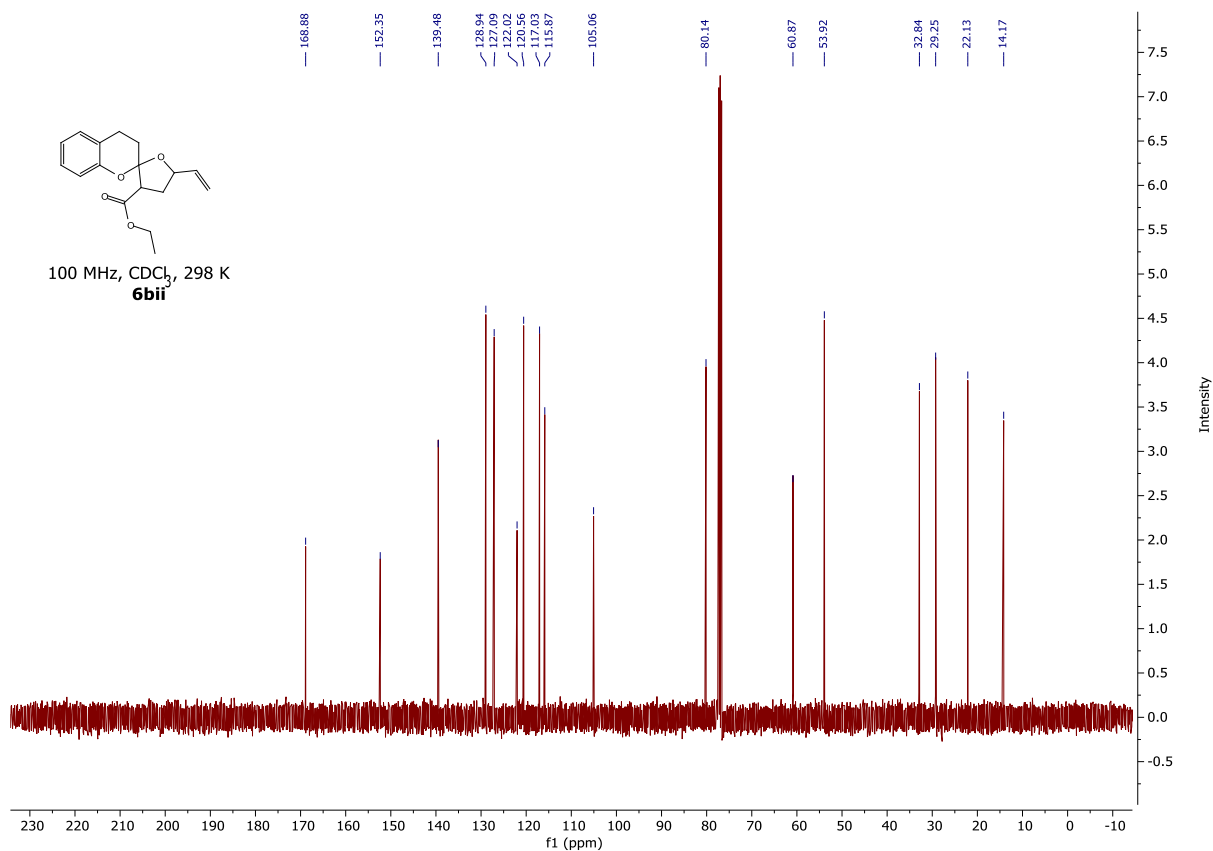
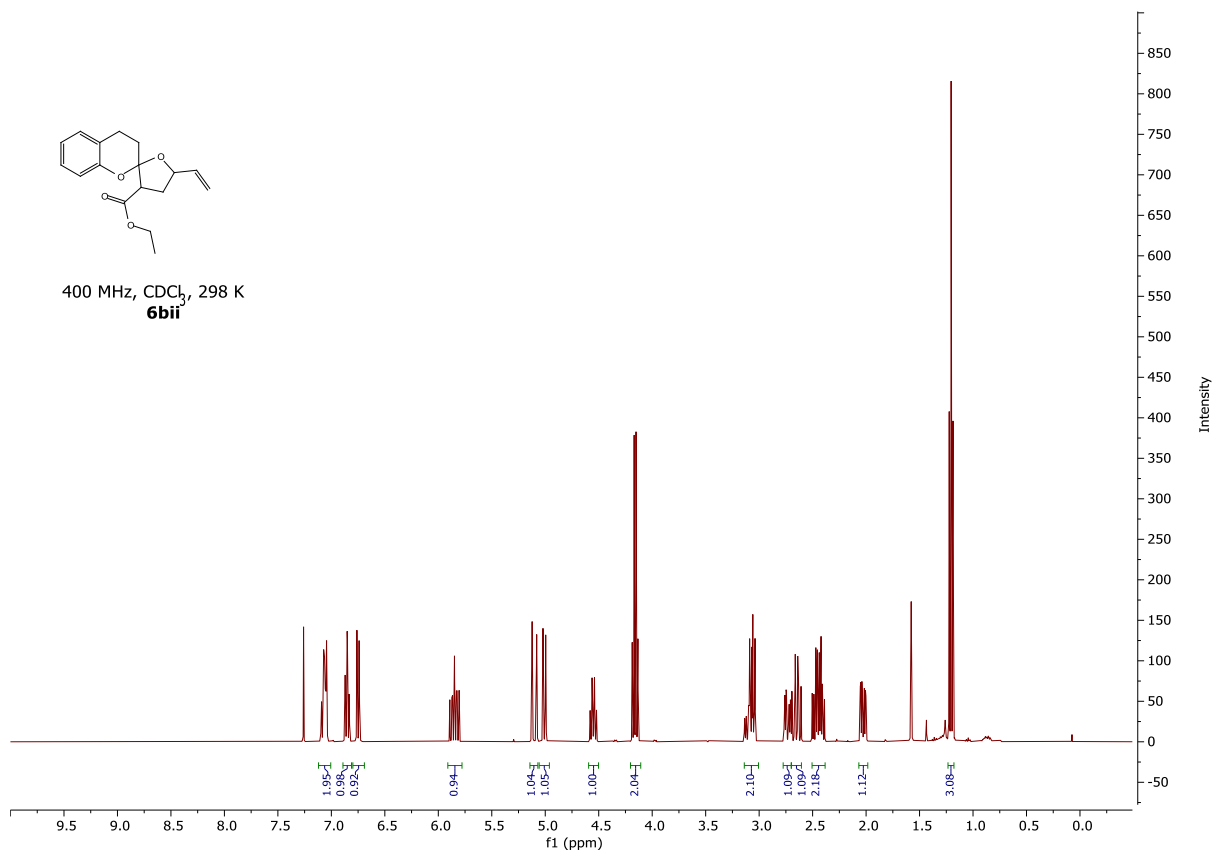


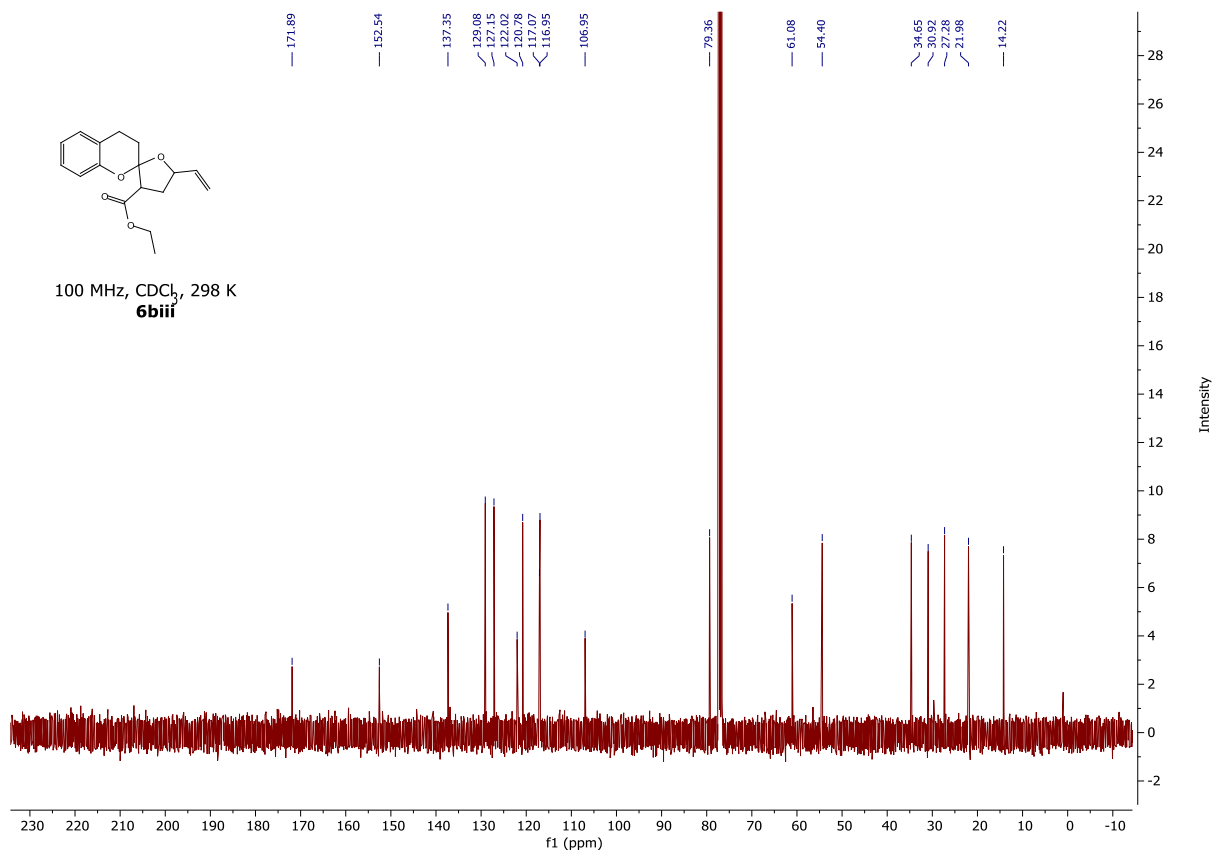
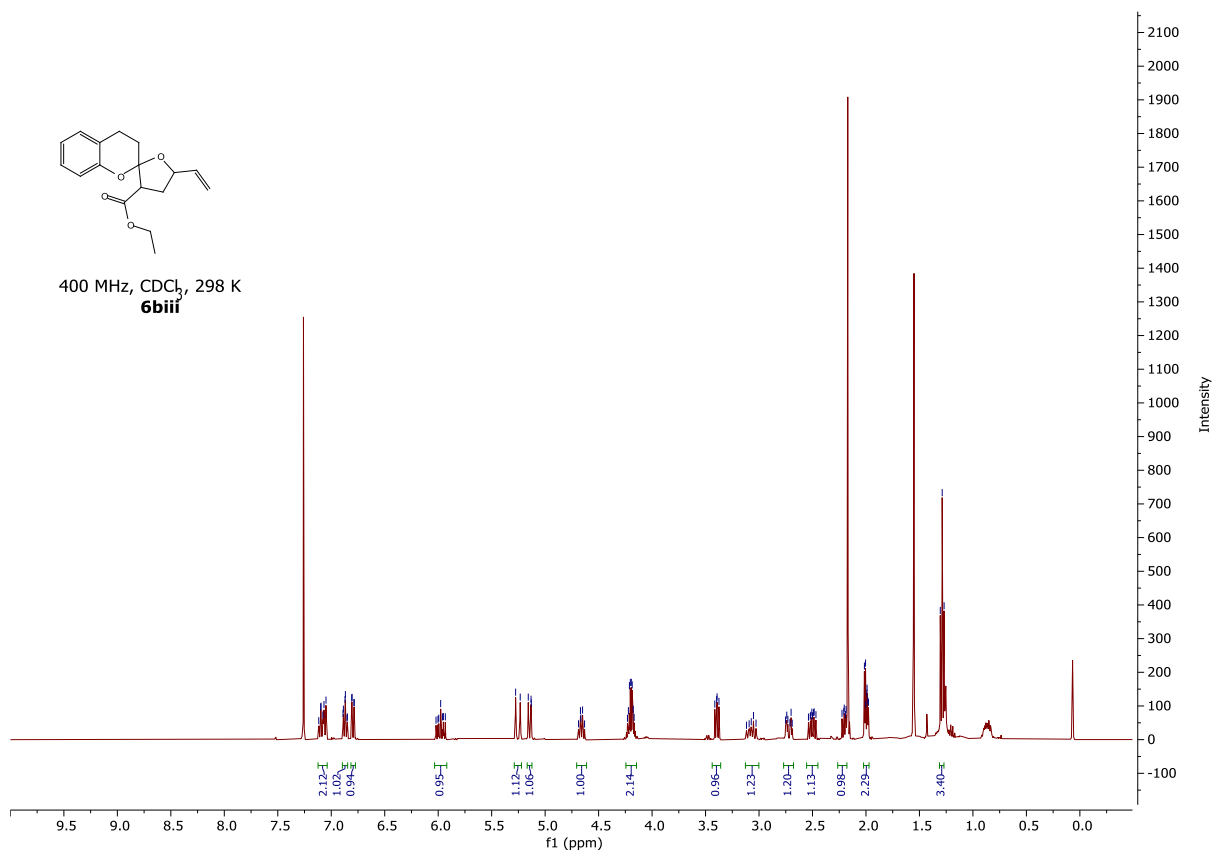


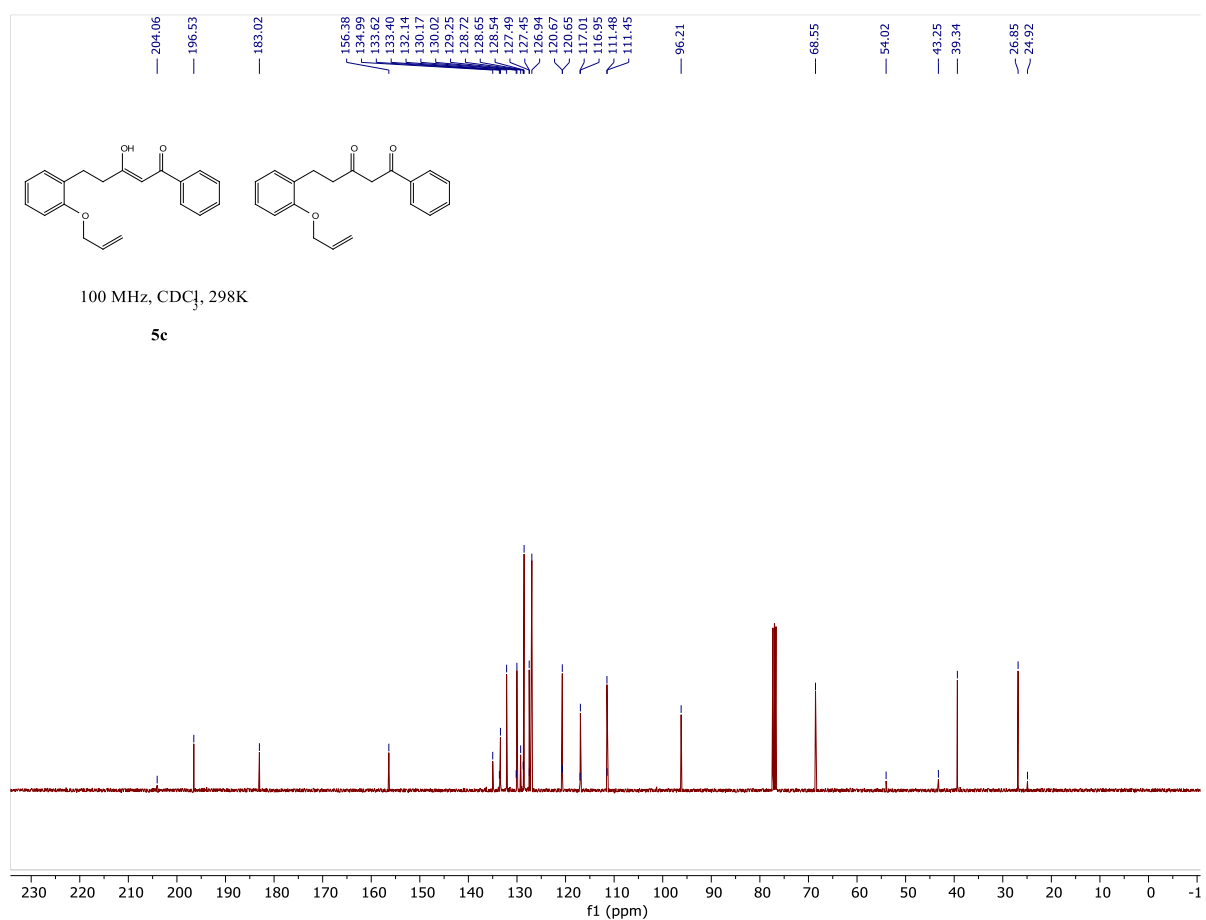
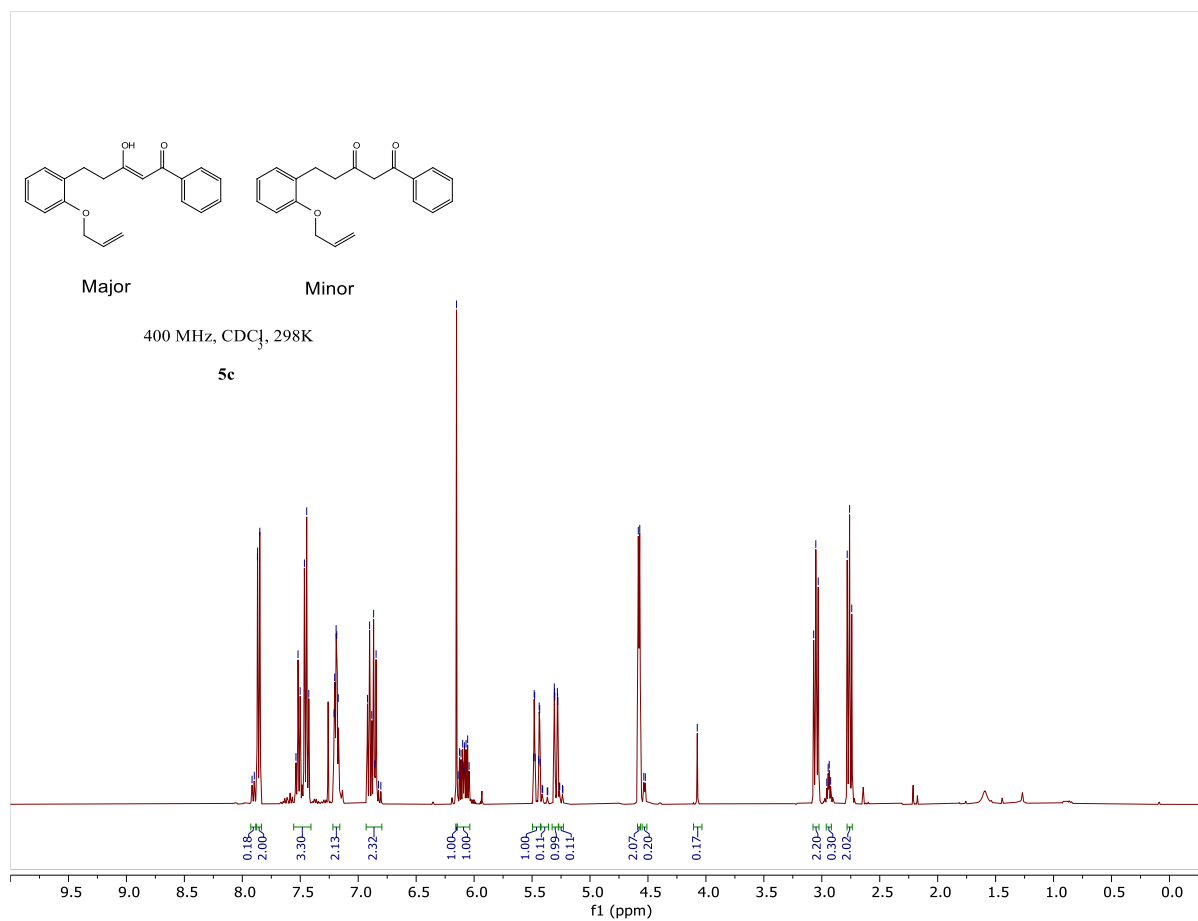


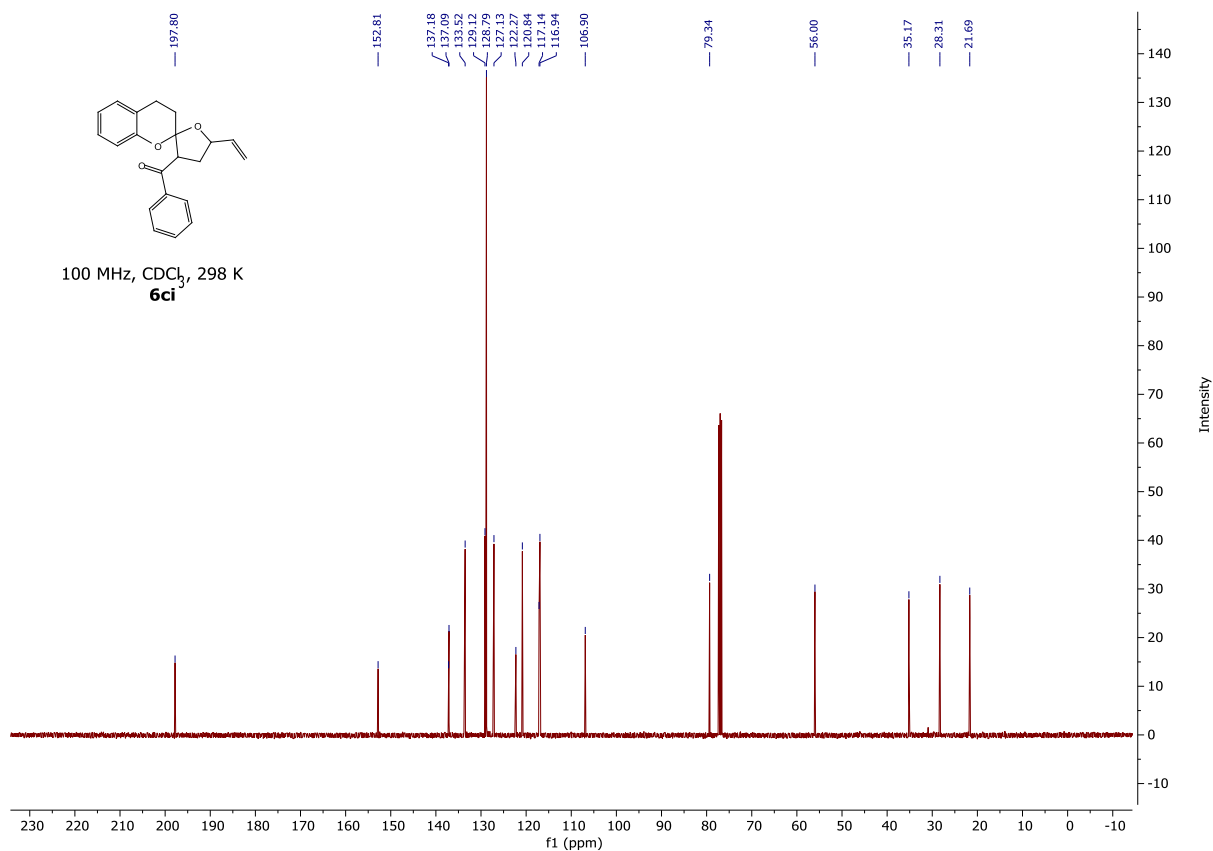
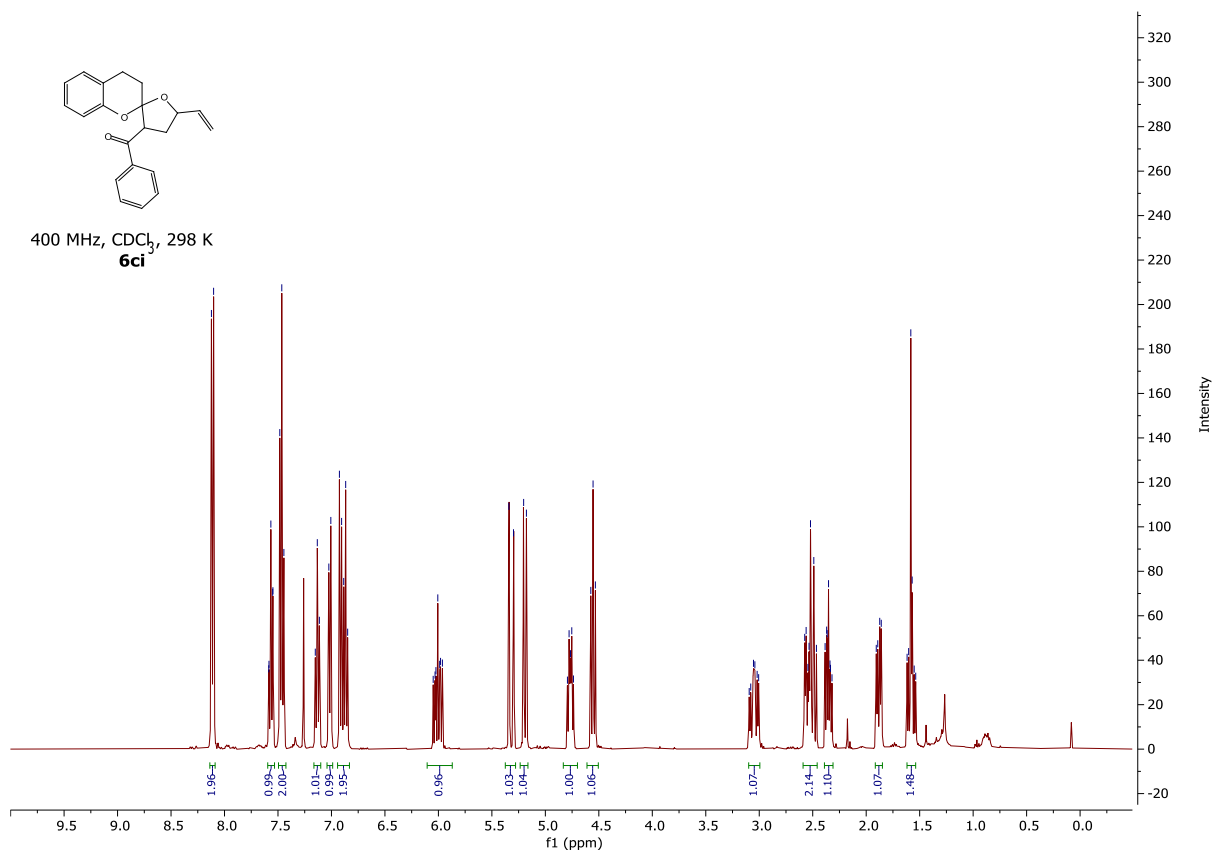


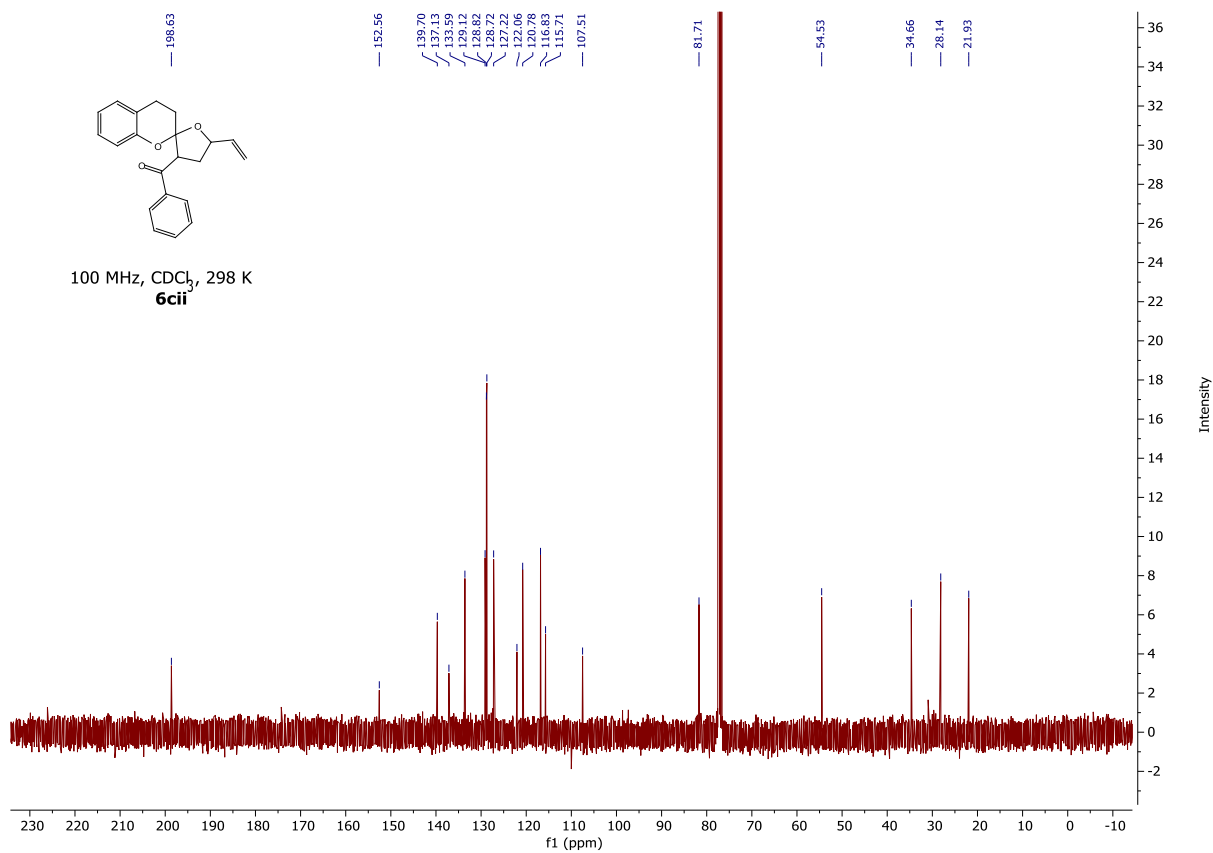
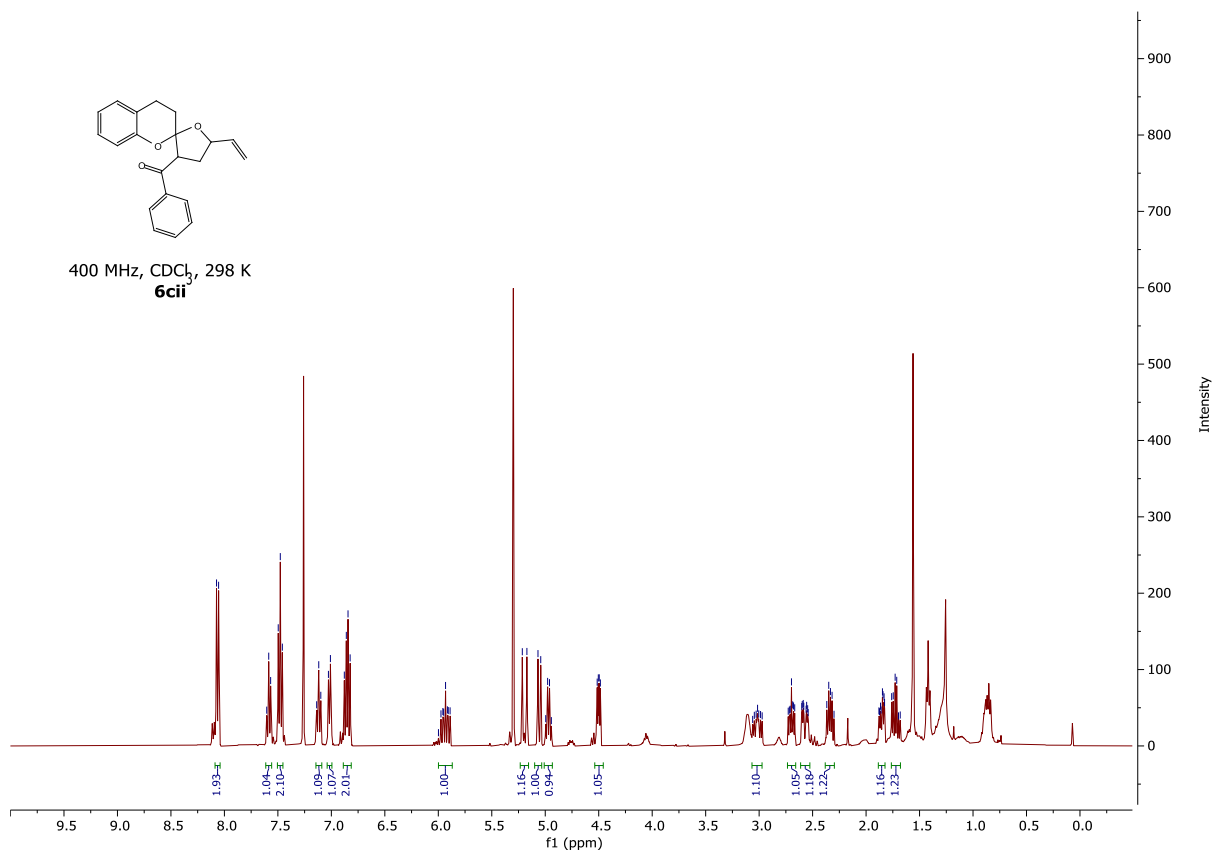
400 MHz, CDCl₃, 298 K**6bi and 6biv**100 MHz, CDCl₃, 298 K**6bi and 6bvi**

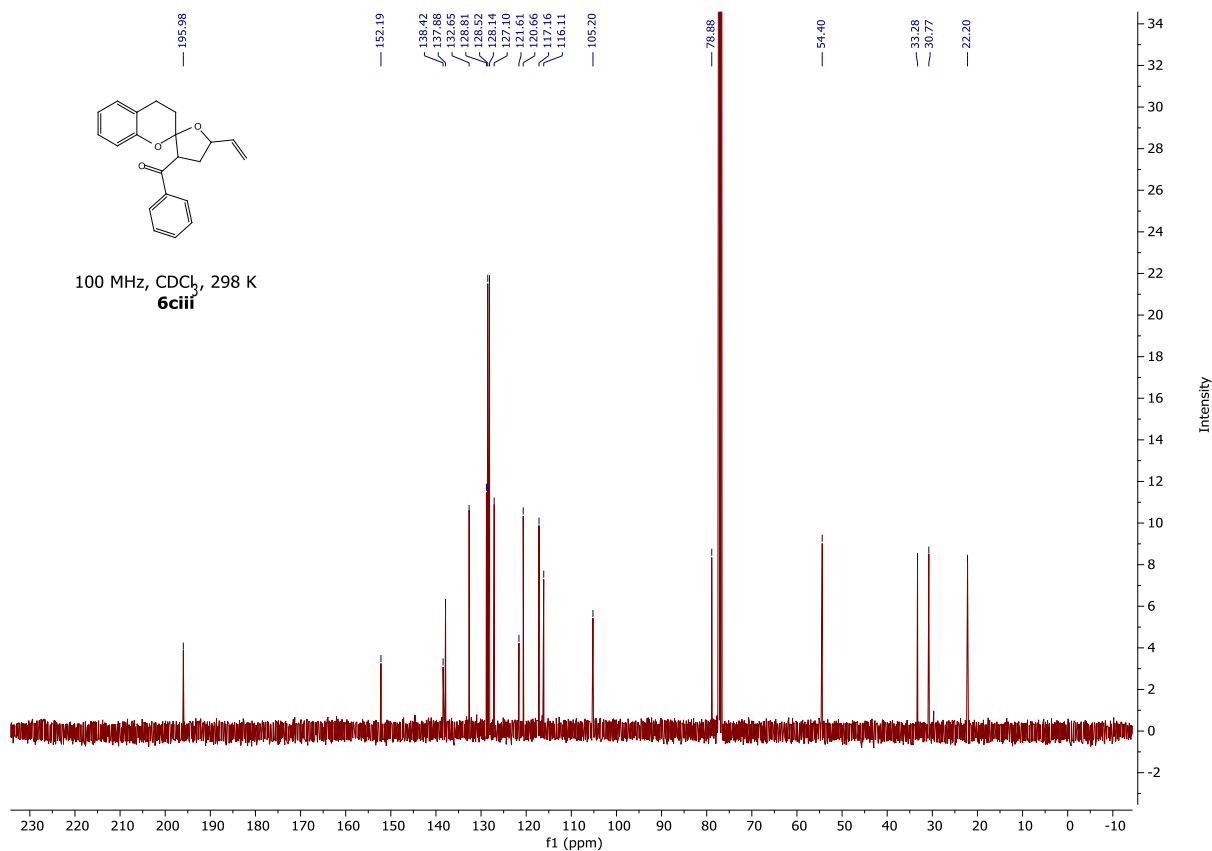
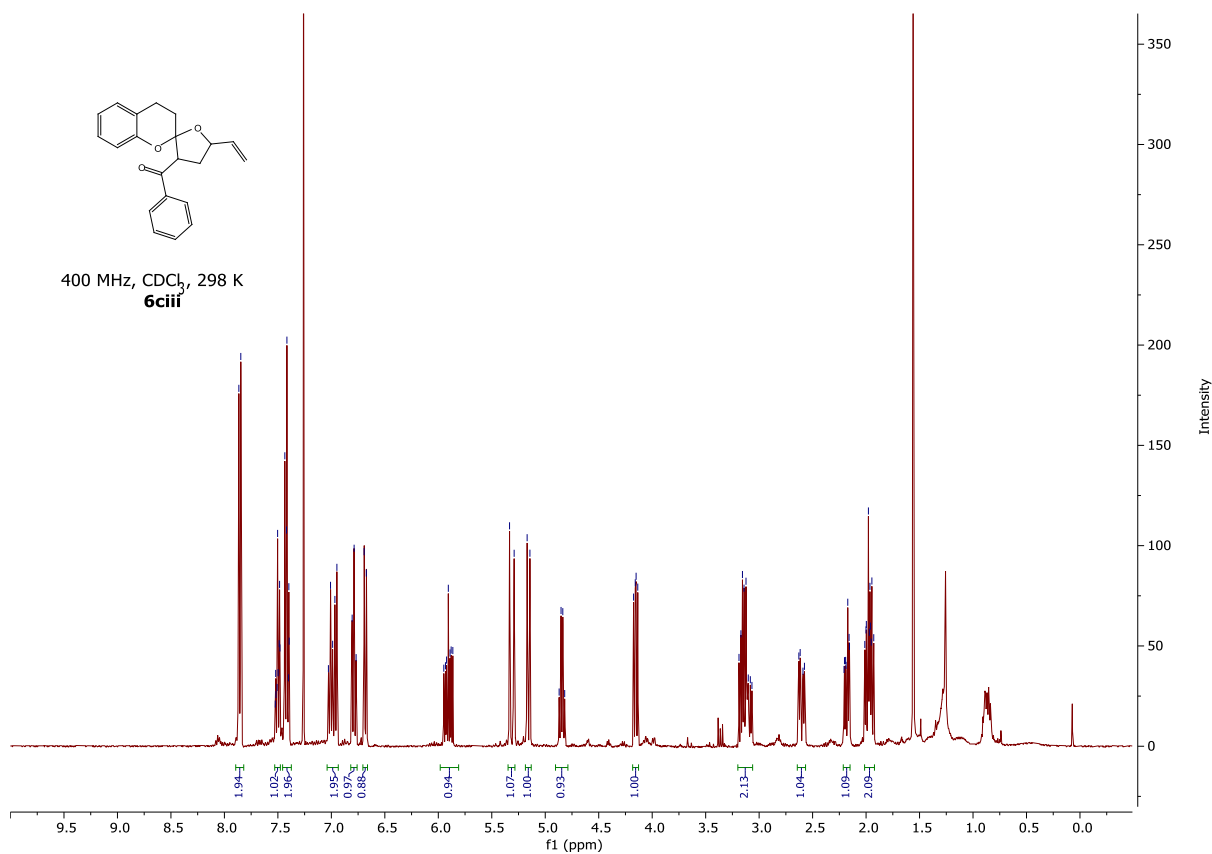


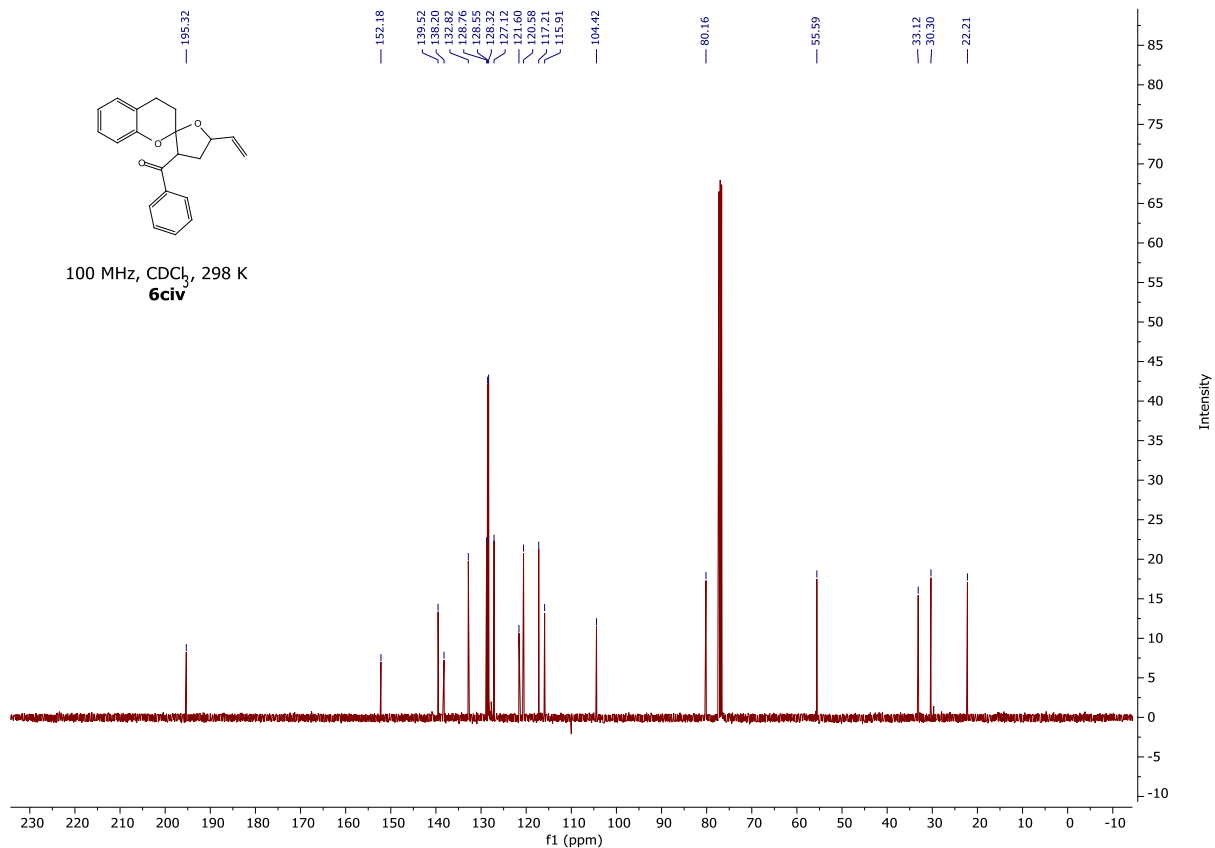
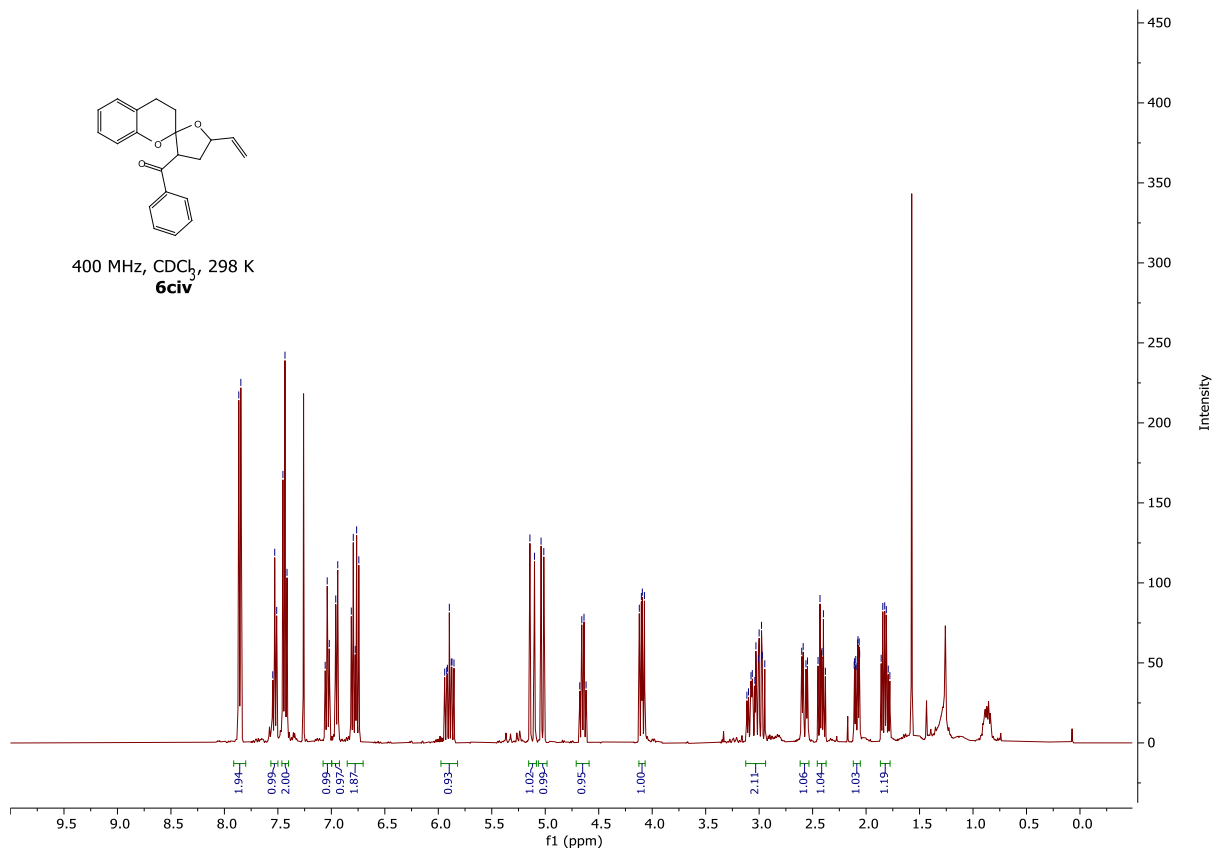


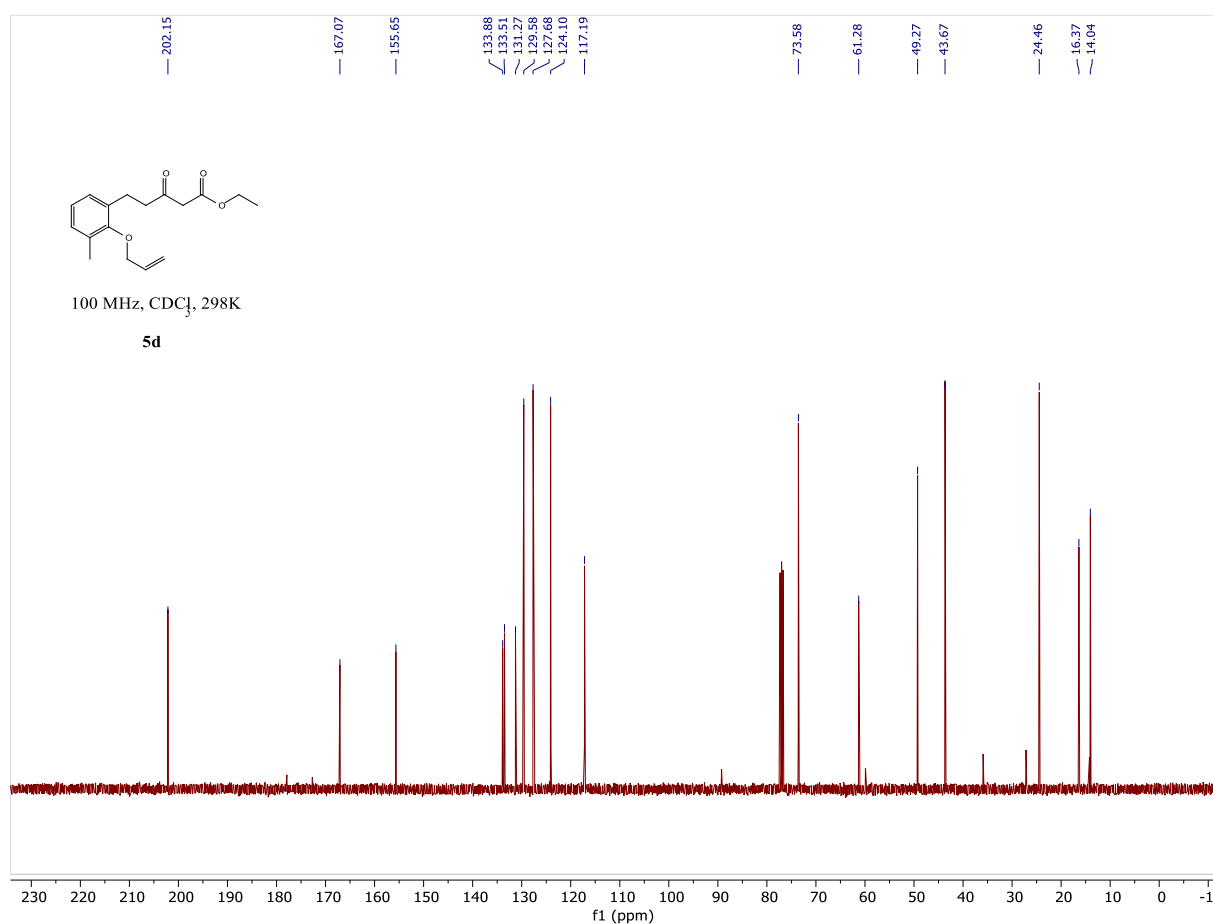
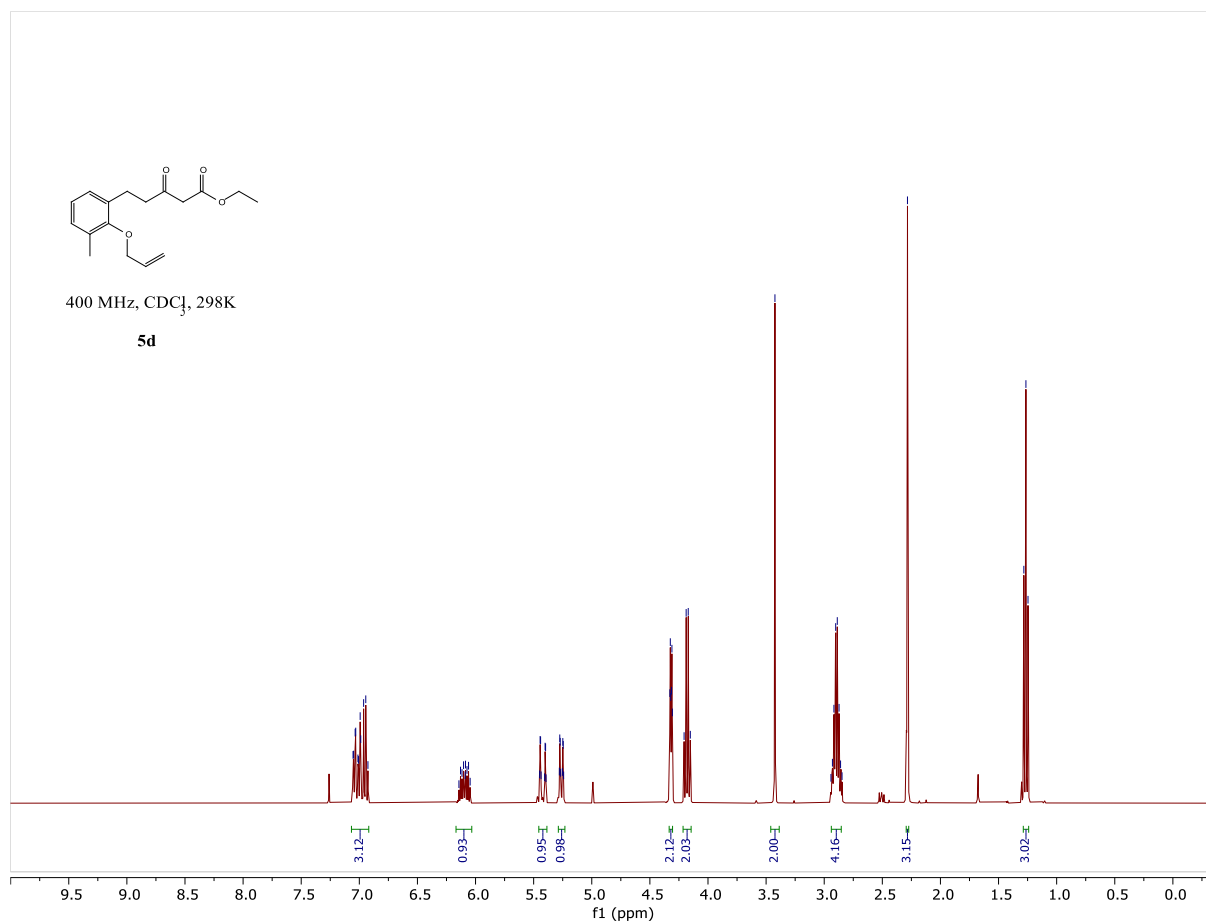


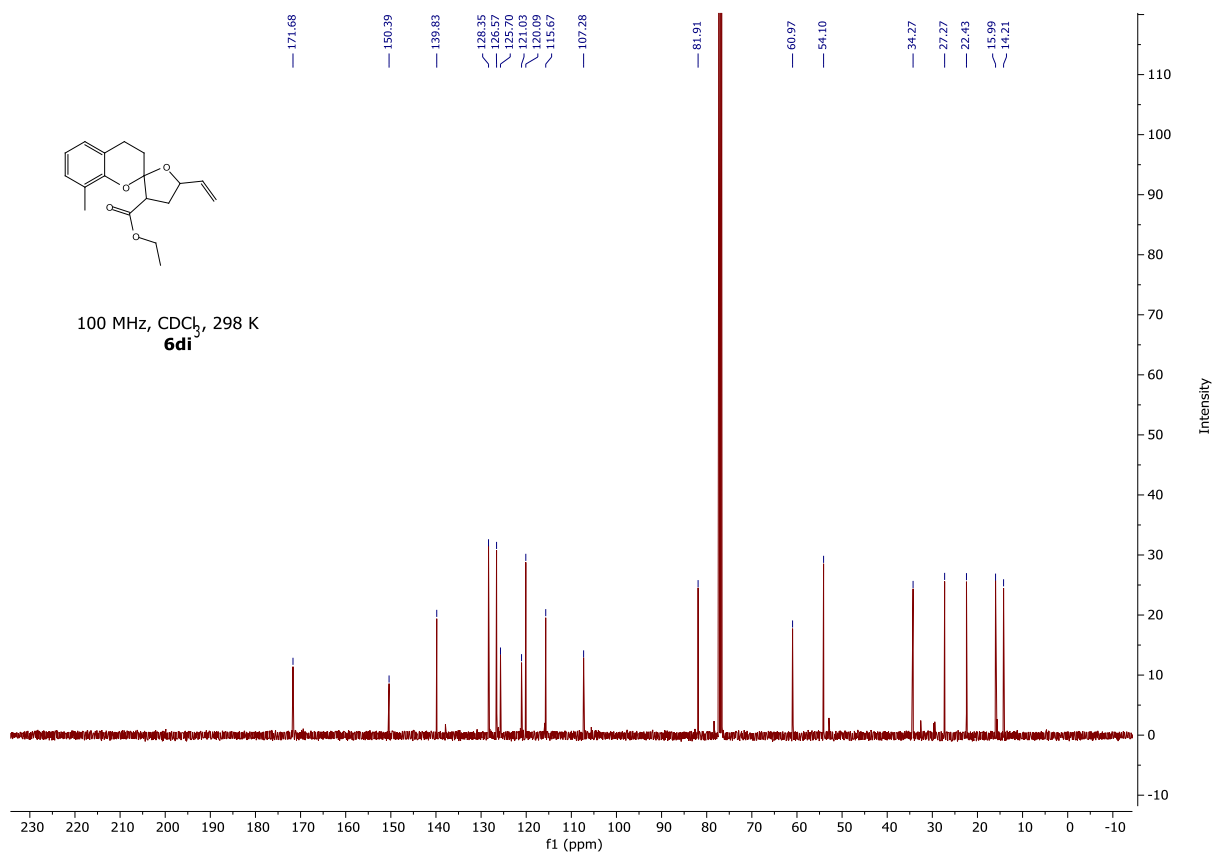
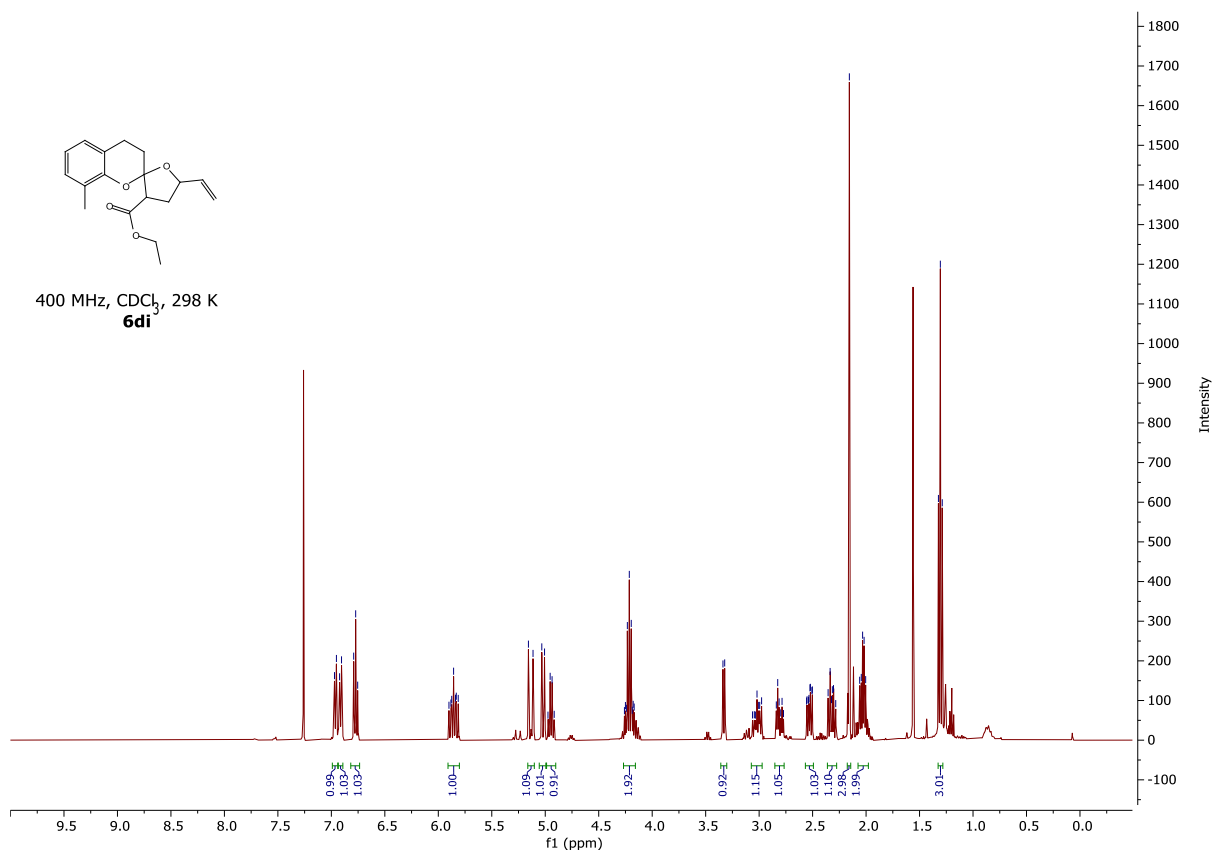


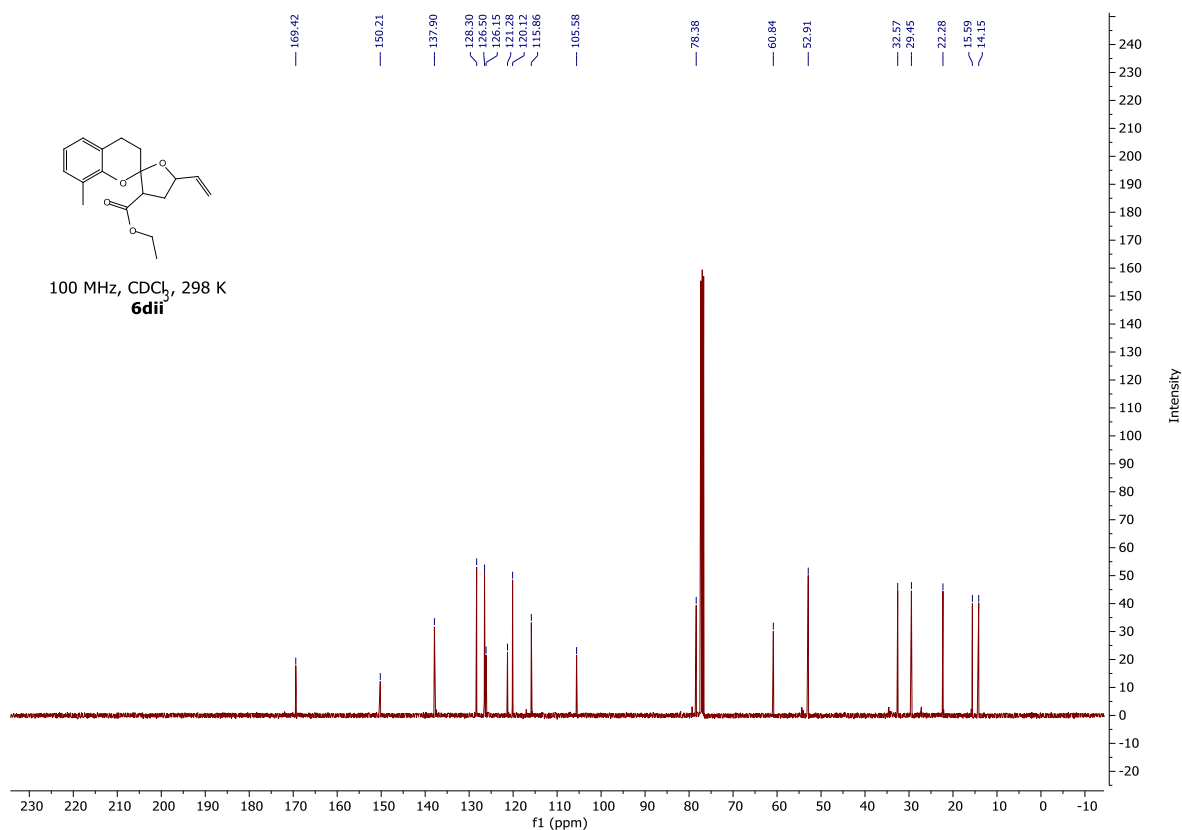
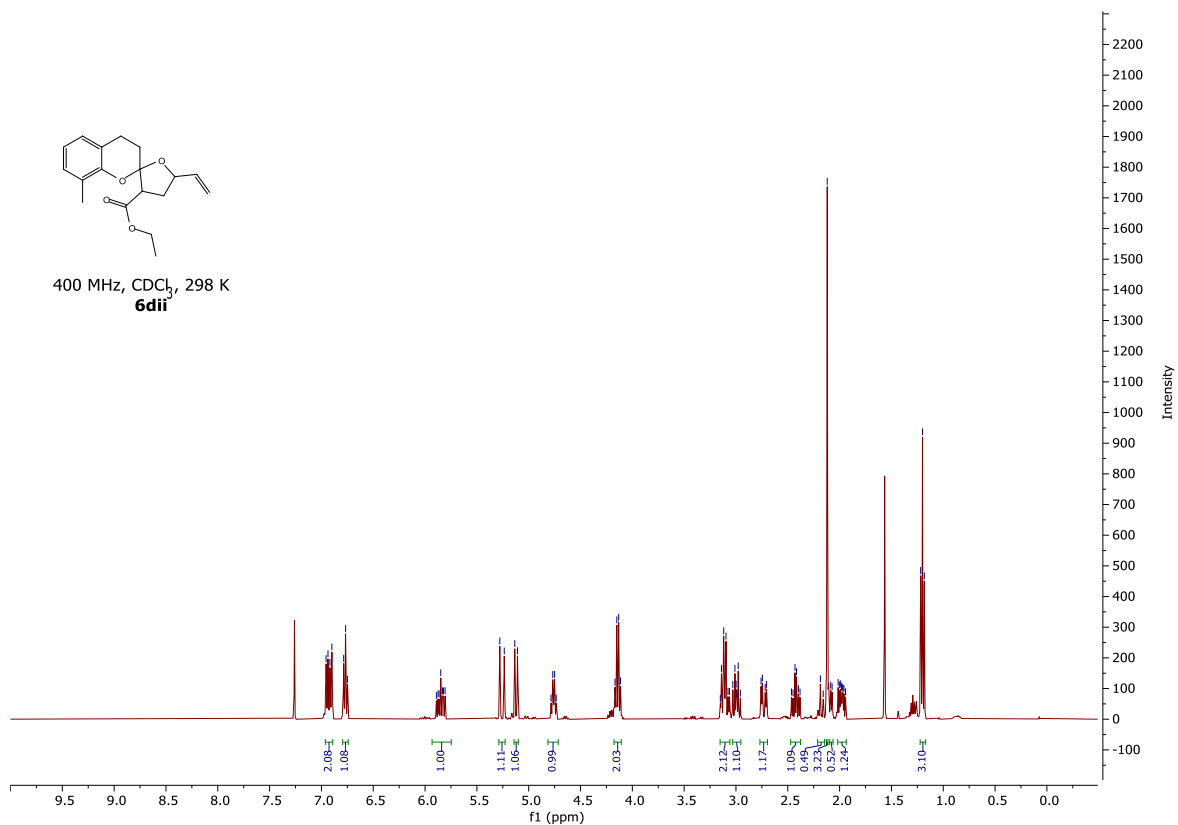


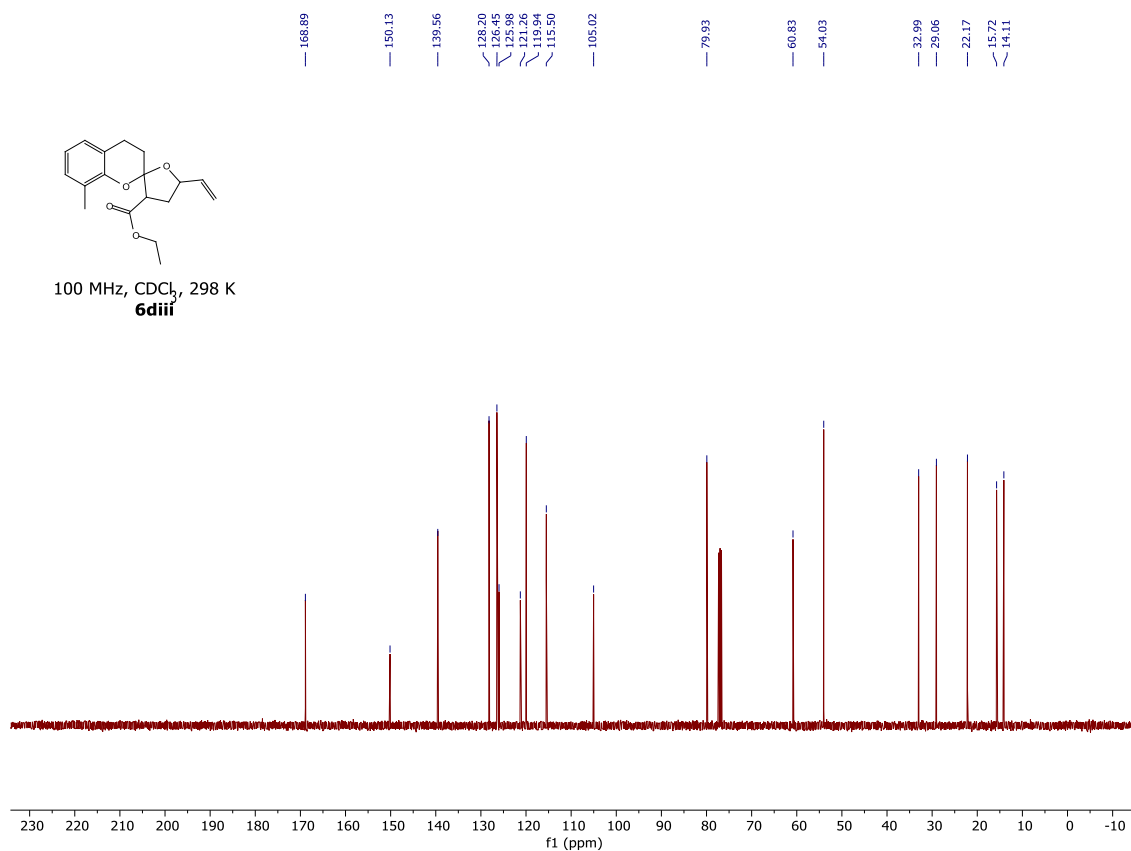
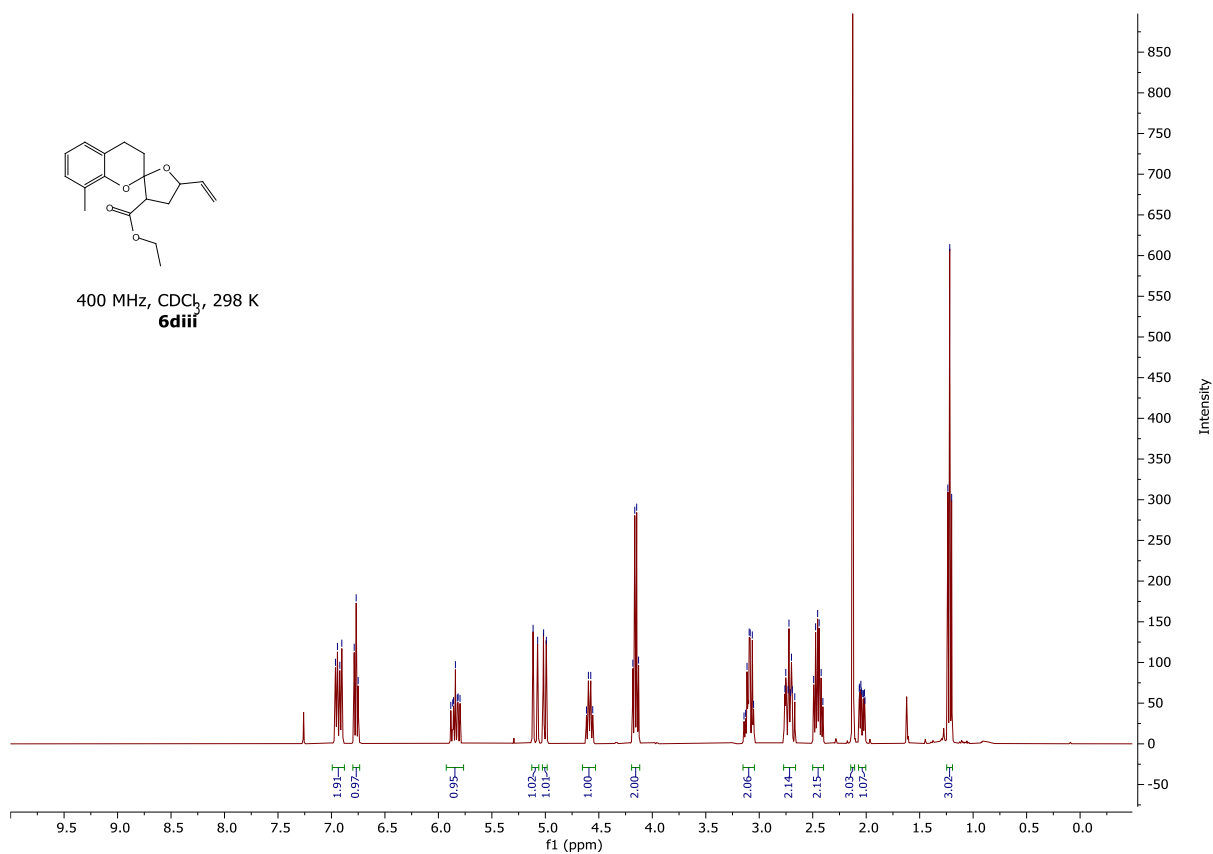


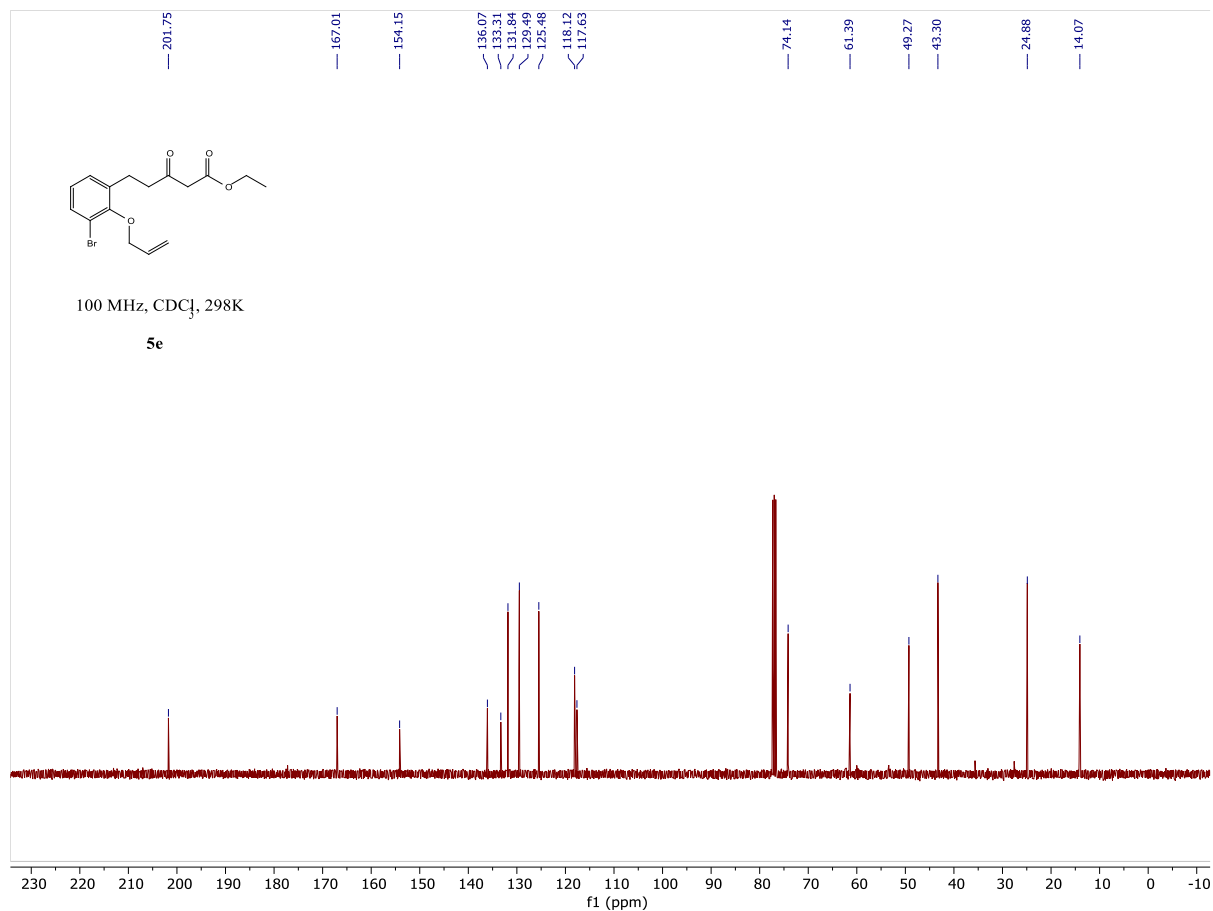
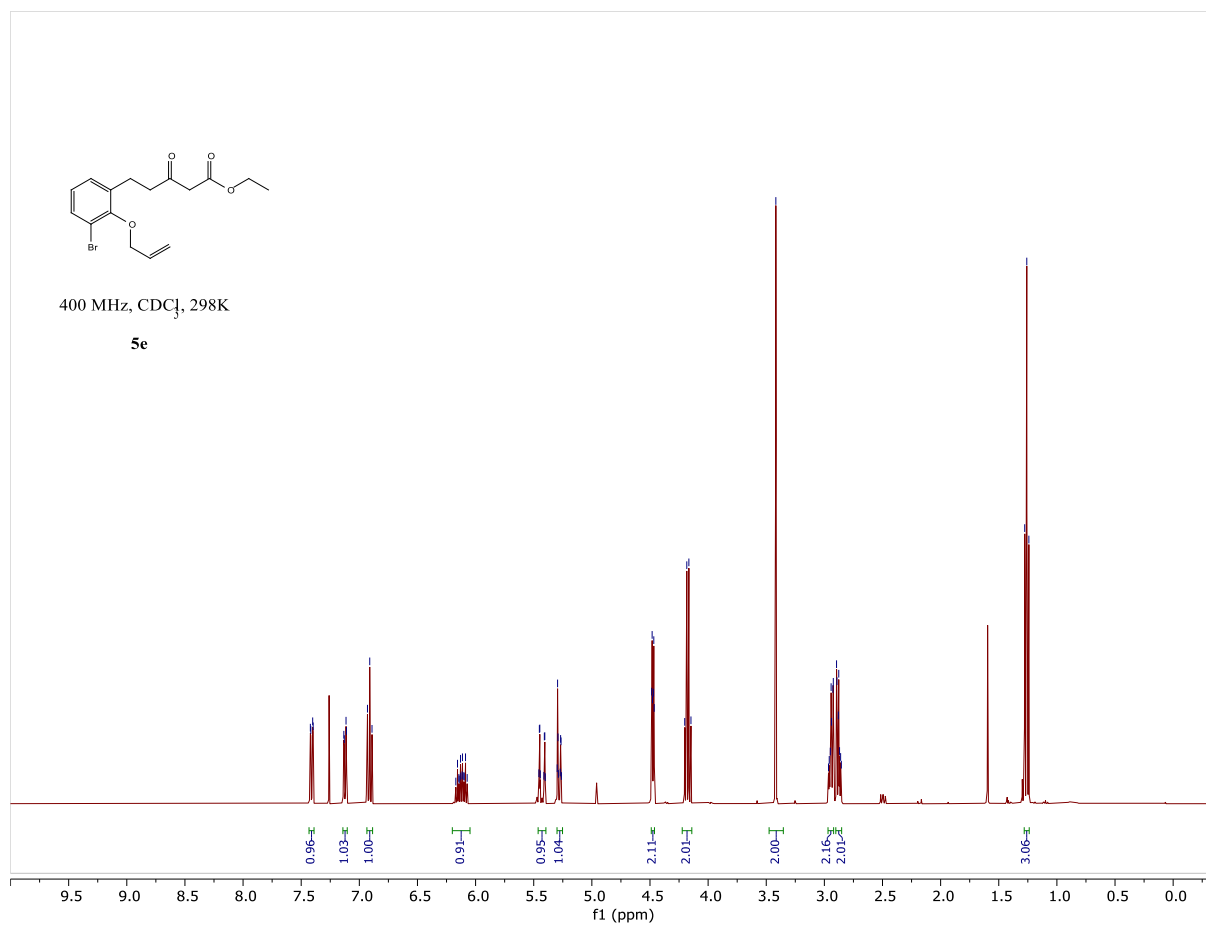


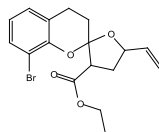
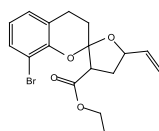
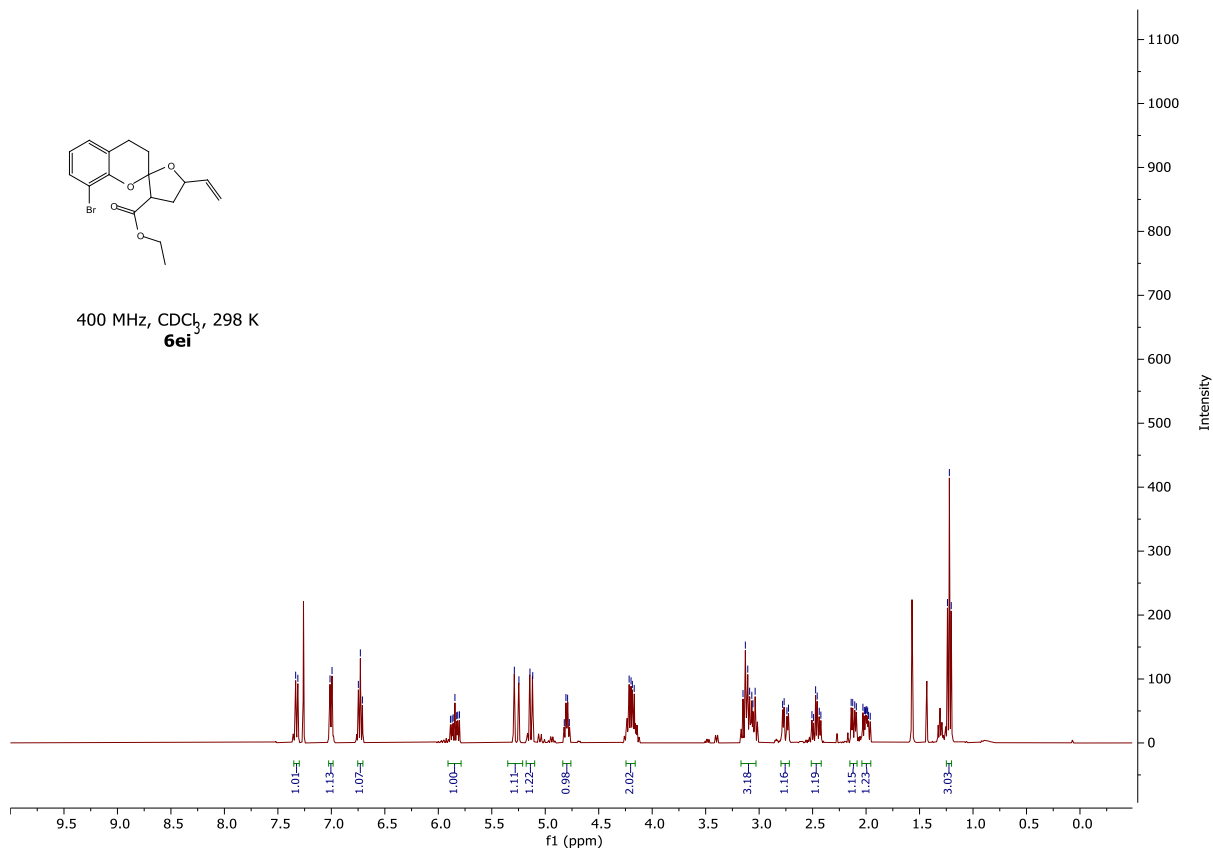
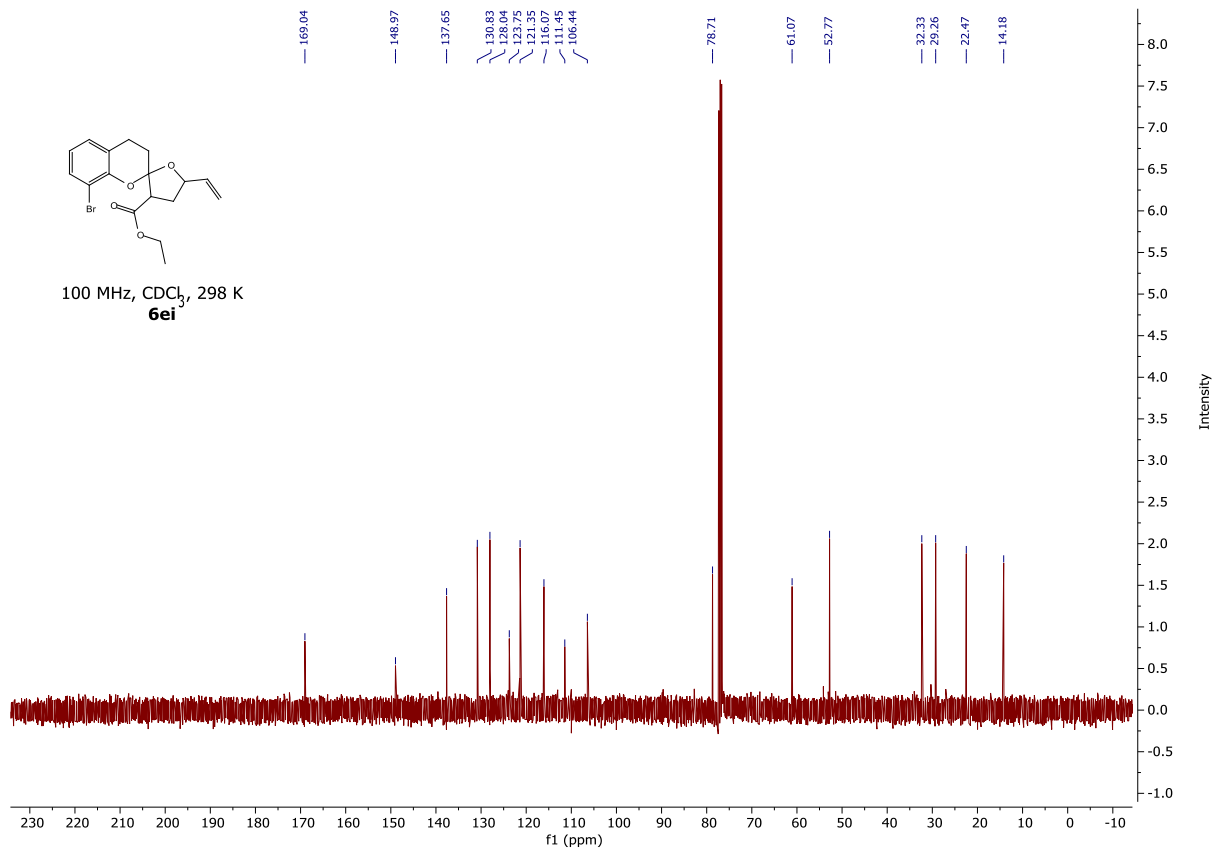


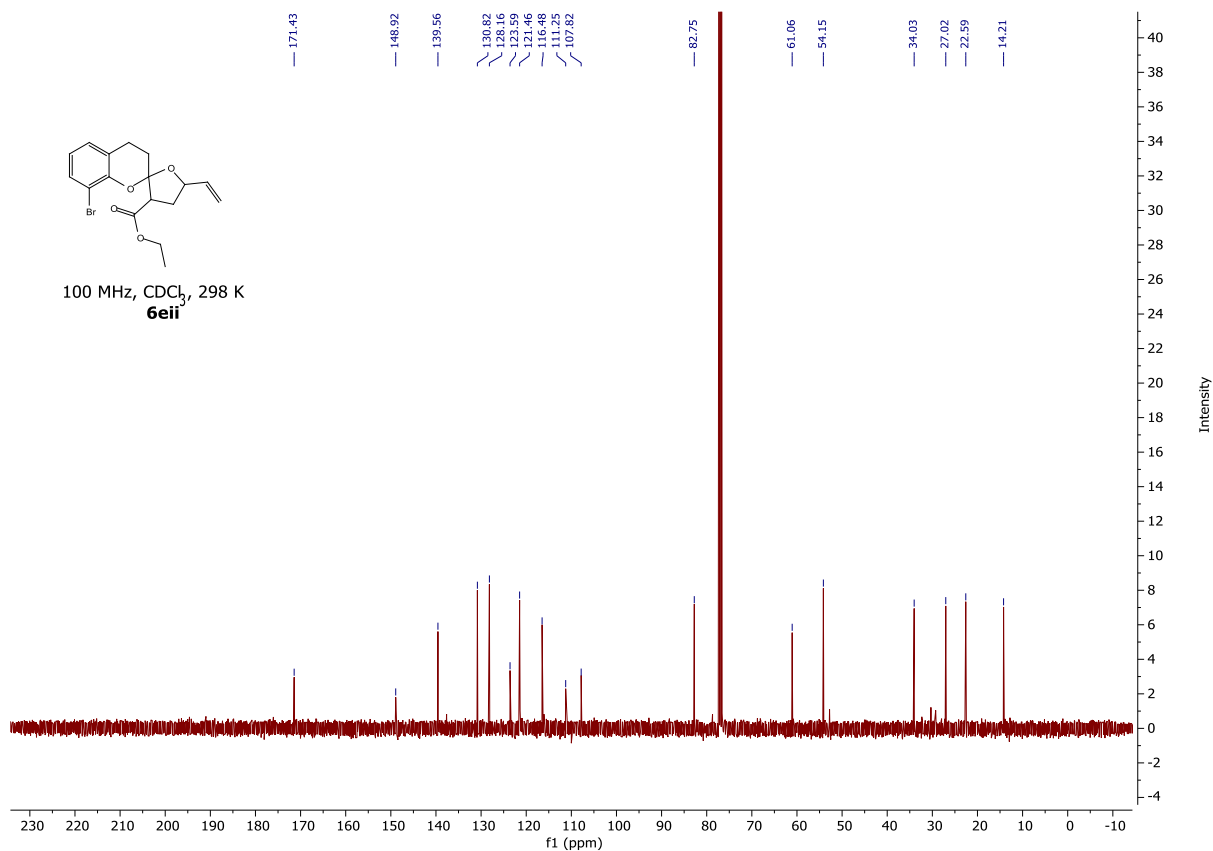
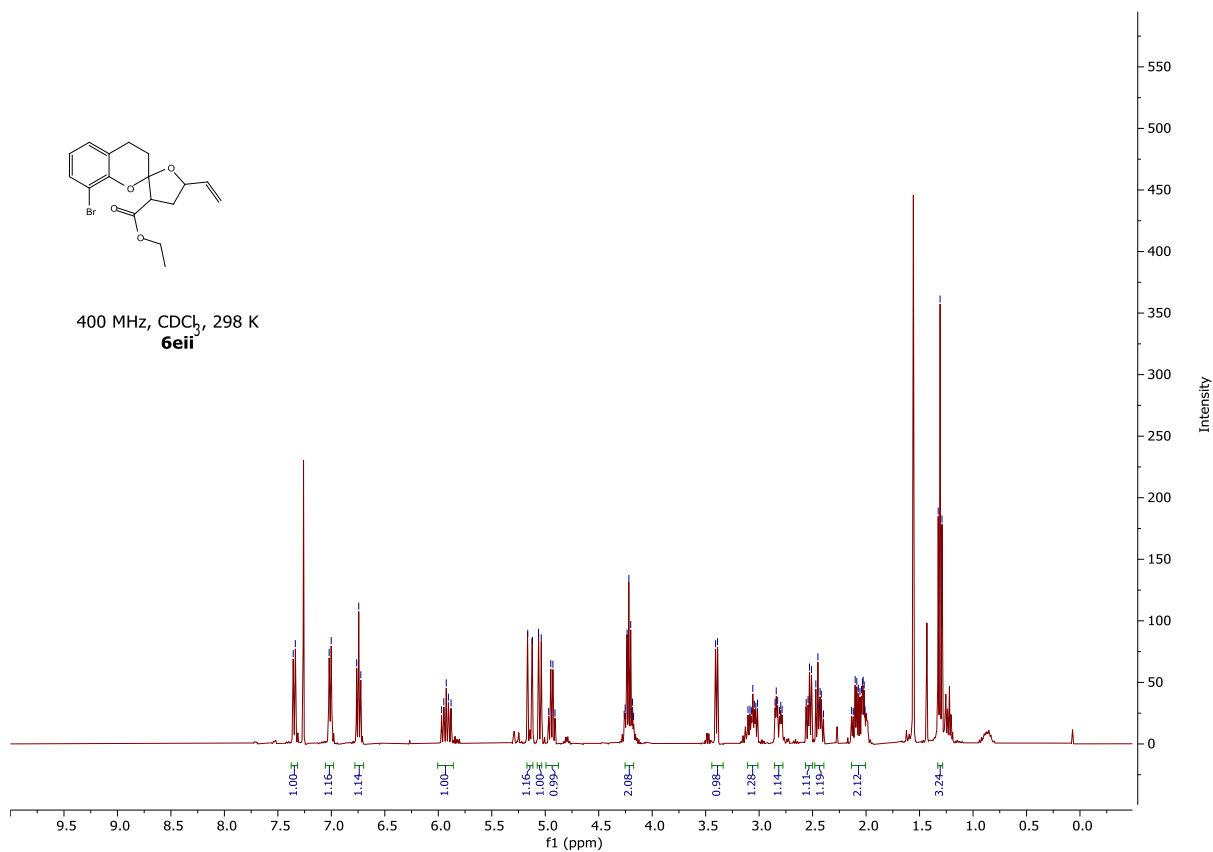


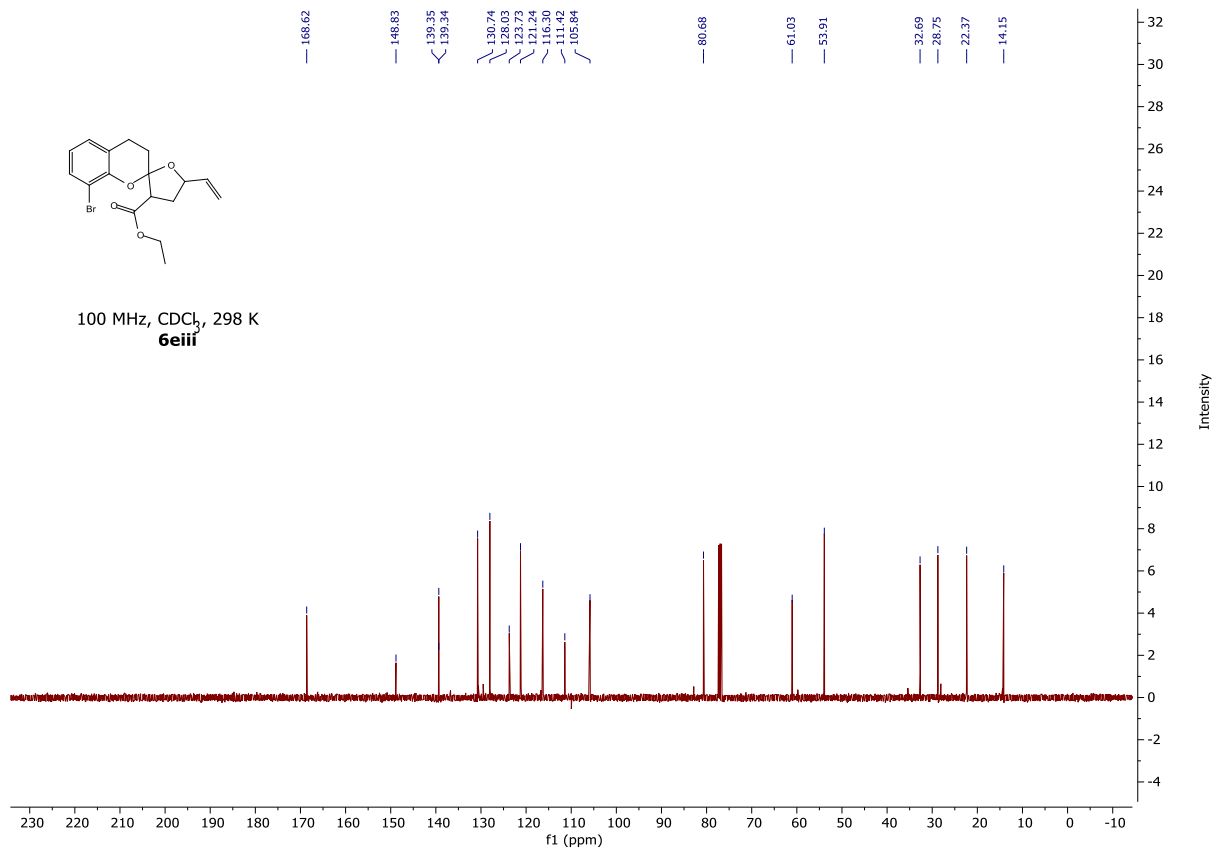
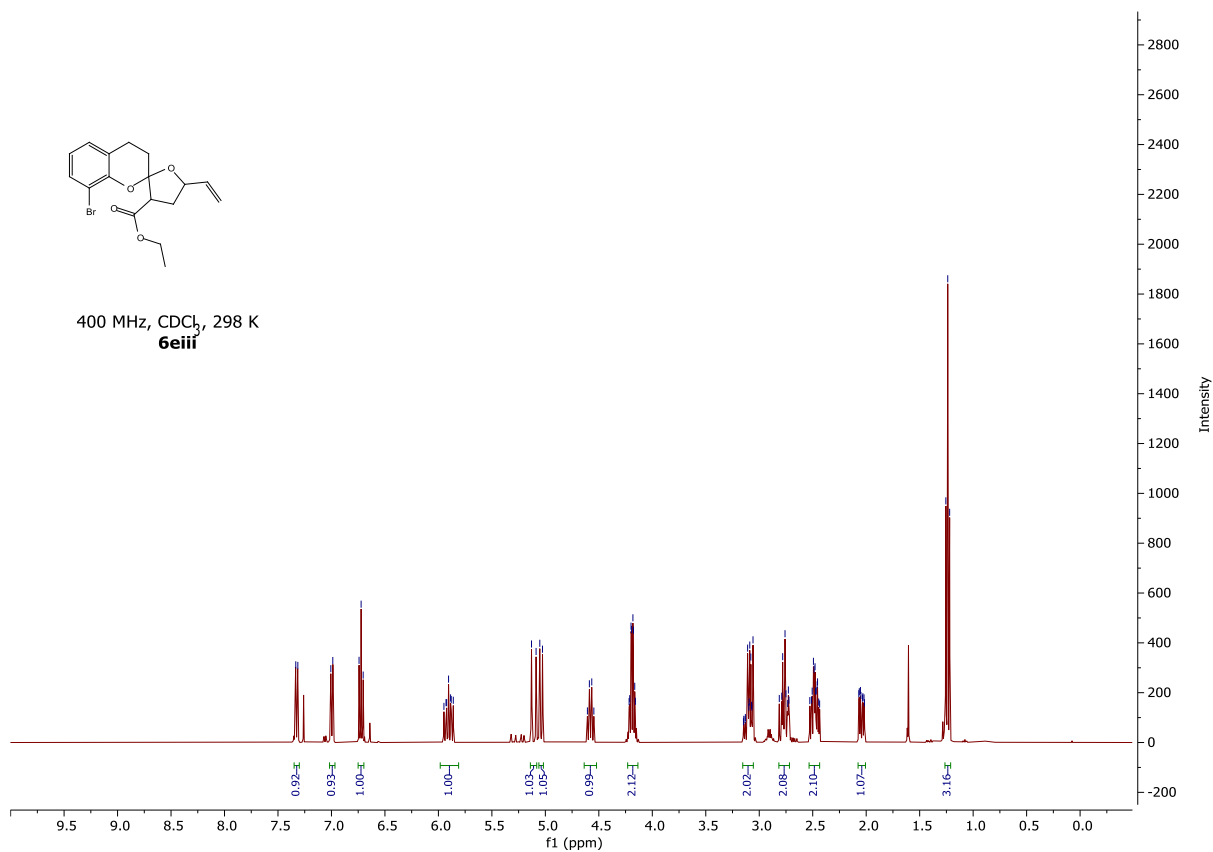


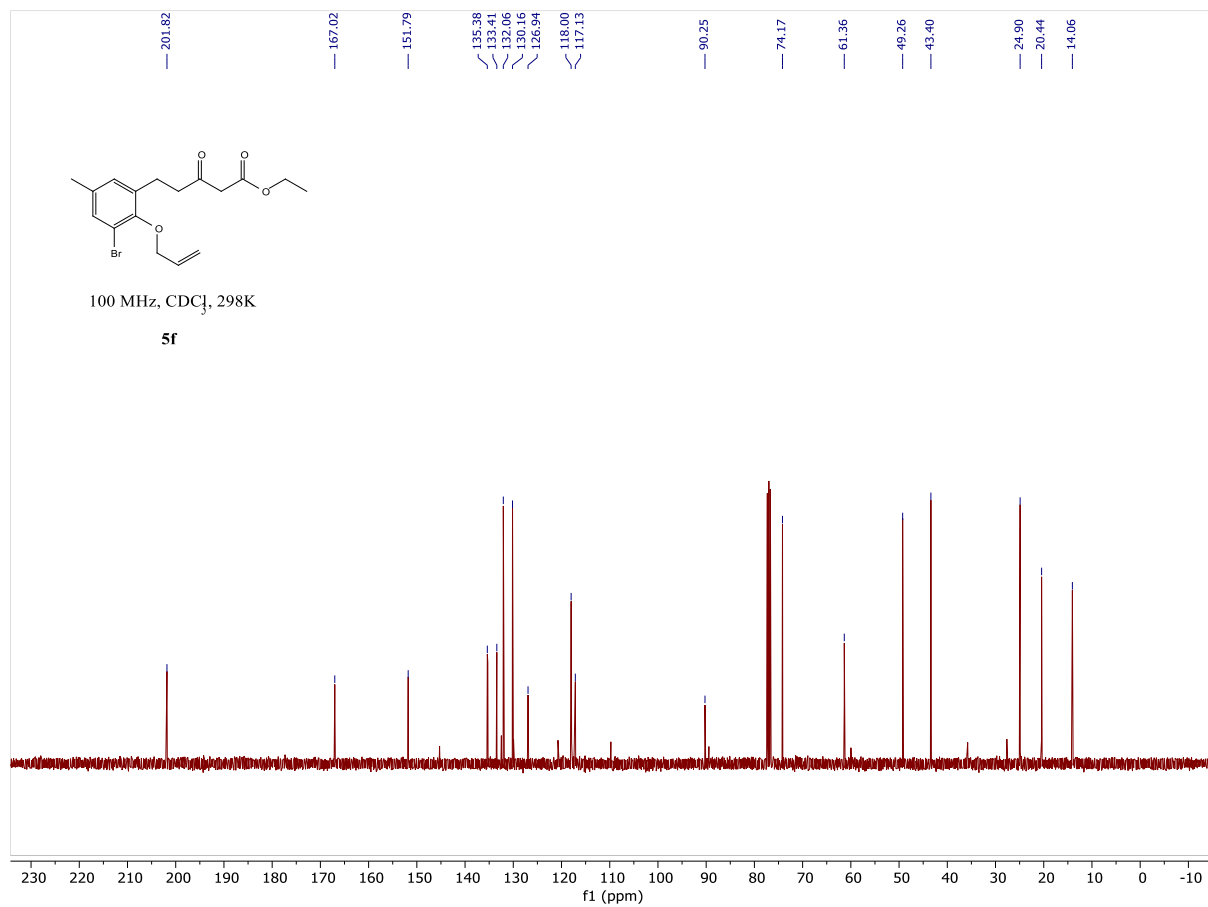
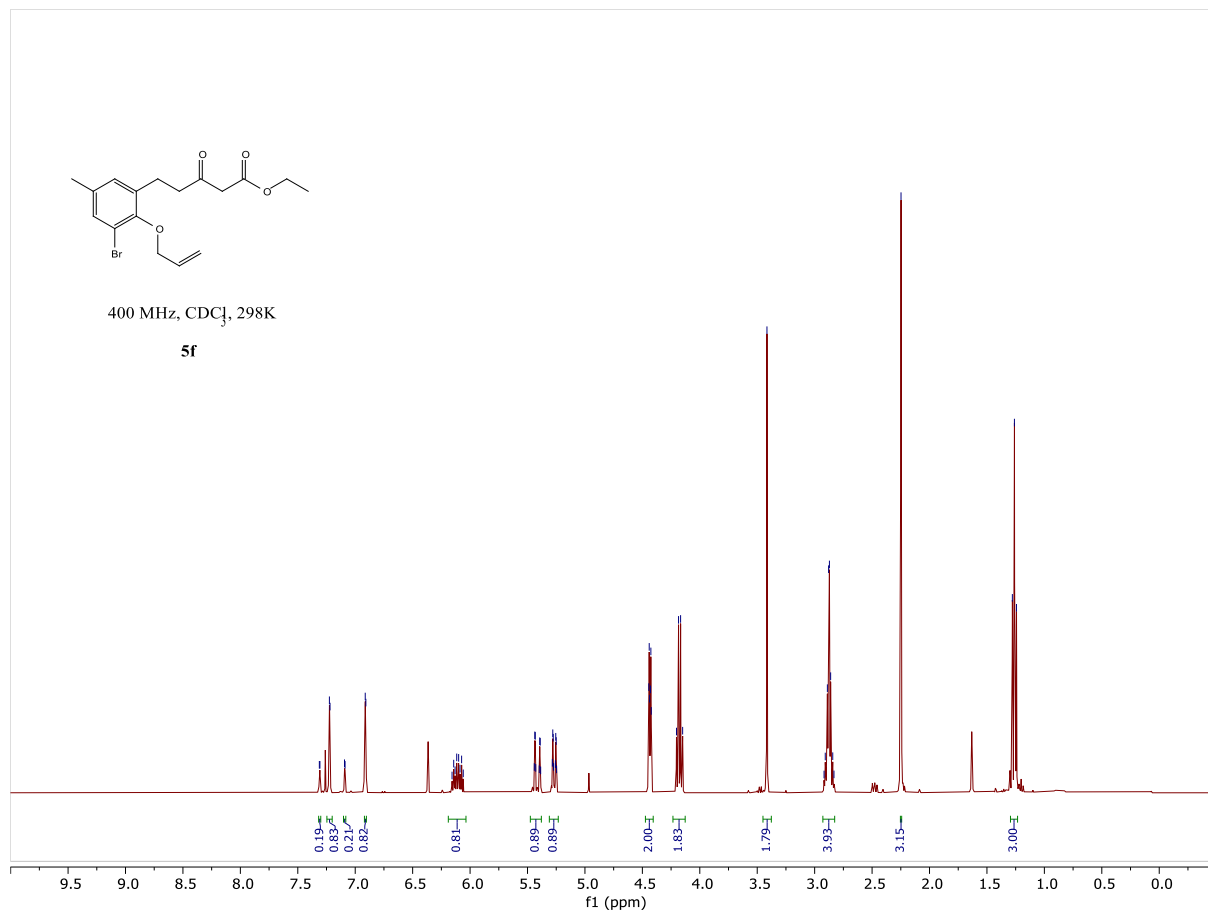


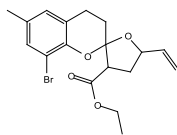


400 MHz, CDCl₃, 298 K
6ei100 MHz, CDCl₃, 298 K
6ei

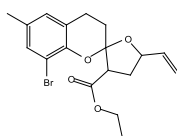
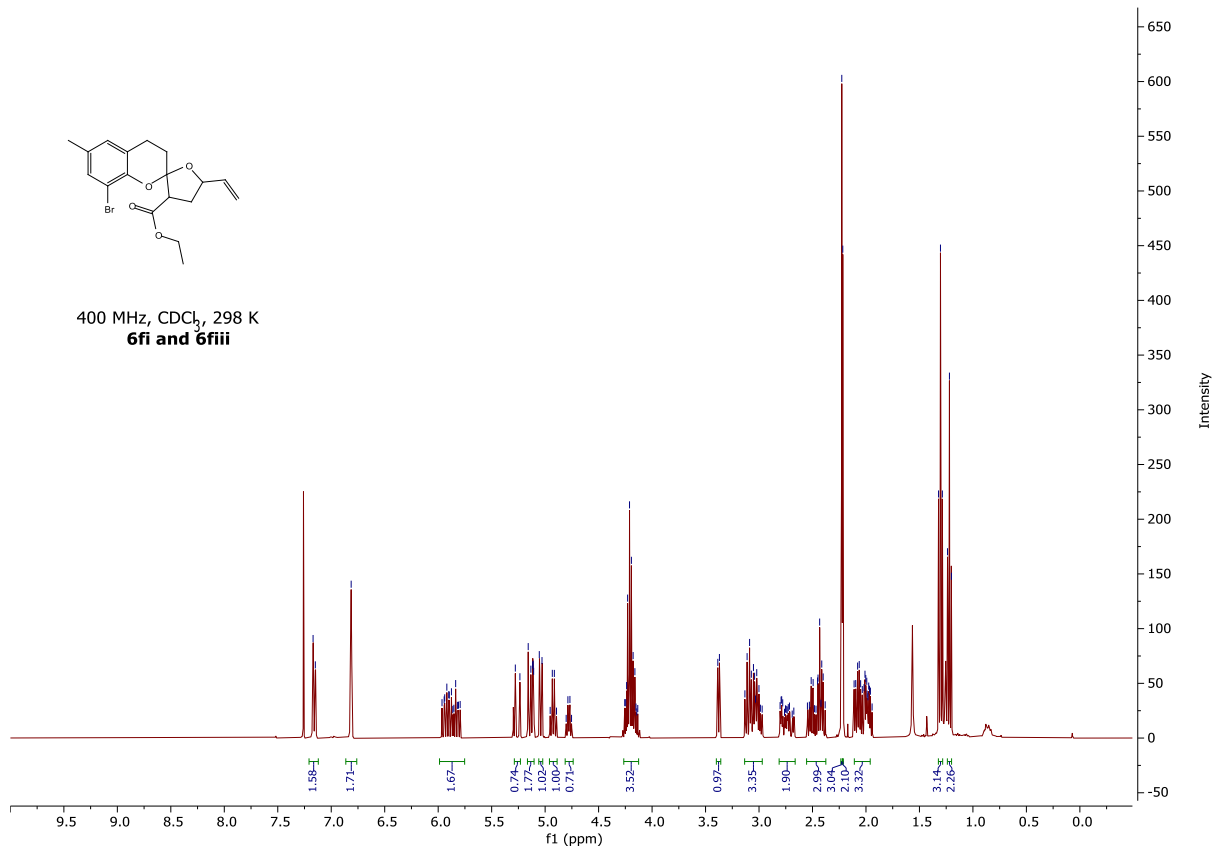




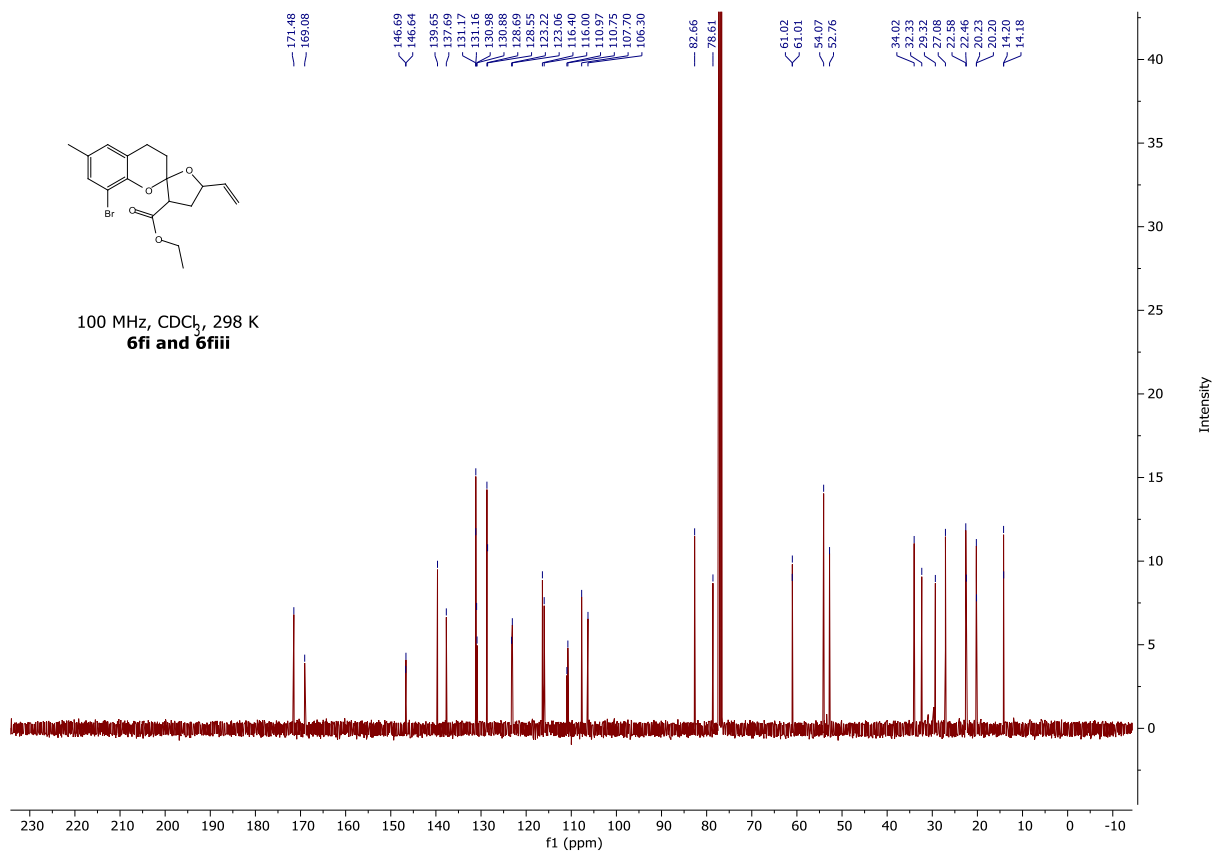


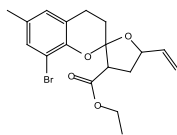


400 MHz, CDCl₃, 298 K
6fi and 6fiii

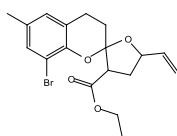
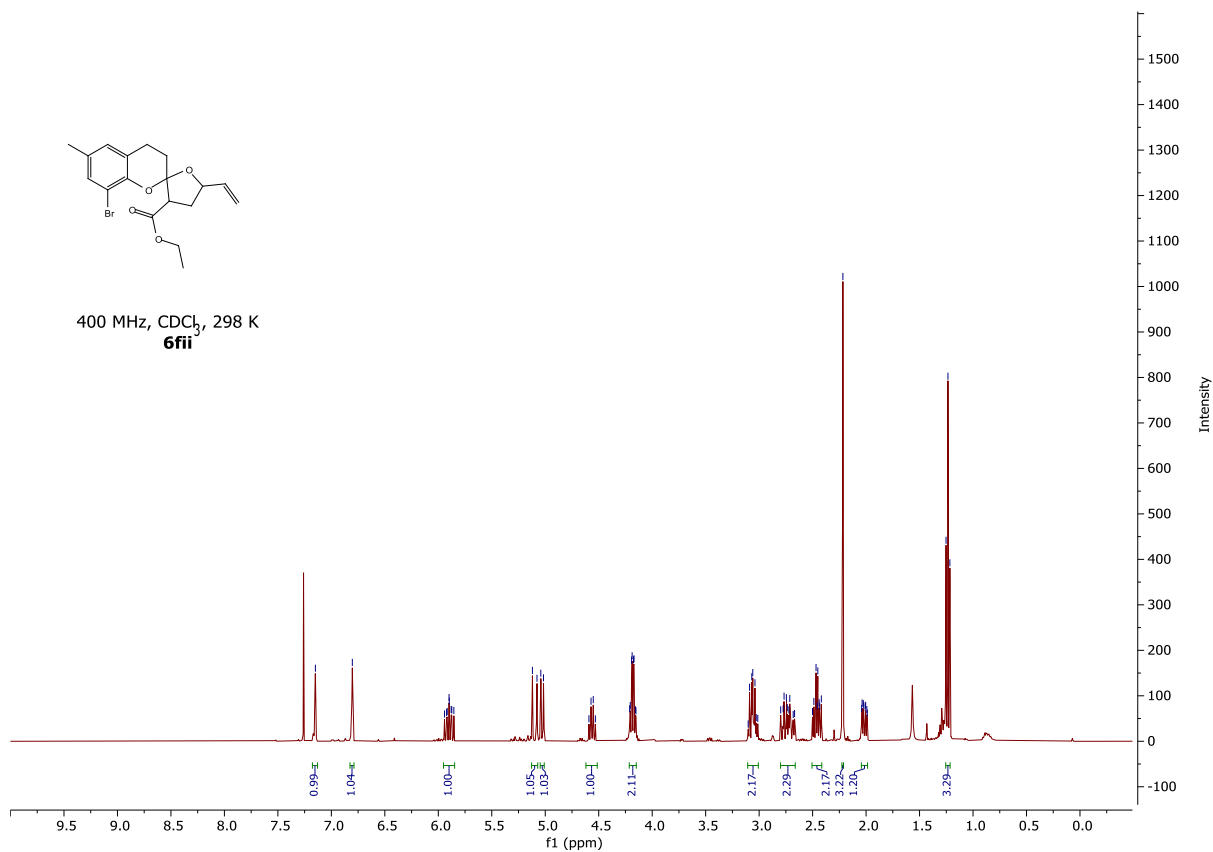


100 MHz, CDCl₃, 298 K
6fi and 6fiii





400 MHz, CDCl₃, 298 K
6fii



100 MHz, CDCl₃, 298 K
6fii

