

Supporting information

Solvent- and catalyst-free synthesis of Nitrogen-Containing Bicyclic derivatives through hemiaminal formation/ diastereoselective hetero Diels-Alder Reaction with Diazenes

L. Crouillebois, L. Pantaine, J. Marrot, V. Coeffard,* X. Moreau* and C. Greck

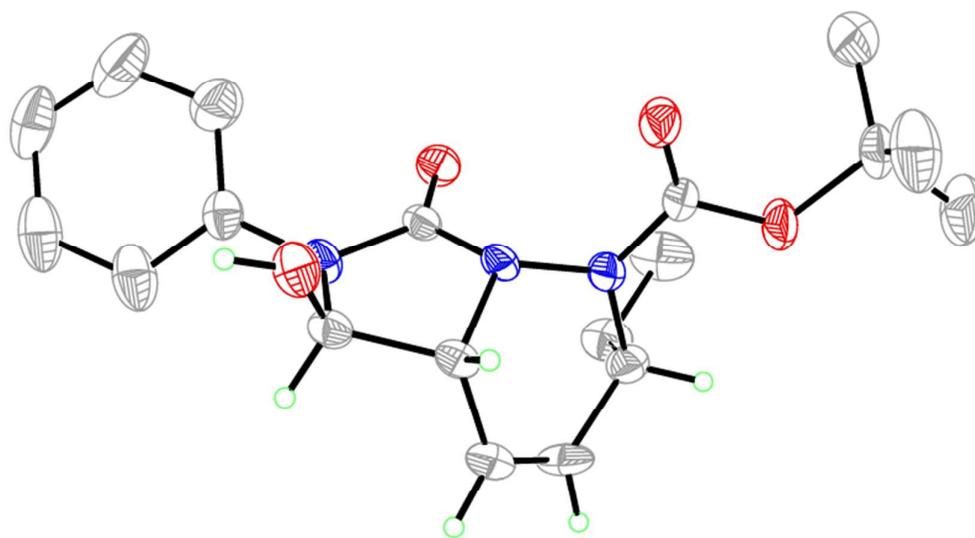
Institut Lavoisier de Versailles, UMR CNRS 8180, Université de Versailles-St-Quentin-en-Yvelines, 45 Avenue des États-Unis, 78035 Versailles cedex, France.

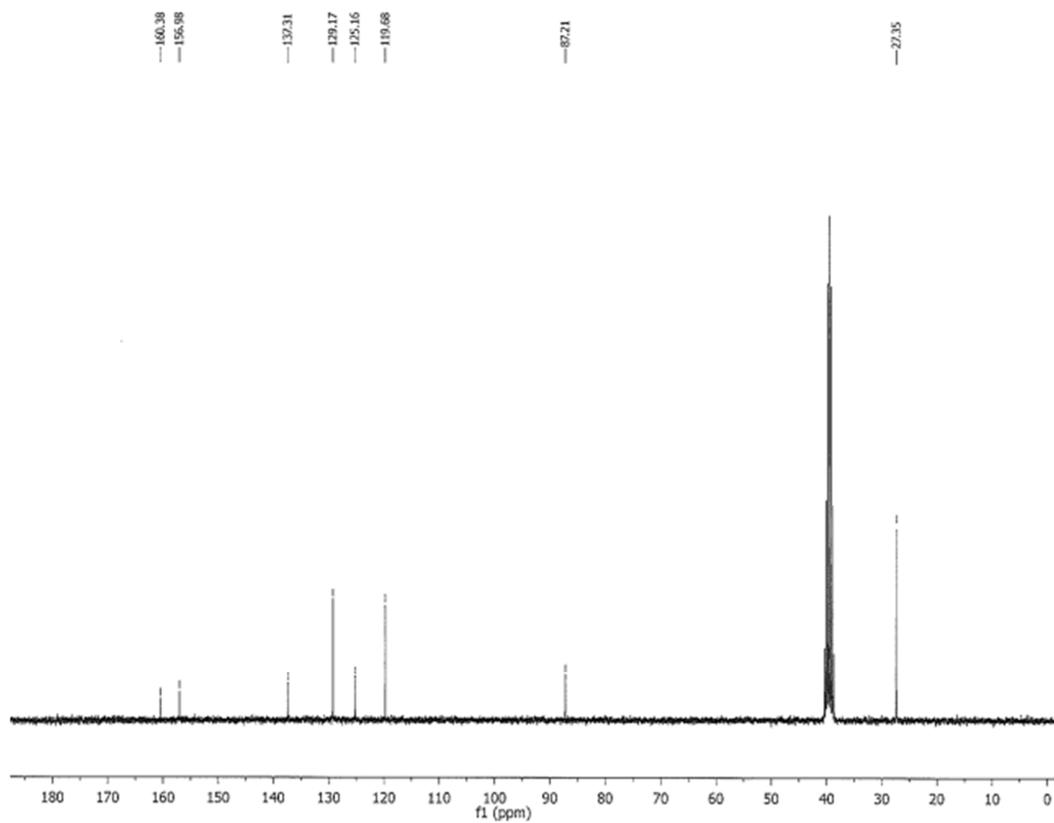
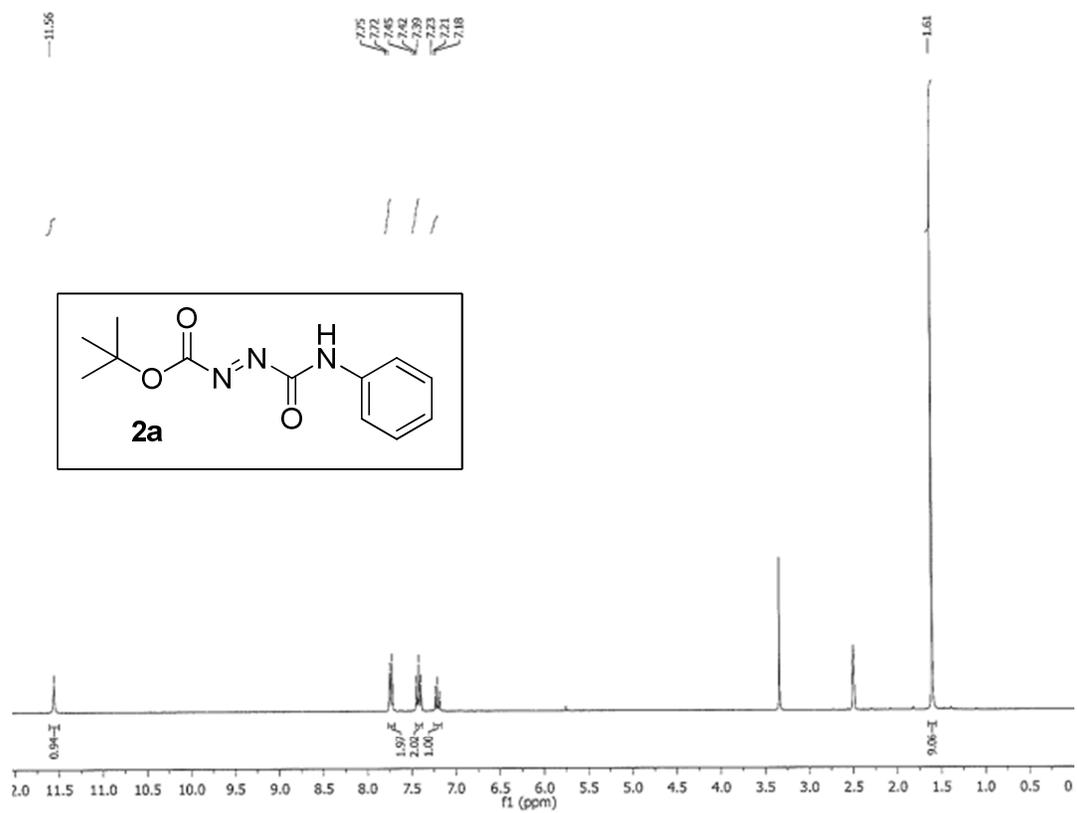
Contents

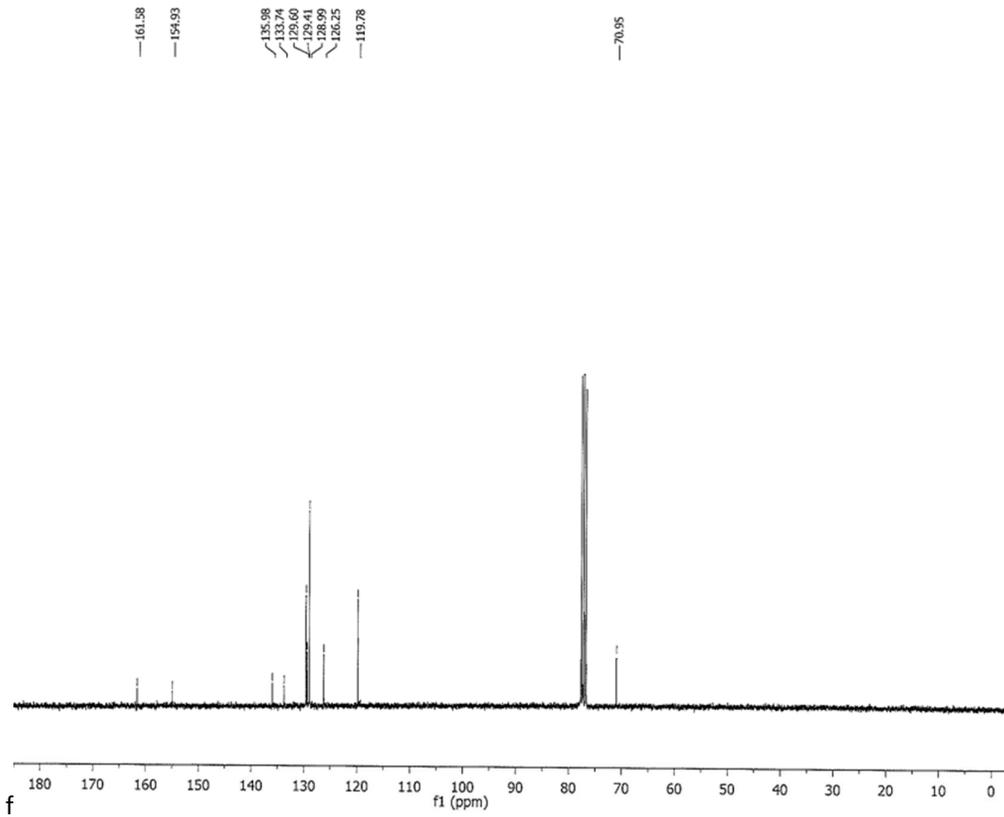
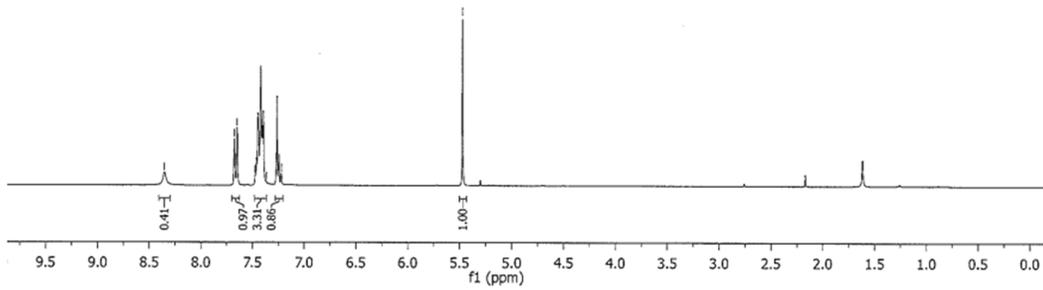
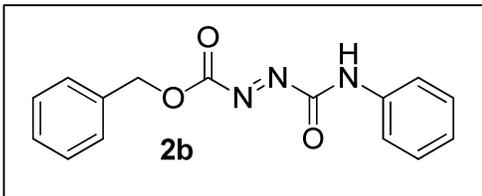
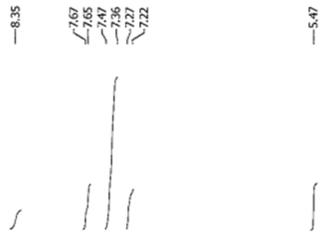
Crystal structure of 4	S2
NMR spectra of the products	S3

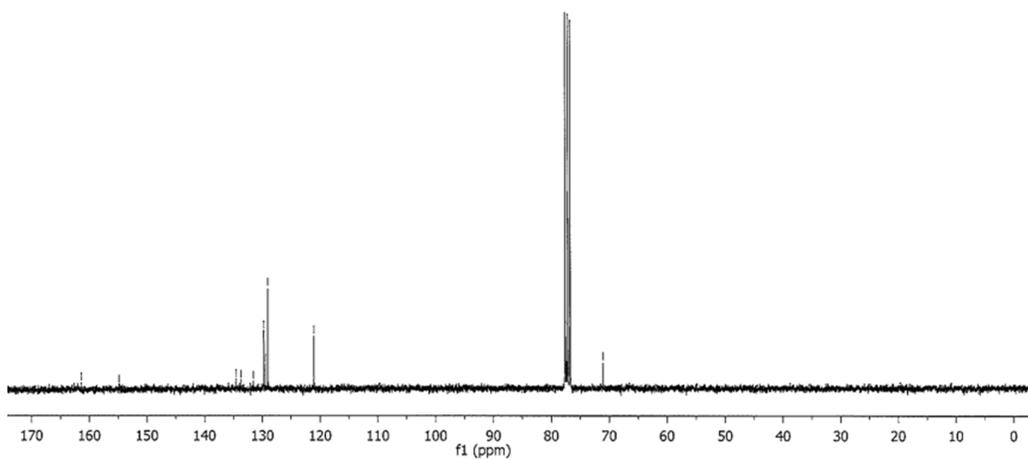
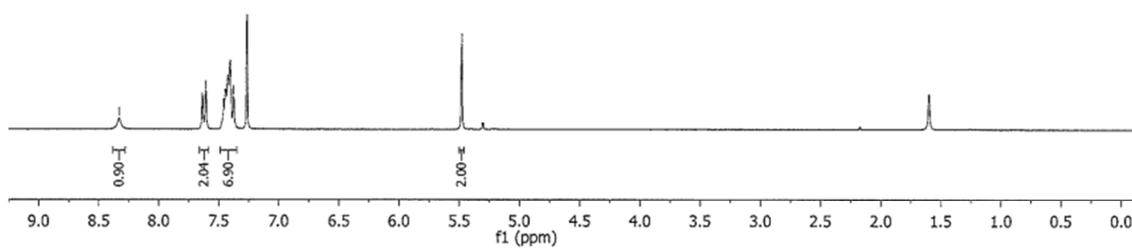
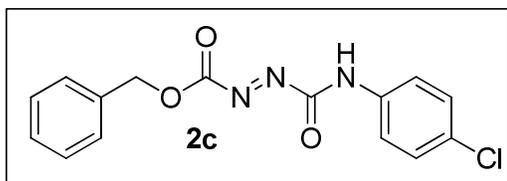
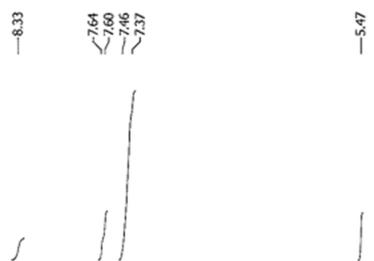
Crystal Structure of **4**

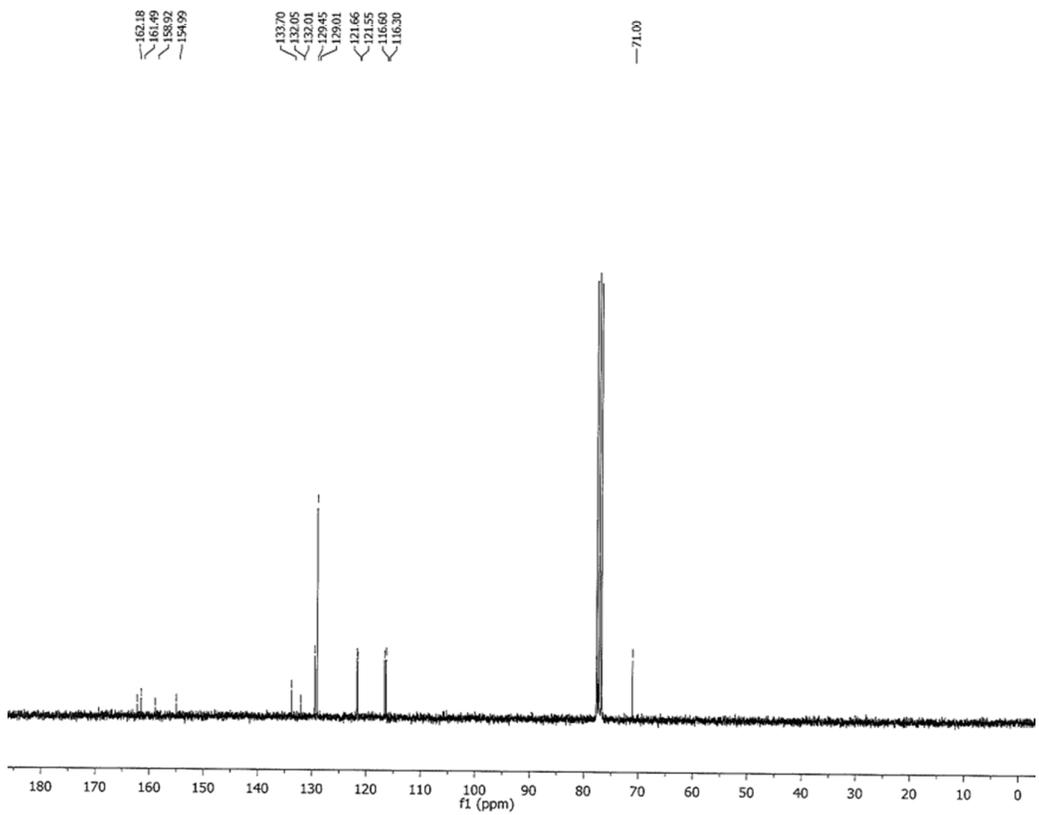
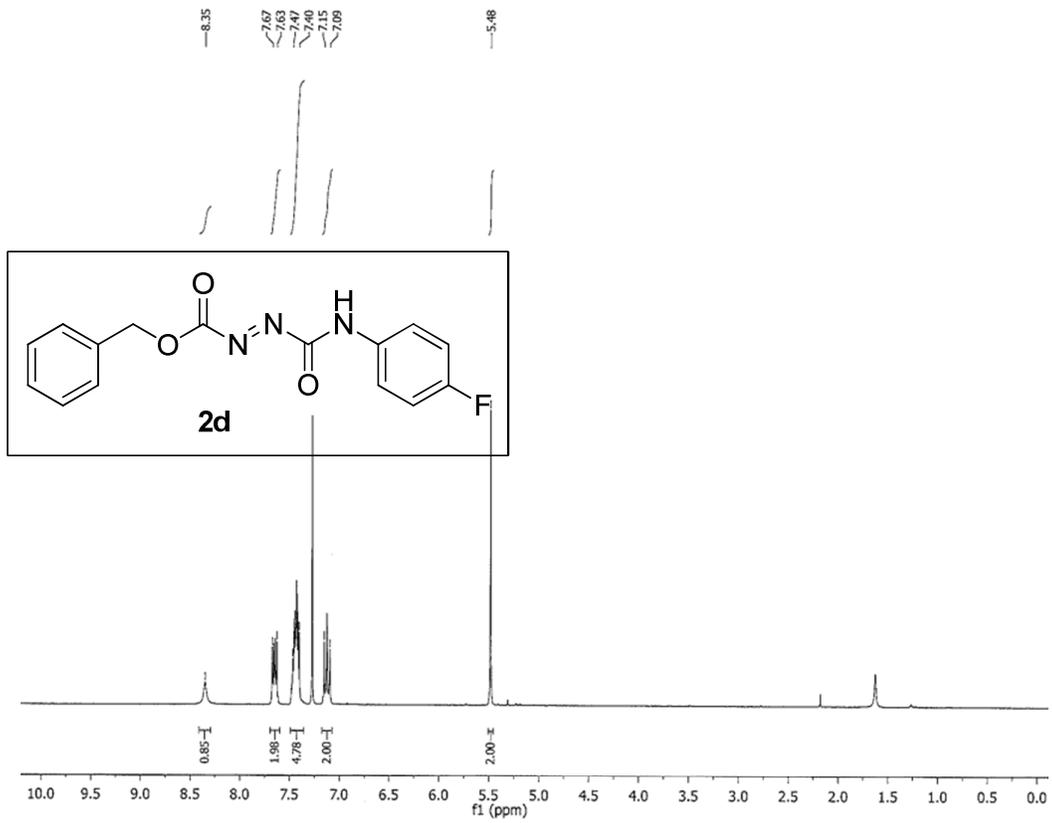
Crystals suitable for X-ray analysis were grown by slow evaporation at room temperature of a solution of **4** in chloroform. $C_{19}H_{25}N_3O_4$, $M_w = 359.42$, orthorhombic, space group $P2_12_12_1$; dimensions: $a = 6.9301(5) \text{ \AA}$, $b = 15.6506(12) \text{ \AA}$, $c = 22.8010(18) \text{ \AA}$, $V = 2473.0(3) \text{ \AA}^3$; $Z = 4$; $\mu = 0.07 \text{ mm}^{-1}$; 107991 reflections measured at room temperature; independent reflections: 7213 [$4661 \text{ Fo} > 4\sigma(\text{Fo})$]; data were collected up to a $2\Theta_{\text{max}}$ value of 60.1° (99.7 % coverage). Number of variables: 240; $R_1 = 0.087$, $wR_2 = 0.266$, $S = 1.08$; highest residual electron density 0.29 e.\AA^{-3} ; CCDC = 1036052.

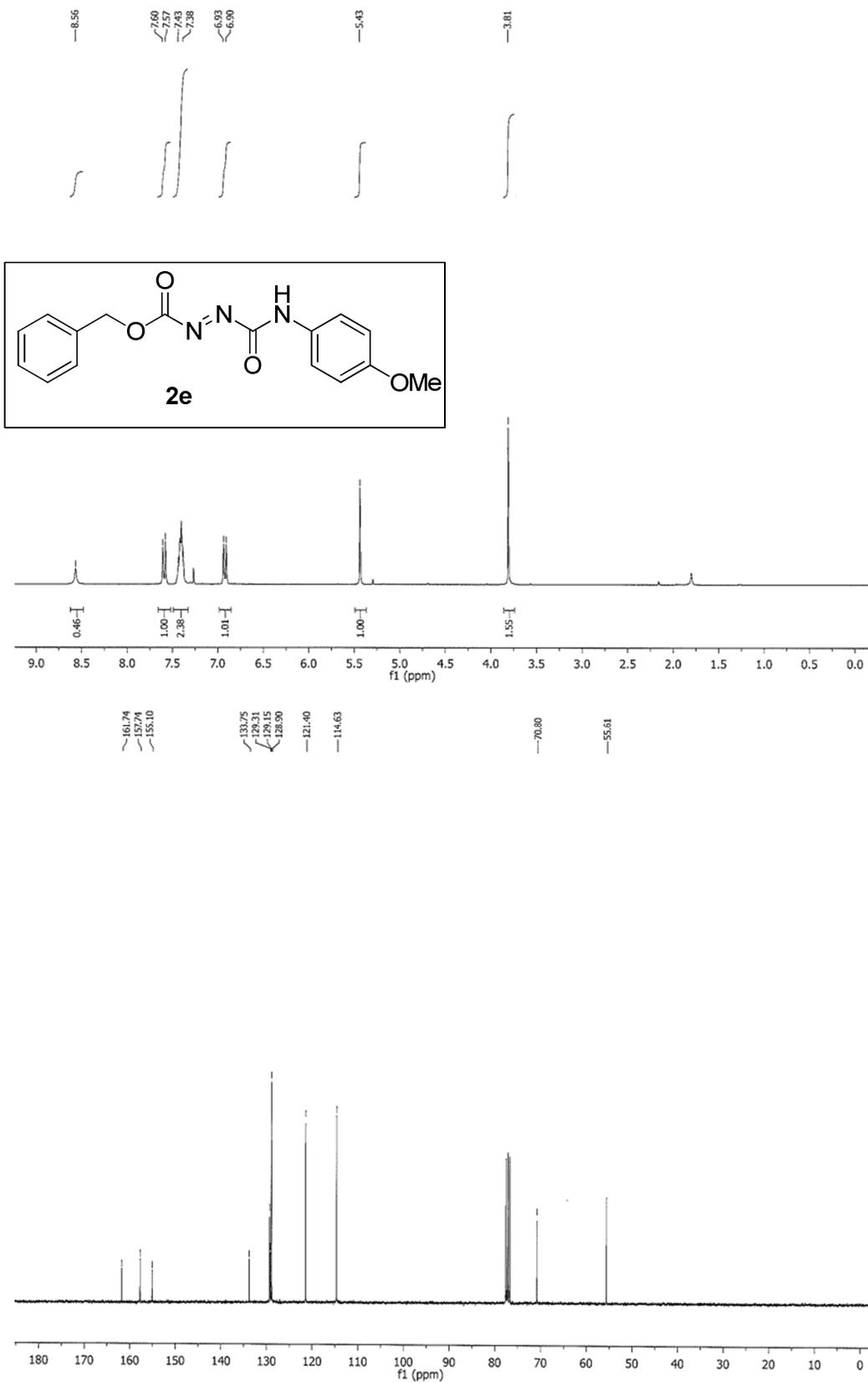


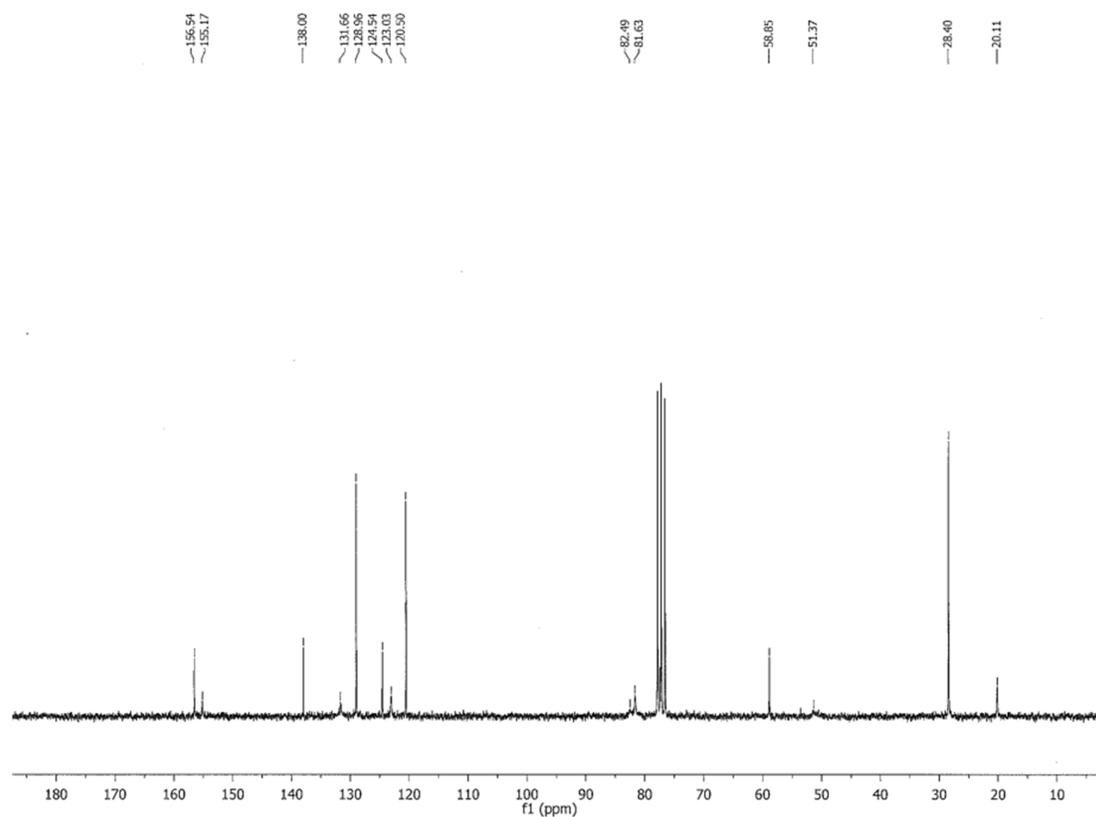
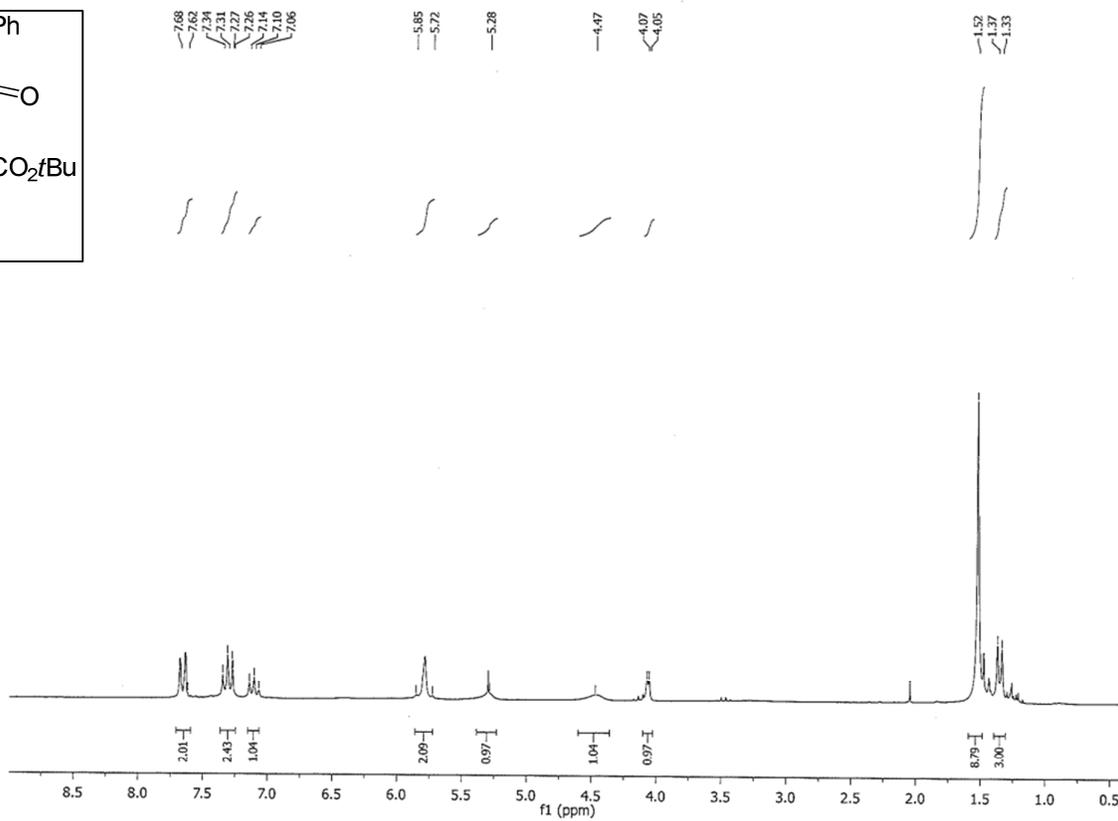
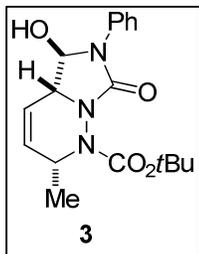


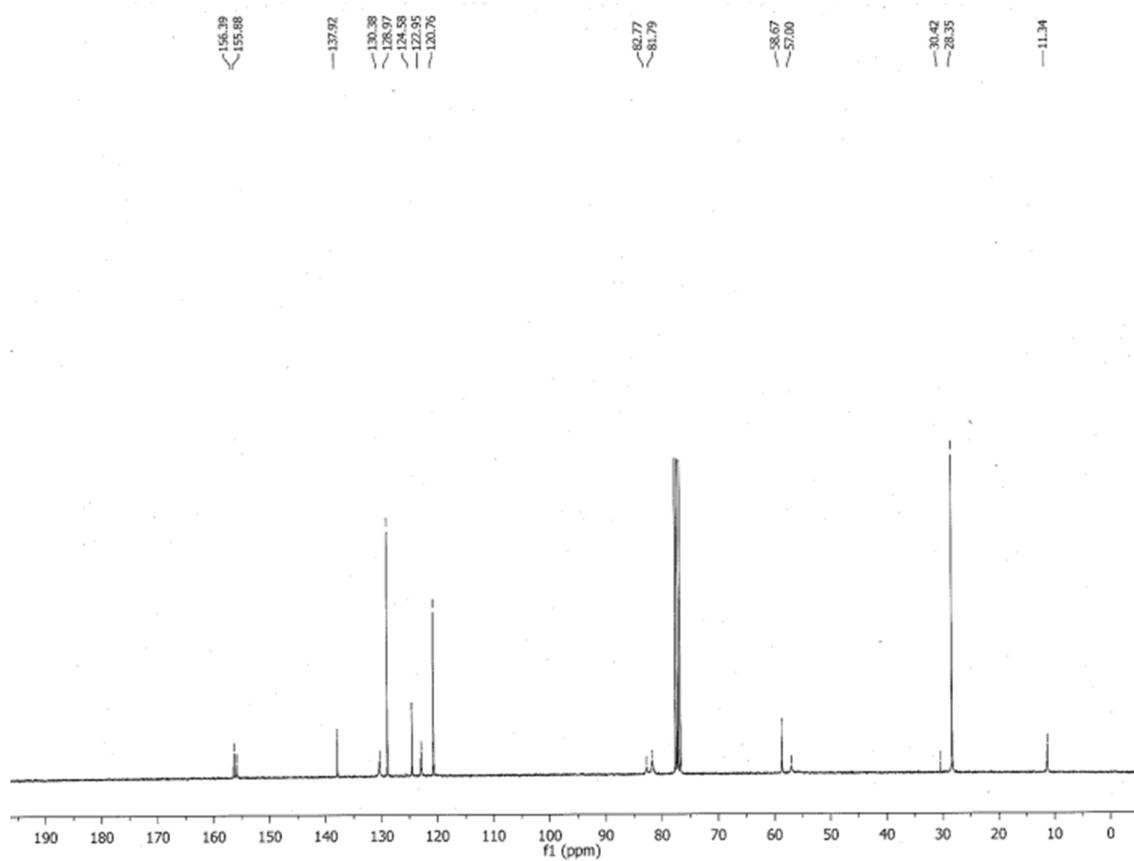
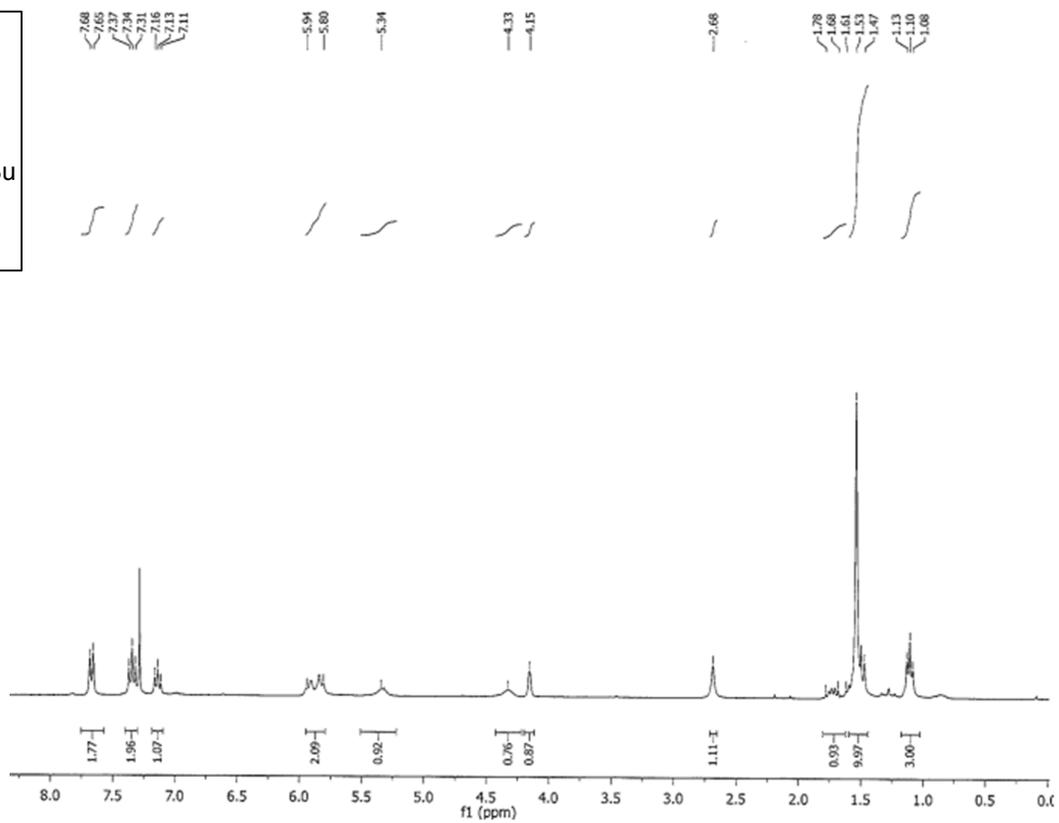
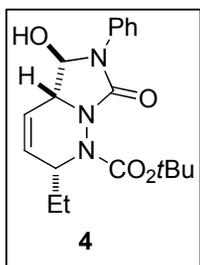


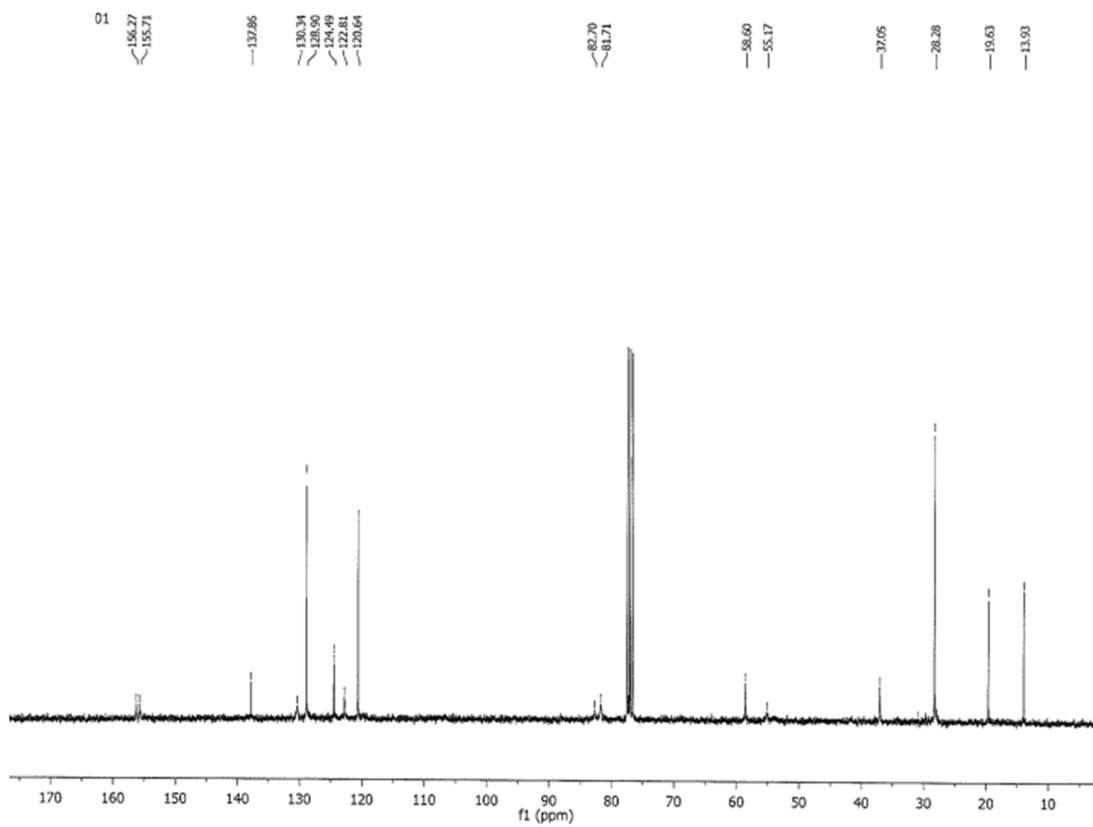
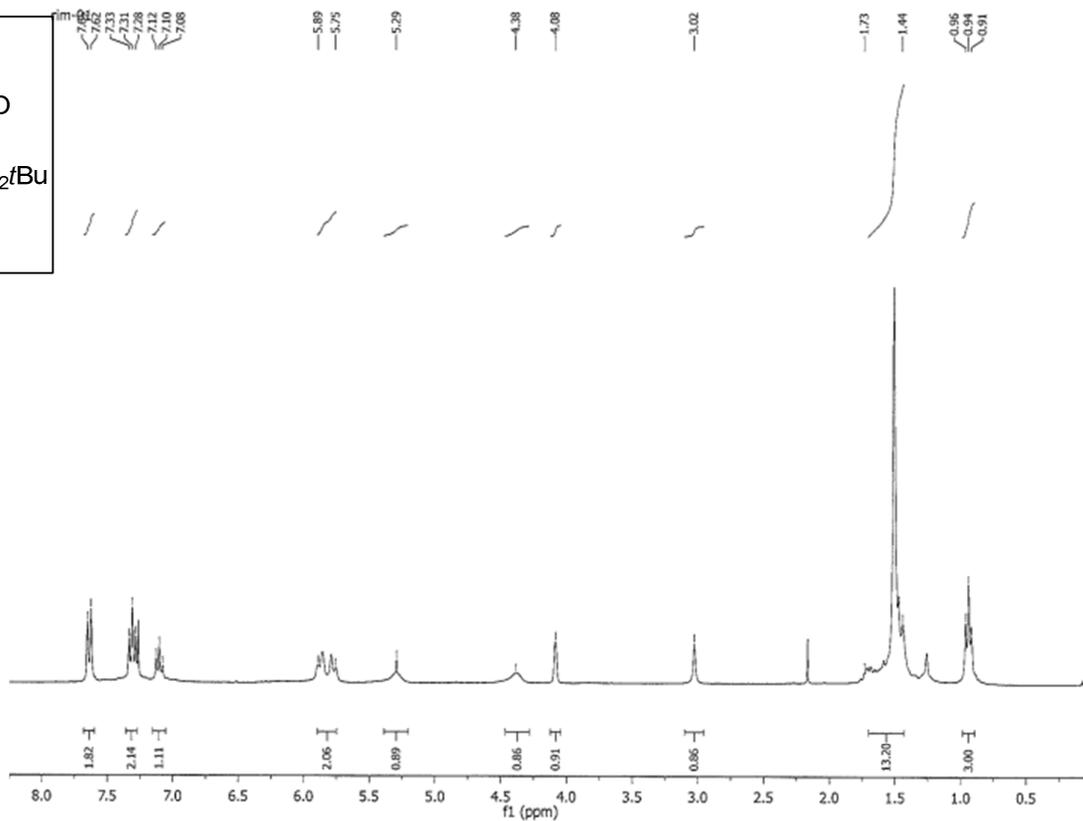
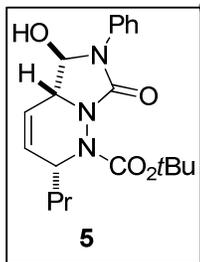


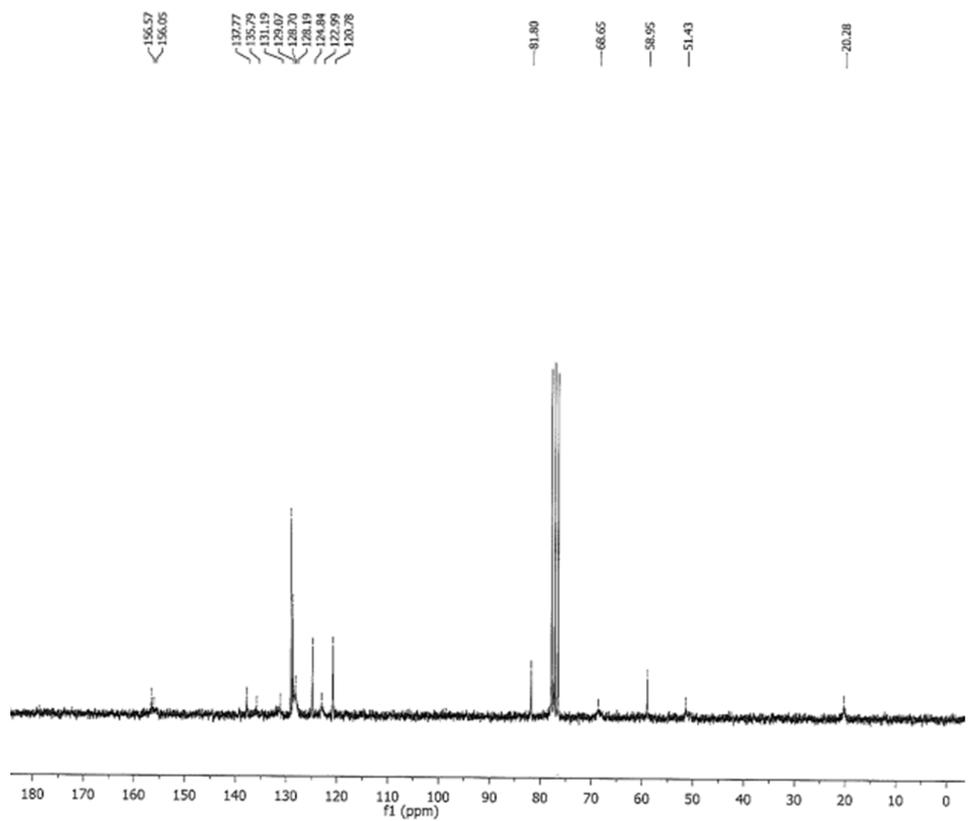
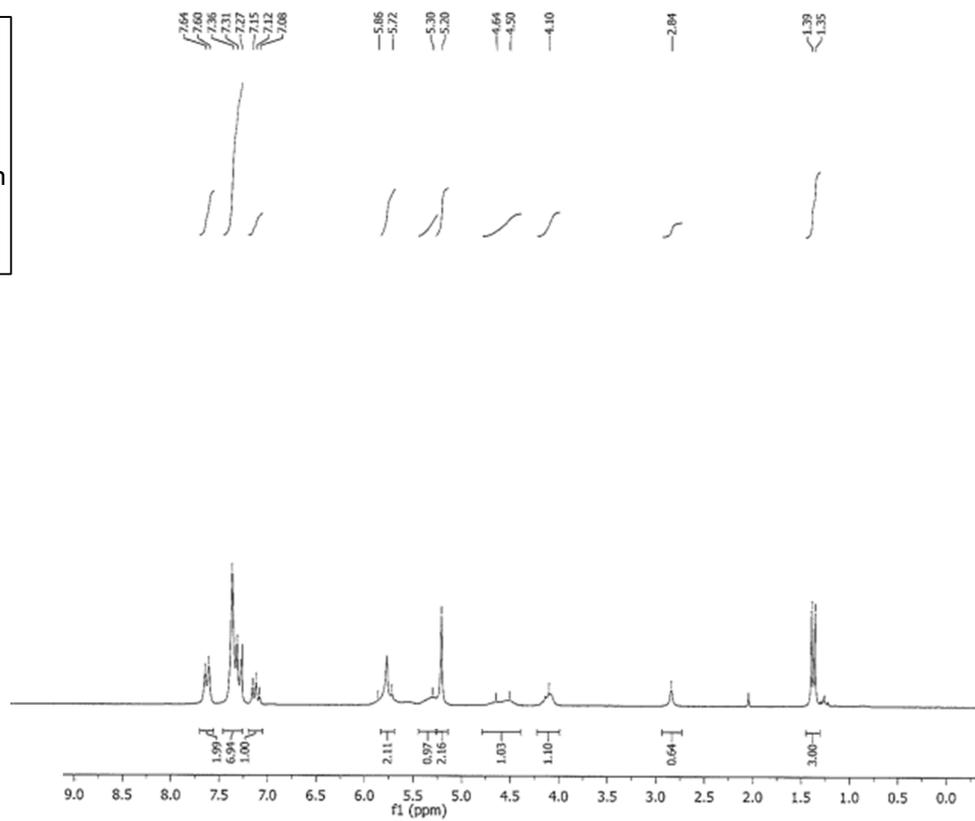
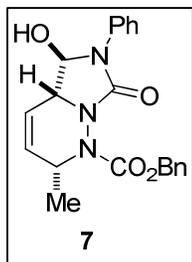


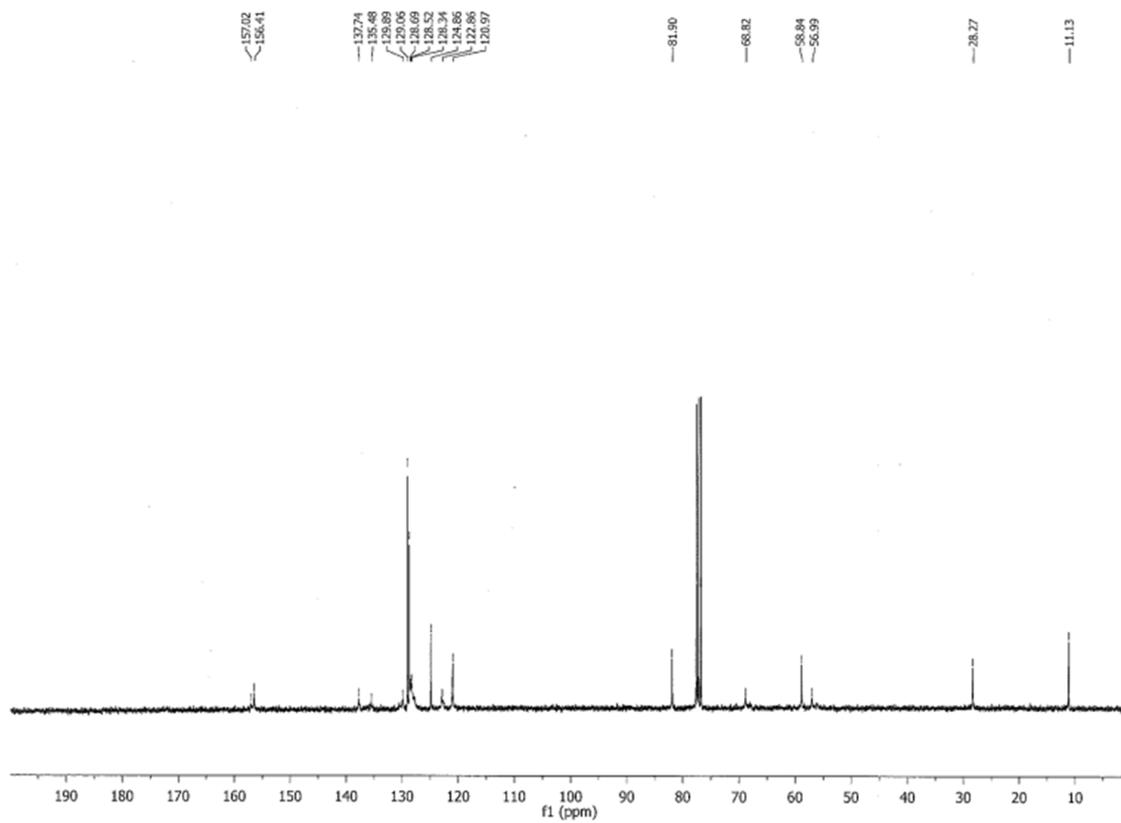
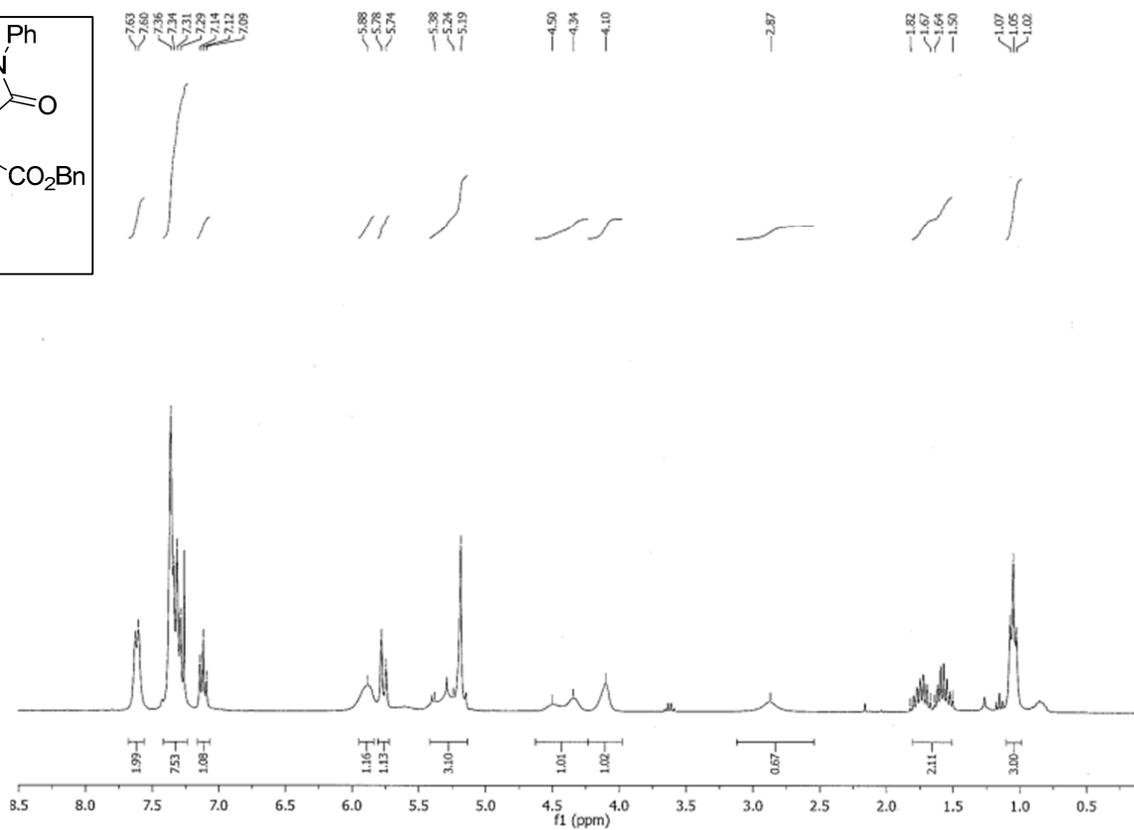
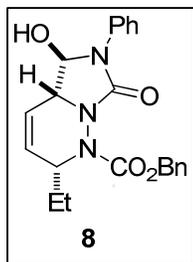


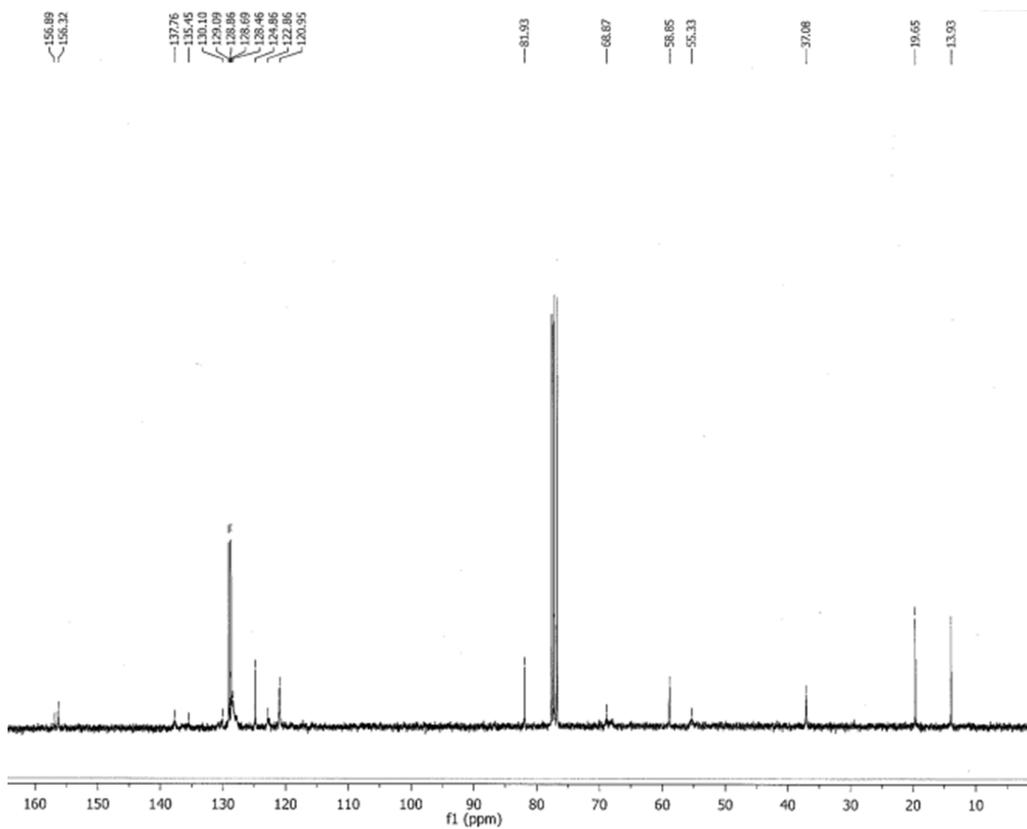
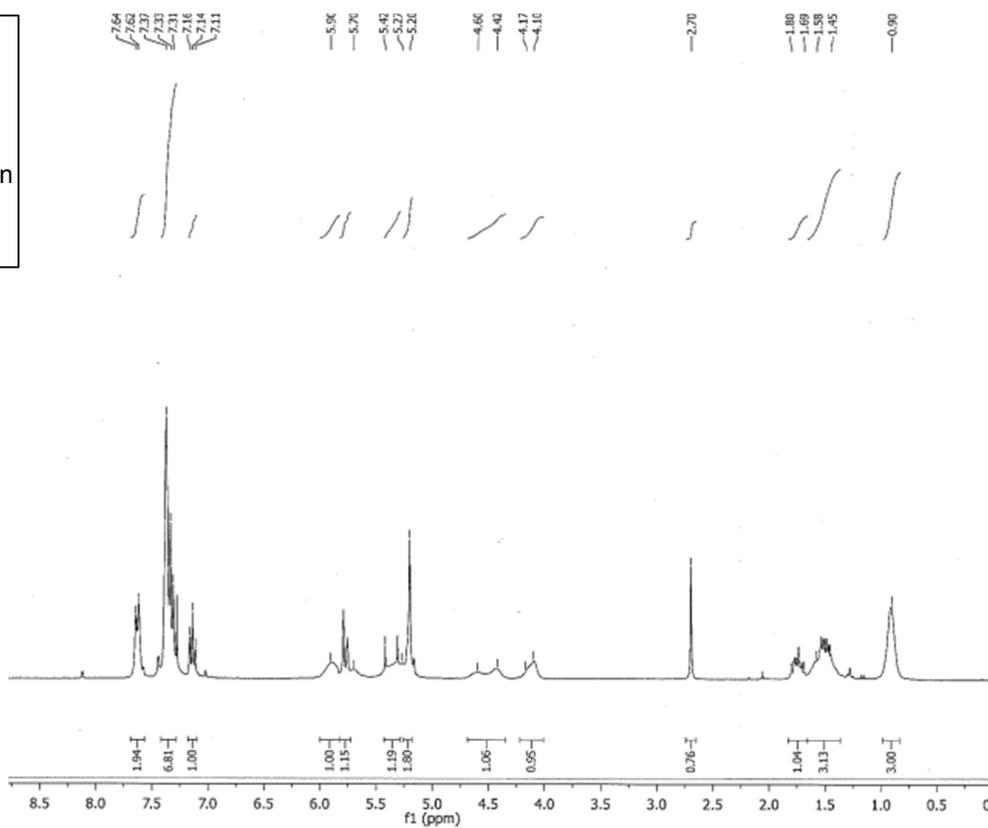
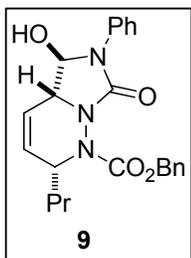


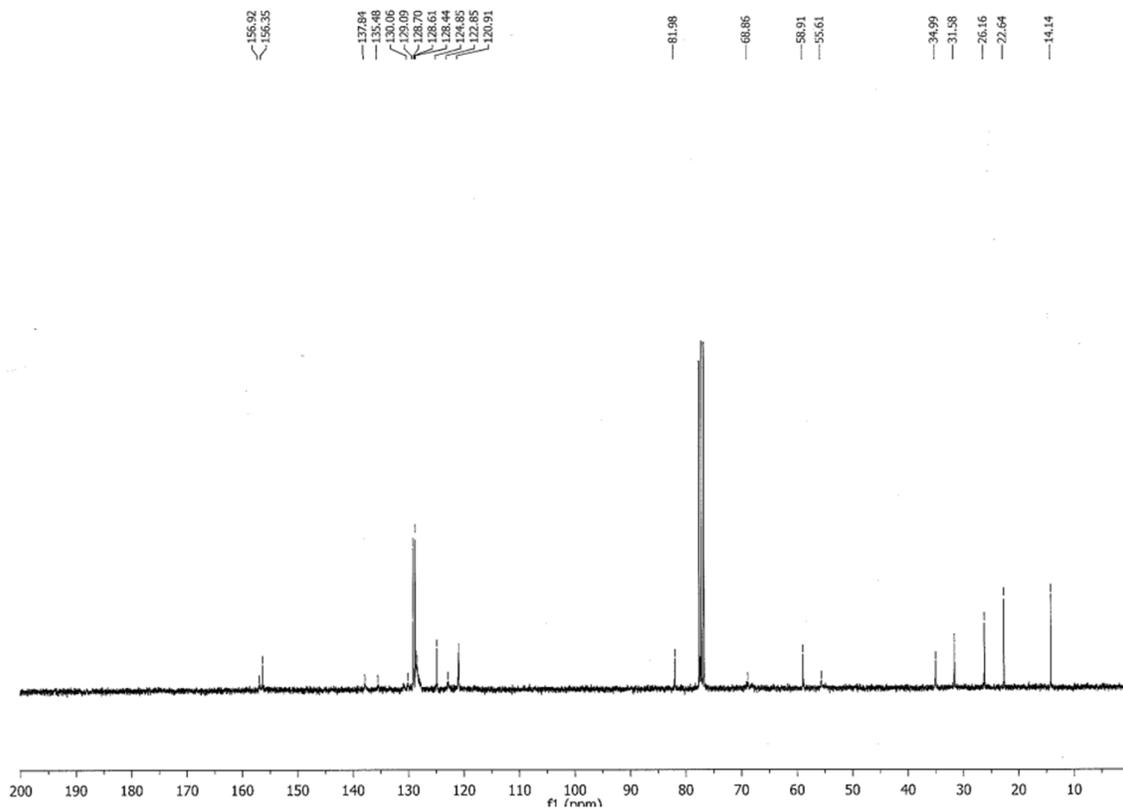
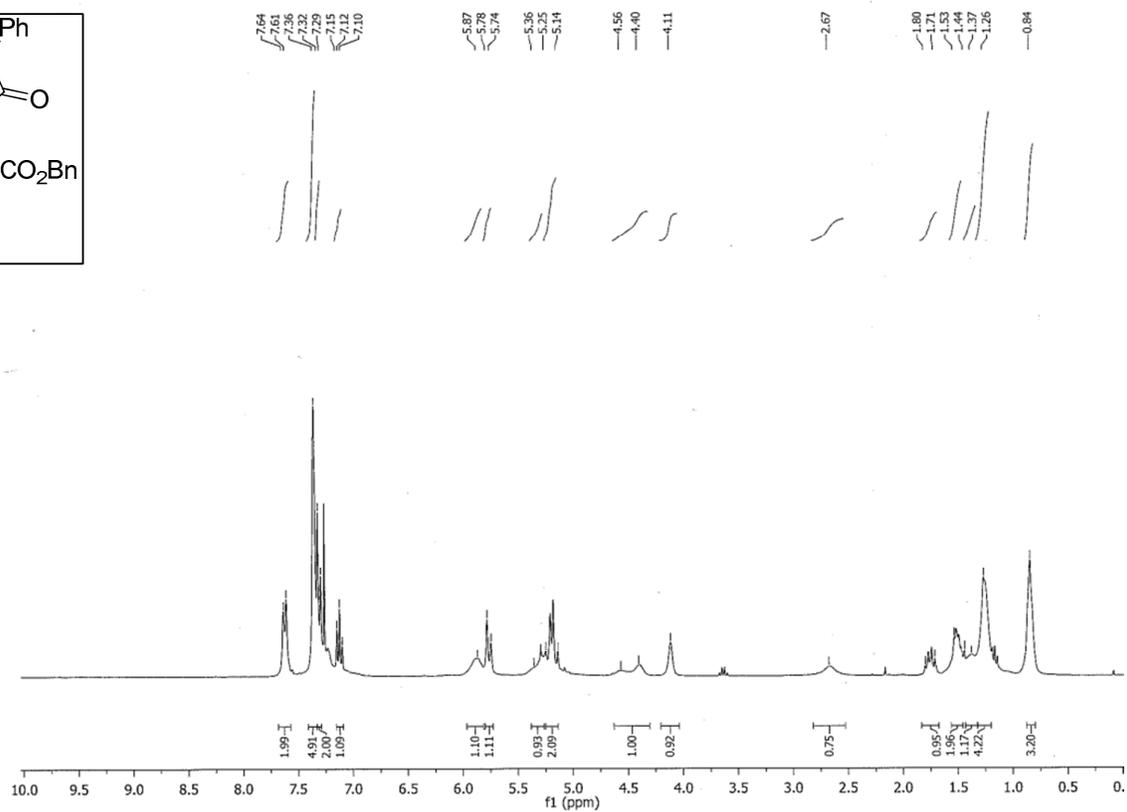
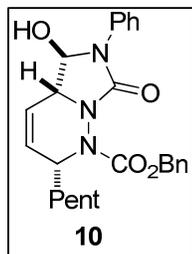


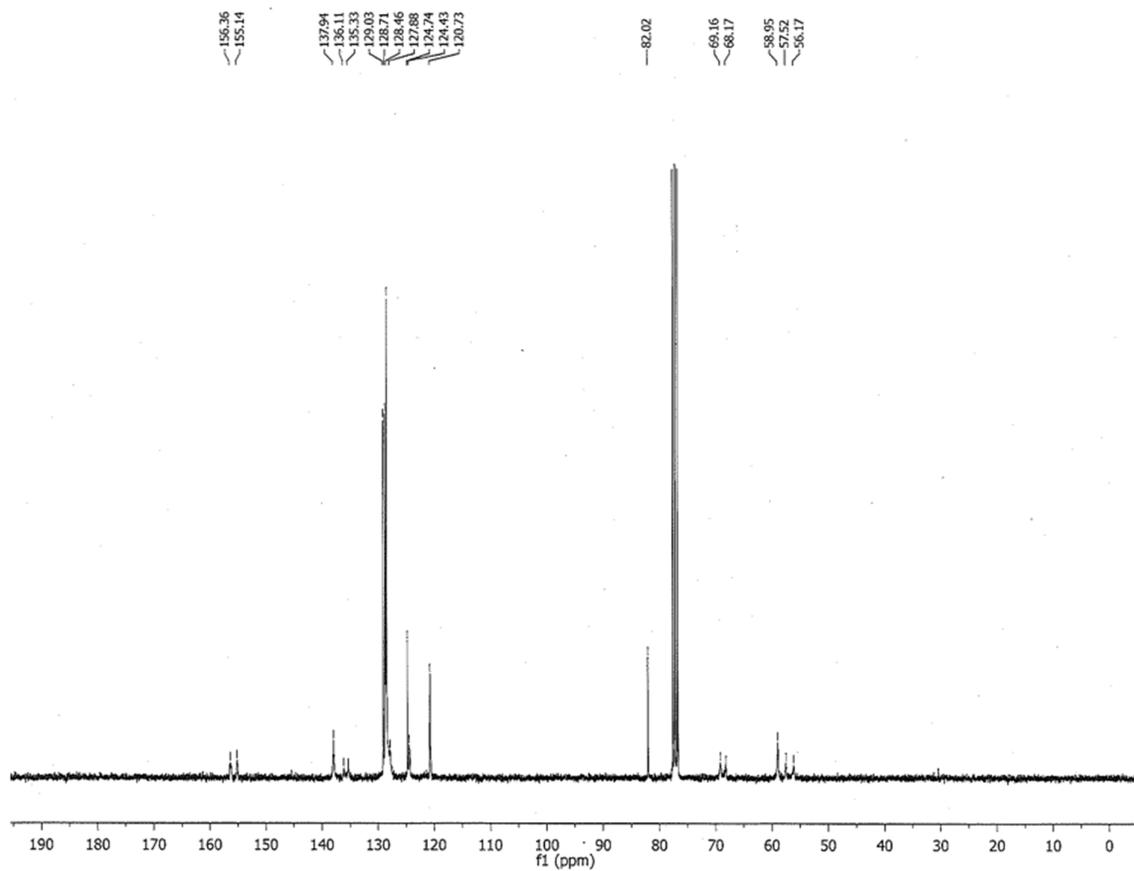
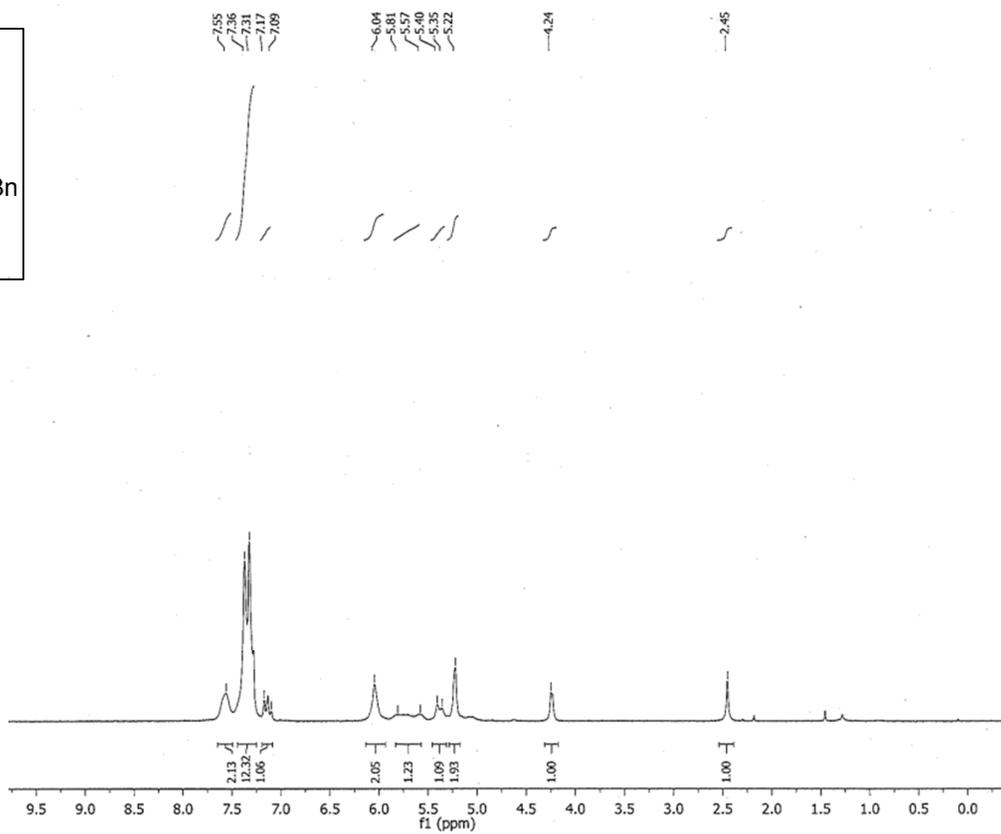
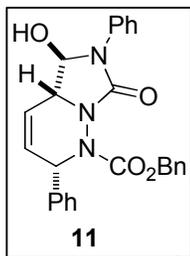


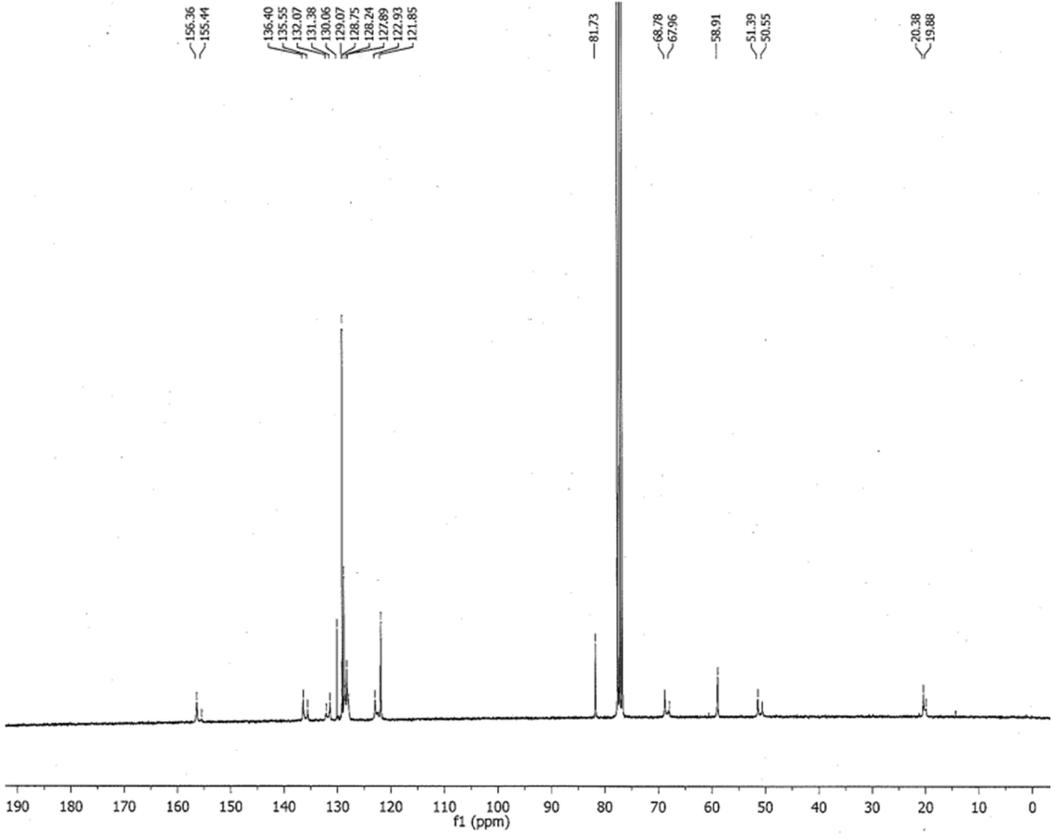
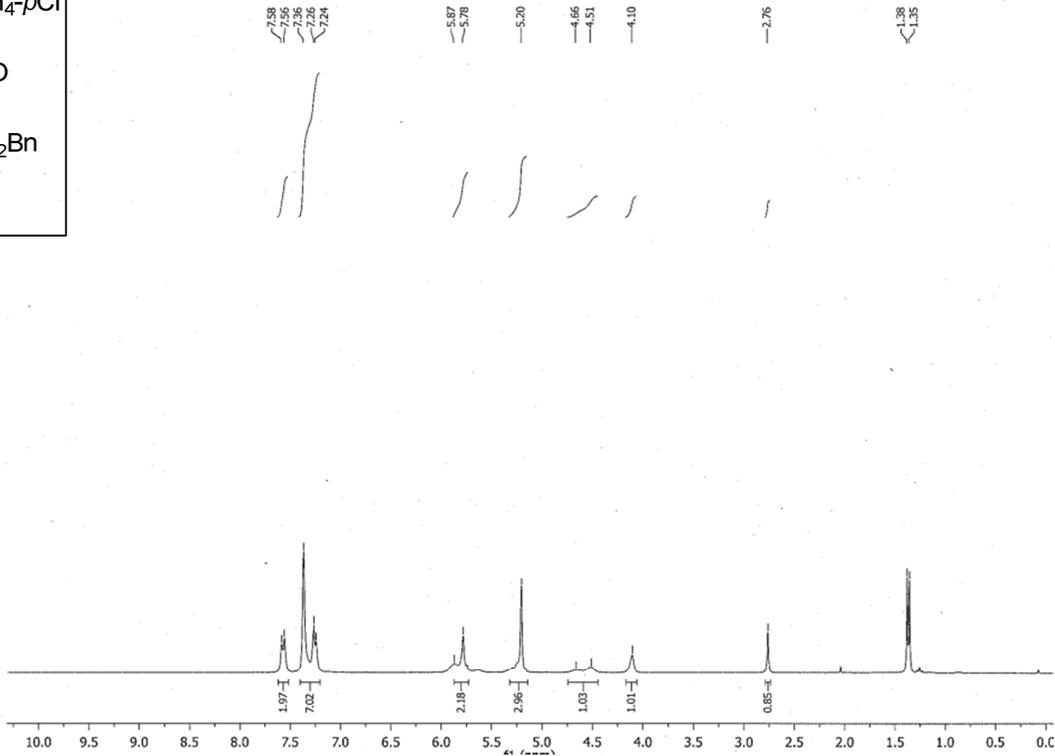
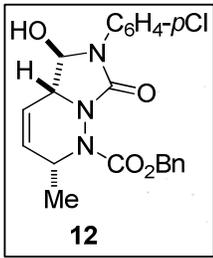


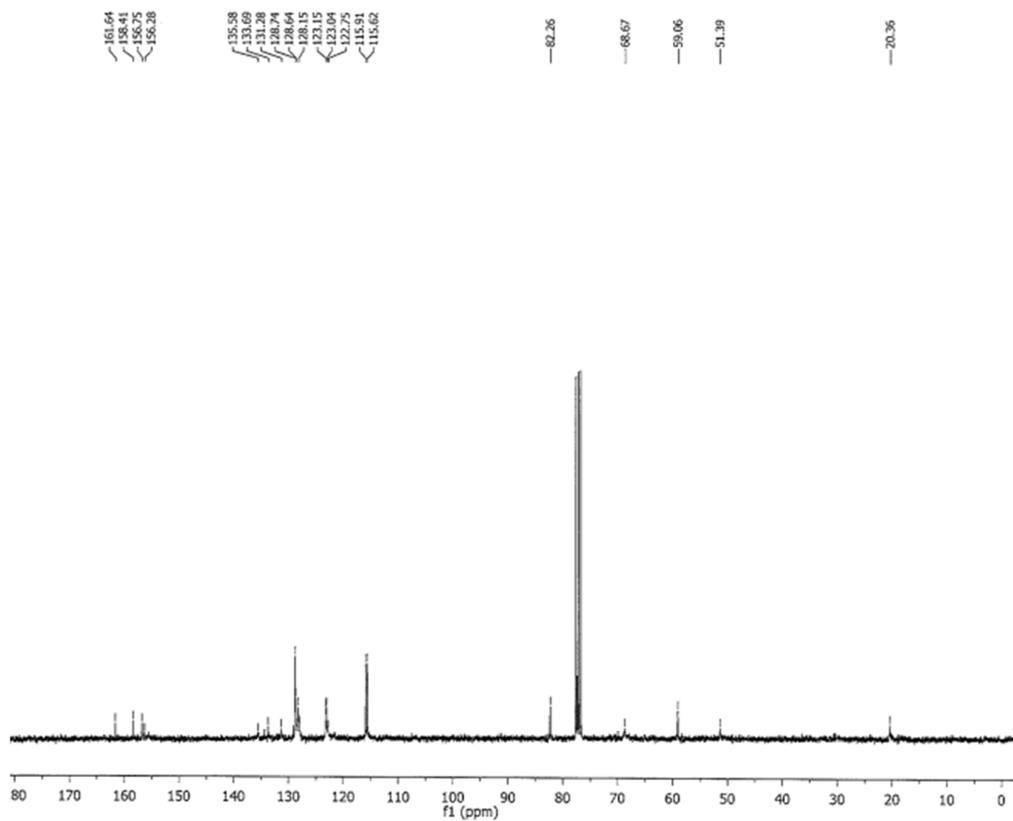
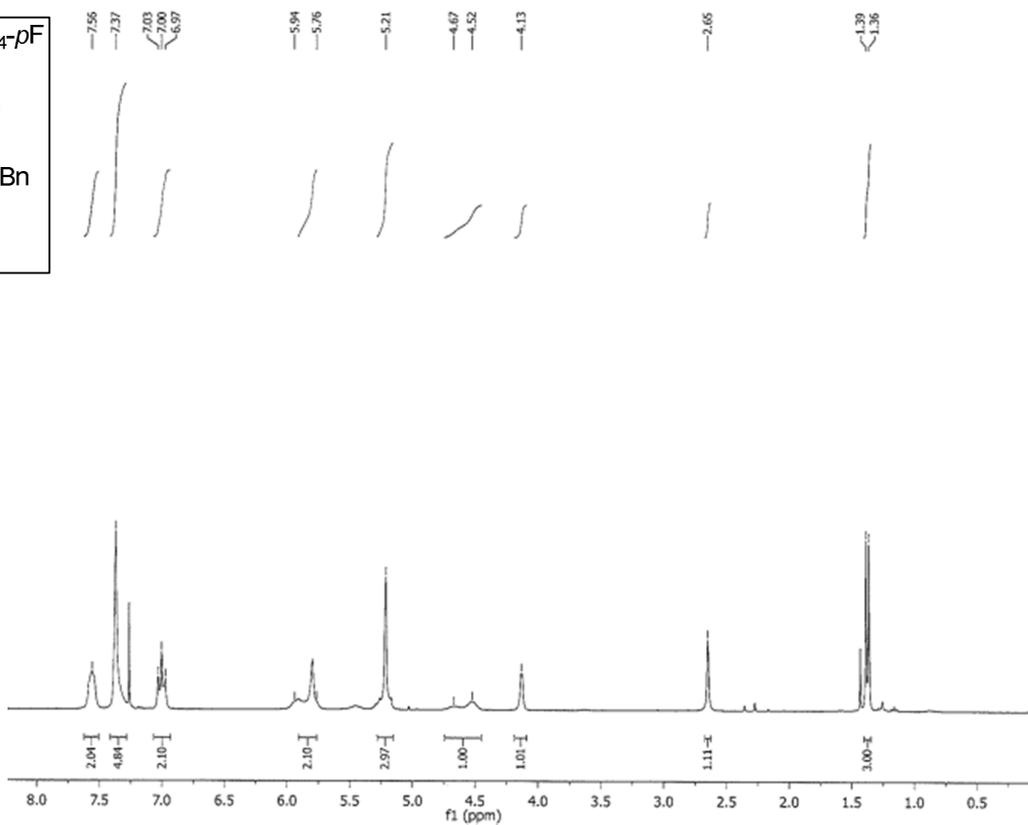
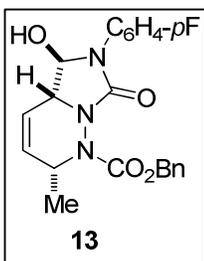


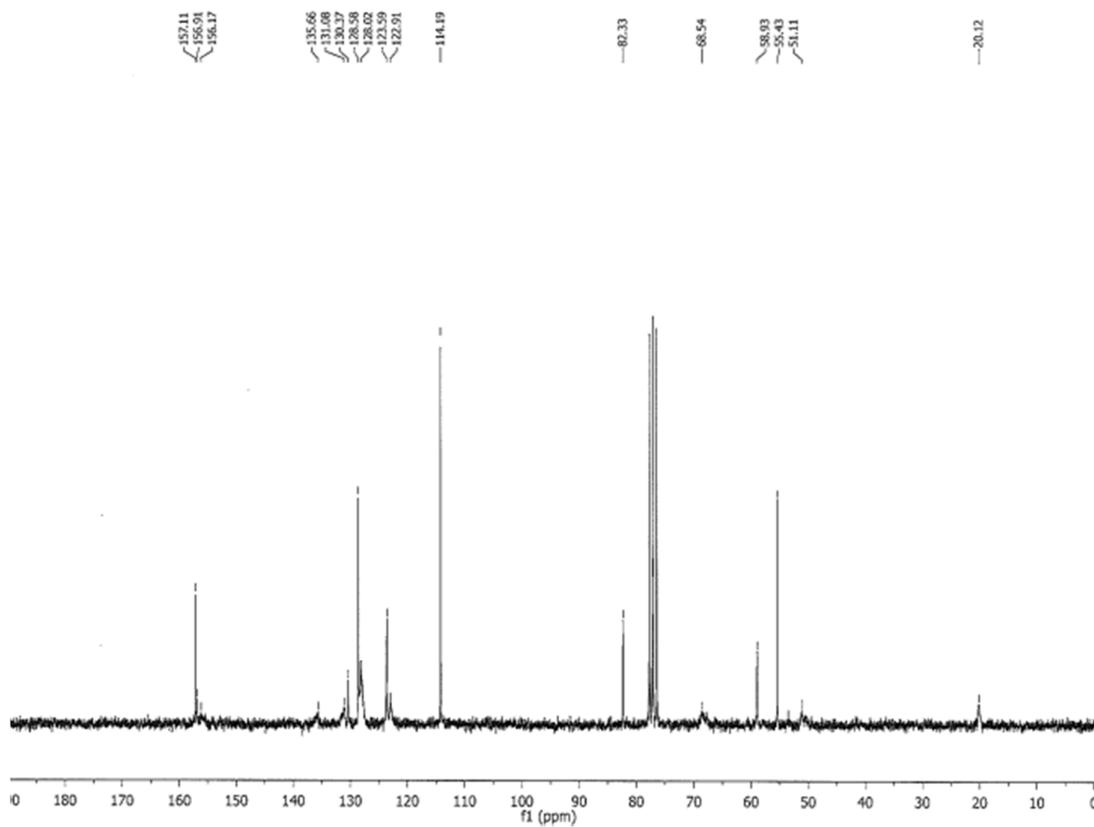
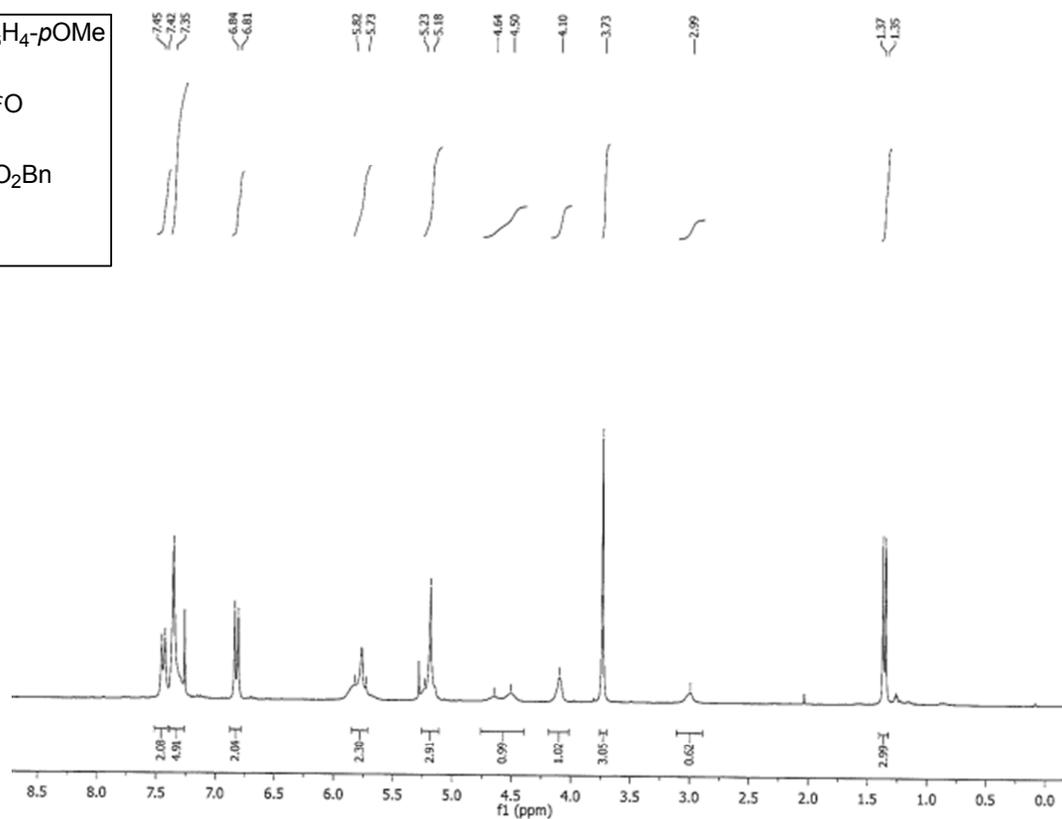
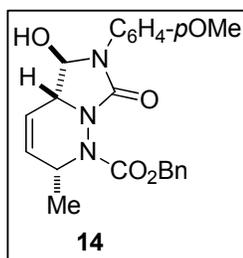


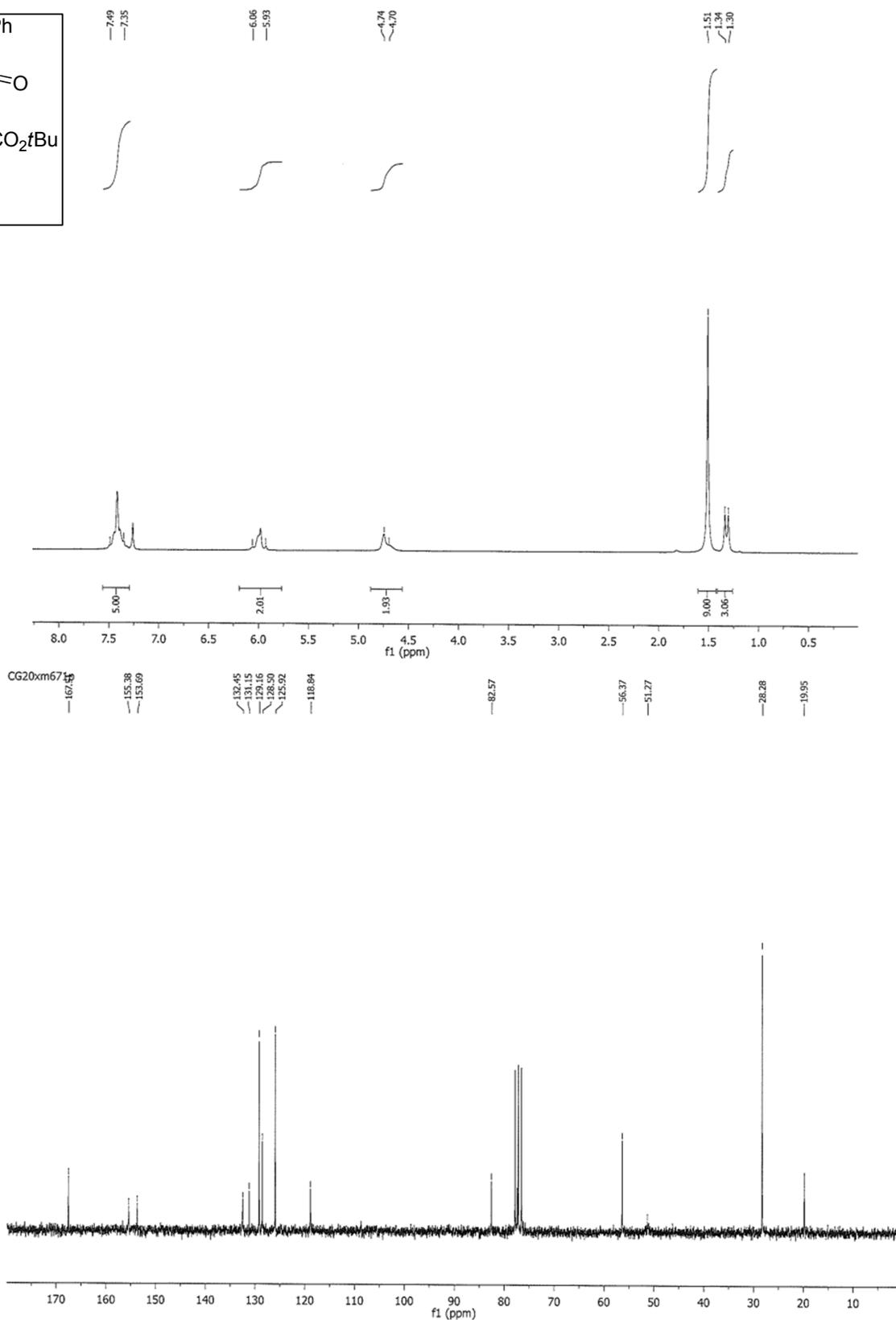
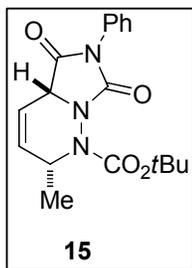


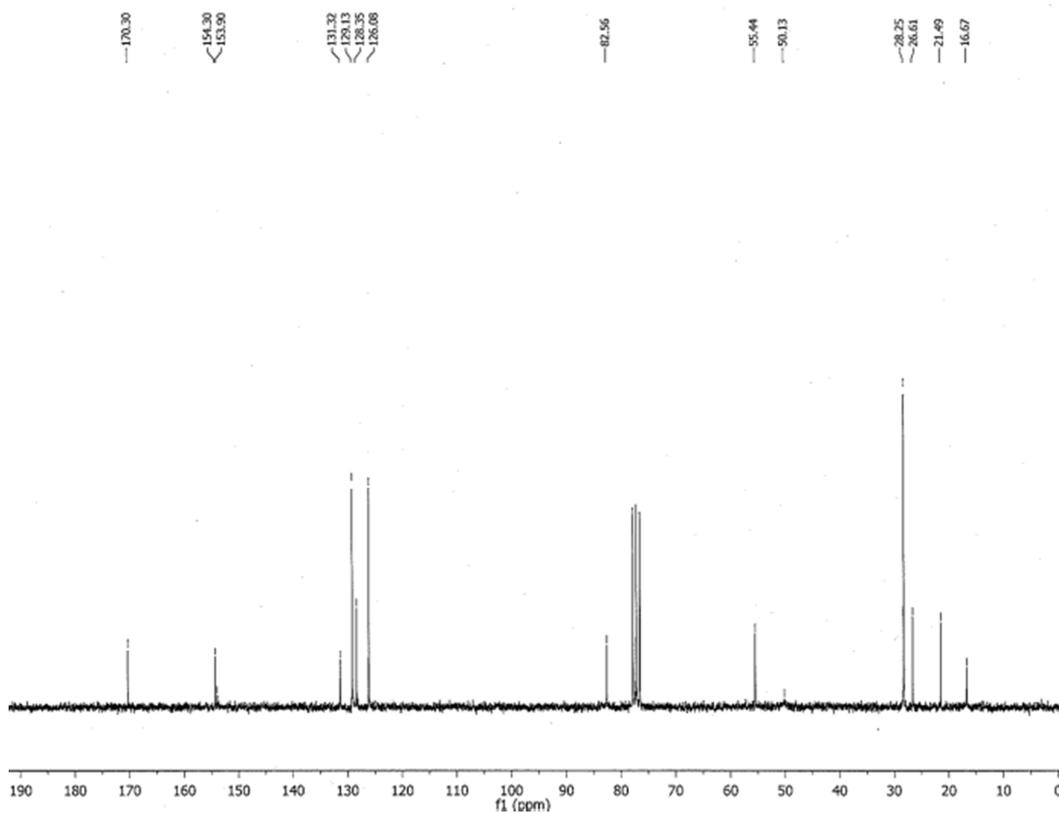
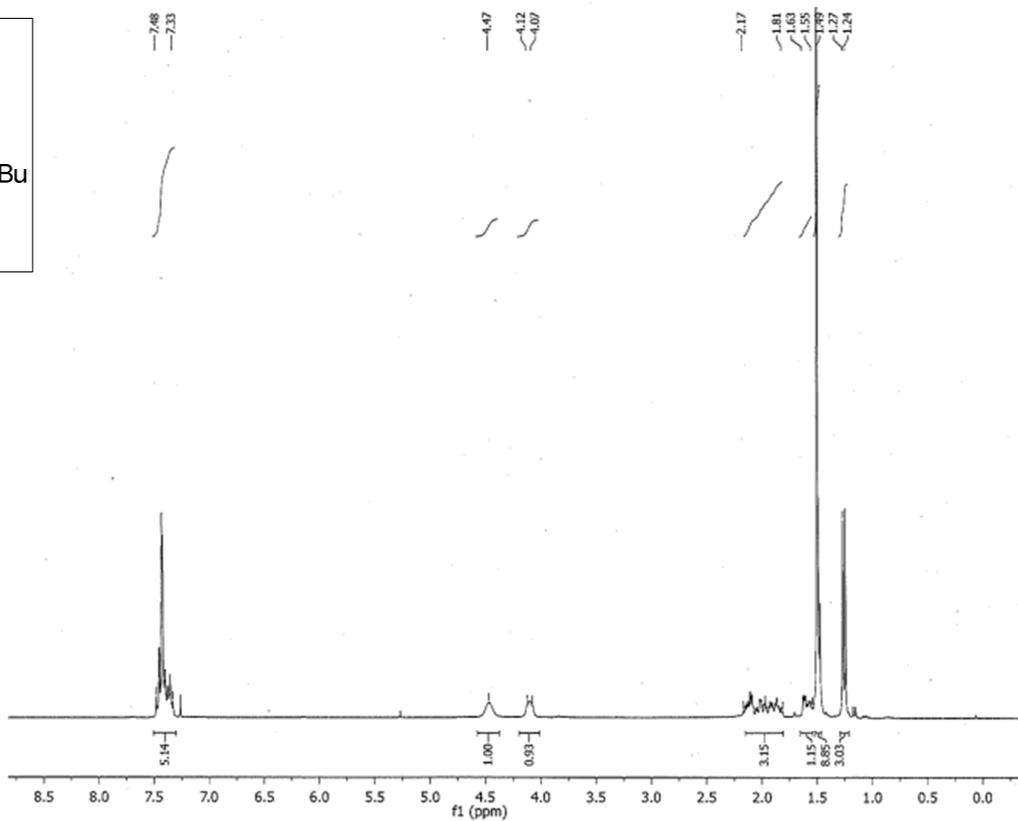
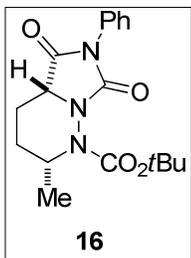


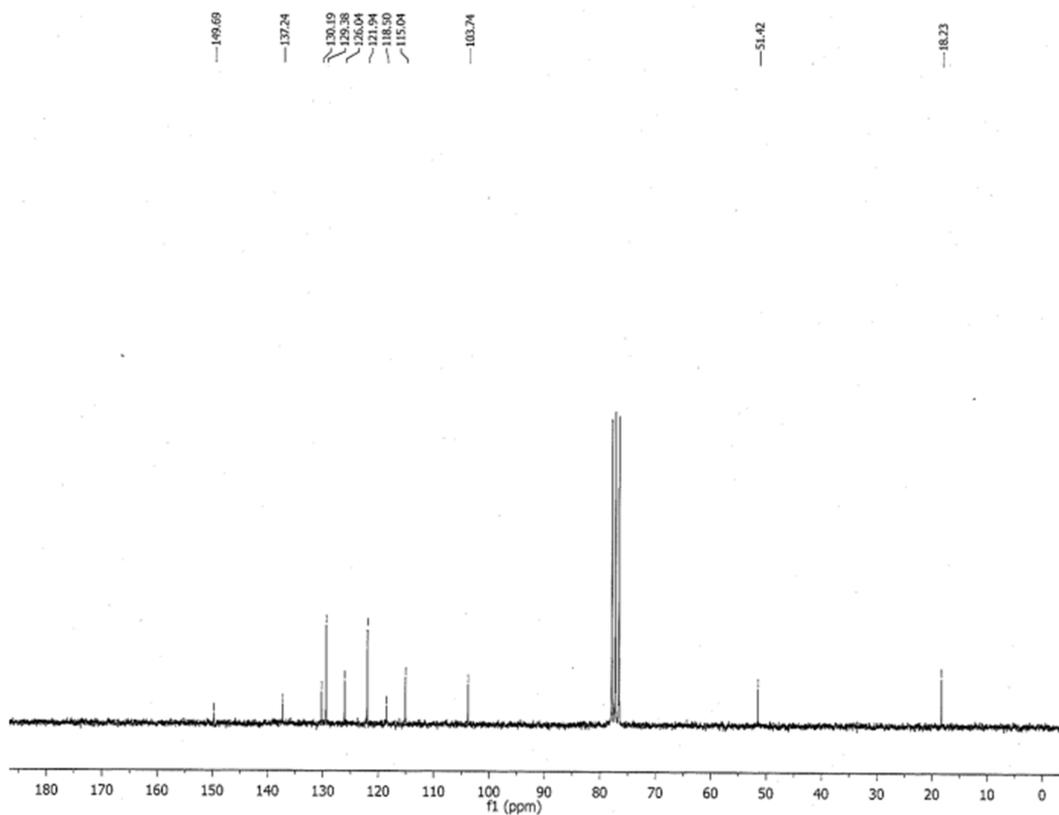
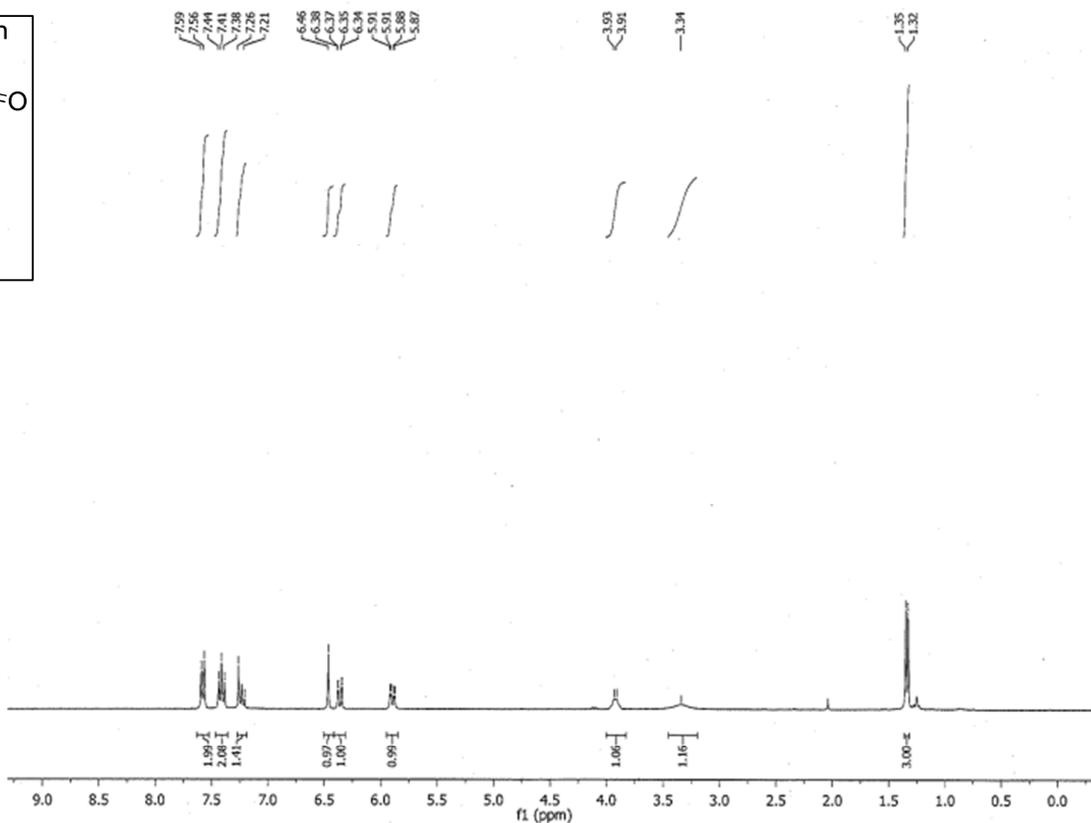
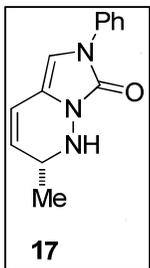


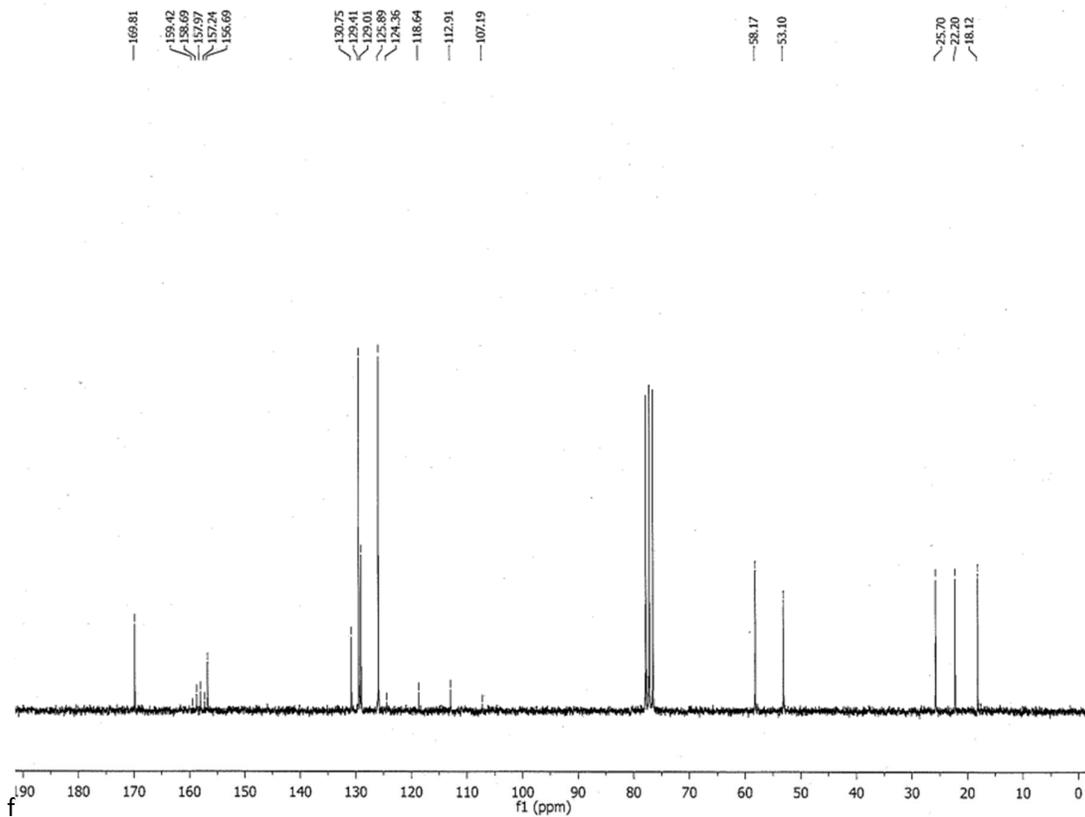
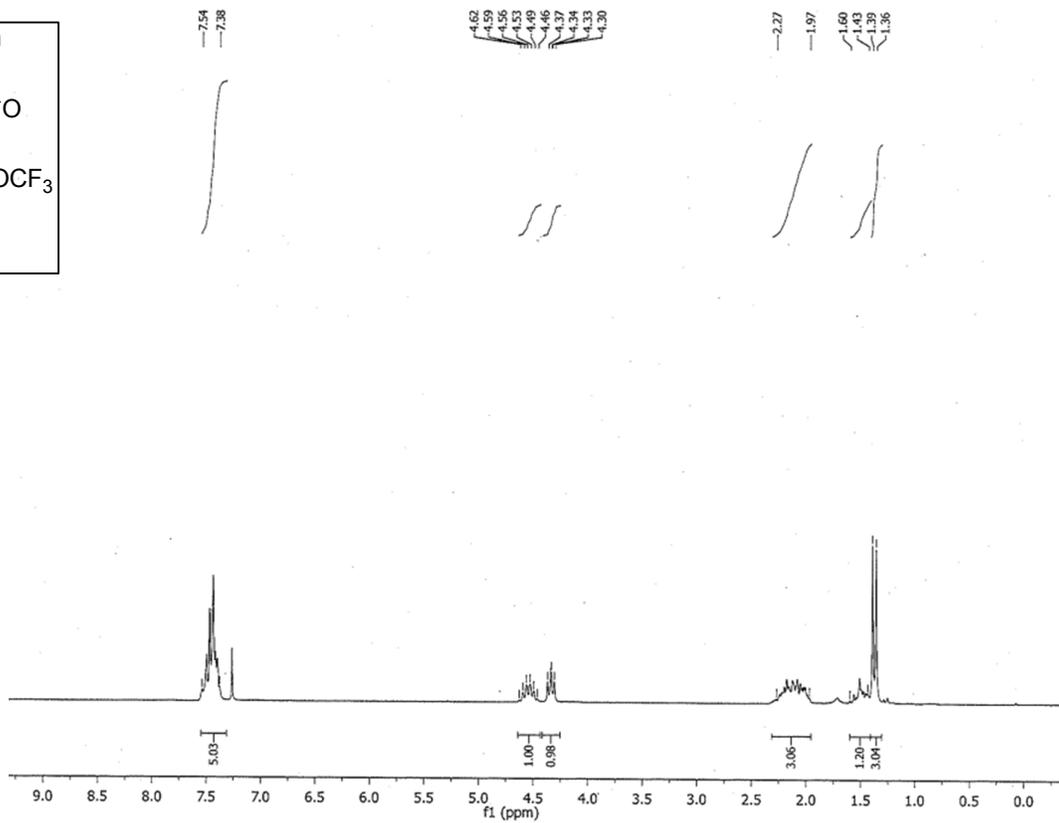
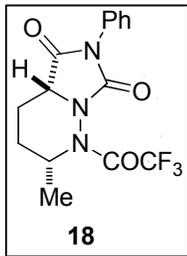


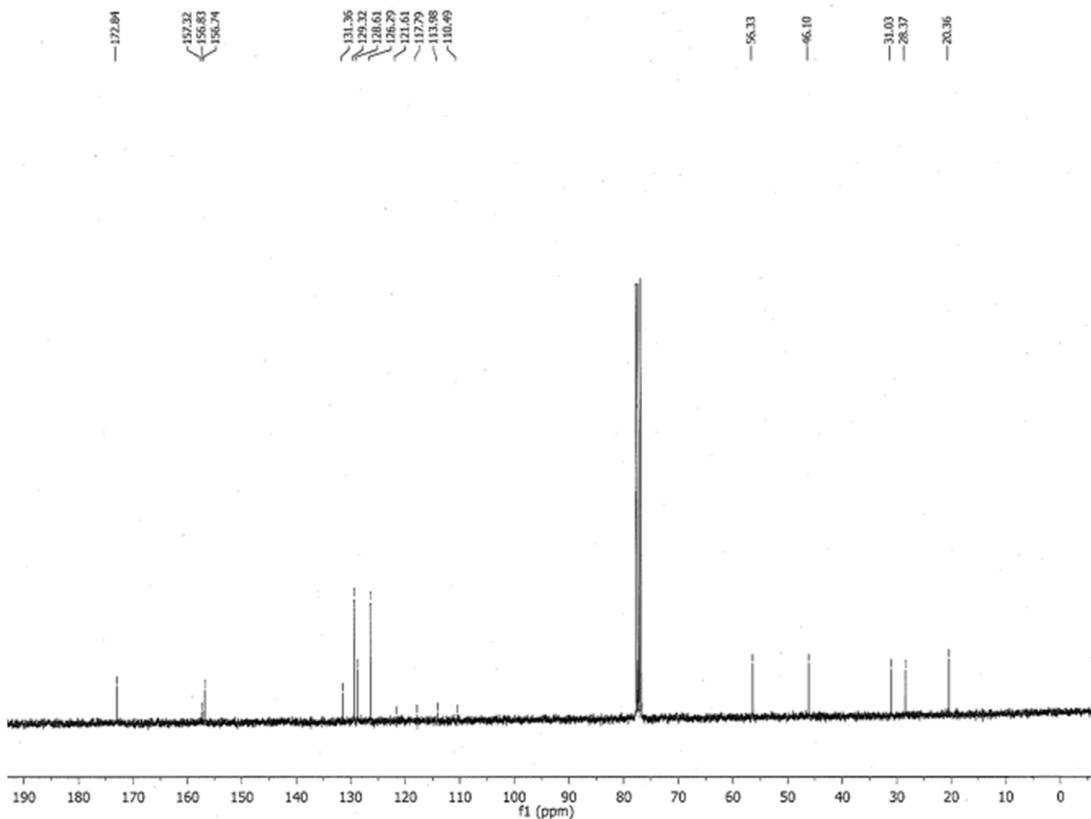
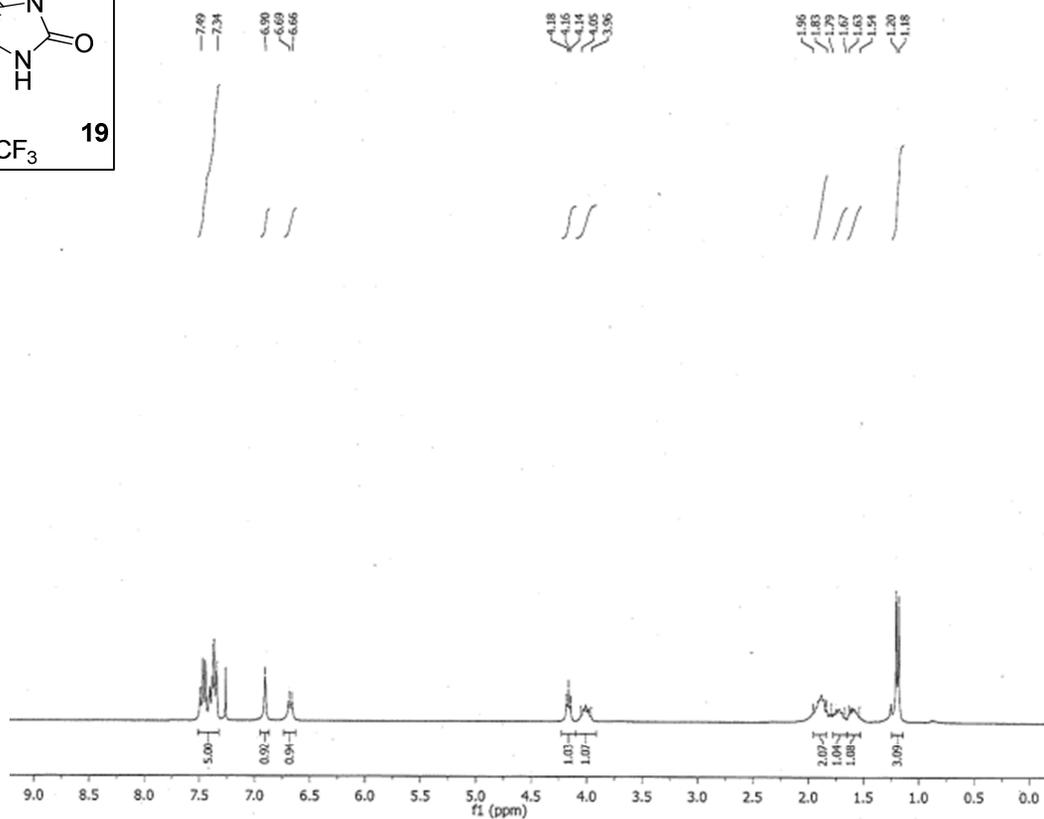
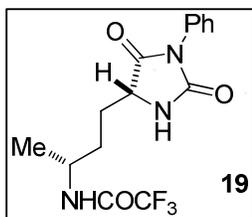


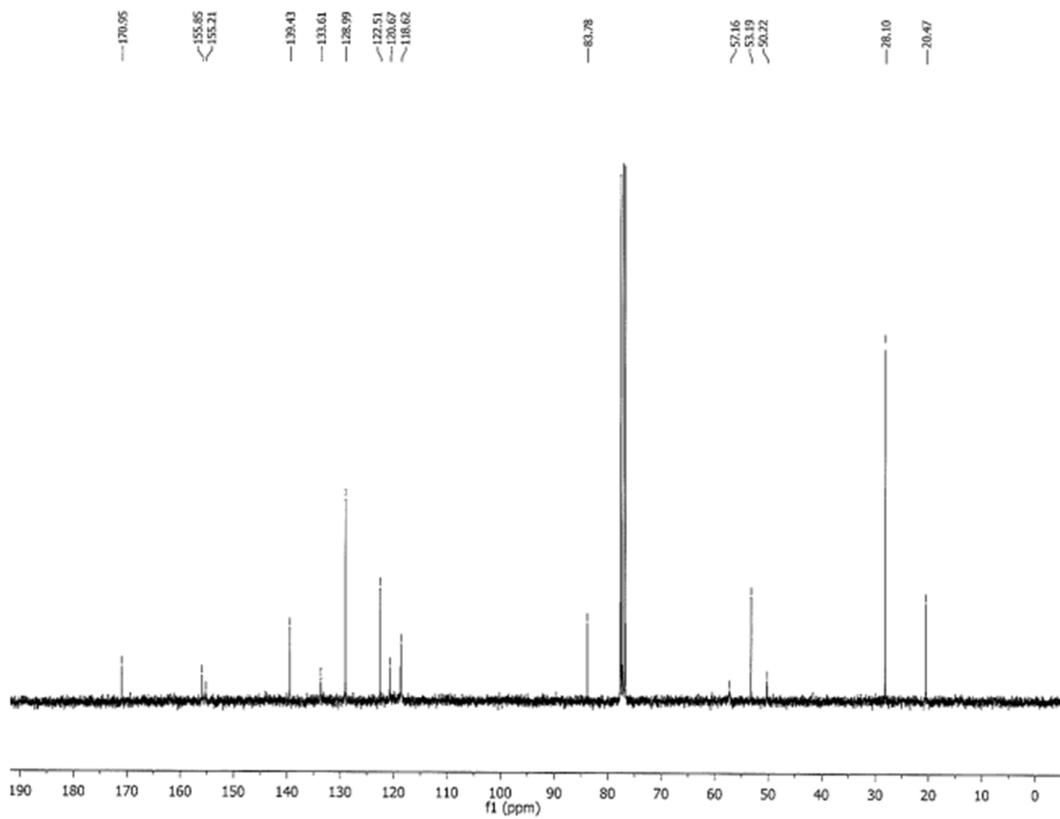
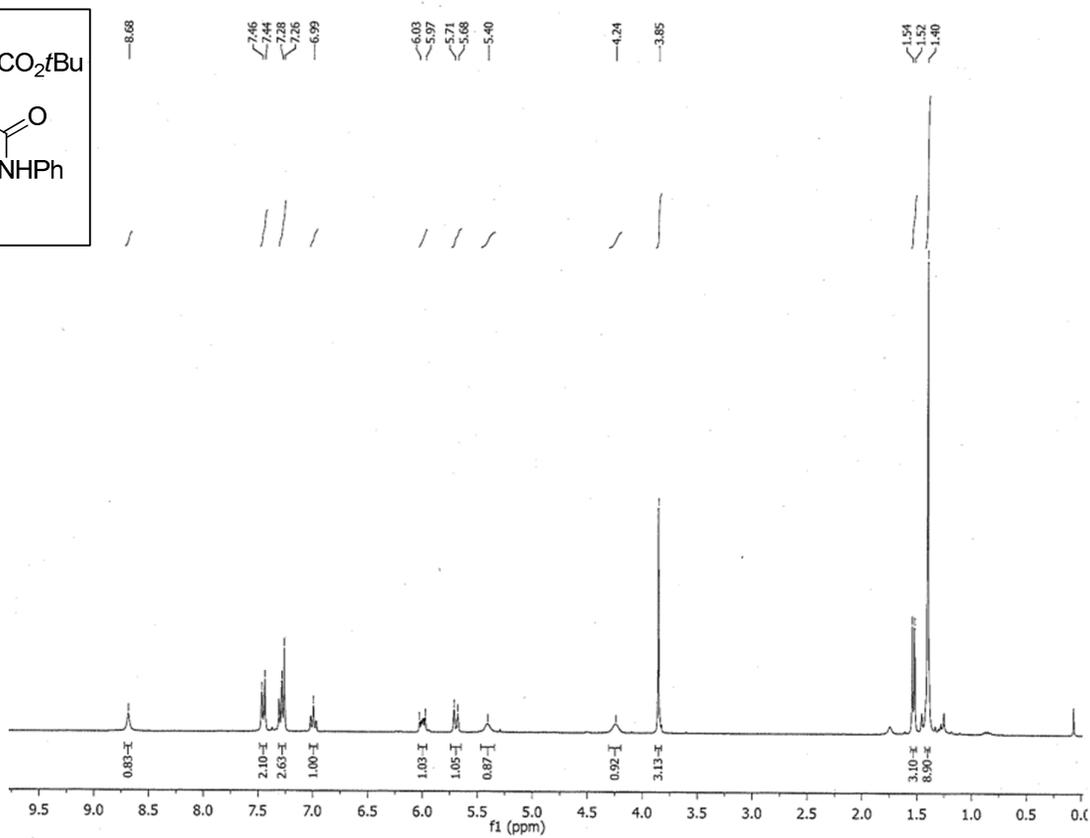
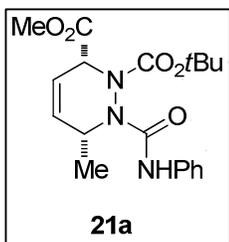


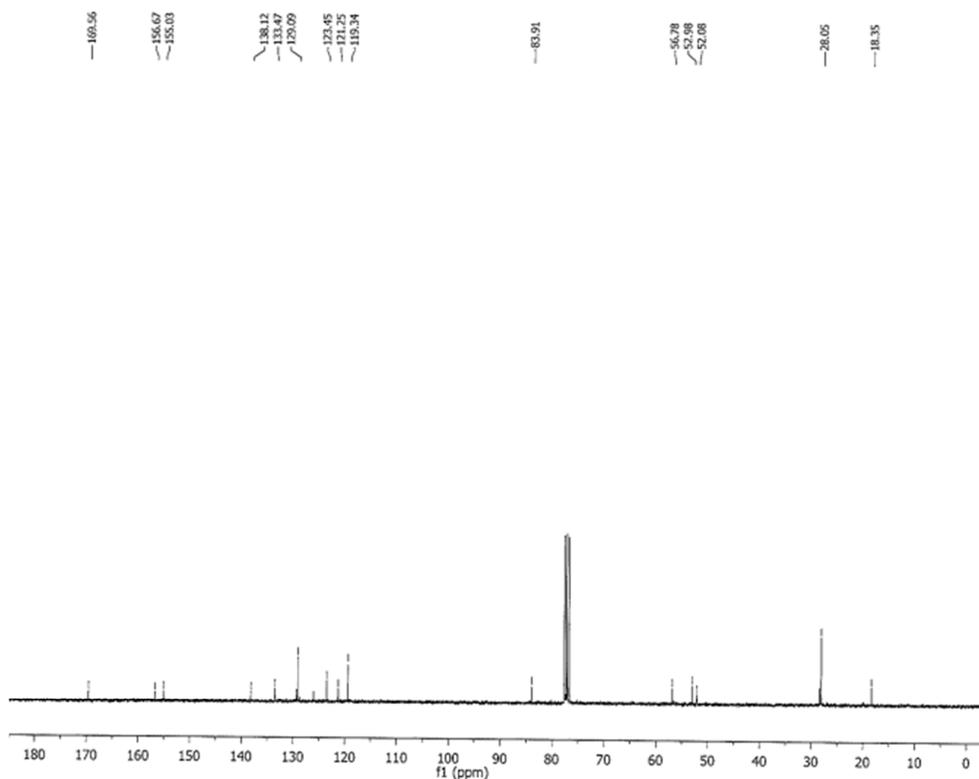
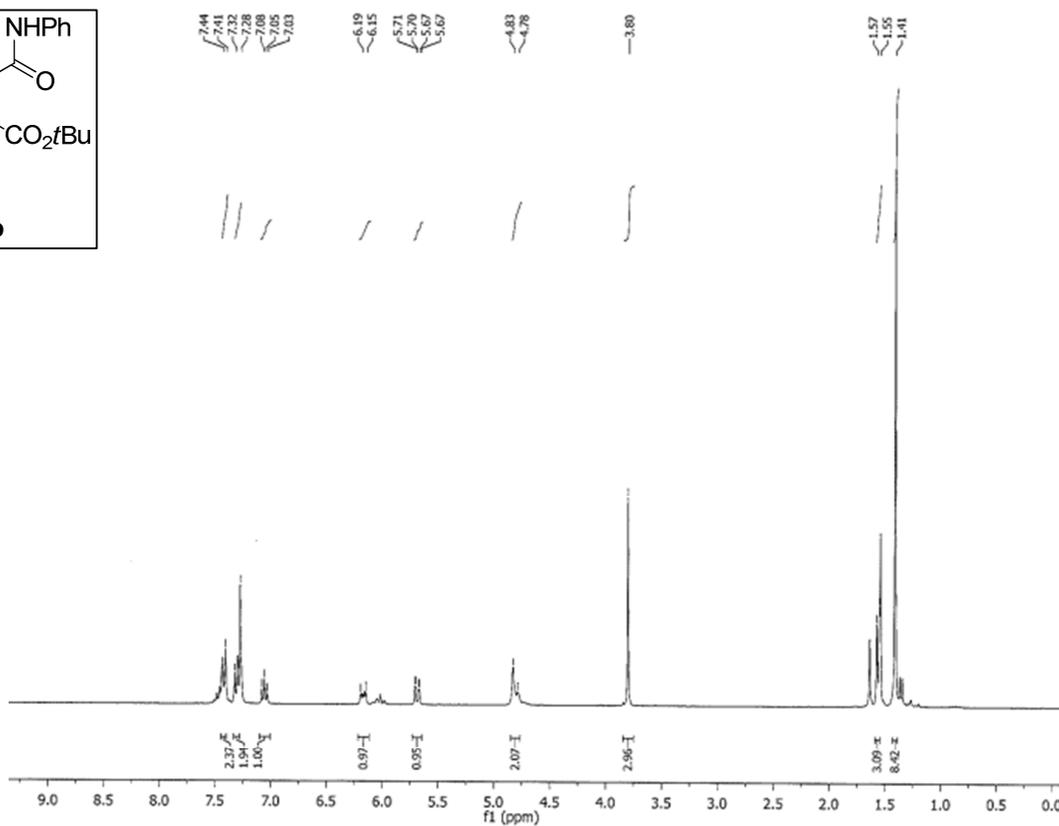
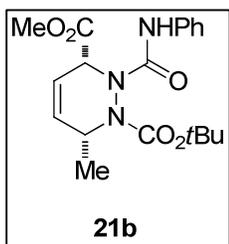


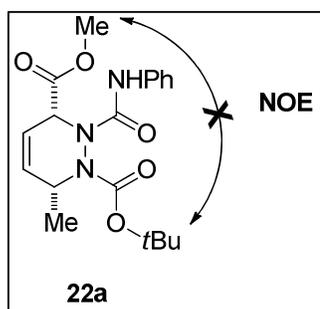
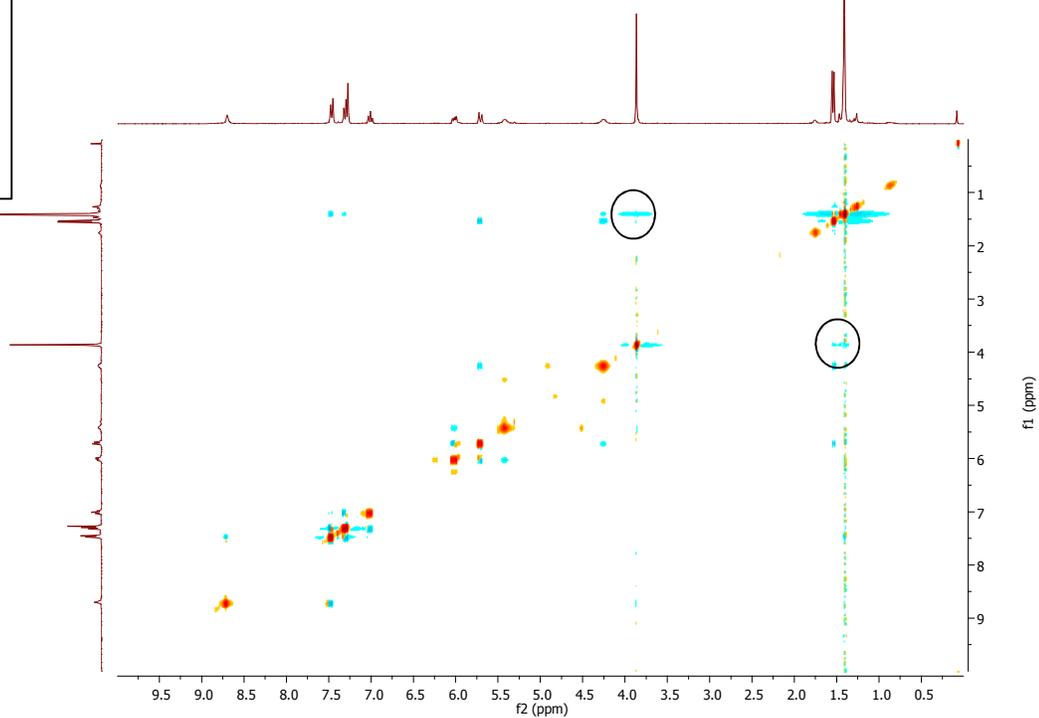
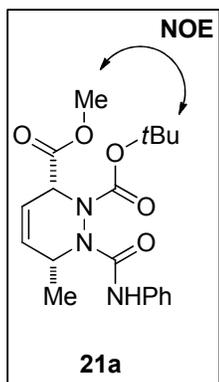












See a zoom below

