

## Supplementary Material

### Synthesis of bicyclic alcohols by palladium-catalyzed Et<sub>2</sub>Zn-mediated intramolecular carbonylpropargylation

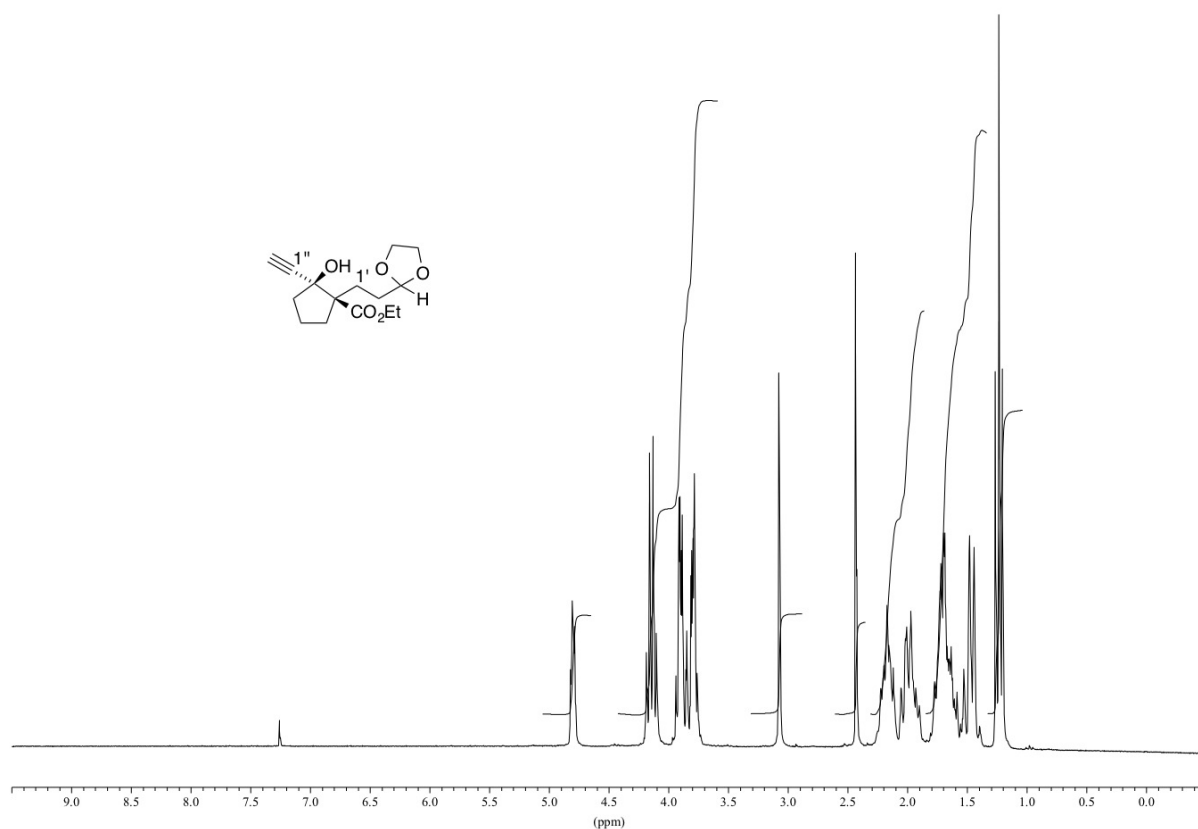
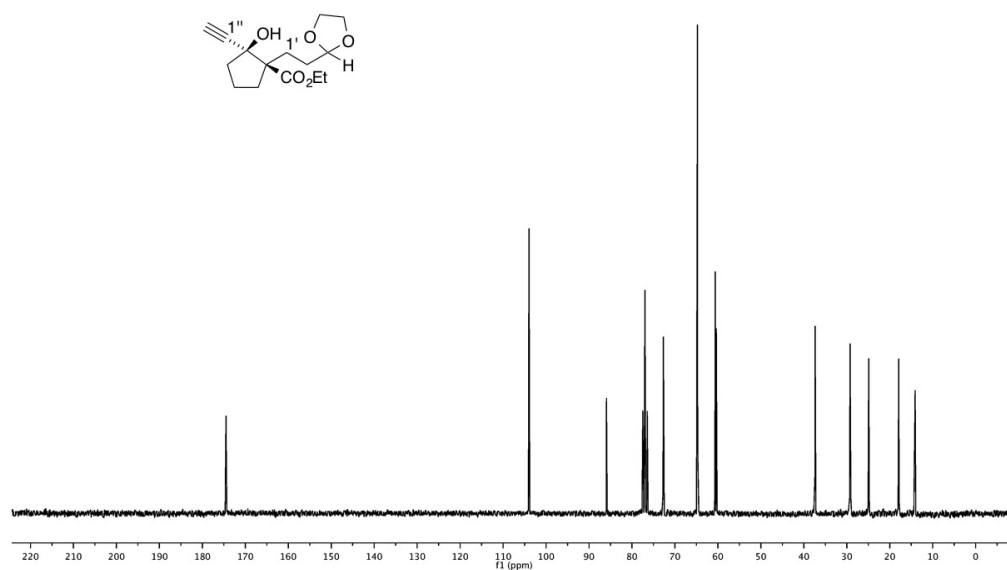
Mónica Arrate and José M. Aurrecochea\*

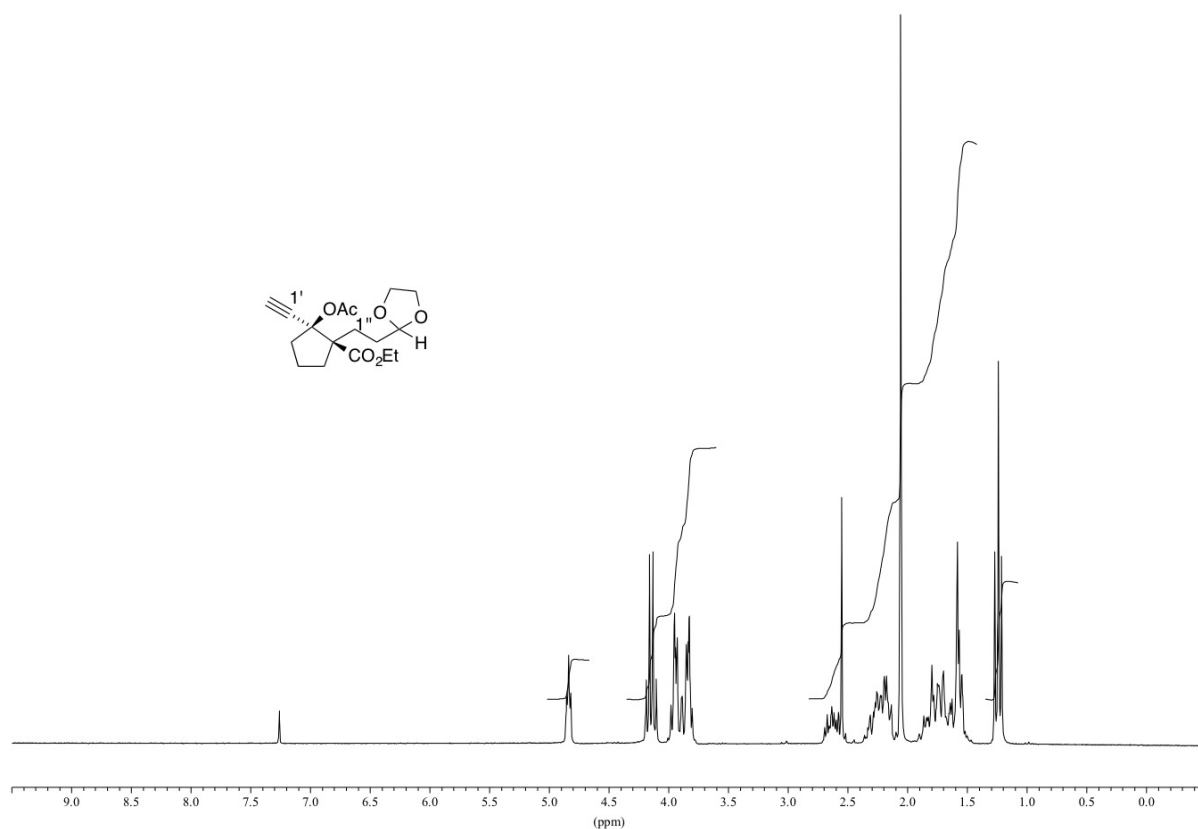
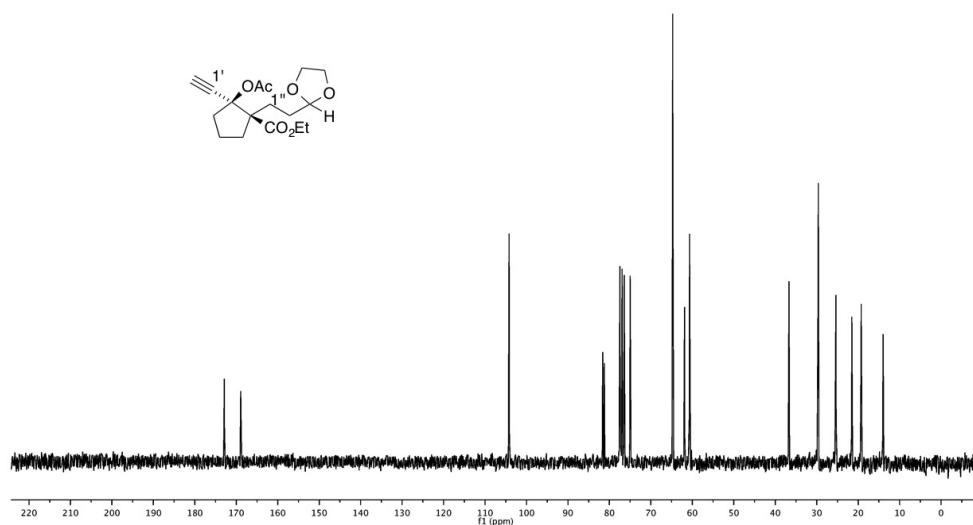
*Departamento de Química Orgánica II, Facultad de Ciencia y Tecnología, Universidad del País Vasco UPV/EHU, Apartado 644, 48080 Bilbao, Spain*

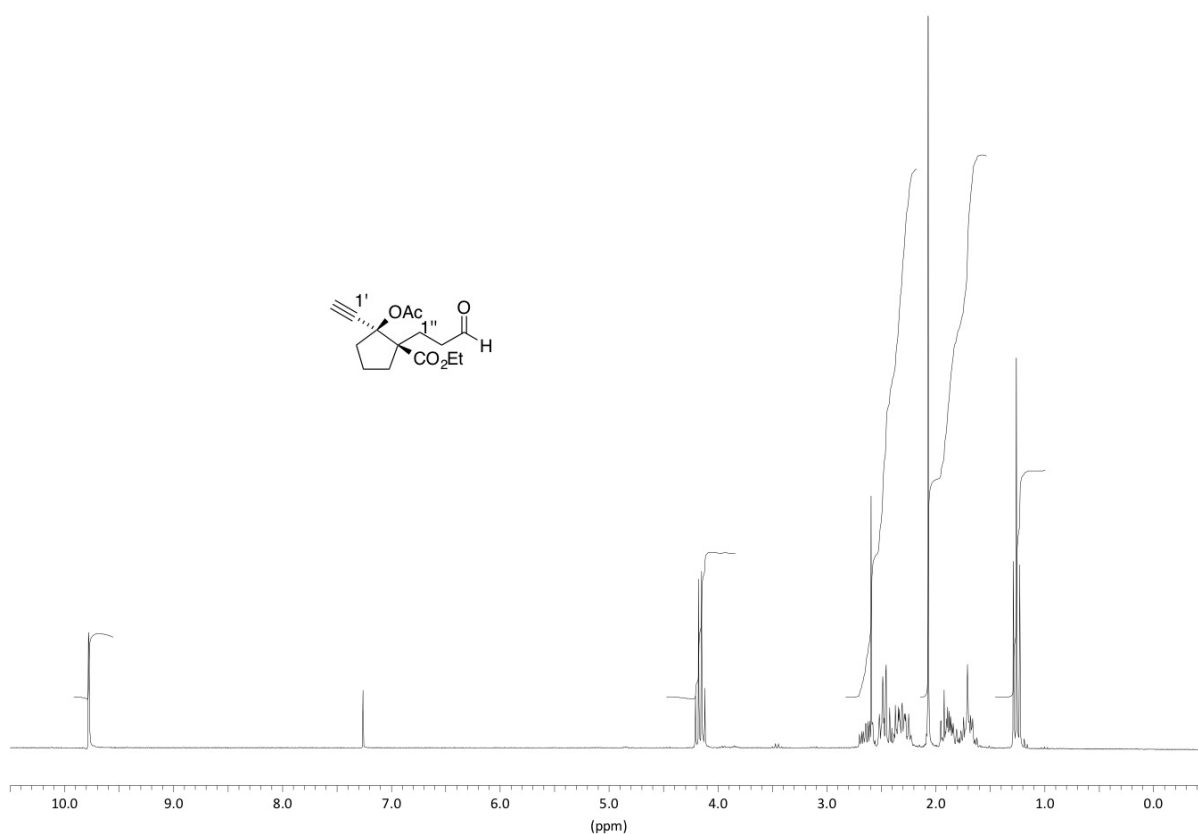
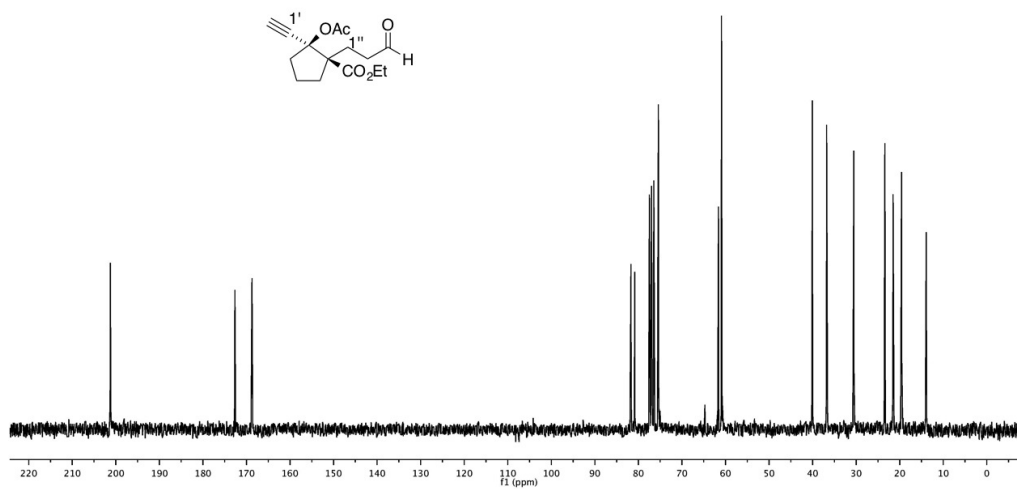
Email: [jm.aurrecochea@ehu.eus](mailto:jm.aurrecochea@ehu.eus)

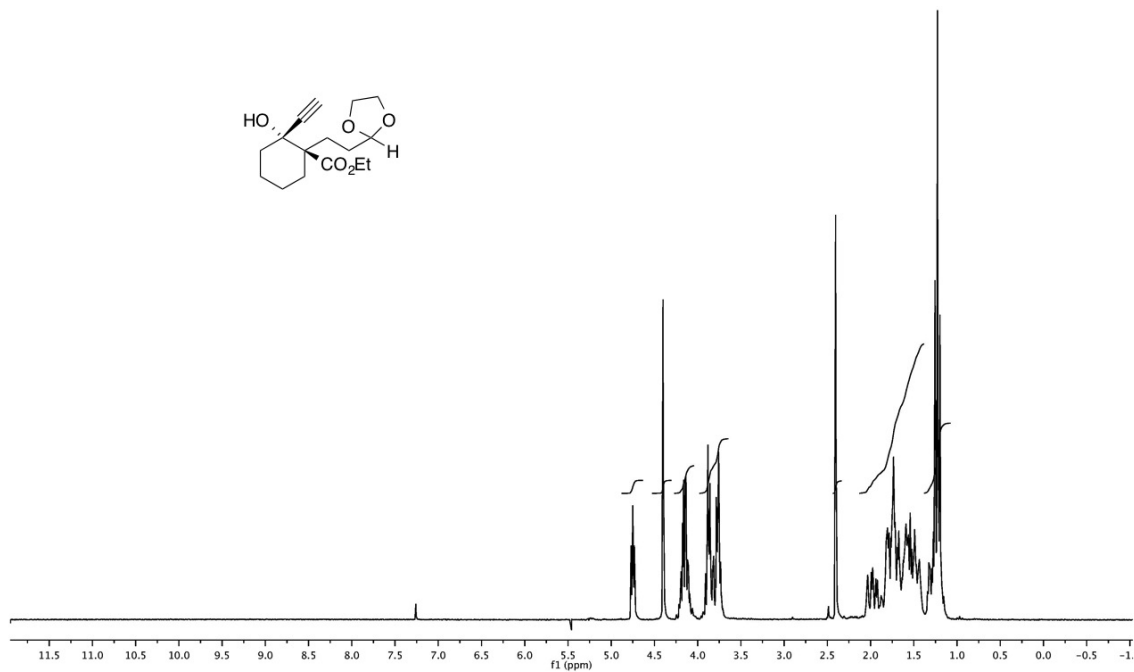
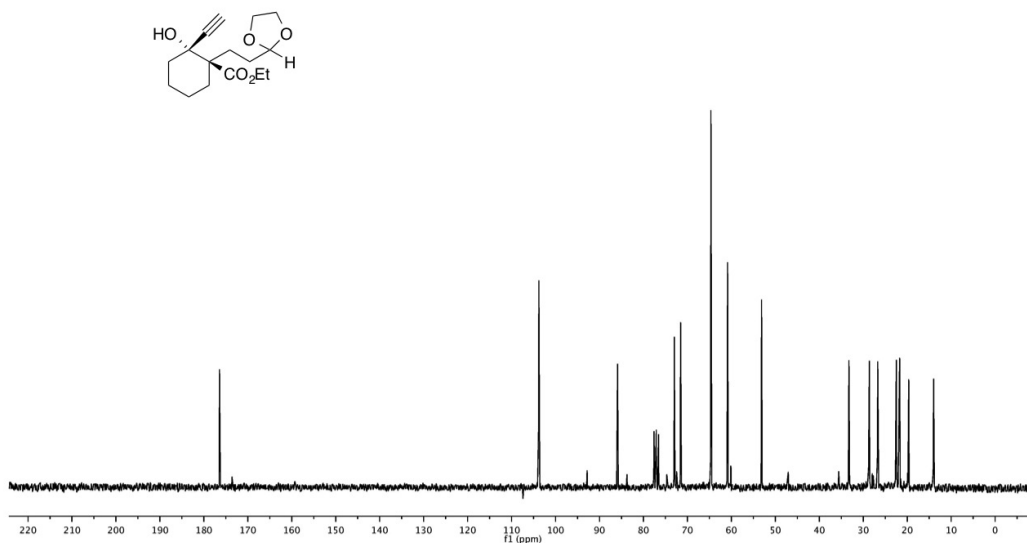
**Copies of NMR Spectra**

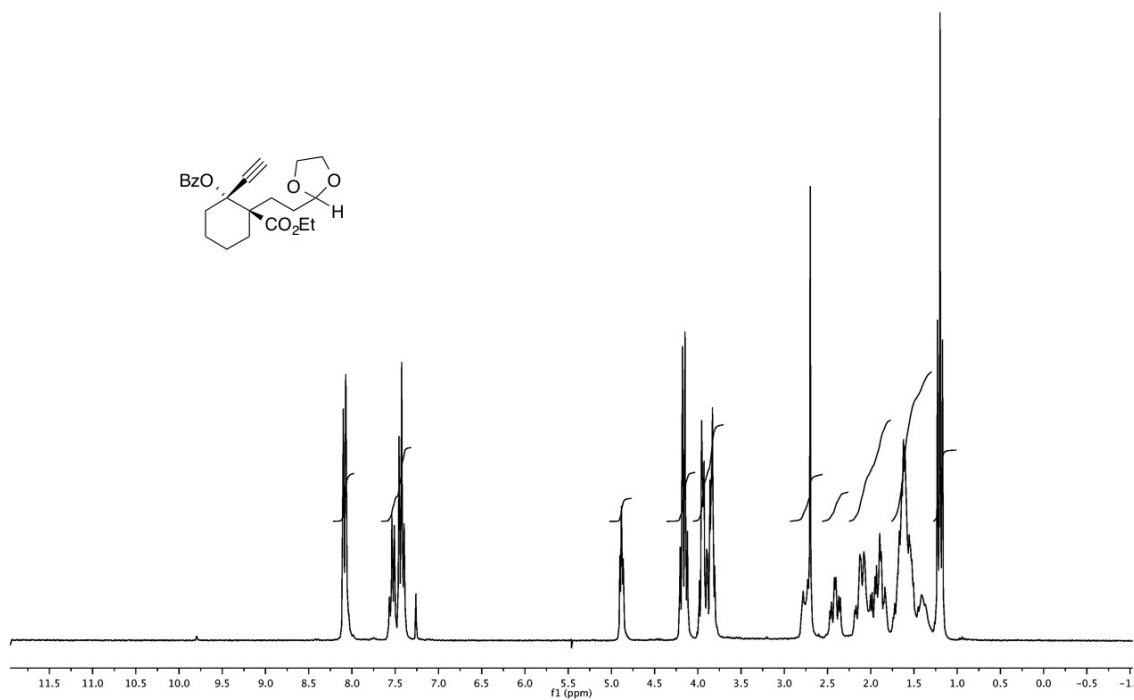
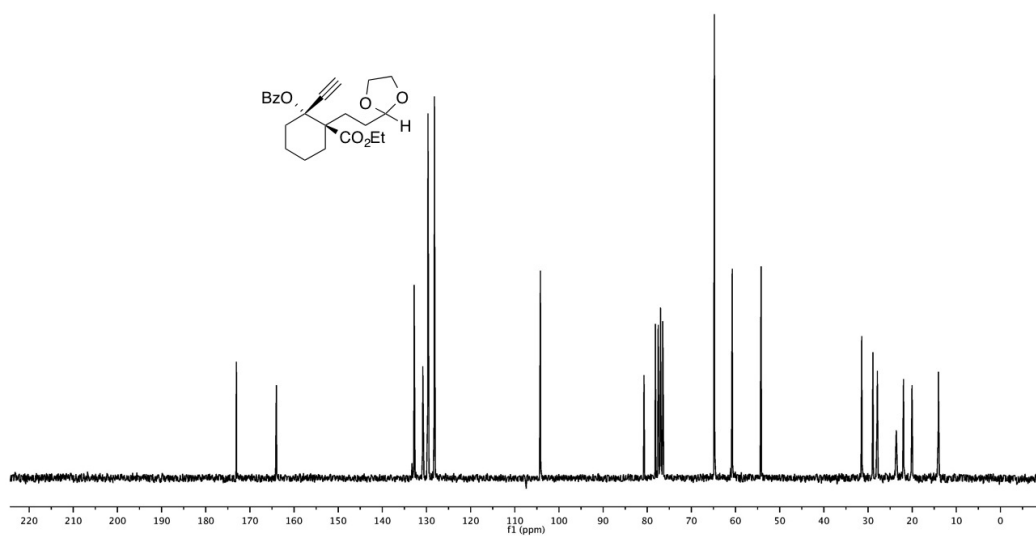
**S2-S13**

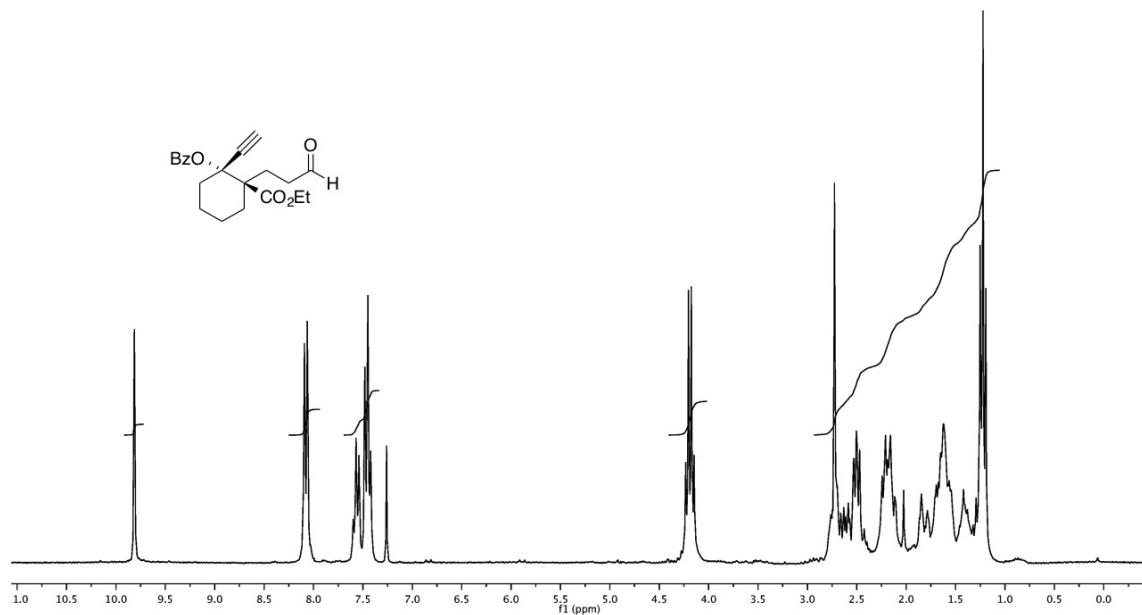
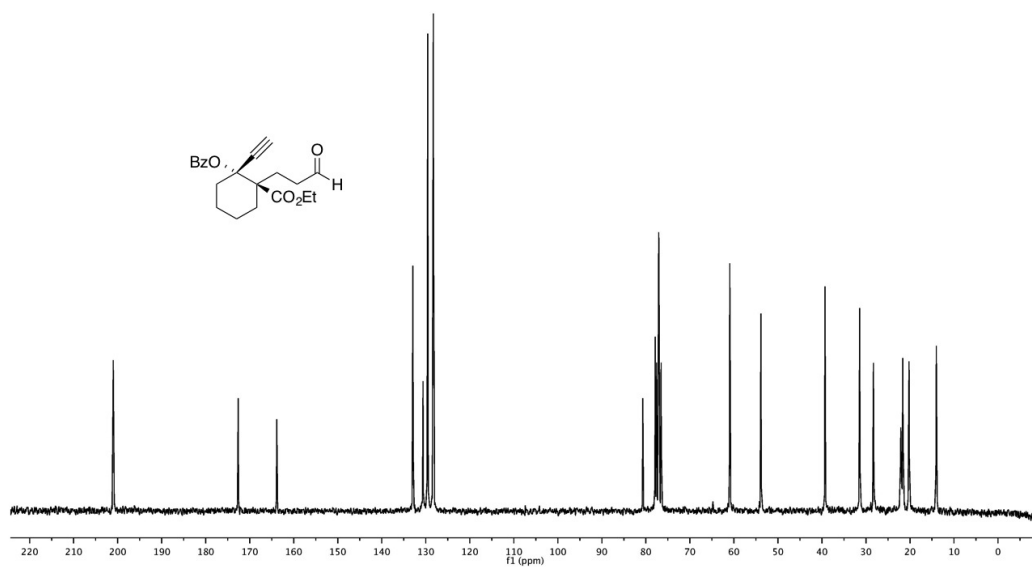
**$^1\text{H}$  NMR (250 MHz,  $\text{CDCl}_3$ ) Spectrum of 4a** **$^{13}\text{C}$  NMR (62.9 MHz,  $\text{CDCl}_3$ ) Spectrum of 4a**

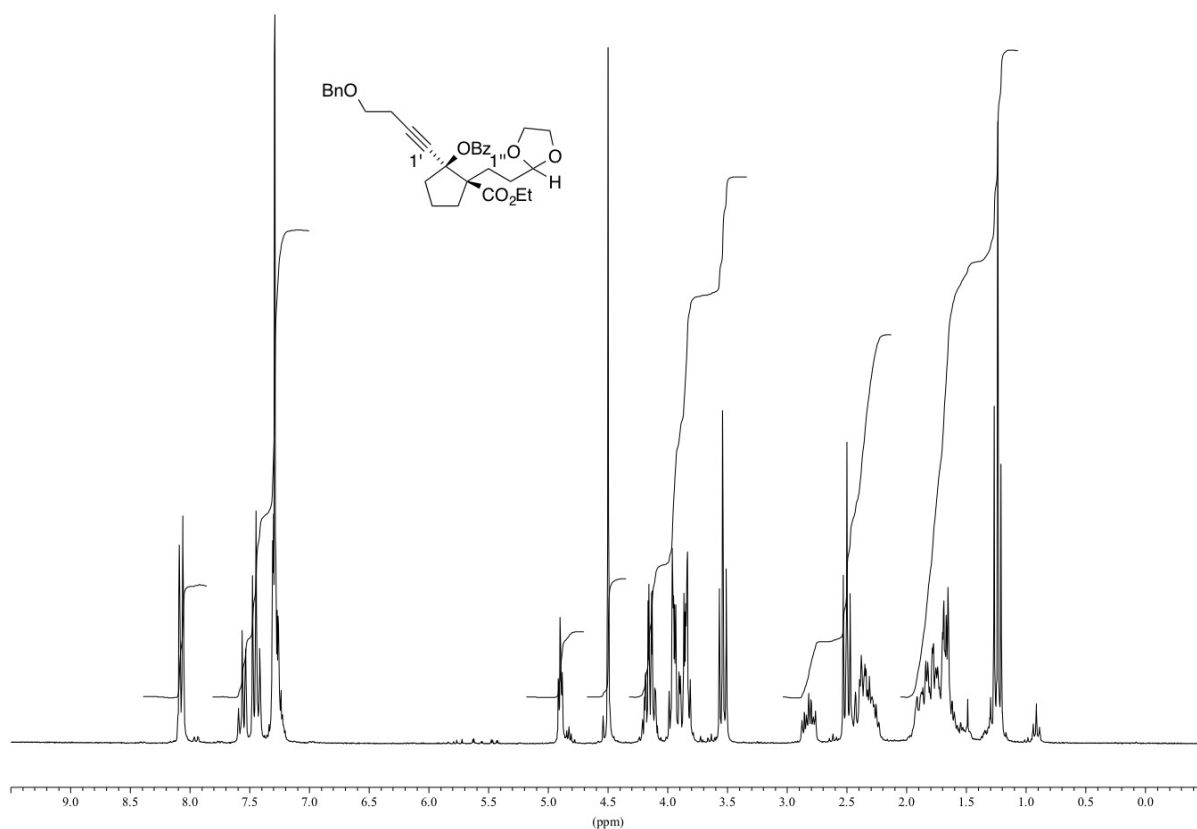
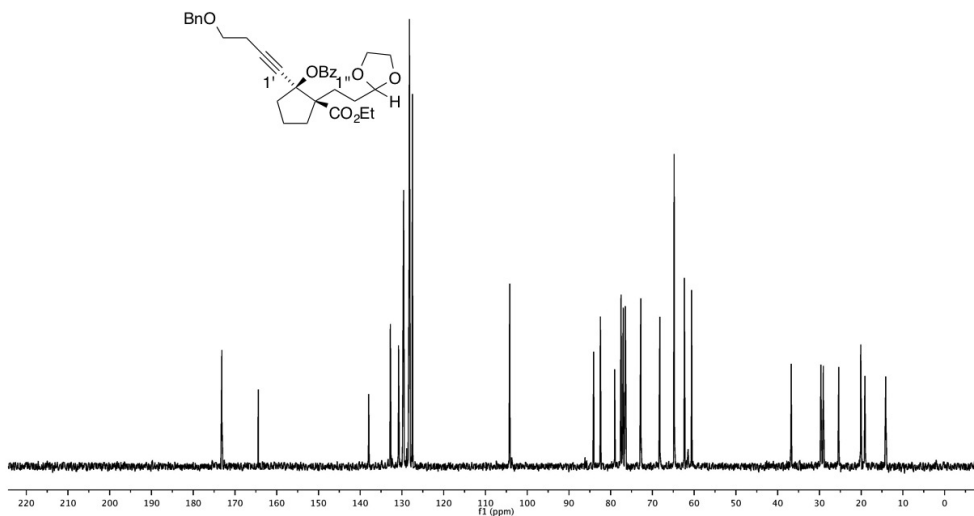
**$^1\text{H}$  NMR (250 MHz,  $\text{CDCl}_3$ ) Spectrum of 5a** **$^{13}\text{C}$  NMR (62.9 MHz,  $\text{CDCl}_3$ ) Spectrum of 5a**

**<sup>1</sup>H NMR (250 MHz, CDCl<sub>3</sub>) Spectrum of 1a****<sup>13</sup>C NMR (62.9 MHz, CDCl<sub>3</sub>) Spectrum of 1a**

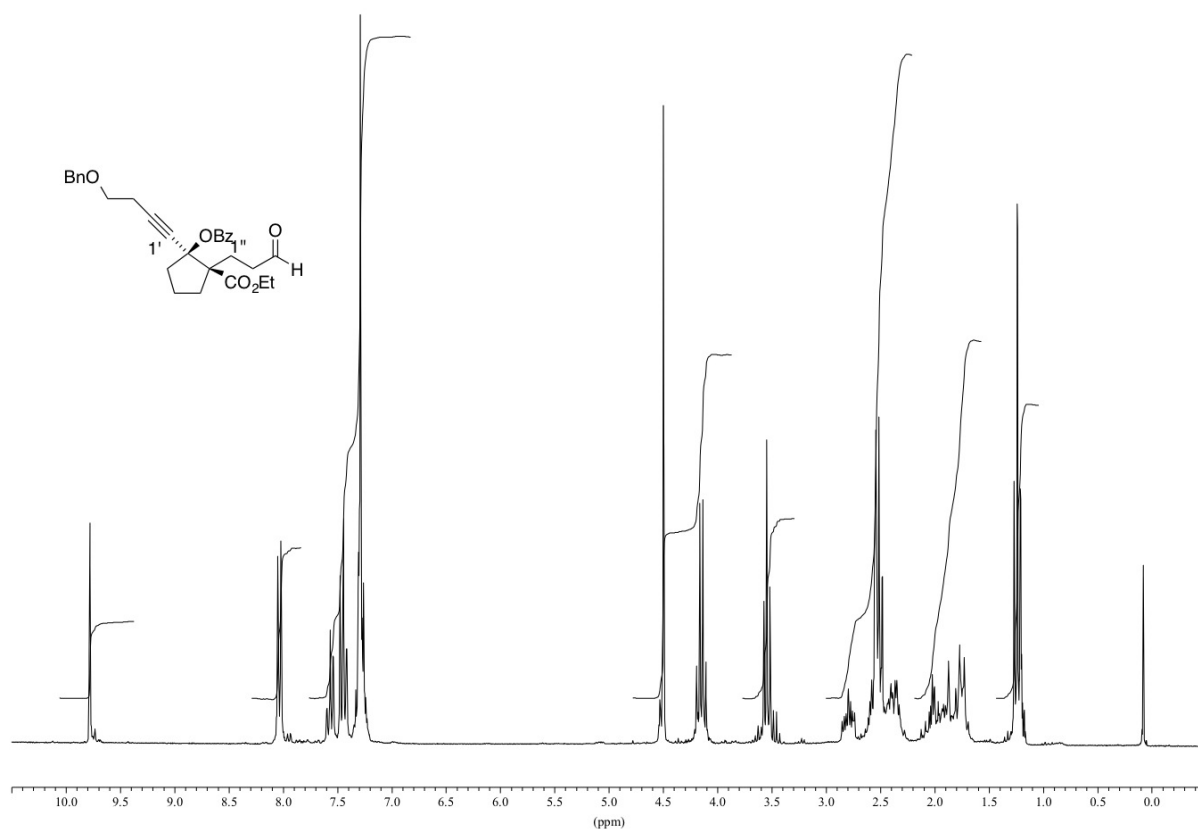
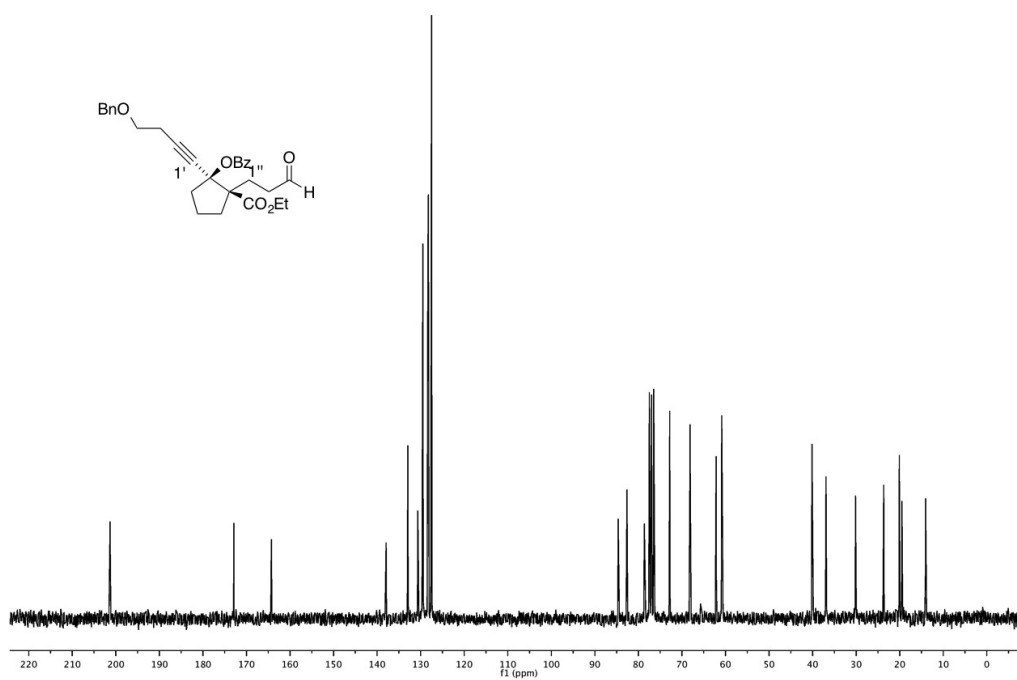
**<sup>1</sup>H NMR (250 MHz, CDCl<sub>3</sub>) Spectrum of 4b****<sup>13</sup>C NMR (62.9 MHz, CDCl<sub>3</sub>) Spectrum of 4b**

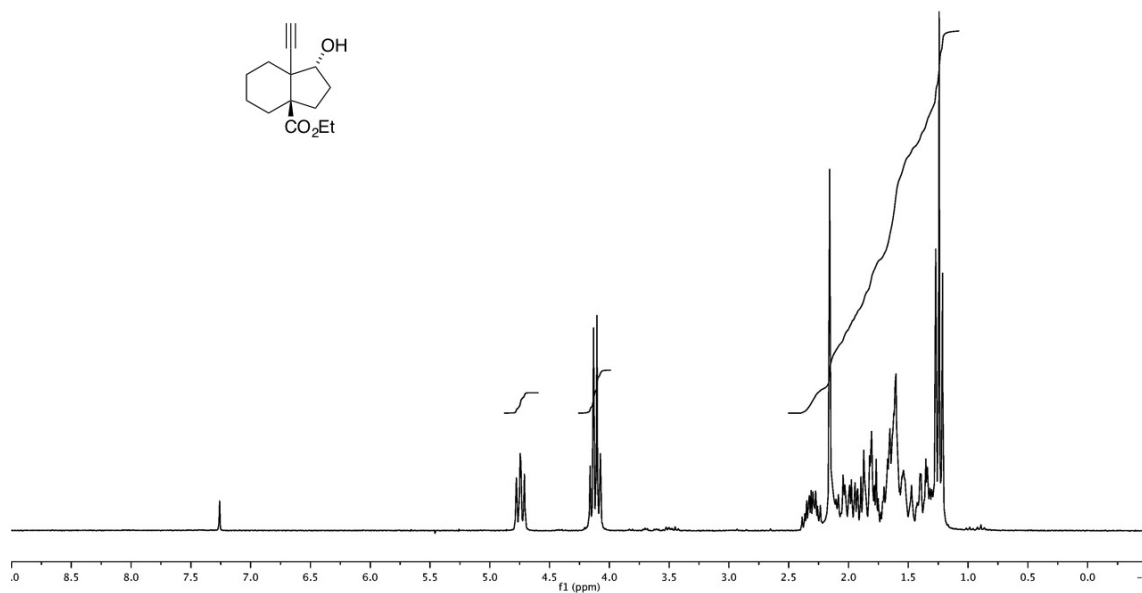
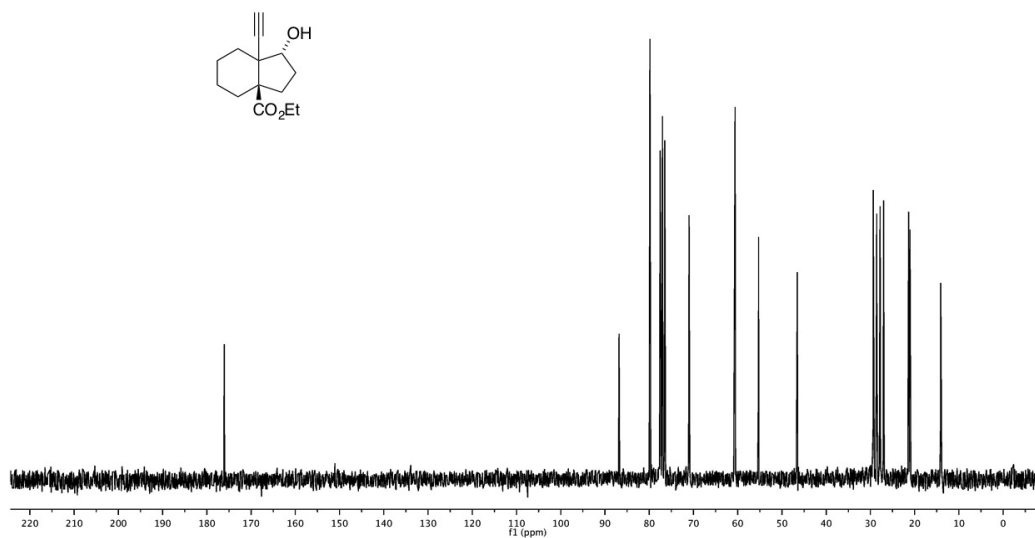
**<sup>1</sup>H NMR (250 MHz, CDCl<sub>3</sub>) Spectrum of 5b****<sup>13</sup>C NMR (62.9 MHz, CDCl<sub>3</sub>) Spectrum of 5b**

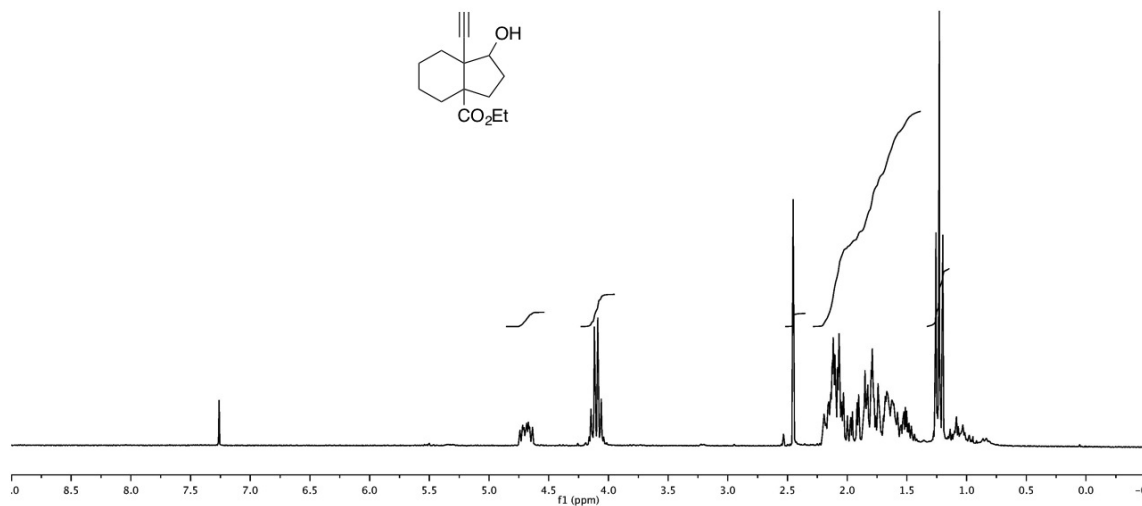
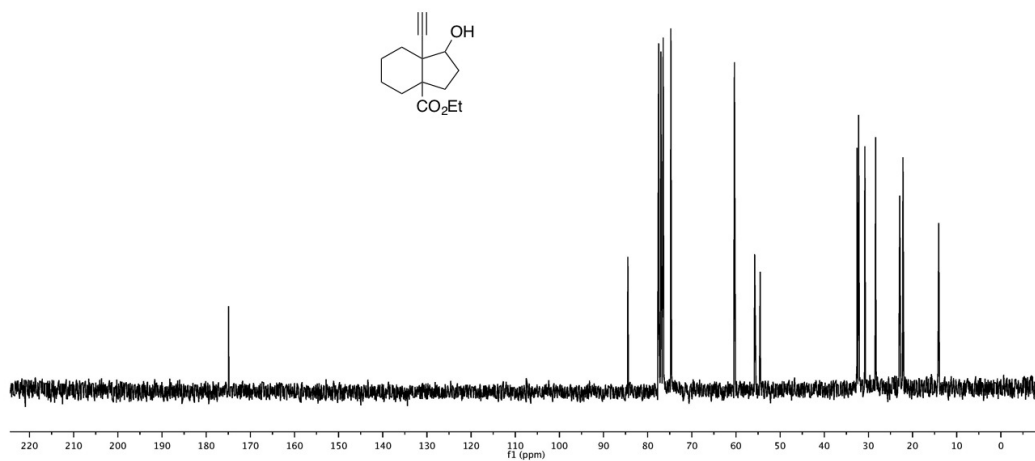
**$^1\text{H}$  NMR (250 MHz,  $\text{CDCl}_3$ ) Spectrum of 1b** **$^{13}\text{C}$  NMR (62.9 MHz,  $\text{CDCl}_3$ ) Spectrum of 1b**

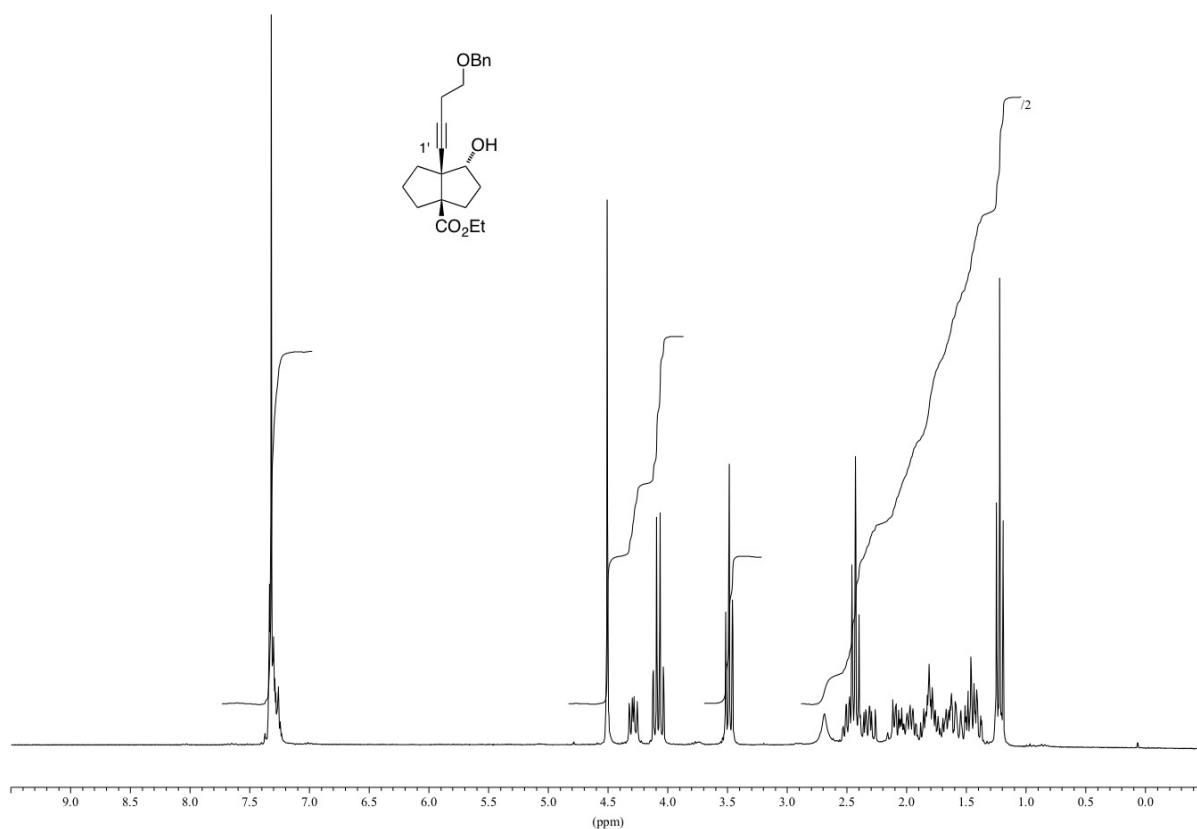
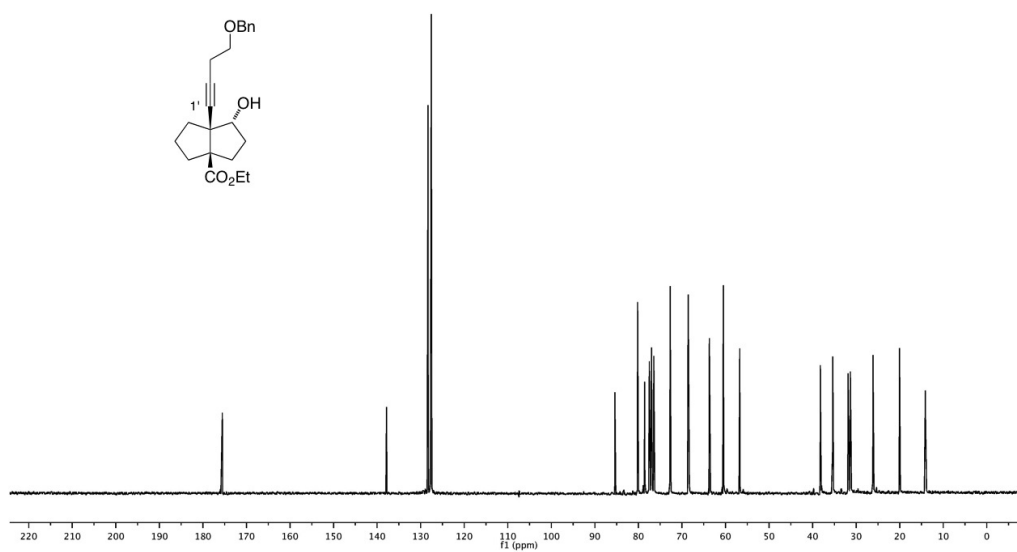
**<sup>1</sup>H NMR (250 MHz, CDCl<sub>3</sub>) Spectrum of 5c****<sup>13</sup>C NMR (62.9 MHz, CDCl<sub>3</sub>) Spectrum of 5c**

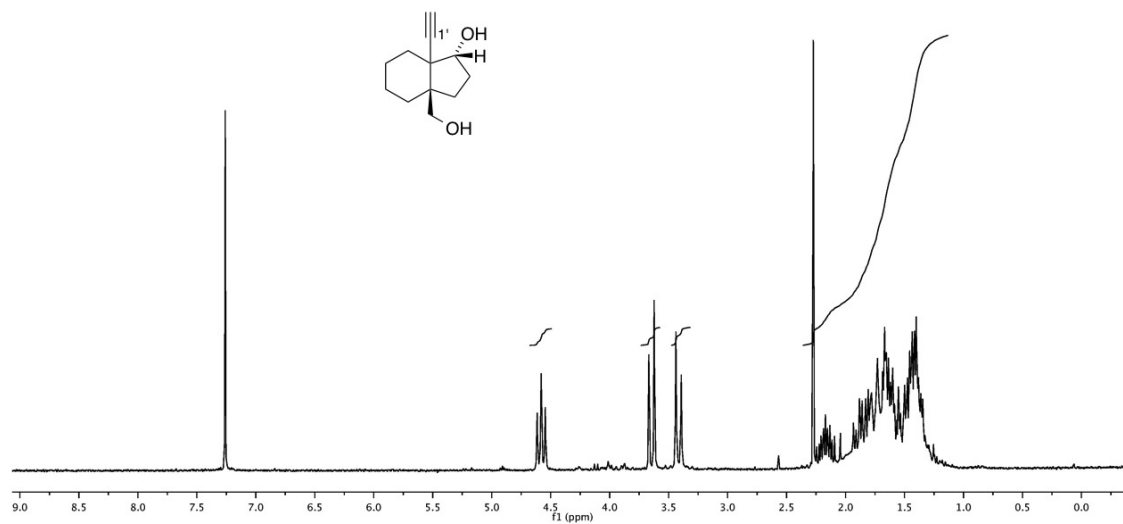


**$^1\text{H}$  NMR (250 MHz,  $\text{CDCl}_3$ ) Spectrum of 1c** **$^{13}\text{C}$  NMR (62.9 MHz,  $\text{CDCl}_3$ ) Spectrum of 1c**

**$^1\text{H}$  NMR (250 MHz,  $\text{CDCl}_3$ ) Spectrum of 2b** **$^{13}\text{C}$  NMR (62.9 MHz,  $\text{CDCl}_3$ ) Spectrum of 2b**

**<sup>1</sup>H NMR (250 MHz, CDCl<sub>3</sub>) Spectrum of 2b'****<sup>13</sup>C NMR (62.9 MHz, CDCl<sub>3</sub>) Spectrum of 2b'**

**<sup>1</sup>H NMR (250 MHz, CDCl<sub>3</sub>) Spectrum of 2c****<sup>13</sup>C NMR (62.9 MHz, CDCl<sub>3</sub>) Spectrum of 2c**

**$^1\text{H}$  NMR (250 MHz,  $\text{CDCl}_3$ ) Spectrum of 7** **$^{13}\text{C}$  NMR (62.9 MHz,  $\text{CDCl}_3$ ) Spectrum of 7**