

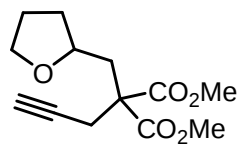
Hydroalkylation of Alkynyl ethers *via* a Gold(I)-Catalyzed 1,5-Hydride Shift / Cyclization Sequence

Igor Dias Jurberg, Yann Odabachian, and Fabien Gagosz*

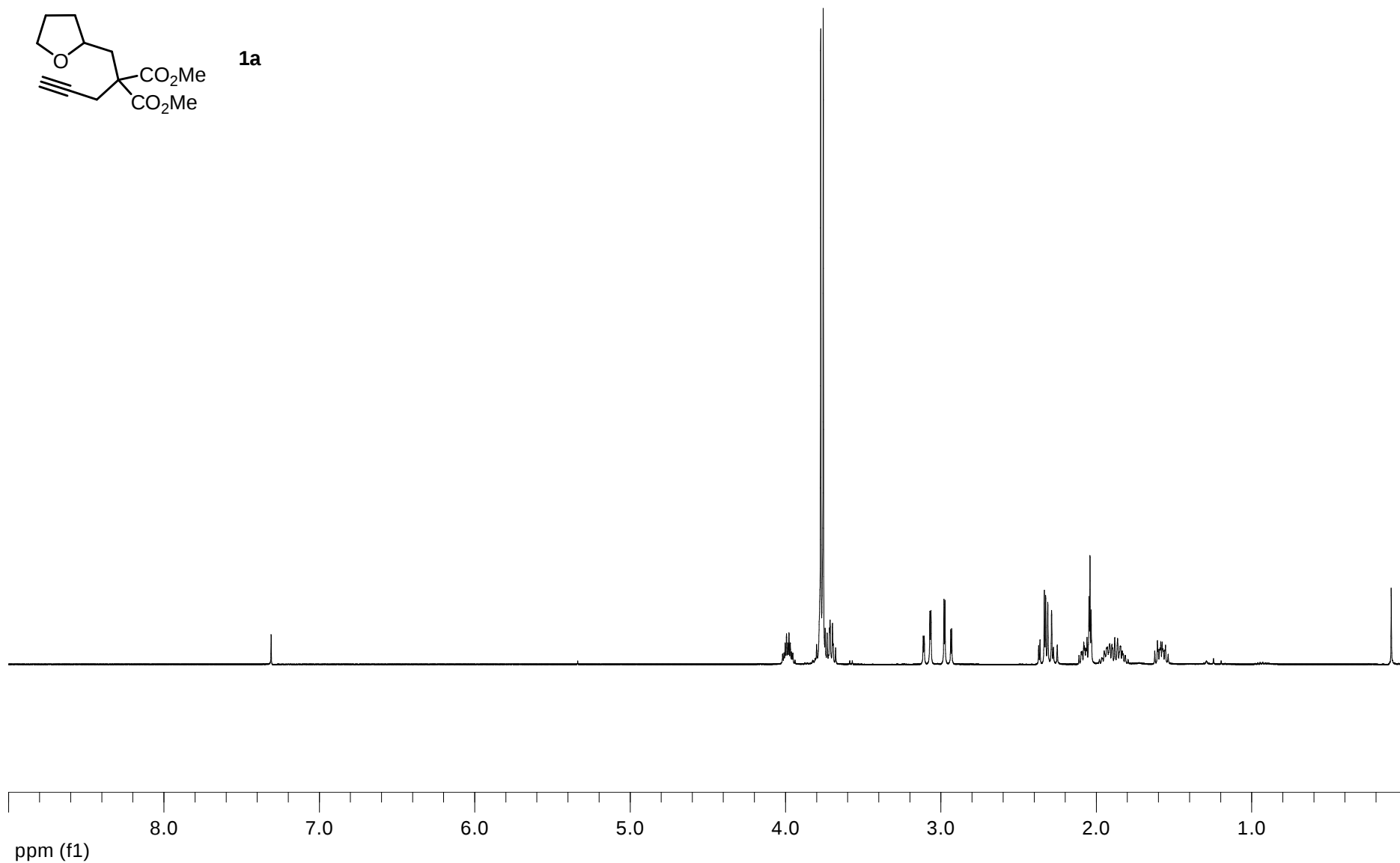
Laboratoire de Synthèse Organique, UMR 7652 CNRS / Ecole Polytechnique, 91128 Palaiseau, France.

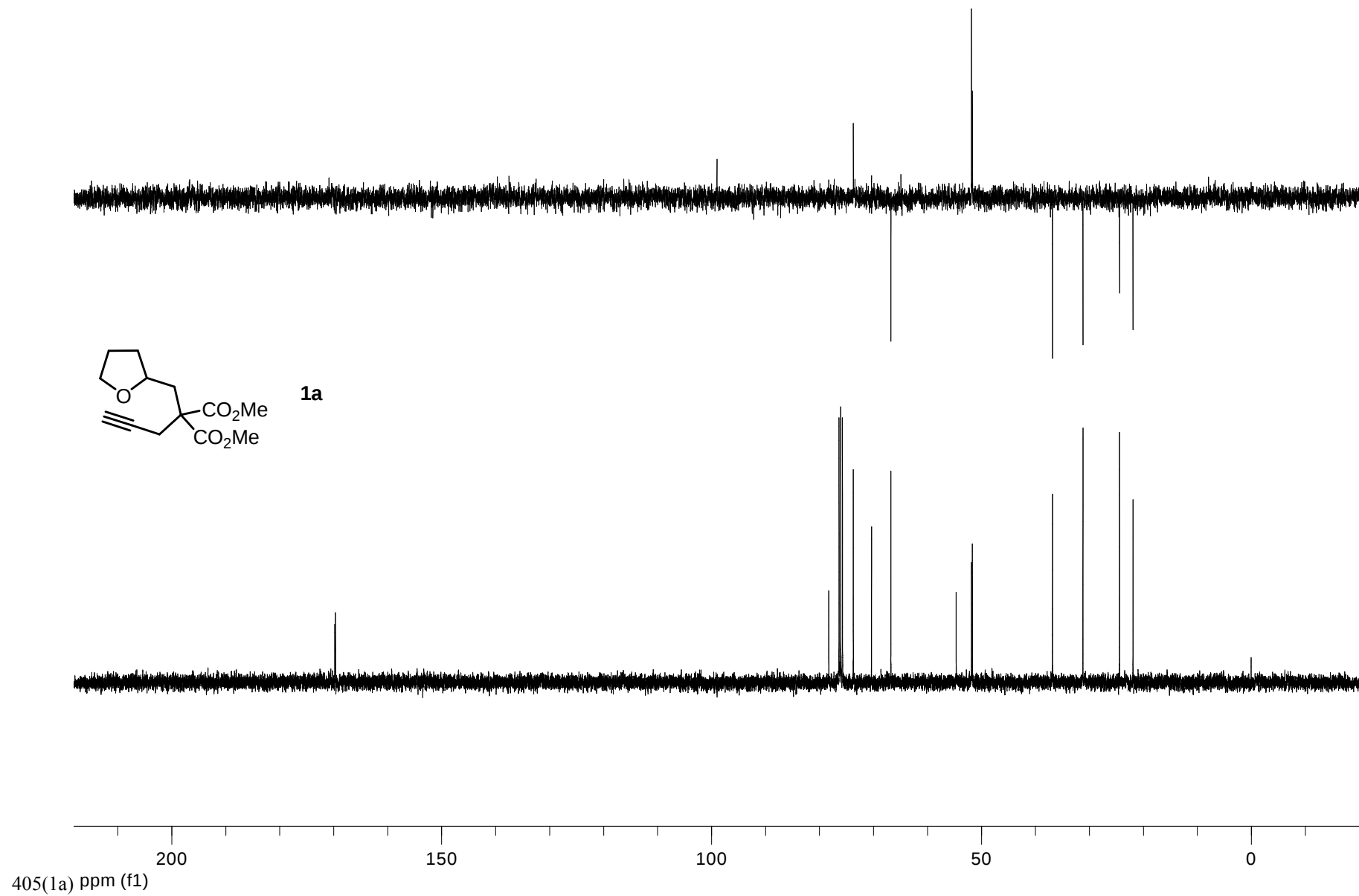
Supporting Information

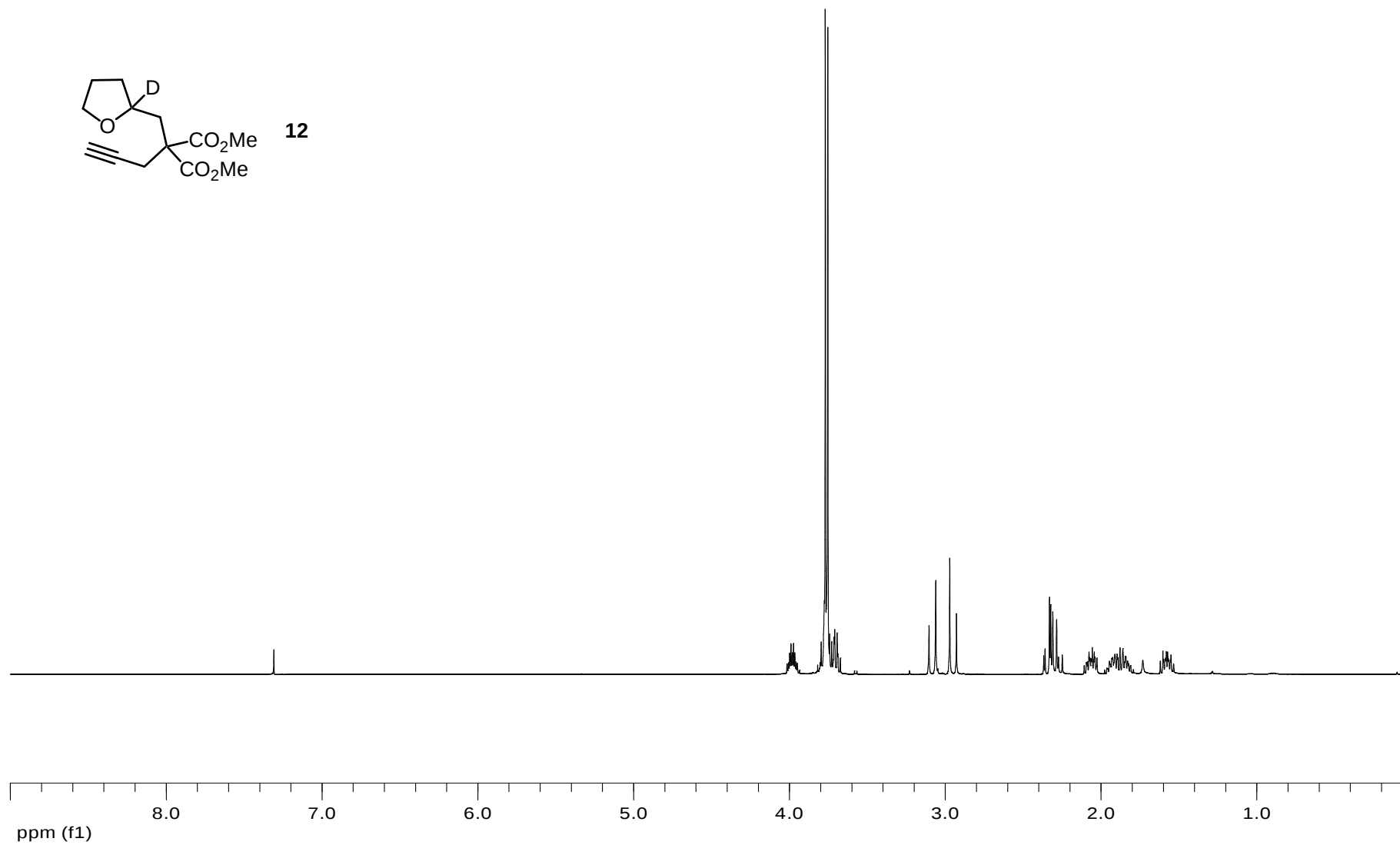
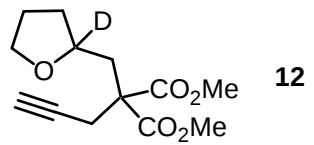
¹H- and ¹³C-NMR Spectra of starting materials 1a-l, 7a-e, 10d-f, 12, 16 and 31

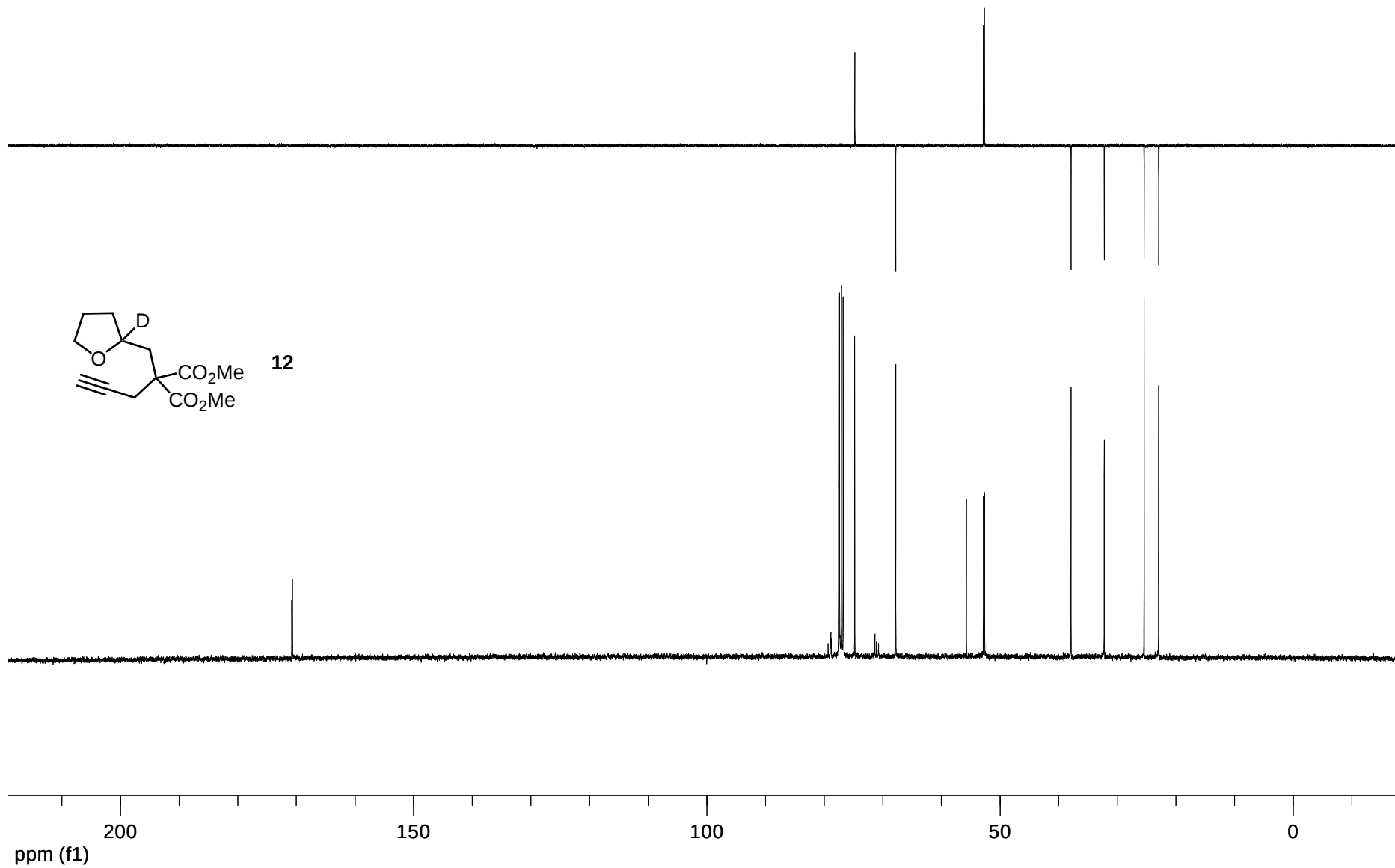


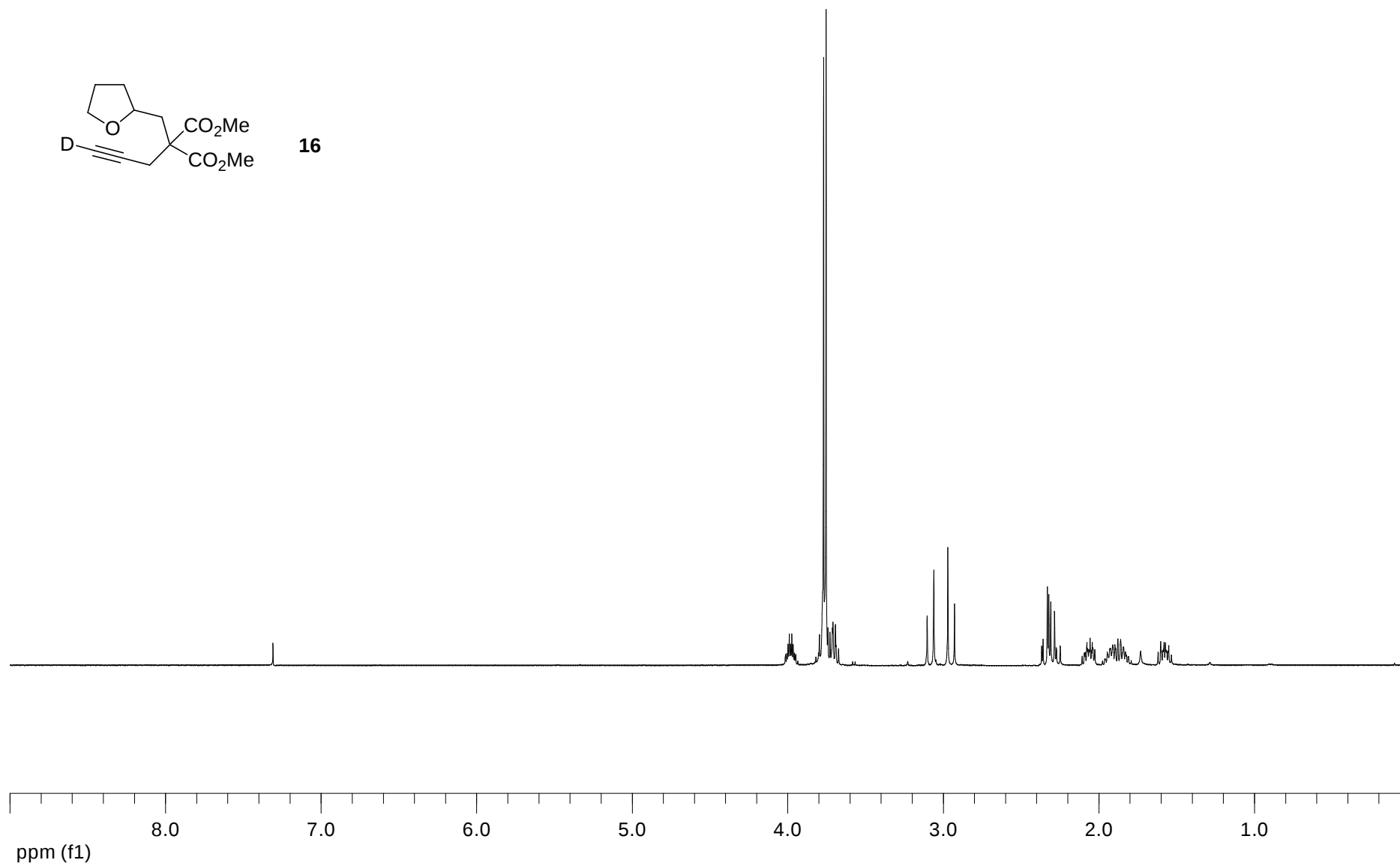
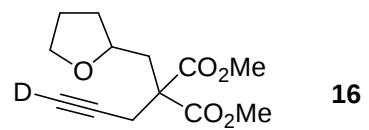
1a

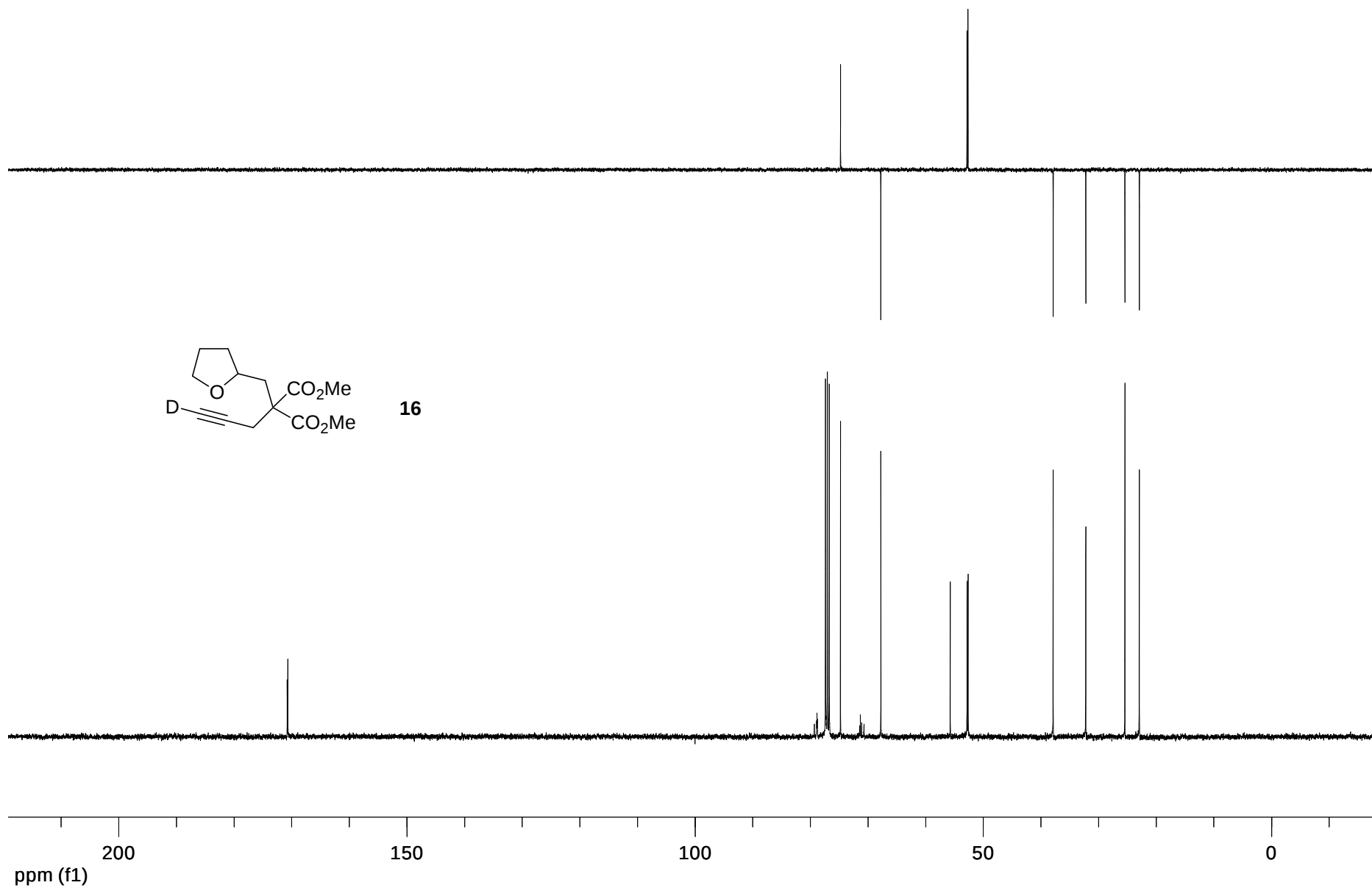


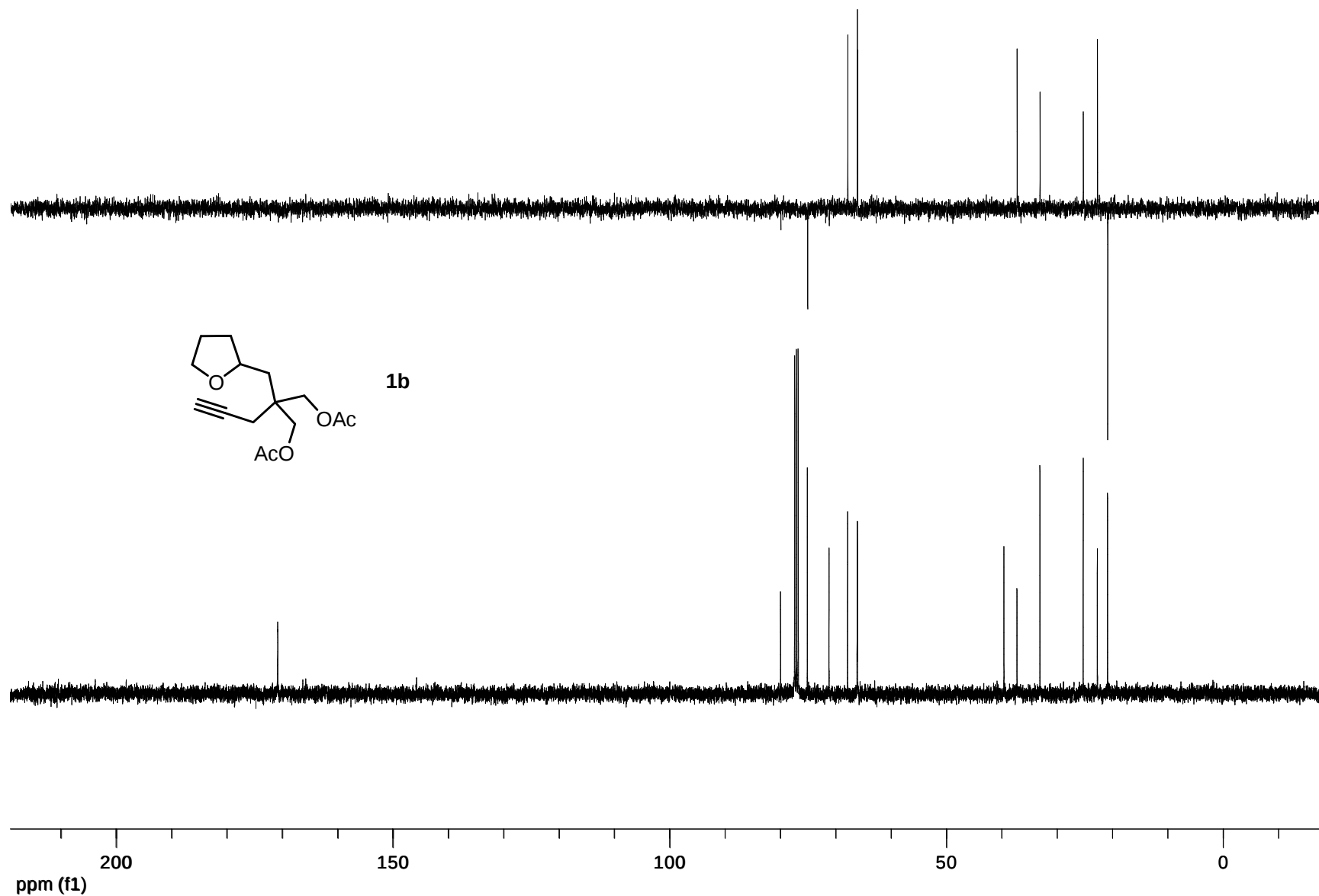


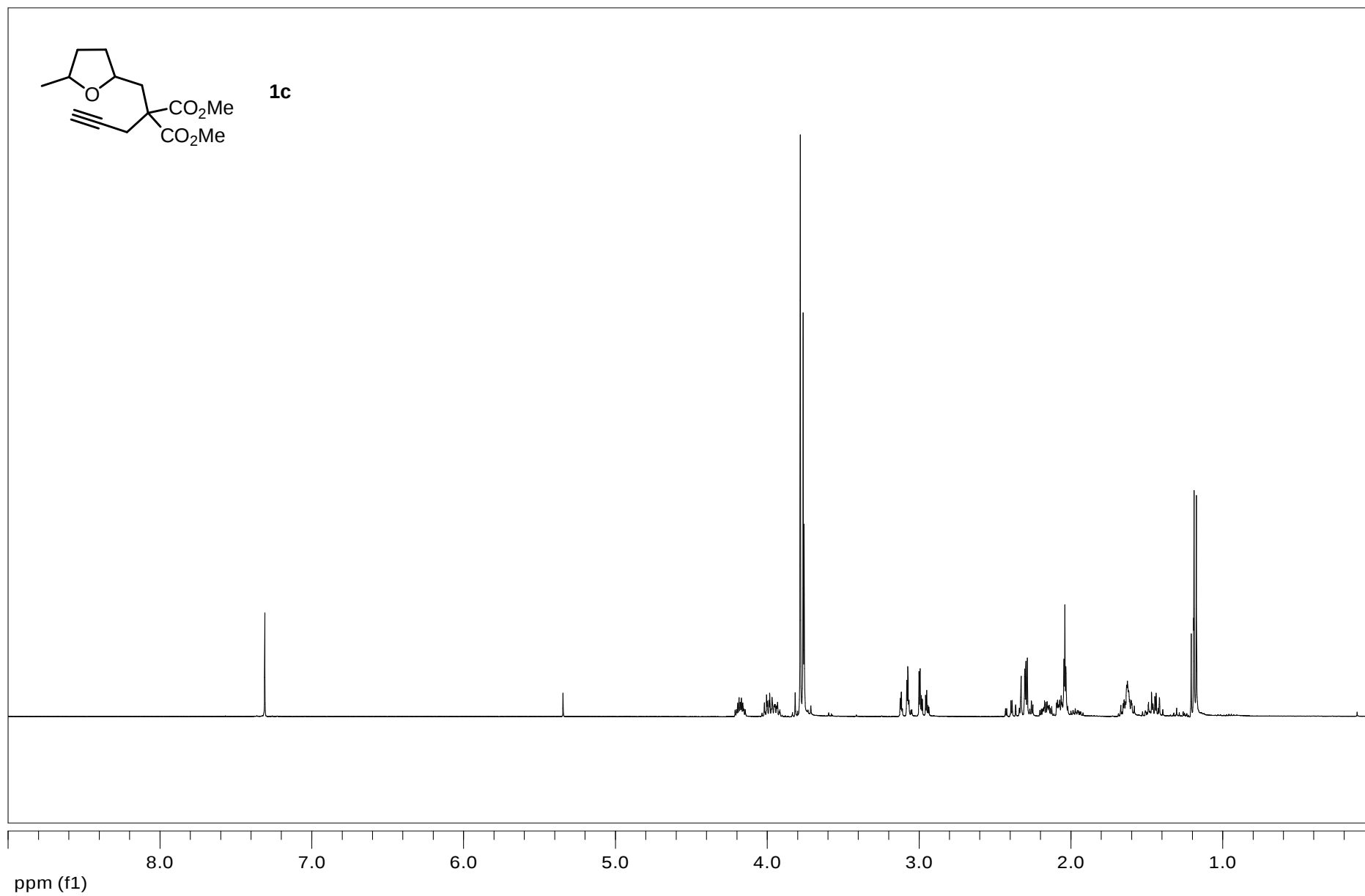


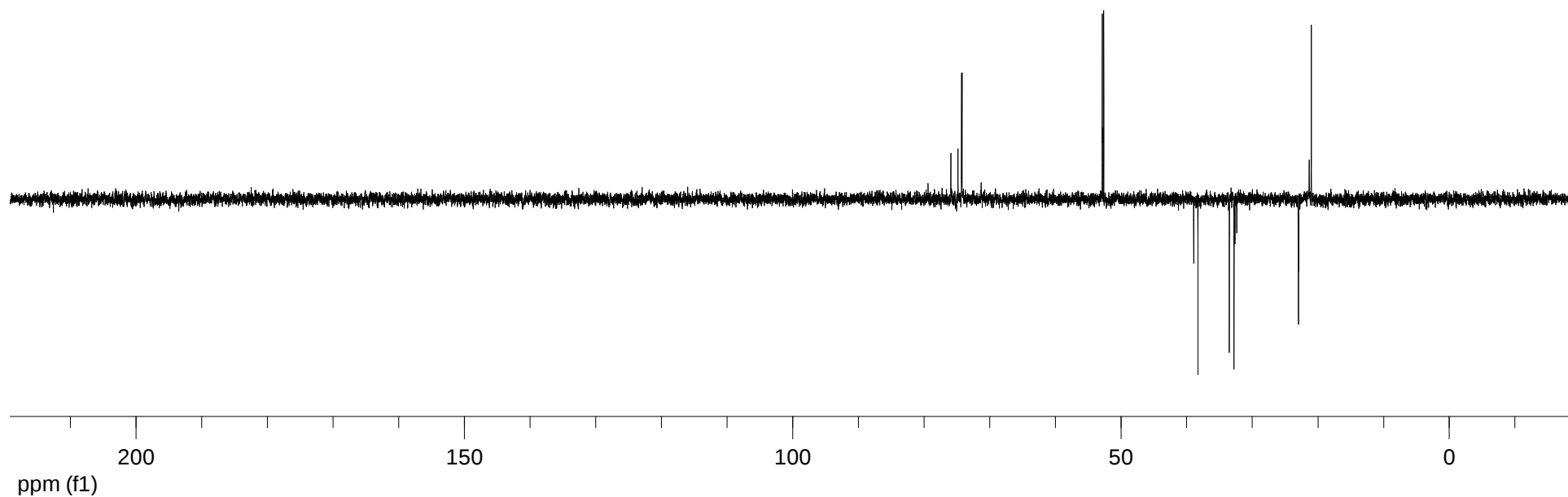
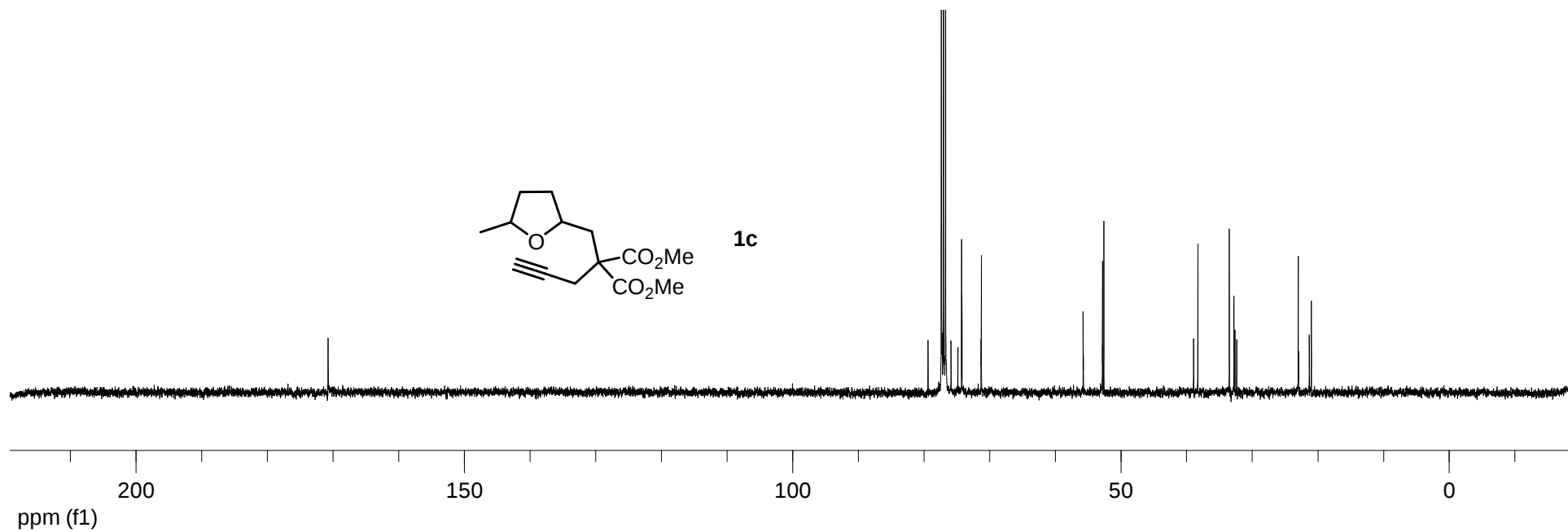
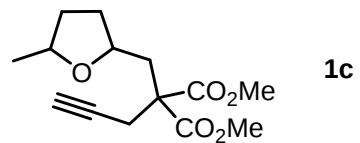


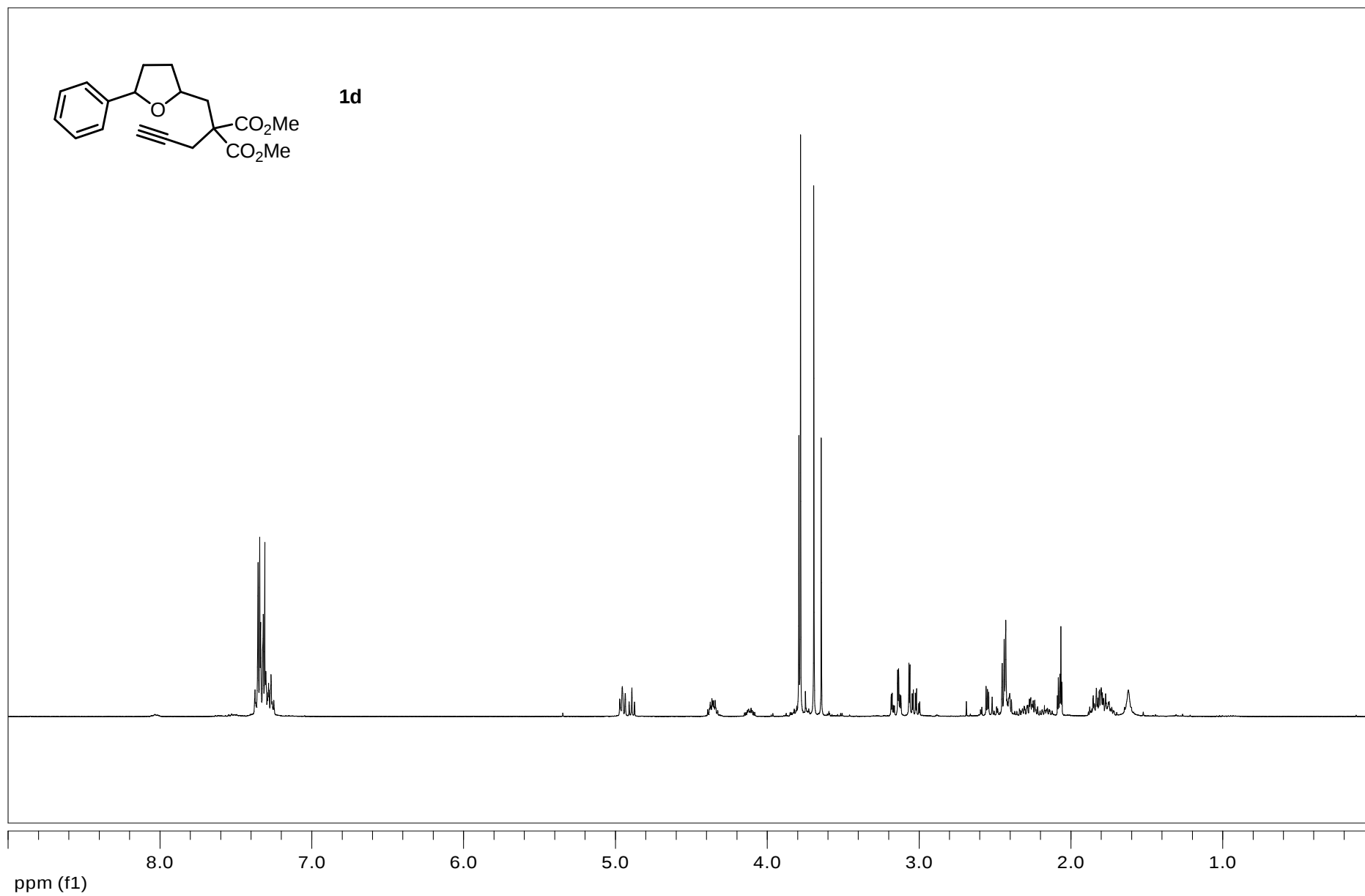


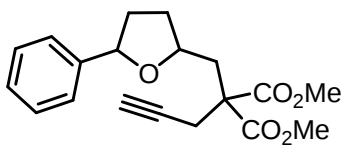




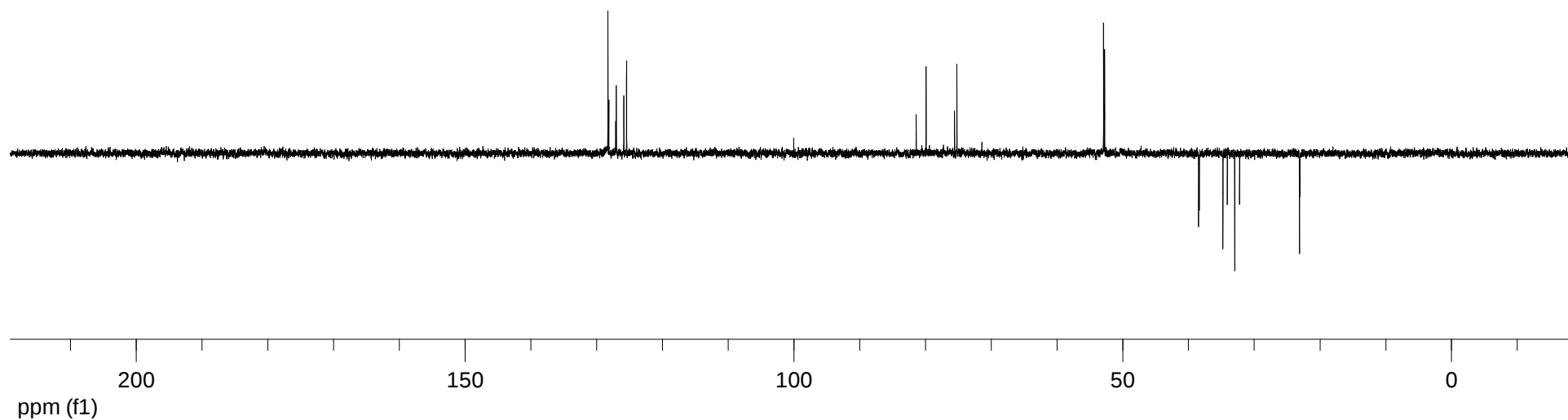
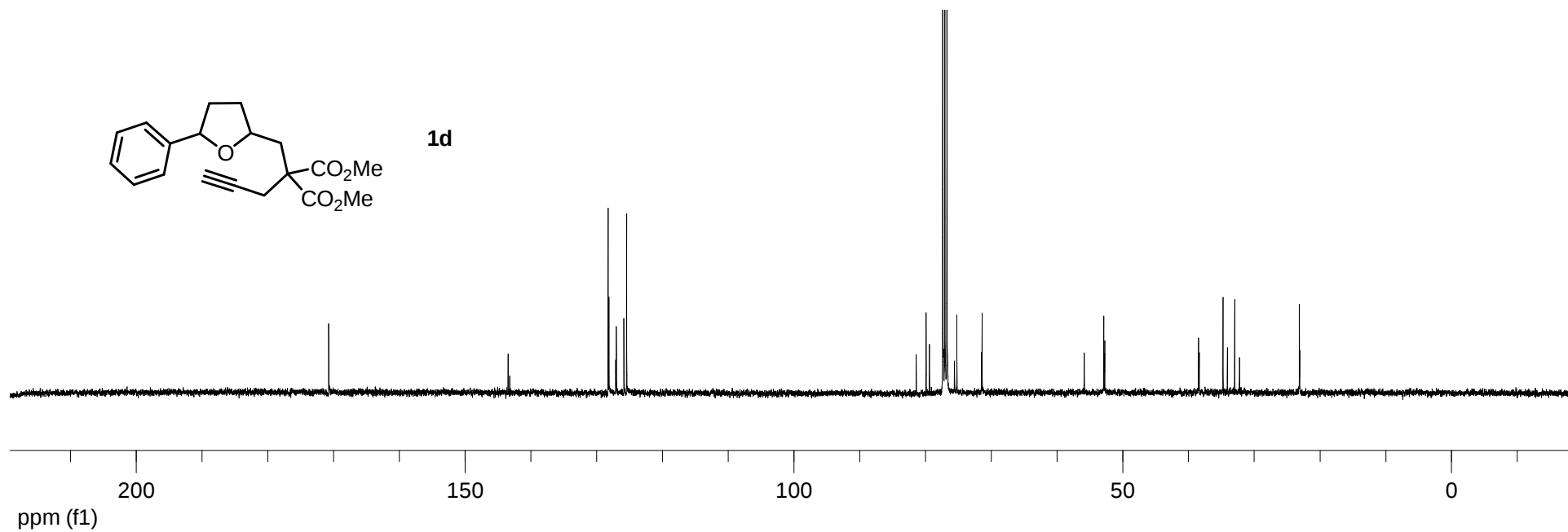


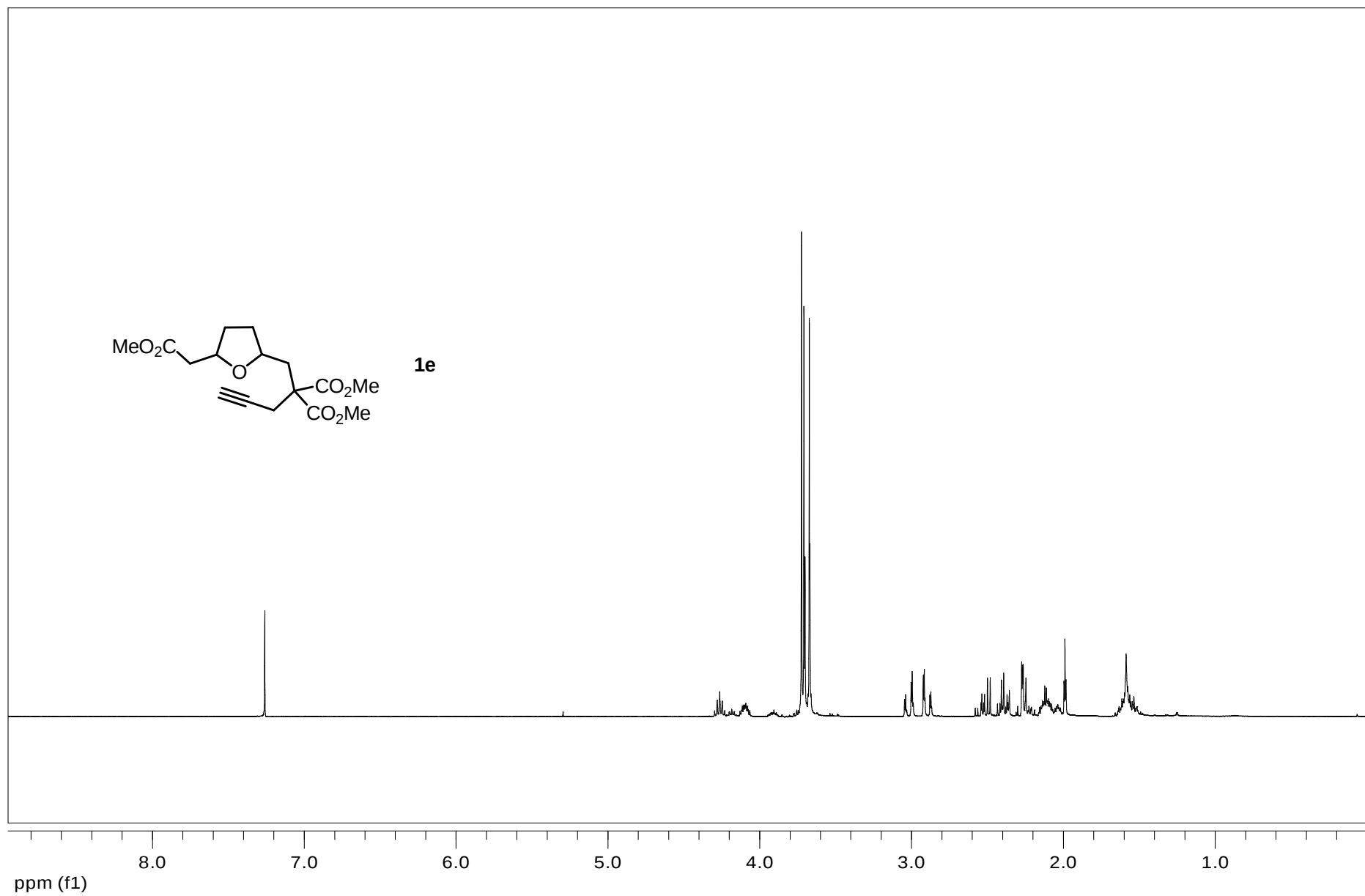


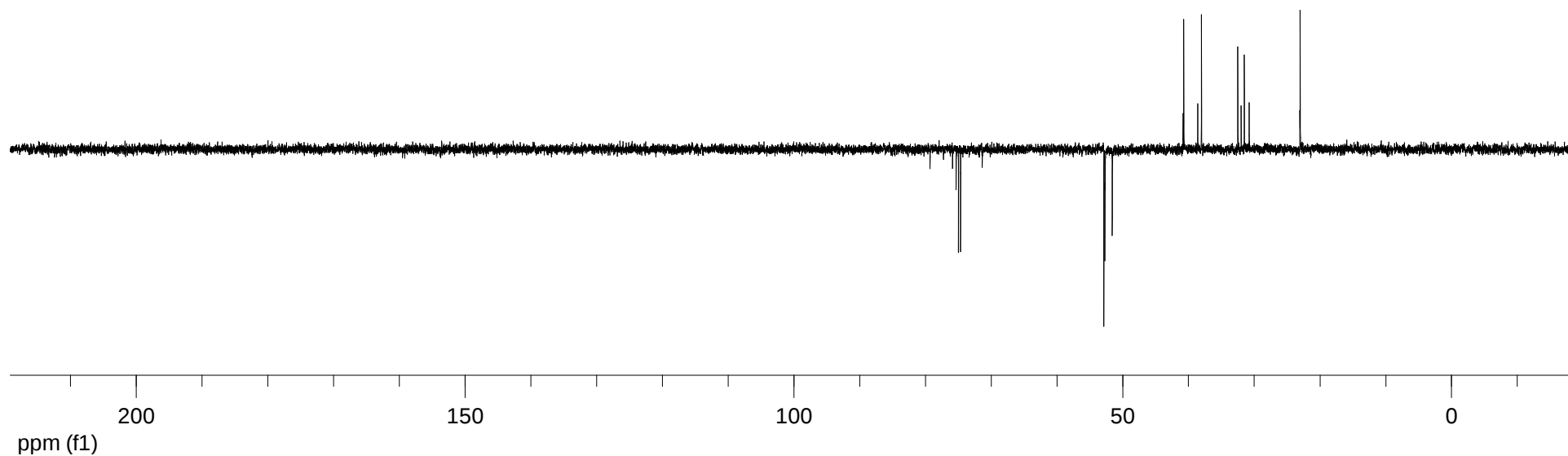
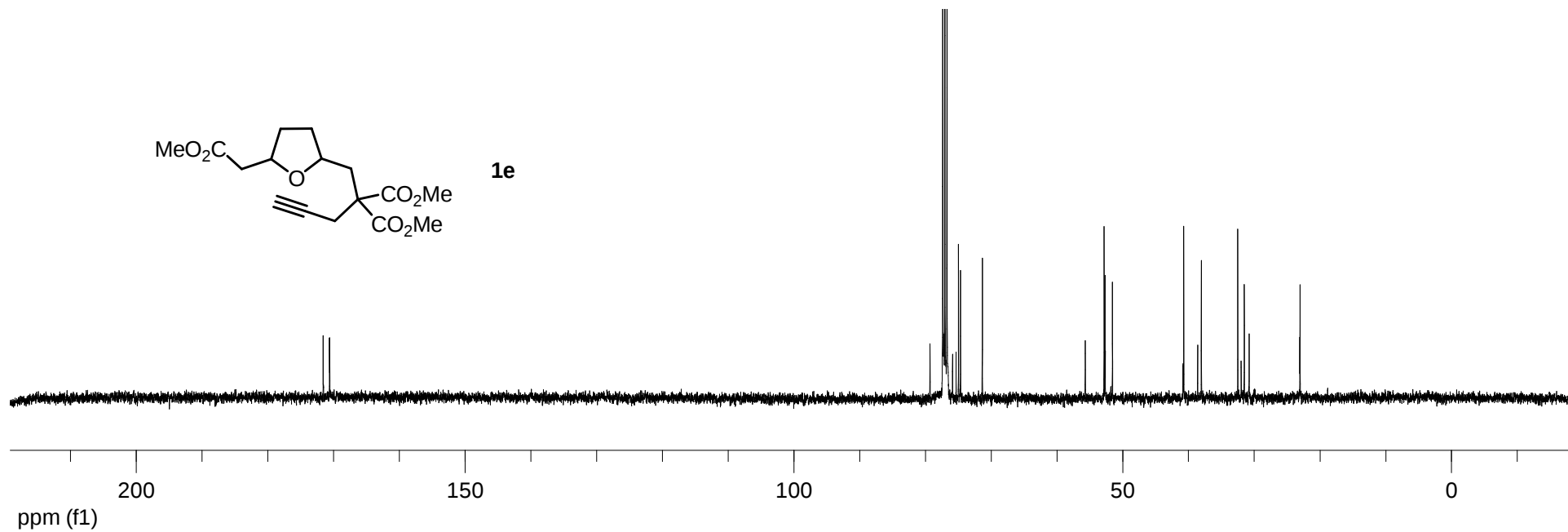
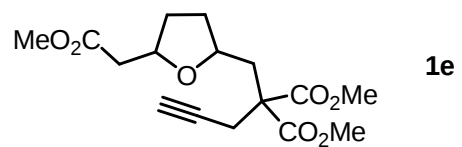




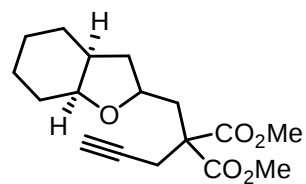
1d



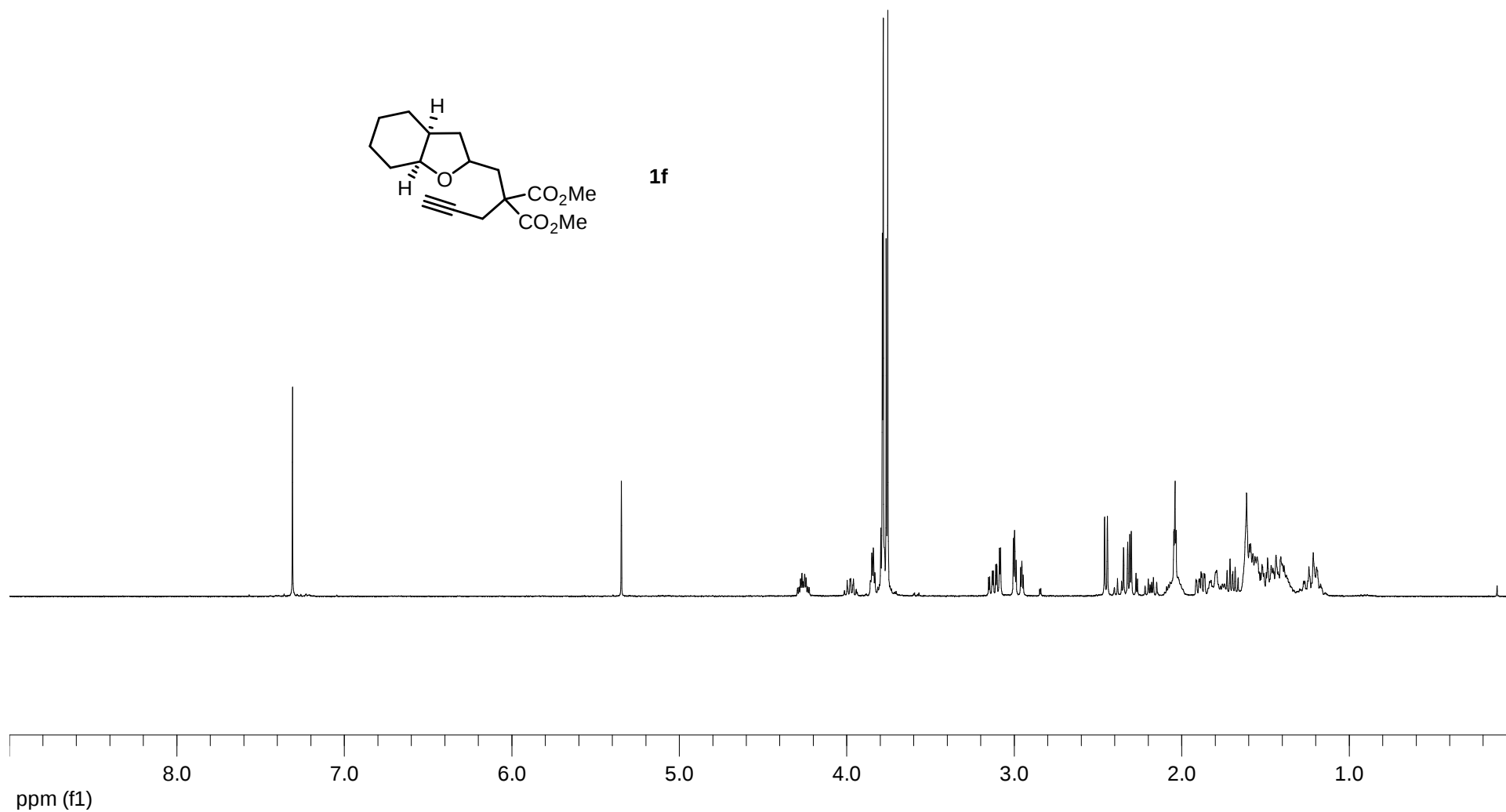


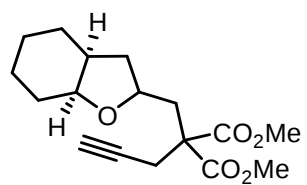


-

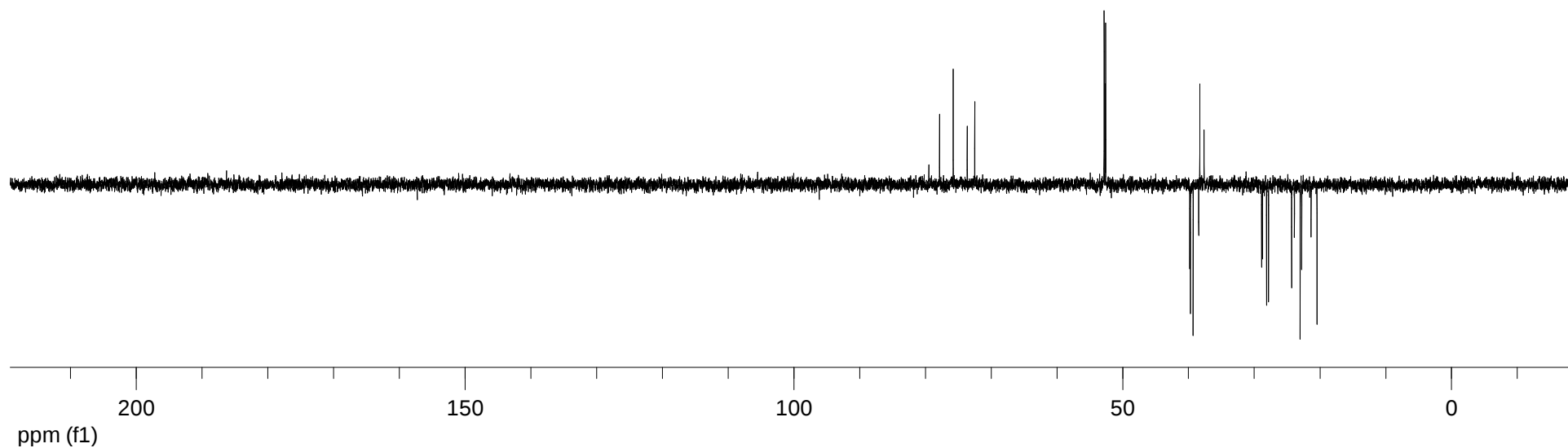
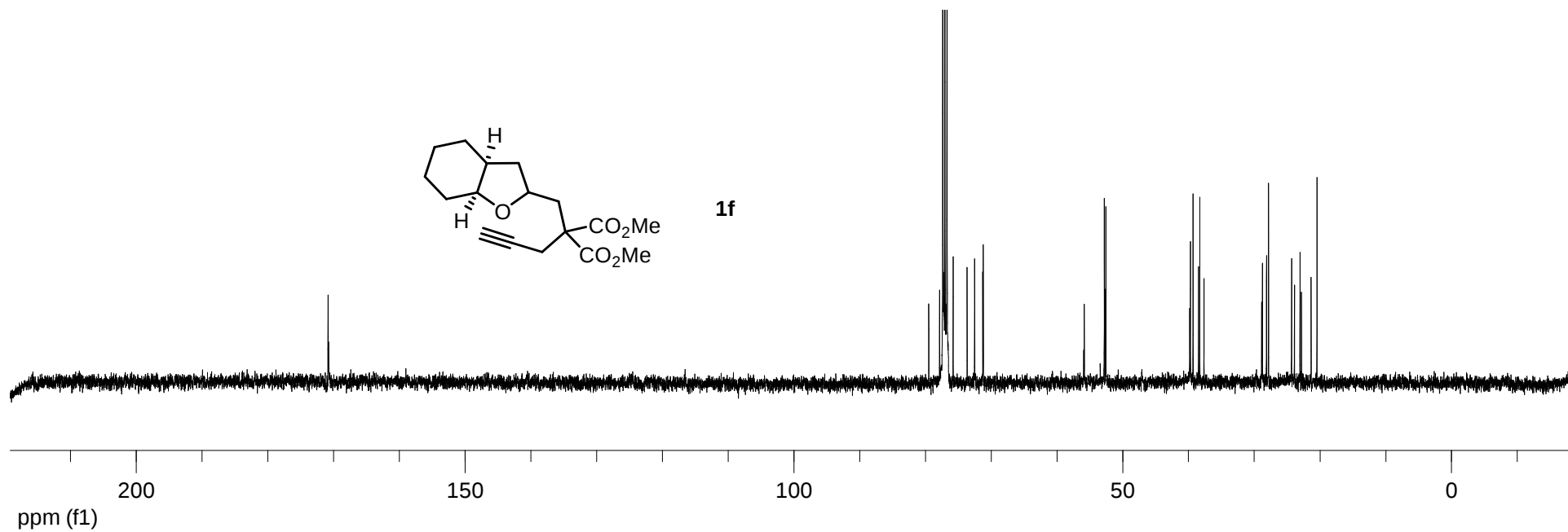


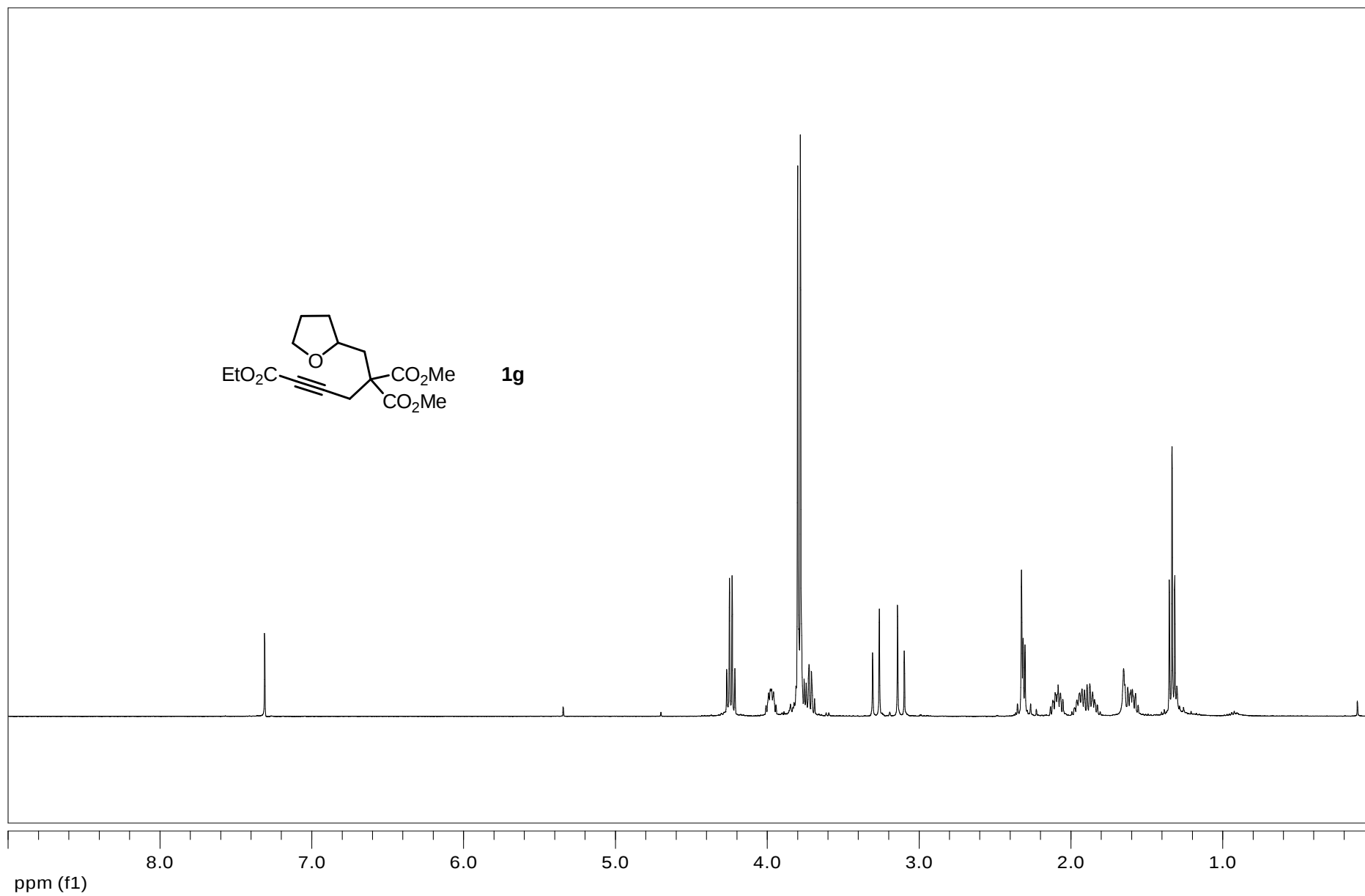
1f

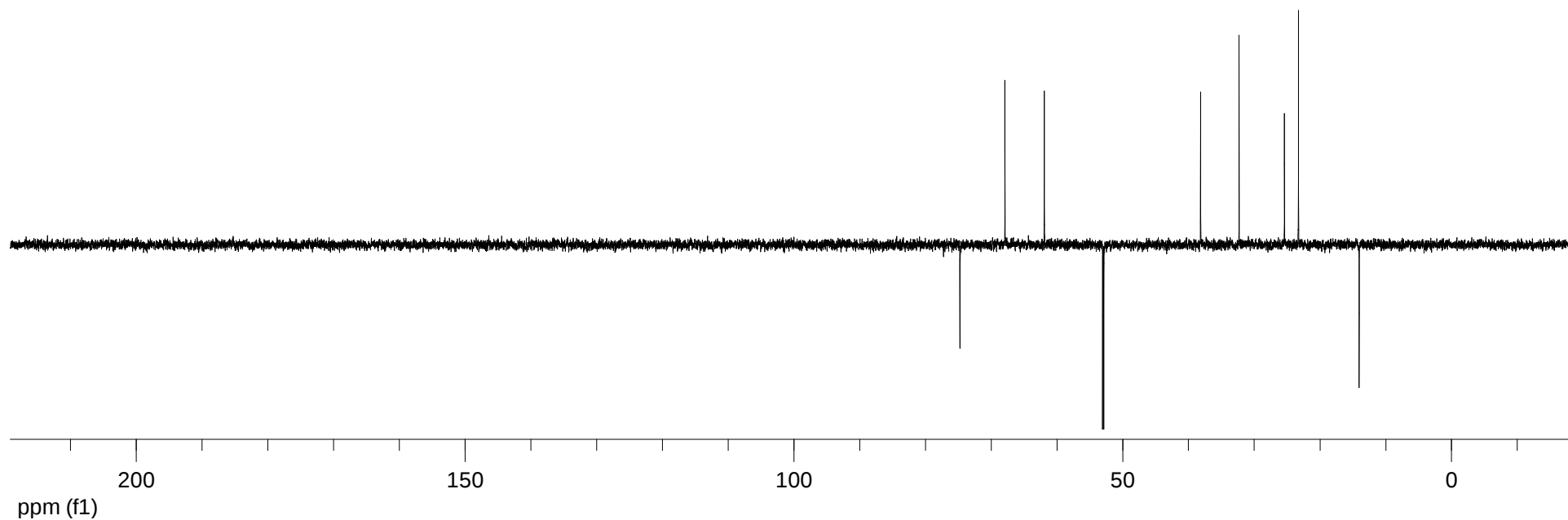
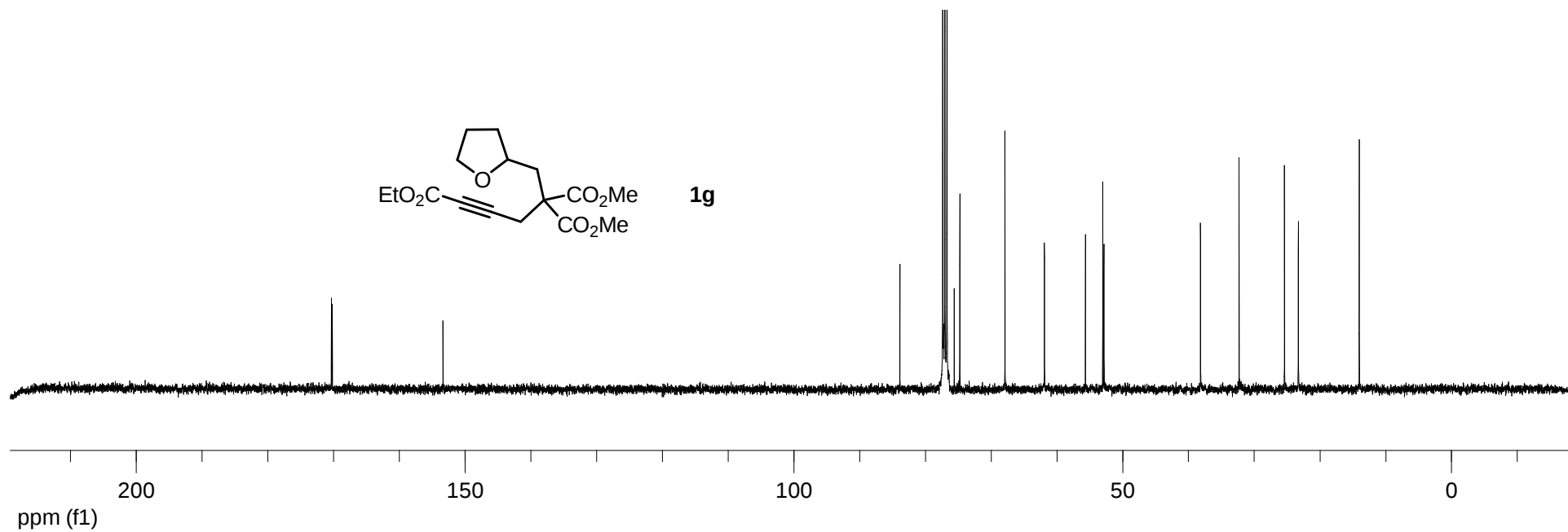
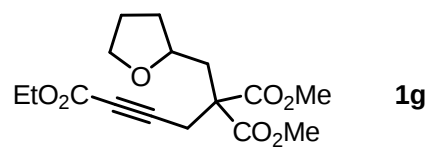


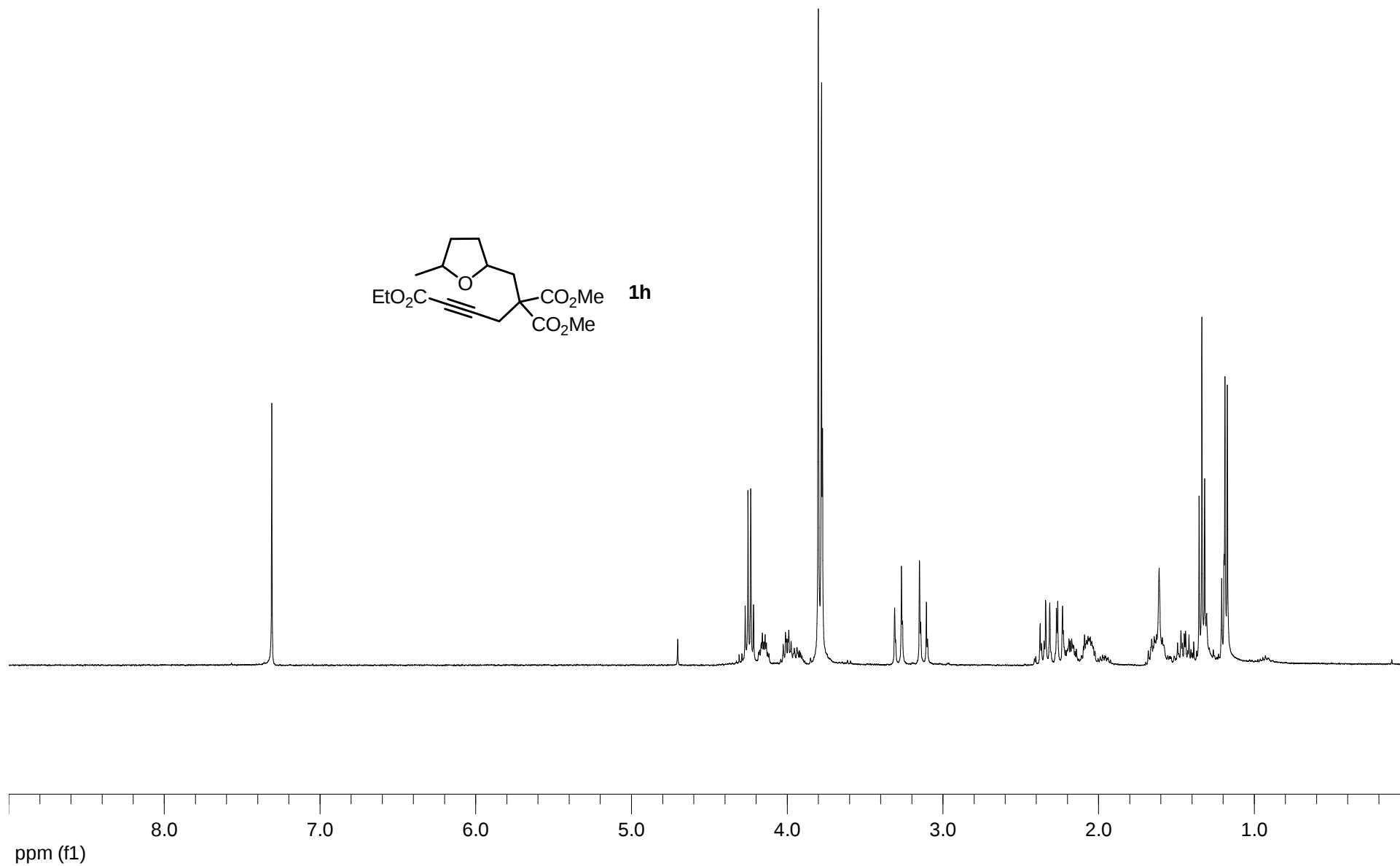
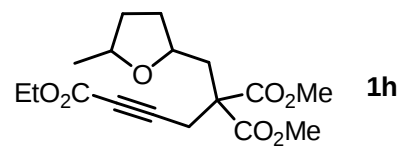


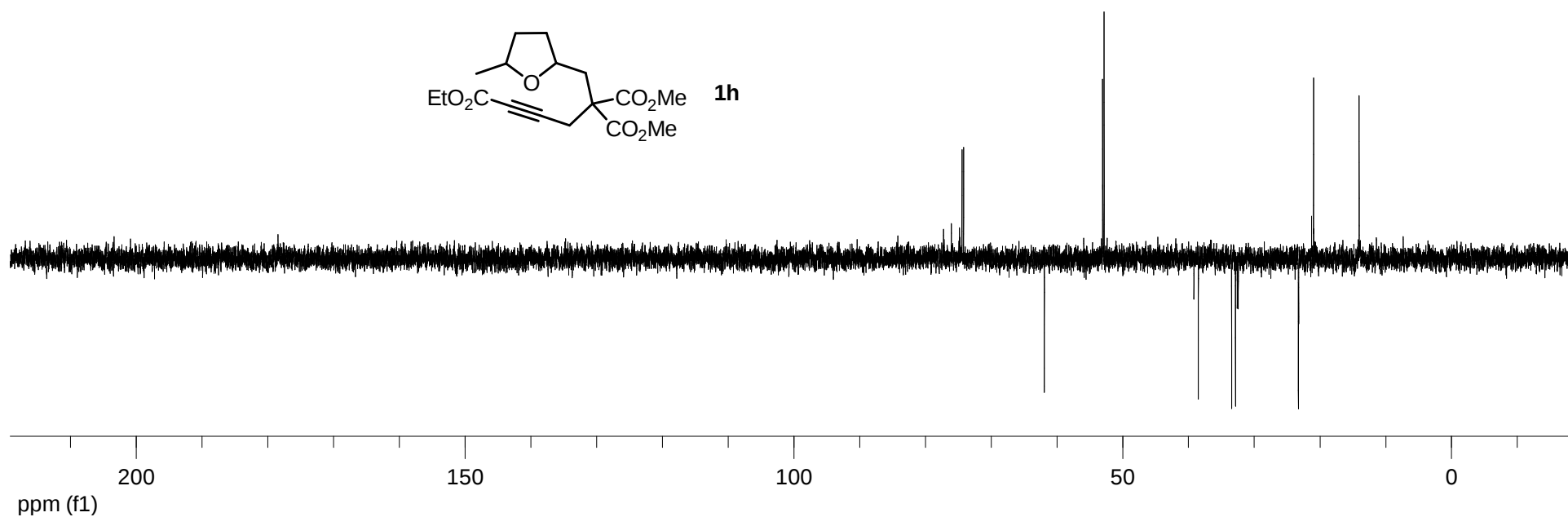
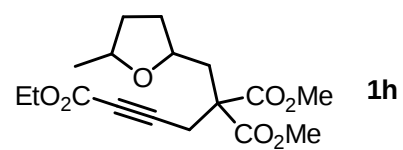
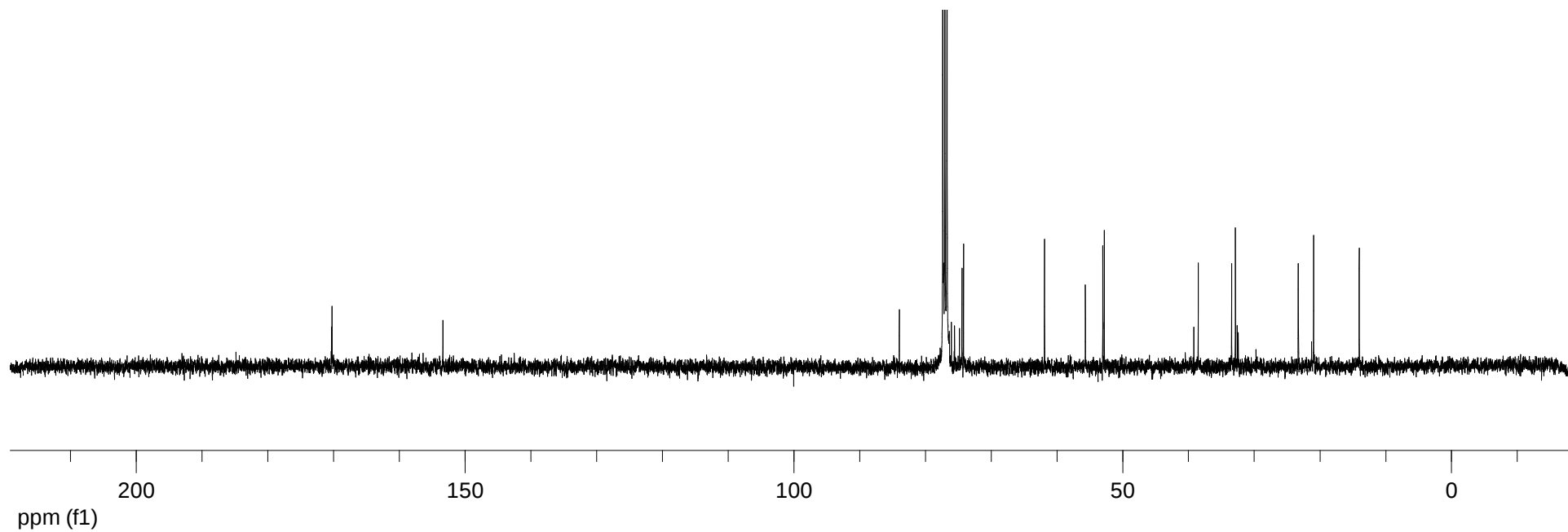
1f

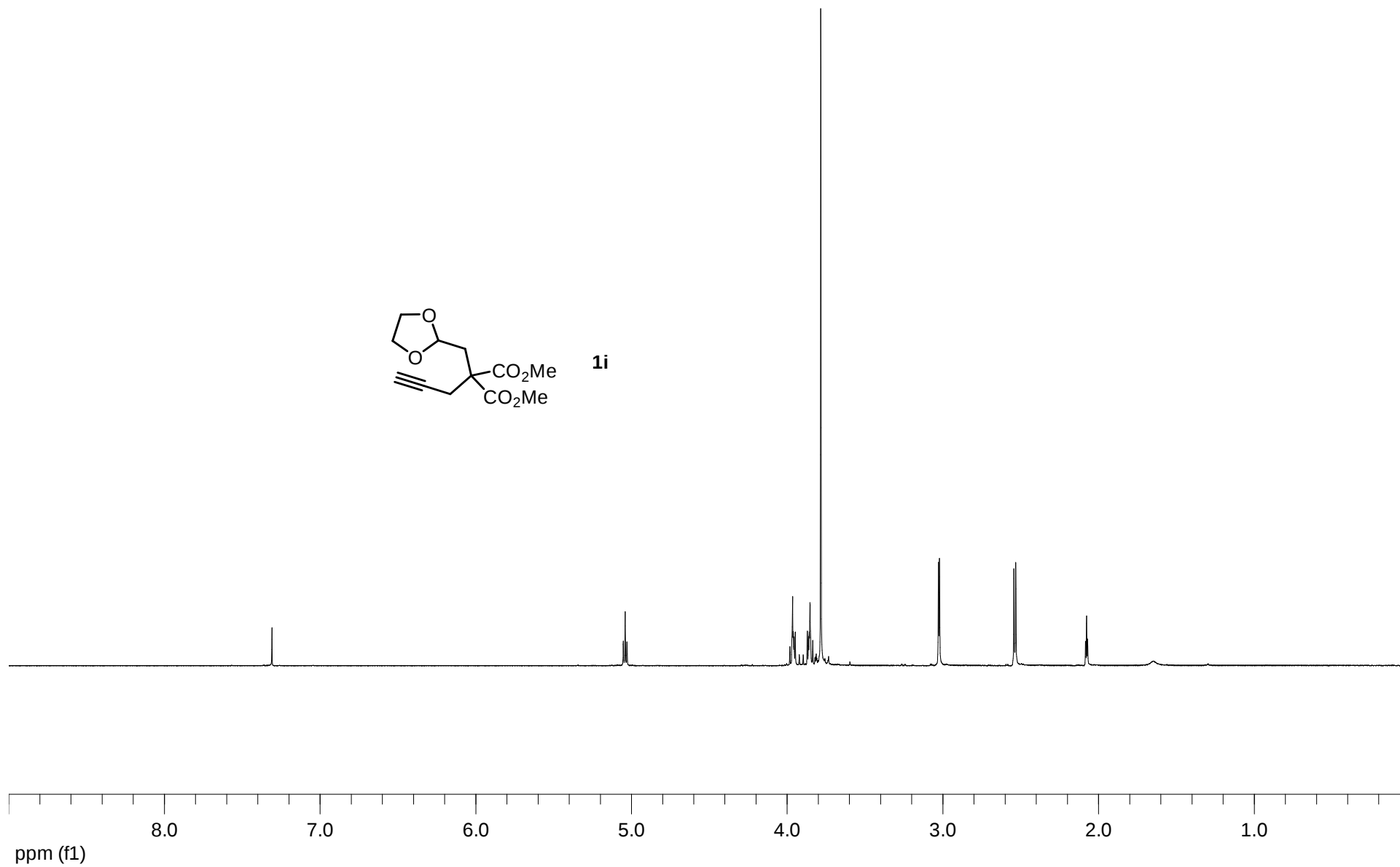
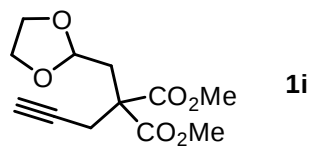


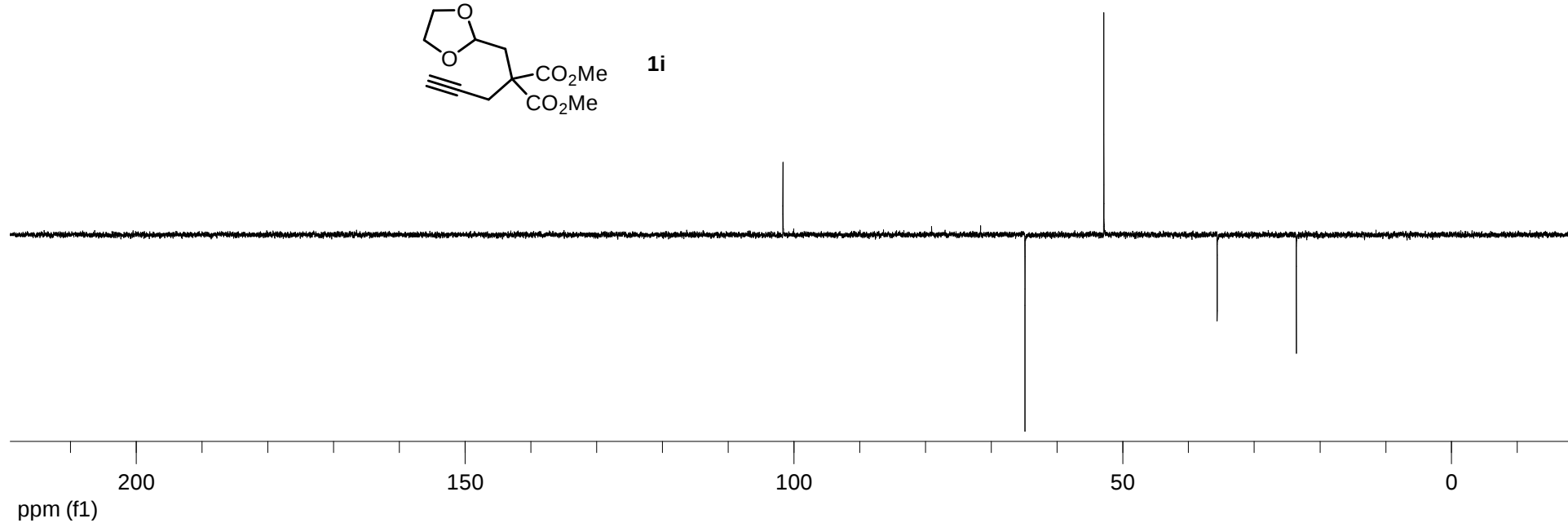
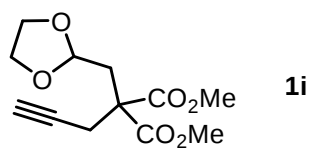
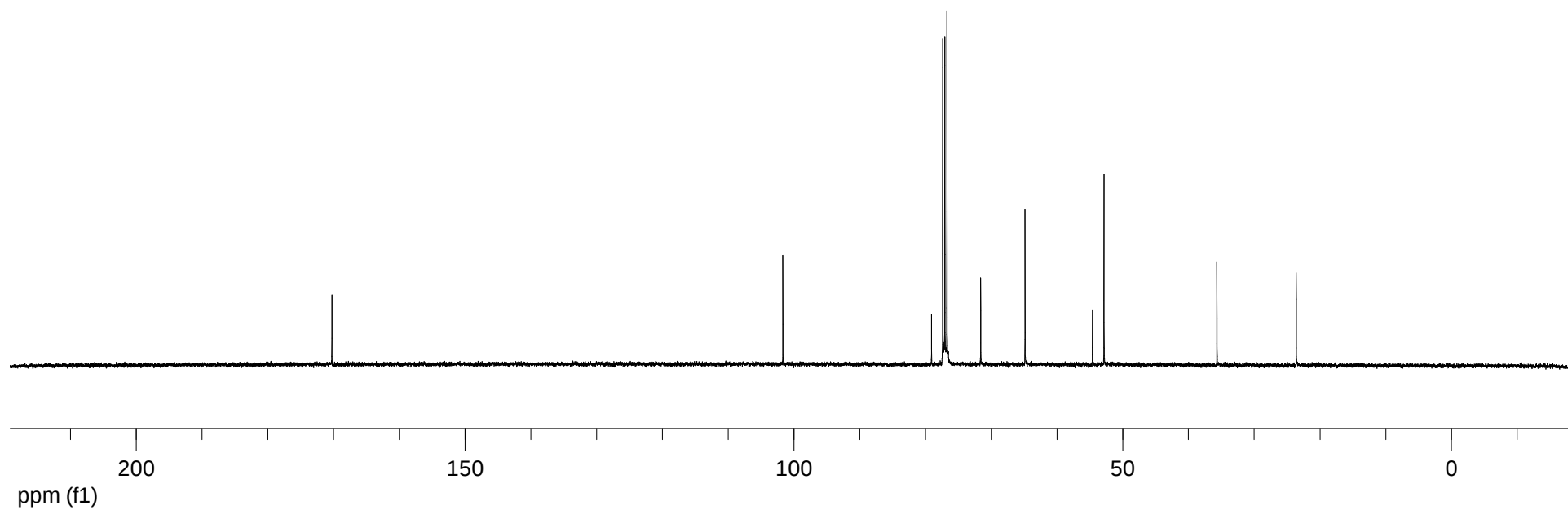


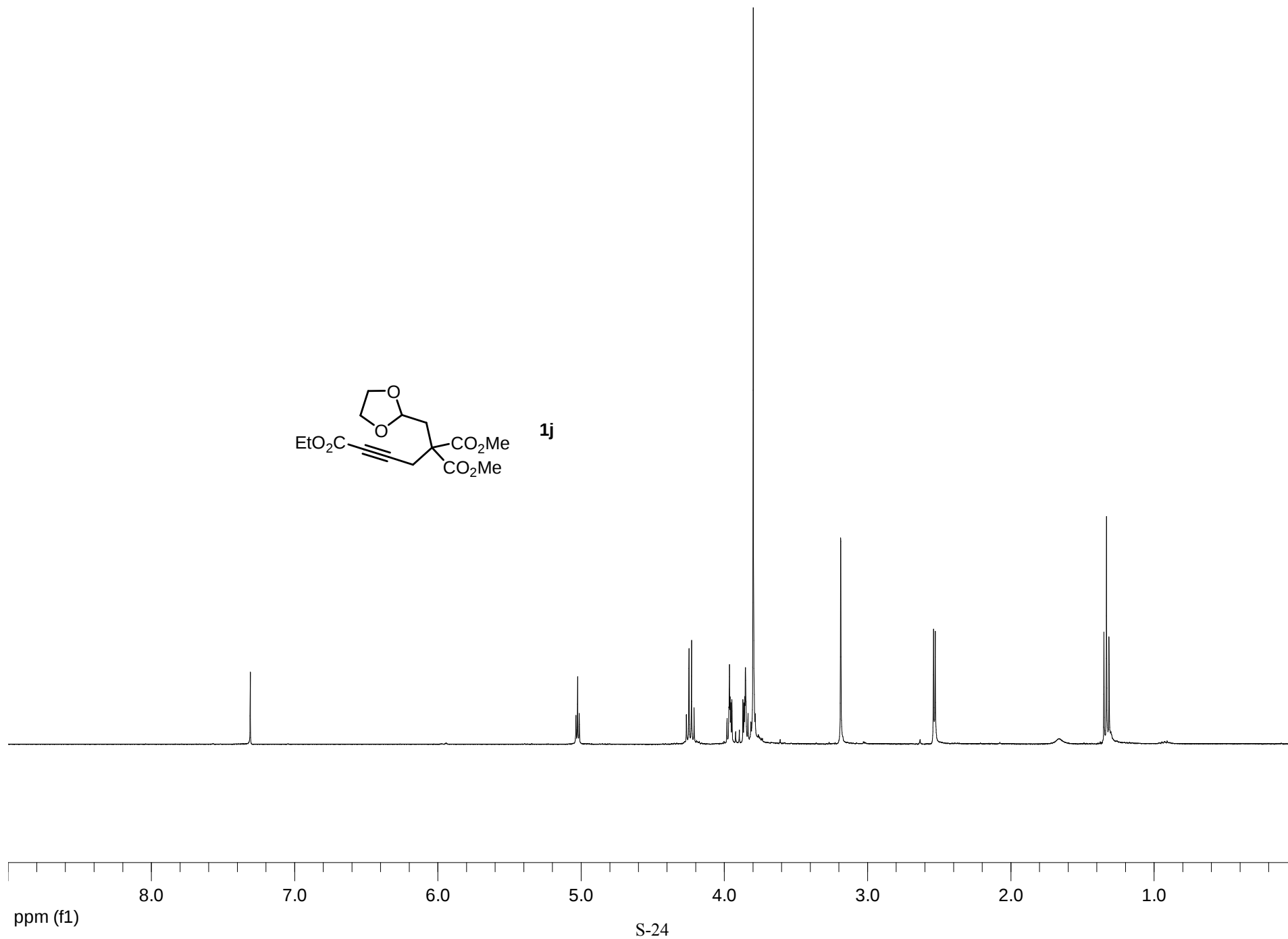
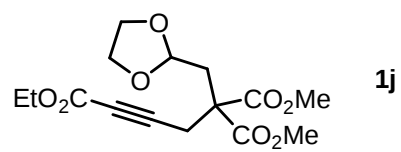


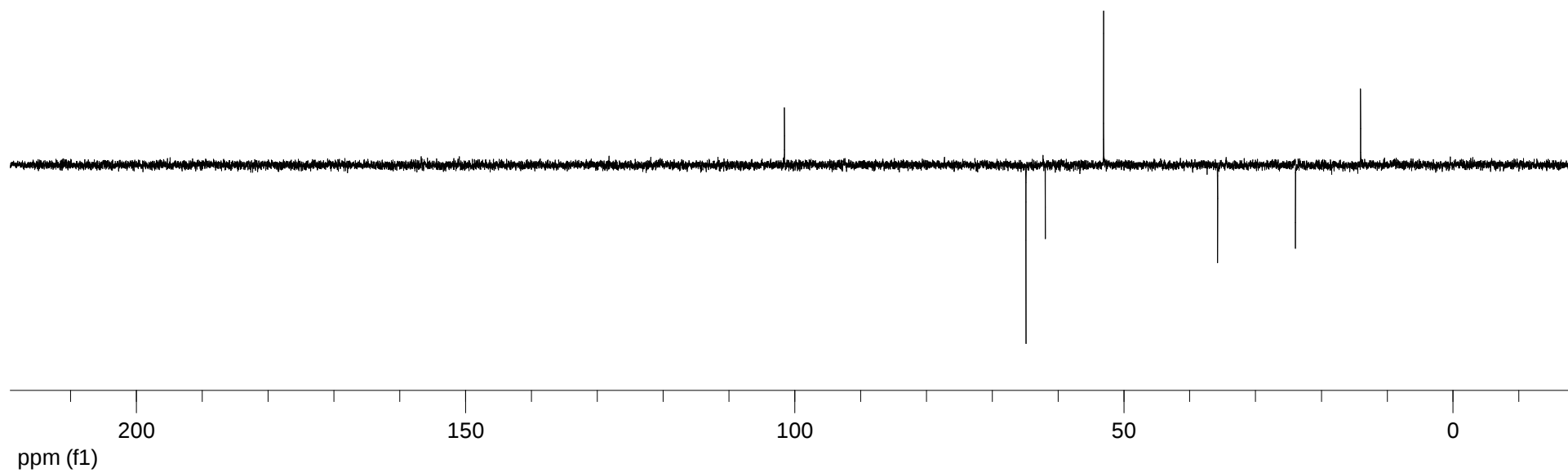
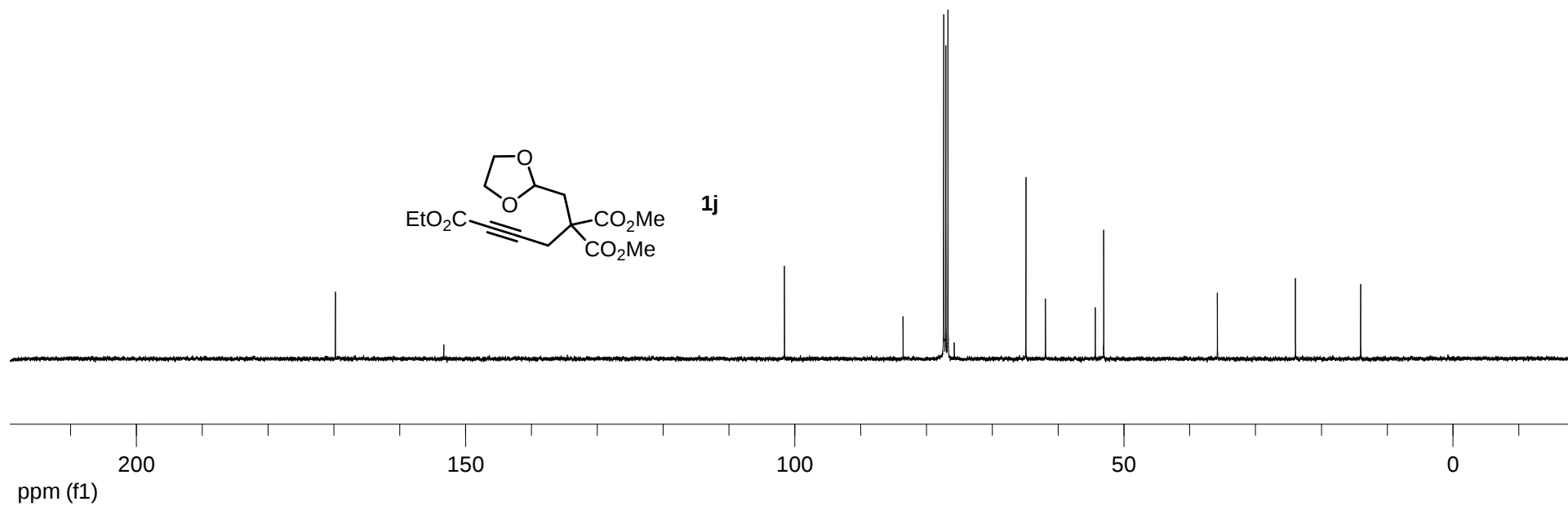
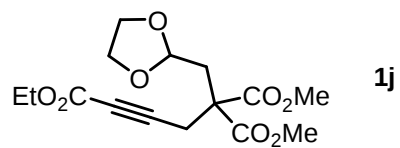


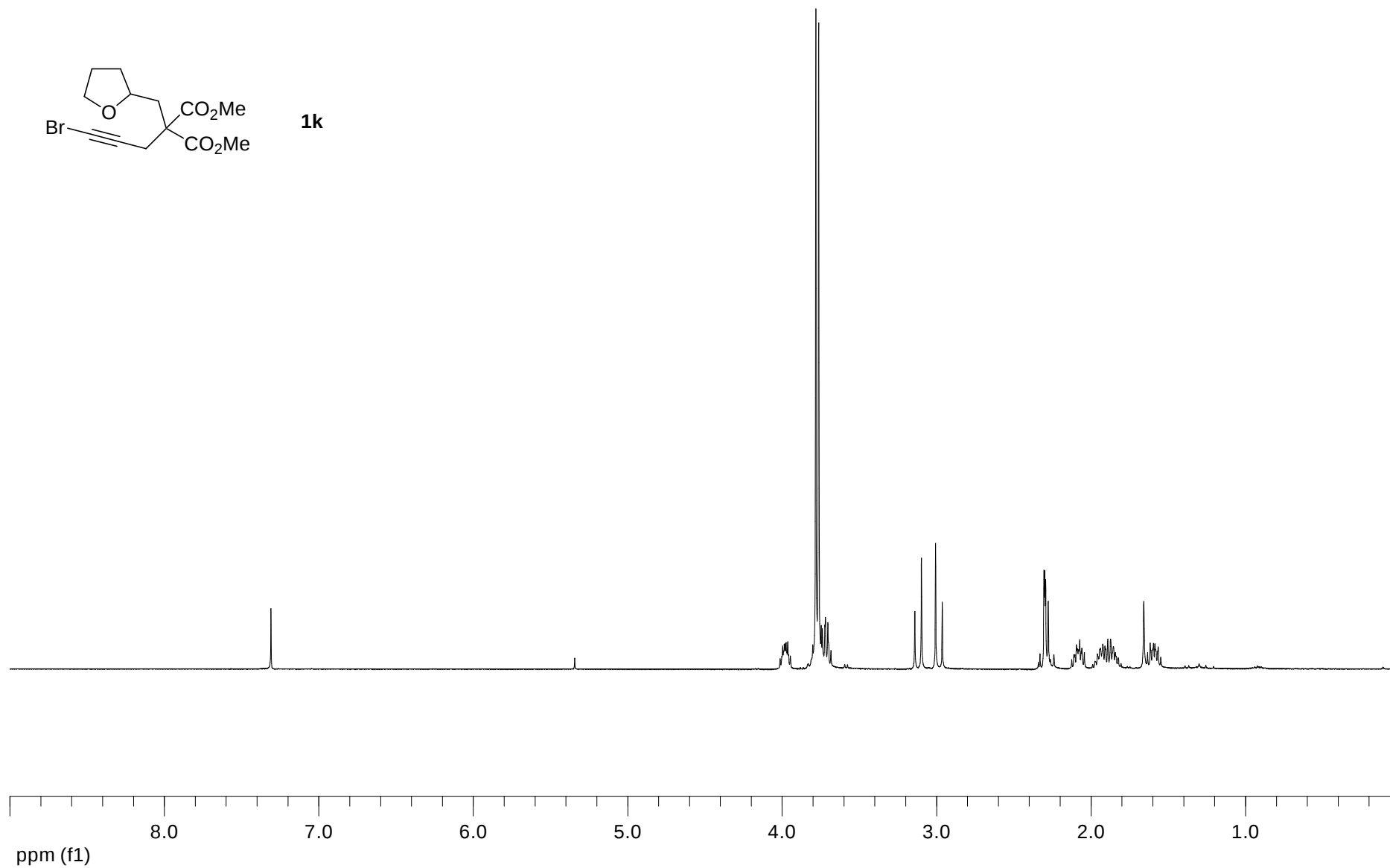
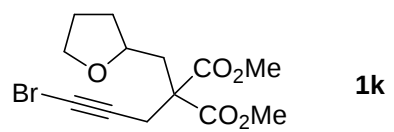


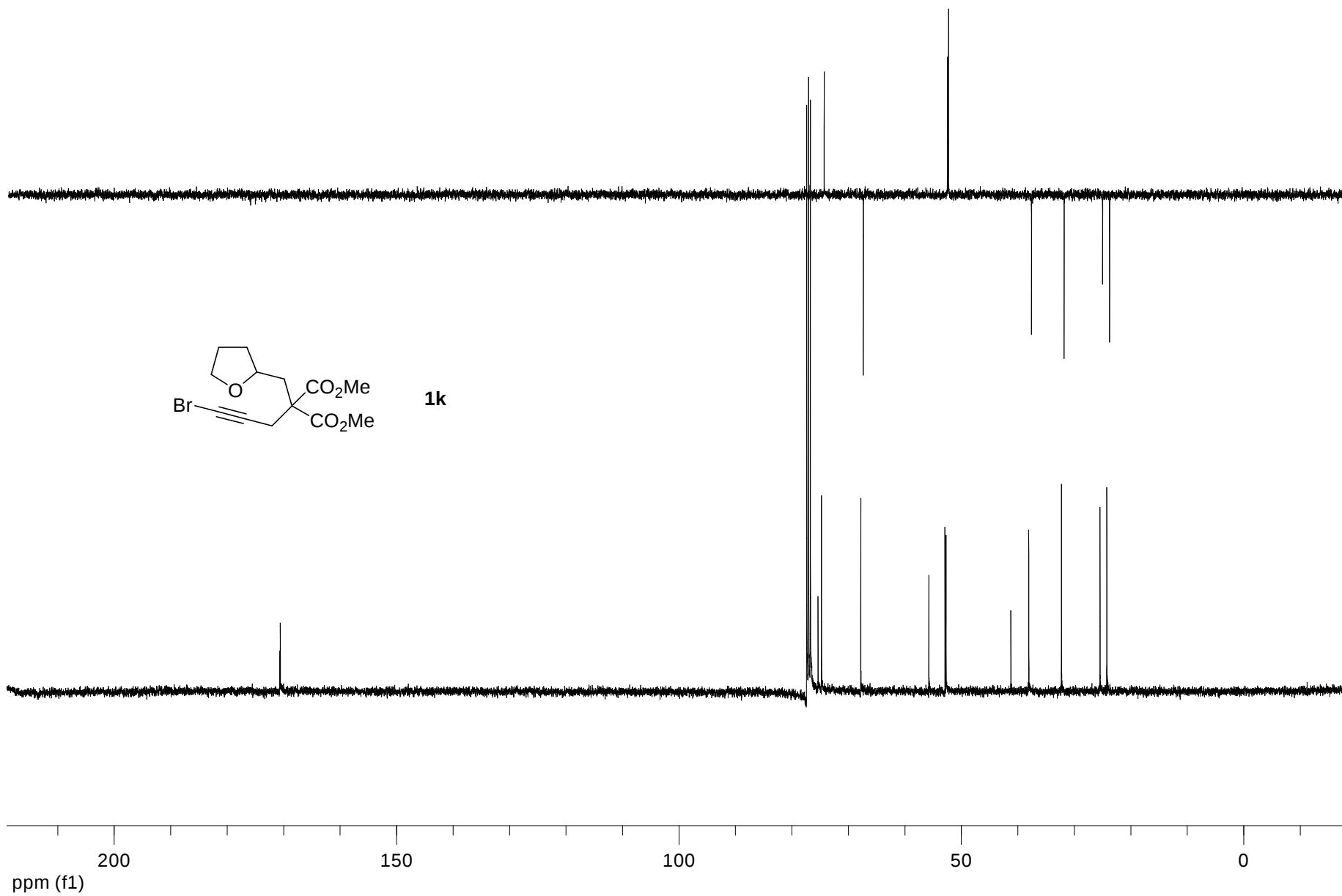
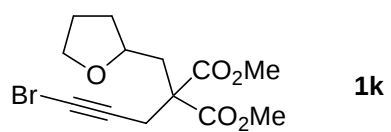


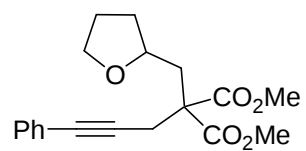




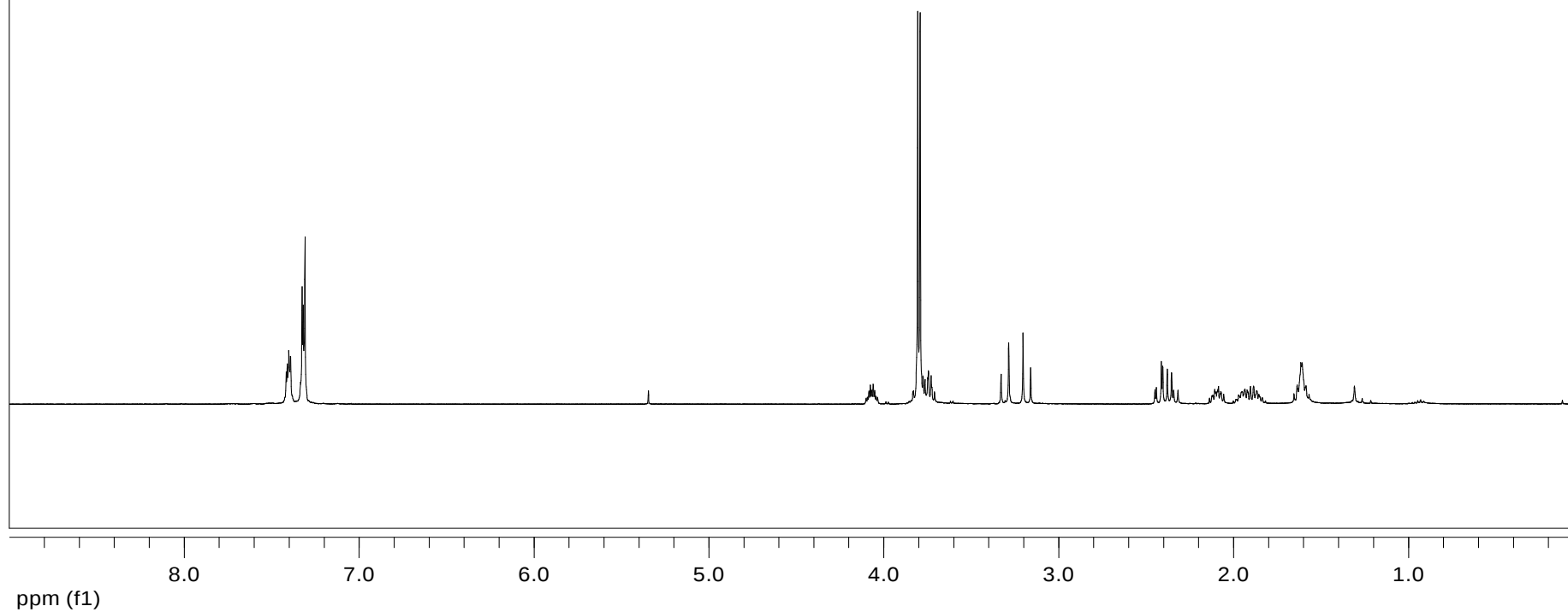


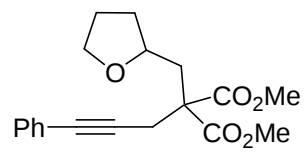




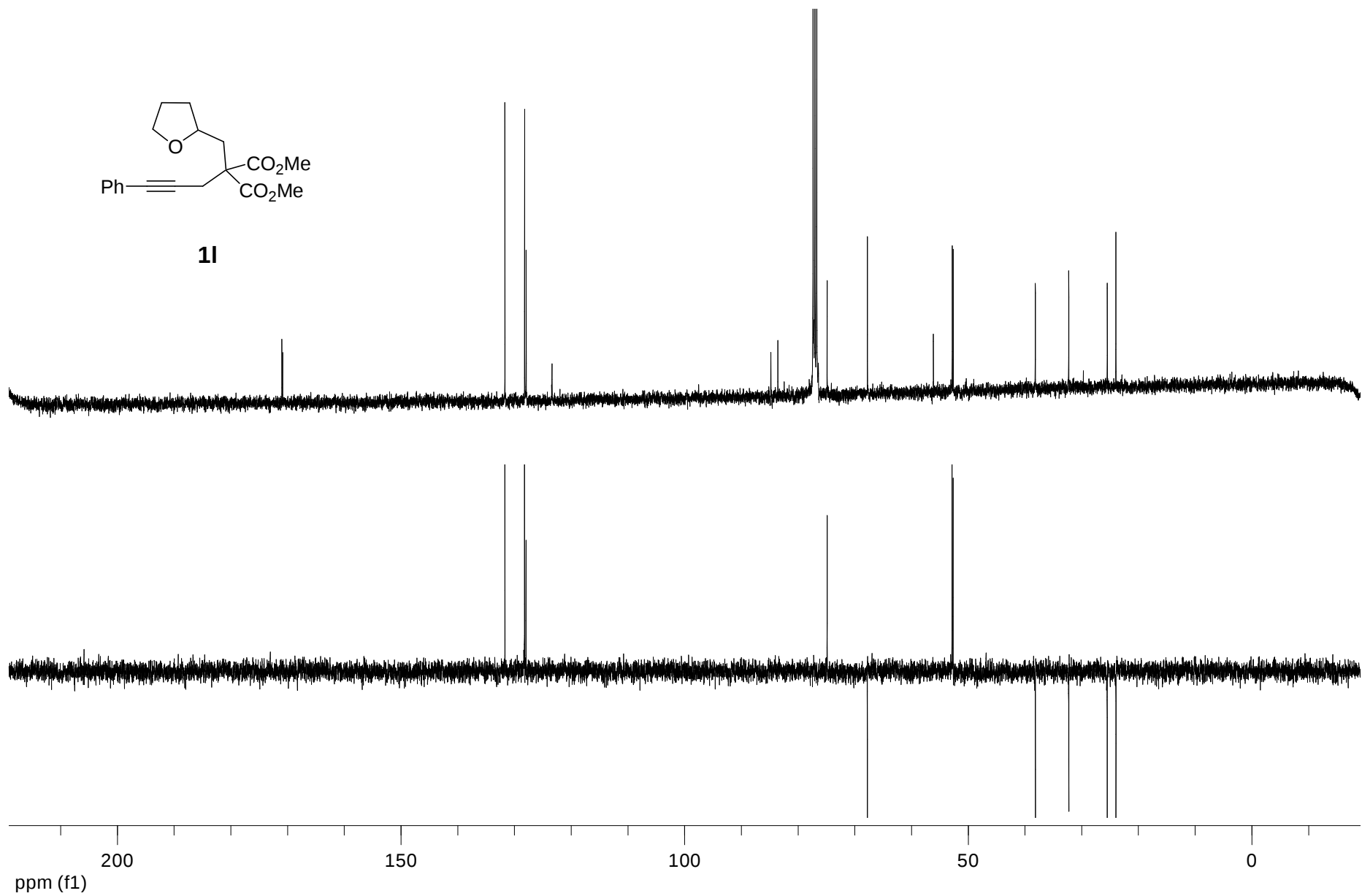


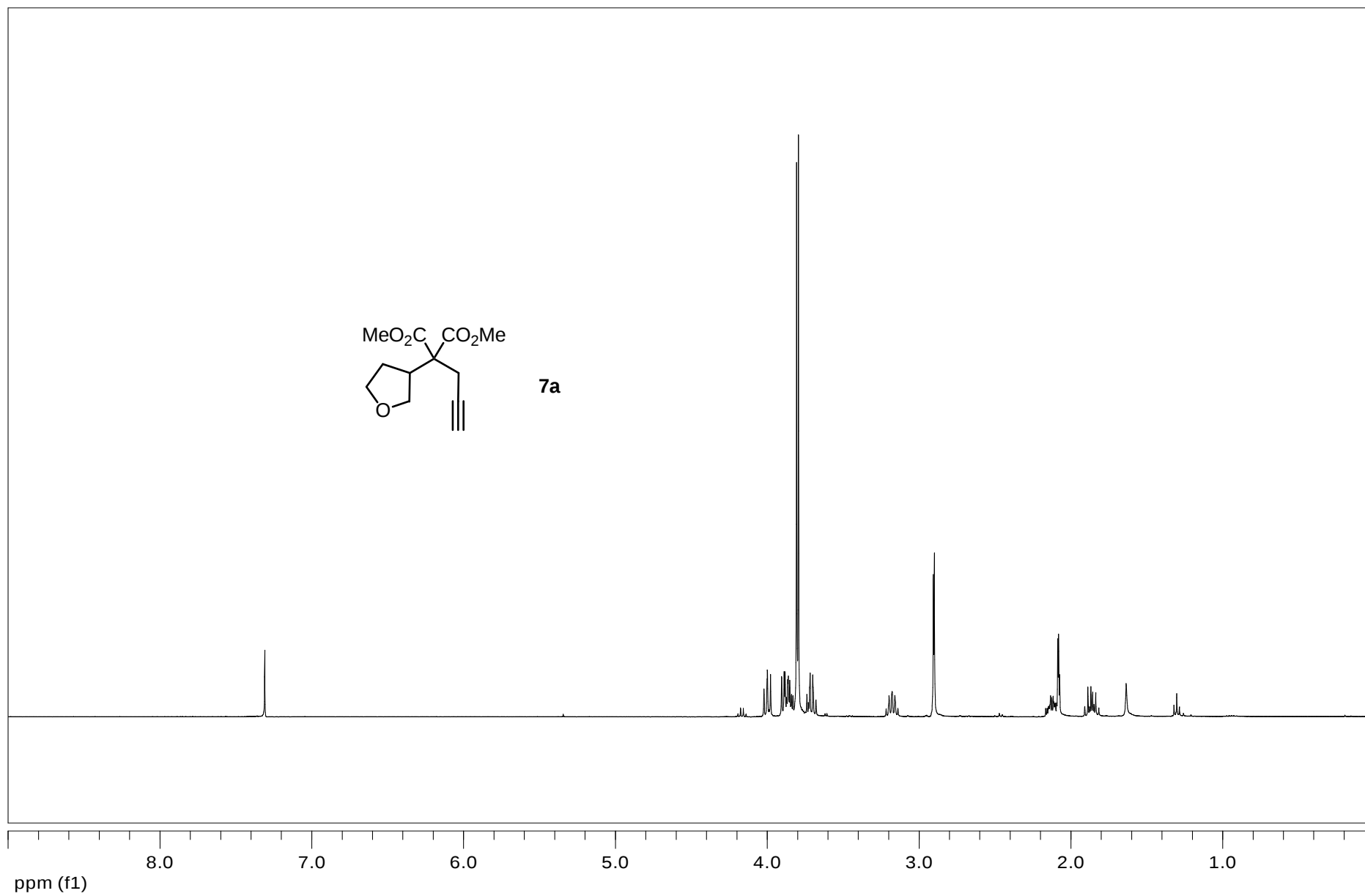
1l

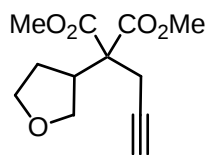




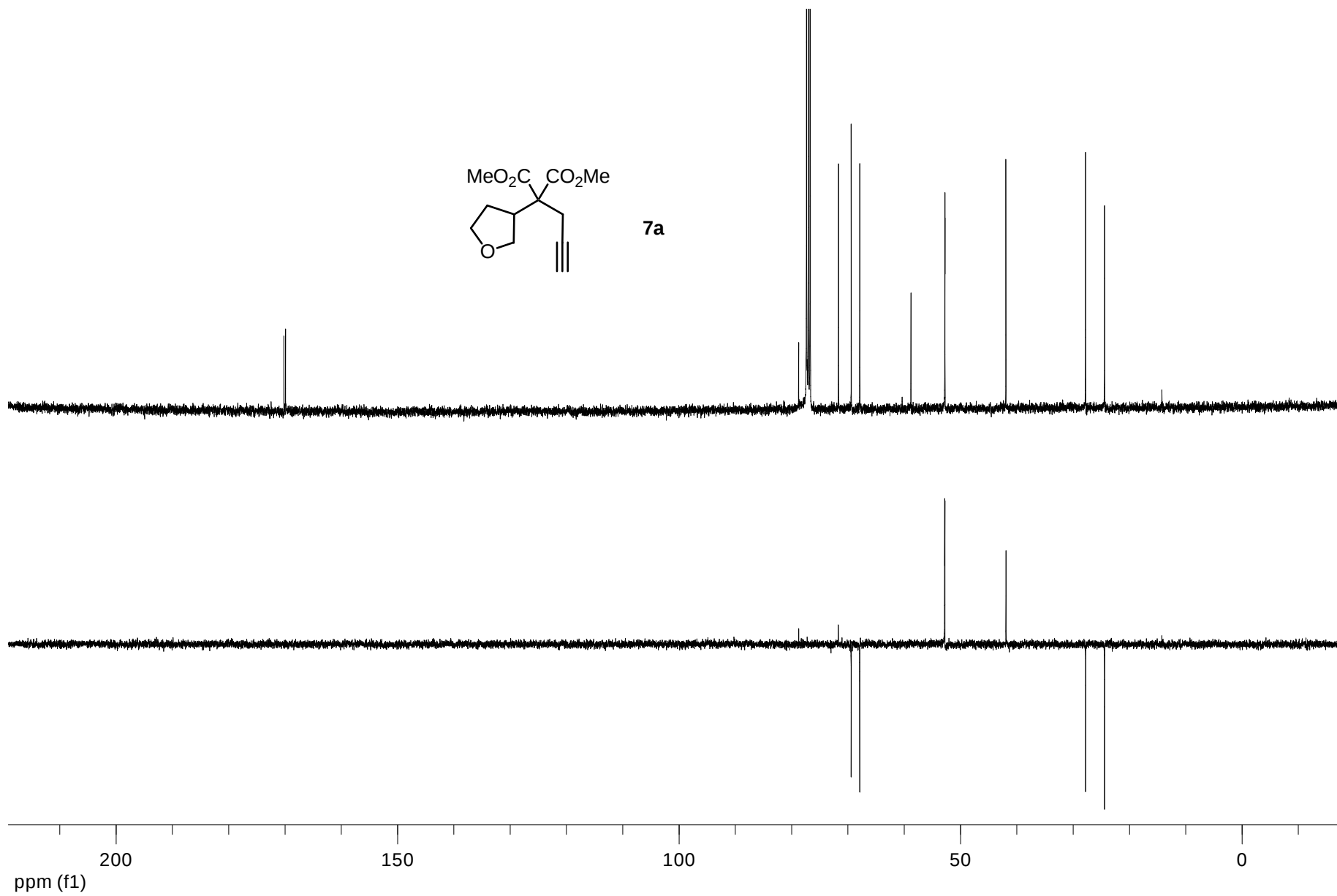
1l

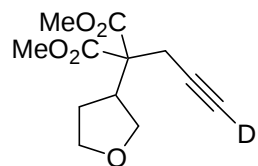




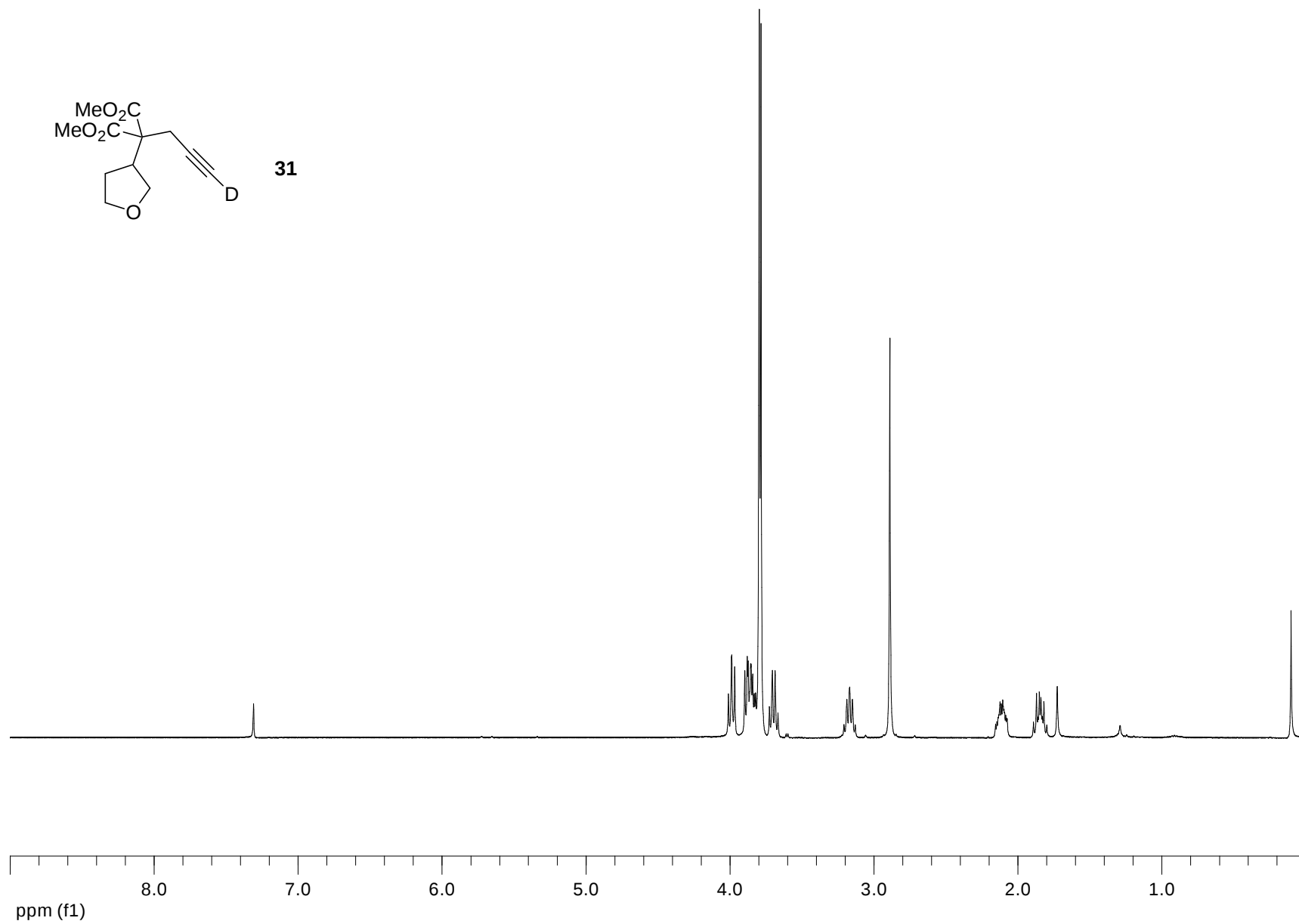


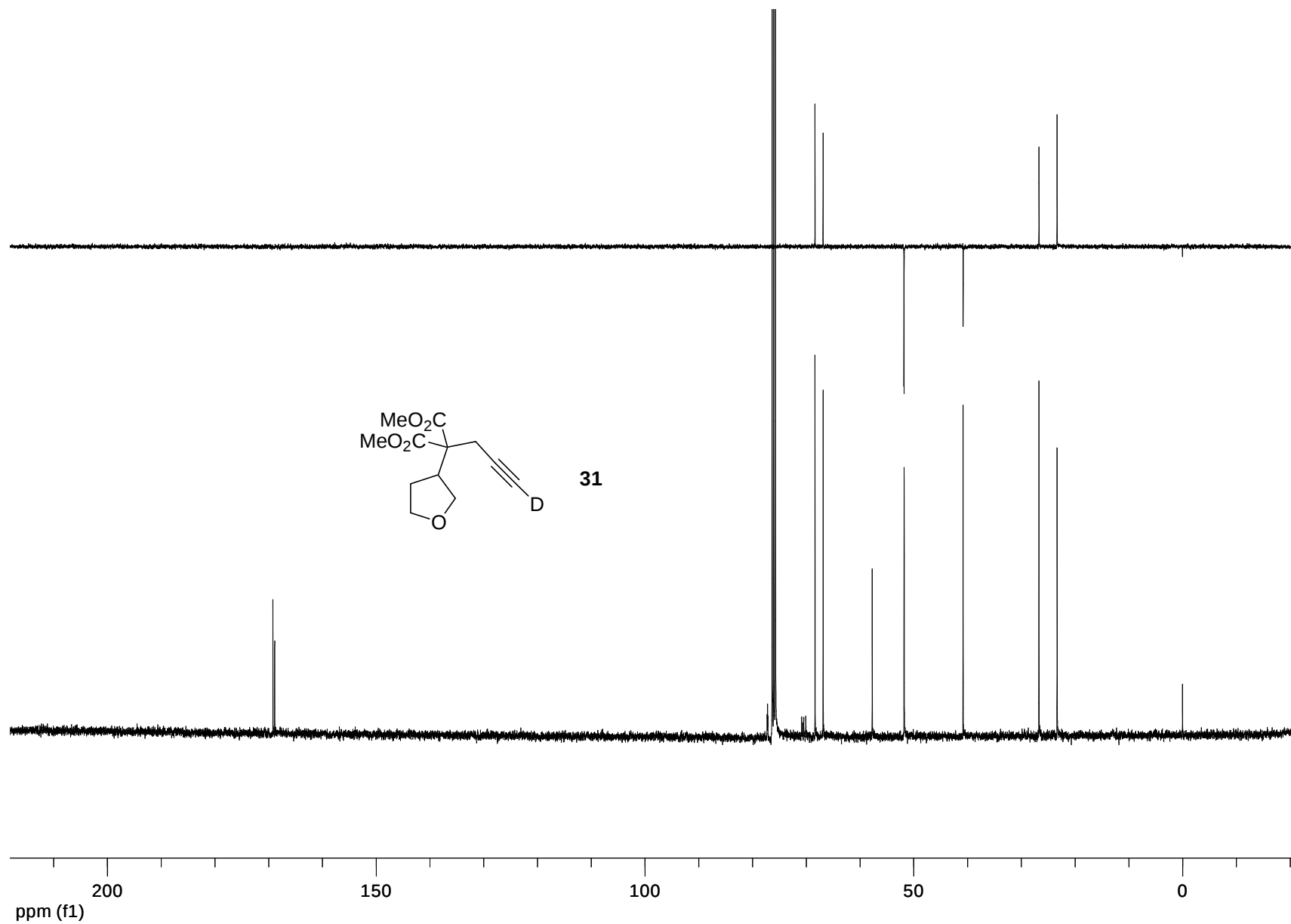
7a

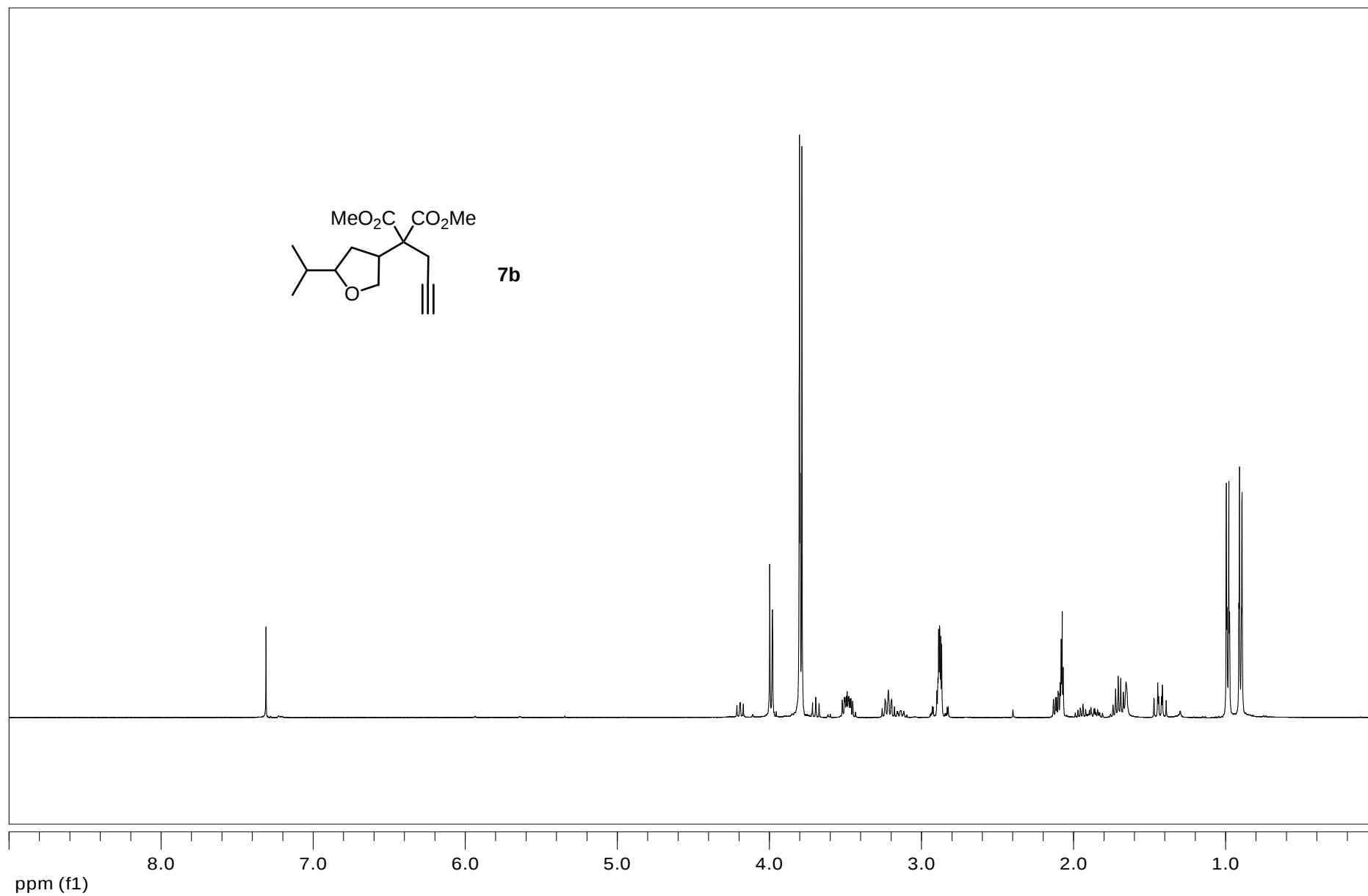


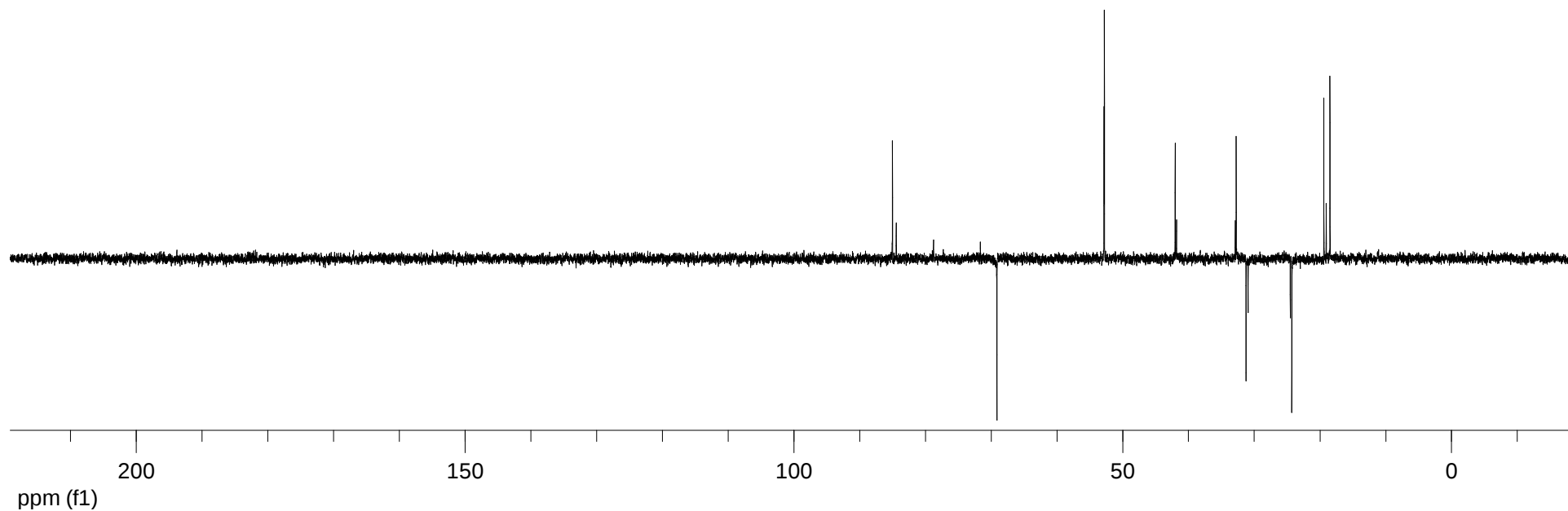
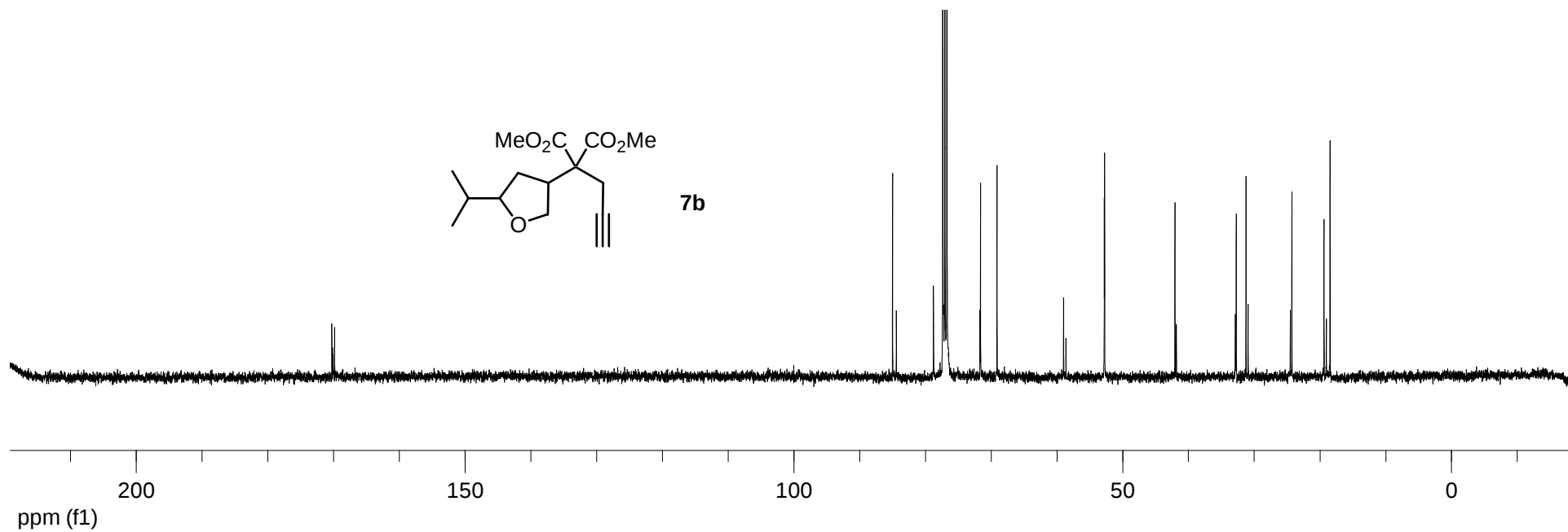
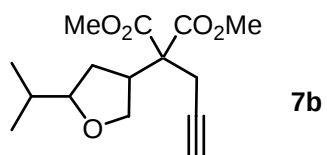


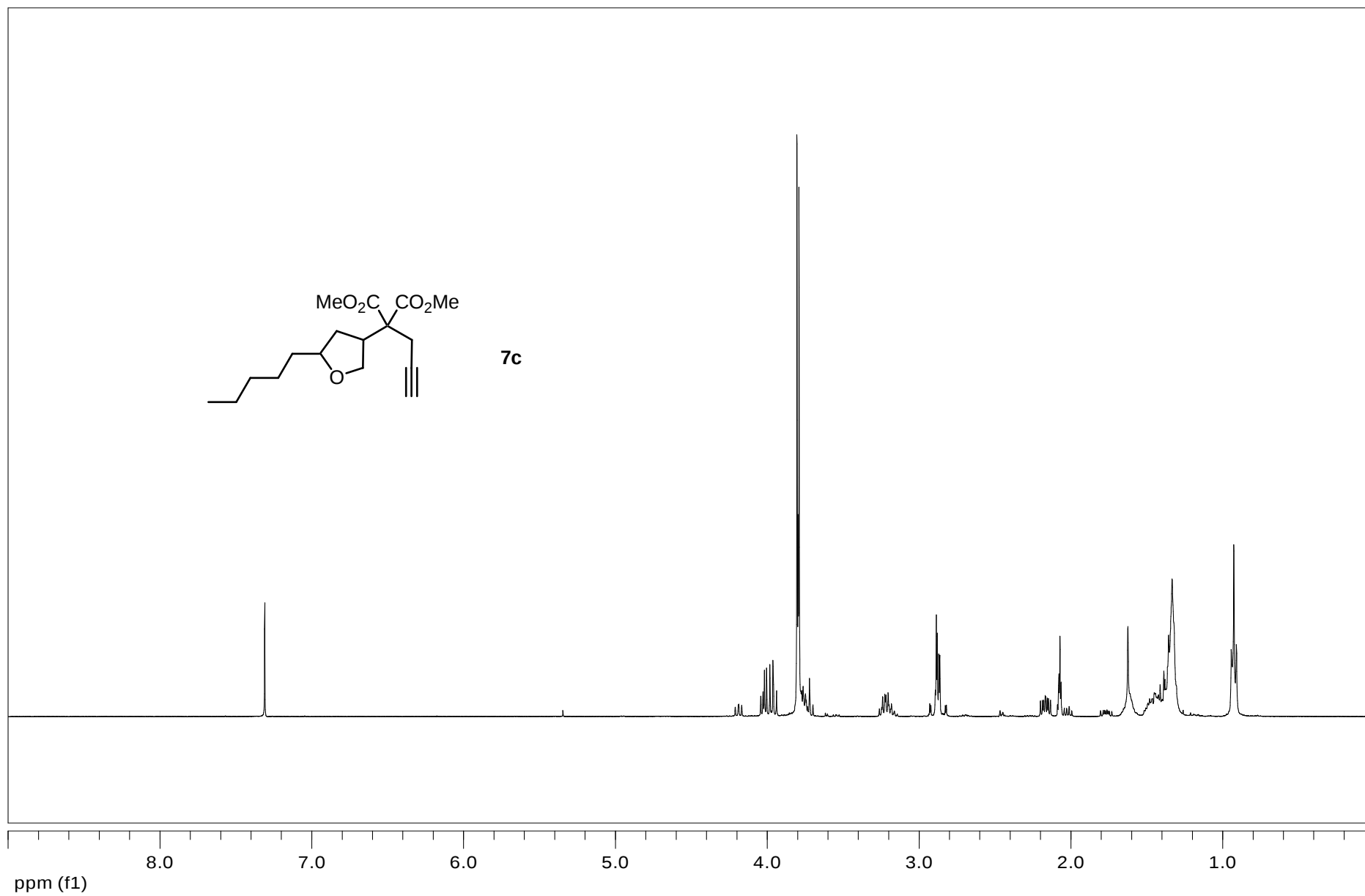
31

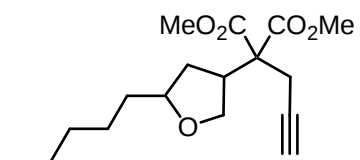




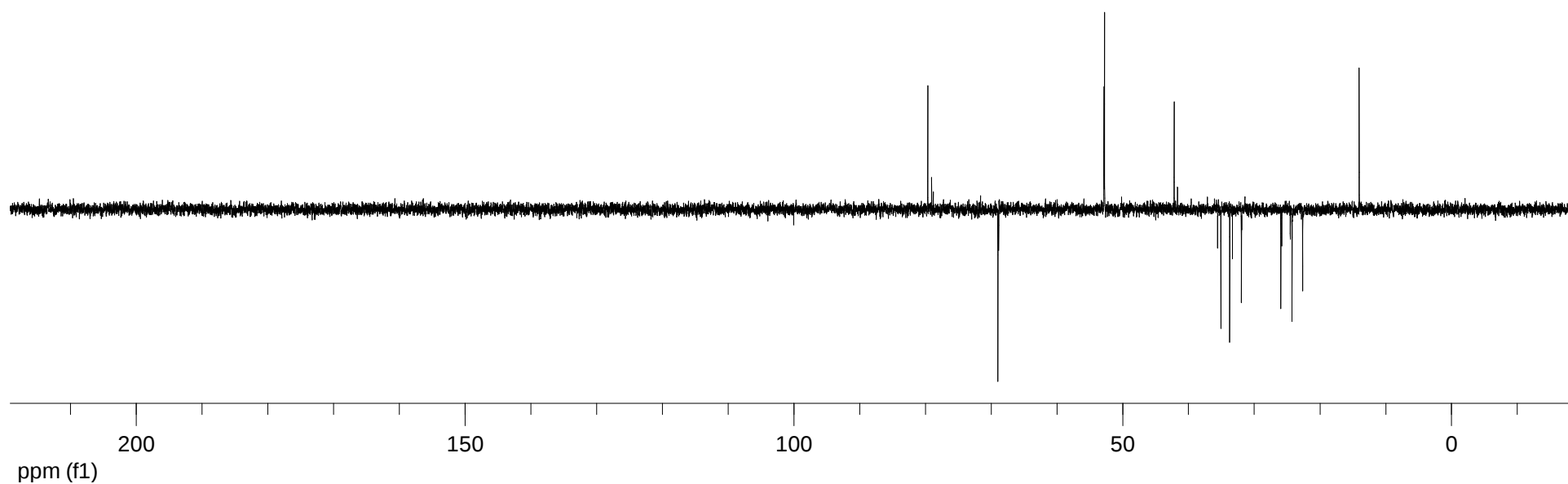
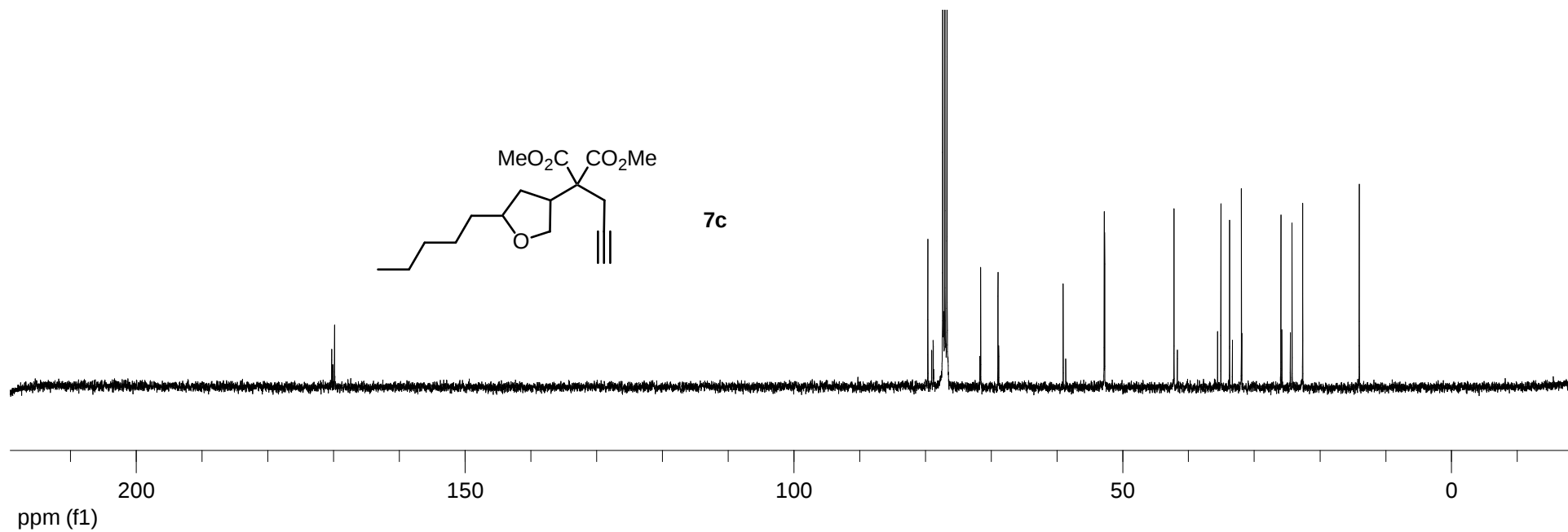


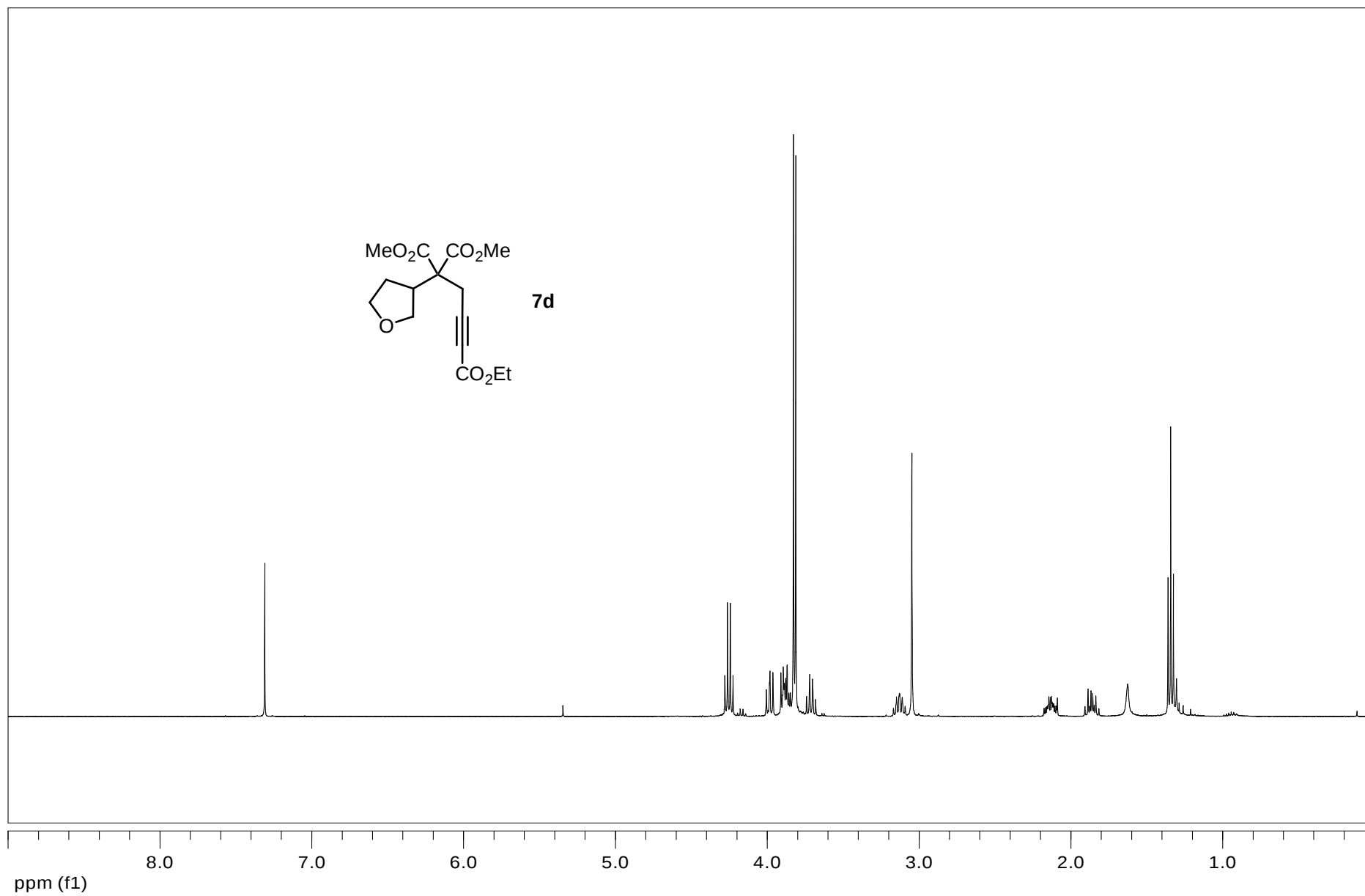


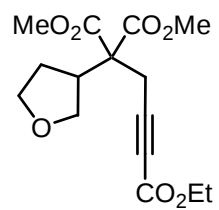




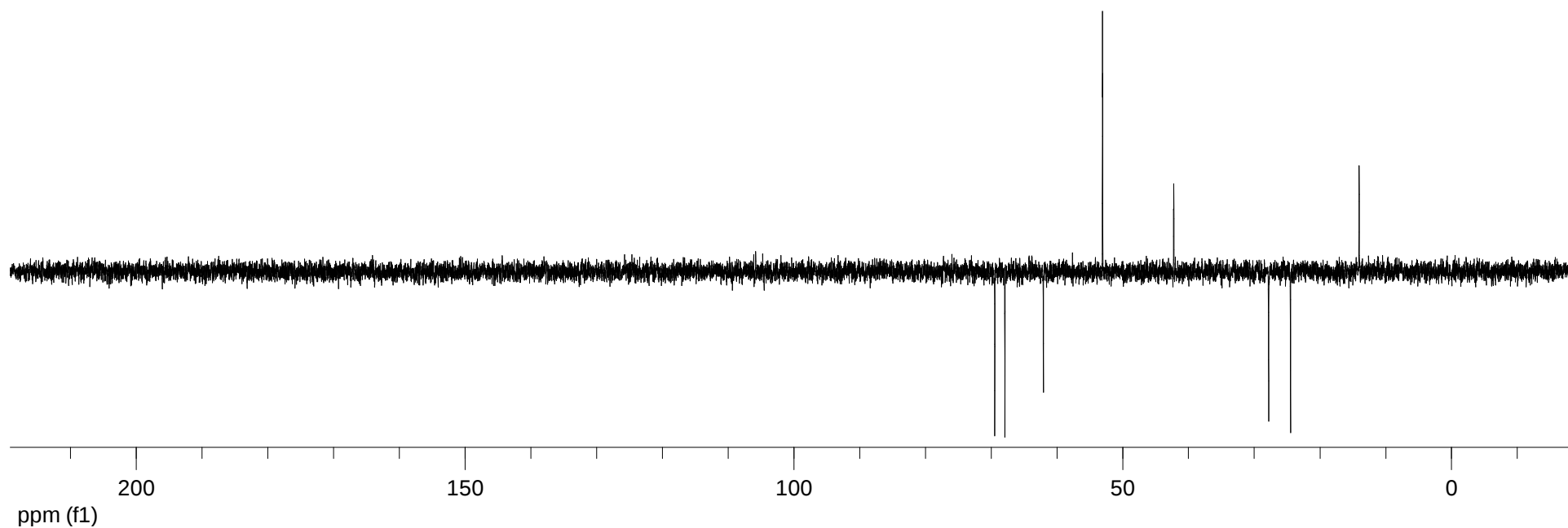
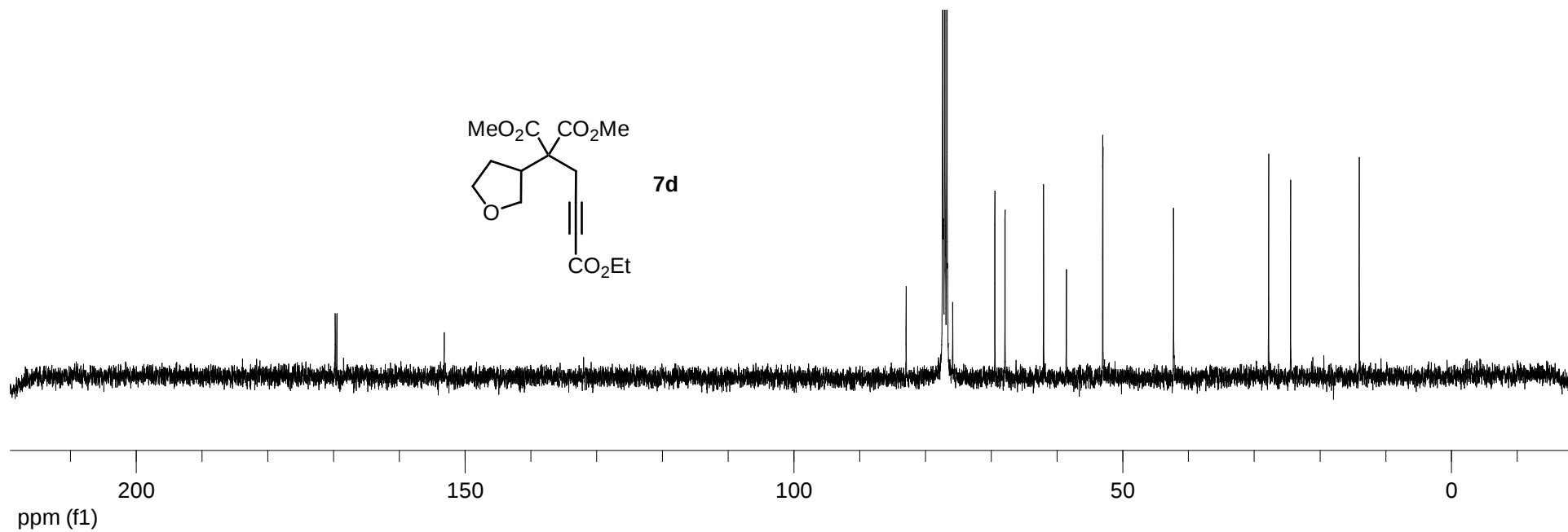
7c

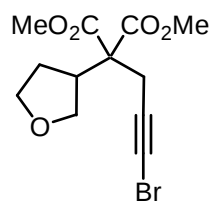




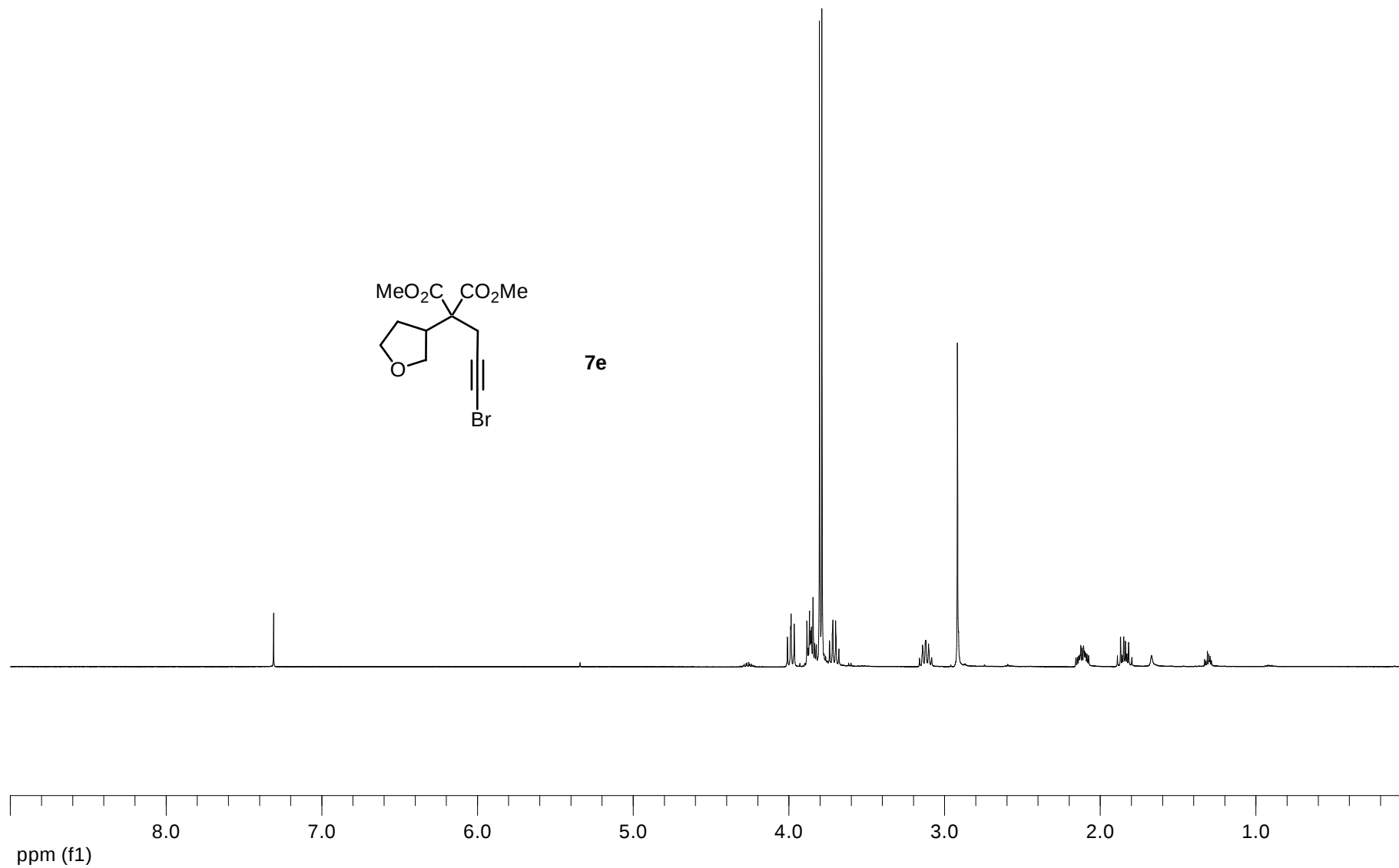


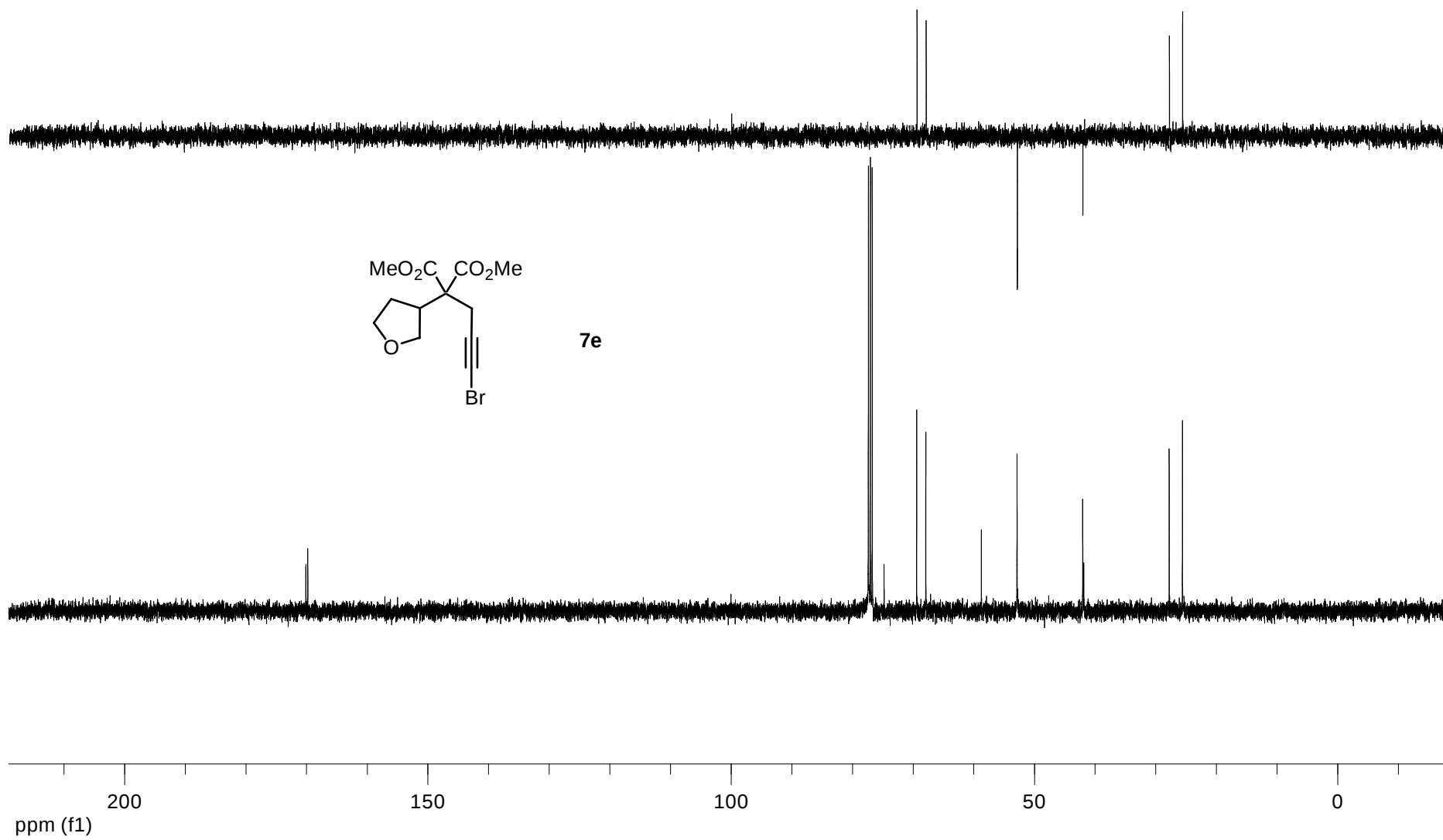
7d

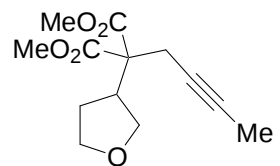




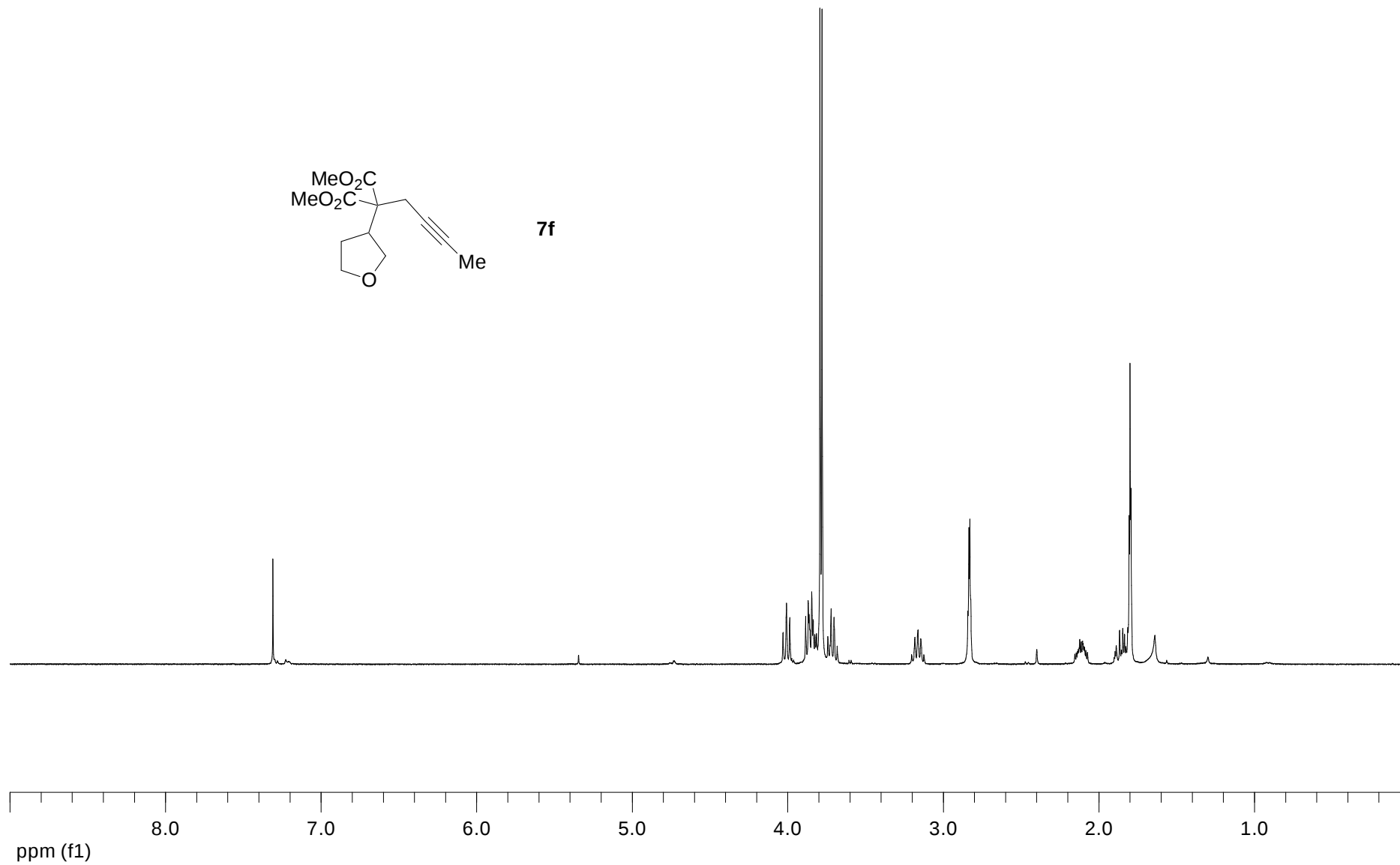
7e

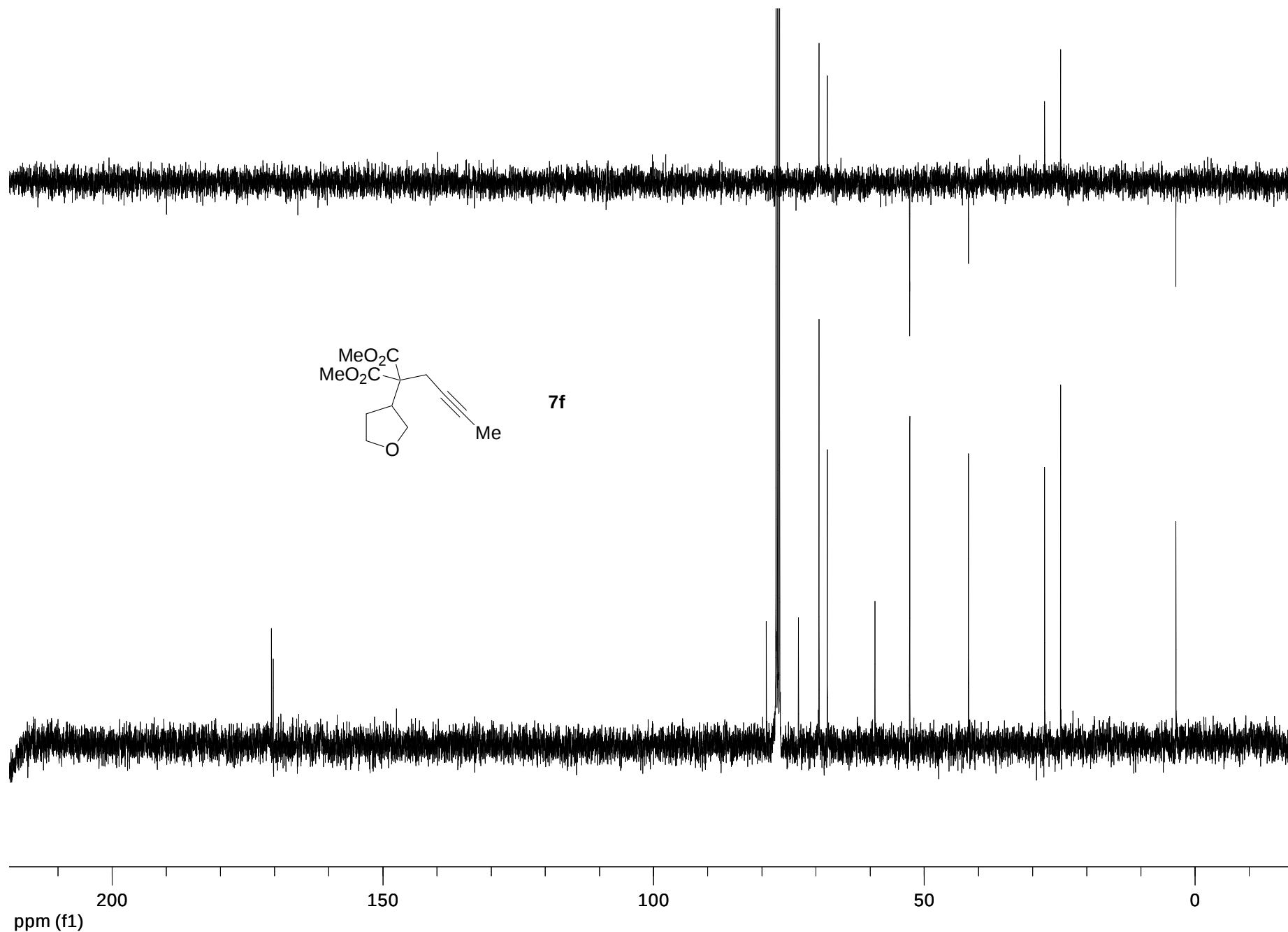


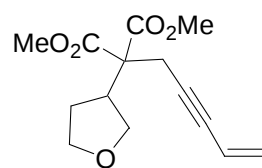




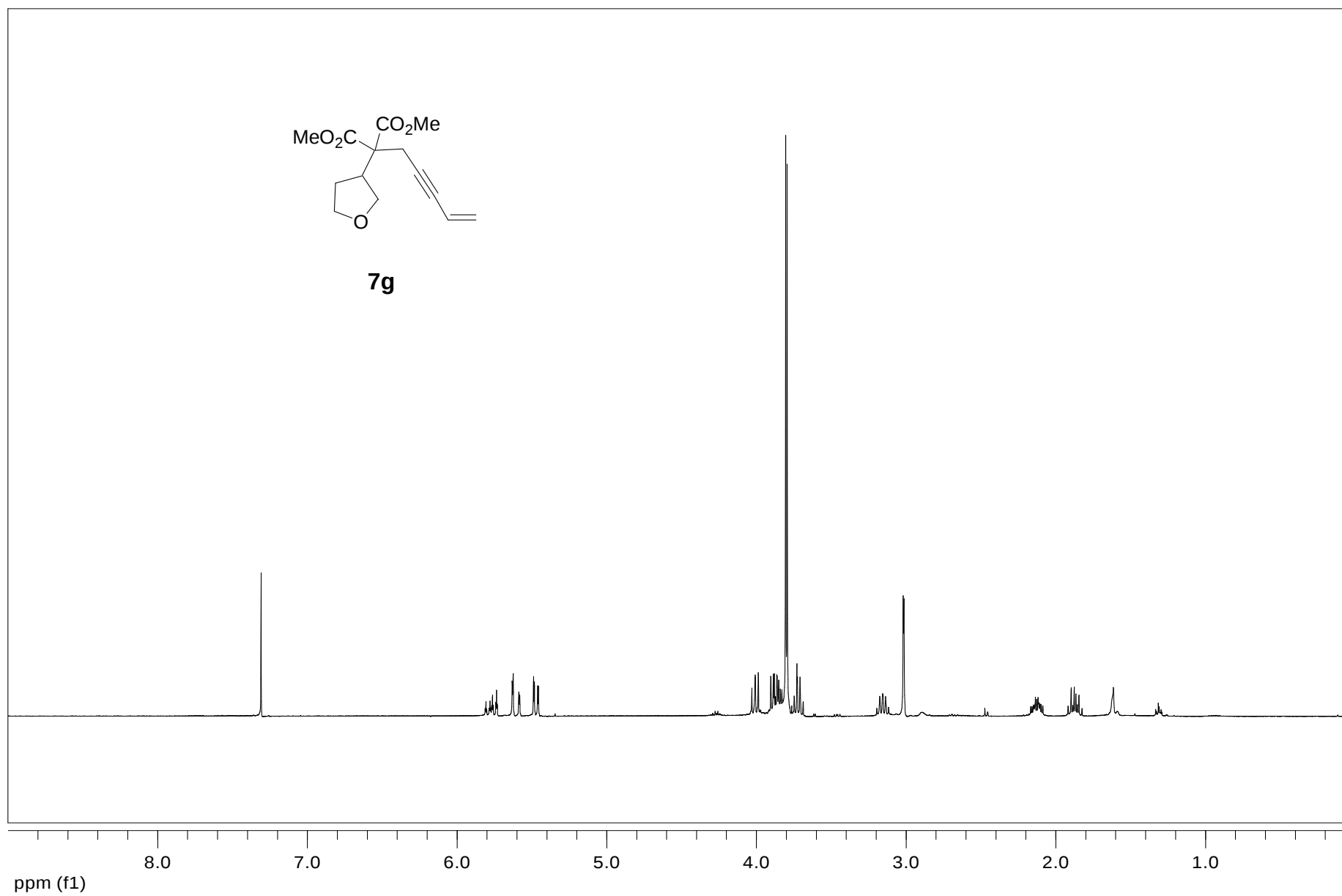
7f

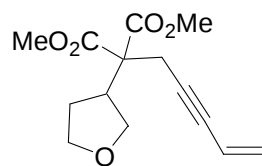




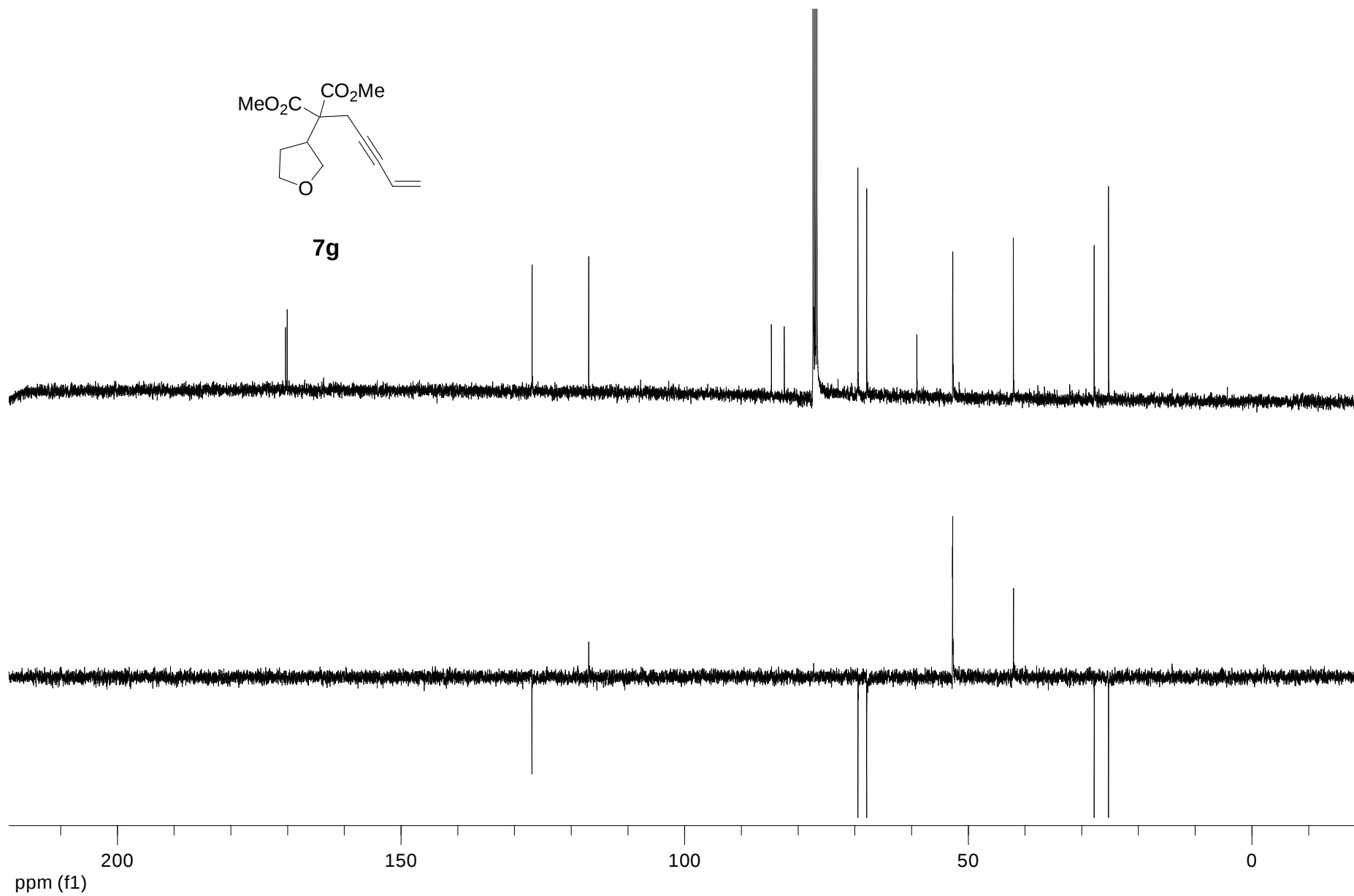


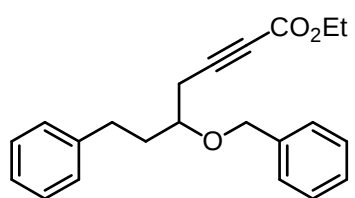
7g



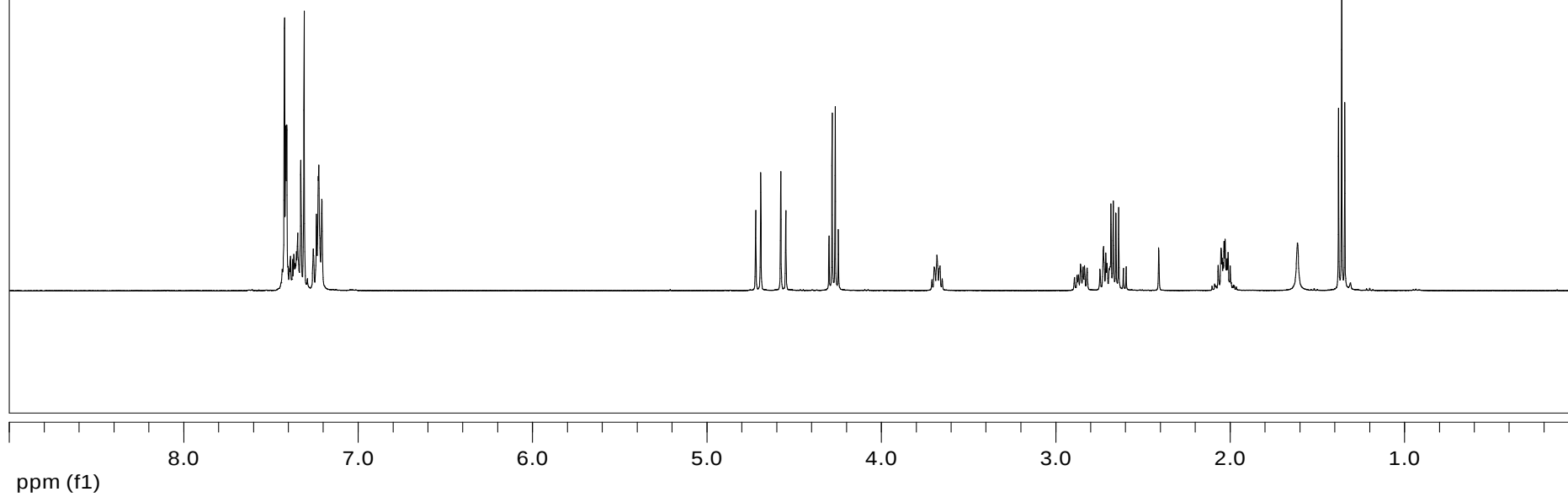


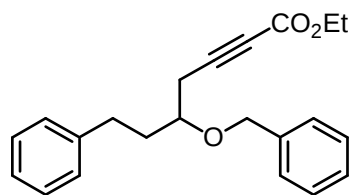
7g



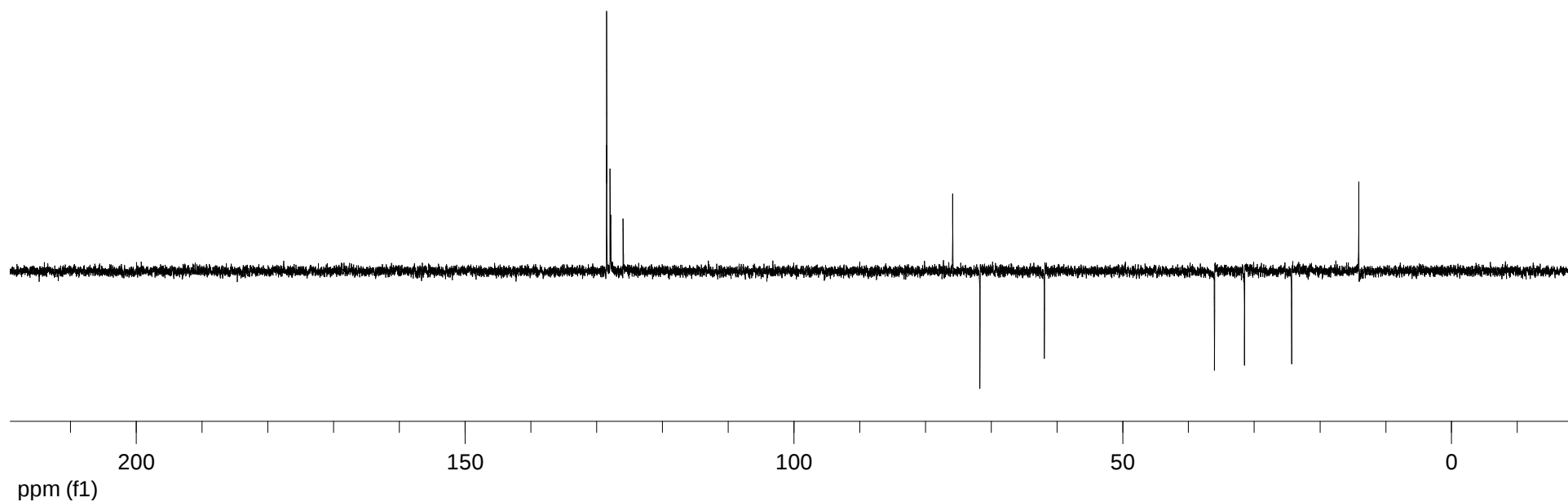
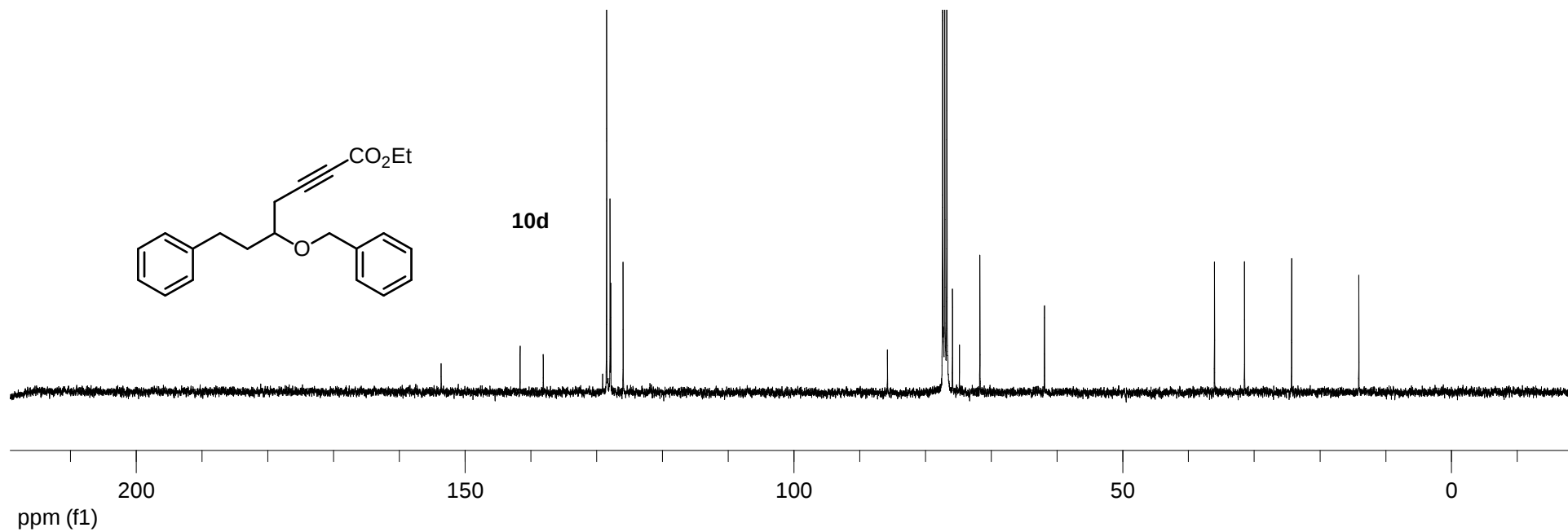


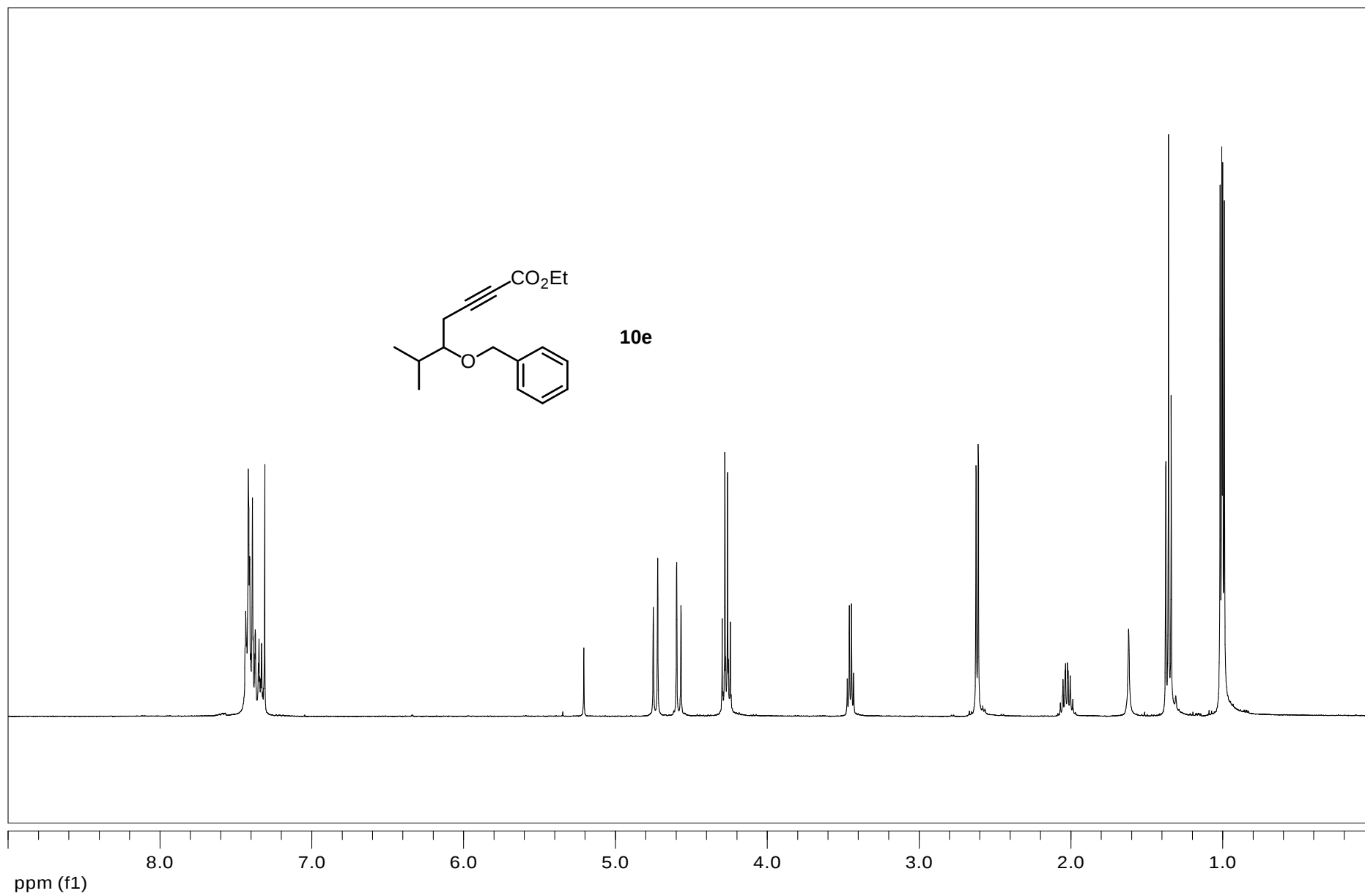
10d

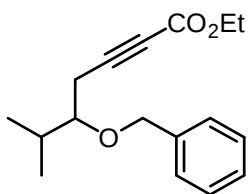




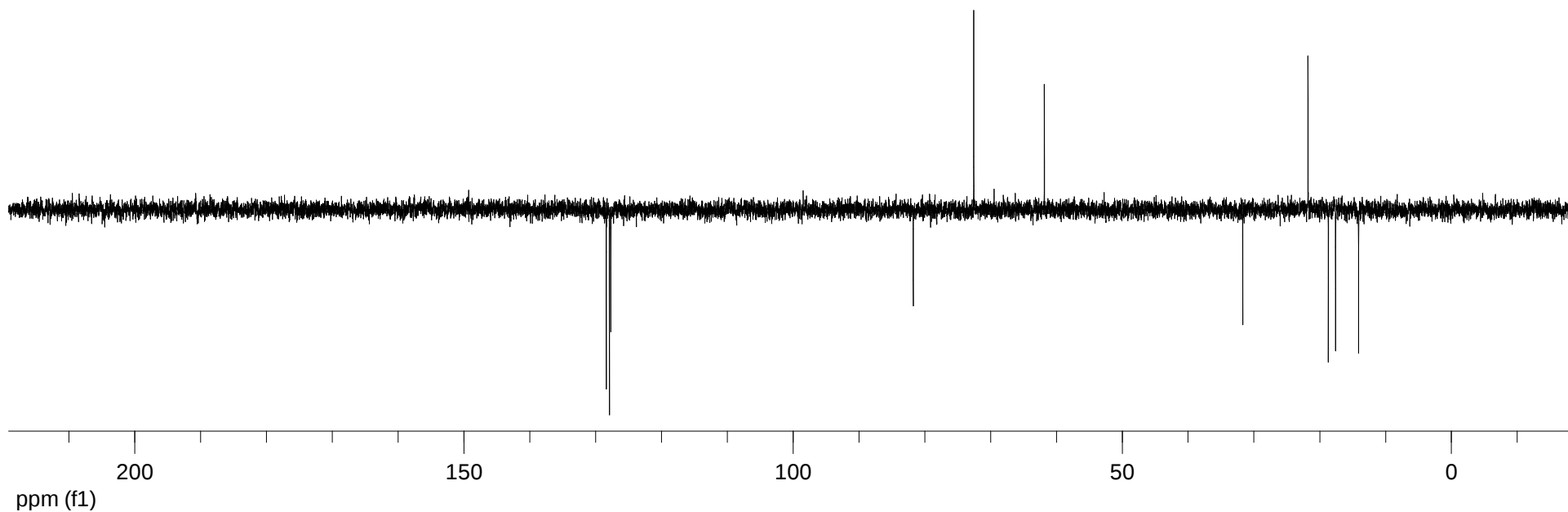
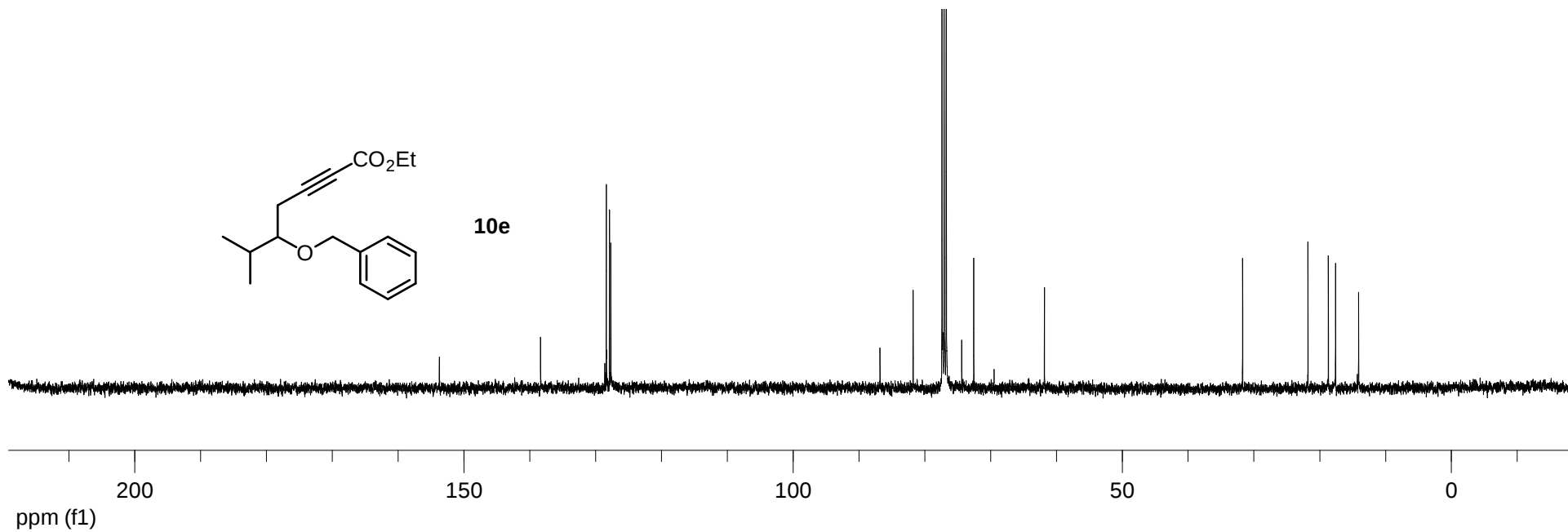
10d

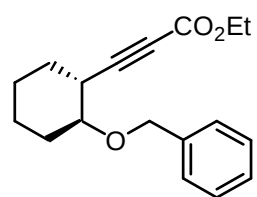






10e





10f

