Supplementary Information

Palladacycle Catalyzed Carbonylative Suzuki-Miyaura Coupling with Generation of High Turnover Numbers and Turnover Frequencies

Prashant Gautam and Bhalchandra M. Bhanage*

Department of Chemistry, Institute of Chemical Technology,

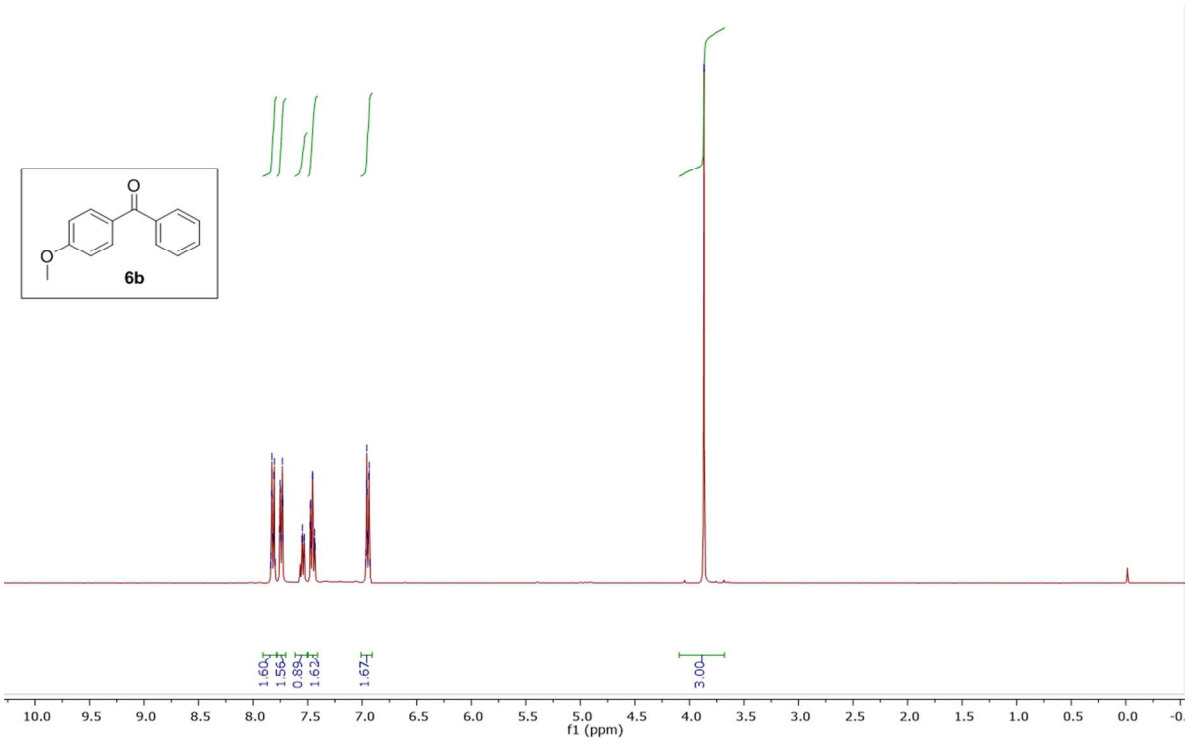
N. Parekh Marg, Matunga, Mumbai–400019. India.

Tel.: +91-22-33612601; fax: +91-22-33611020

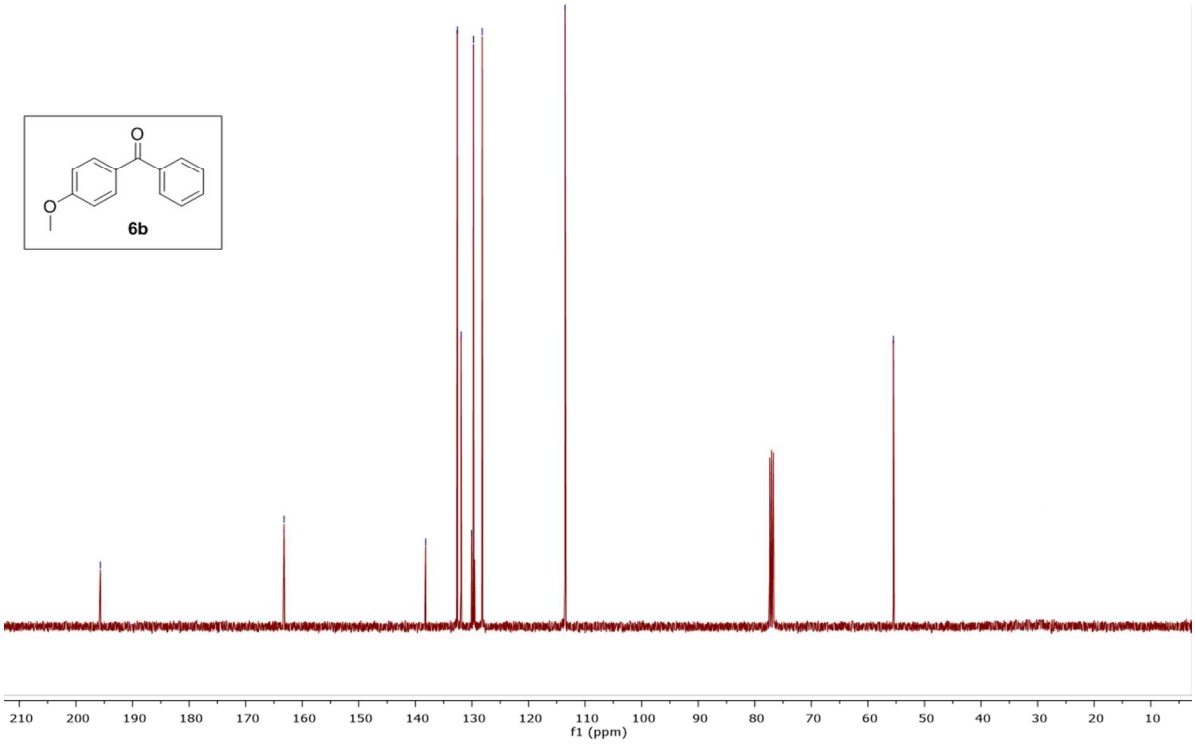
E-mail: bm.bhanage@gmail.com, bm.bhanage@ictmumbai.edu.in

I Copies of ^{1}H and ^{13}C NMR spectra

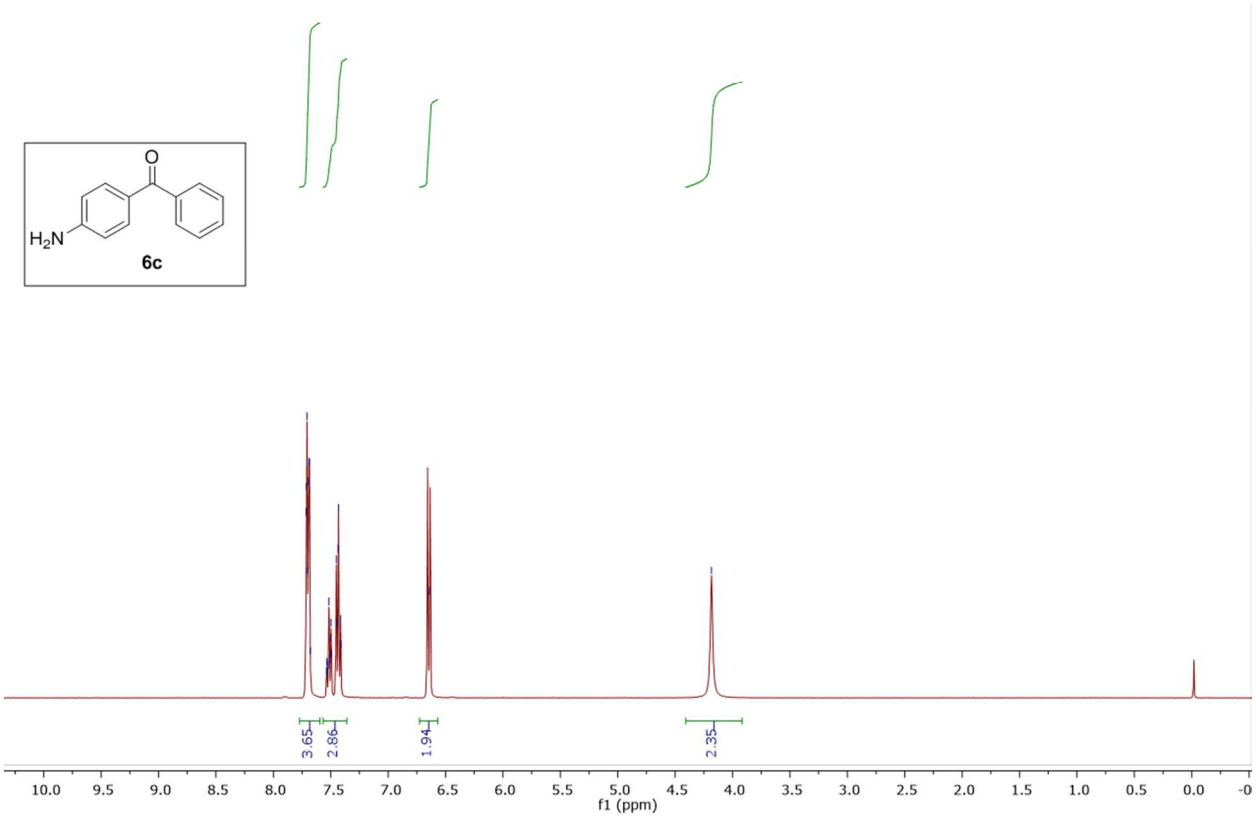
4-methoxybenzophenone (6b) (^{1}H NMR)



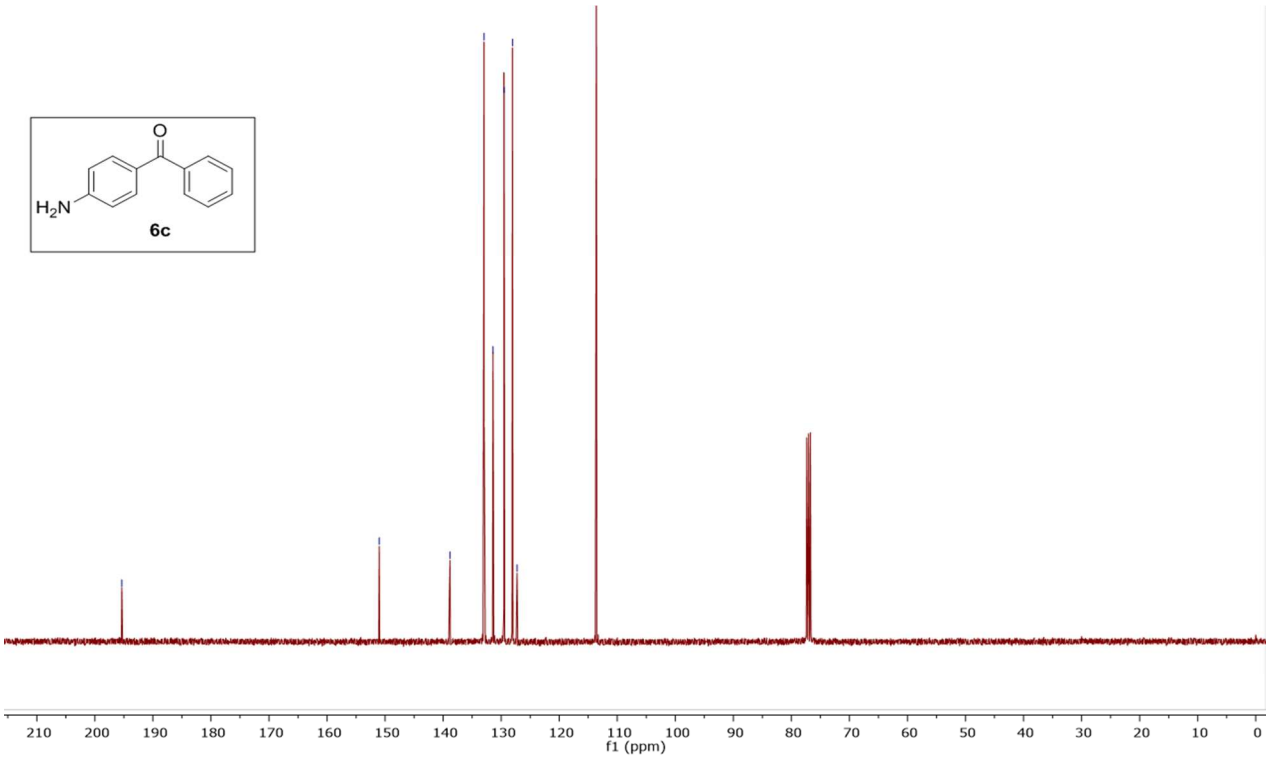
4-methoxybenzophenone (6b) (^{13}CNMR)



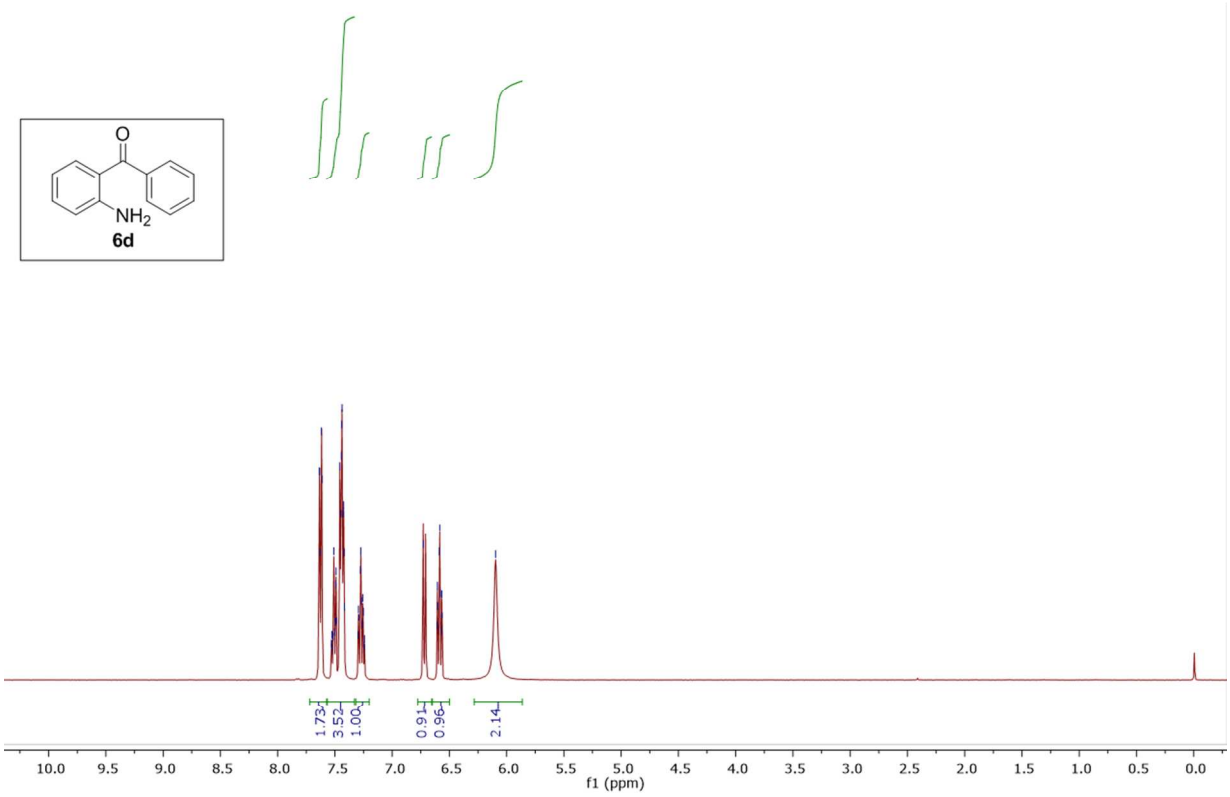
4-aminobenzophenone (6c) (^{1}H NMR)



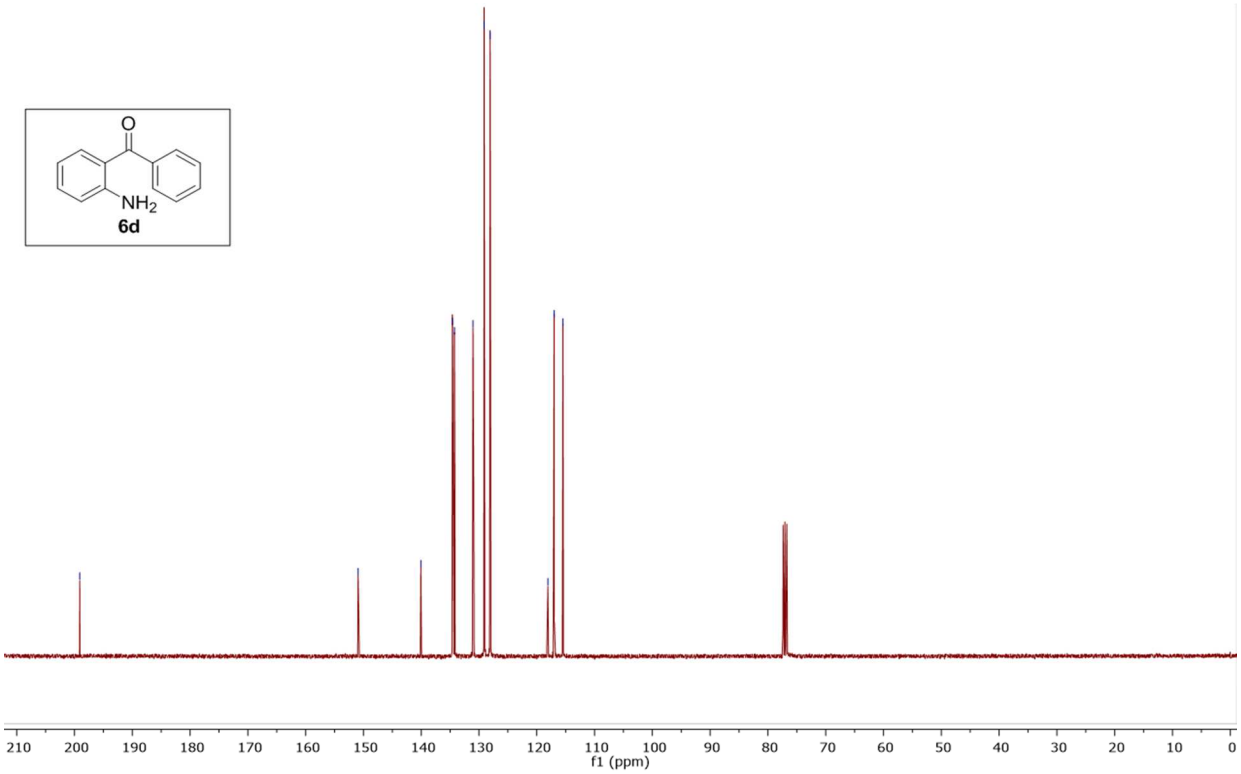
4-aminobenzophenone (6c) (^{13}C NMR)



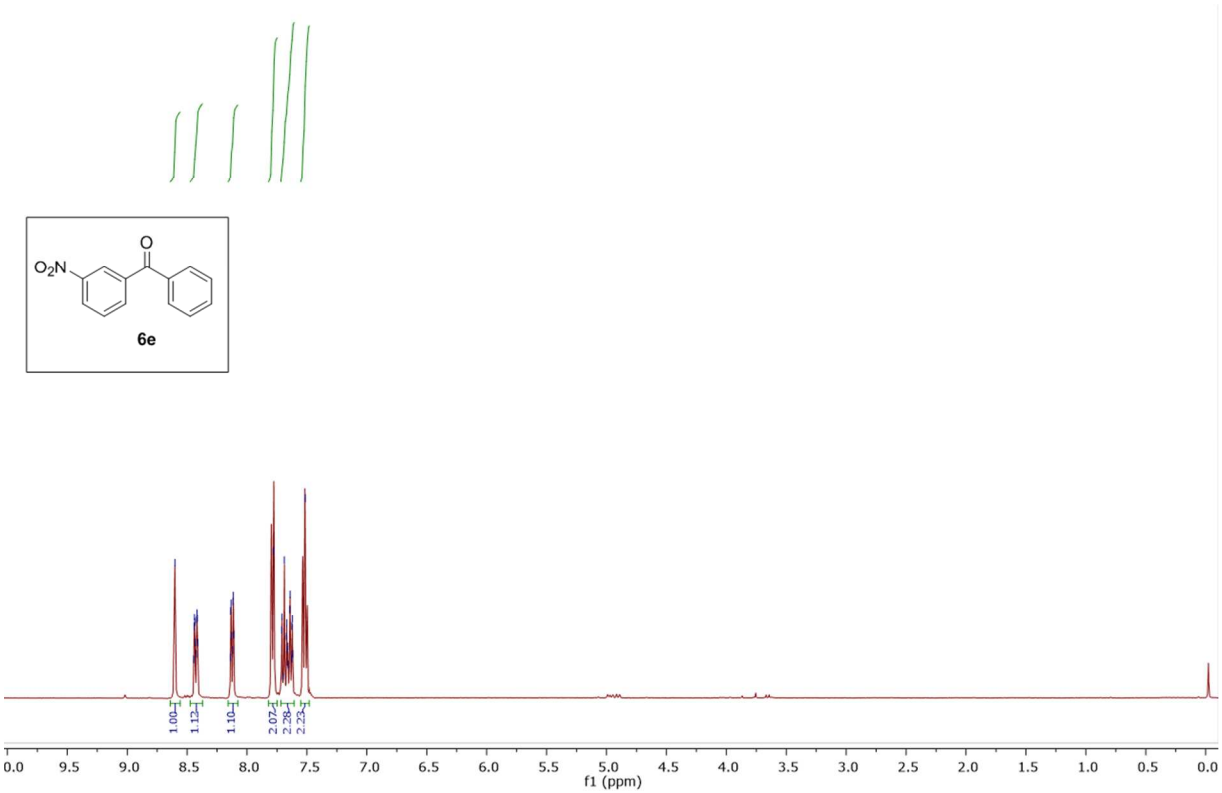
2-aminobenzophenone (6d) (^{1}H NMR)



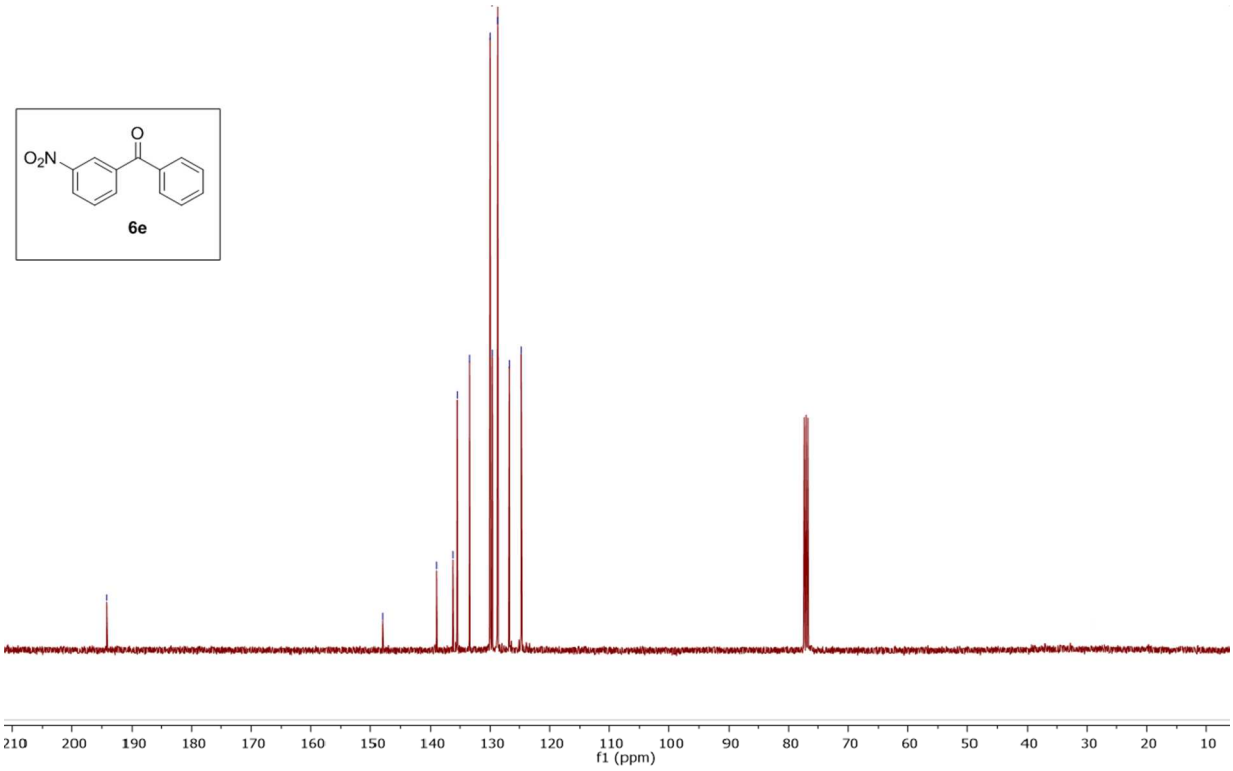
2-aminobenzophenone (6d) (^{13}C NMR)



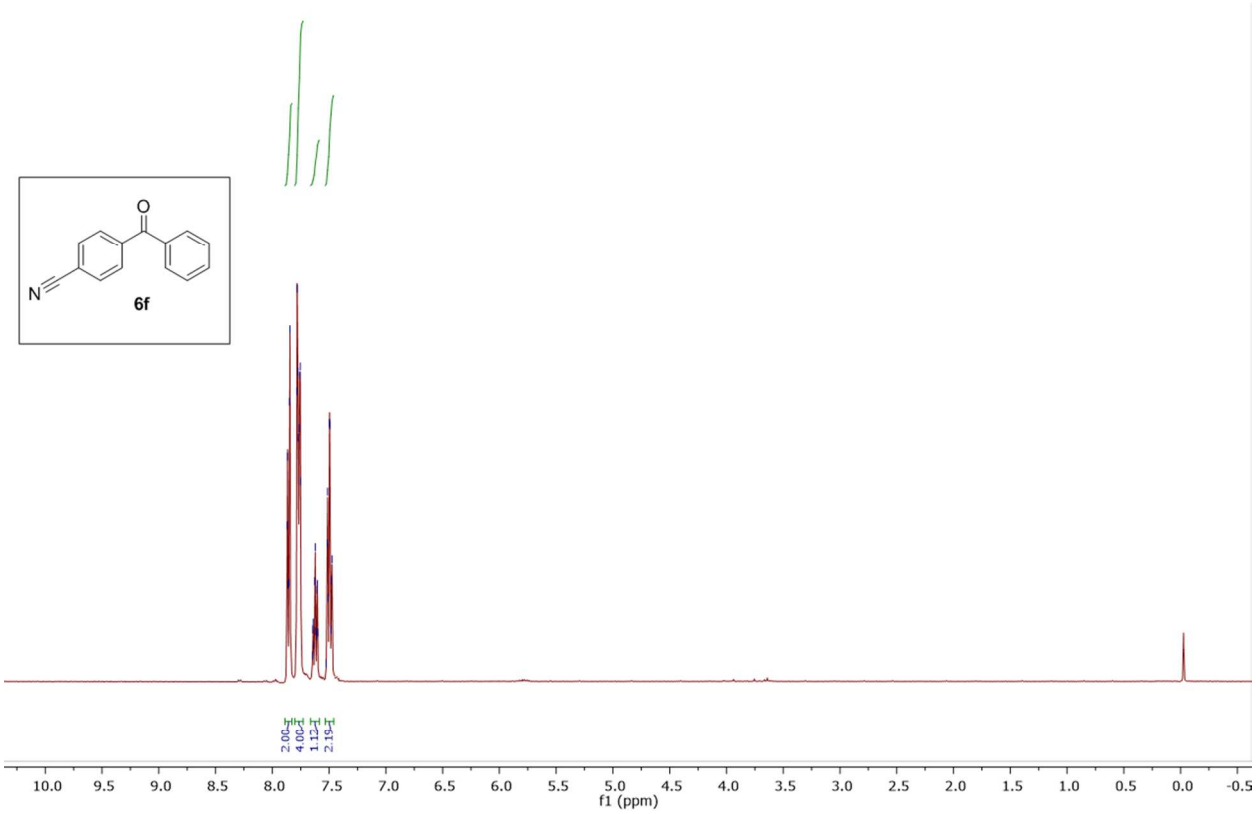
3-nitrobenzophenone (6e) (^{1}H NMR)



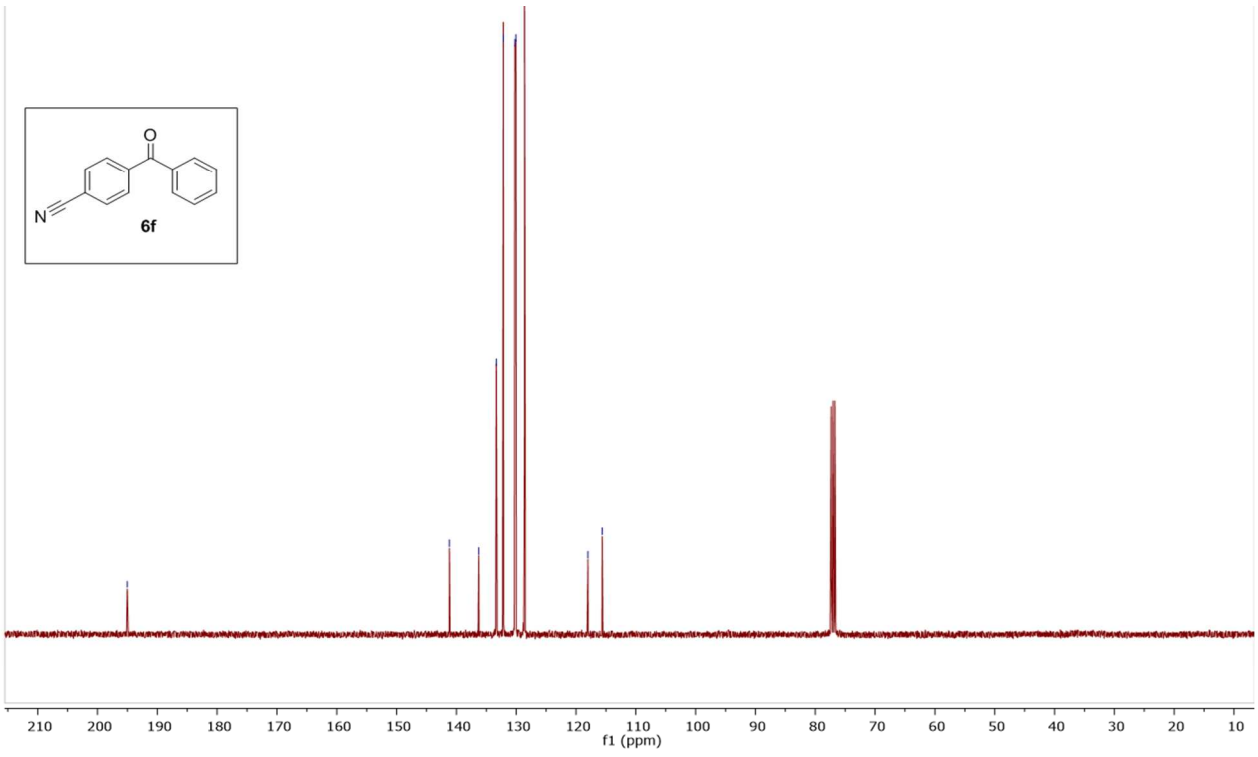
3-nitrobenzophenone (6e) (^{13}C NMR)



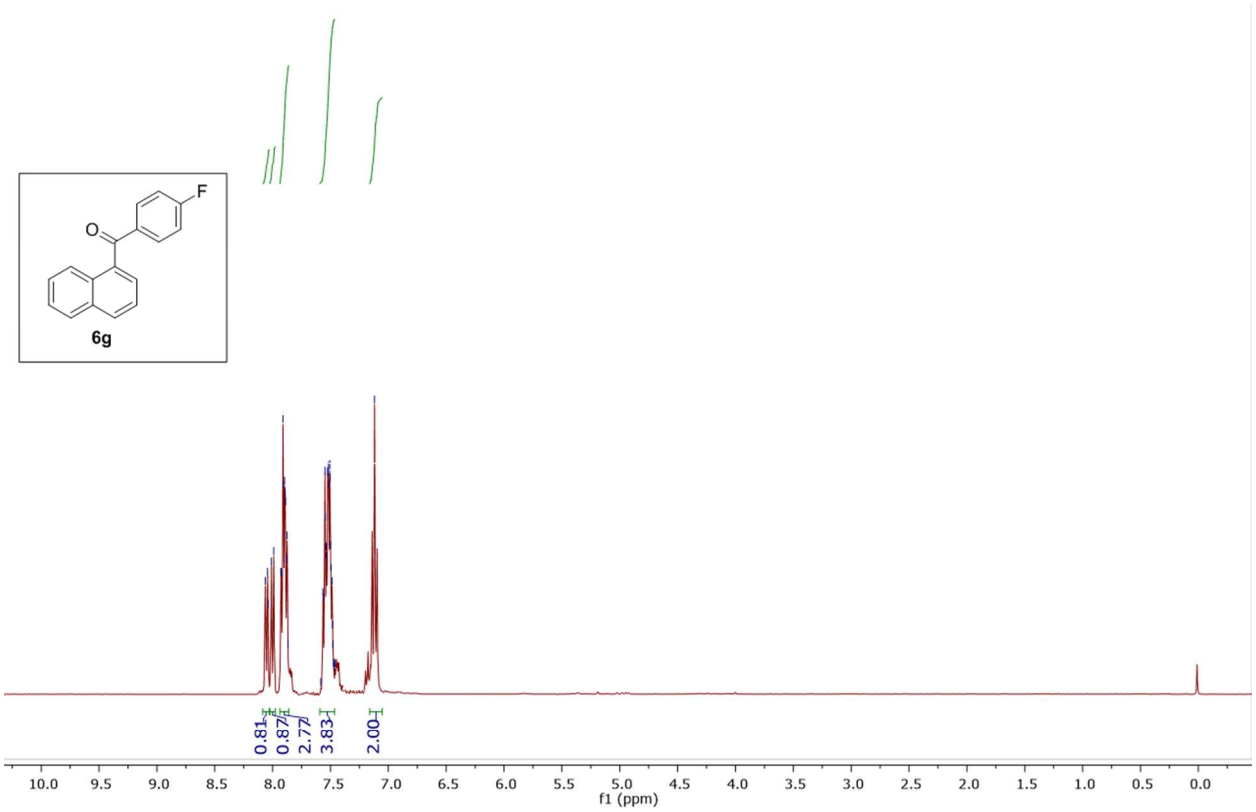
4-cyanobenzophenone (6f) (^{1}H NMR)



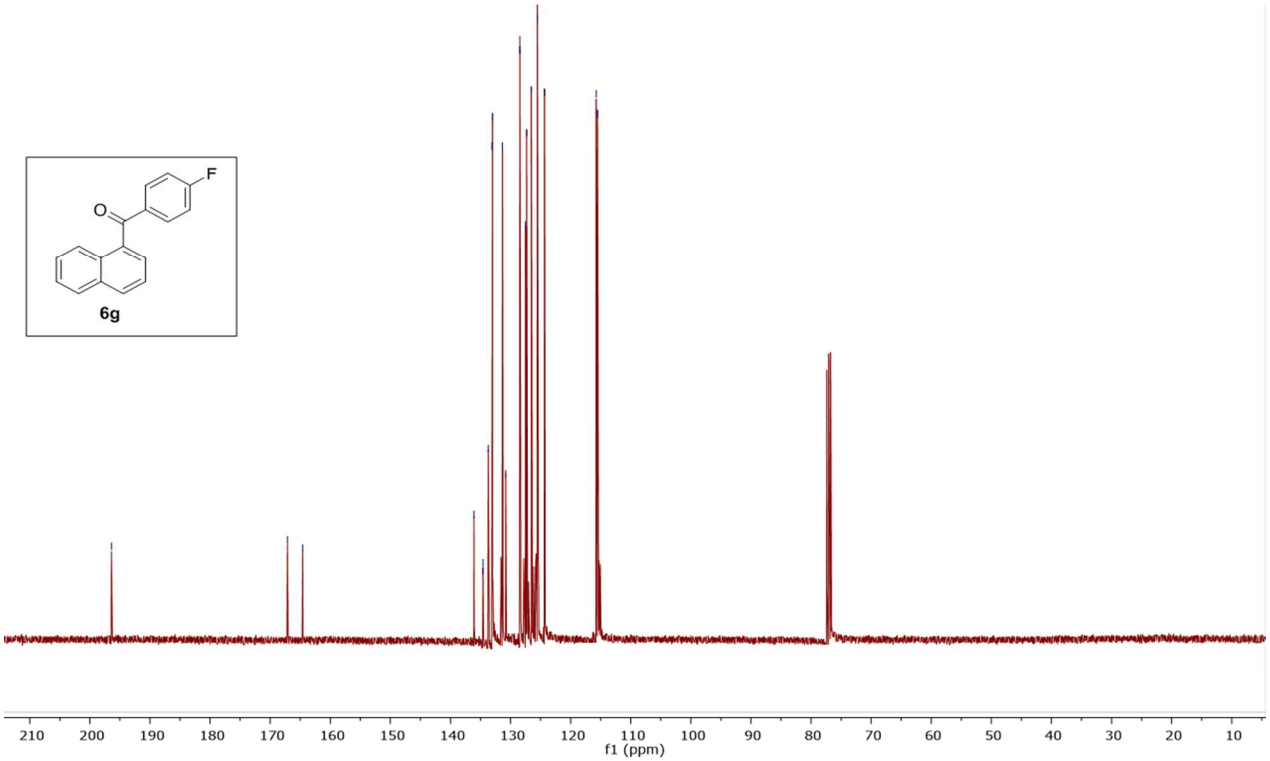
4-cyanobenzophenone (6f) (^{13}C NMR)



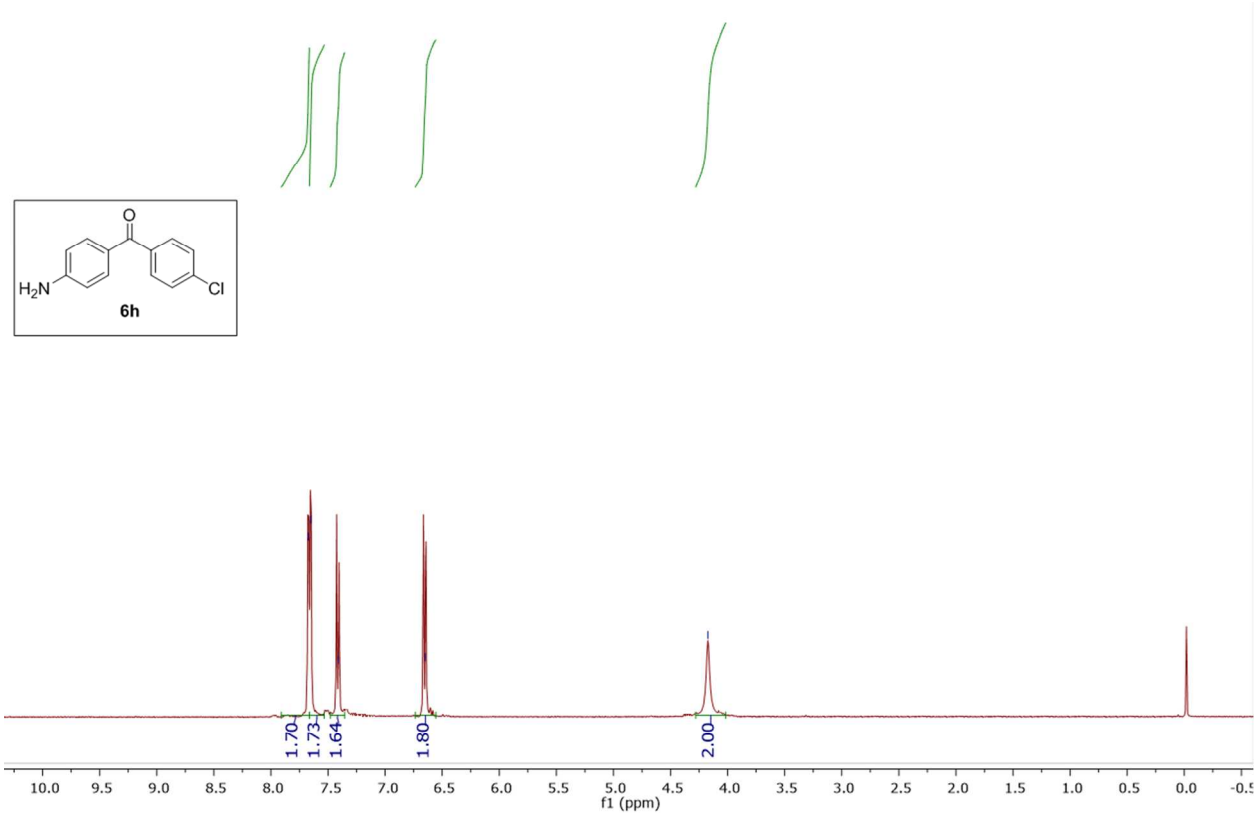
(4-fluorophenyl)(1-naphthalenyl)methanone (6g) (^{1}H NMR)



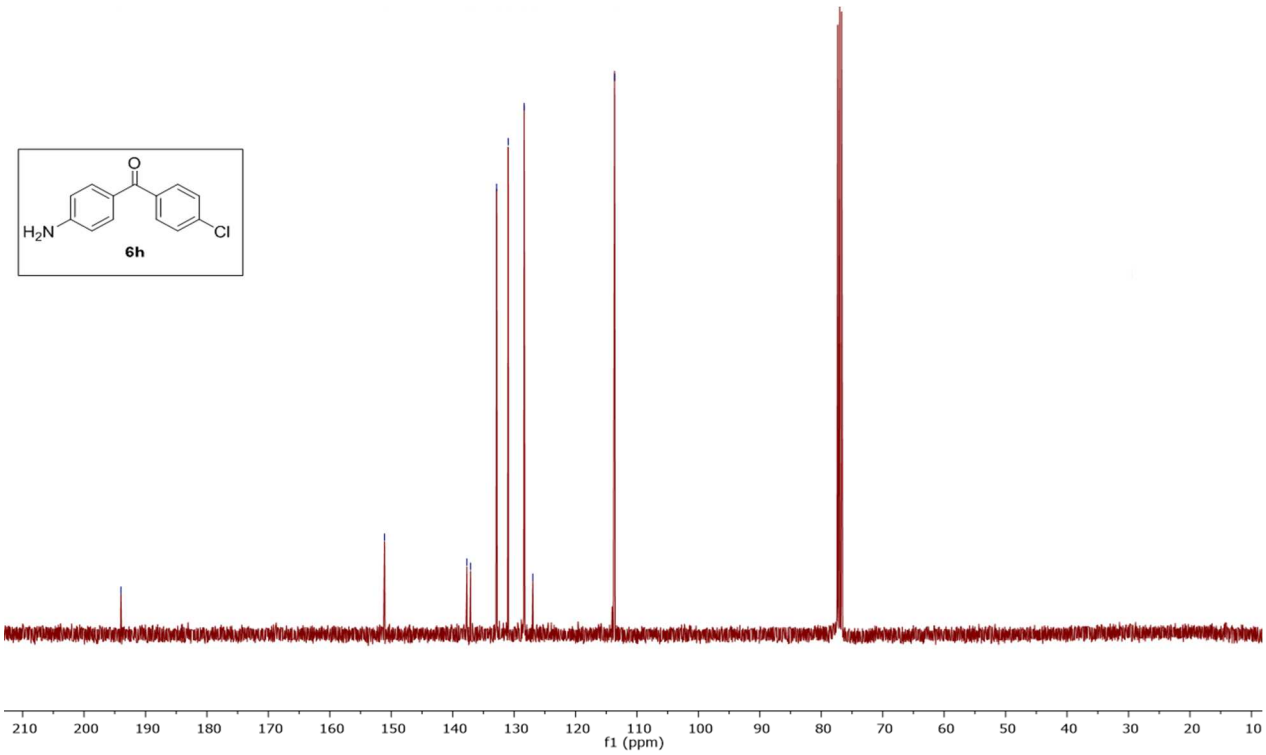
(4-fluorophenyl)(1-naphthalenyl)methanone (6g) (^{13}C NMR)



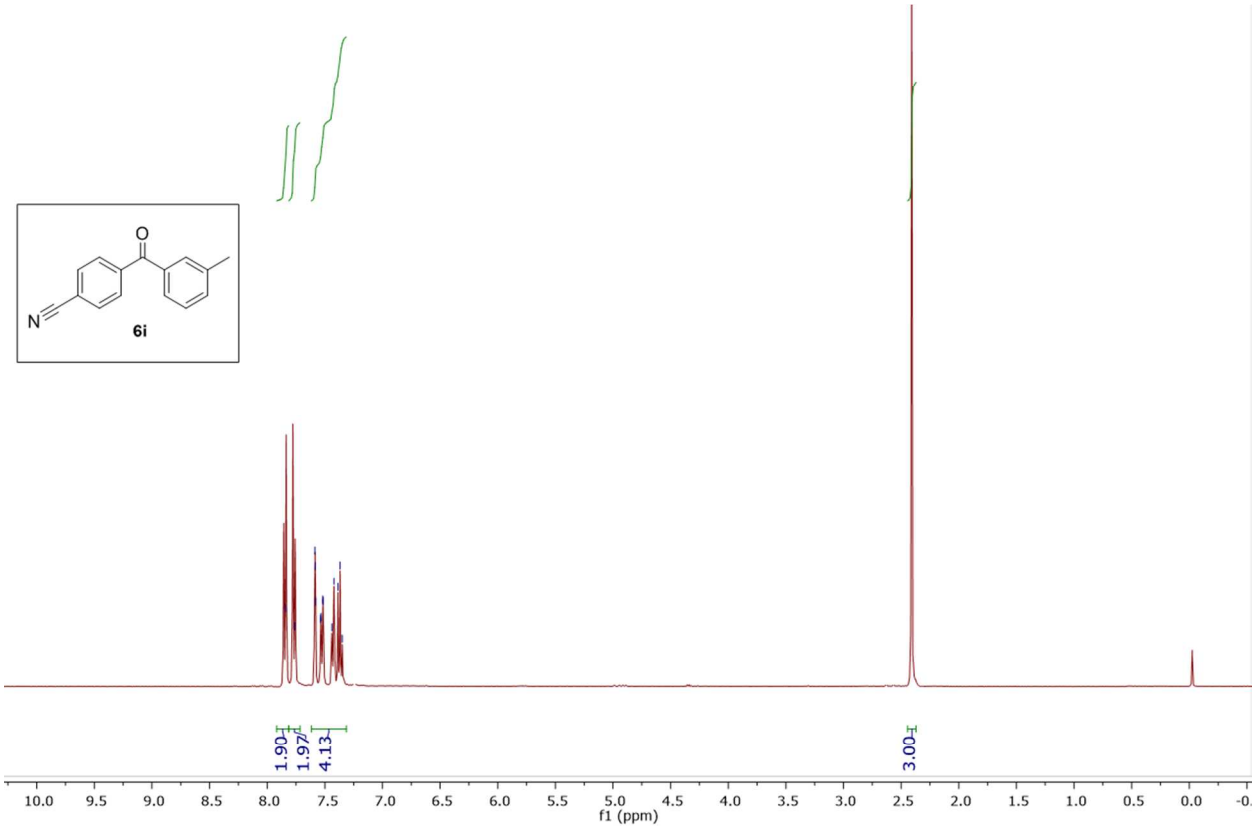
(4-aminophenyl)(4-chlorophenyl)methanone (6h) (^{1}H NMR)



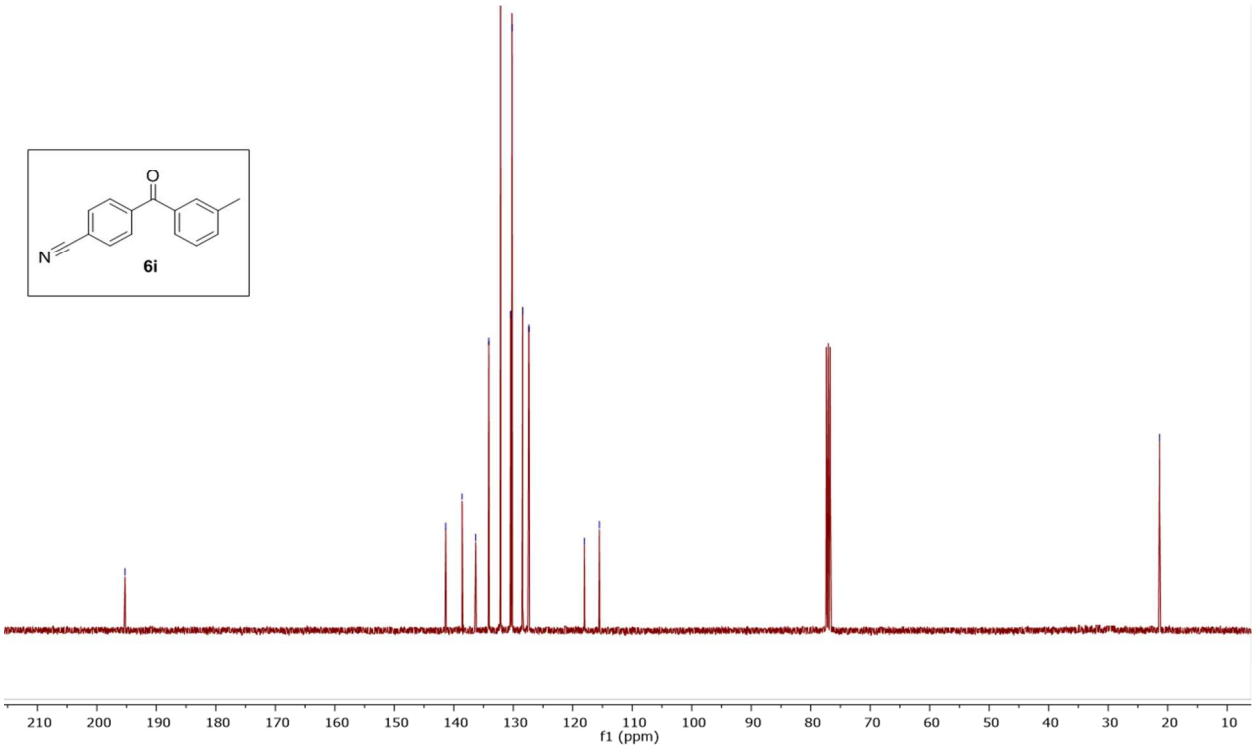
(4-aminophenyl)(4-chlorophenyl)methanone (6h) (^{13}C NMR)



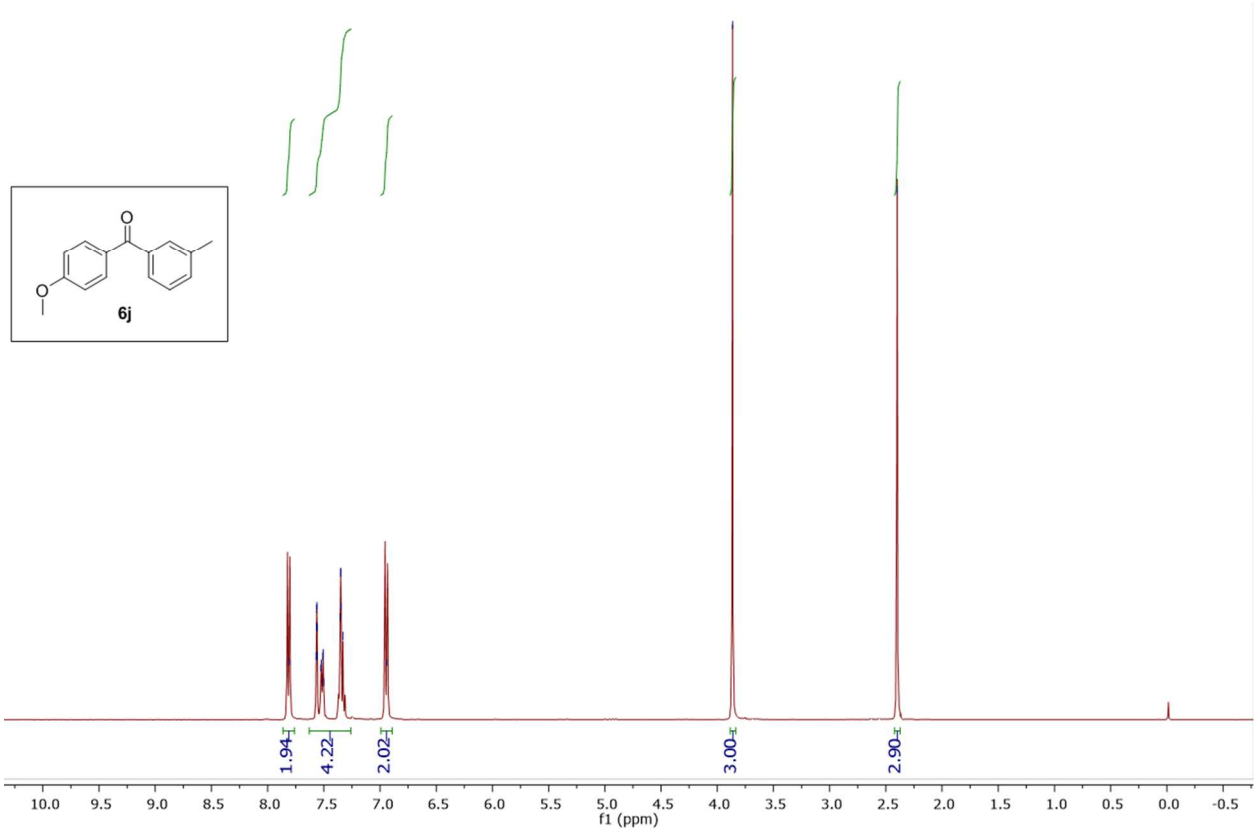
4-(3-methylbenzoyl)benzonitrile (6i) (^{1}H NMR)



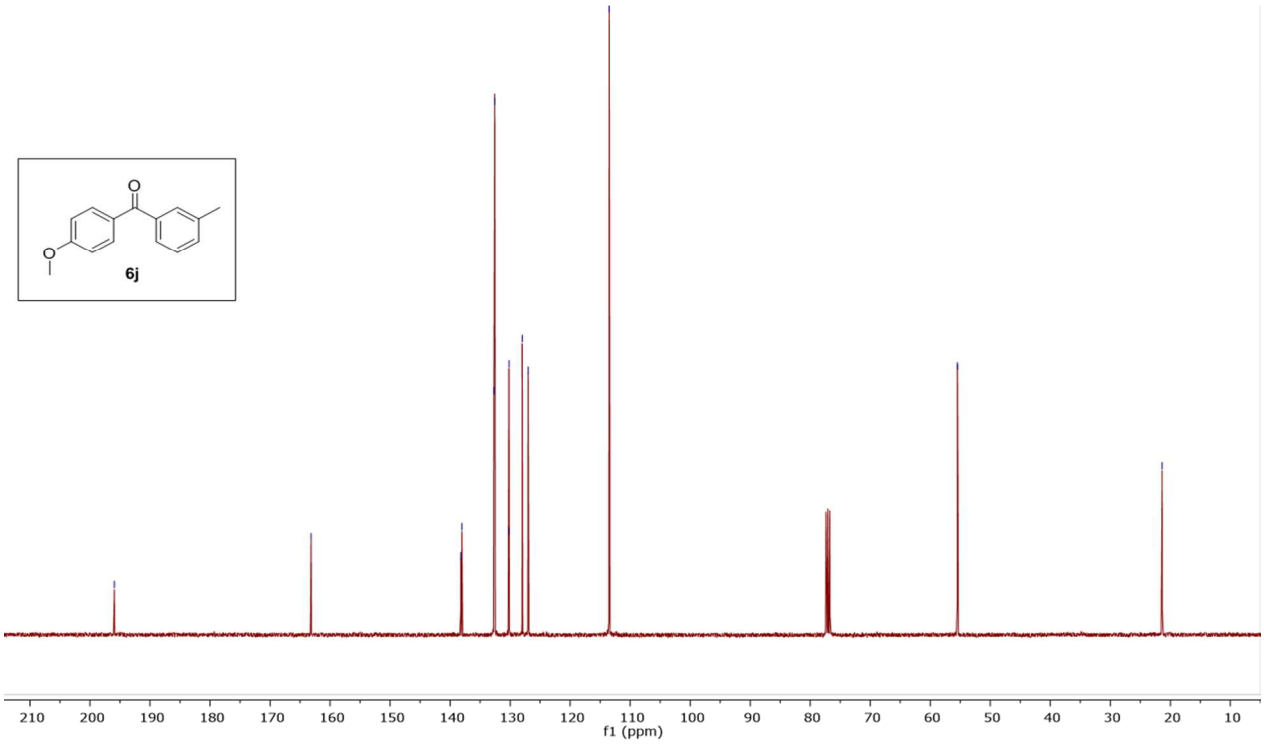
4-(3-methylbenzoyl)benzonitrile (6i) (^{13}C NMR)



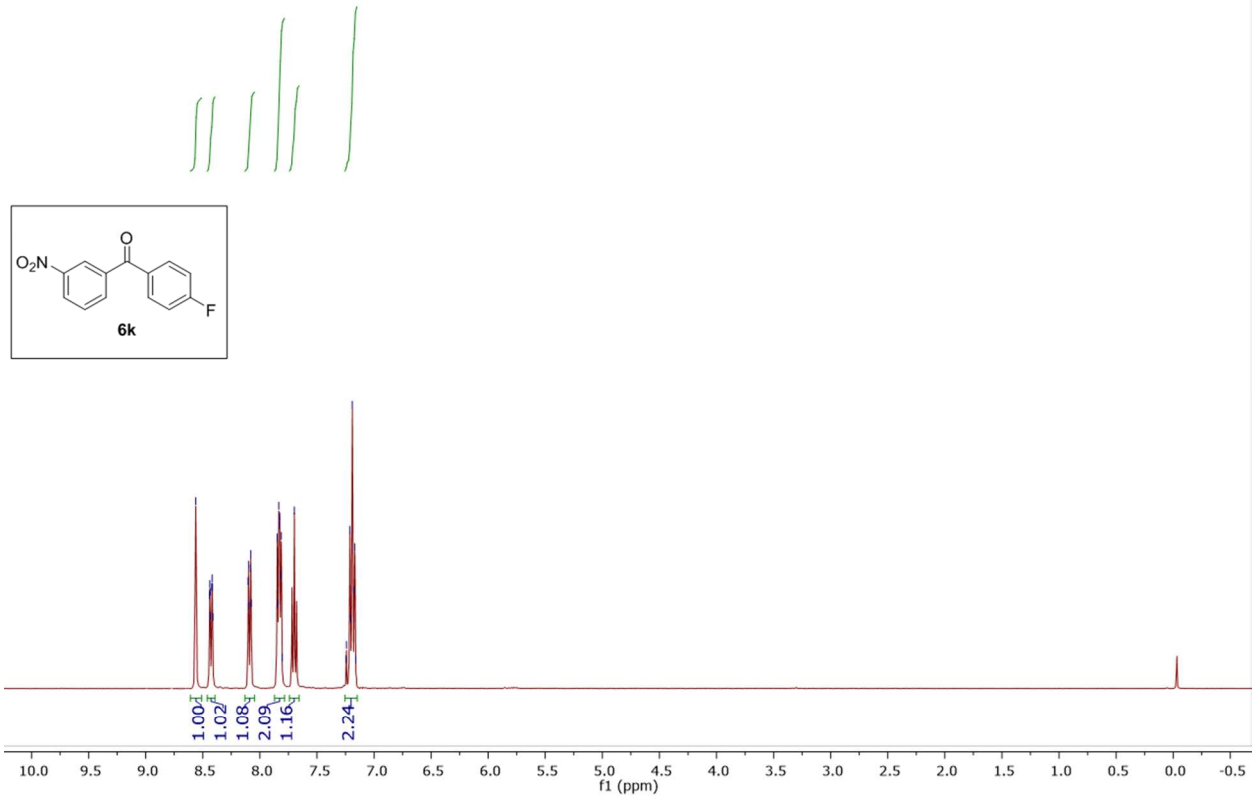
(4-methoxyphenyl)(m-tolyl)methanone (6j) (^{1}H NMR)



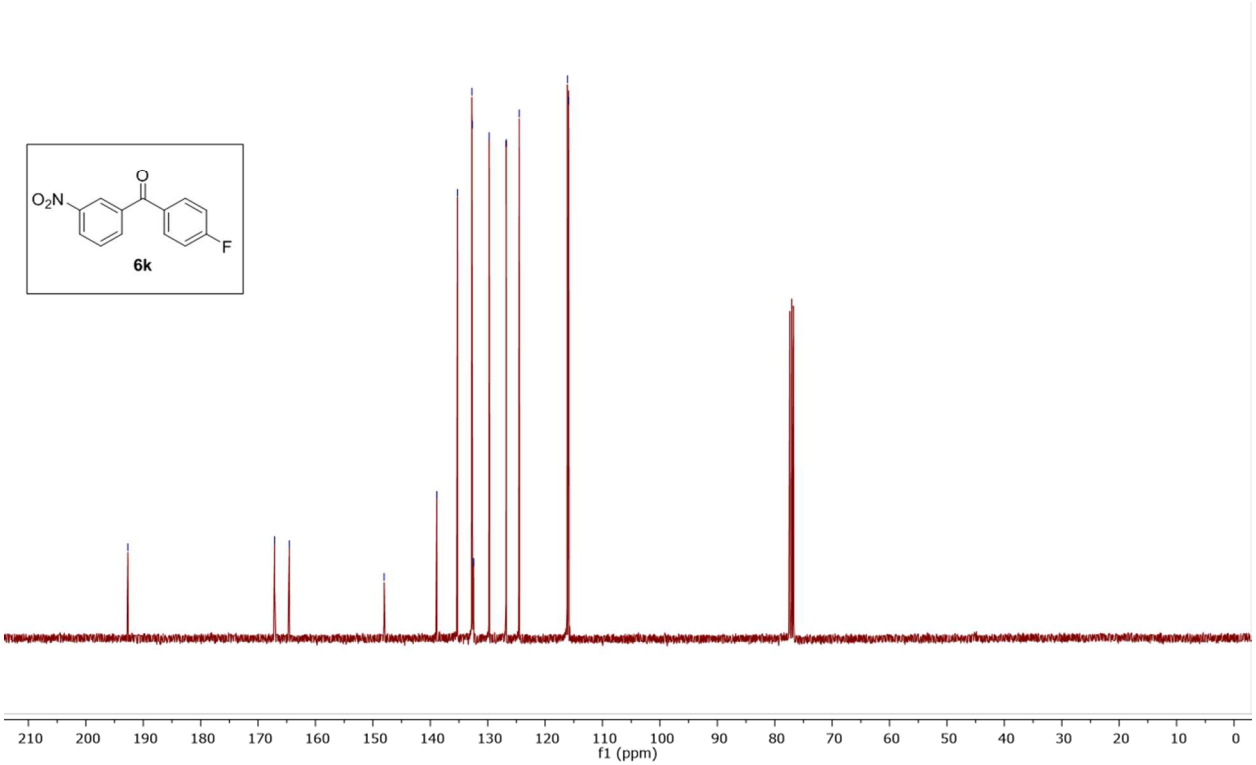
(4-methoxyphenyl)(m-tolyl)methanone (6j) (^{13}C NMR)



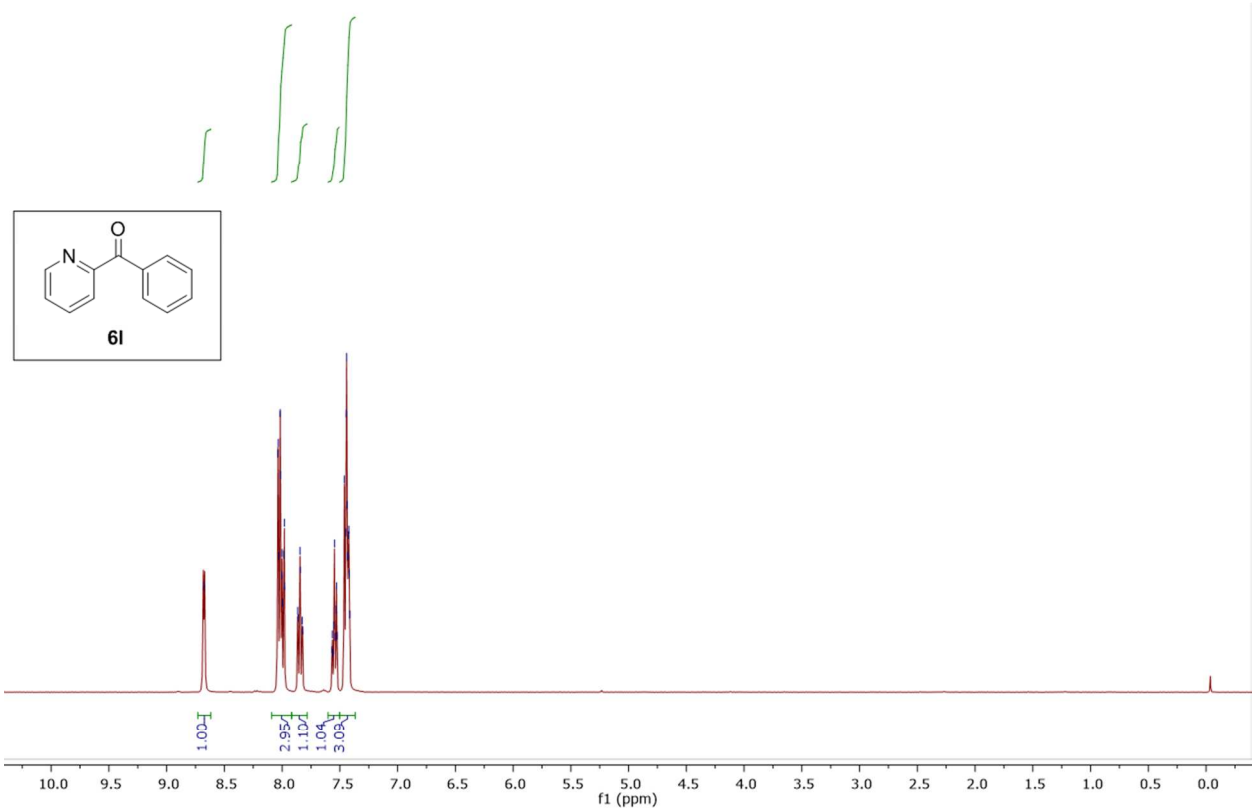
(4-fluorophenyl)(3-nitrophenyl)methanone (6k) (^{1}H NMR)



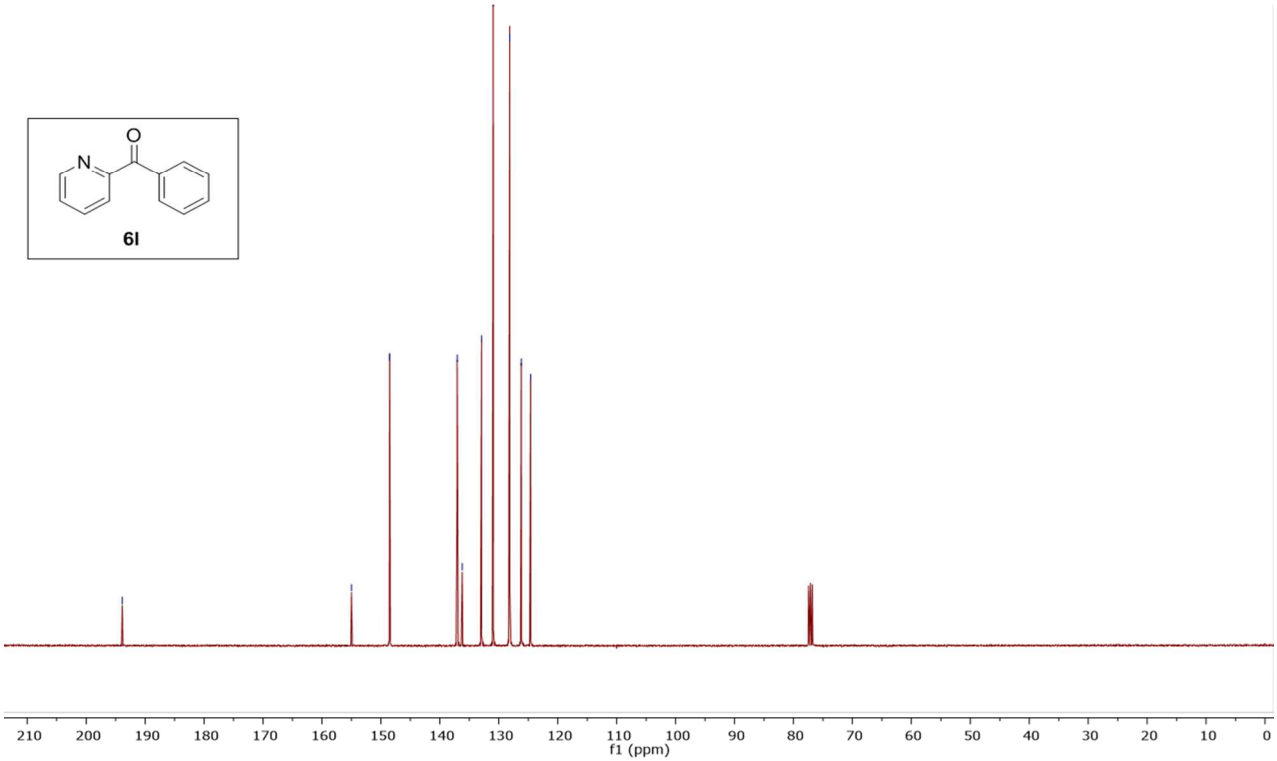
(4-fluorophenyl)(3-nitrophenyl)methanone (6k) (^{13}C NMR)



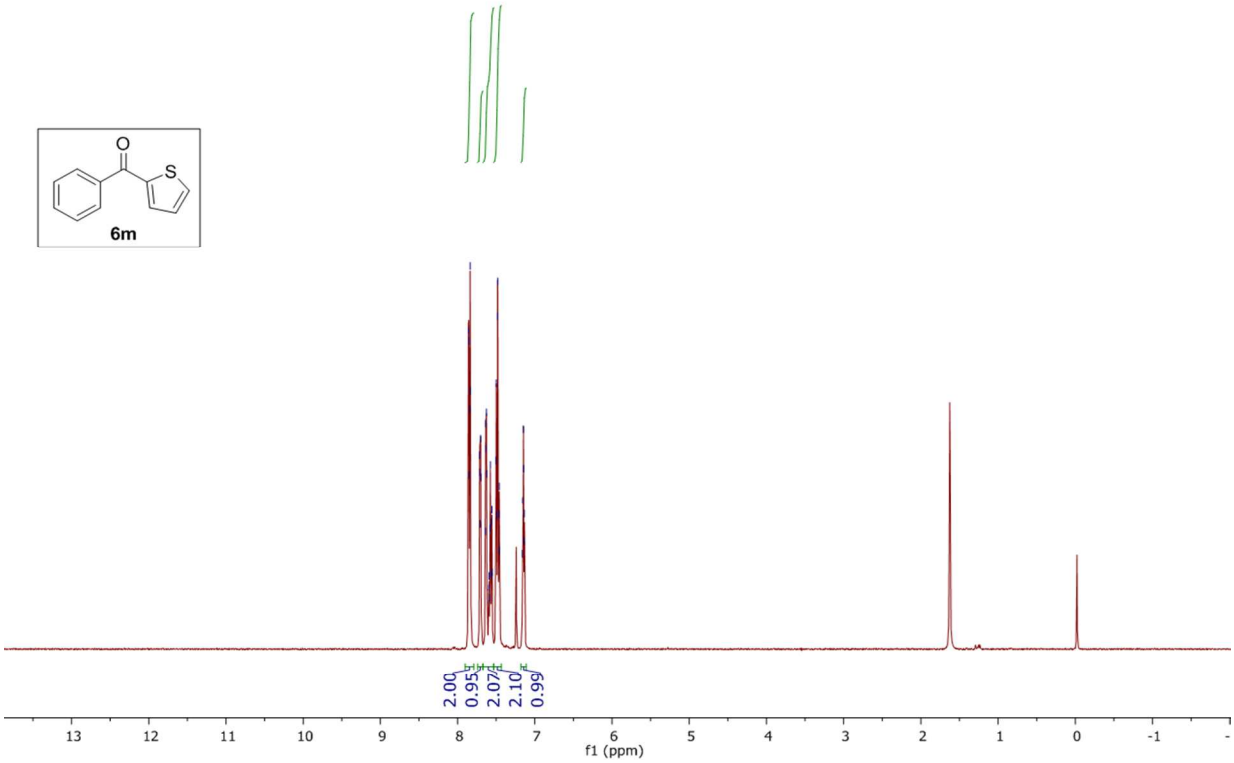
Phenyl(2-pyridinyl)methanone (6l) (^{1}H NMR)



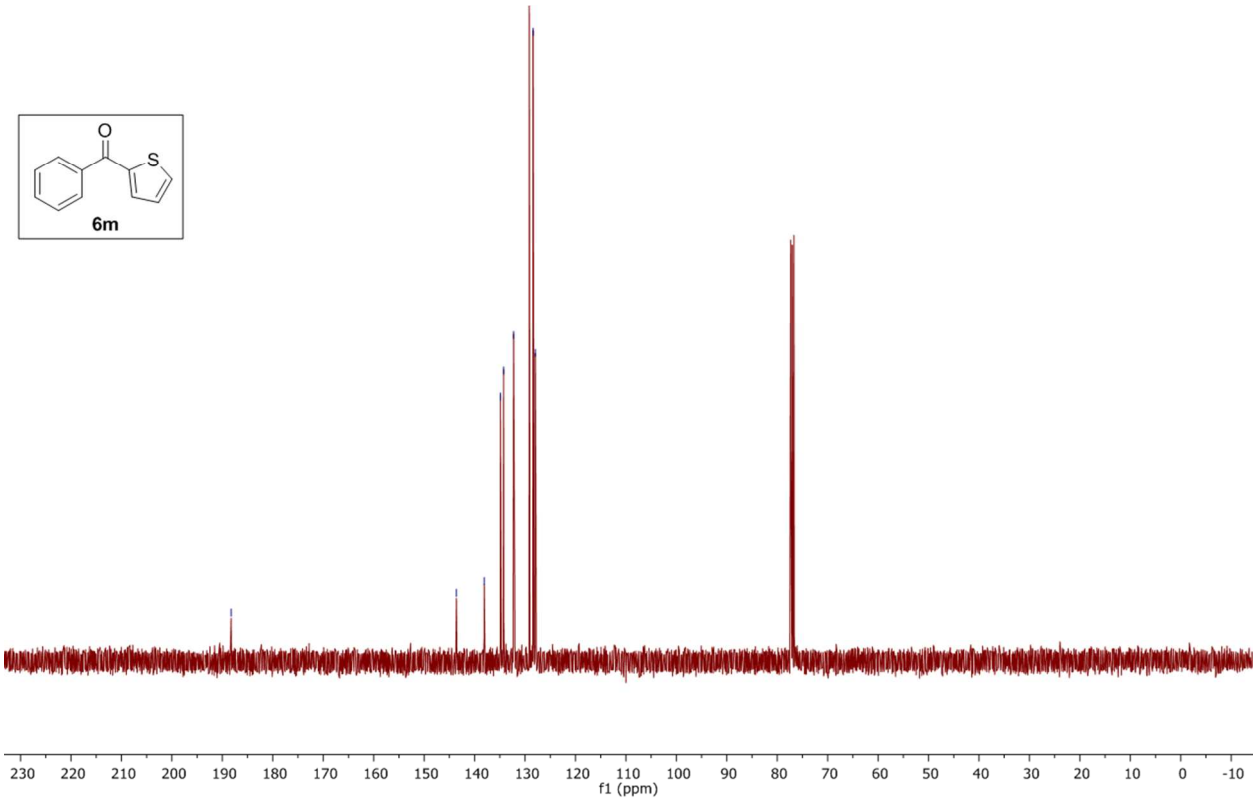
Phenyl(2-pyridinyl)methanone (6l) (^{13}C NMR)



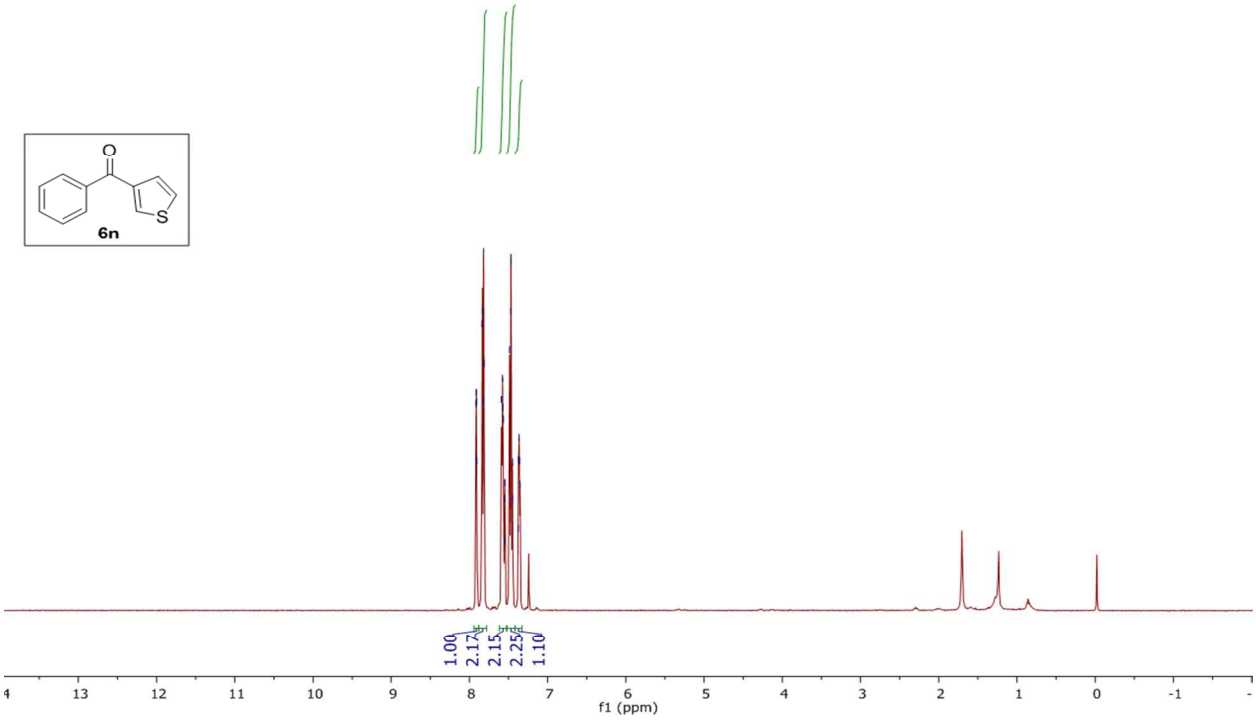
2–benzoylthiophene (6m) (^{1}H NMR)



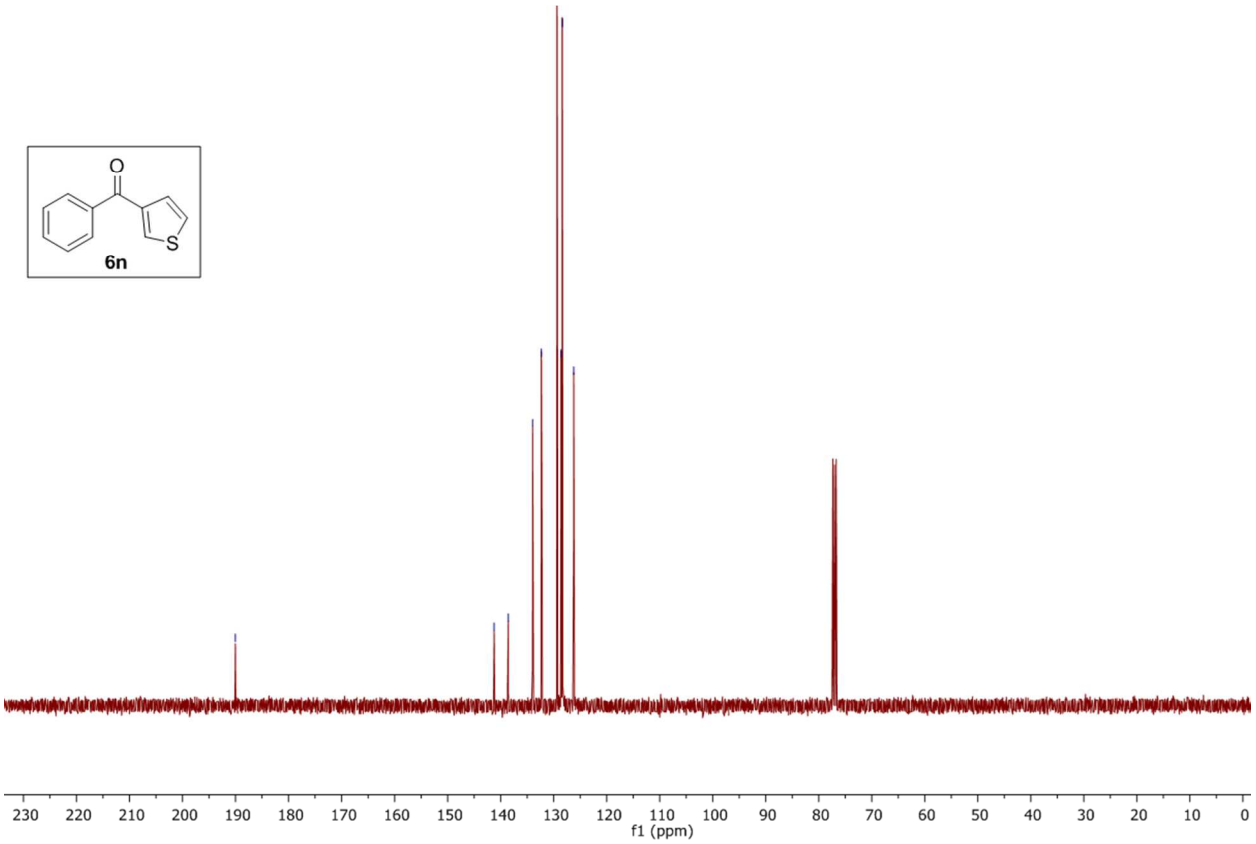
2–benzoylthiophene (6m) (^{13}C NMR)



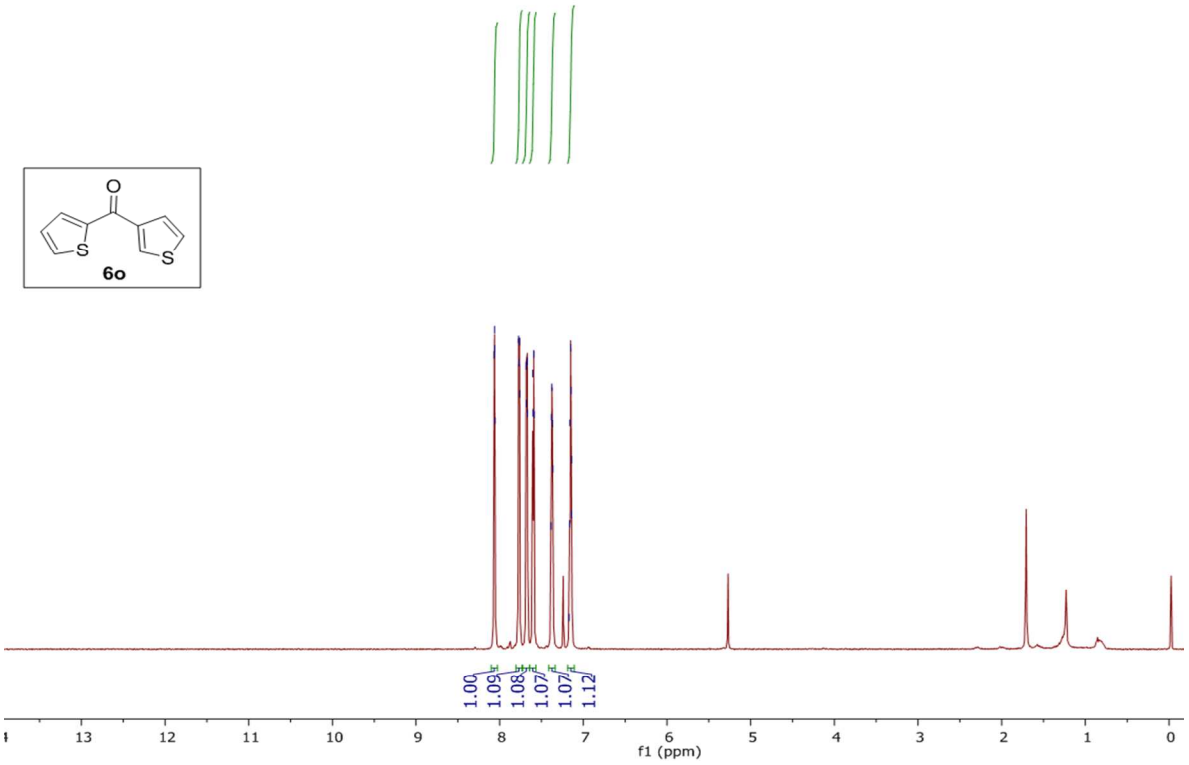
3–benzoylthiophene (6n) (^{1}H NMR)



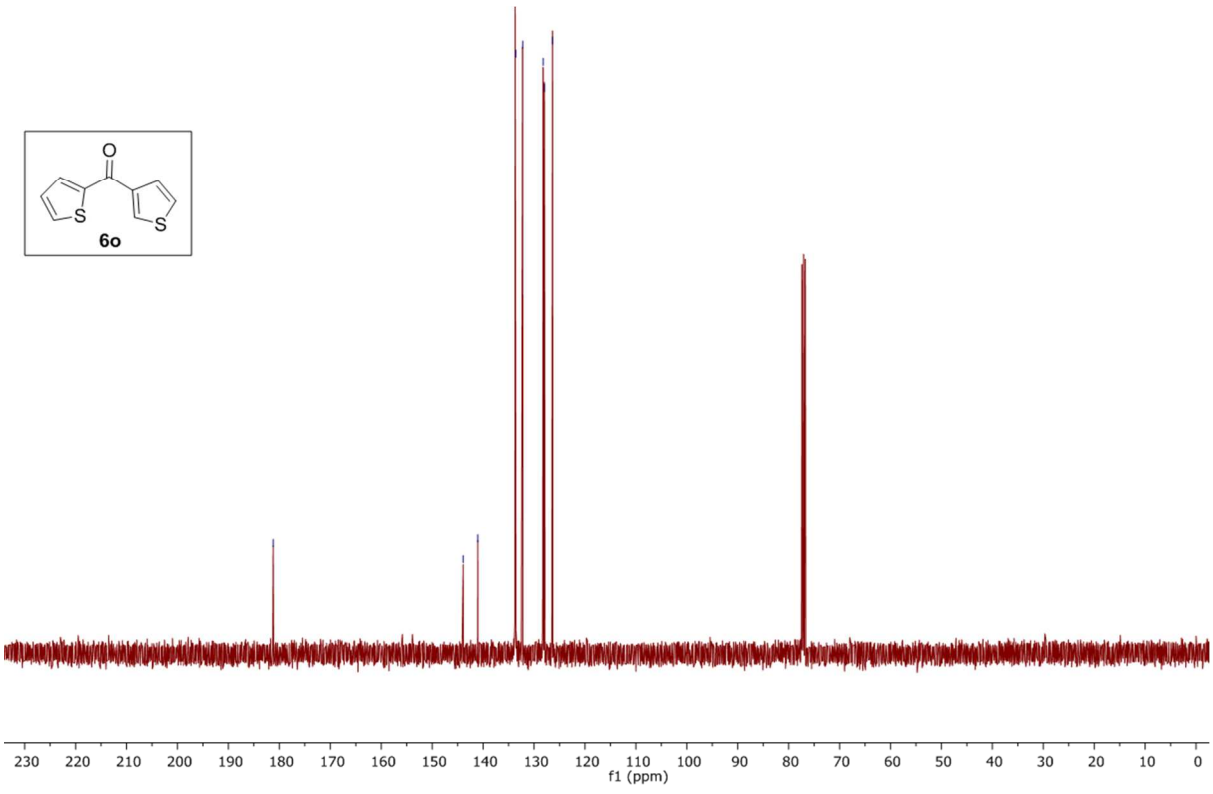
3–benzoylthiophene (6n) (^{13}C NMR)



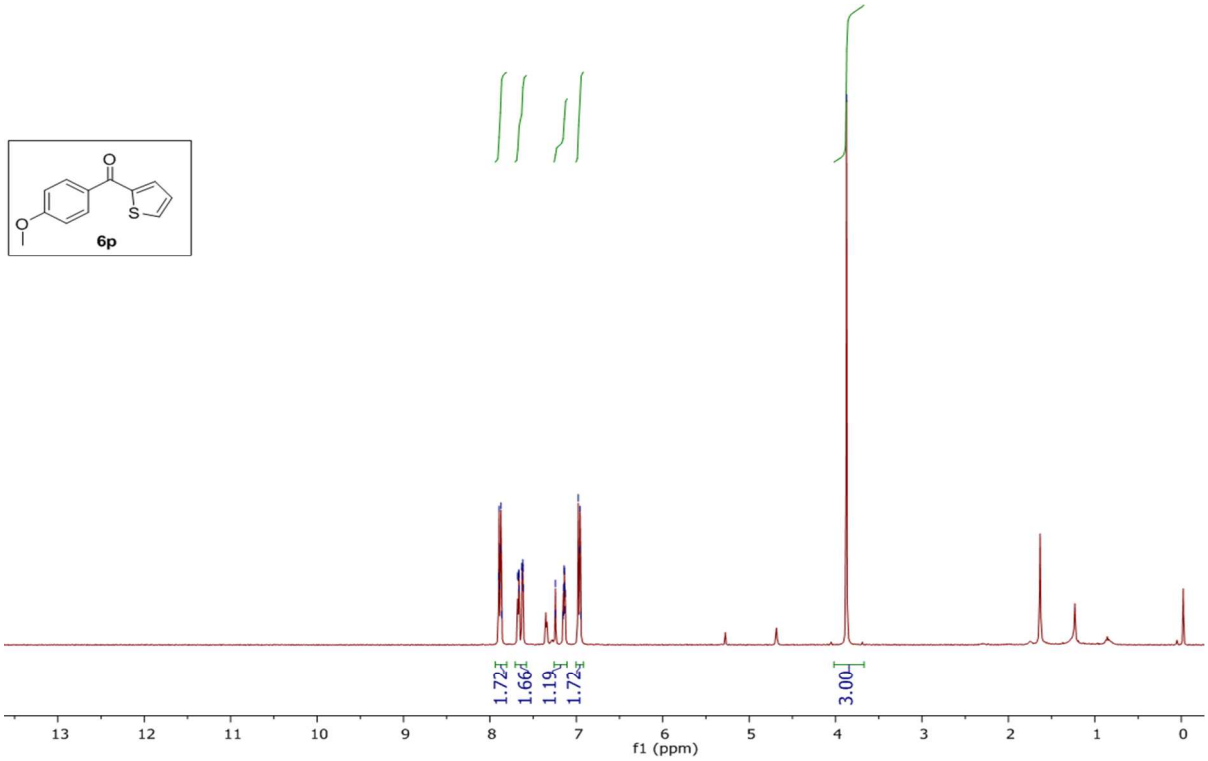
Thiophen–2–yl(thiophen–3–yl)methanone (6o) (^{1}H NMR)



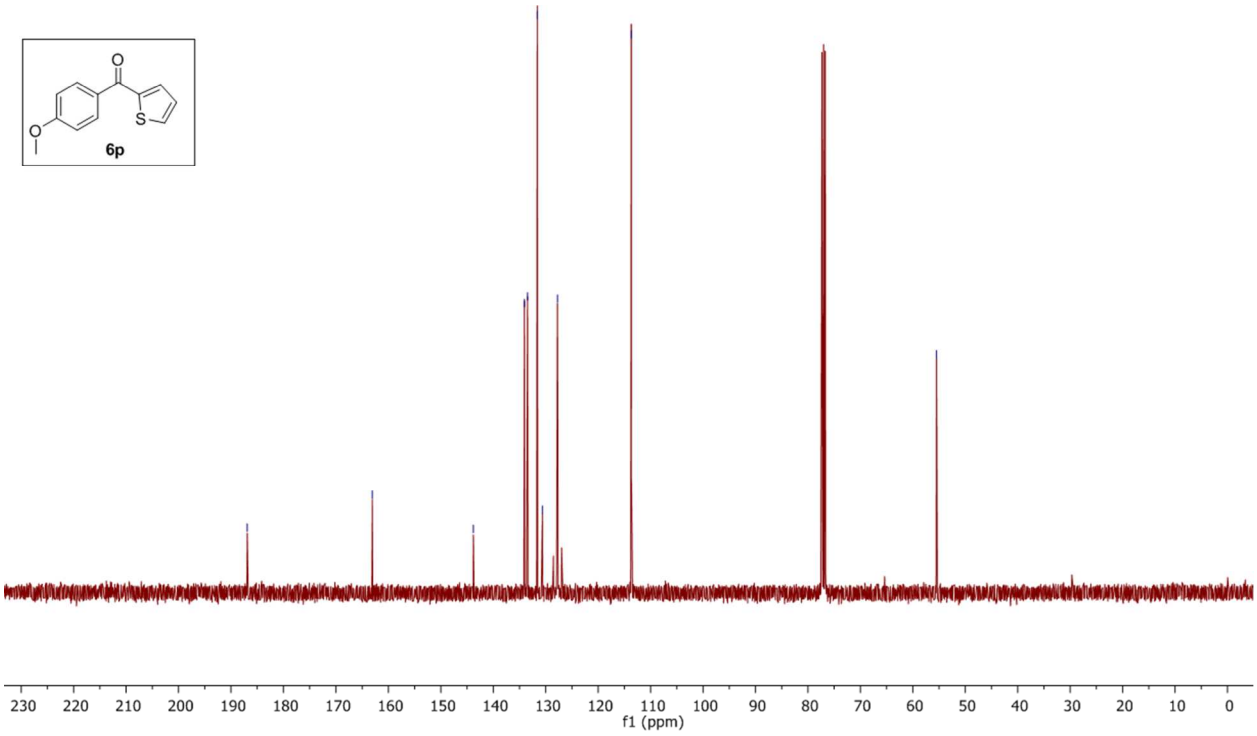
Thiophen–2–yl(thiophen–3–yl)methanone (6o) (^{13}C NMR)



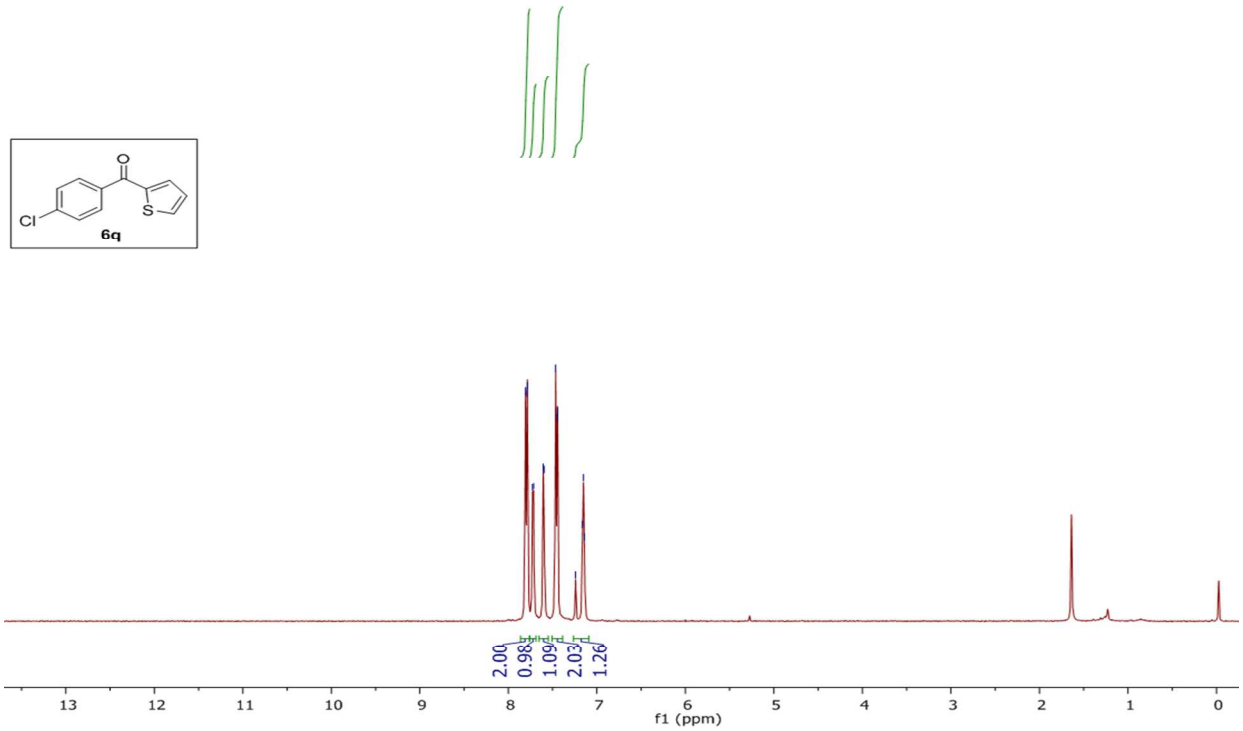
(4–methoxyphenyl)(thiophen–2–yl)methanone (6p) (^{1}H NMR)



(4–methoxyphenyl)(thiophen–2–yl)methanone (6p) (^{13}C NMR)



(4–chlorophenyl)(thiophen–2–yl)methanone (6q) (^{1}H NMR)



(4–chlorophenyl)(thiophen–2–yl)methanone (6q) (^{13}C NMR)