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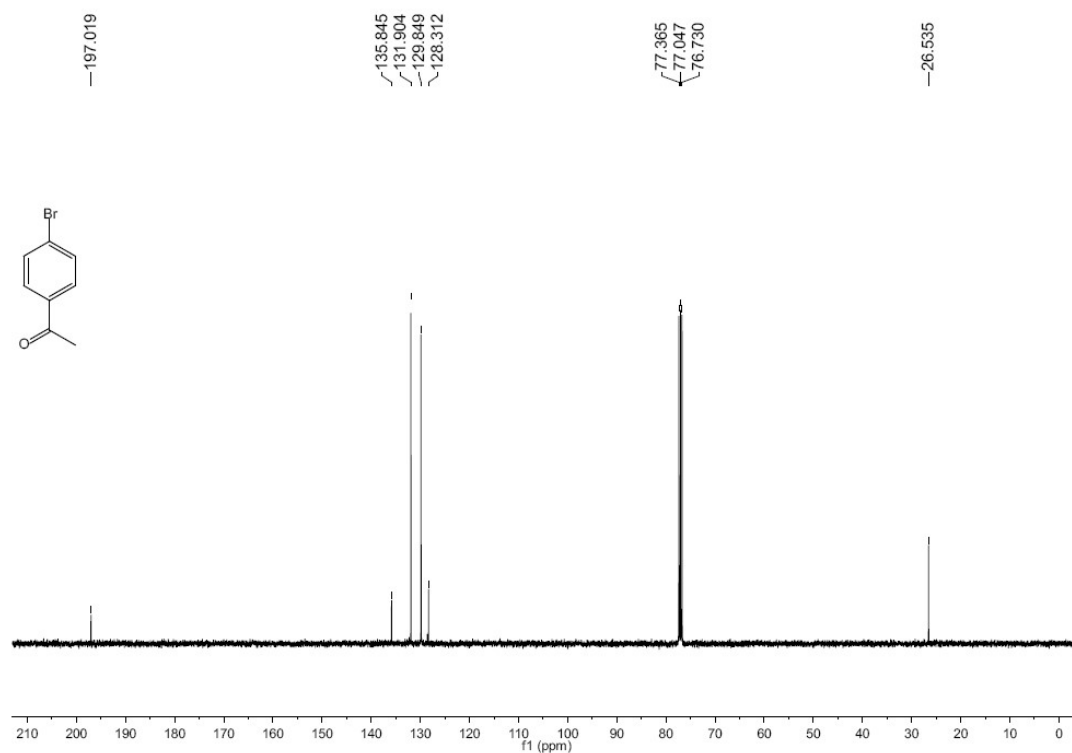
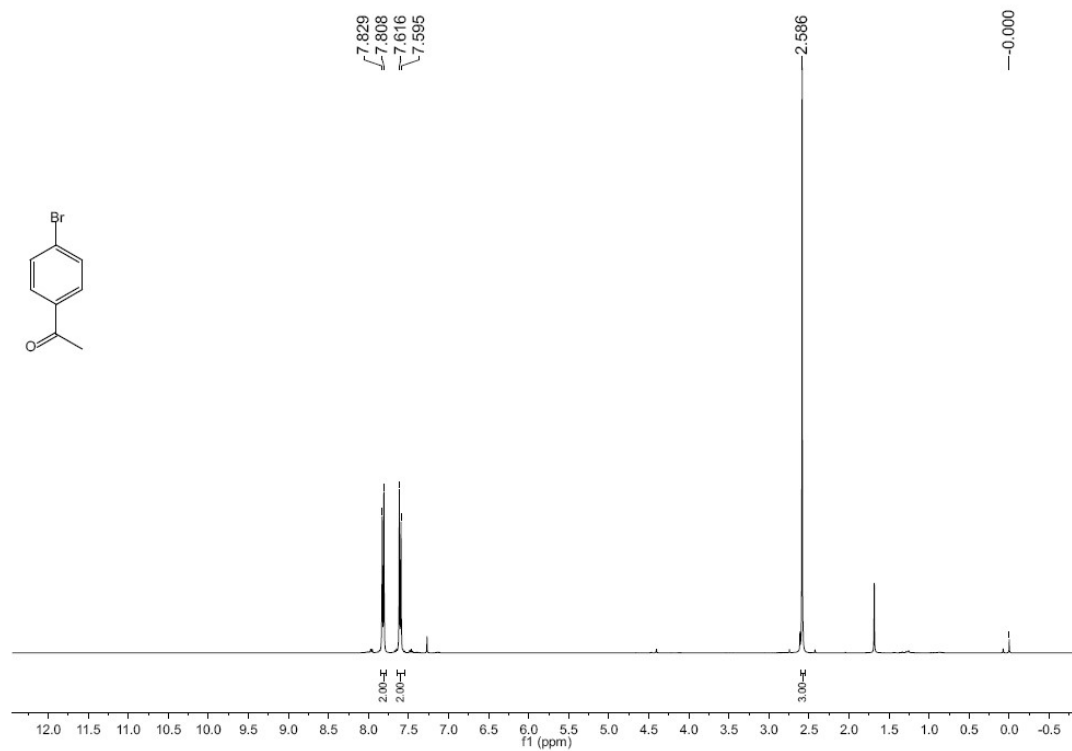
Heterogeneous gold-catalyzed Sandmeyer coupling of aryl diazonium salts with sodium bromide or thiols for constructing C–Br and C–S bonds

Jiajia Li, Jiajun Zeng, Wenyan Hao,* Mingzhong Cai*

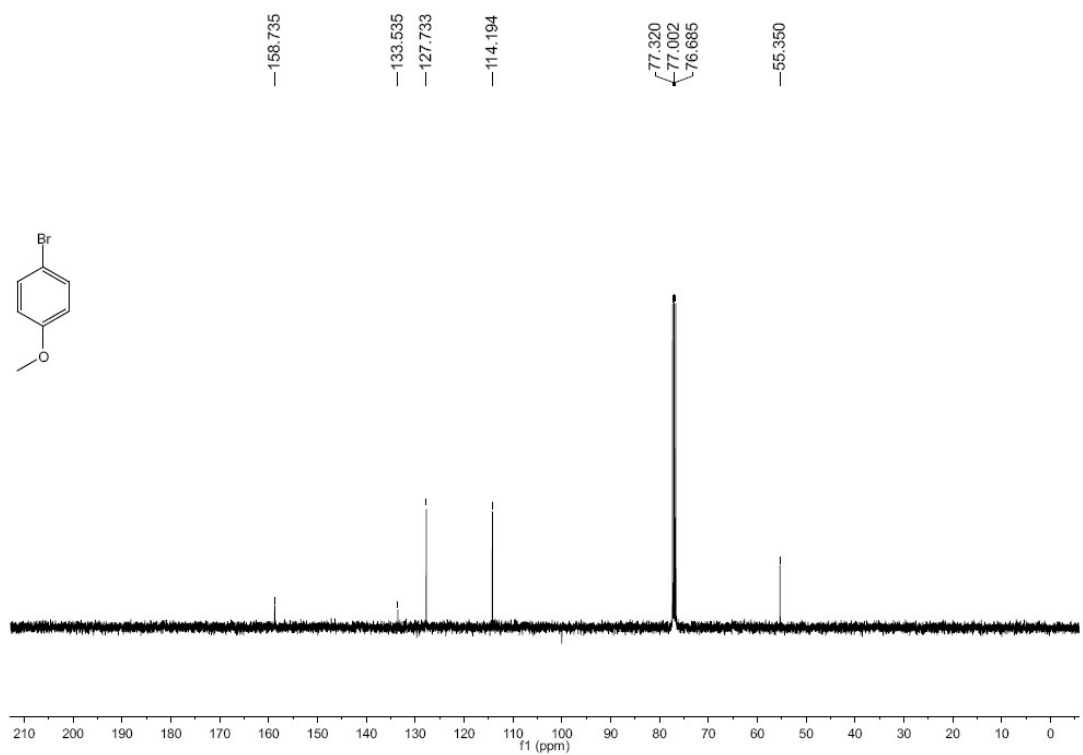
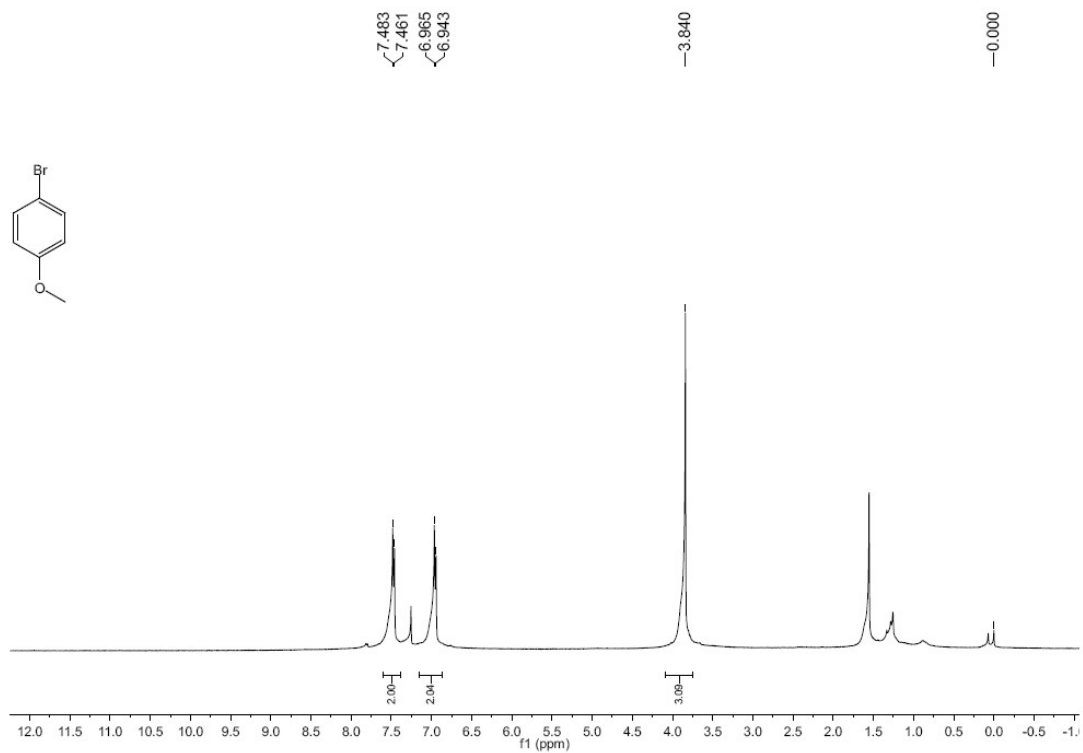
Key Lab of Fluorine and Silicon for Energy Materials and Chemistry of Ministry of Education and College of Chemistry & Chemical Engineering, Jiangxi Normal University, Nanchang 330022, China

E-mail: wenyanhao@jxnu.edu.cn; mzcai@jxnu.edu.cn

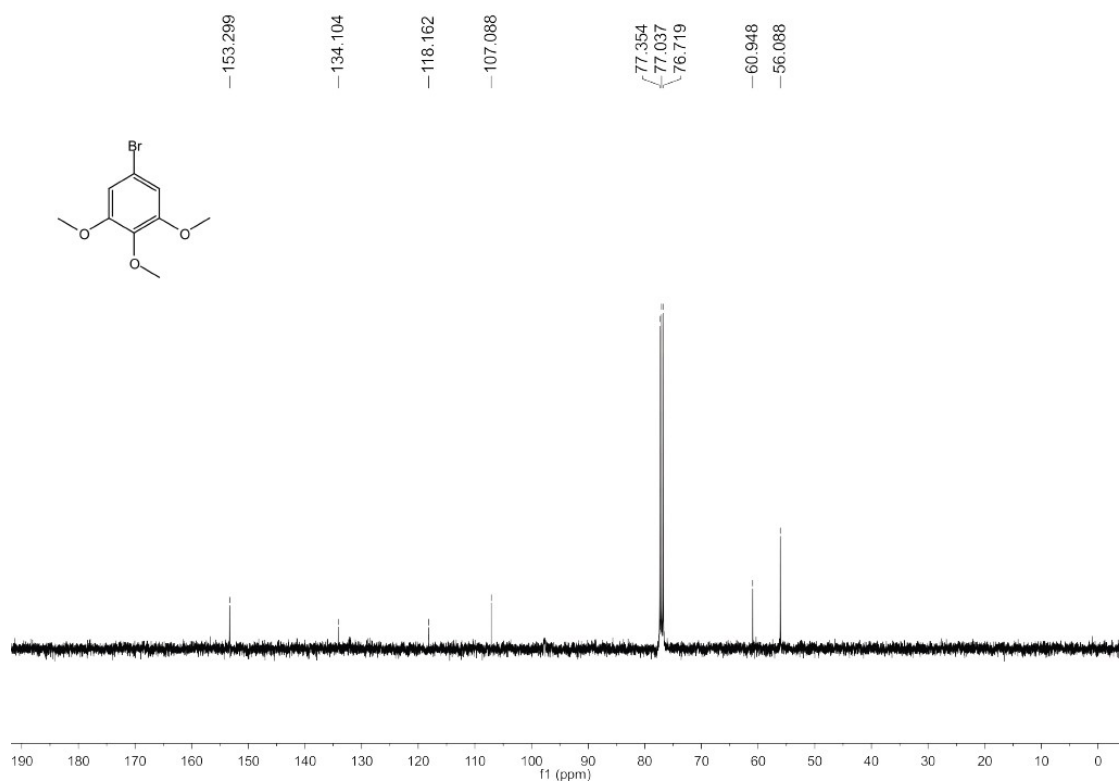
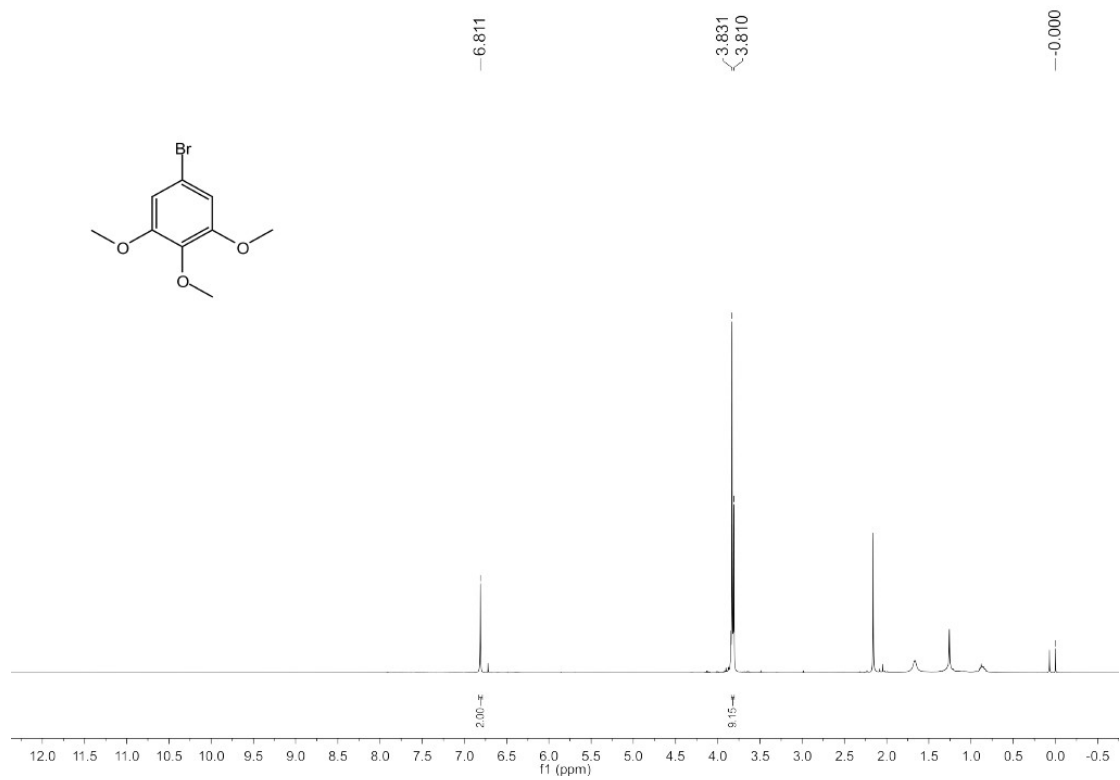
Copies of NMR Spectra of Compounds 2a-2t and 4a-4c'



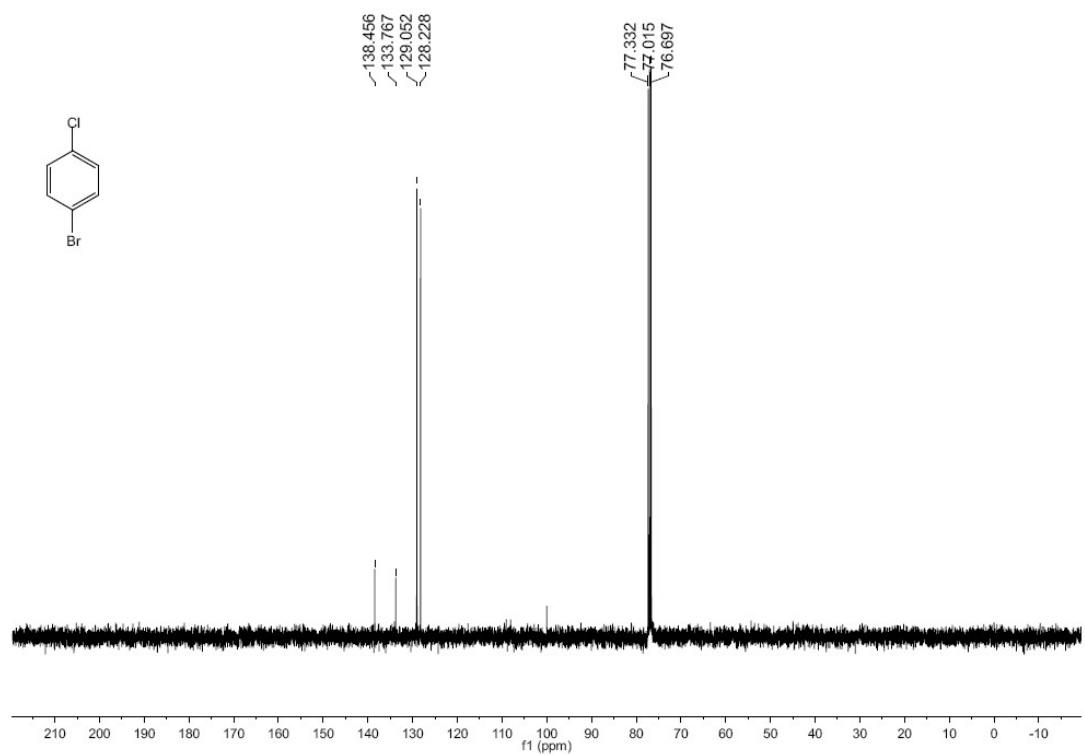
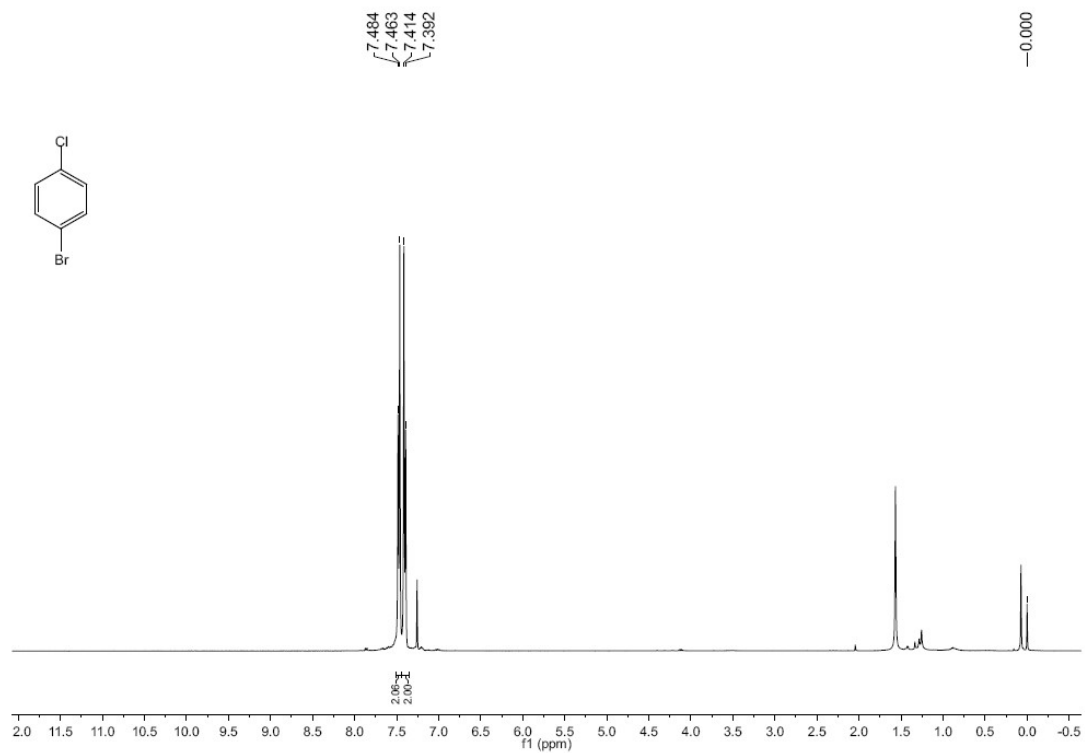
^1H NMR and ^{13}C NMR spectra of compounds **2a** (in CDCl_3)



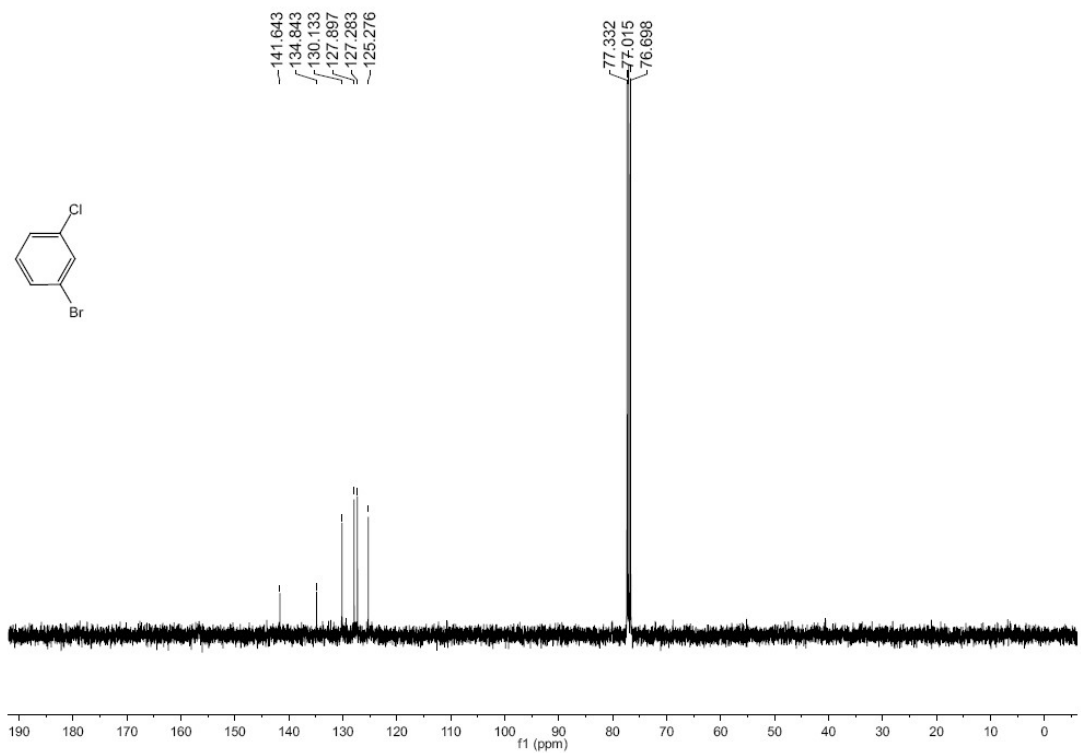
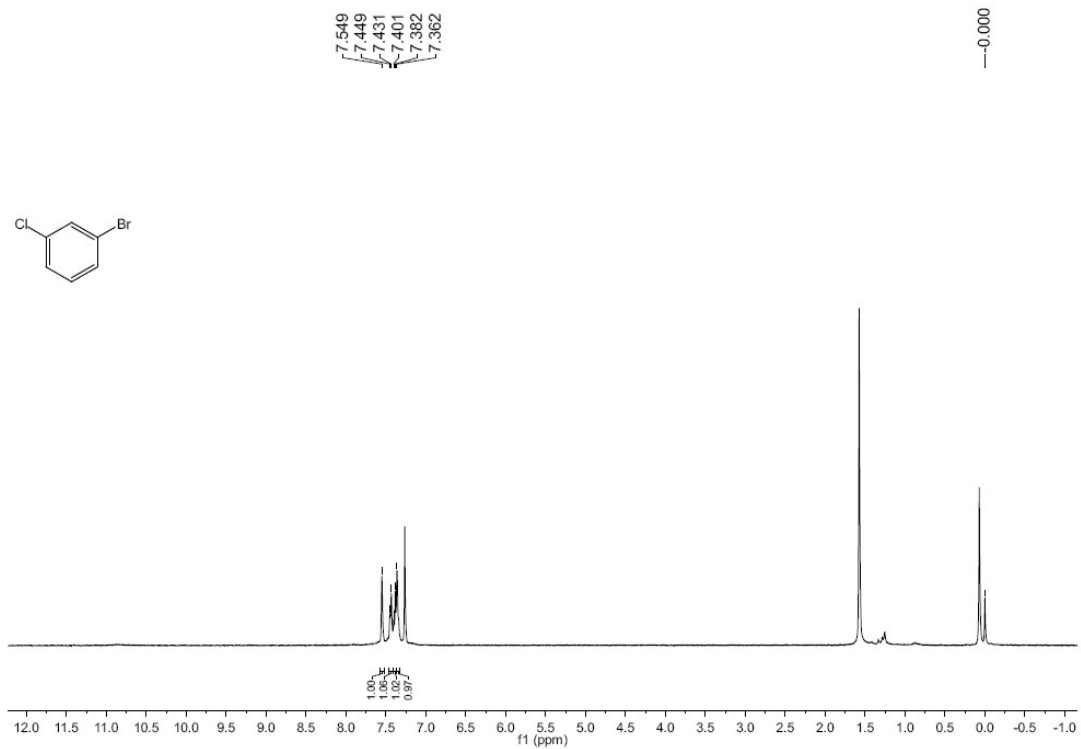
^1H NMR and ^{13}C NMR spectra of compounds **2b** (in CDCl_3)



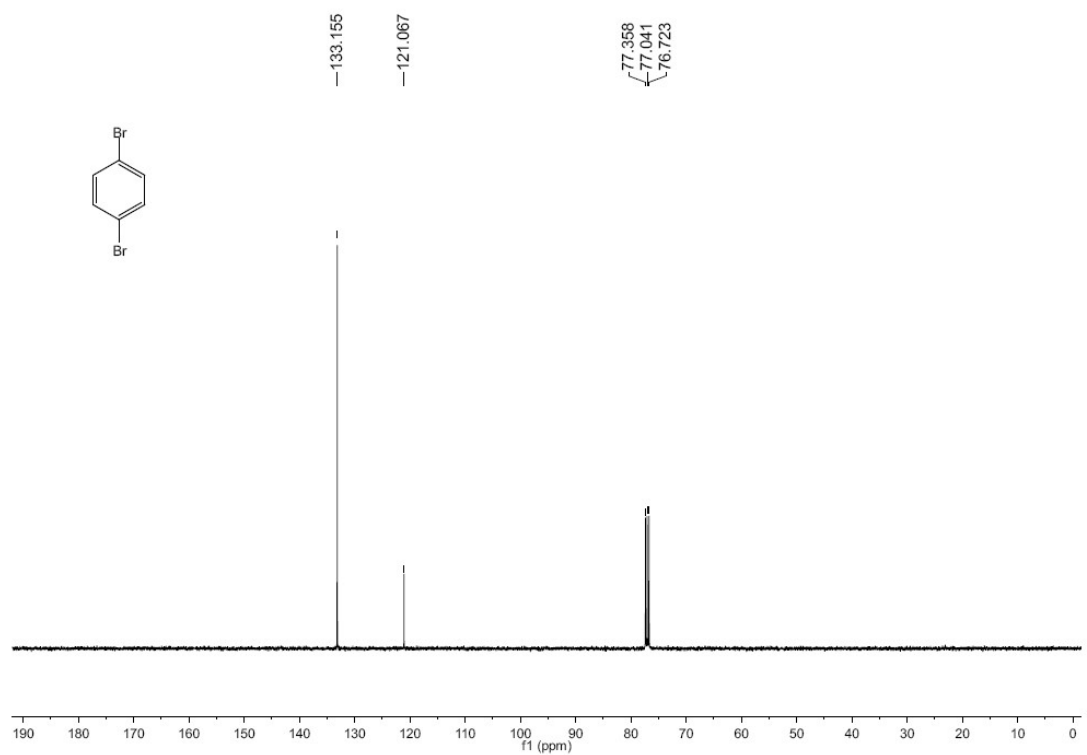
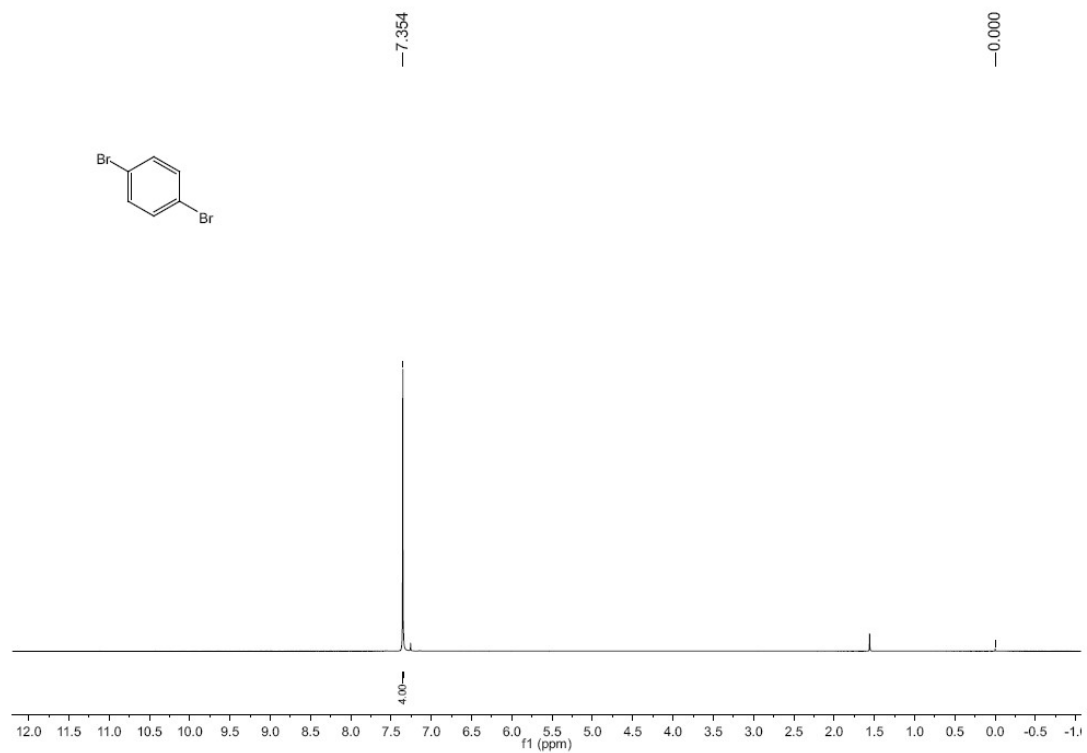
^1H NMR and ^{13}C NMR spectra of compounds **2c** (in CDCl_3)



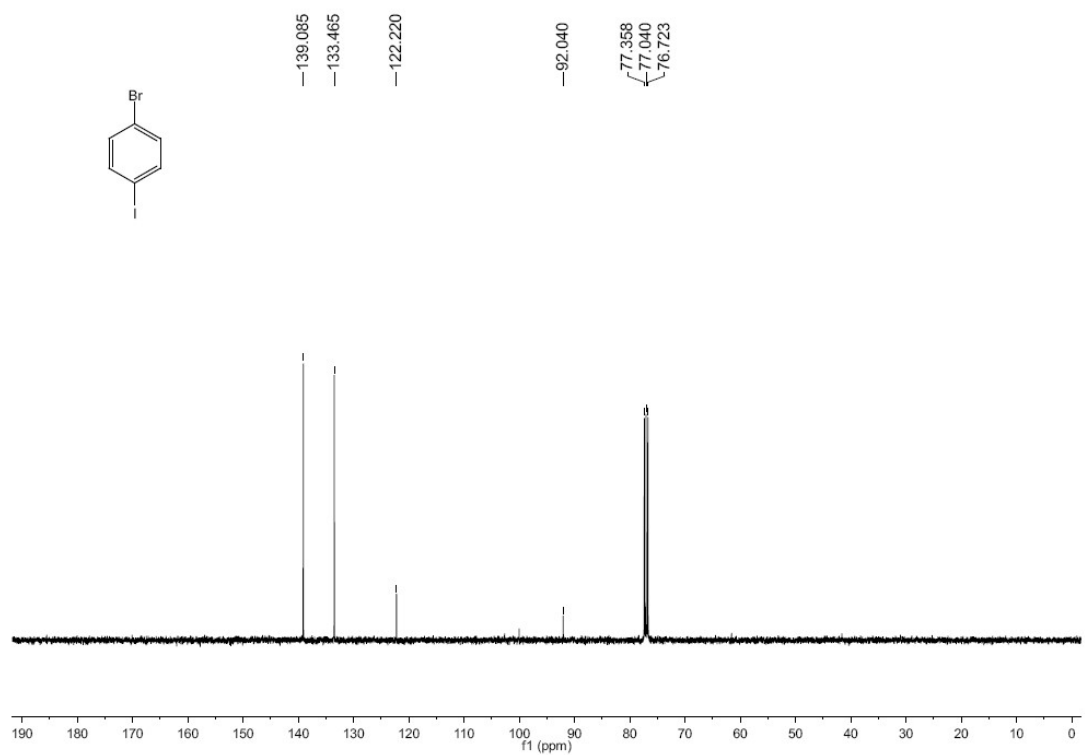
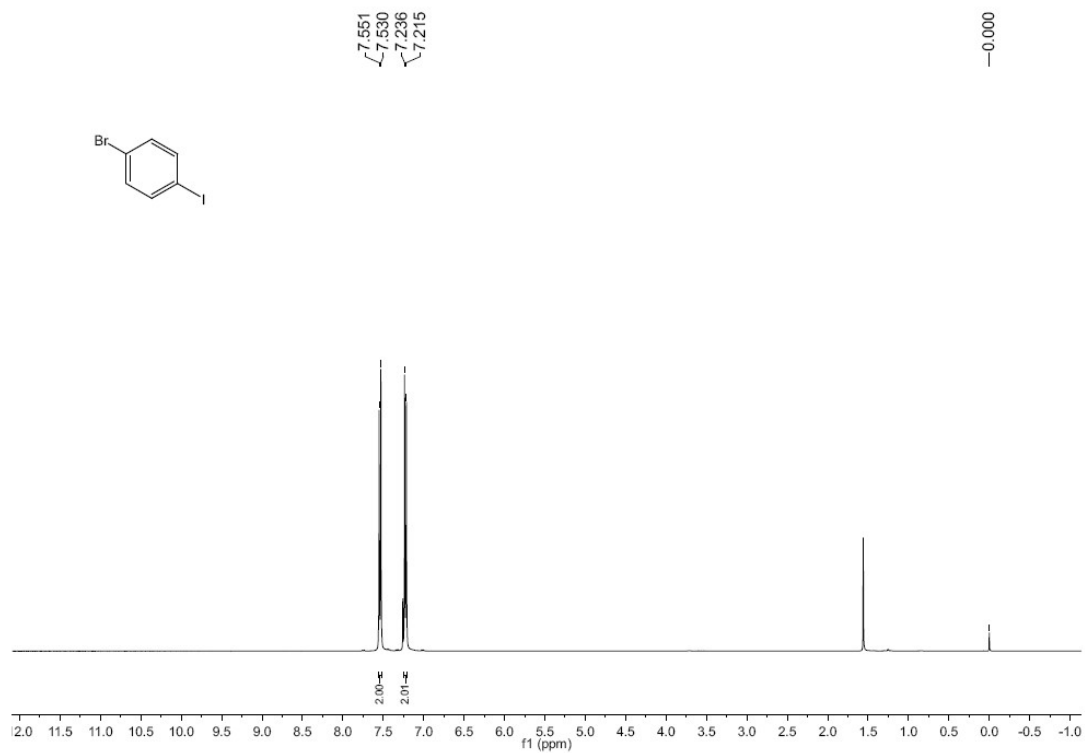
^1H NMR and ^{13}C NMR spectra of compounds **2d** (in CDCl_3)



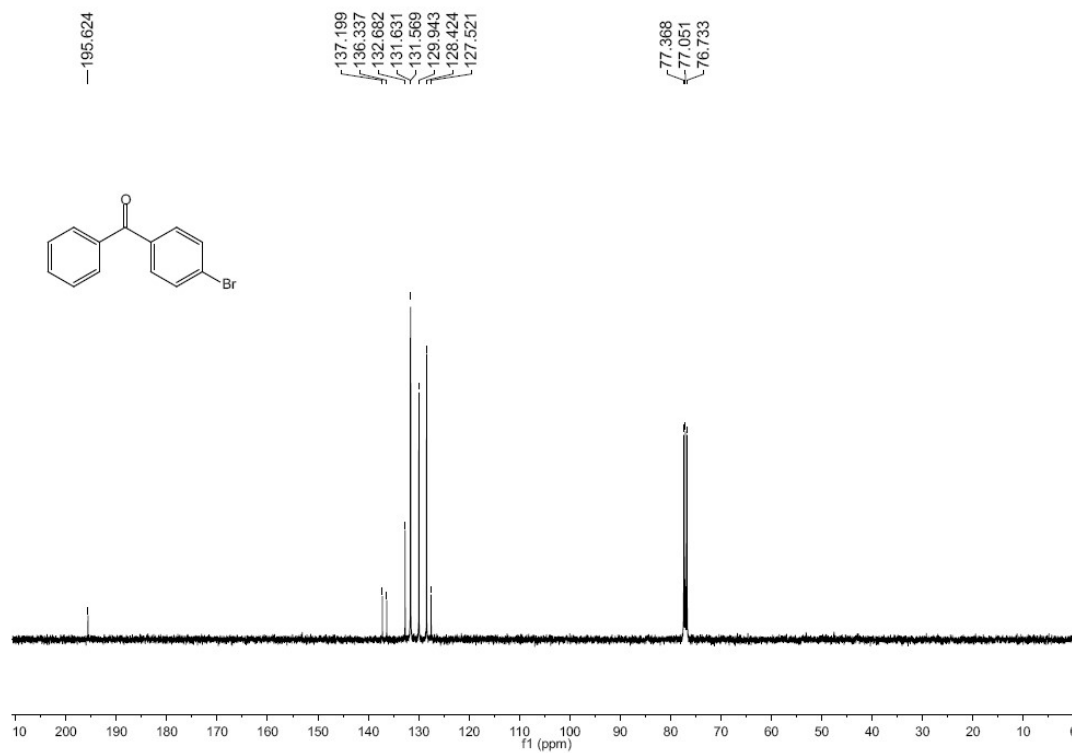
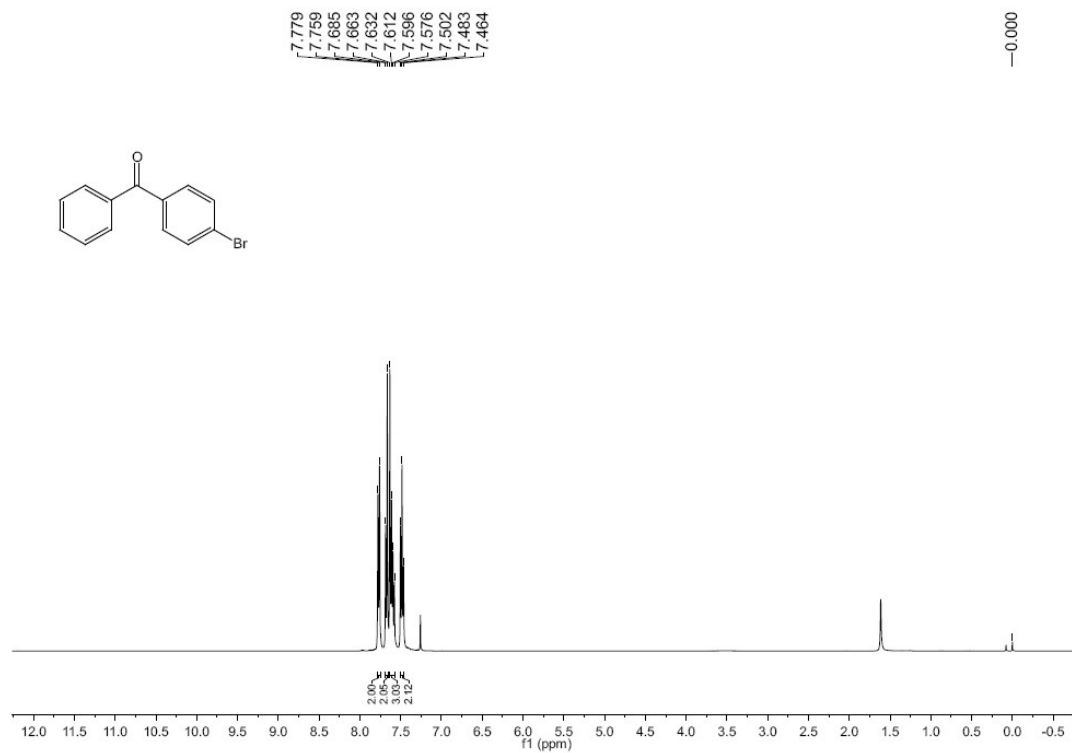
^1H NMR and ^{13}C NMR spectra of compounds **2e** (in CDCl_3)



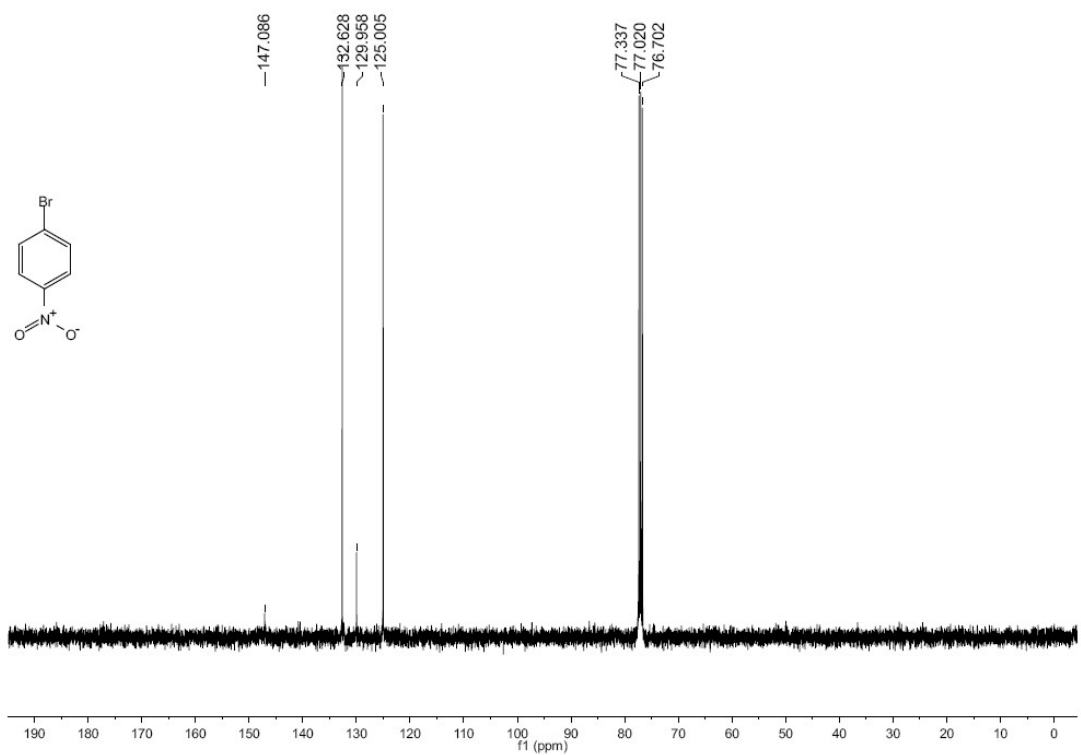
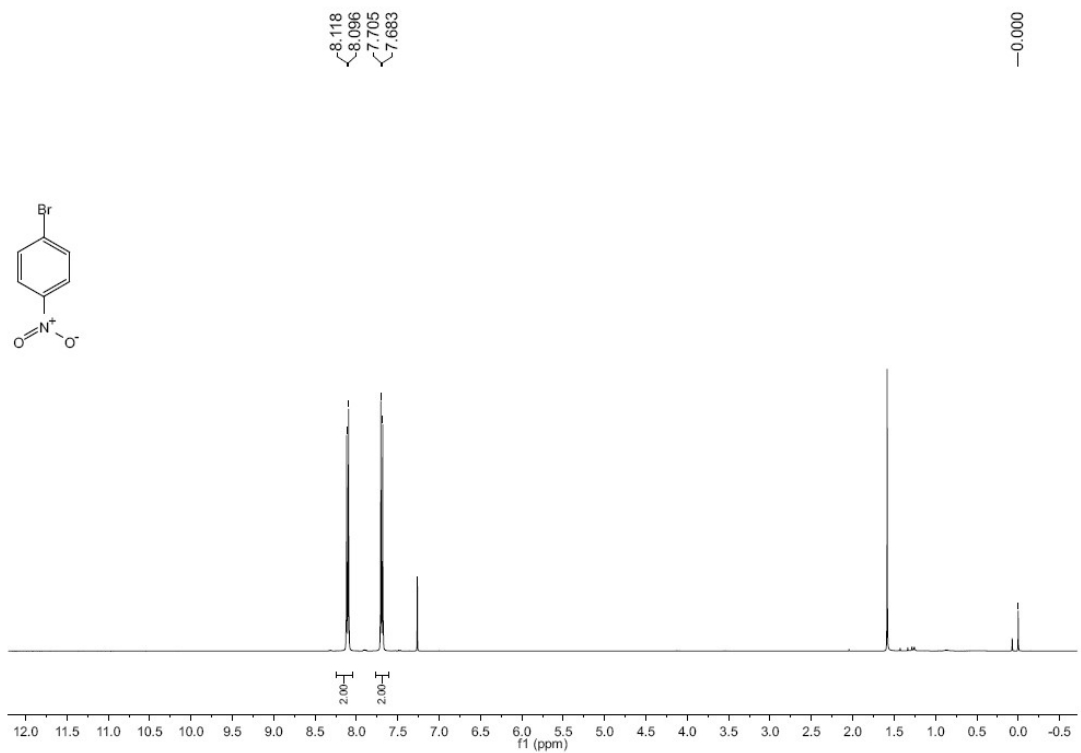
¹H NMR and ¹³C NMR spectra of compounds **2f** (in CDCl₃)



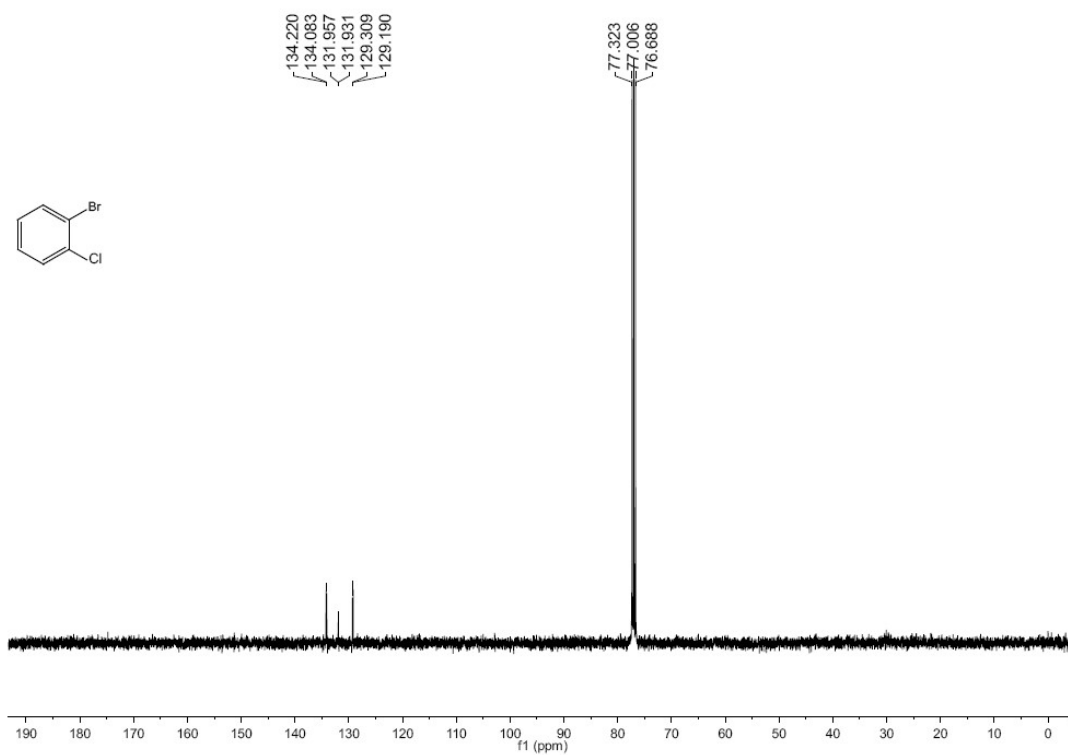
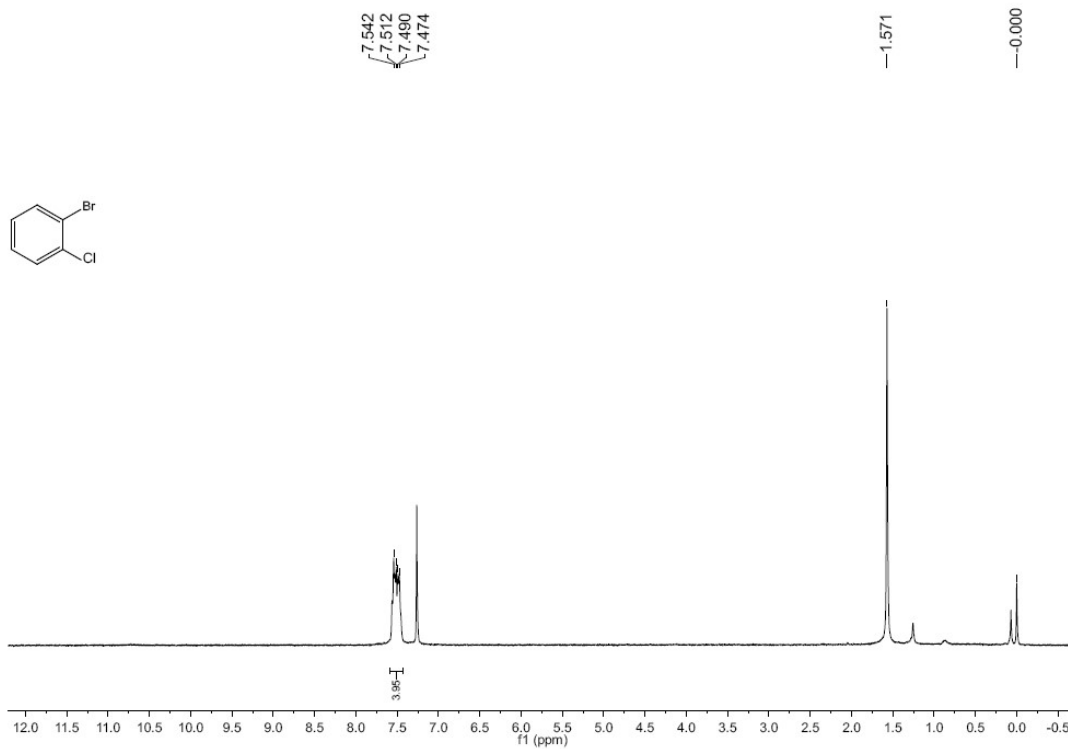
^1H NMR and ^{13}C NMR spectra of compounds **2g** (in CDCl_3)



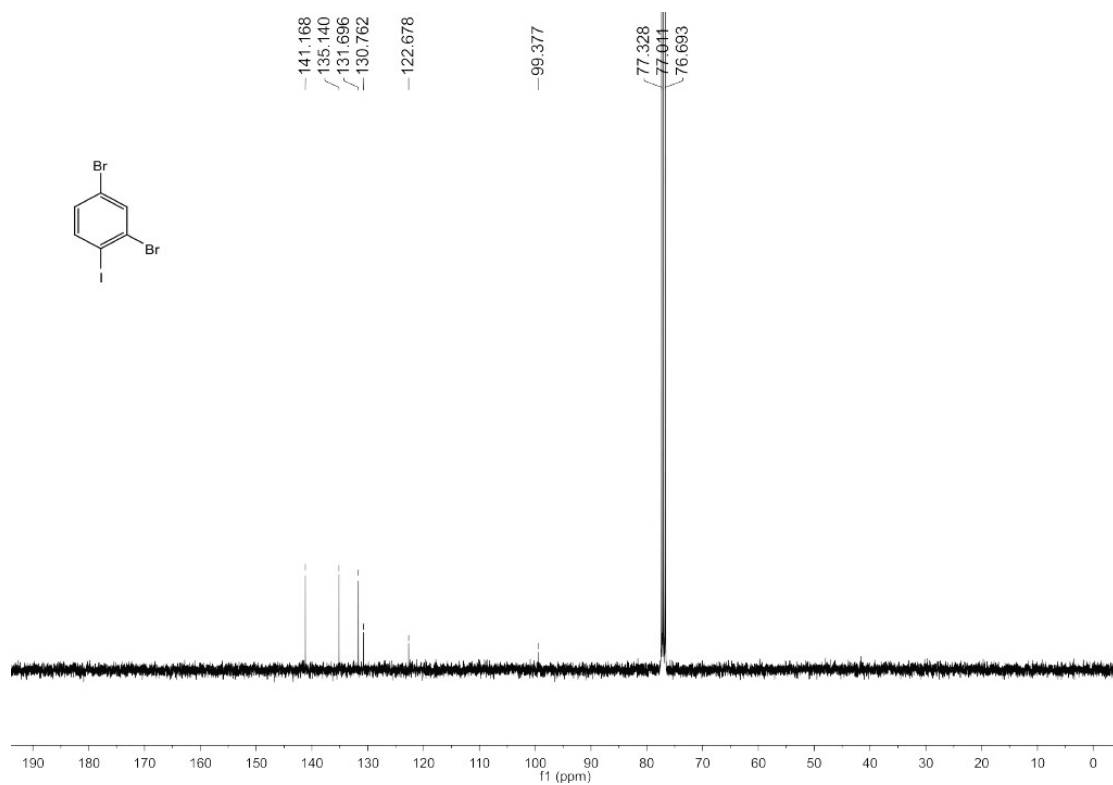
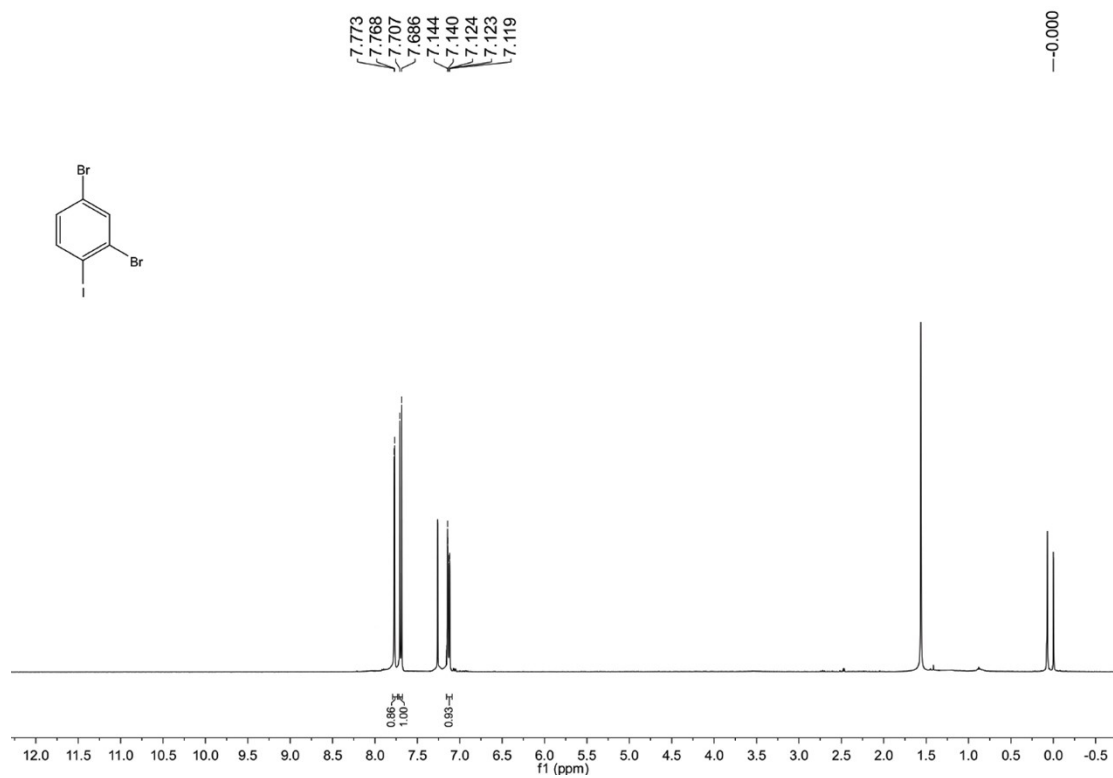
^1H NMR and ^{13}C NMR spectra of compounds **2h** (in CDCl_3)



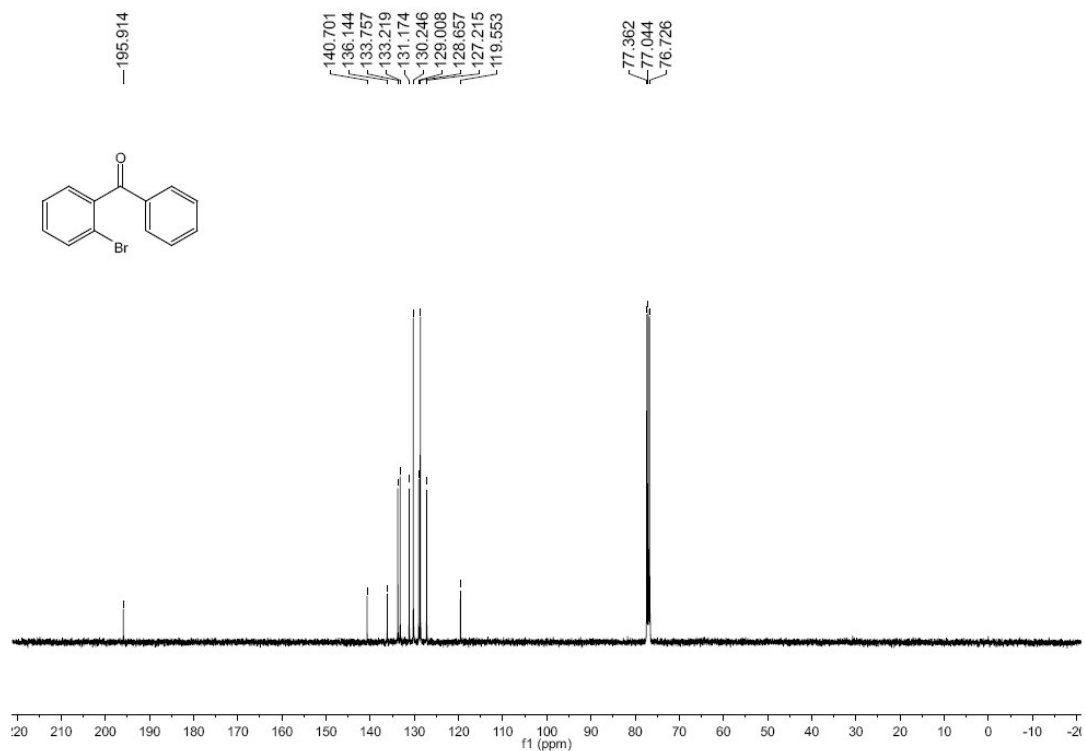
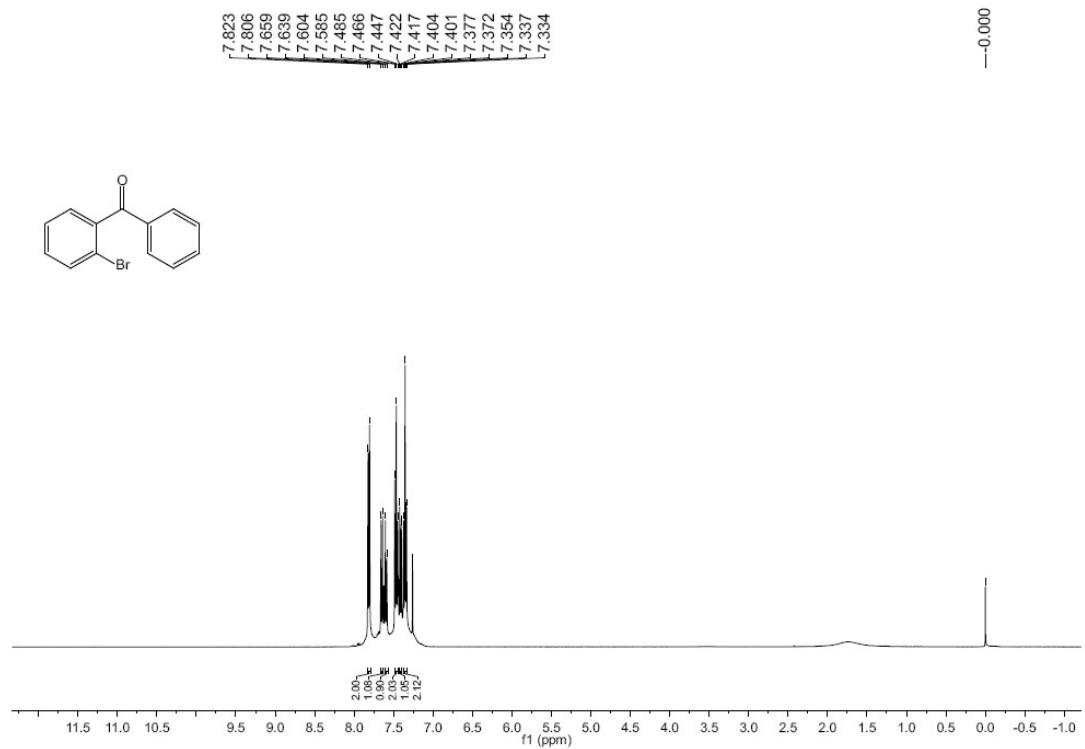
^1H NMR and ^{13}C NMR spectra of compounds **2i** (in CDCl_3)



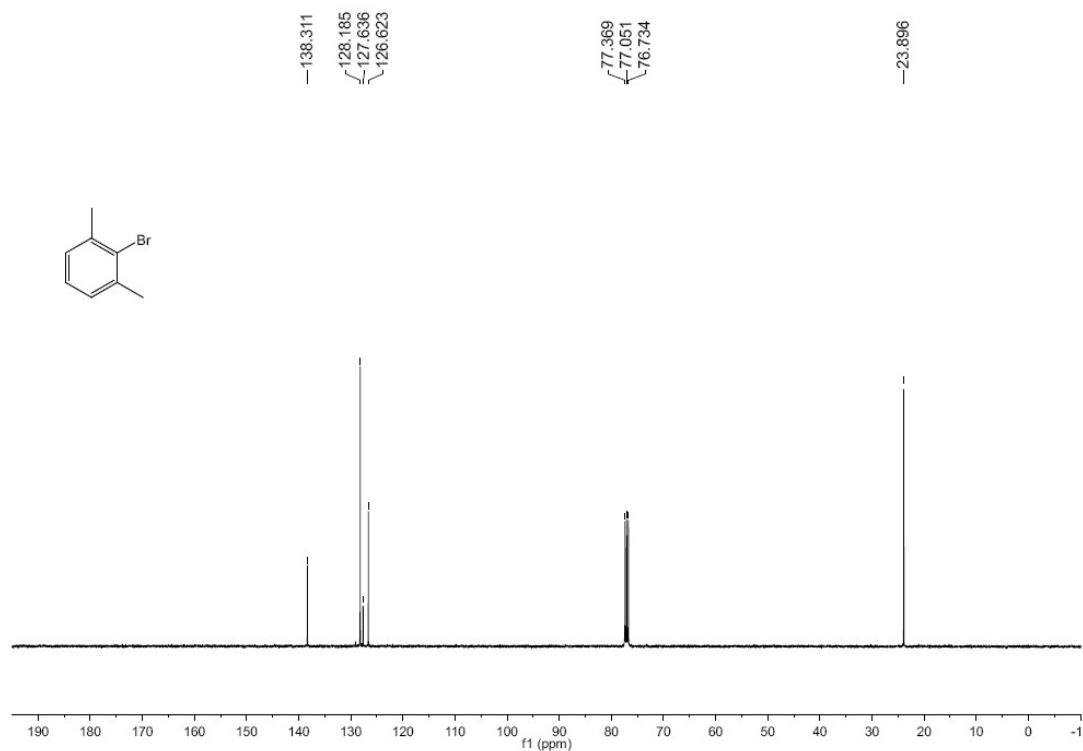
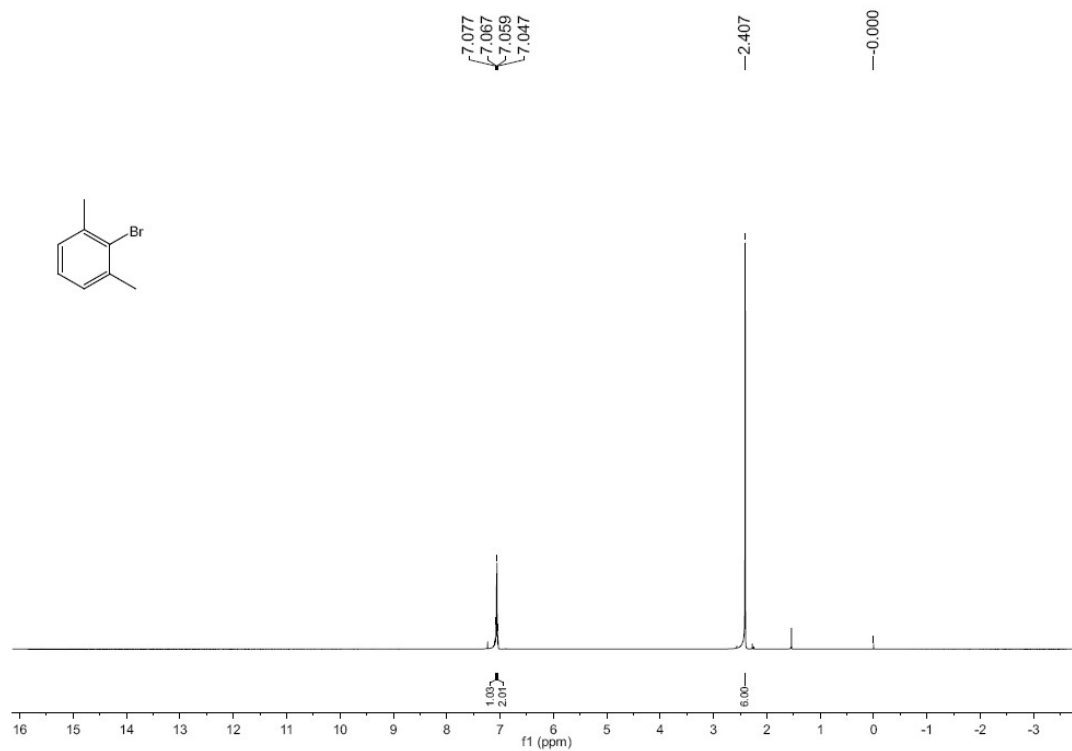
^1H NMR and ^{13}C NMR spectra of compounds **2j** (in CDCl_3)



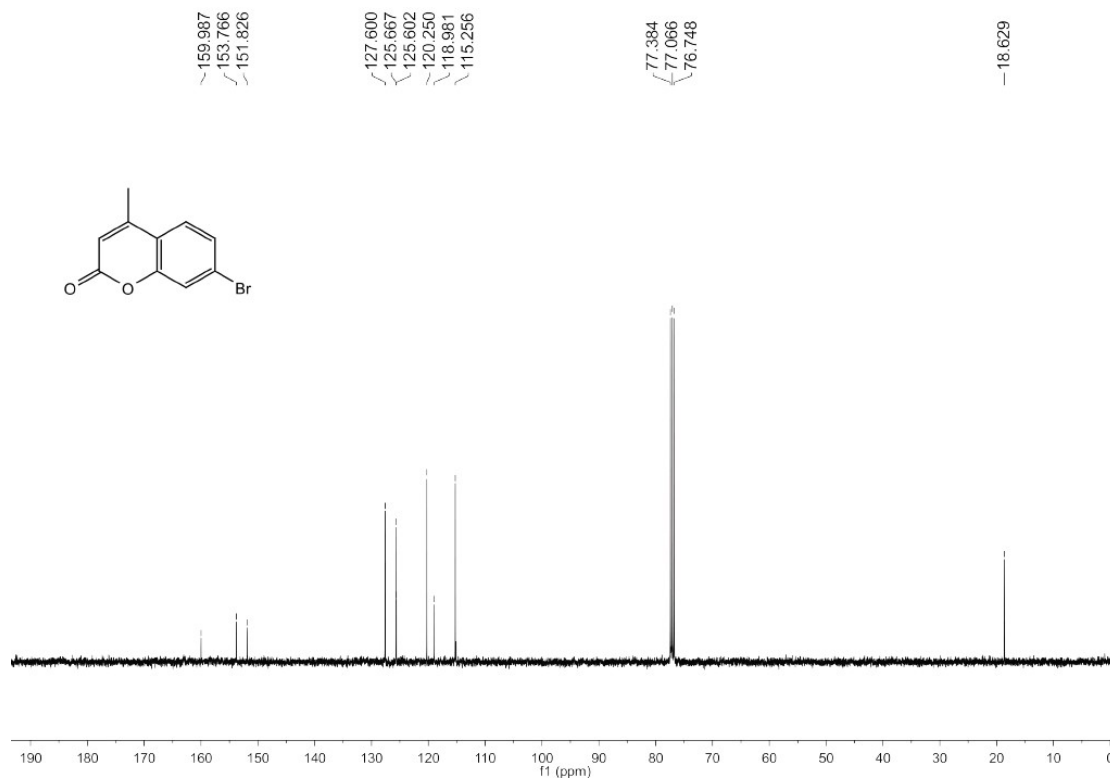
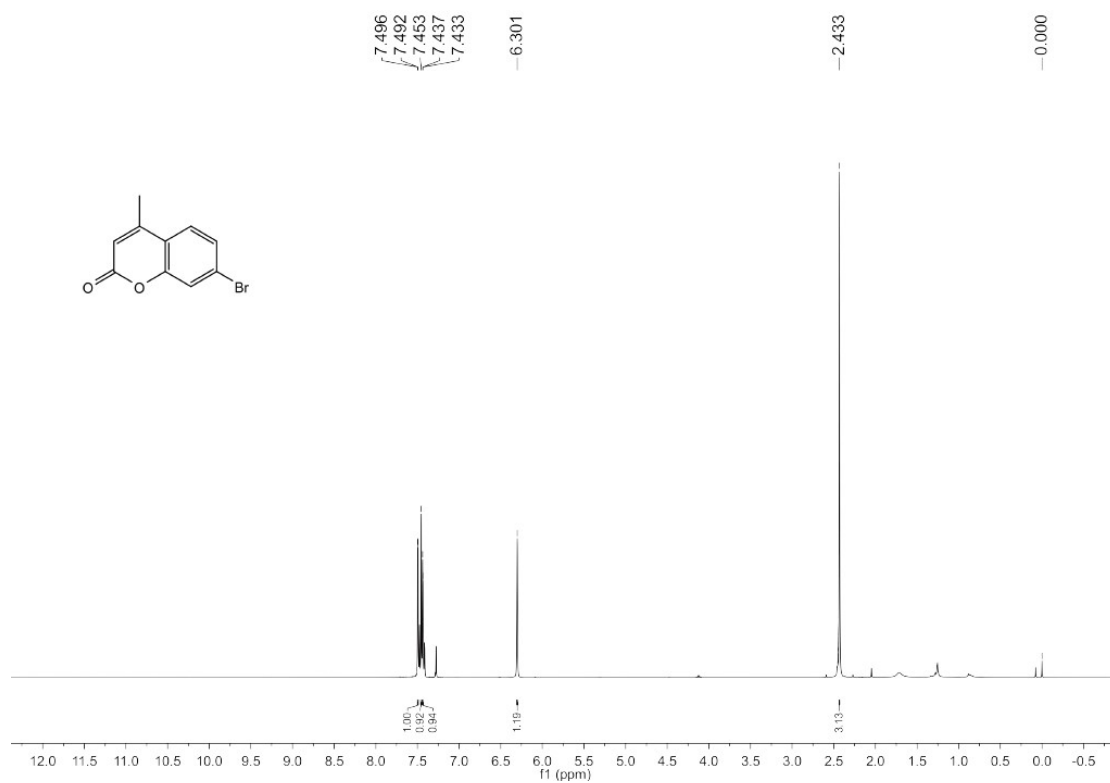
^1H NMR and ^{13}C NMR spectra of compounds **2k** (in CDCl_3)



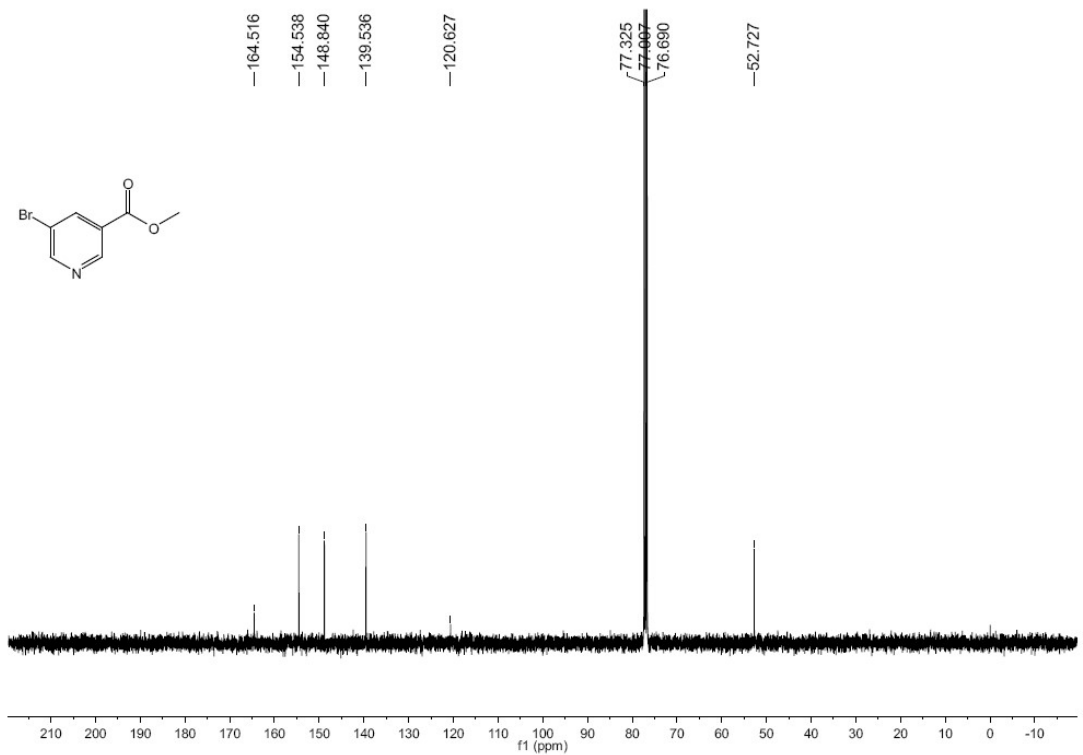
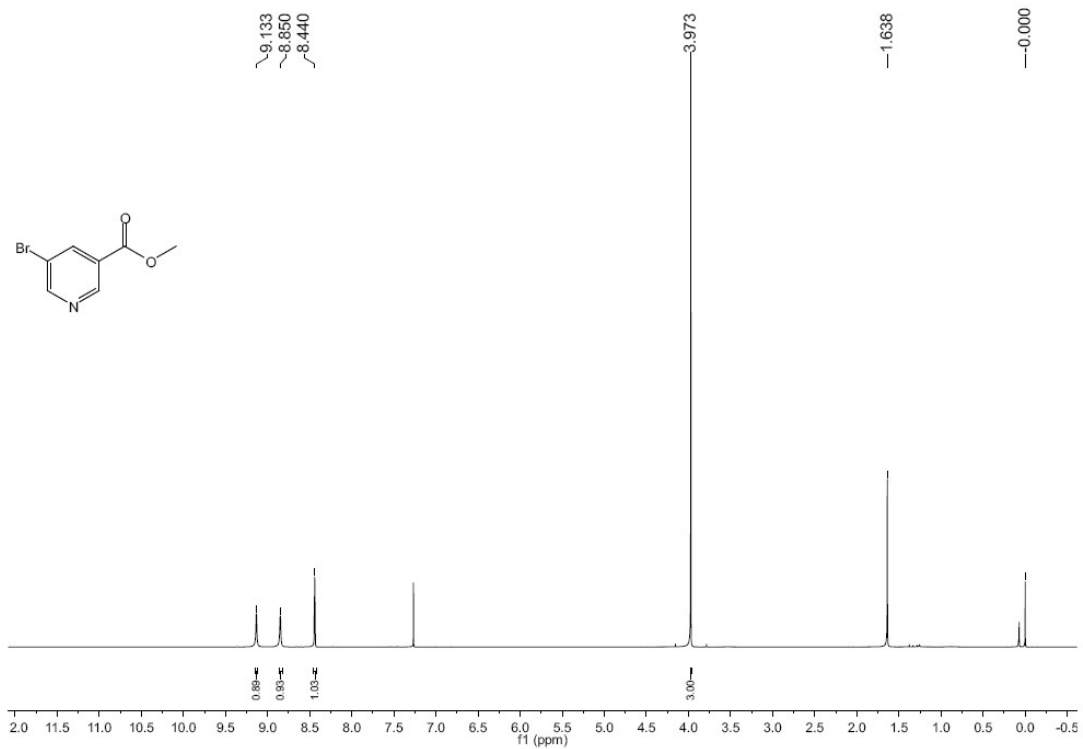
^1H NMR and ^{13}C NMR spectra of compounds **21** (in CDCl_3)



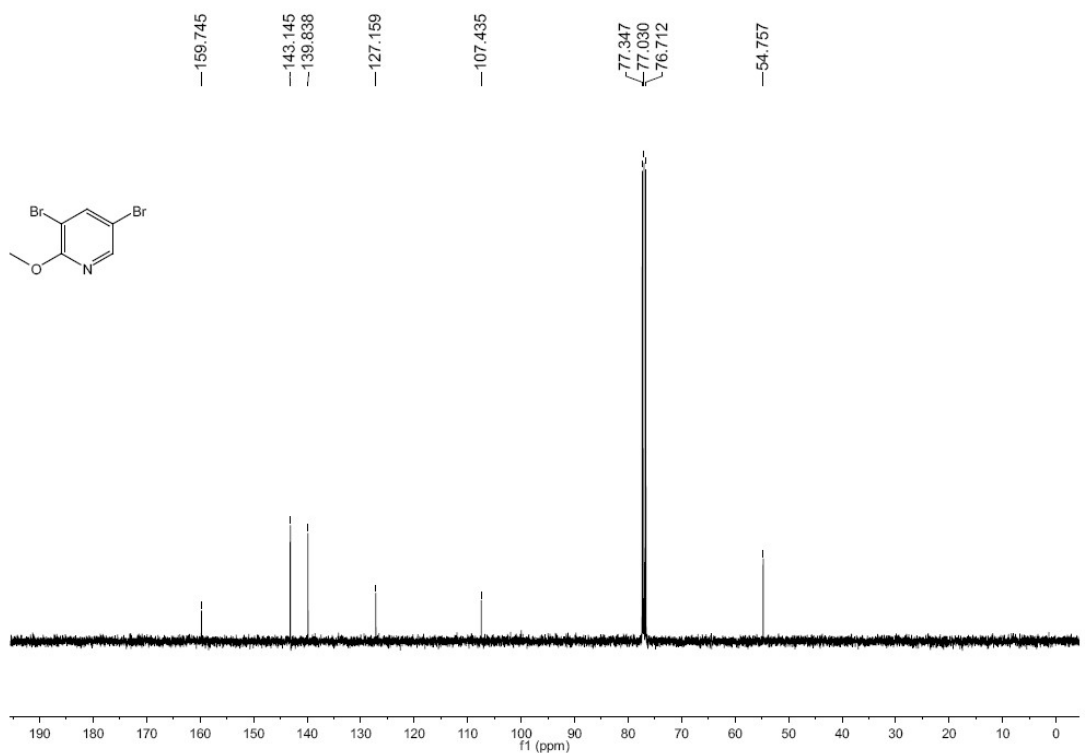
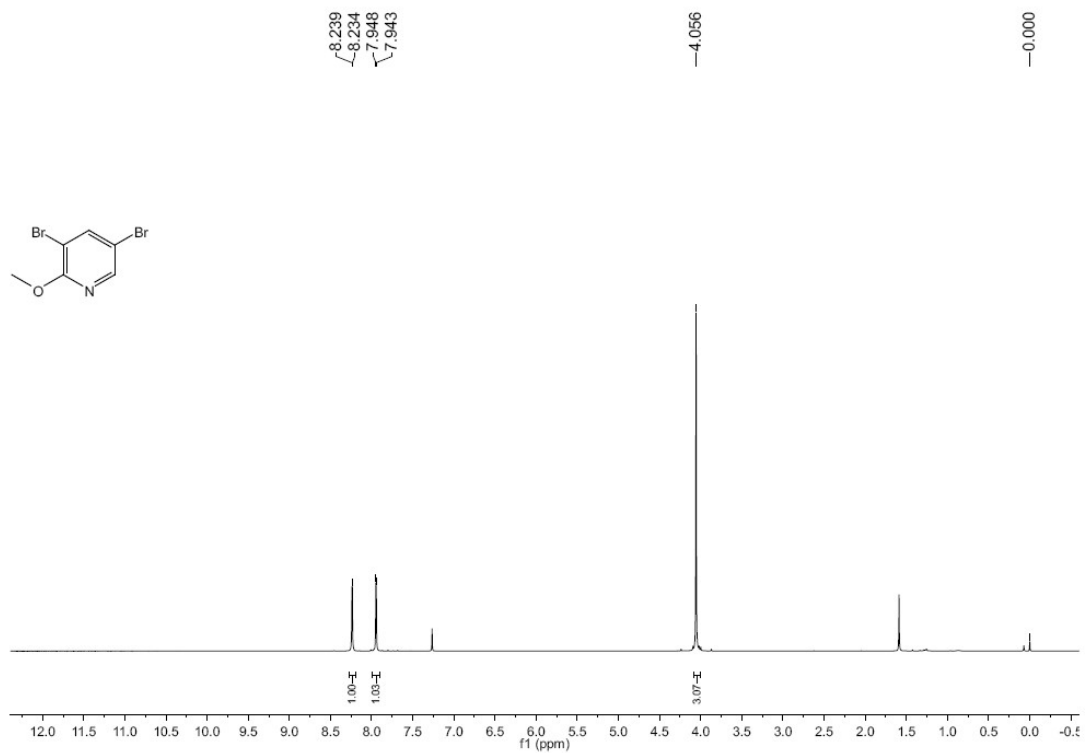
^1H NMR and ^{13}C NMR spectra of compounds **2m** (in CDCl_3)



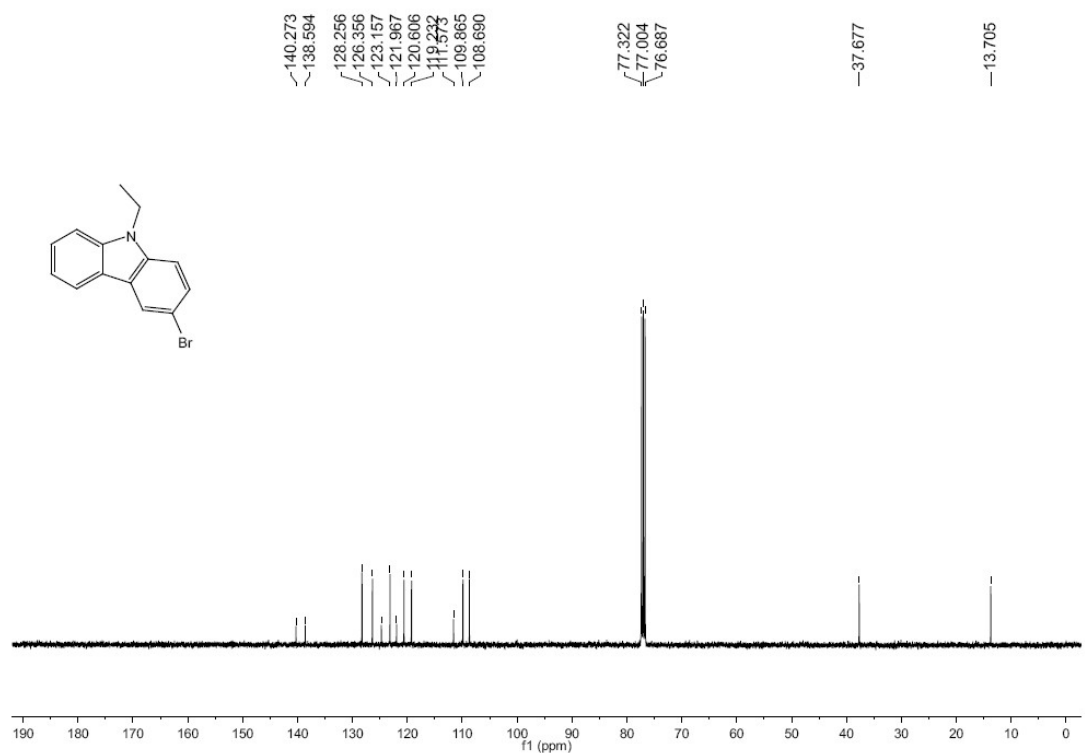
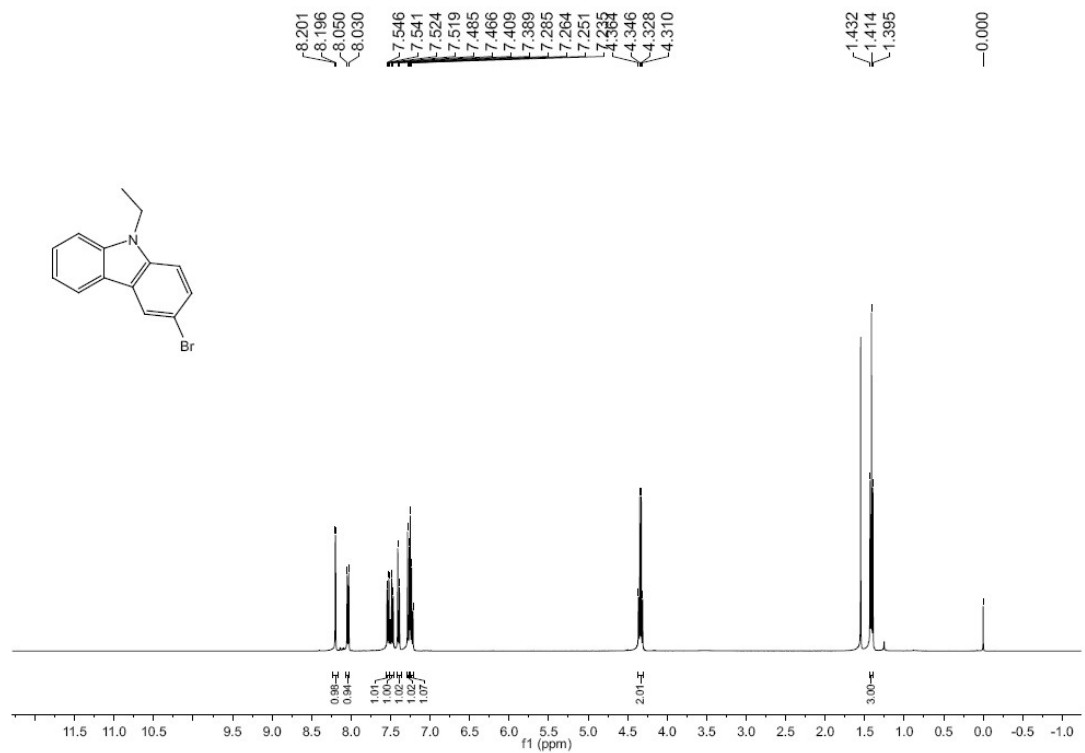
¹H NMR and ¹³C NMR spectra of compounds **2n** (in CDCl₃)



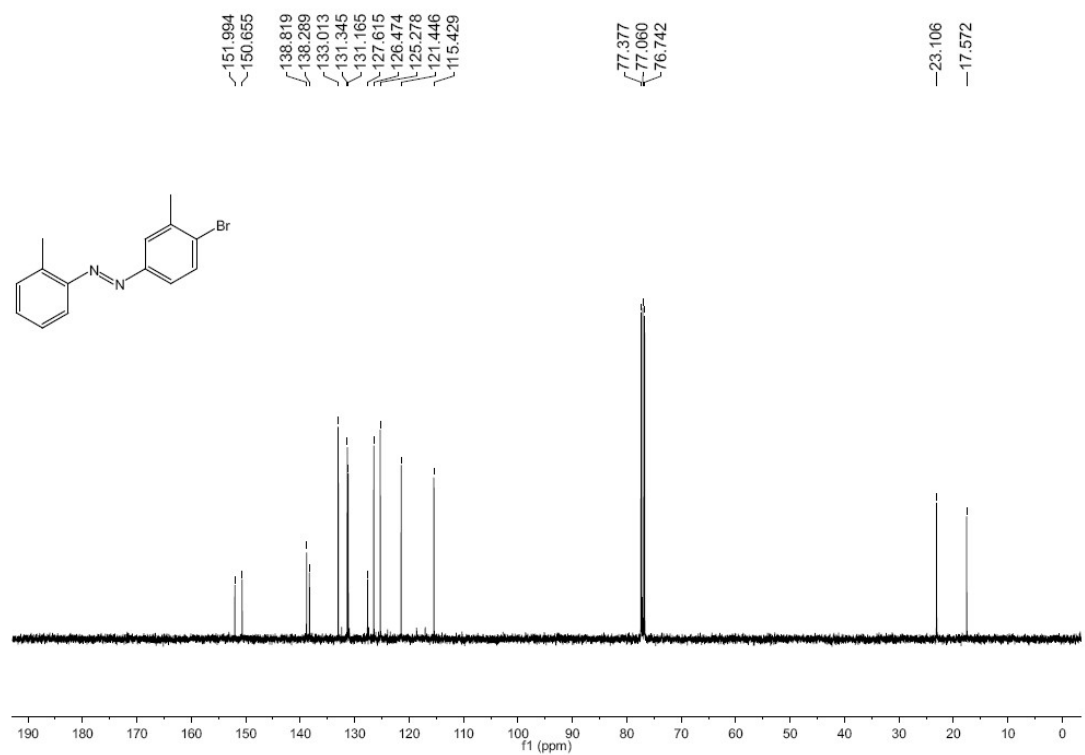
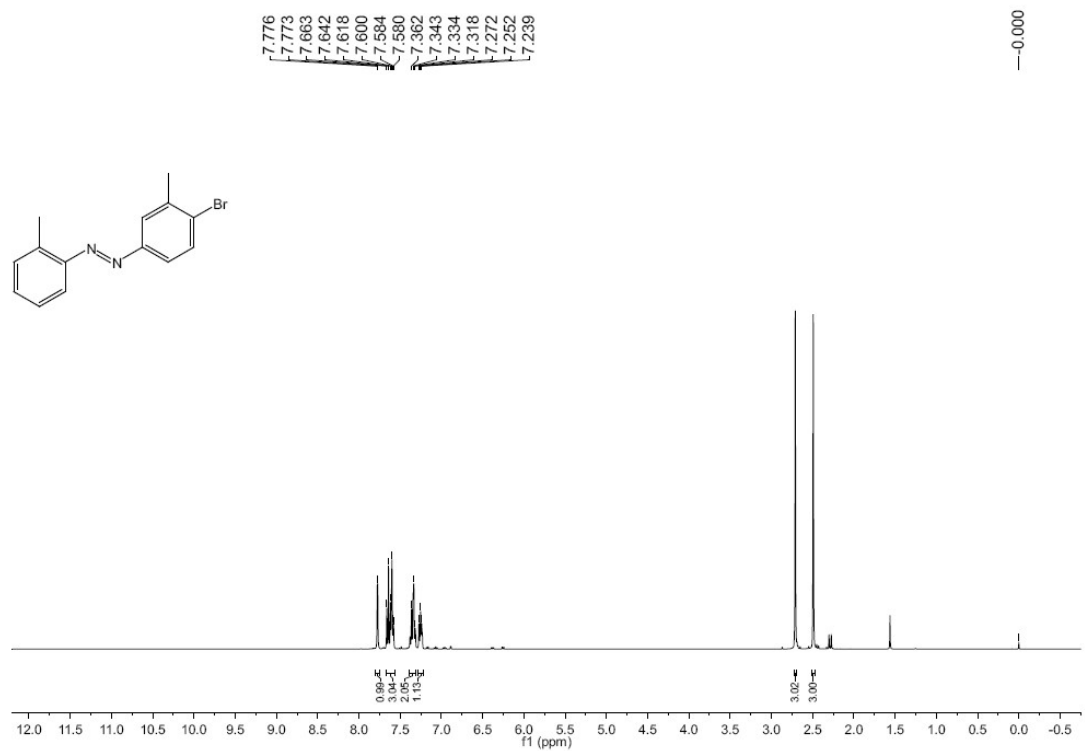
^1H NMR and ^{13}C NMR spectra of compounds **2o** (in CDCl_3)



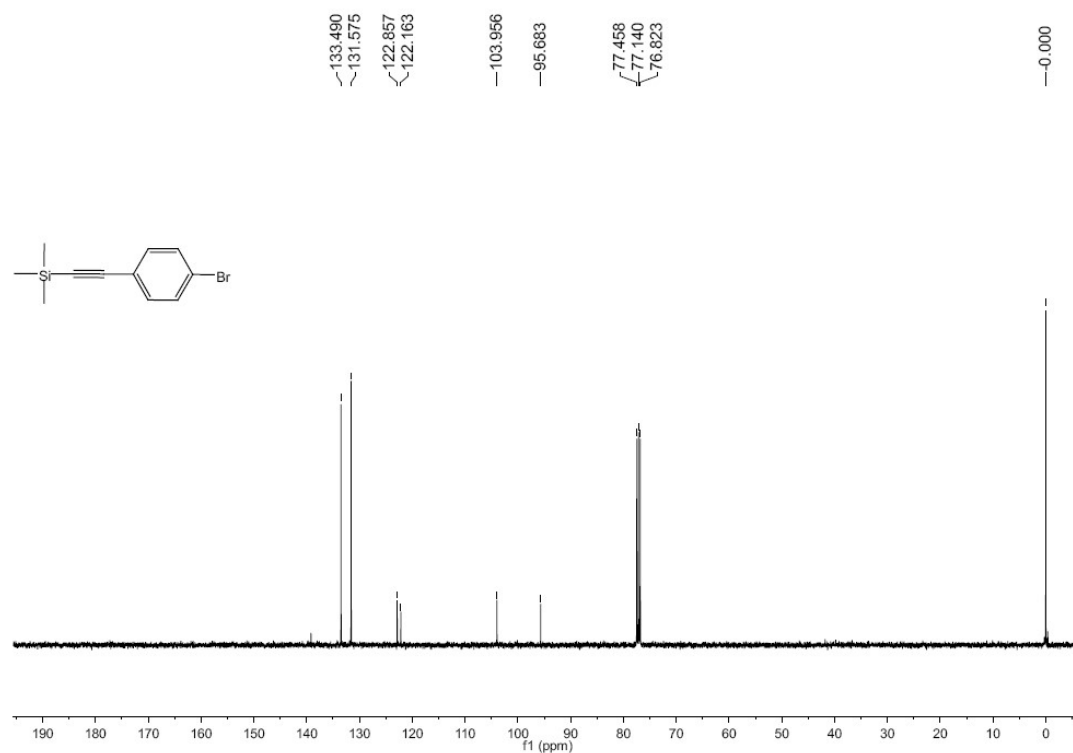
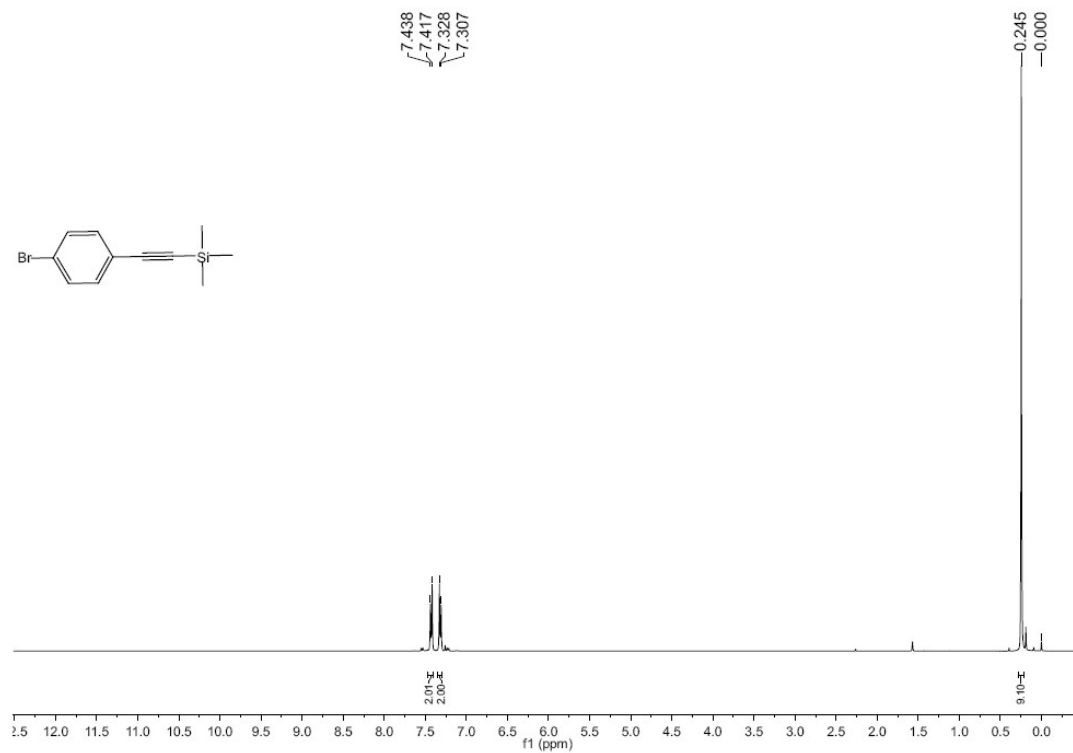
^1H NMR and ^{13}C NMR spectra of compounds **2p** (in CDCl_3)



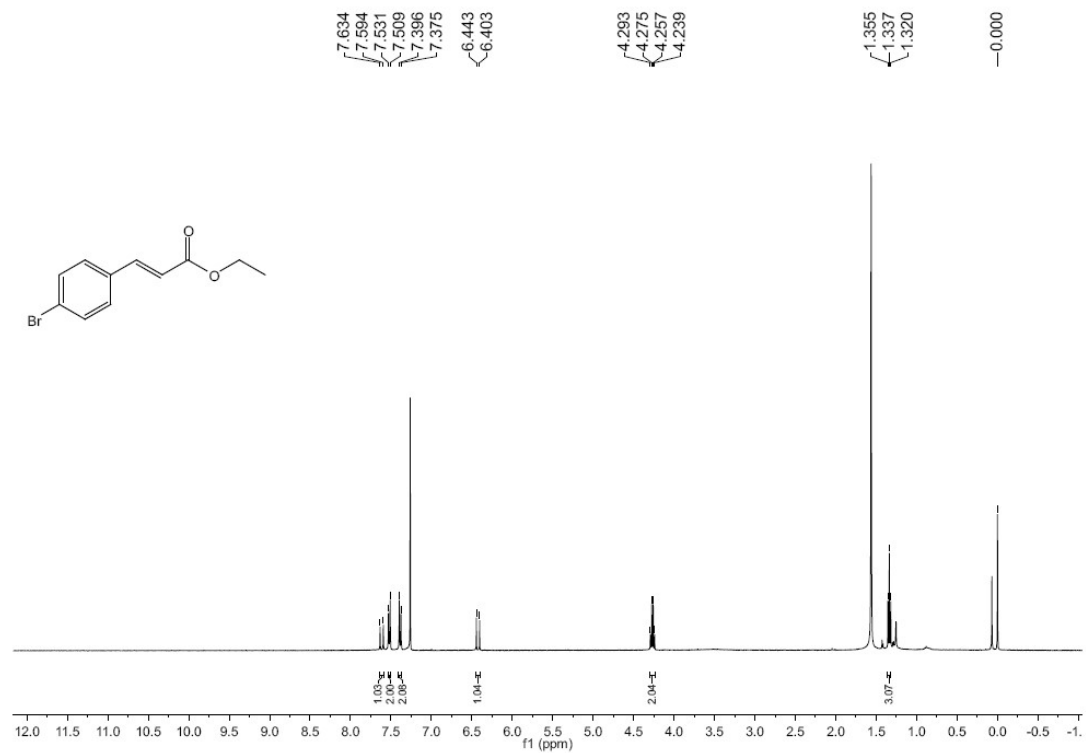
¹H NMR and ¹³C NMR spectra of compounds **2q** (in CDCl₃)



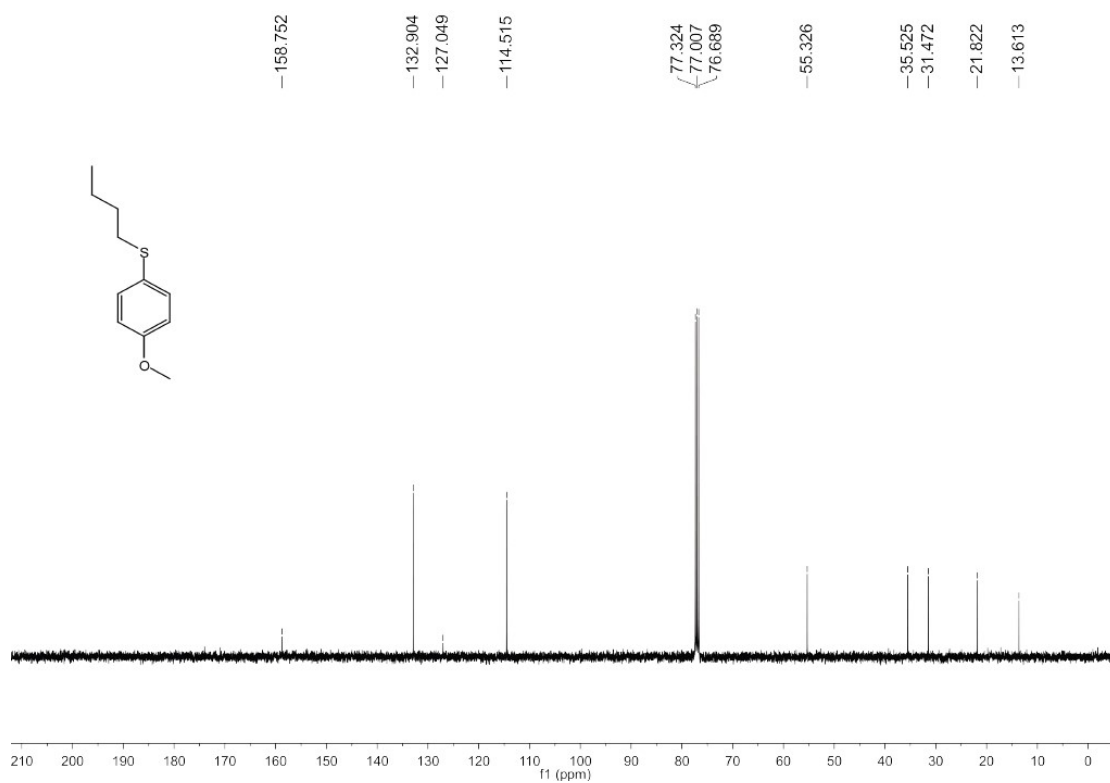
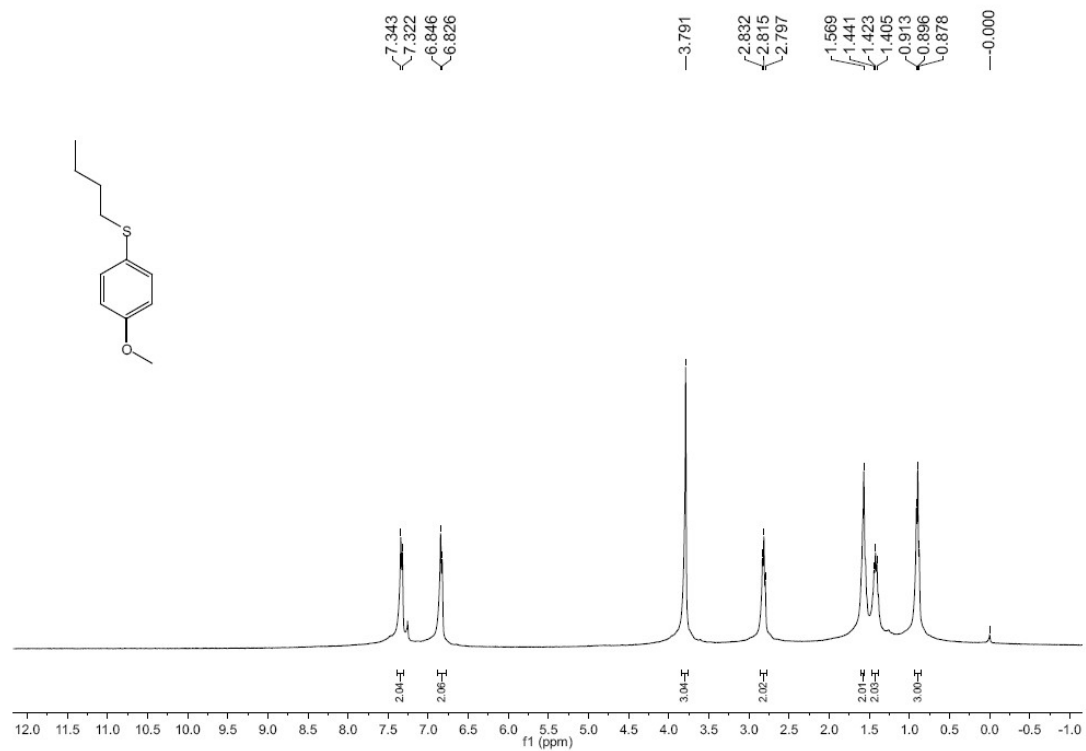
^1H NMR and ^{13}C NMR spectra of compounds **2r** (in CDCl_3)



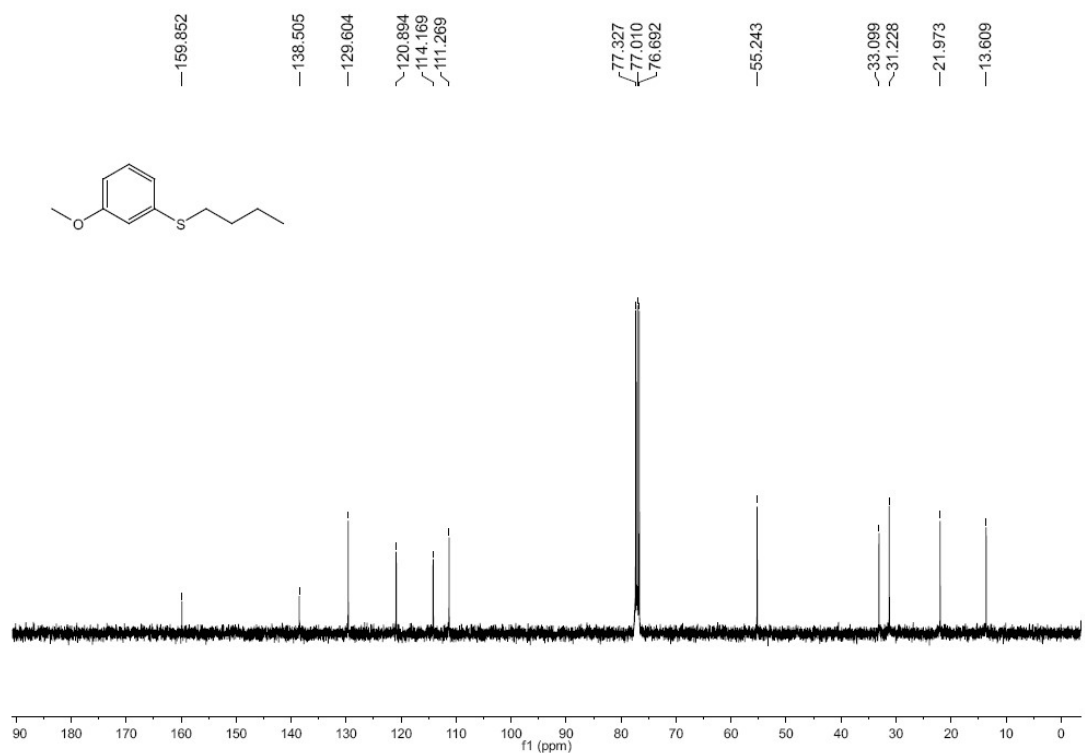
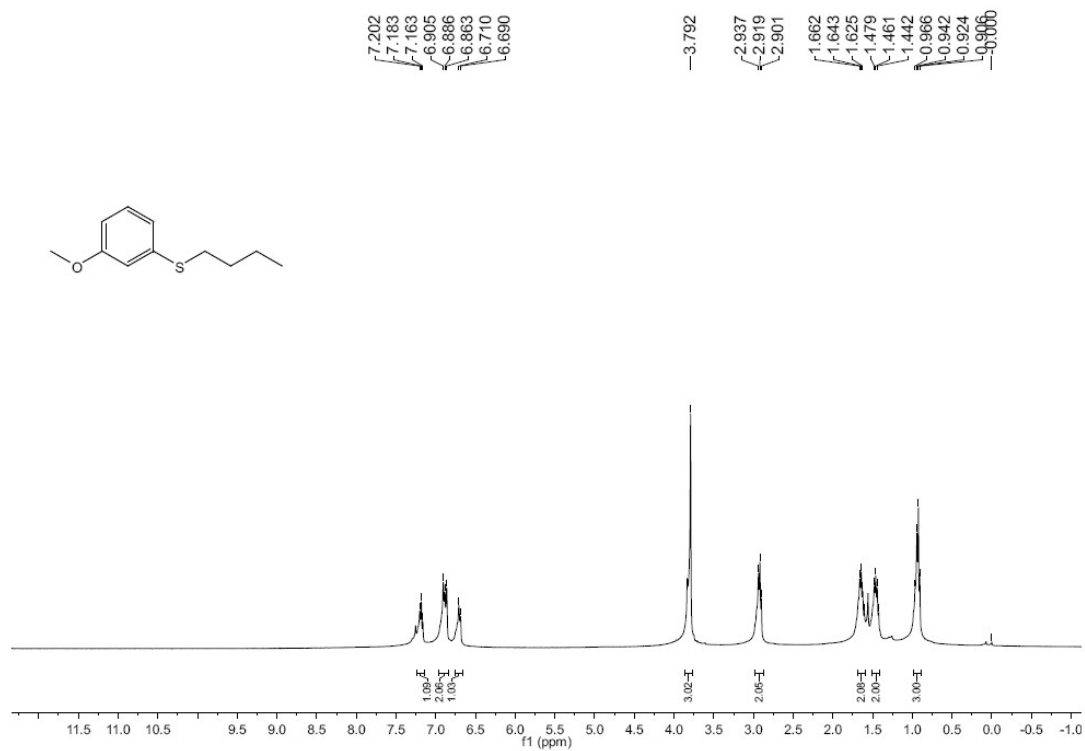
¹H NMR and ¹³C NMR spectra of compounds **2s** (in CDCl₃)



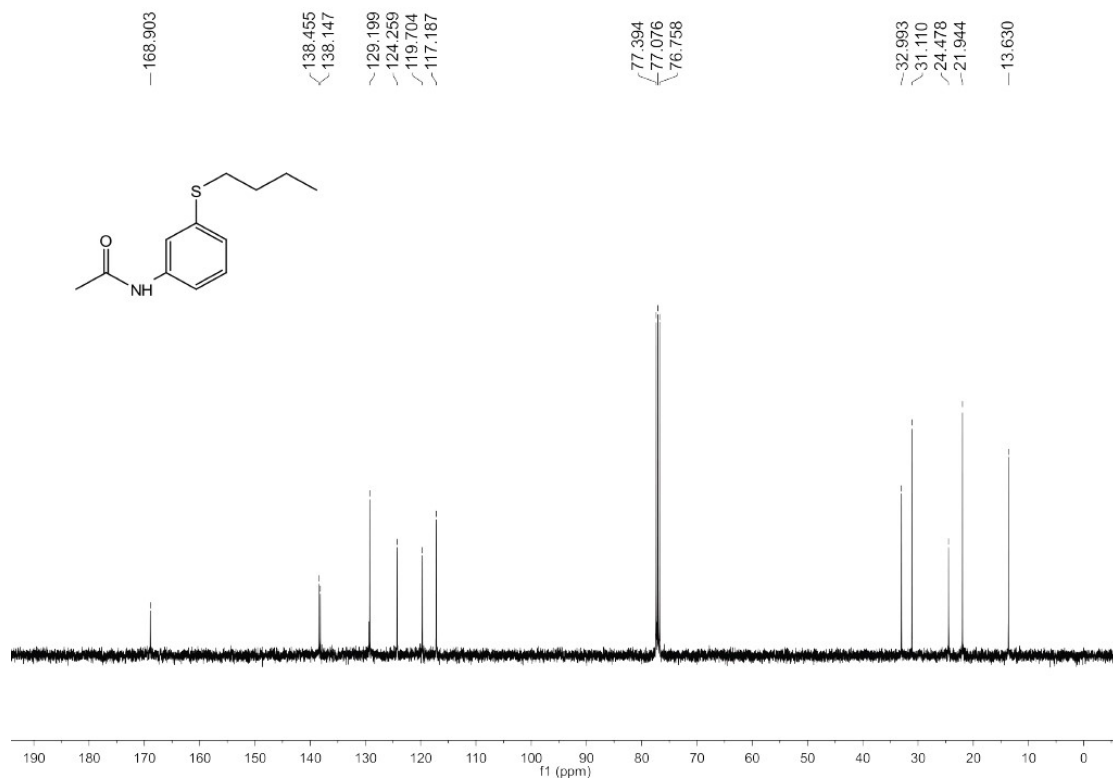
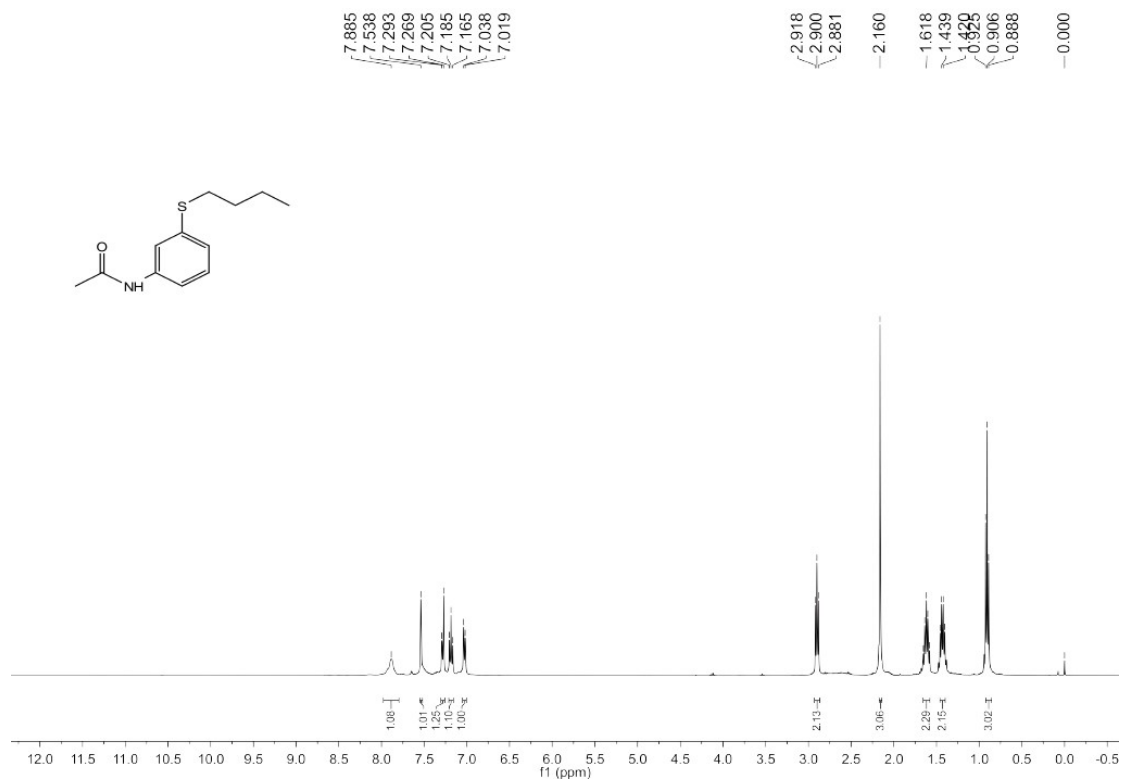
¹H NMR and ¹³C NMR spectra of compounds **2t** (in CDCl₃)



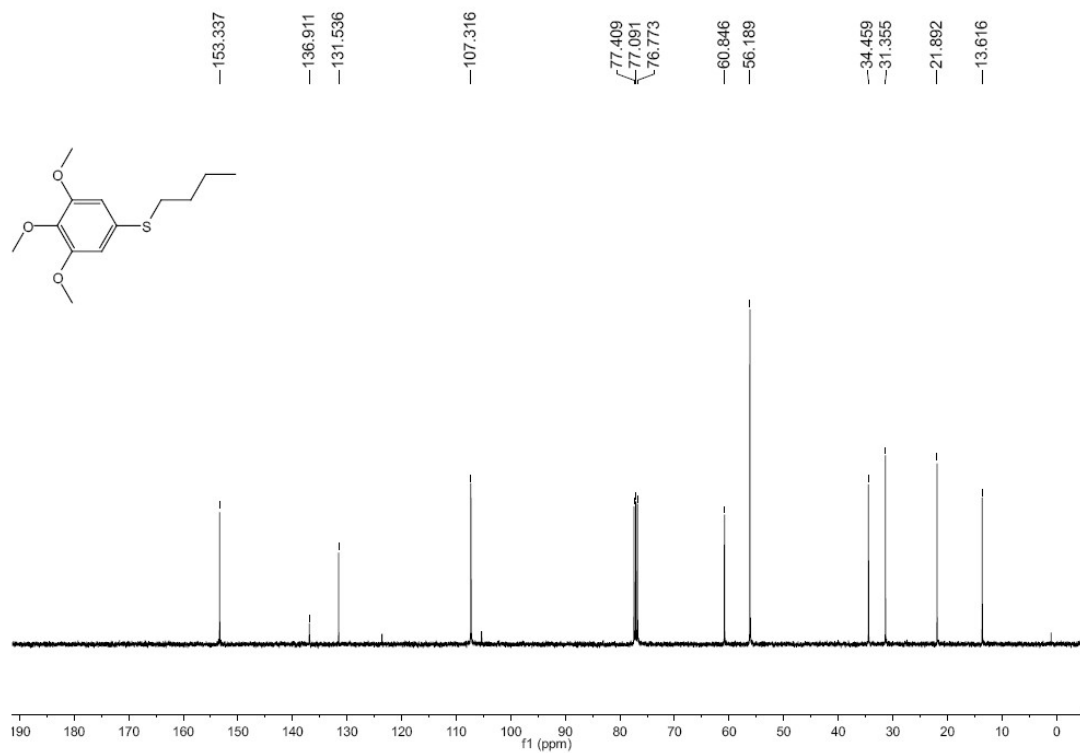
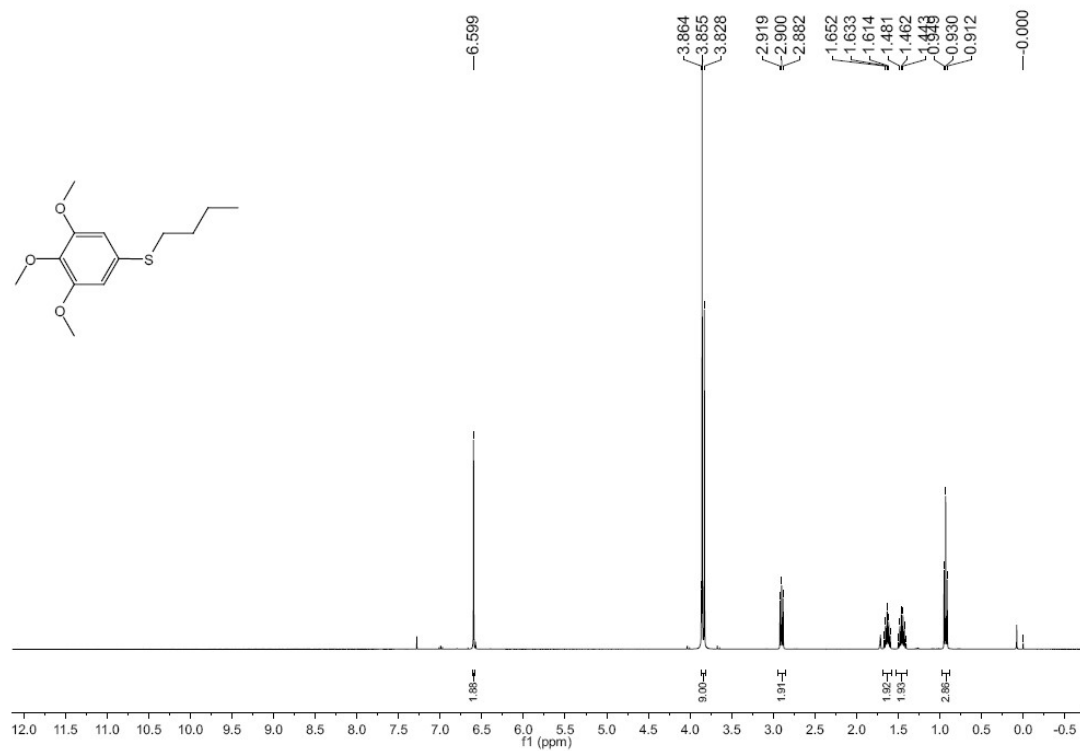
¹H NMR and ¹³C NMR spectra of compounds **4a** (in CDCl₃)



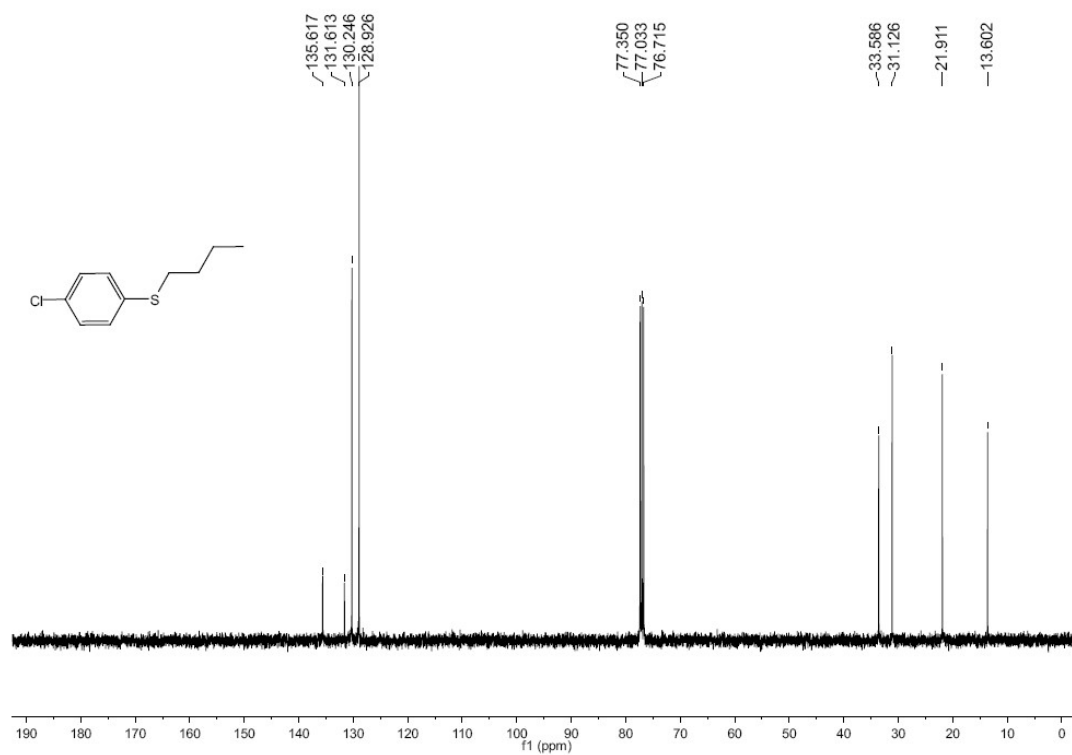
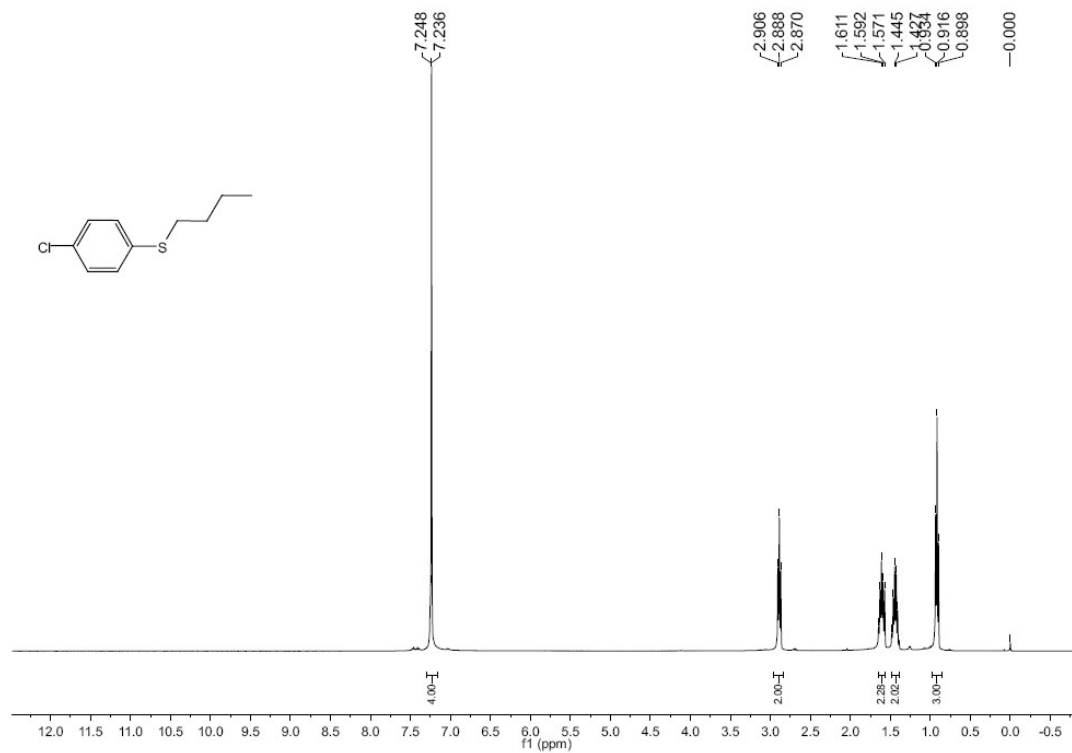
^1H NMR and ^{13}C NMR spectra of compounds **4b** (in CDCl_3)



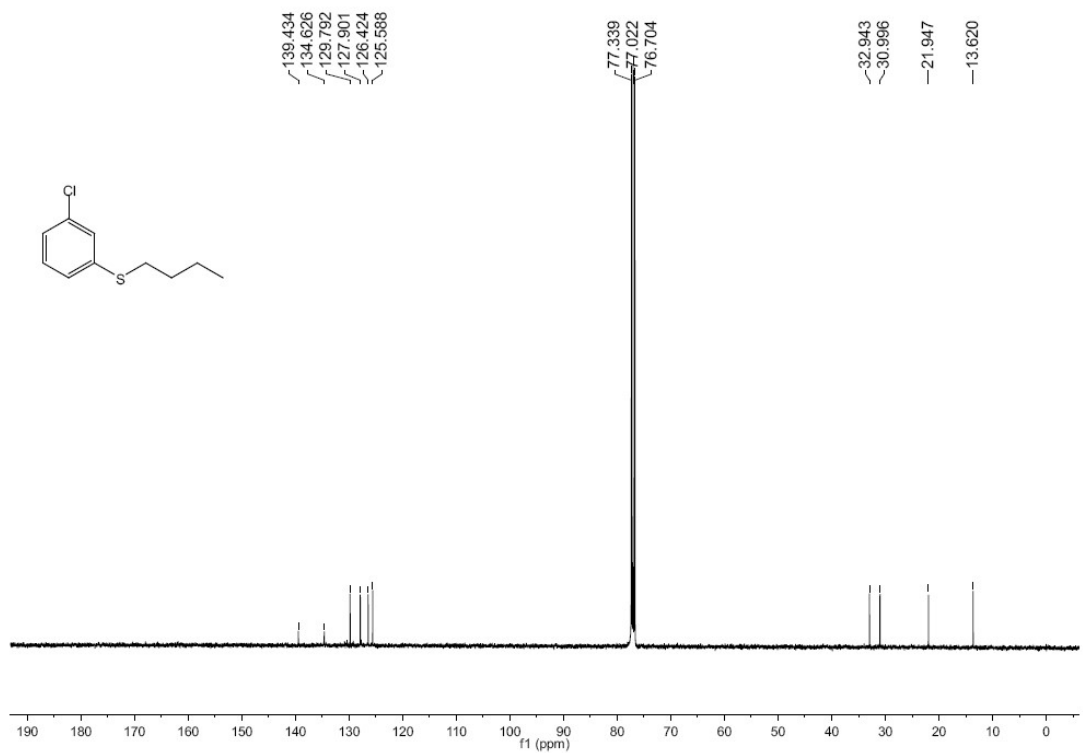
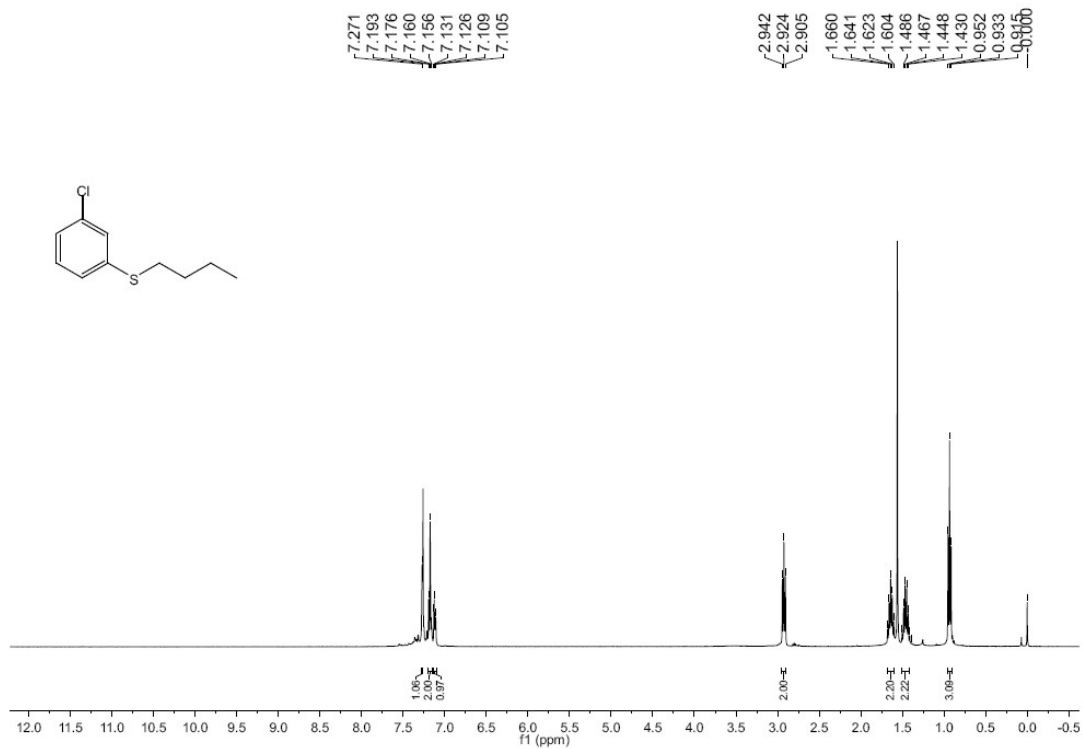
¹H NMR and ¹³C NMR spectra of compounds **4c** (in CDCl₃)



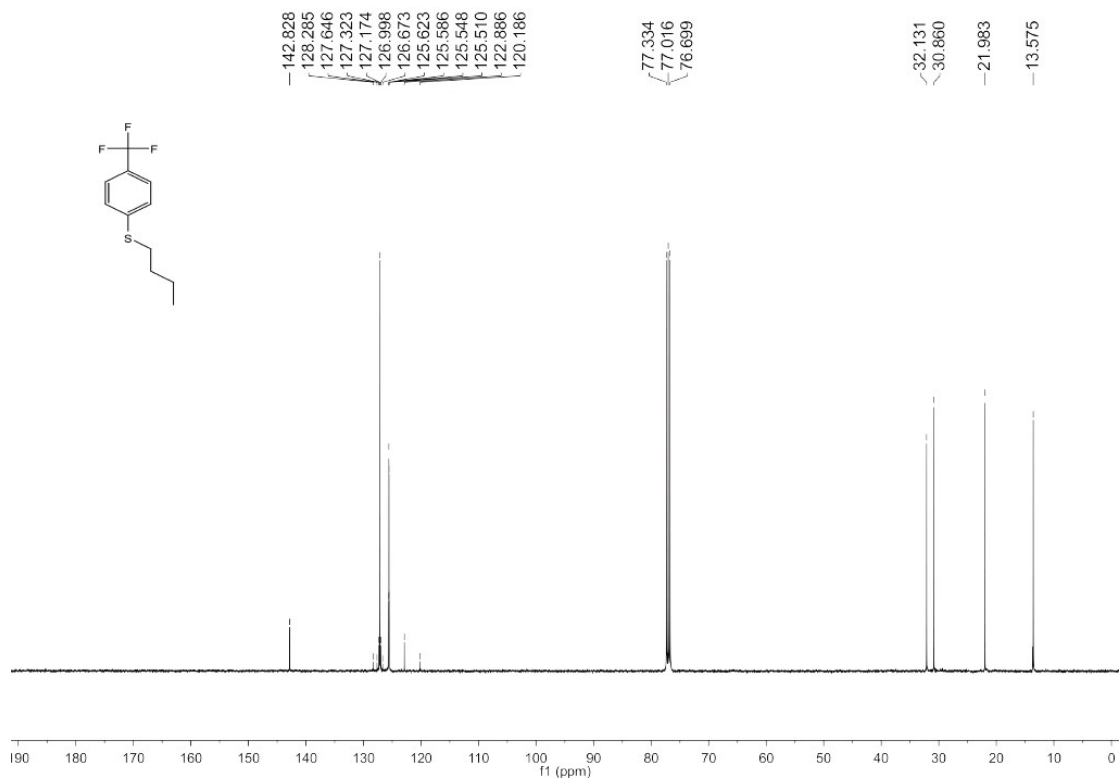
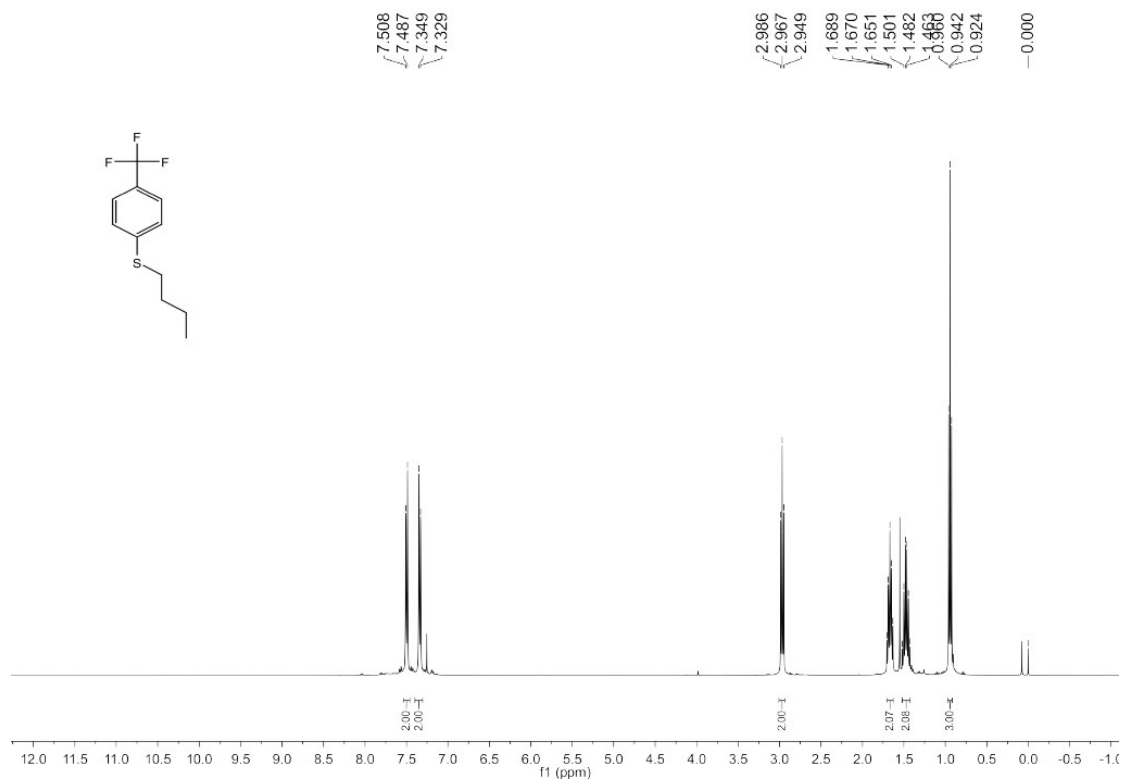
¹H NMR and ¹³C NMR spectra of compounds **4d** (in CDCl₃)



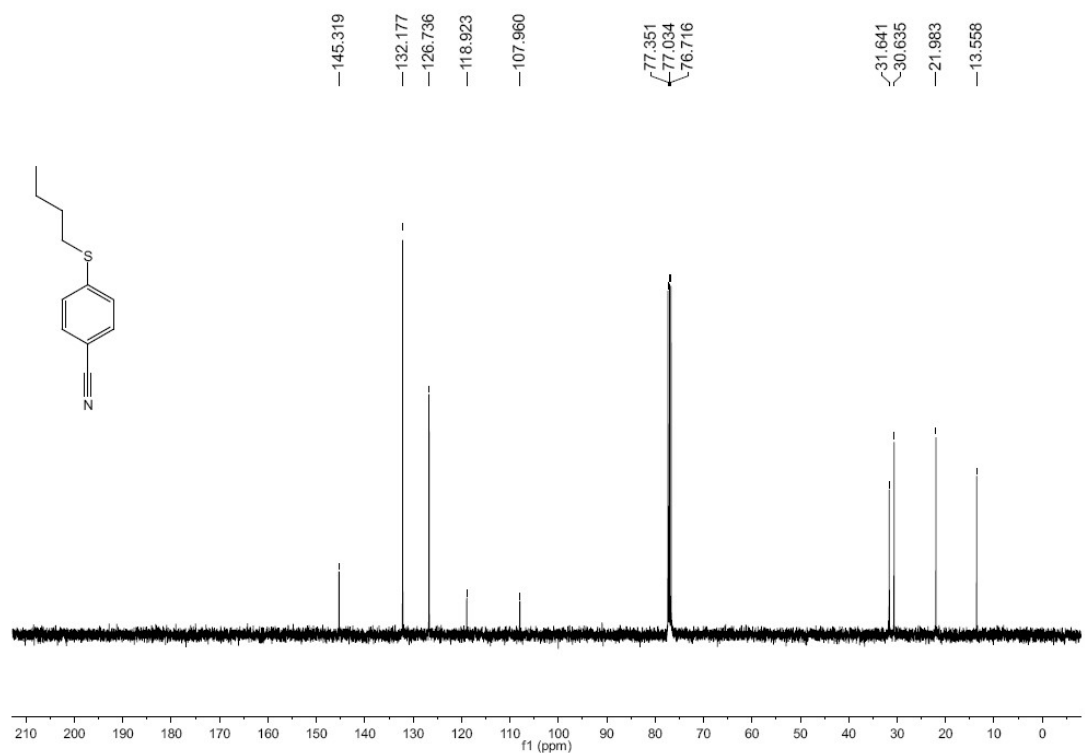
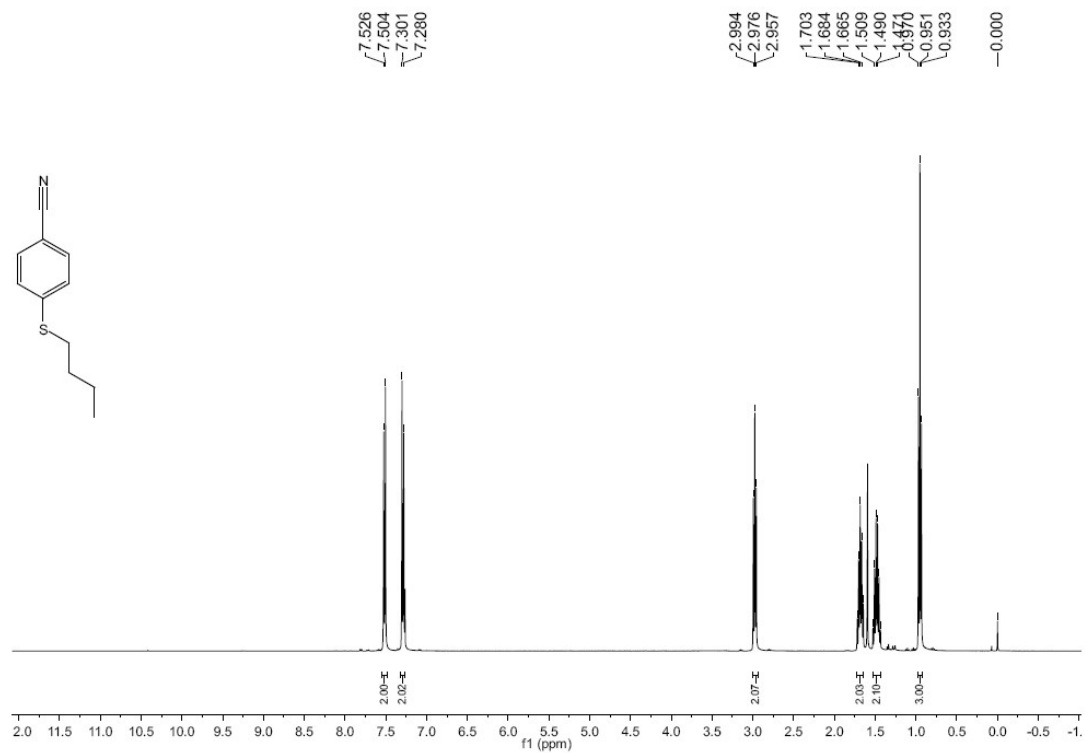
$^1\text{H NMR}$ and $^{13}\text{C NMR}$ spectra of compounds **4e** (in CDCl_3)



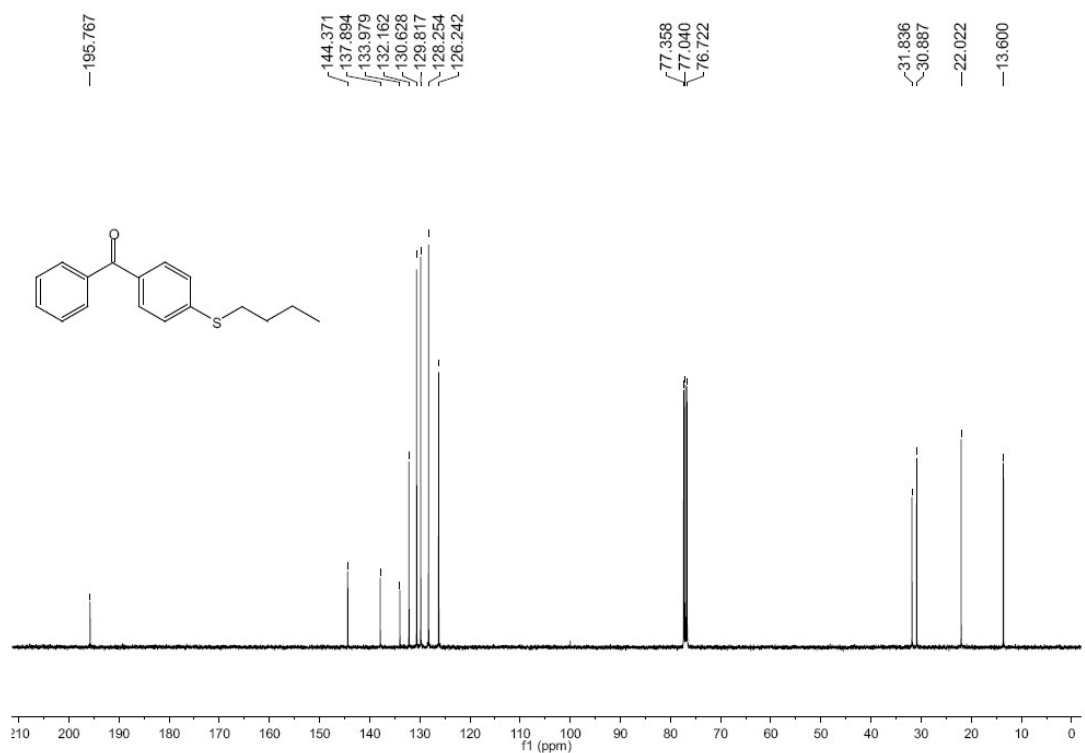
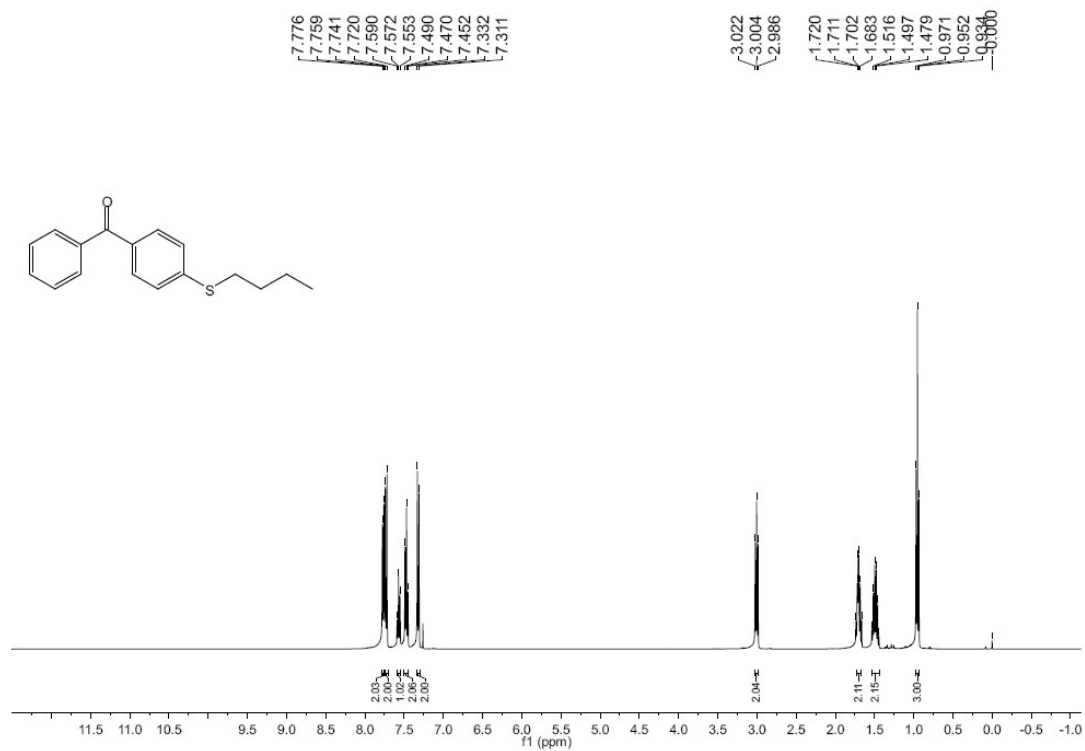
¹H NMR and ¹³C NMR spectra of compounds **4f** (in CDCl₃)



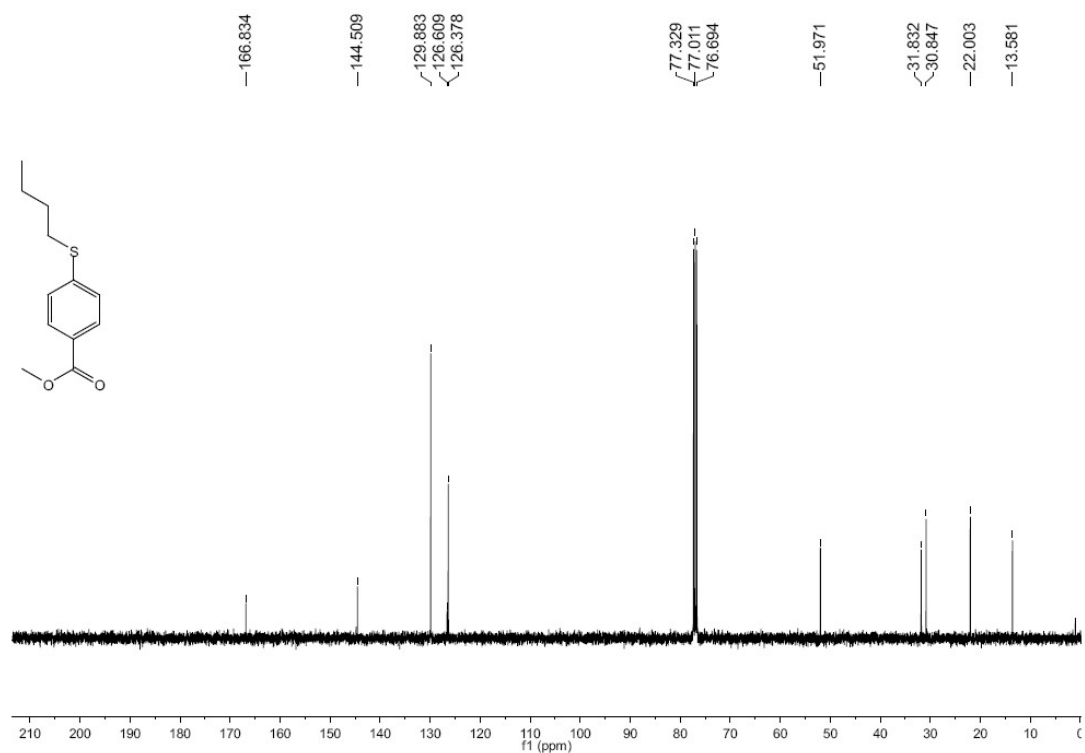
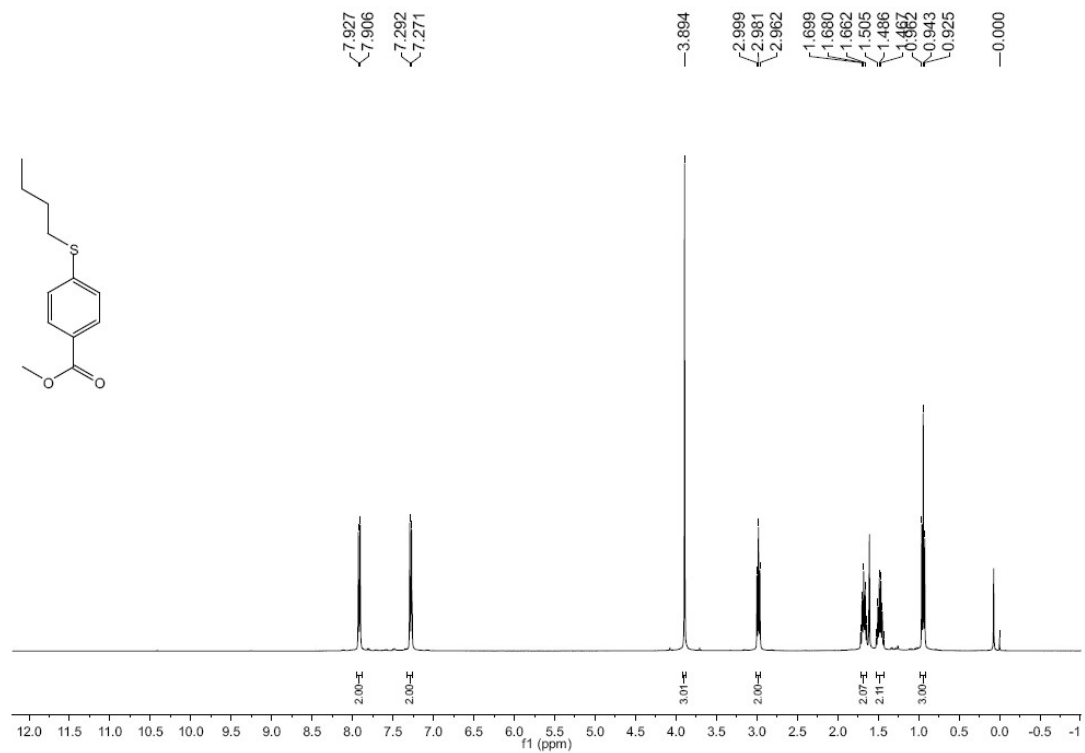
^1H NMR and ^{13}C NMR spectra of compounds **4g** (in CDCl_3)



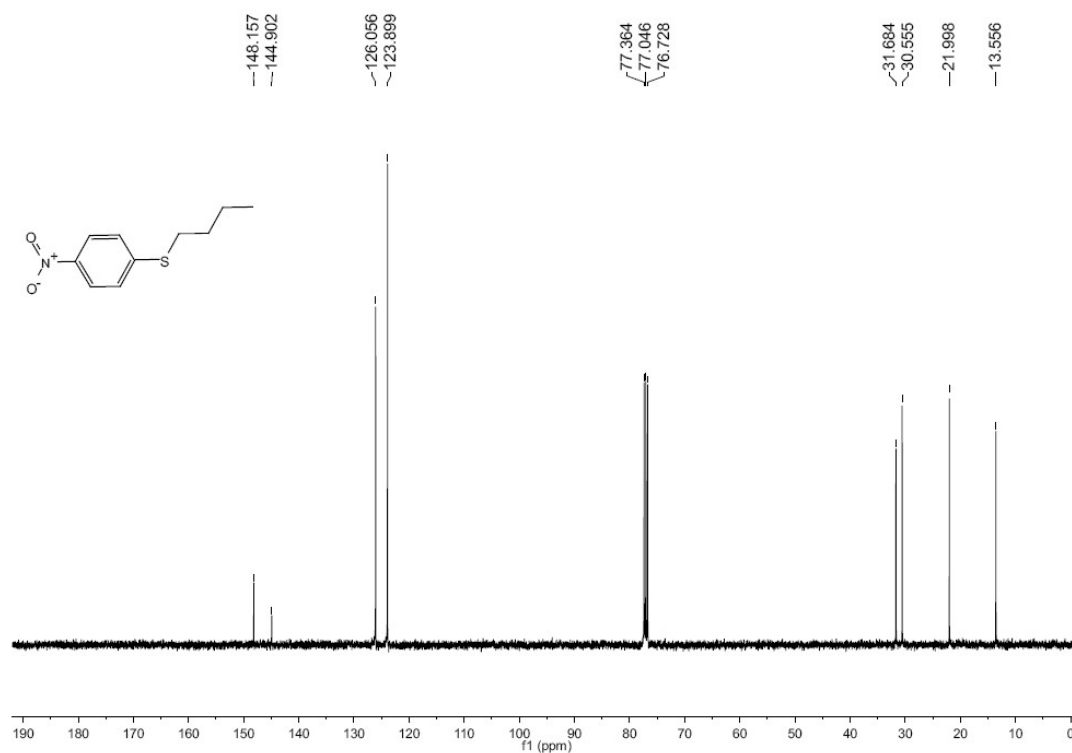
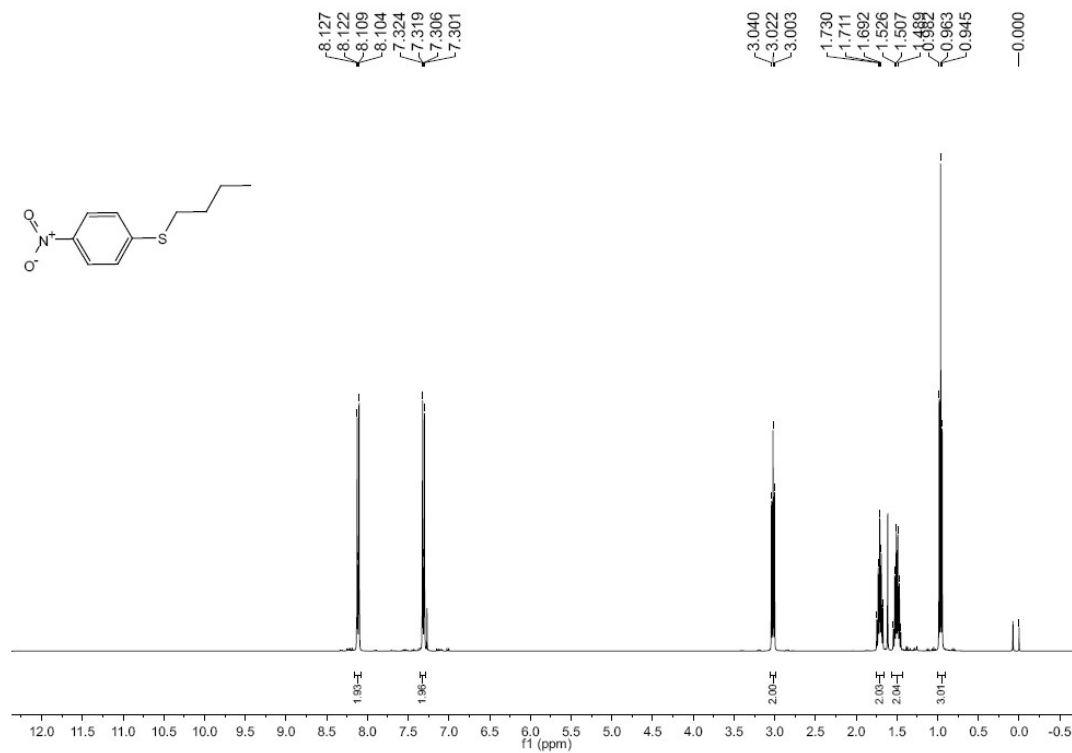
^1H NMR and ^{13}C NMR spectra of compounds **4h** (in CDCl_3)



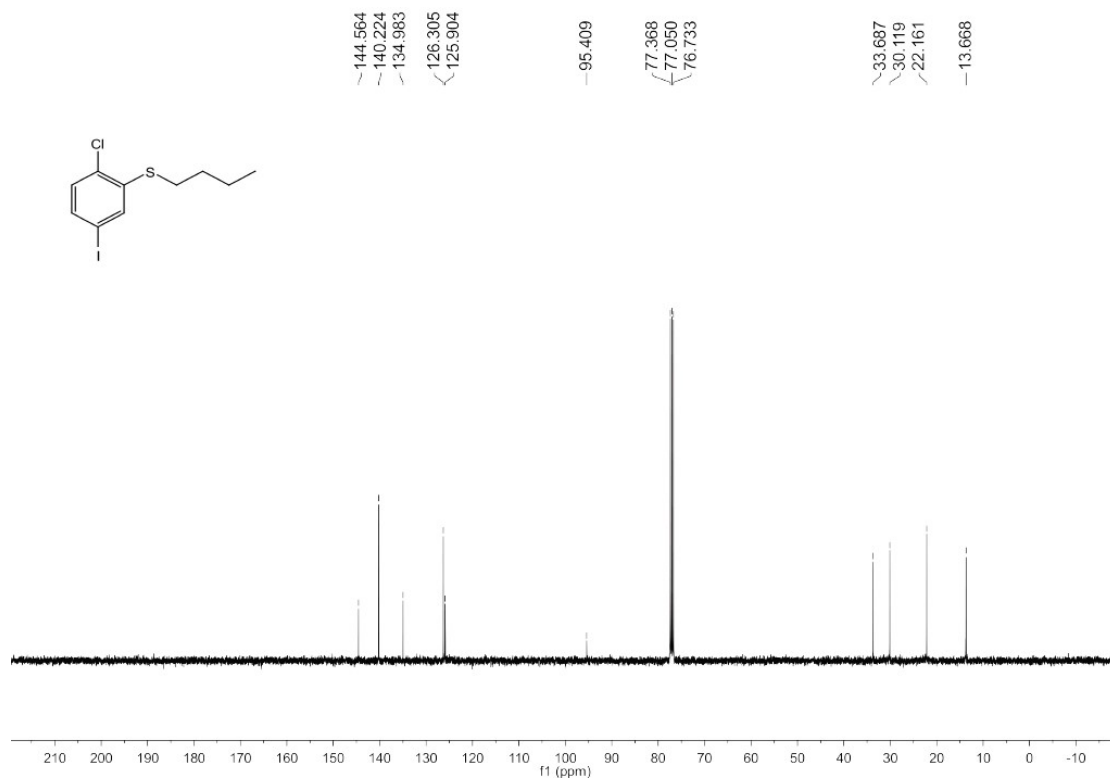
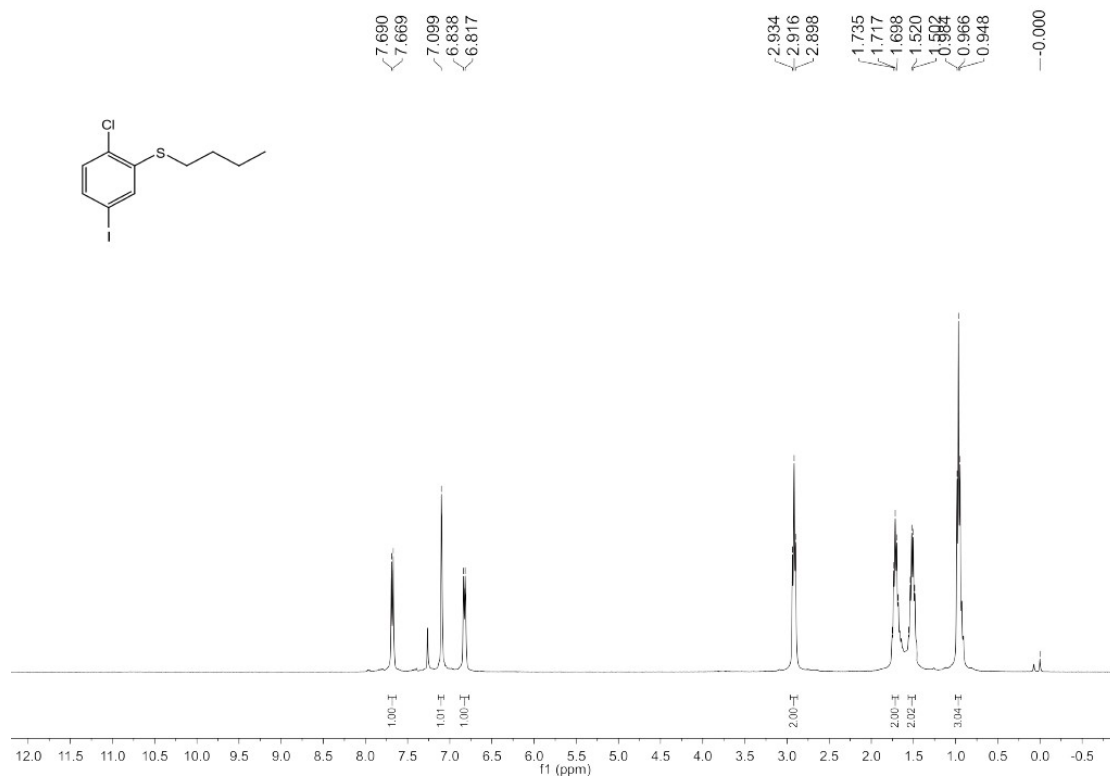
¹H NMR and ¹³C NMR spectra of compounds **4i** (in CDCl₃)



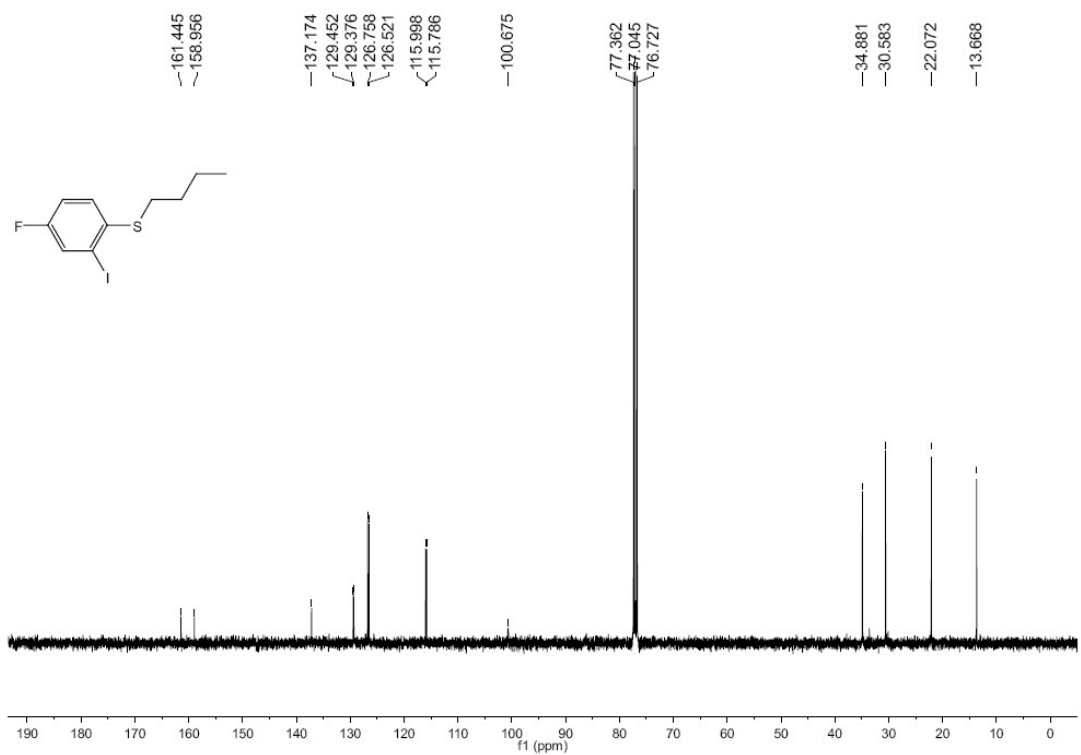
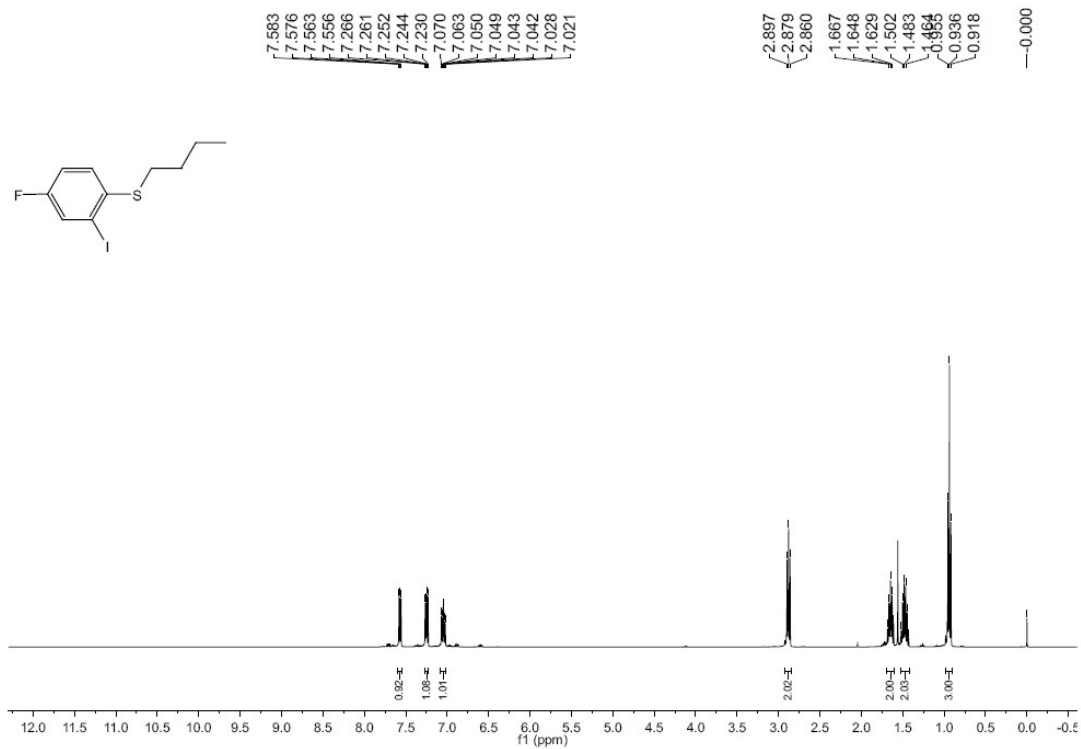
^1H NMR and ^{13}C NMR spectra of compounds **4j** (in CDCl_3)



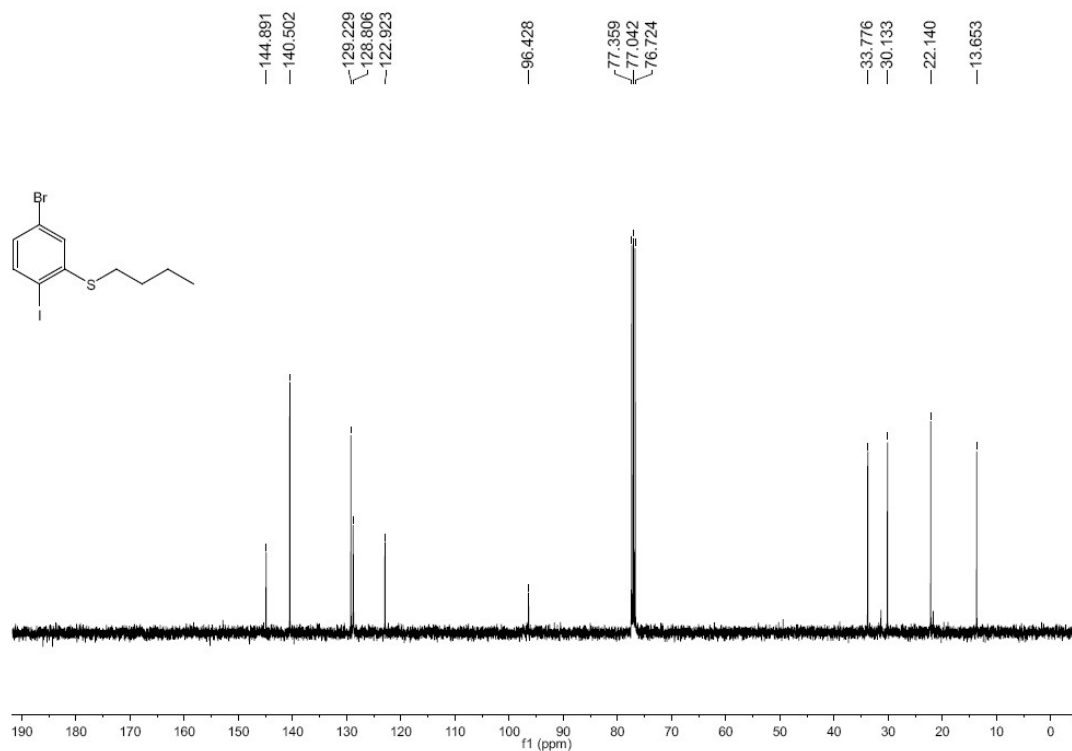
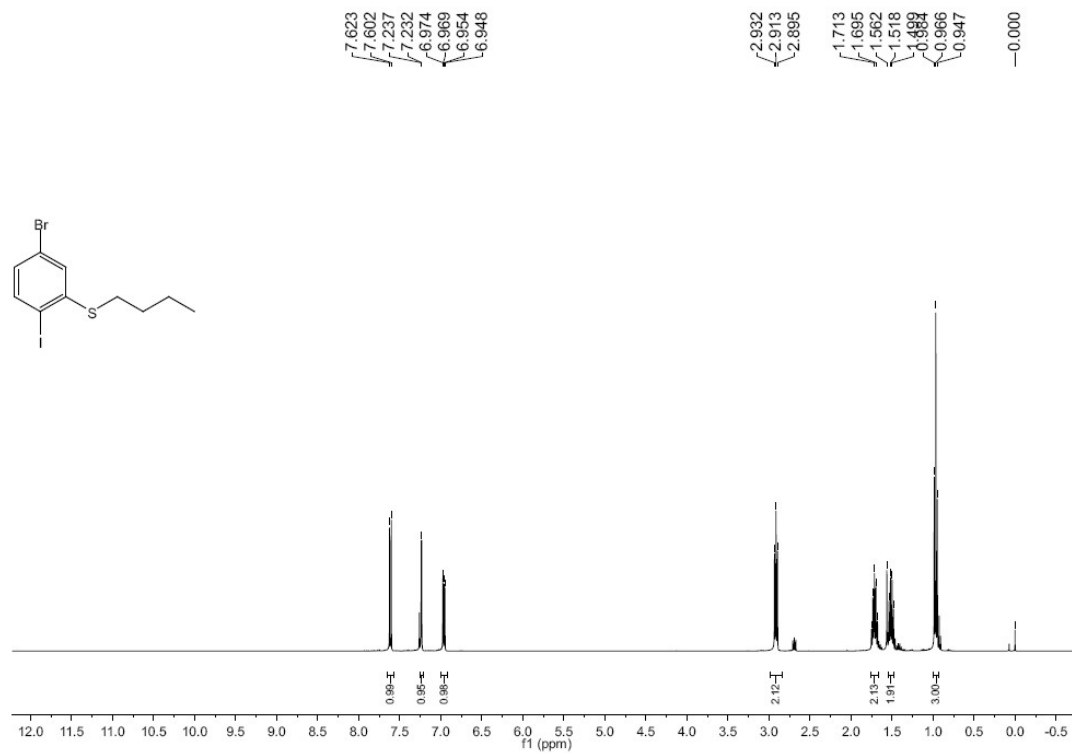
¹H NMR and ¹³C NMR spectra of compounds **4k** (in CDCl₃)



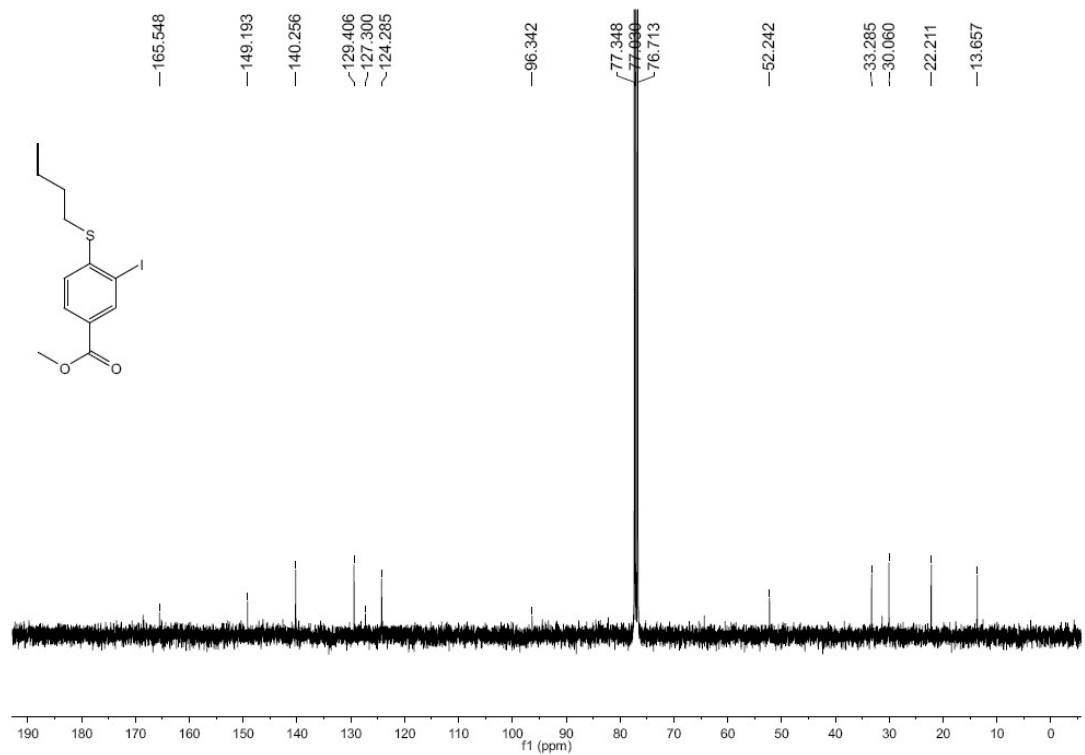
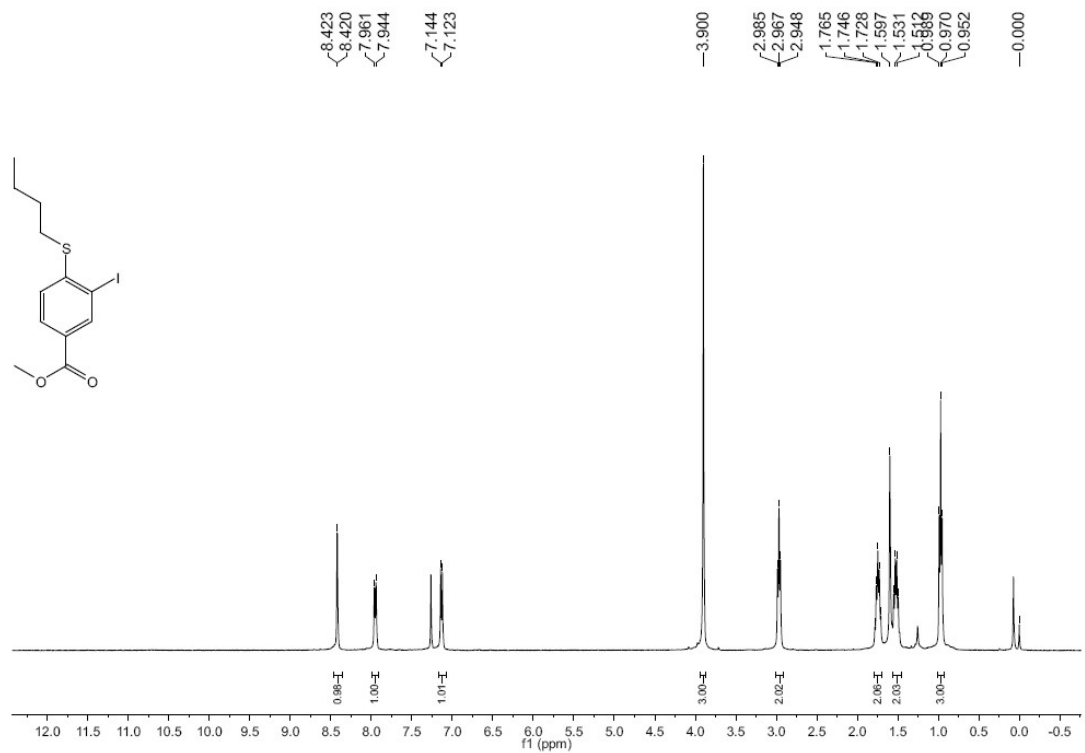
¹H NMR and ¹³C NMR spectra of compounds **4I** (in CDCl₃)



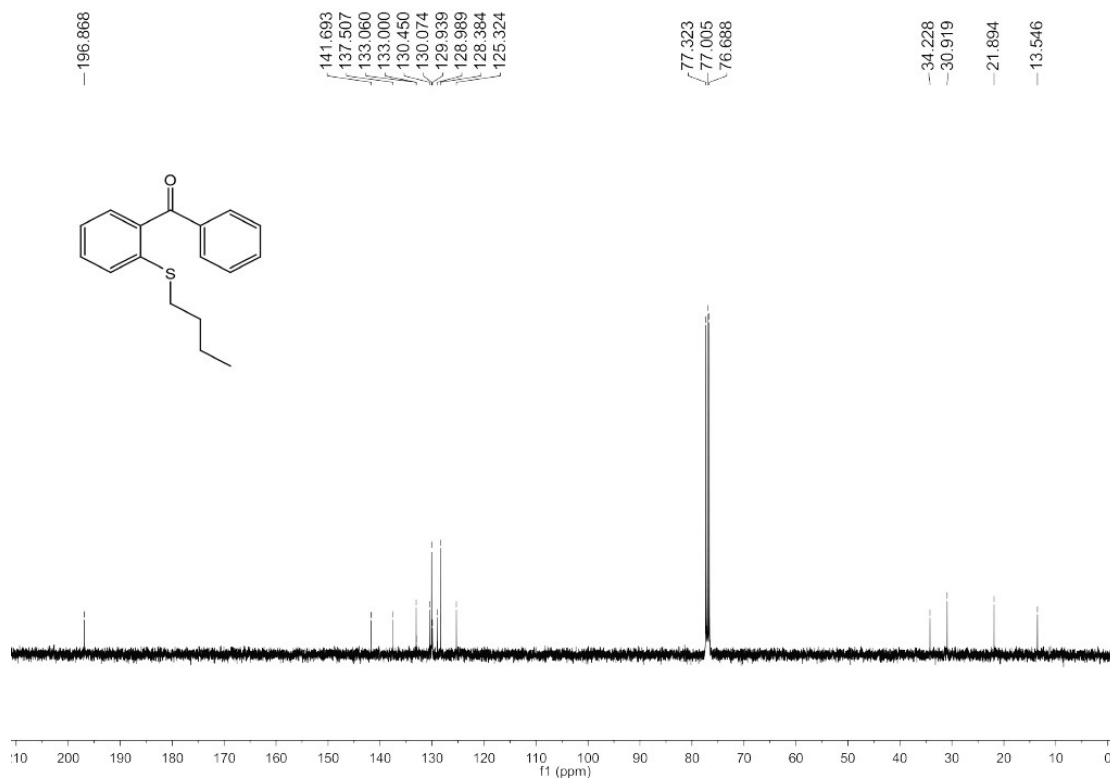
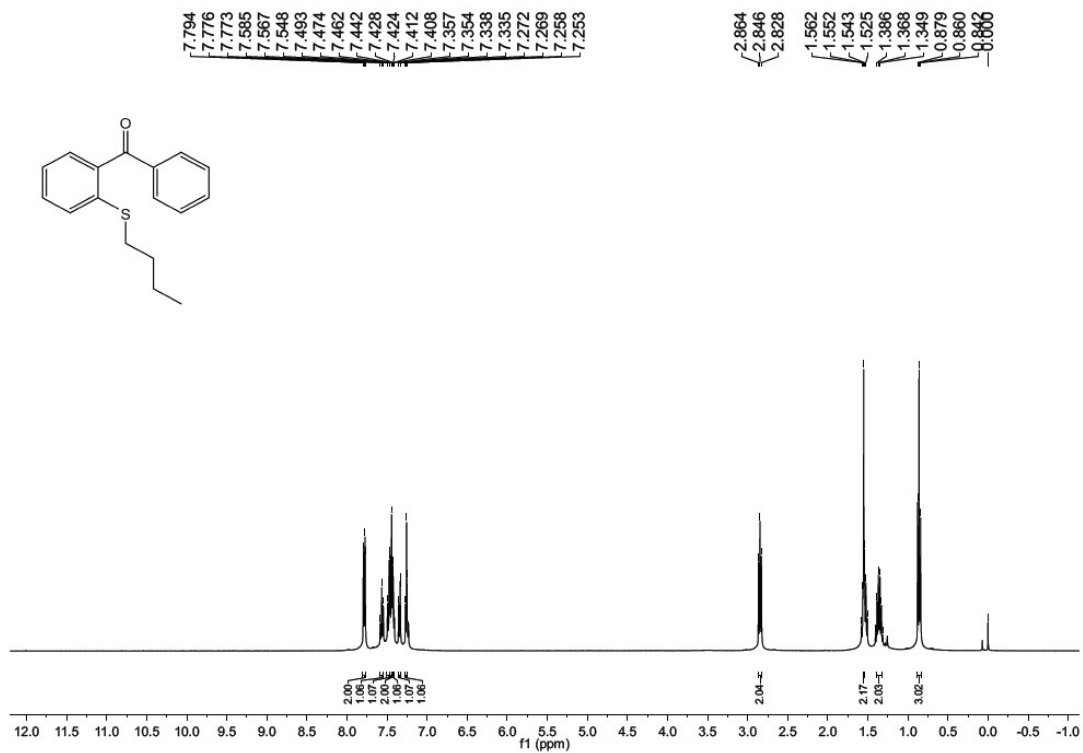
¹H NMR and ¹³C NMR spectra of compounds **4m** (in CDCl₃)



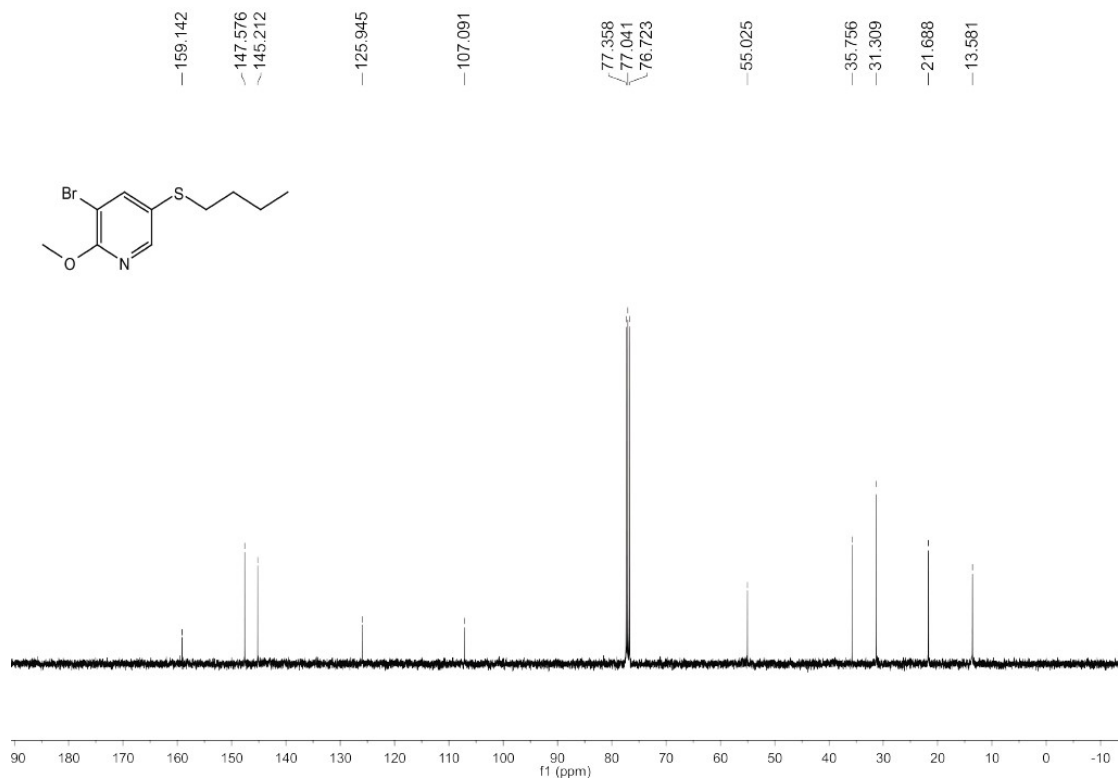
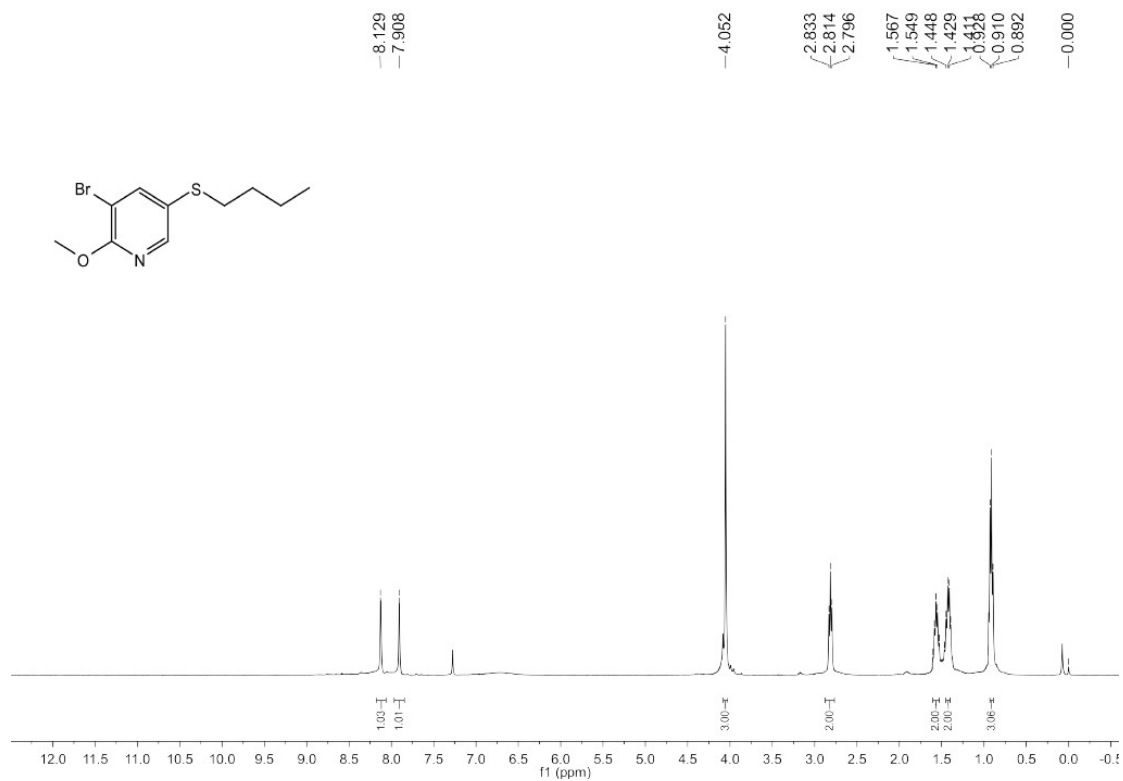
^1H NMR and ^{13}C NMR spectra of compounds **4n** (in CDCl_3)



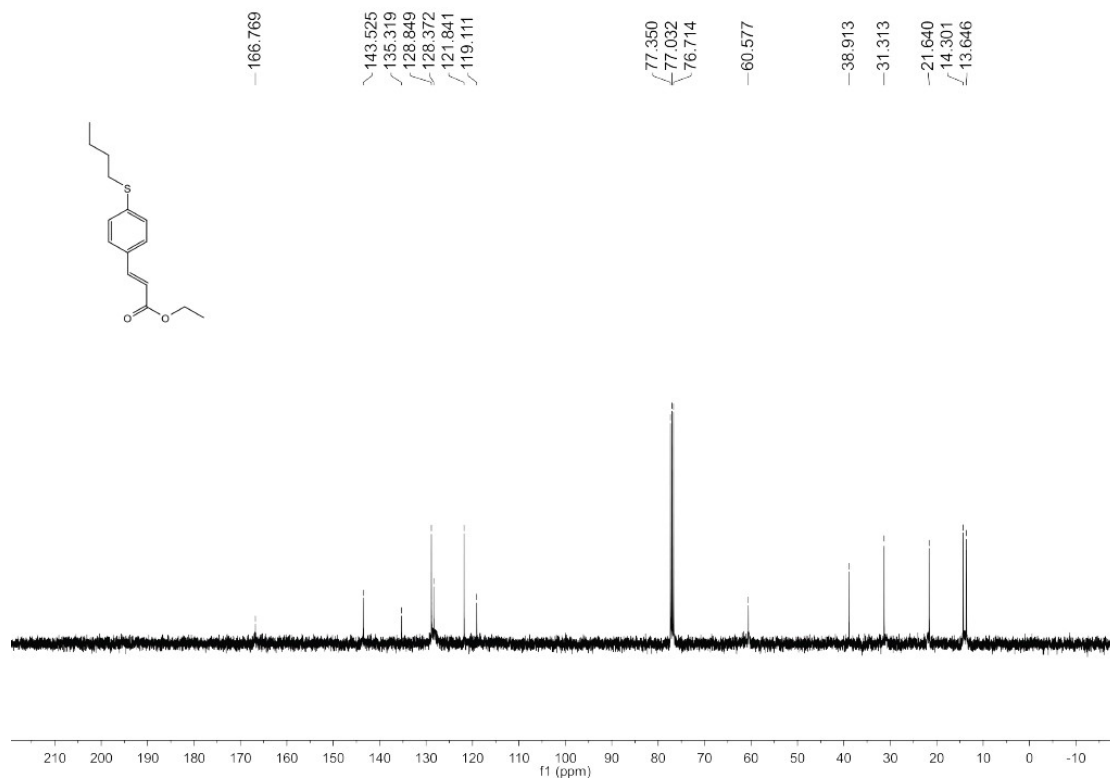
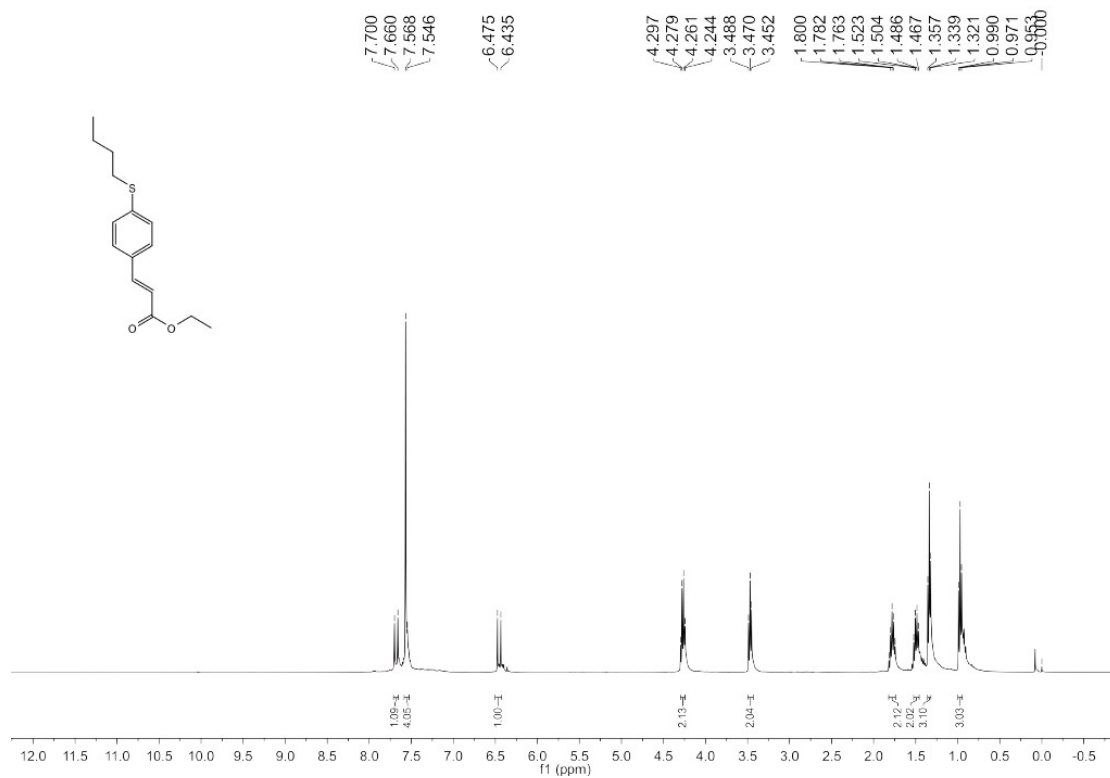
¹H NMR and ¹³C NMR spectra of compounds **4o** (in CDCl₃)



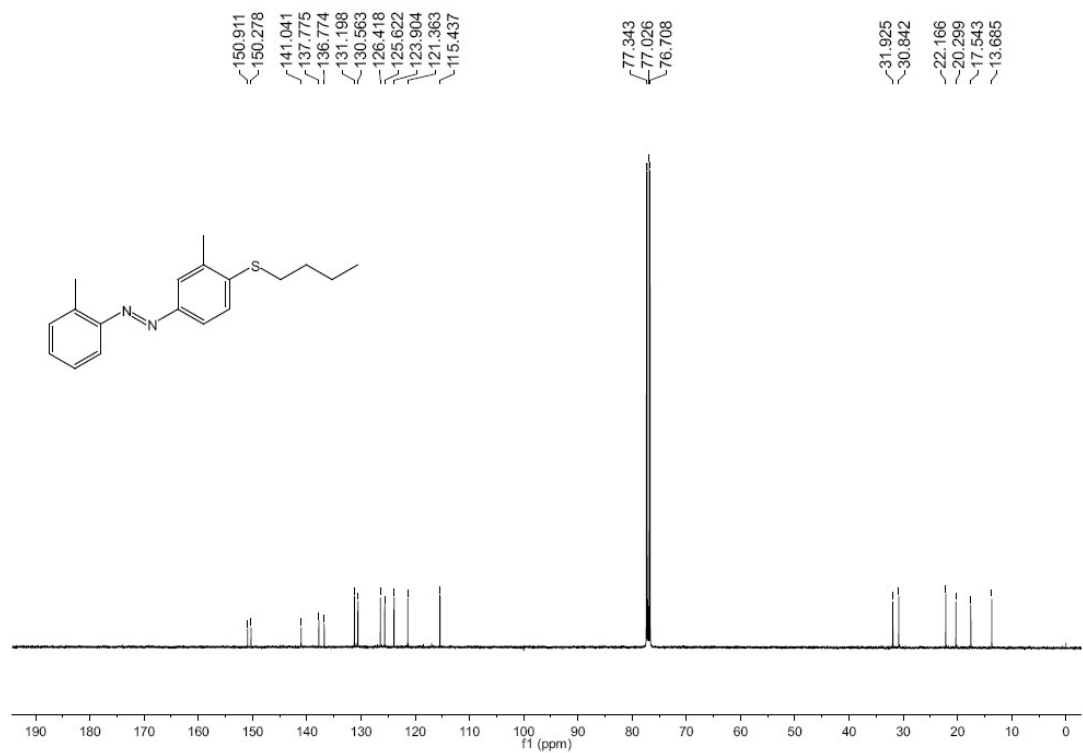
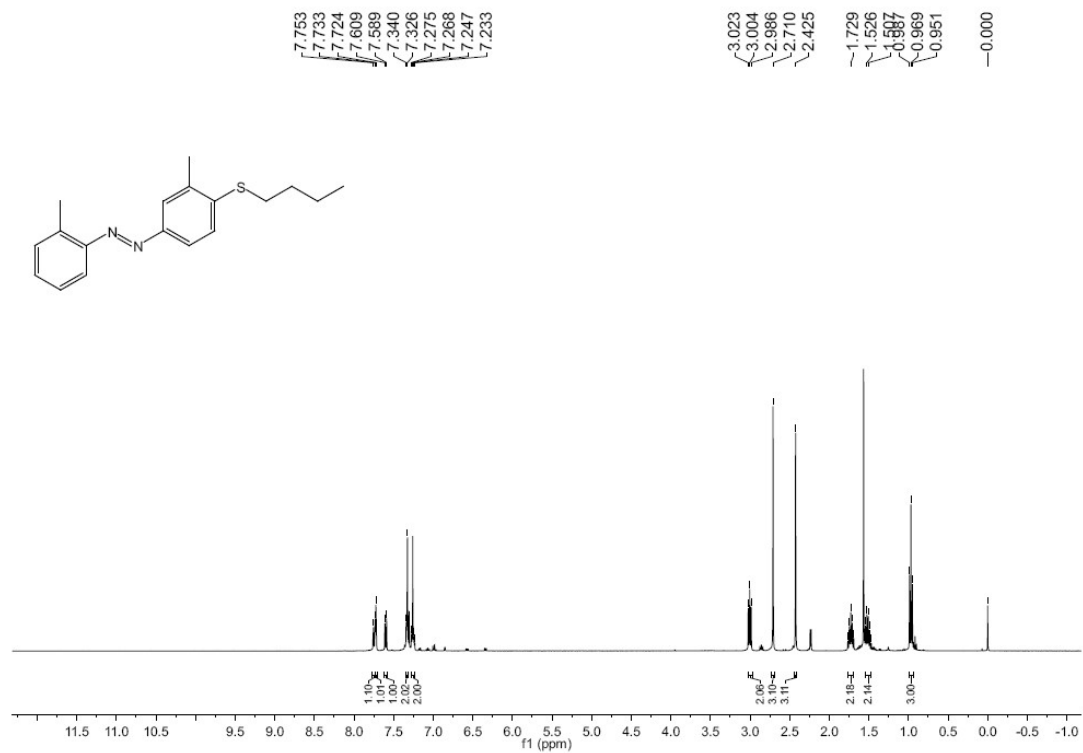
¹H NMR and ¹³C NMR spectra of compounds **4p** (in CDCl₃)



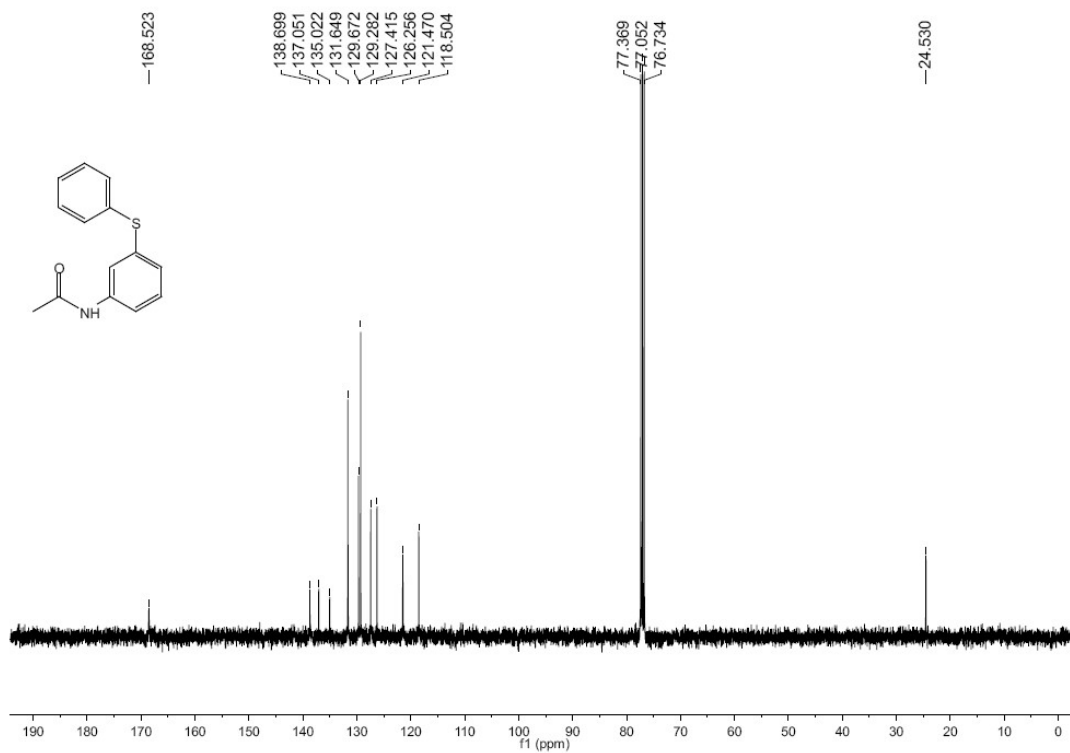
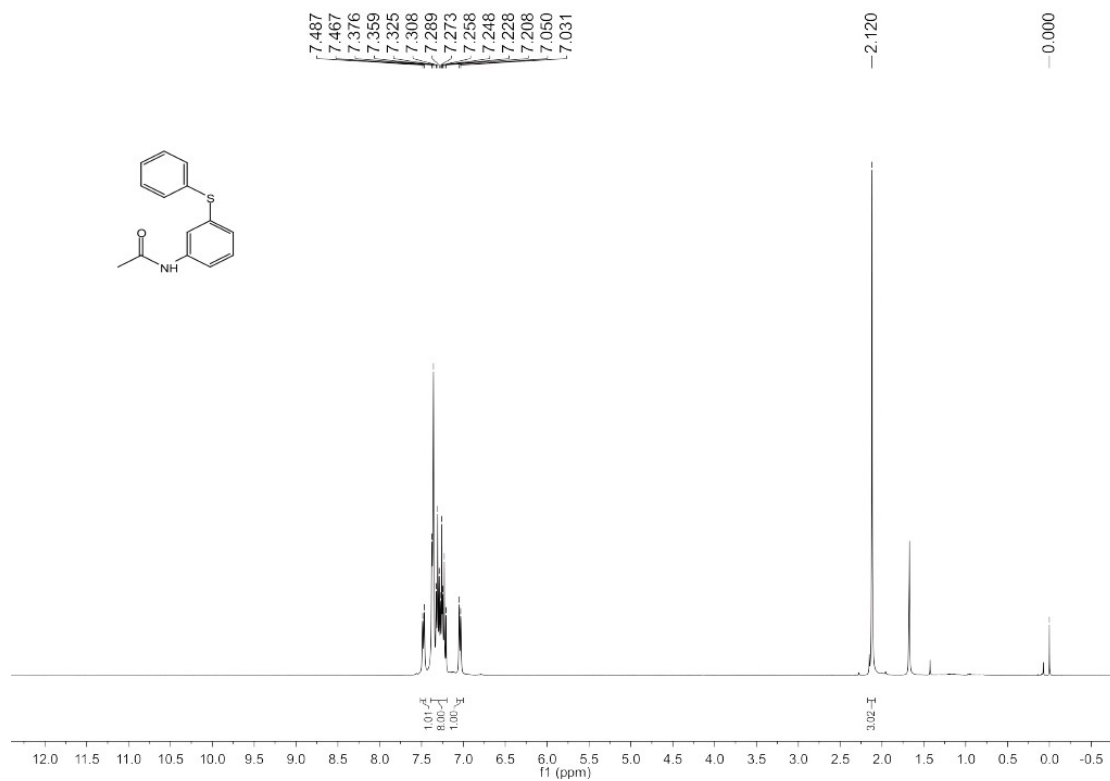
^1H NMR and ^{13}C NMR spectra of compounds **4q** (in CDCl_3)



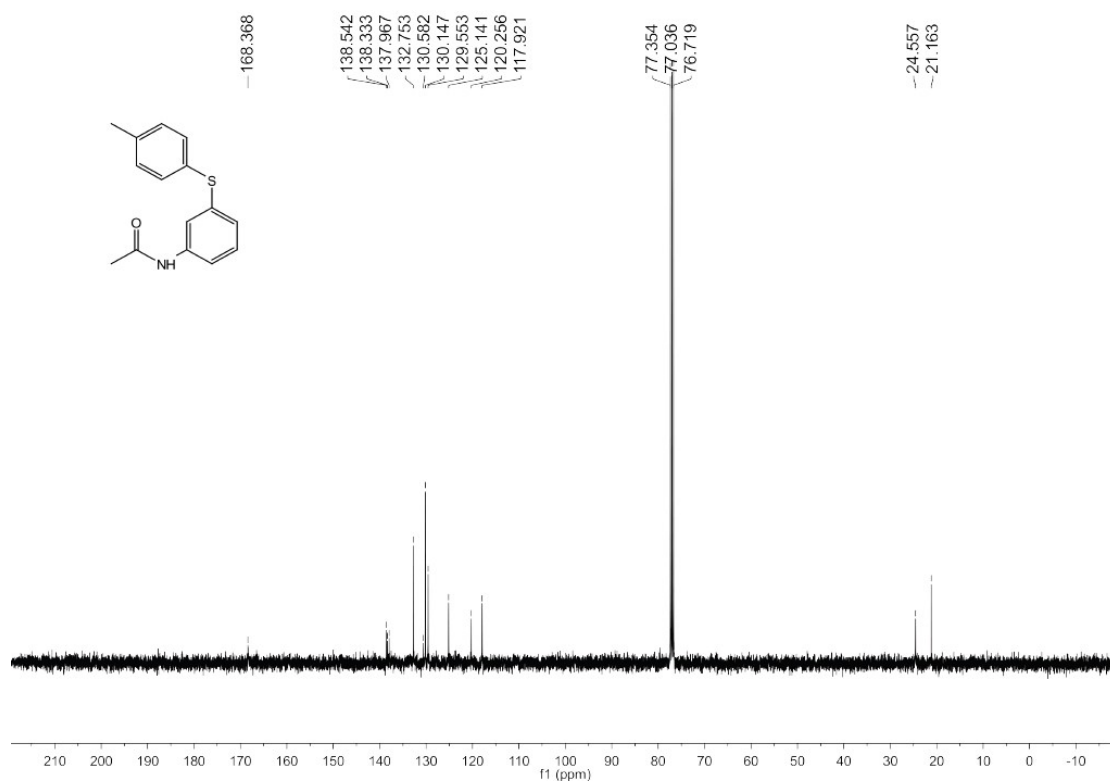
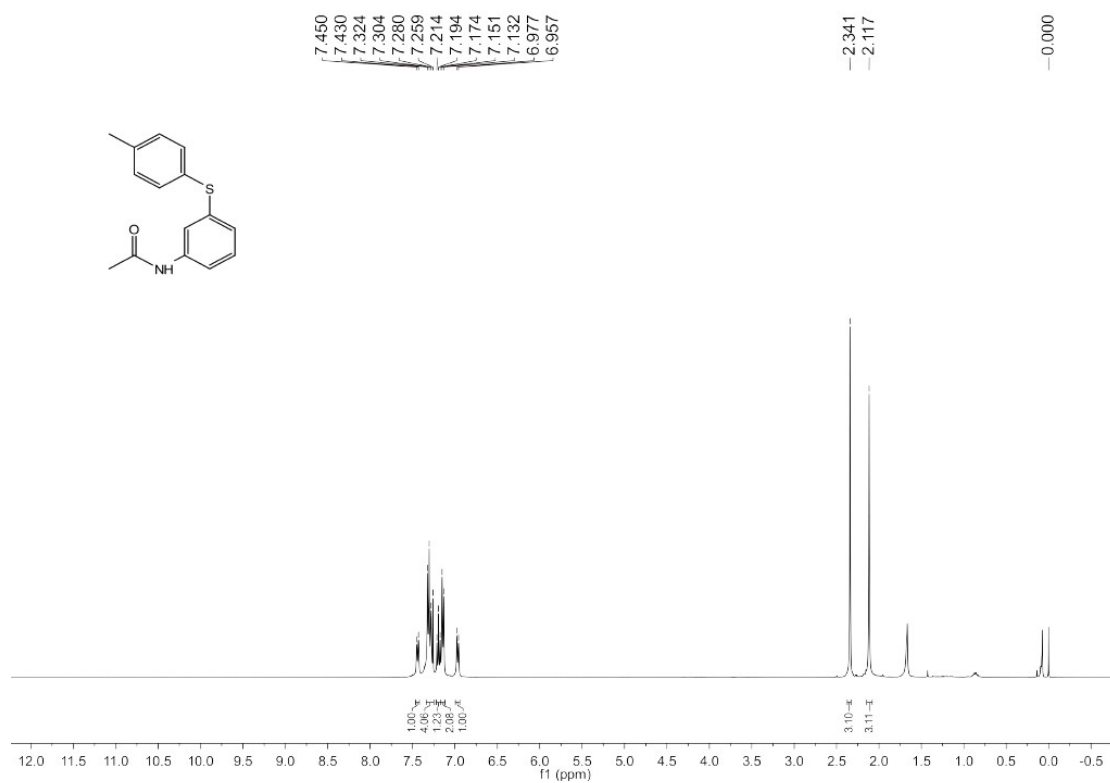
¹H NMR and ¹³C NMR spectra of compounds **4r** (in CDCl₃)



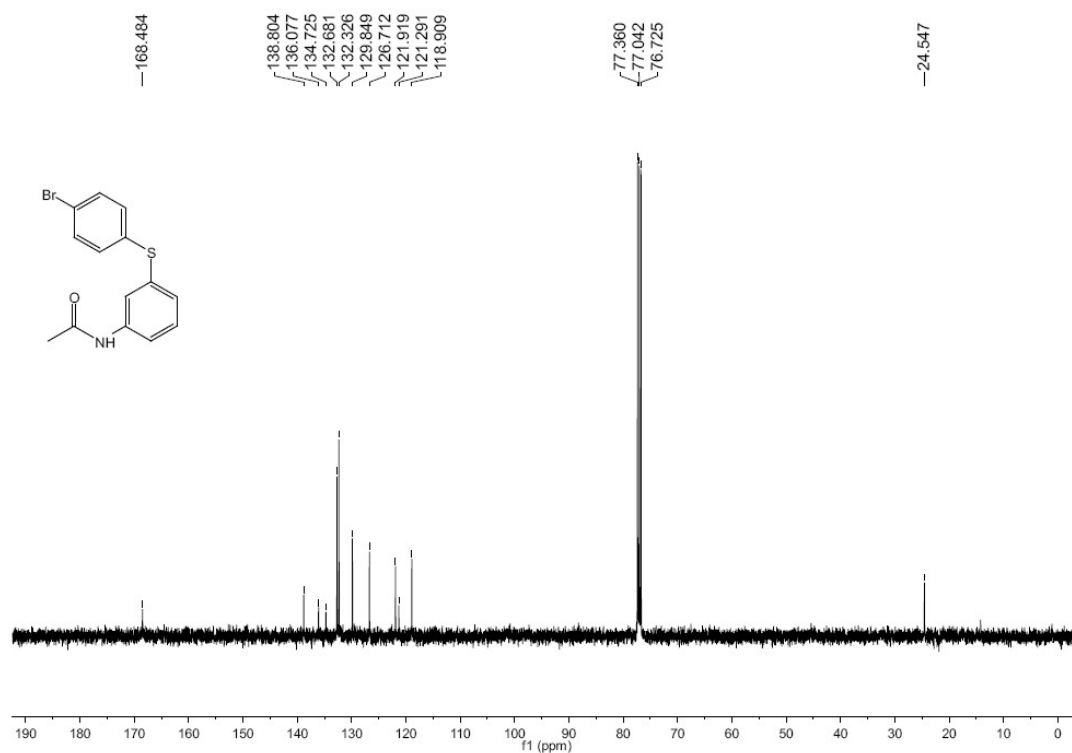
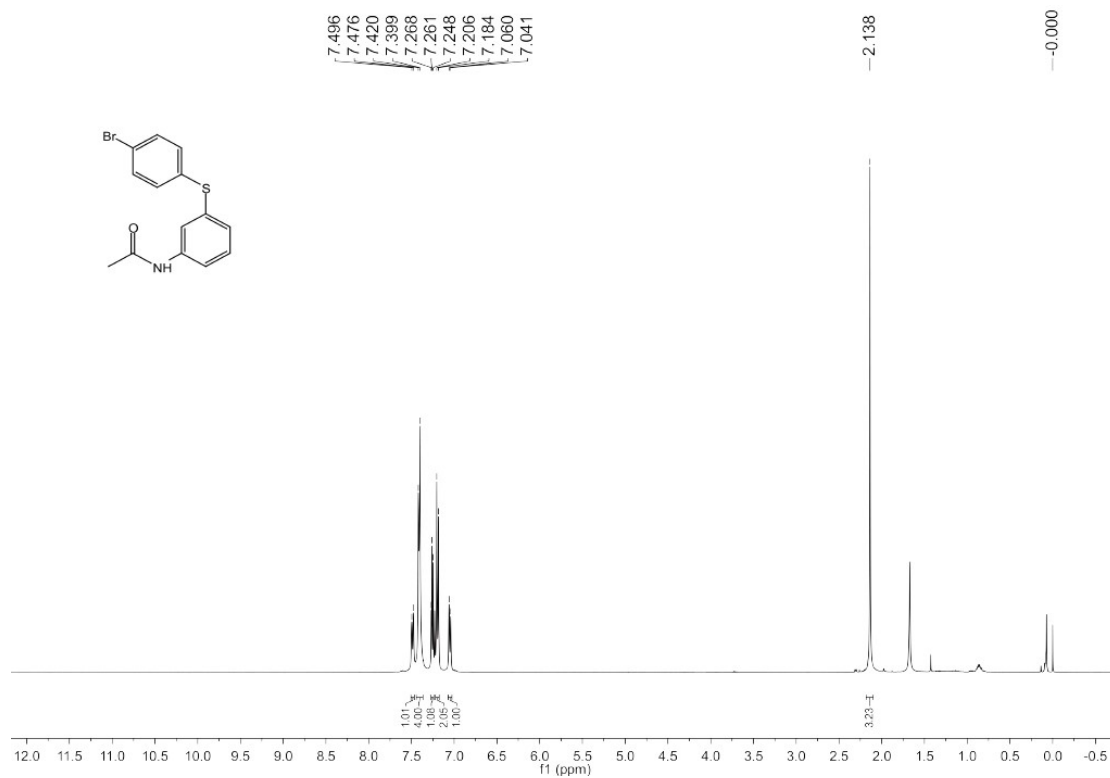
^1H NMR and ^{13}C NMR spectra of compounds **4s** (in CDCl_3)



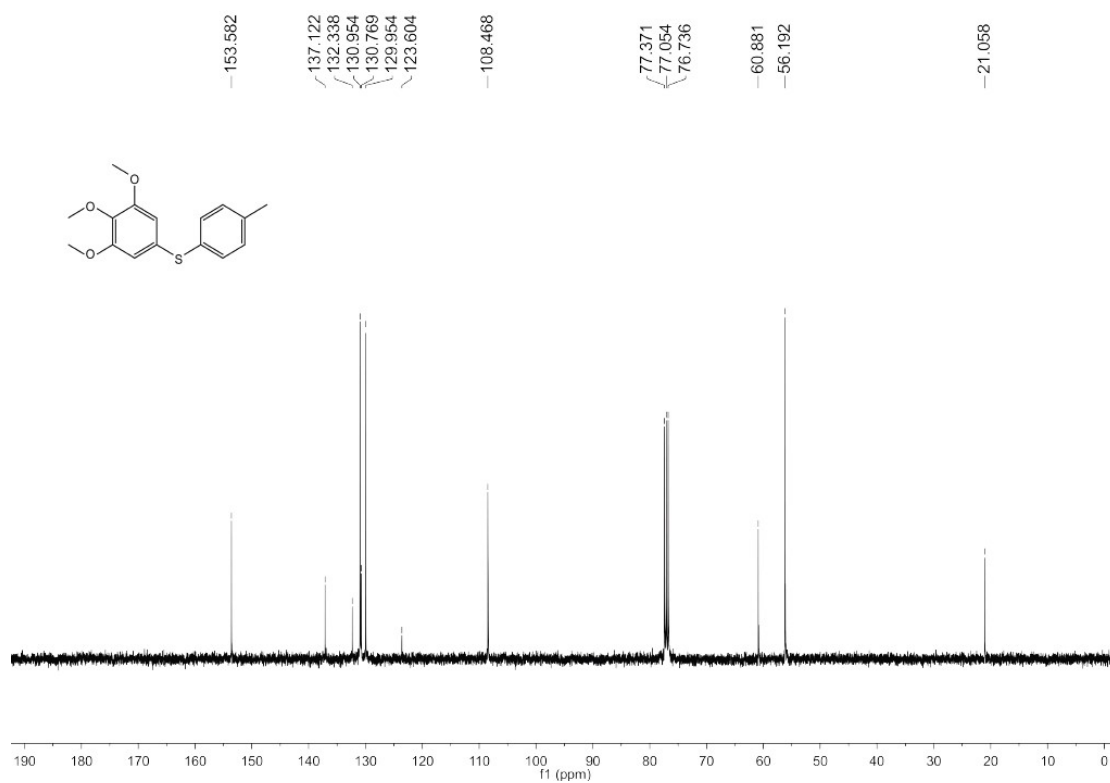
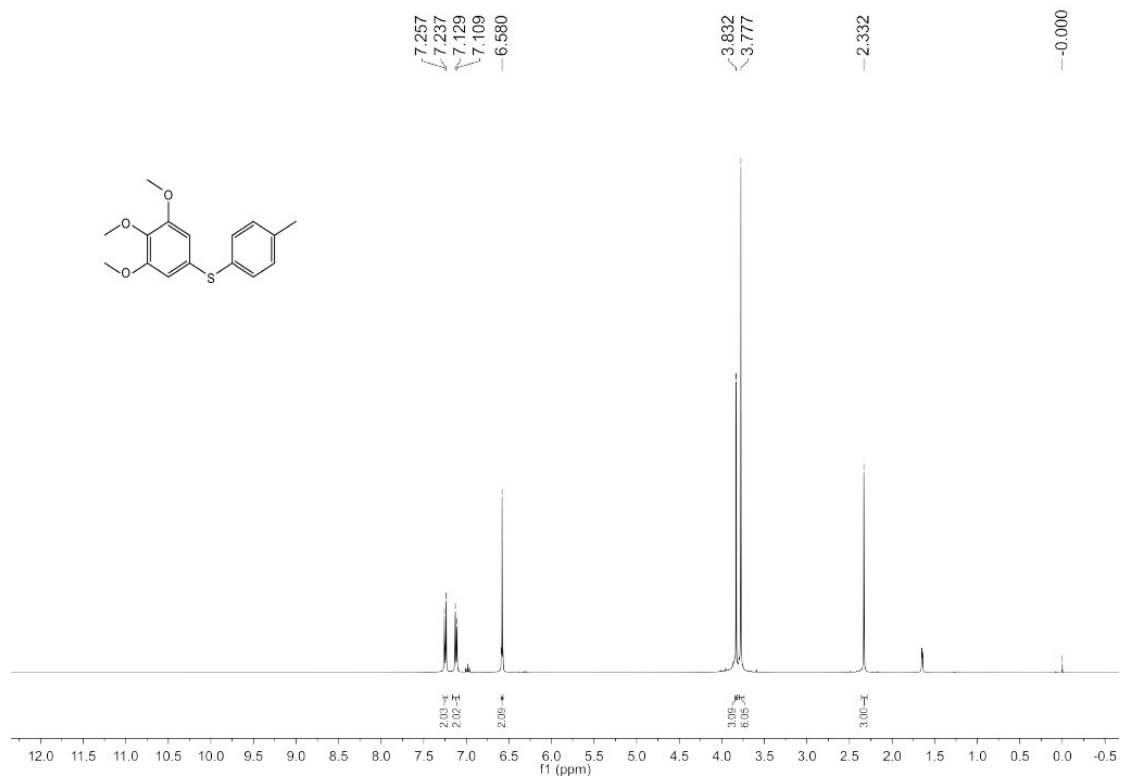
¹H NMR and ¹³C NMR spectra of compounds **4t** (in CDCl₃)



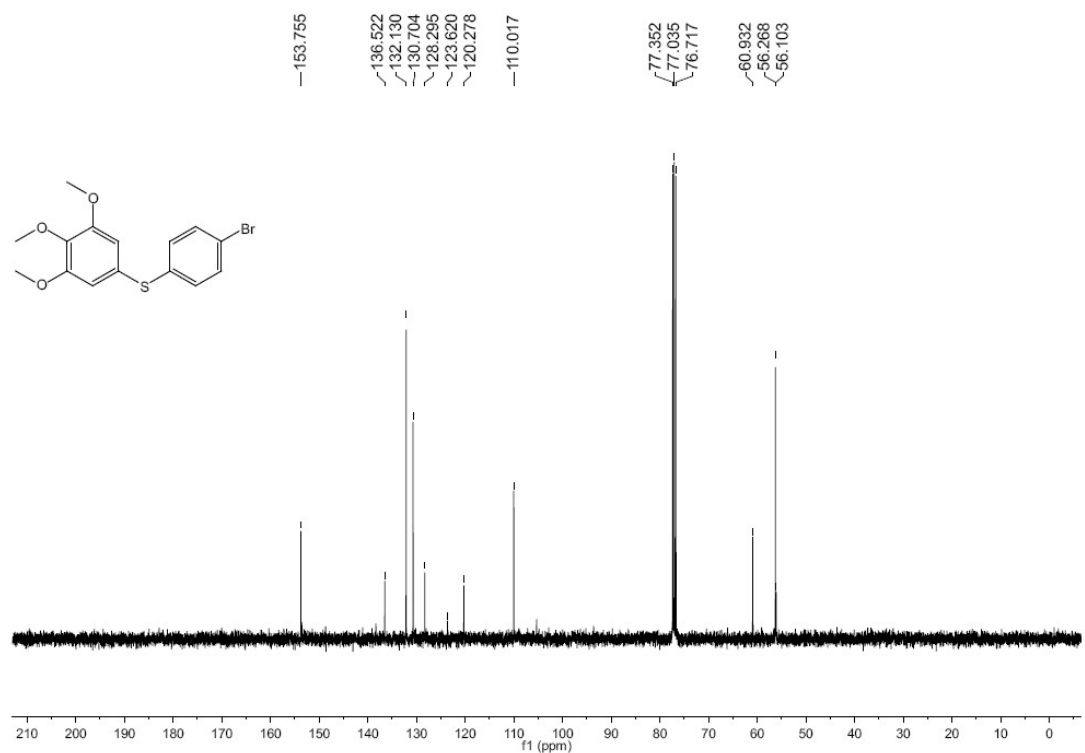
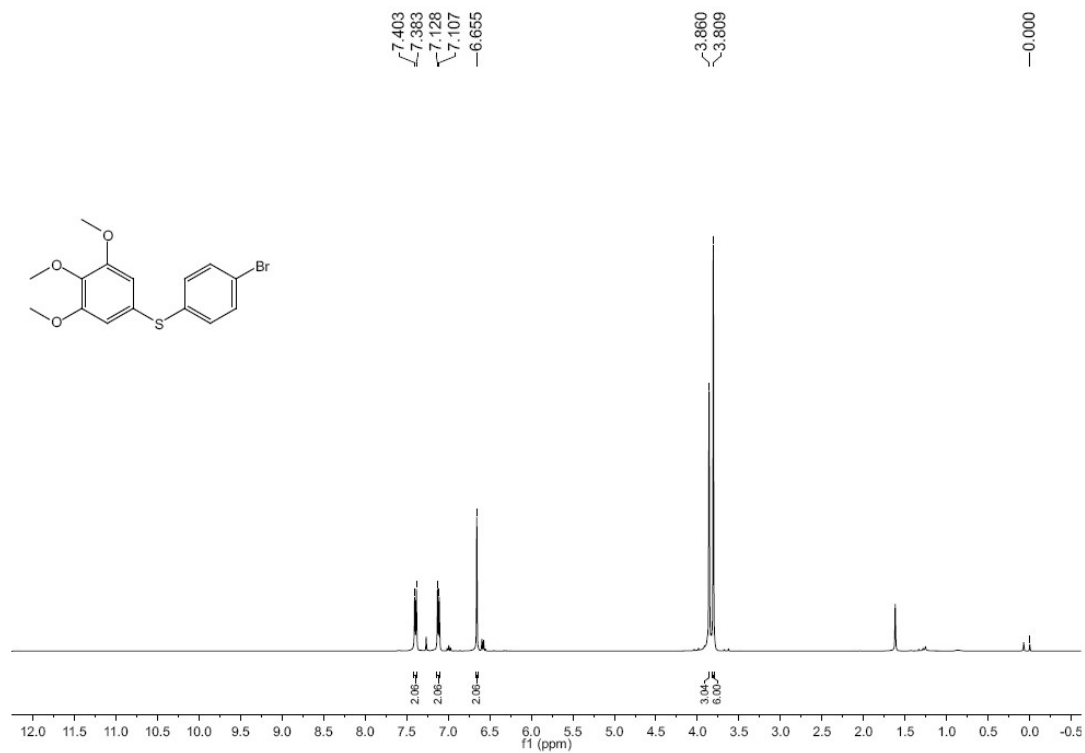
¹H NMR and ¹³C NMR spectra of compounds **4u** (in CDCl₃)



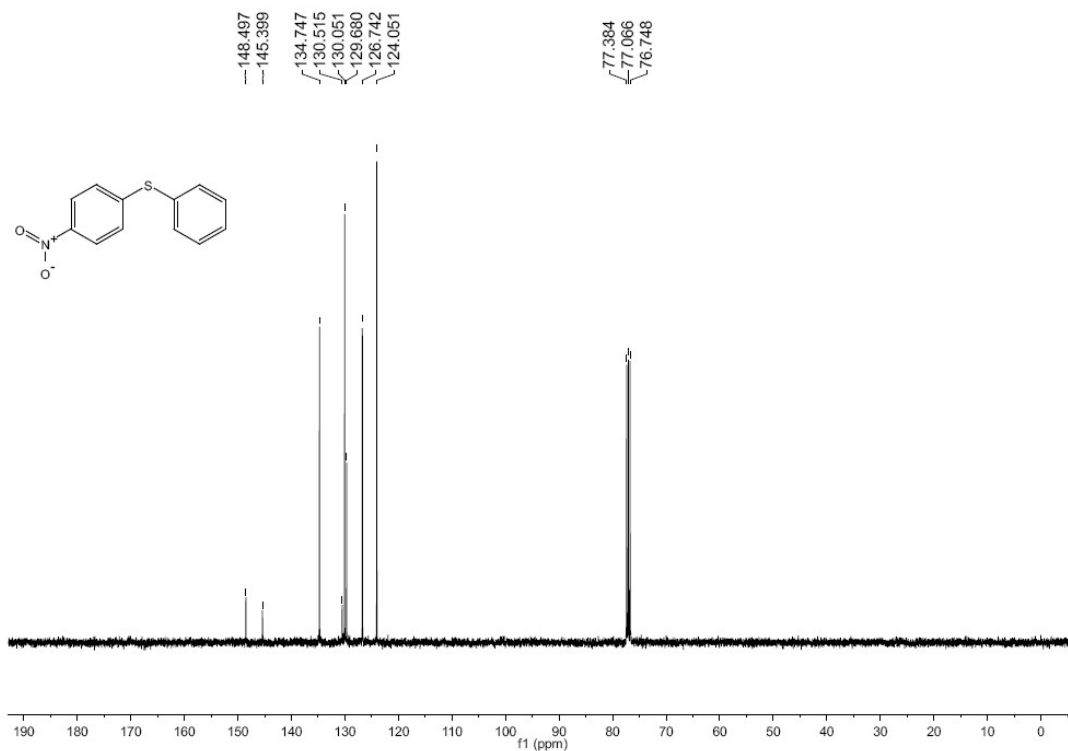
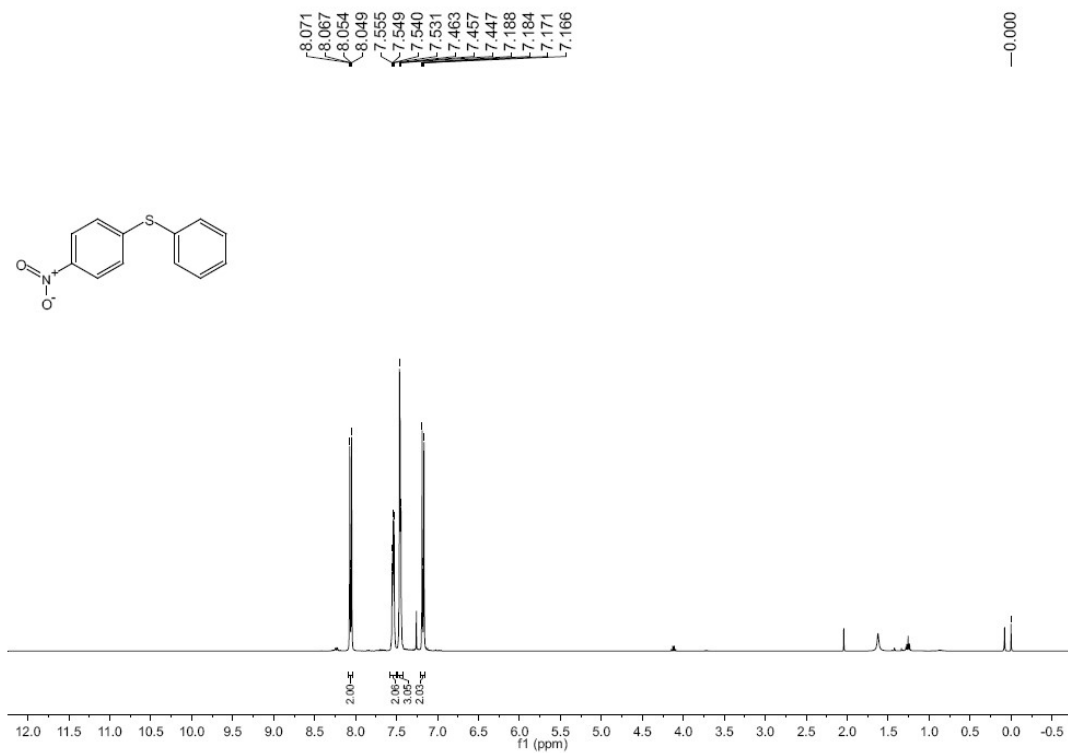
¹H NMR and ¹³C NMR spectra of compounds 4v (in CDCl₃)



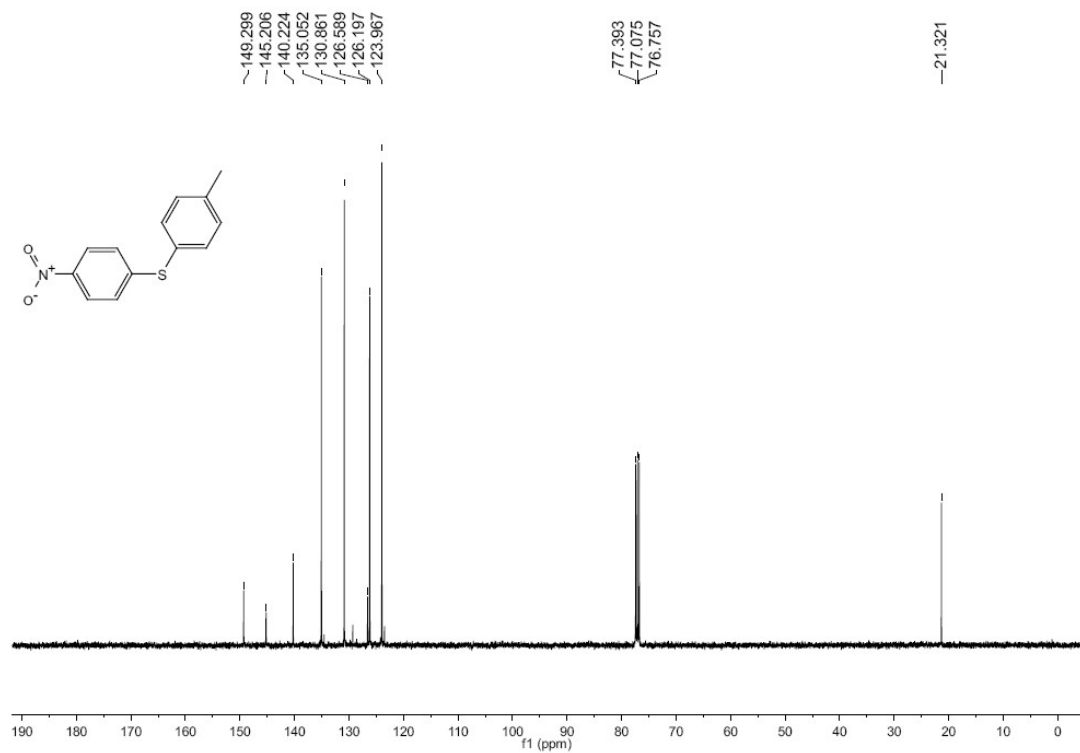
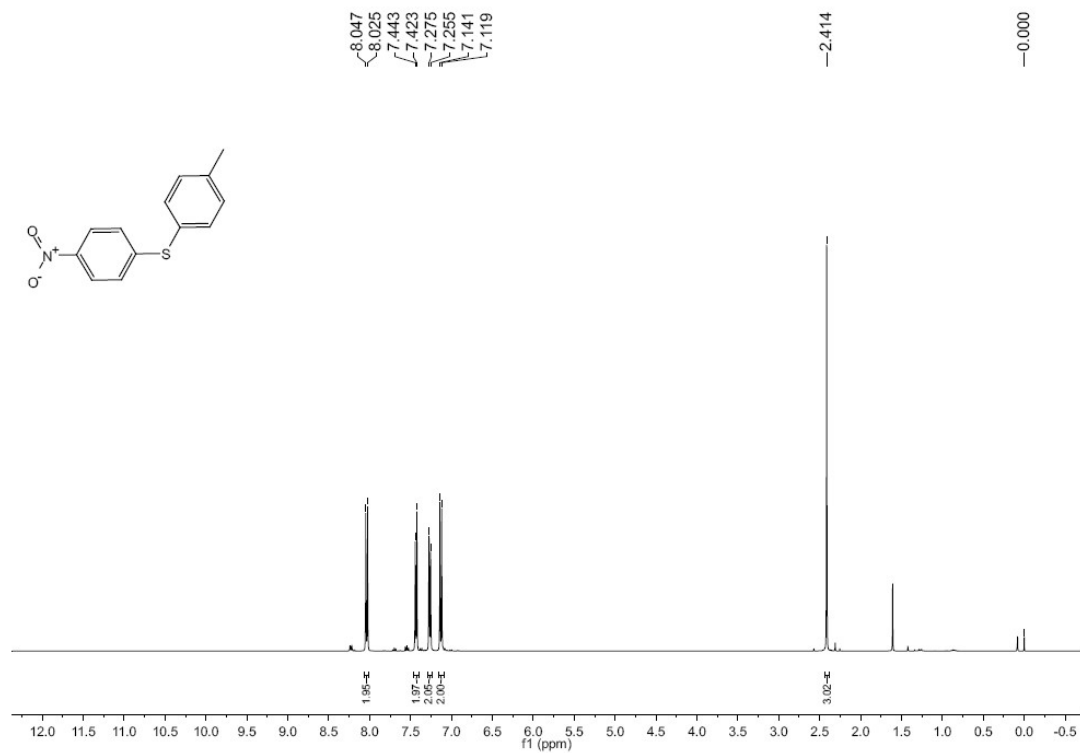
¹H NMR and ¹³C NMR spectra of compounds **4w** (in CDCl₃)



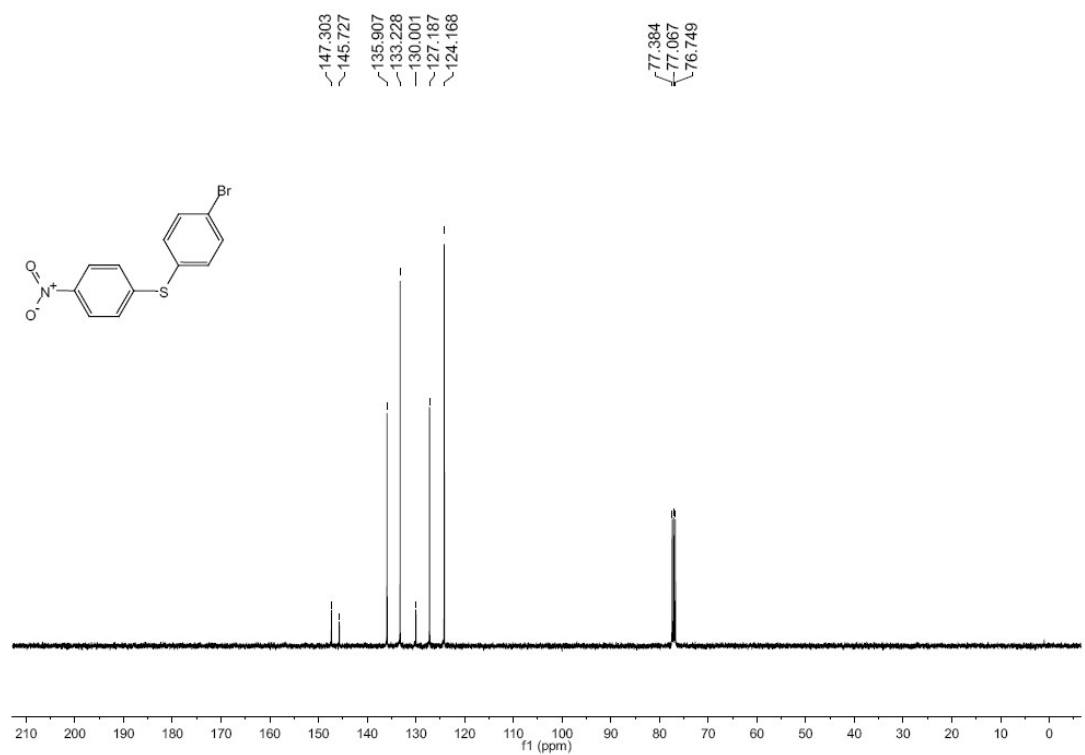
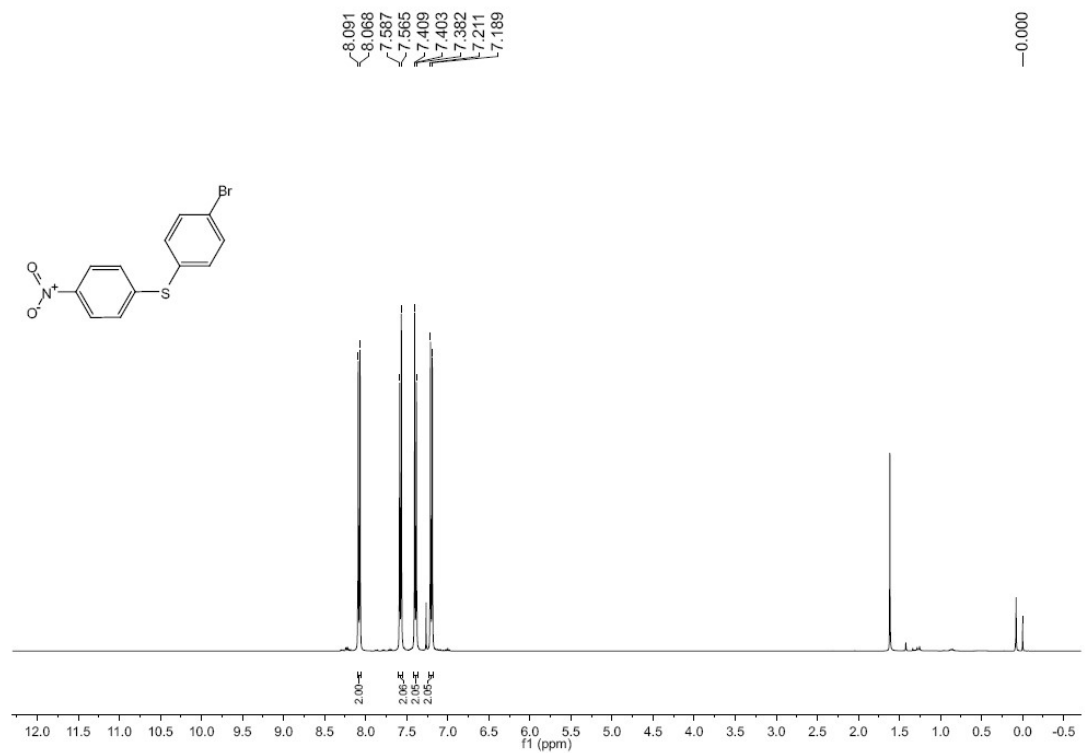
¹H NMR and ¹³C NMR spectra of compounds **4x** (in CDCl₃)



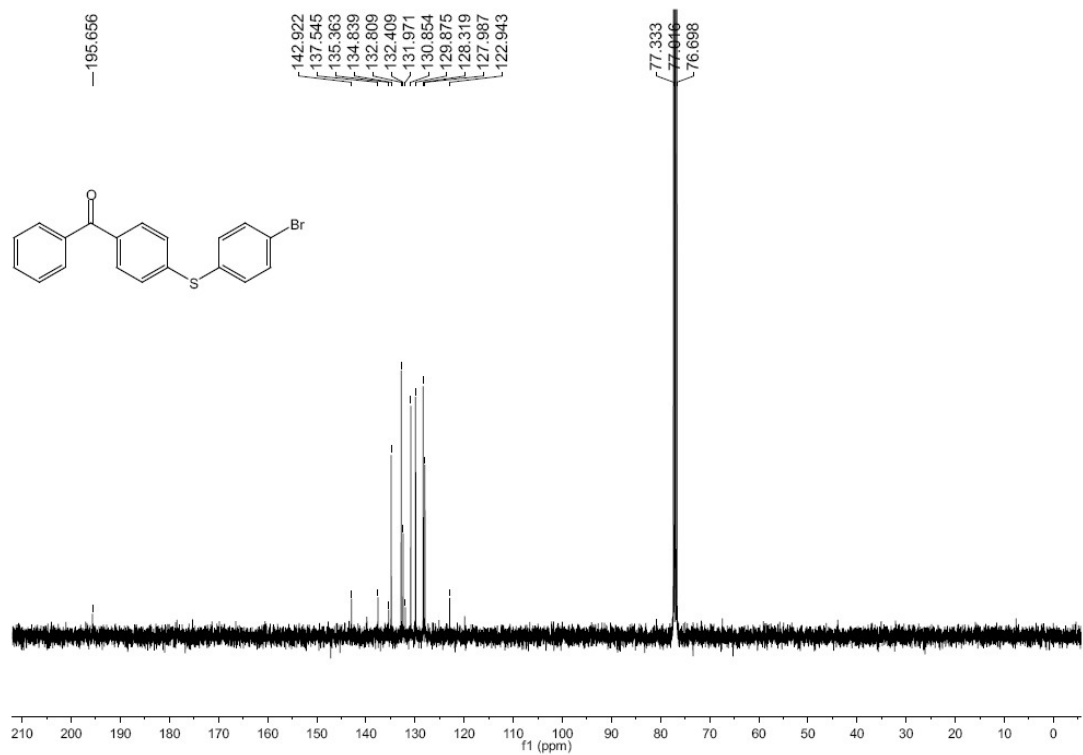
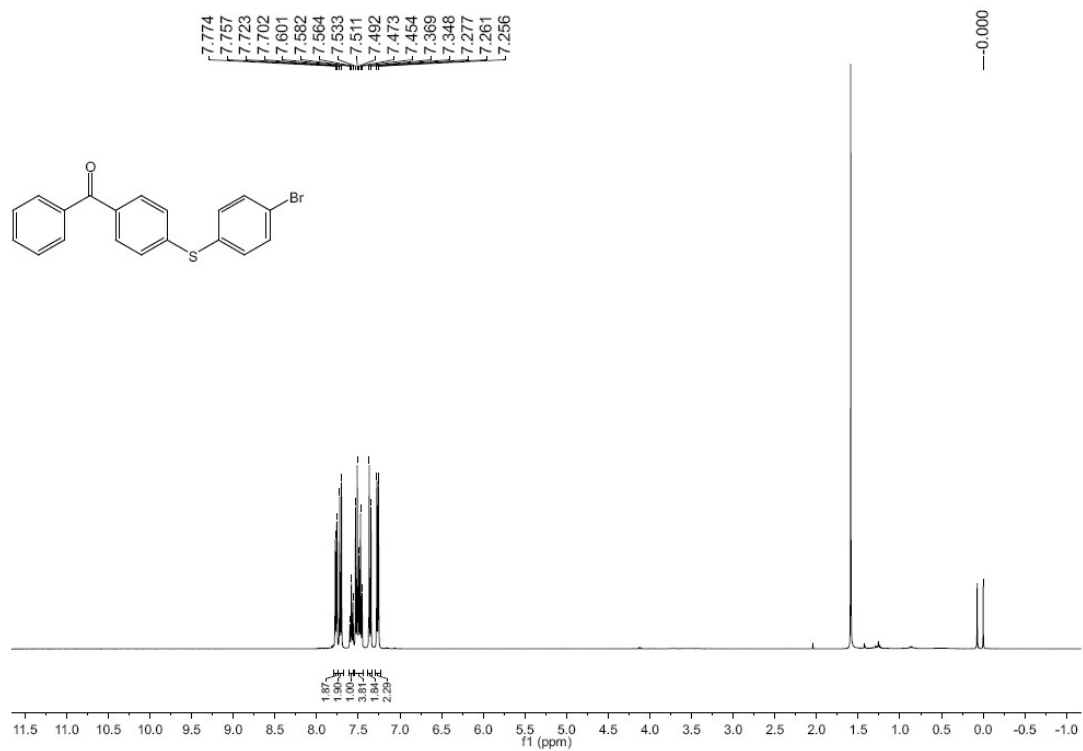
¹H NMR and ¹³C NMR spectra of compounds **4y** (in CDCl₃)



¹H NMR and ¹³C NMR spectra of compounds **4z** (in CDCl₃)



¹H NMR and ¹³C NMR spectra of compounds **4a'** (in CDCl₃)



^1H NMR and ^{13}C NMR spectra of compounds **4c'** (in CDCl_3)