Supplementary Materials: Homocoupling Reaction of Aromatic Terminal Alkynes by a Highly Active Palladium(II)/$AgNO_3$ Cocatalyst in Aqueous Media Under Air

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Characterization

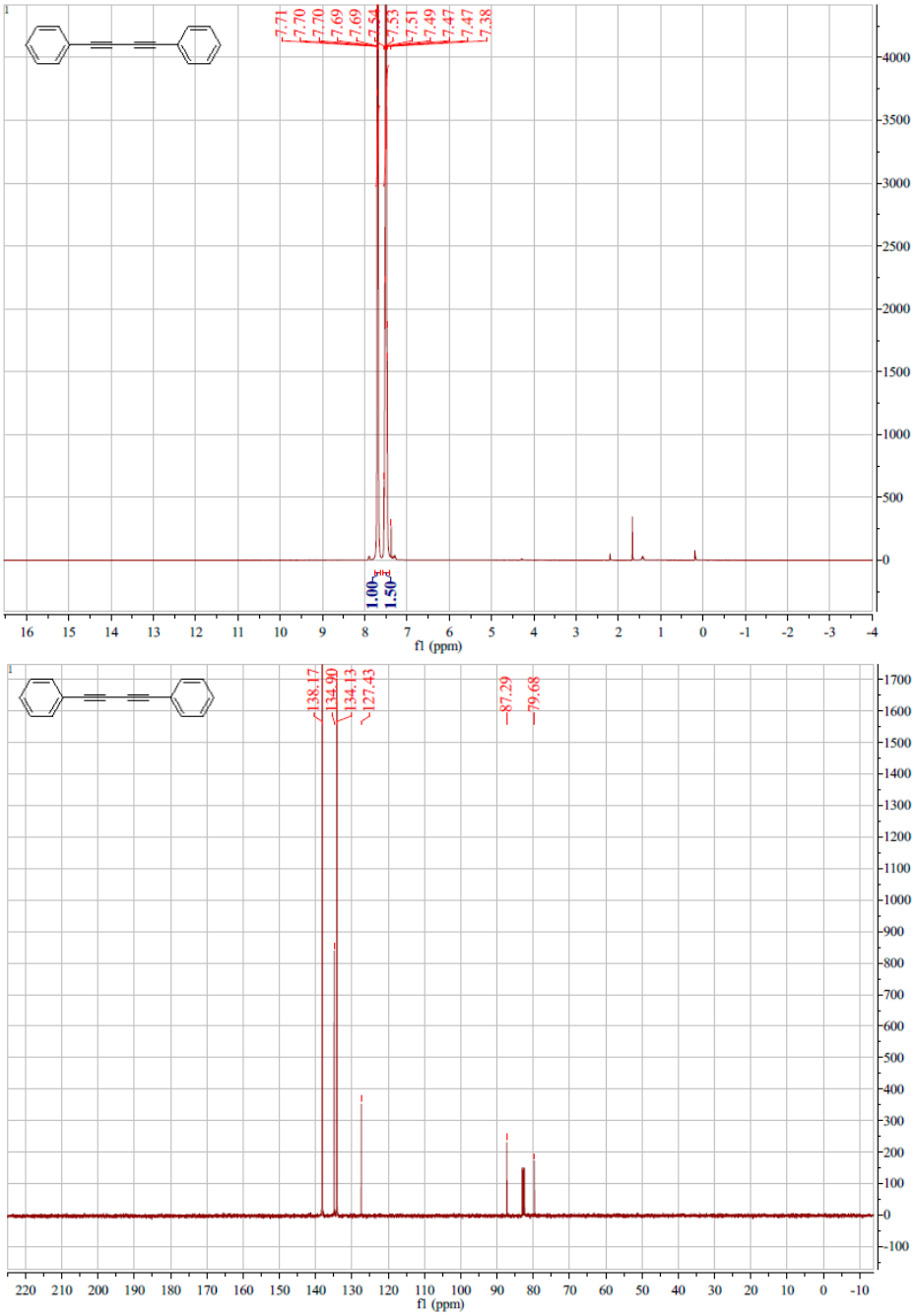

Figure S1. ^{1}H-NMR and ^{13}C-NMR of 1,4-diphenylbuta-1,3-diyne.

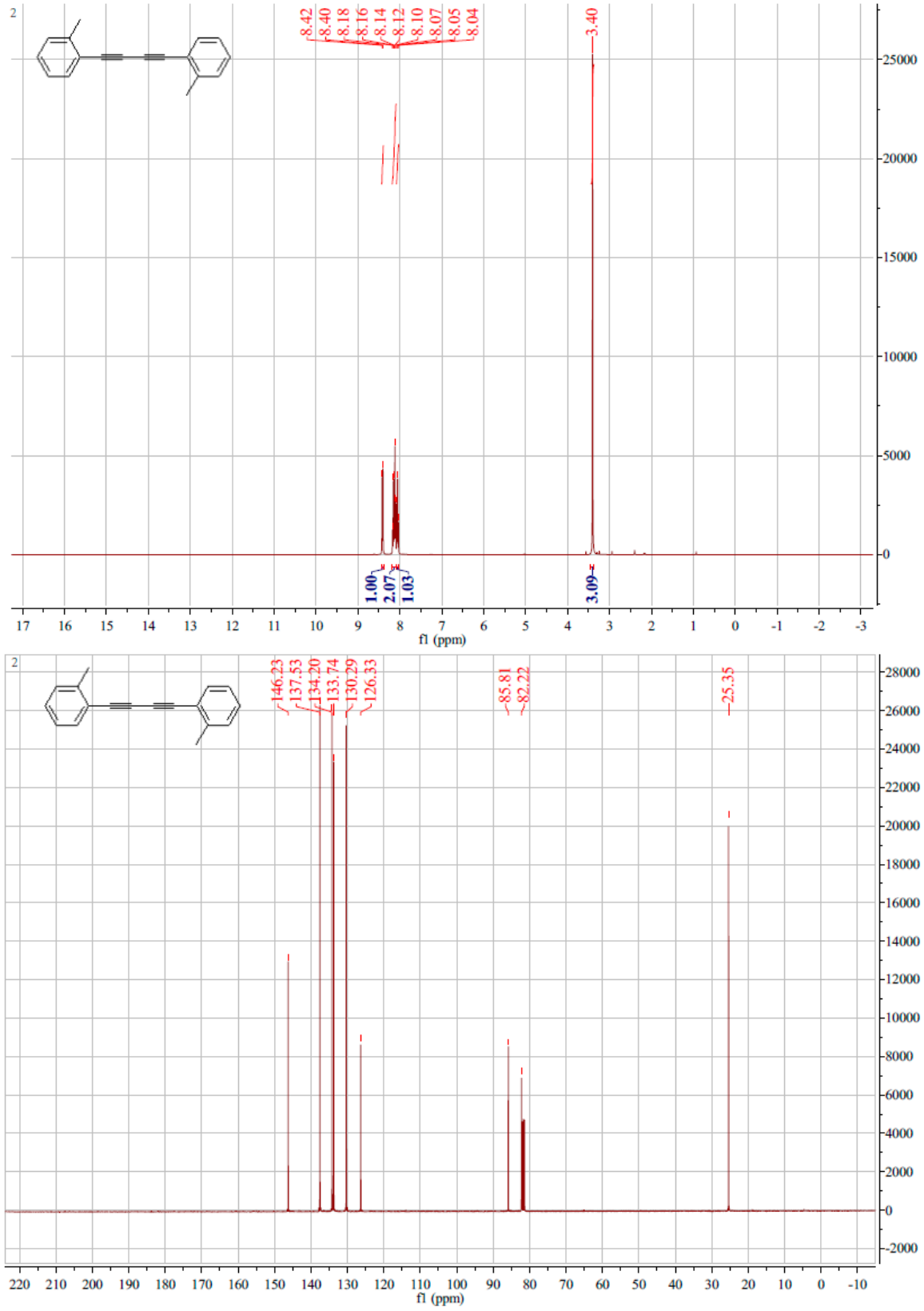

Figure S2. ^{1}H-NMR and ^{13}C-NMR of 1,4-di-*o*-tolybuta-1,3-diyne.

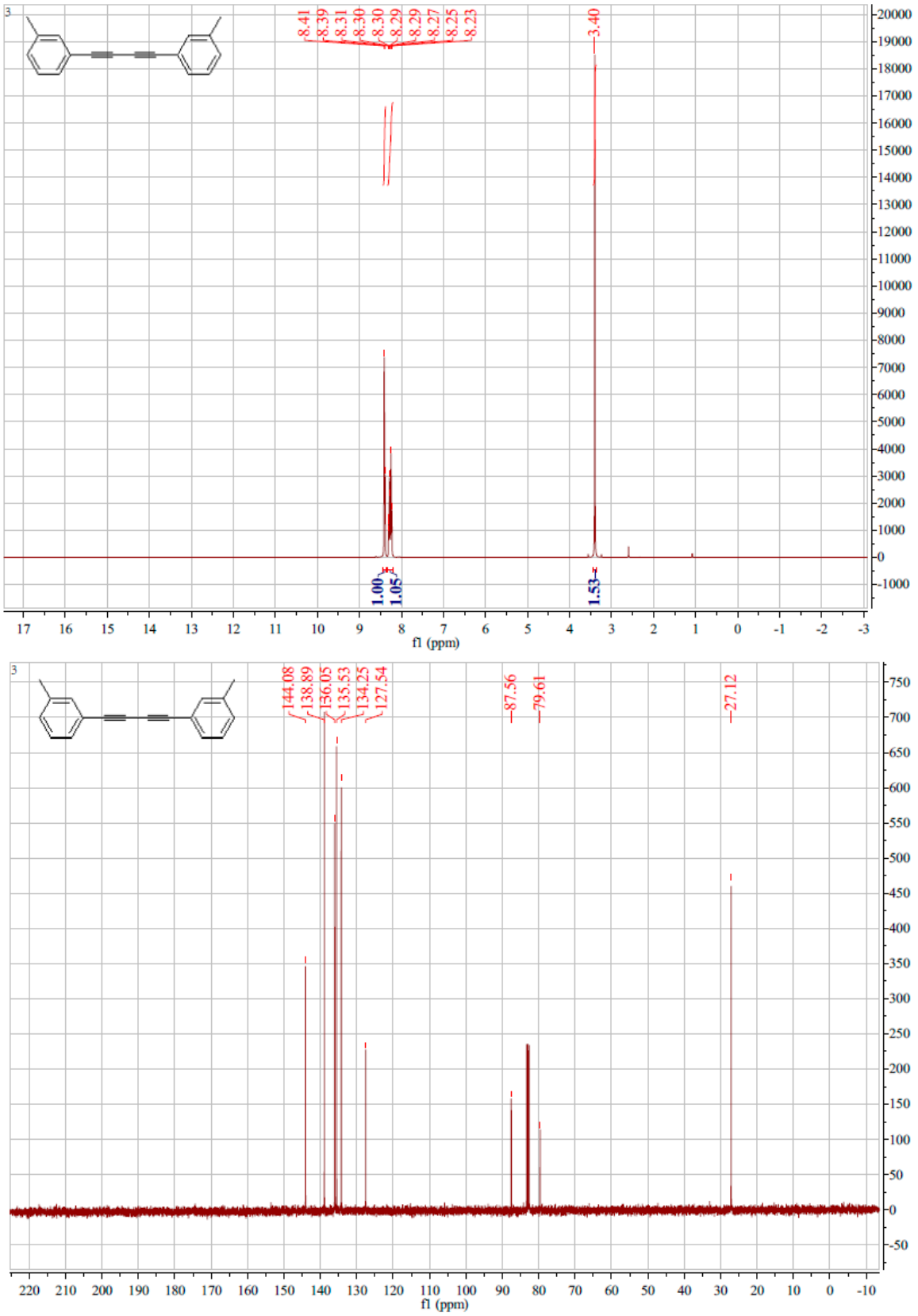

Figure S3. ^{1}H-NMR and ^{13}C-NMR of 1,4-di-*m*-tolybuta-1,3-diyne.

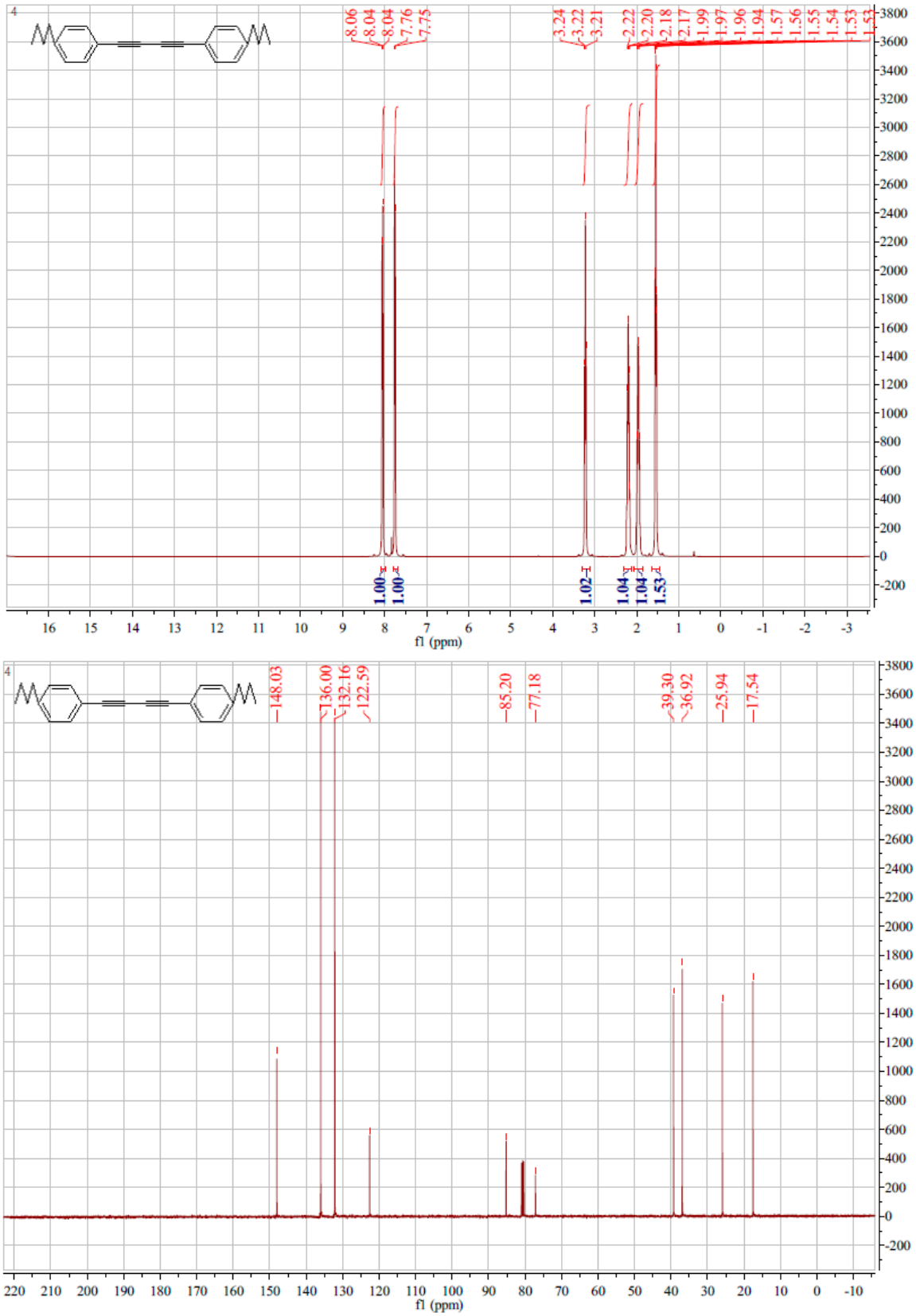

Figure S4. ^{1}H-NMR and ^{13}C-NMR of 1,4-*bis*(4-butylphenyl)buta-1,3-diyne.

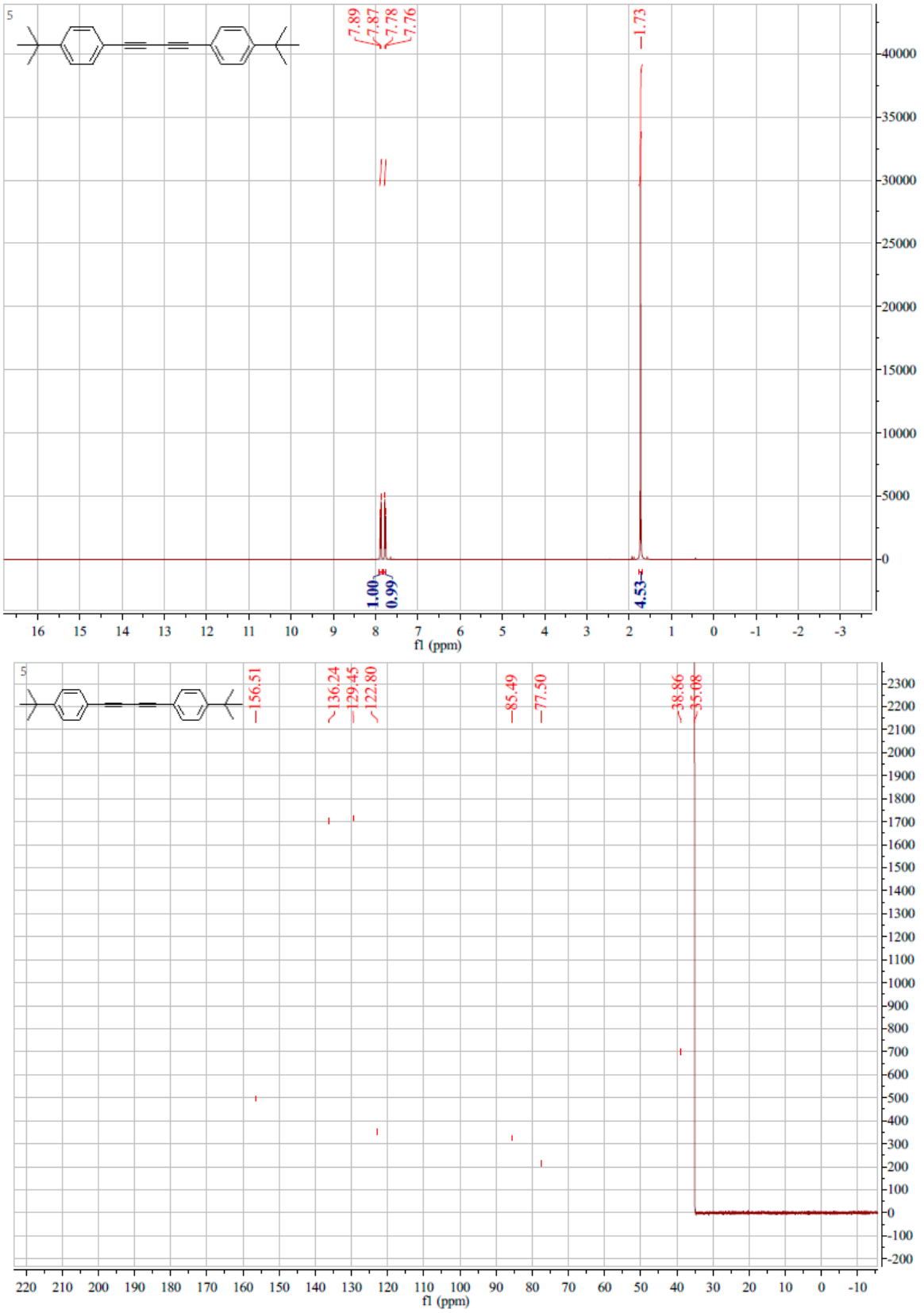

Figure S5. ^{1}H-NMR and ^{13}C-NMR of 1,4-*bis*(4-(tert-butyl)phenyl)buta-1,3-diyne.

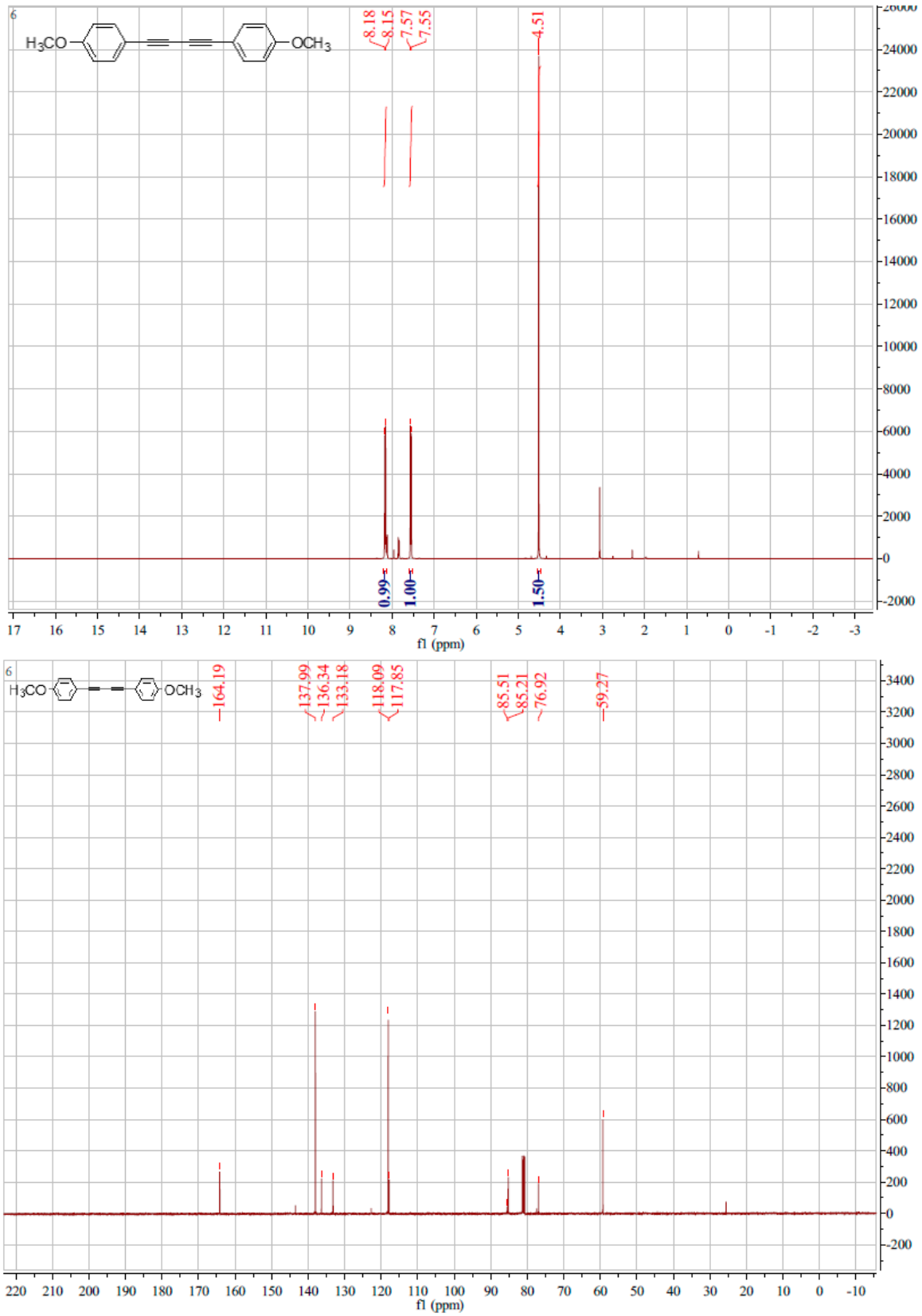

Figure S6. ^{1}H-NMR and ^{13}C-NMR of 1,4-*bis*(4-methoxyphenyl)buta-1,3-diyne.

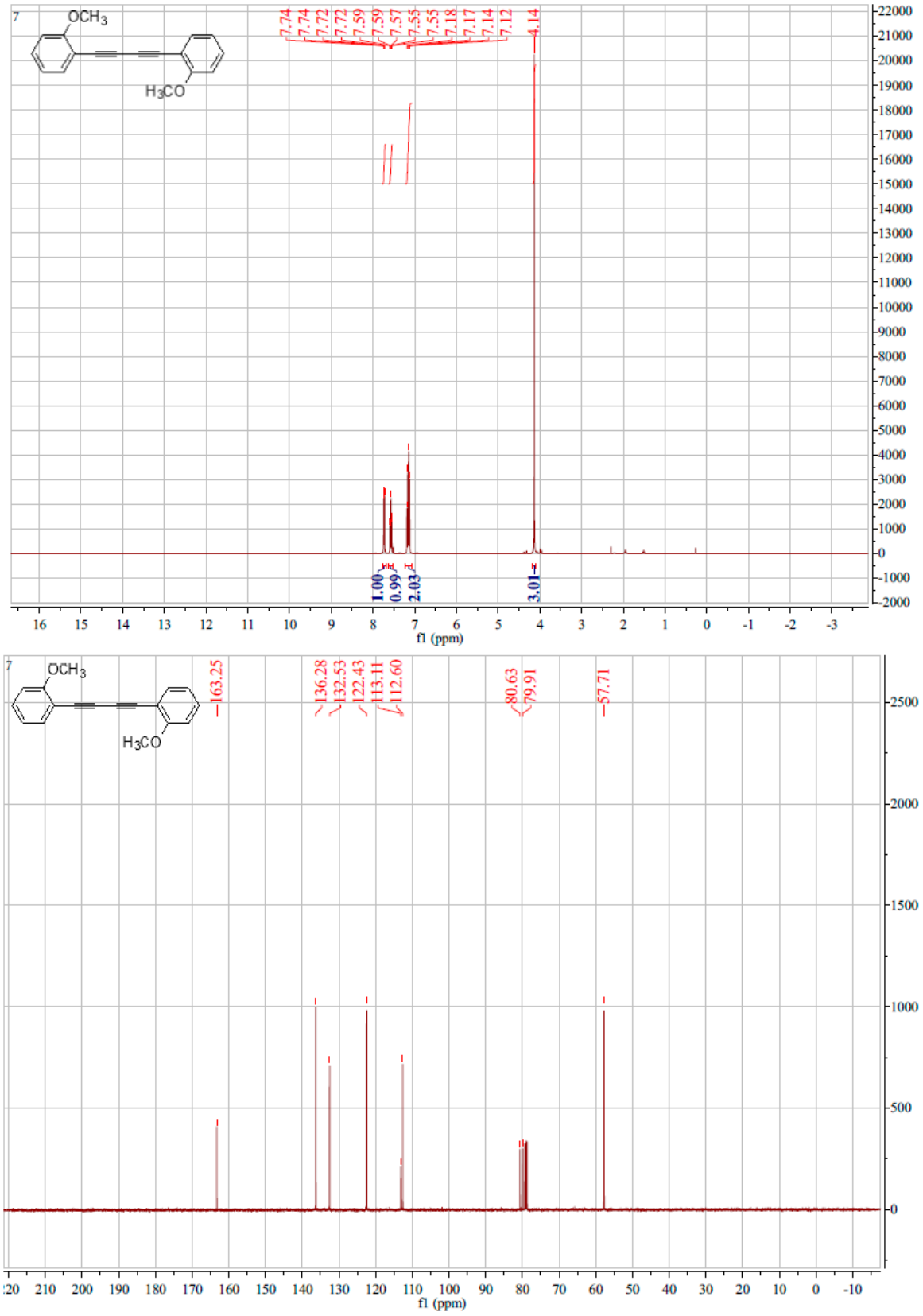

Figure S7. ^{1}H-NMR and ^{13}C-NMR of 1,4-*bis*(3-methoxyphenyl)buta-1,3-diyne

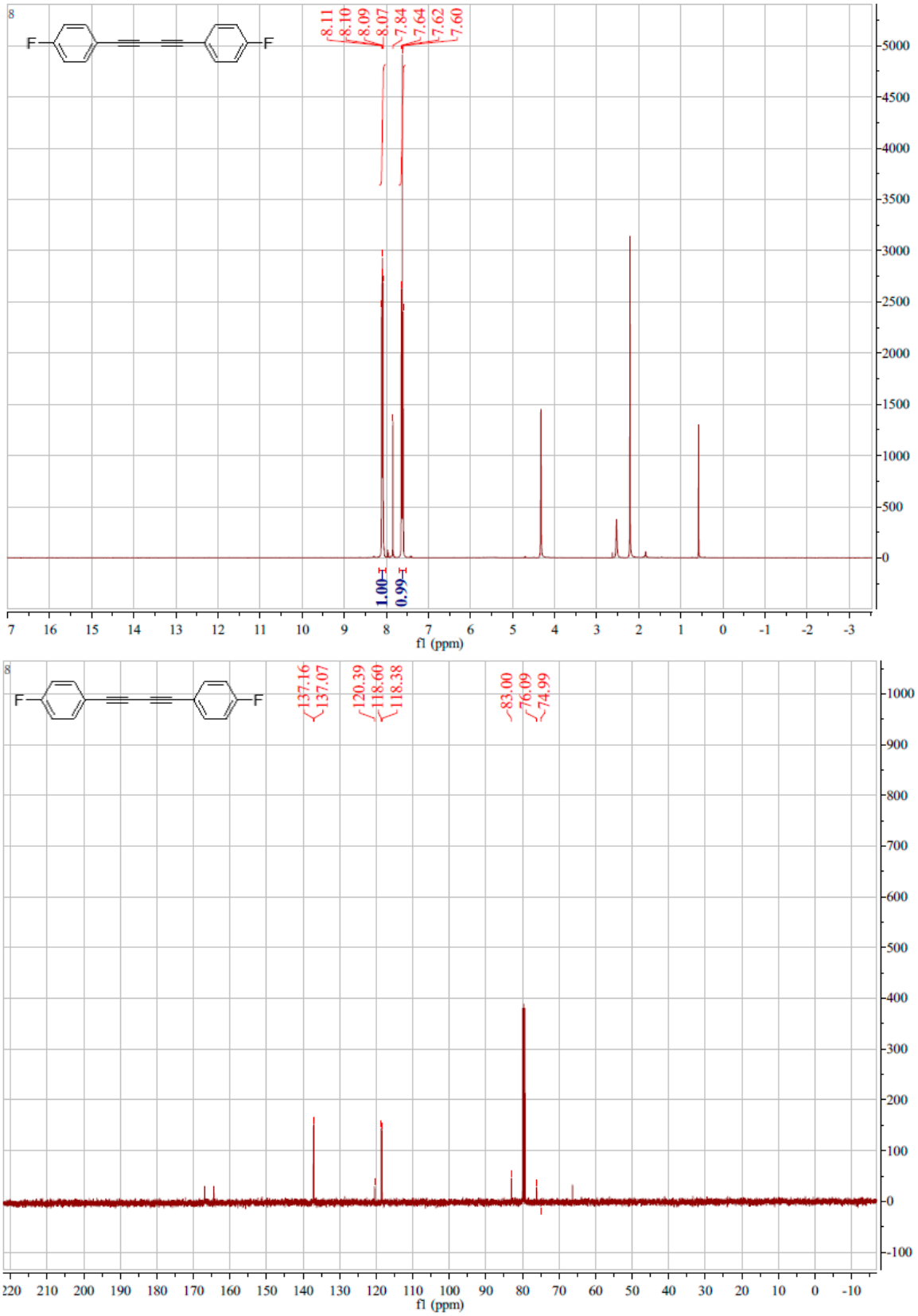

Figure S8. ^{1}H-NMR and ^{13}C-NMR of 1,4-*bis*(4-fluorophenyl)buta-1,3-diyne.

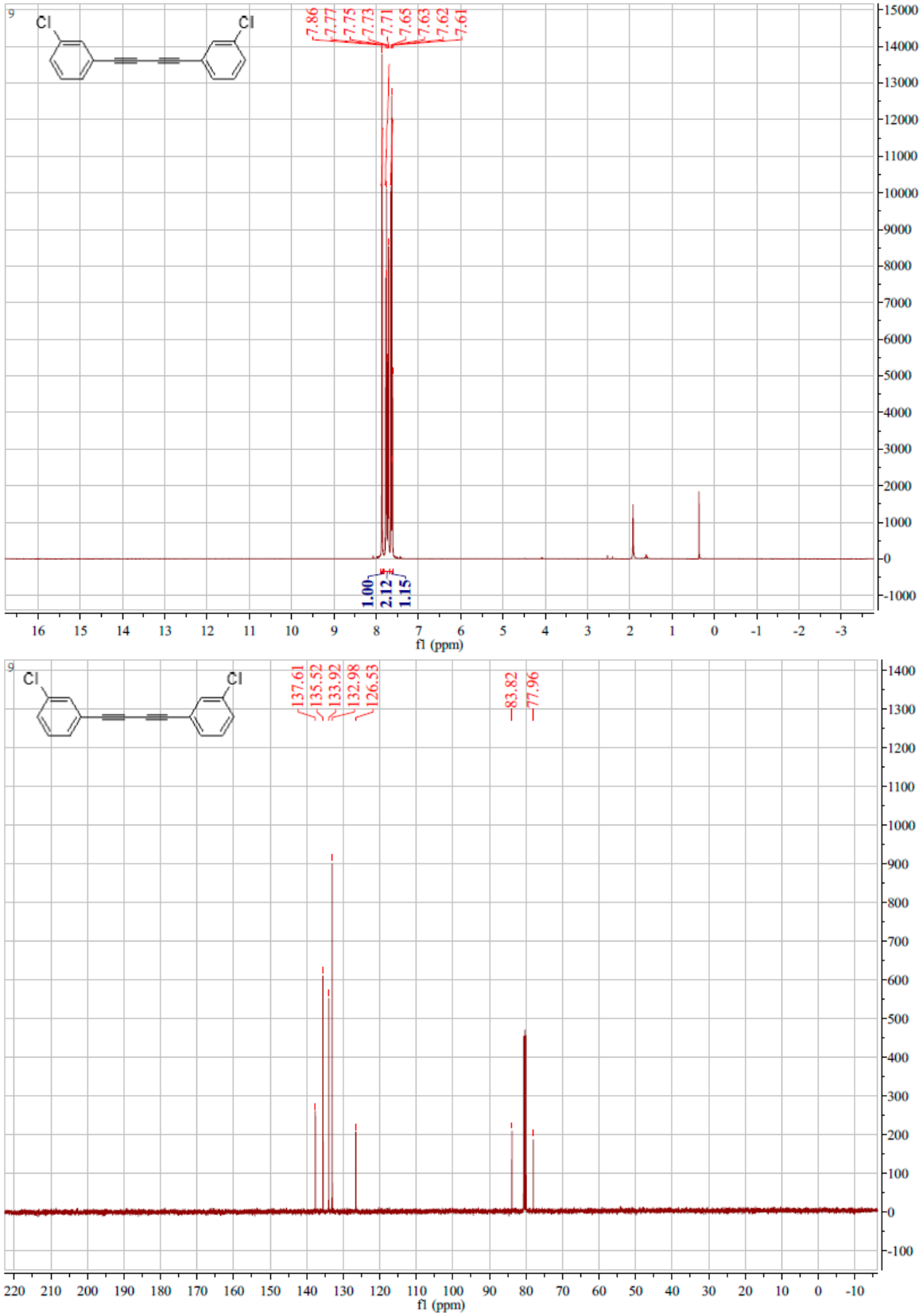

Figure S9. ^{1}H-NMR and ^{13}C-NMR of 1,4-*bis*(3-chlorophenyl)buta-1,3-diyne.

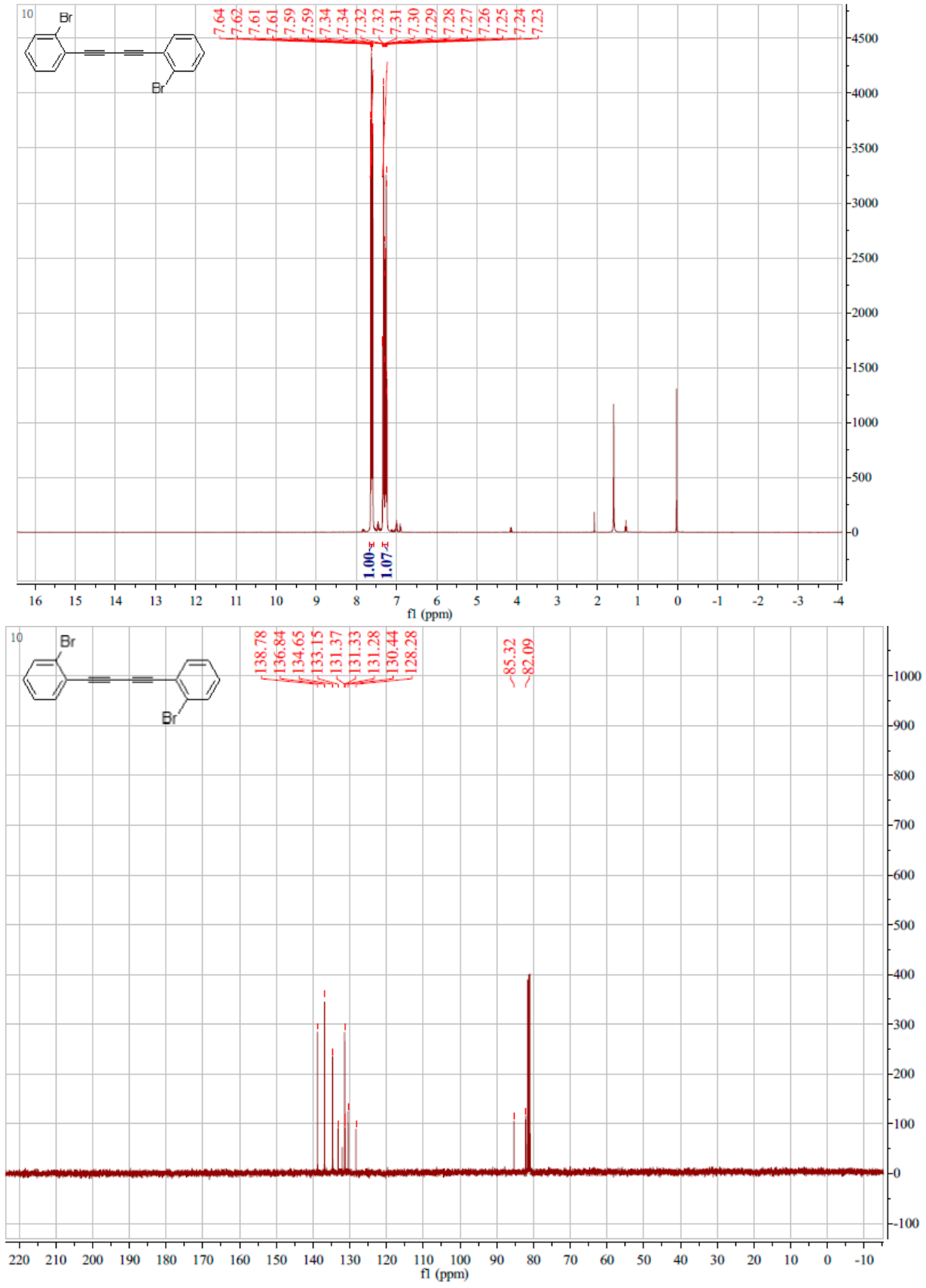

Figure S10. ^{1}H-NMR and ^{13}C-NMR of 1,4-*bis*(3-chlorophenyl)buta-1,3-diyne.