

Supplementary Information

Figure S1. ^1H -NMR of compound 3a.

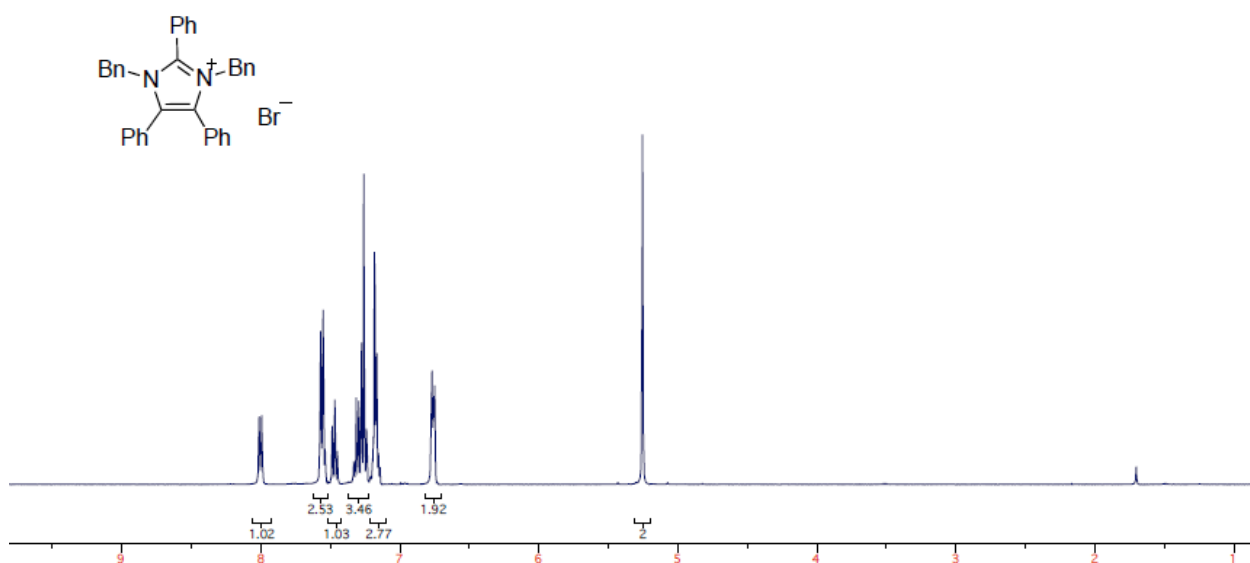


Figure S2. ^{13}C -NMR of compound 3a.

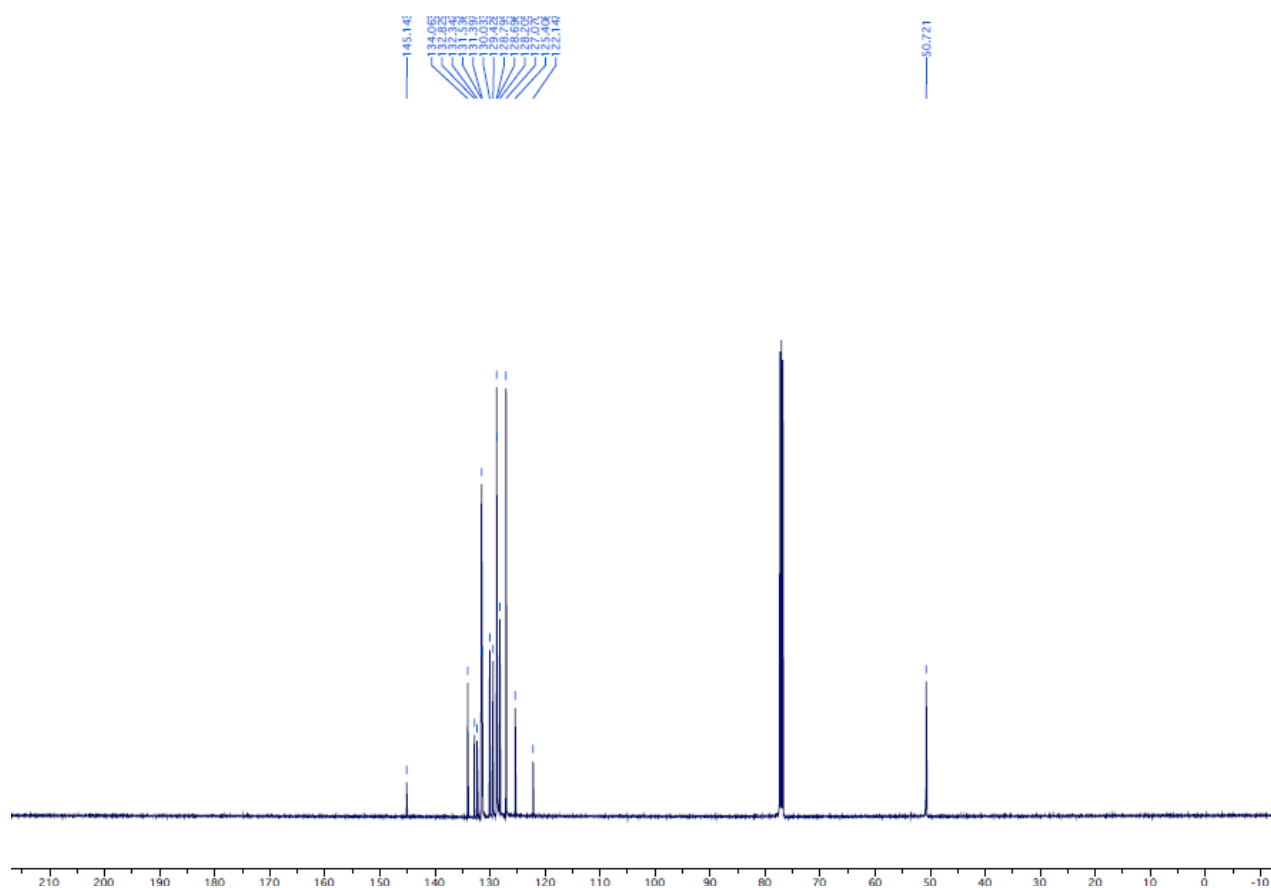


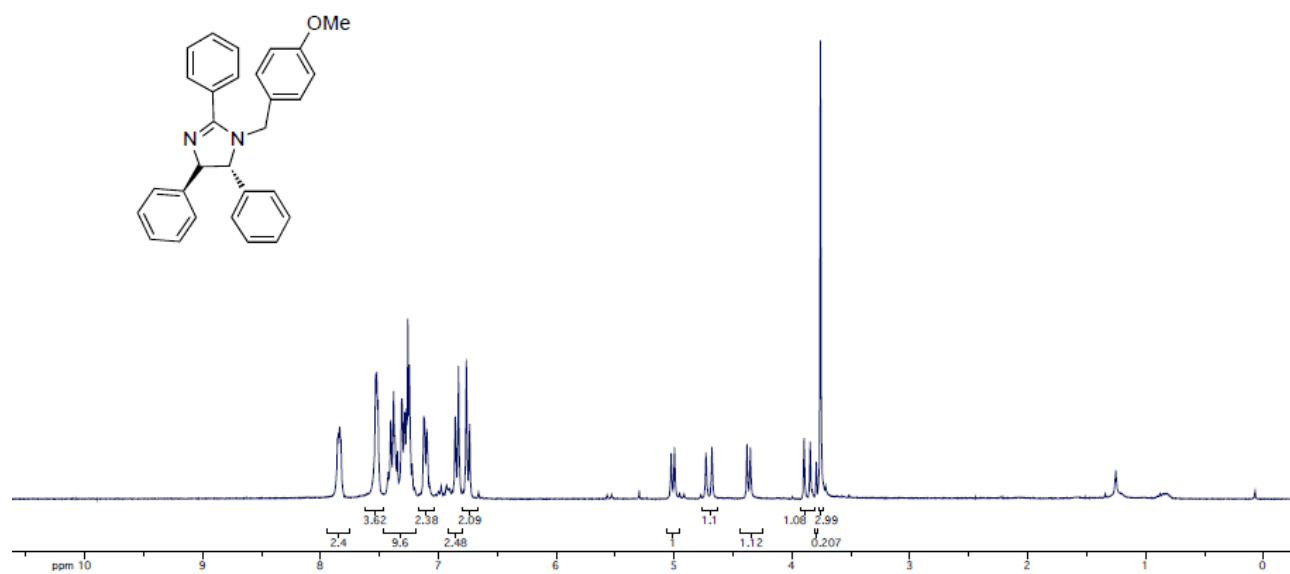
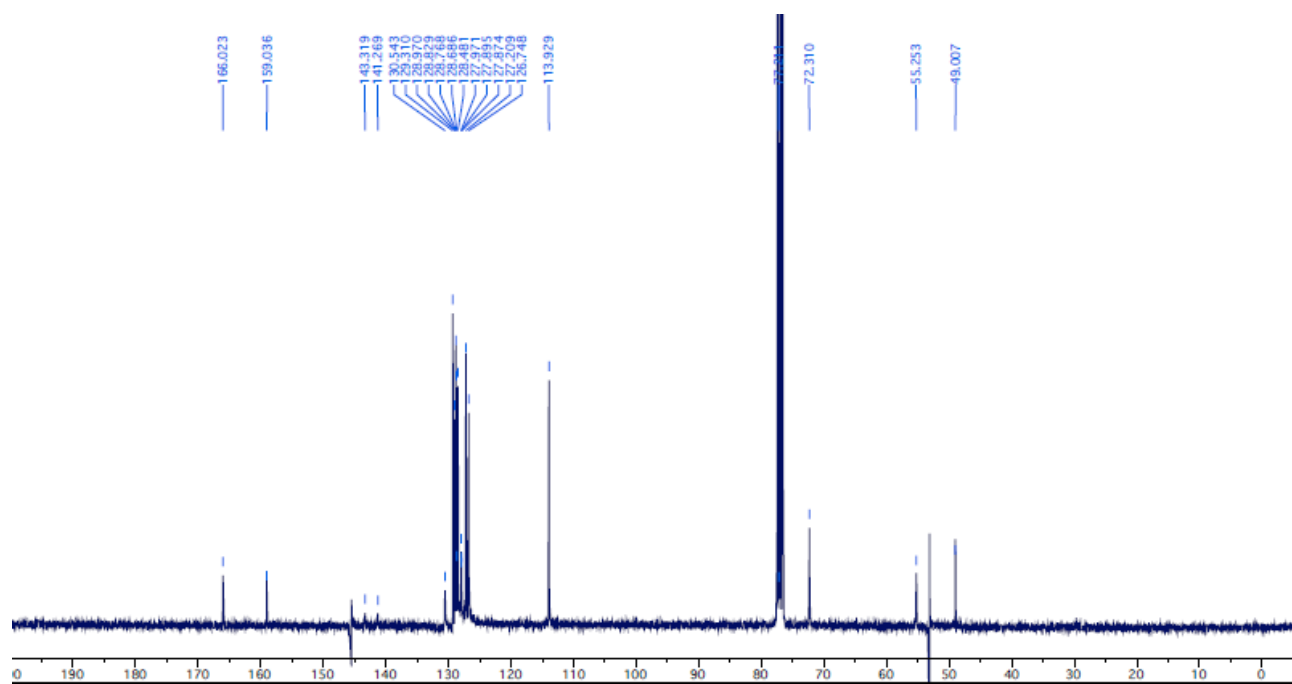
Figure S3. ^1H -NMR of compound **4b**.**Figure S4.** ^{13}C -NMR of compound **4b**.

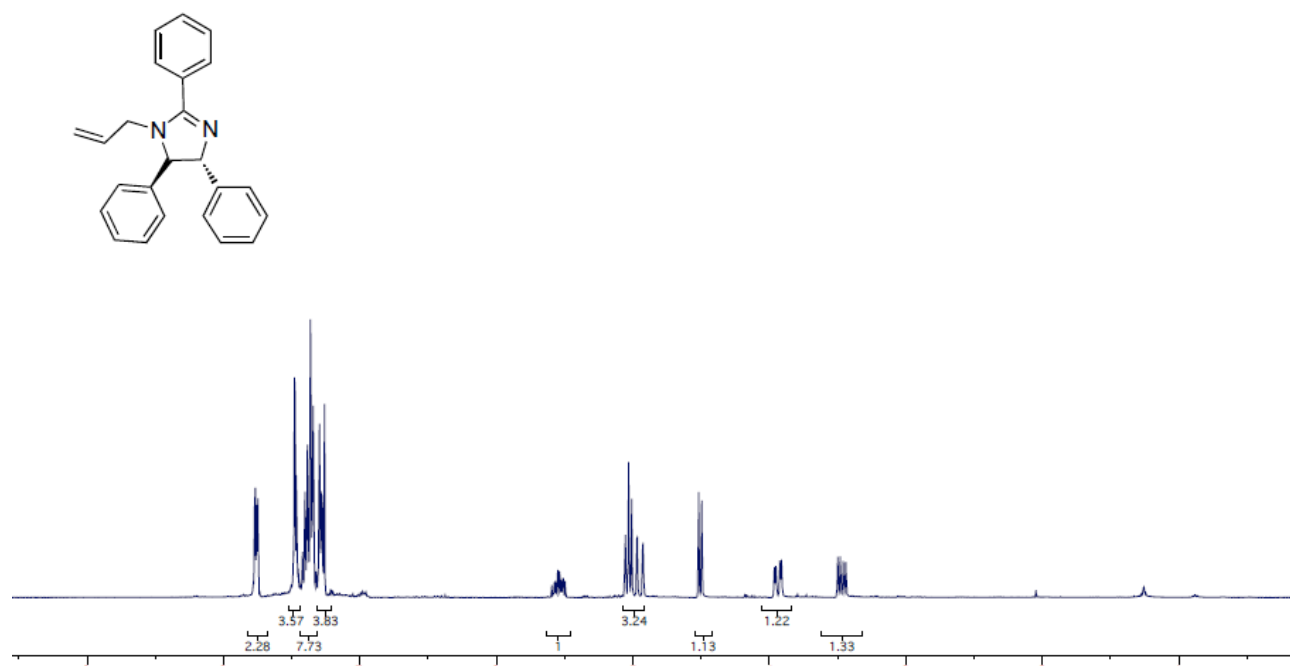
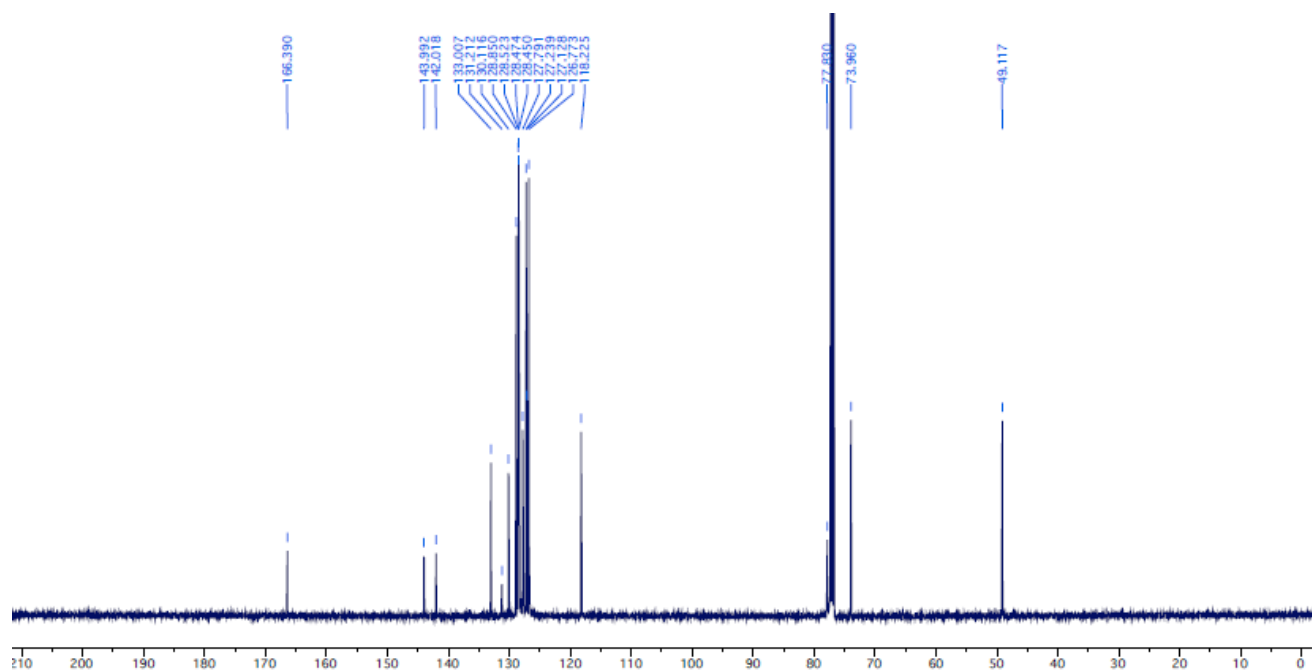
Figure S5. ^1H -NMR of compound **5b**.**Figure S6.** ^{13}C -NMR of compound **5b**.

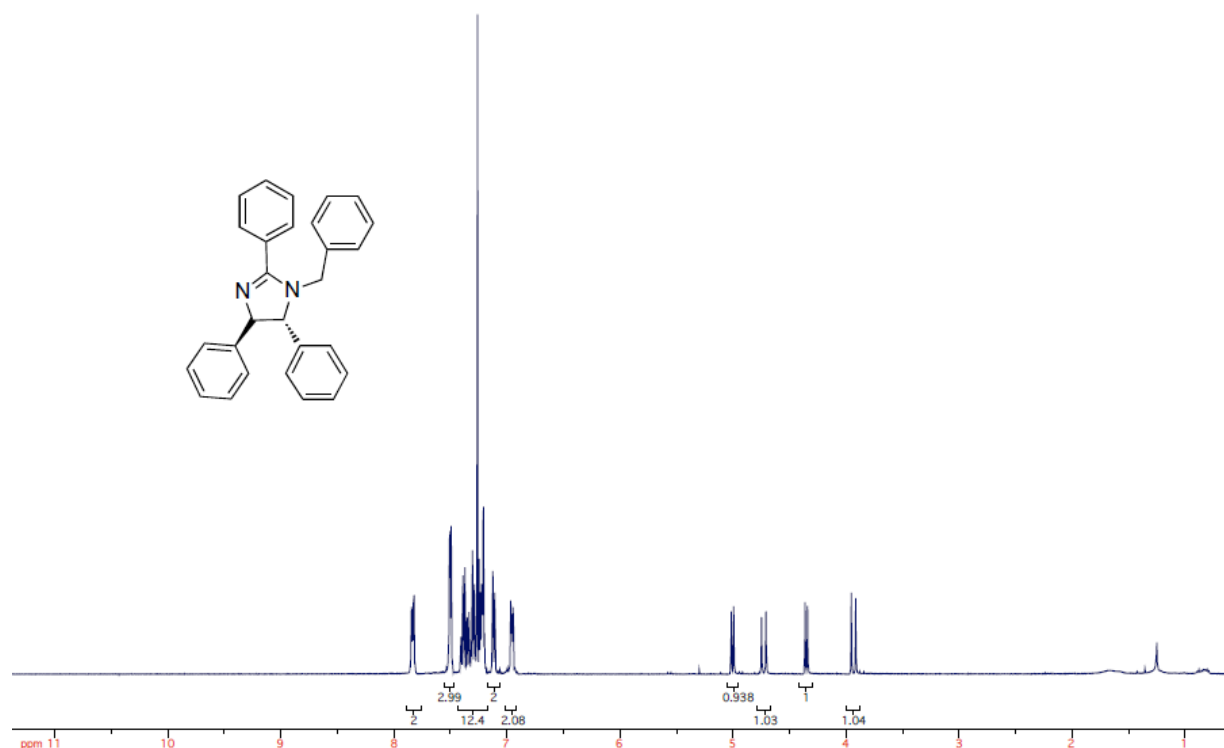
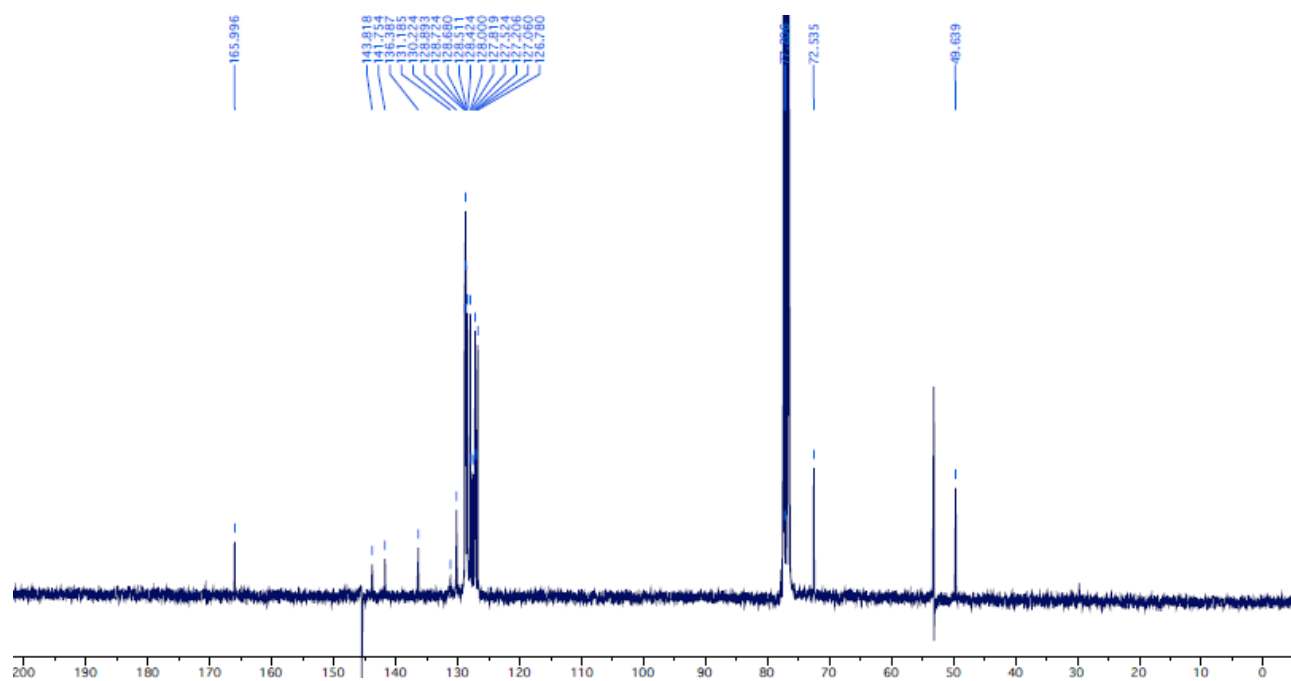
Figure S7. ^1H -NMR of compound **4c**.**Figure S8.** ^{13}C -NMR of compound **4c**.

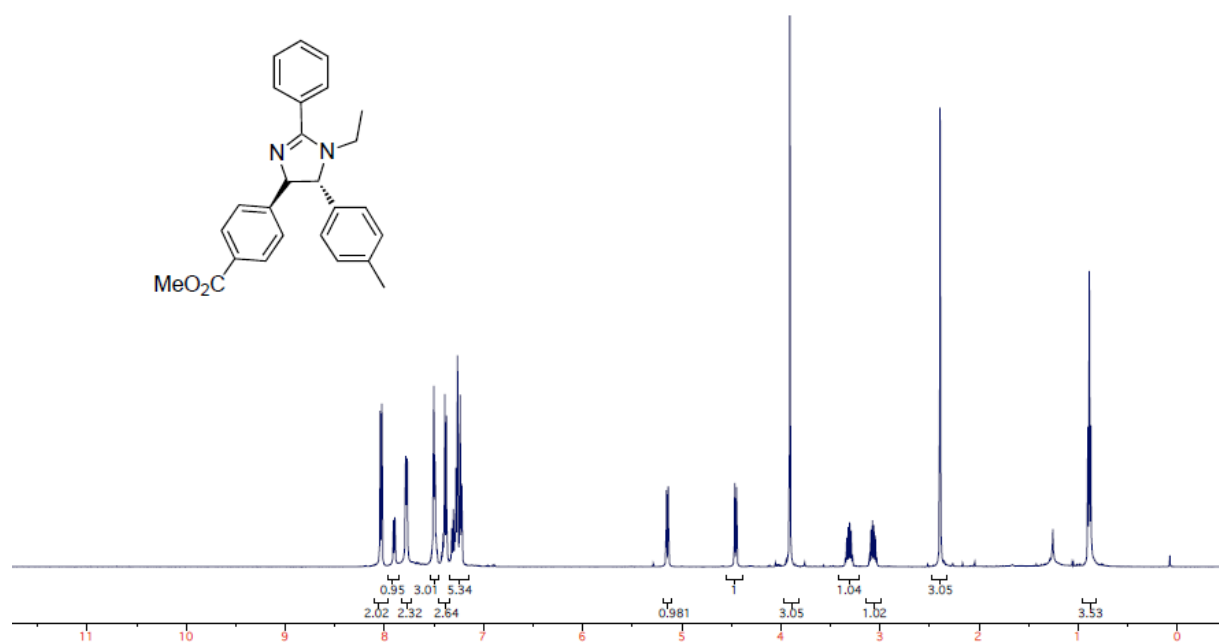
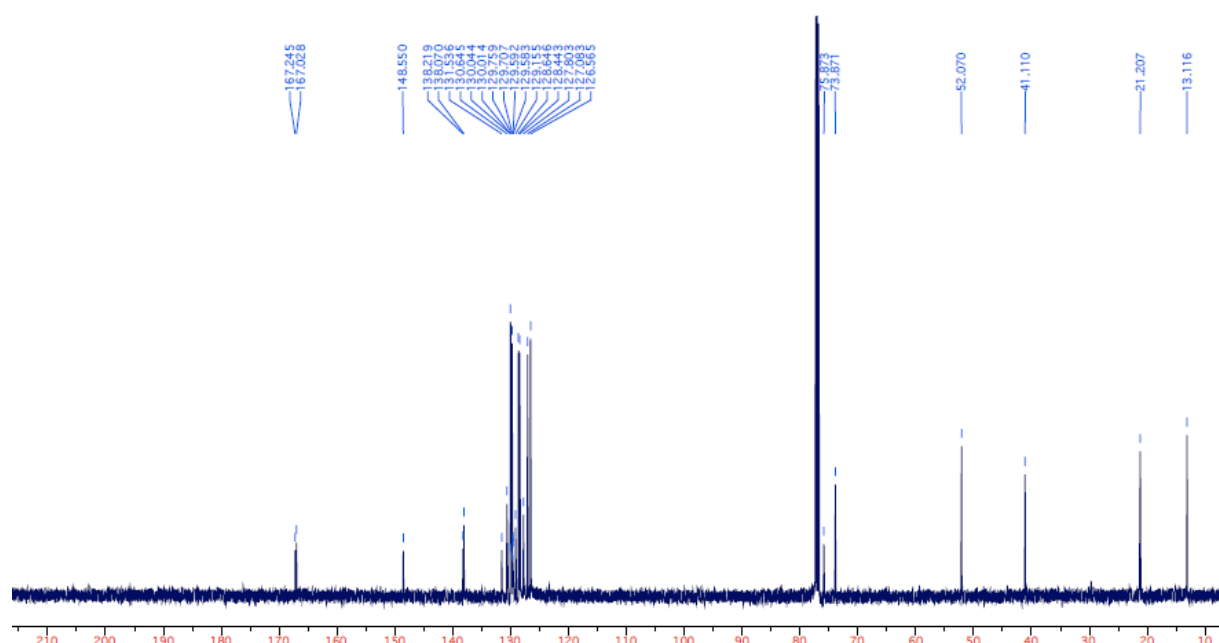
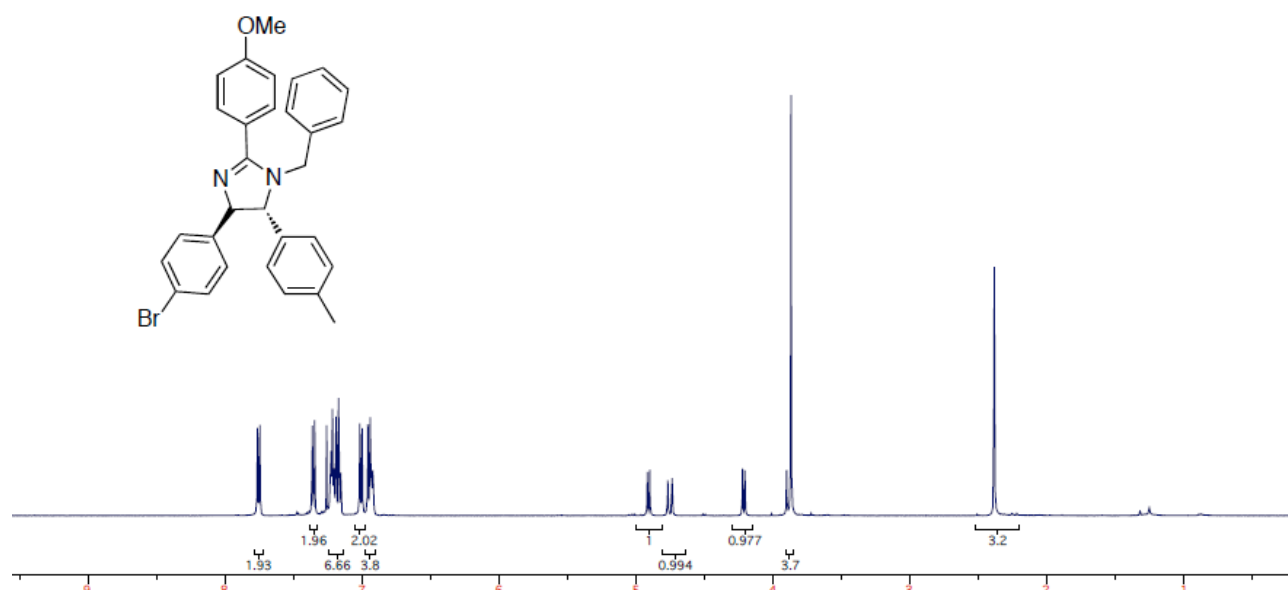
Figure S9. ^1H -NMR of compound 4d.**Figure S10.** ^{13}C -NMR of compound 4d.

Figure S11. ^1H -NMR of compound **4e**.**Figure S12.** ^{13}C -NMR of compound **4e**.