

Supporting information

Copper supported modified magnetic carrageenan as a bio-based catalyst for the Synthesis of novel scaffolds bearing 1,2,3-triazole unit through click reaction

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Mohammad Mahdavi¹, Mohammad Hosein Sayahi^{3*}, Shahrzad Javanshir^{2*}

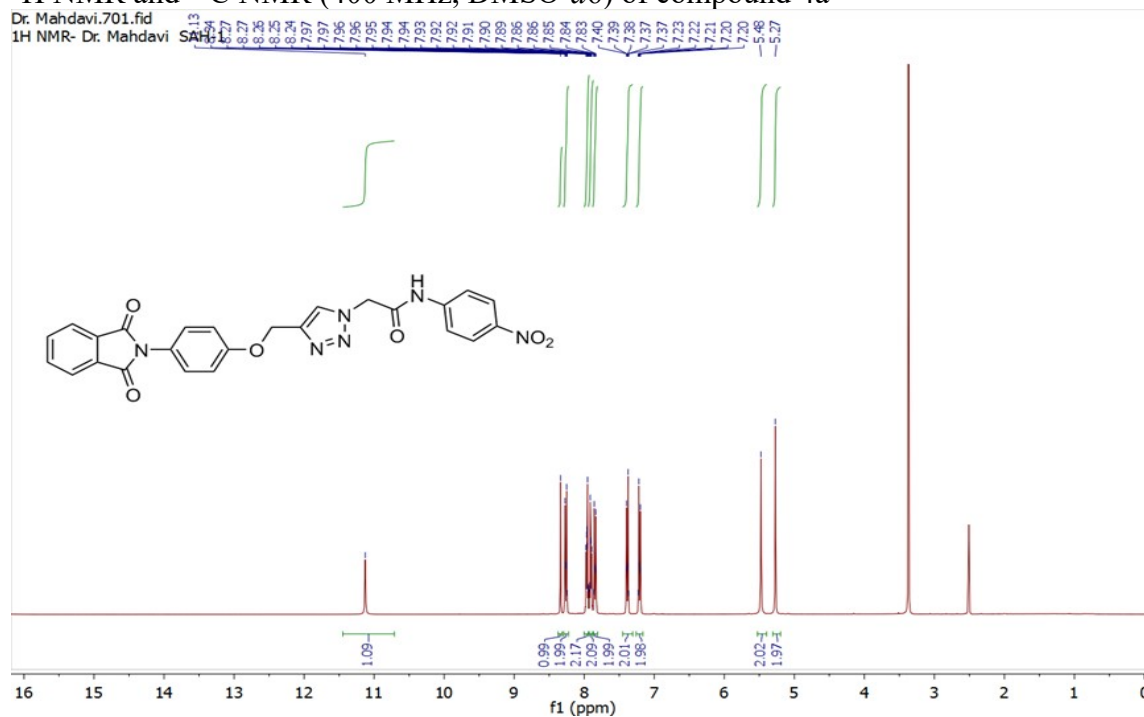
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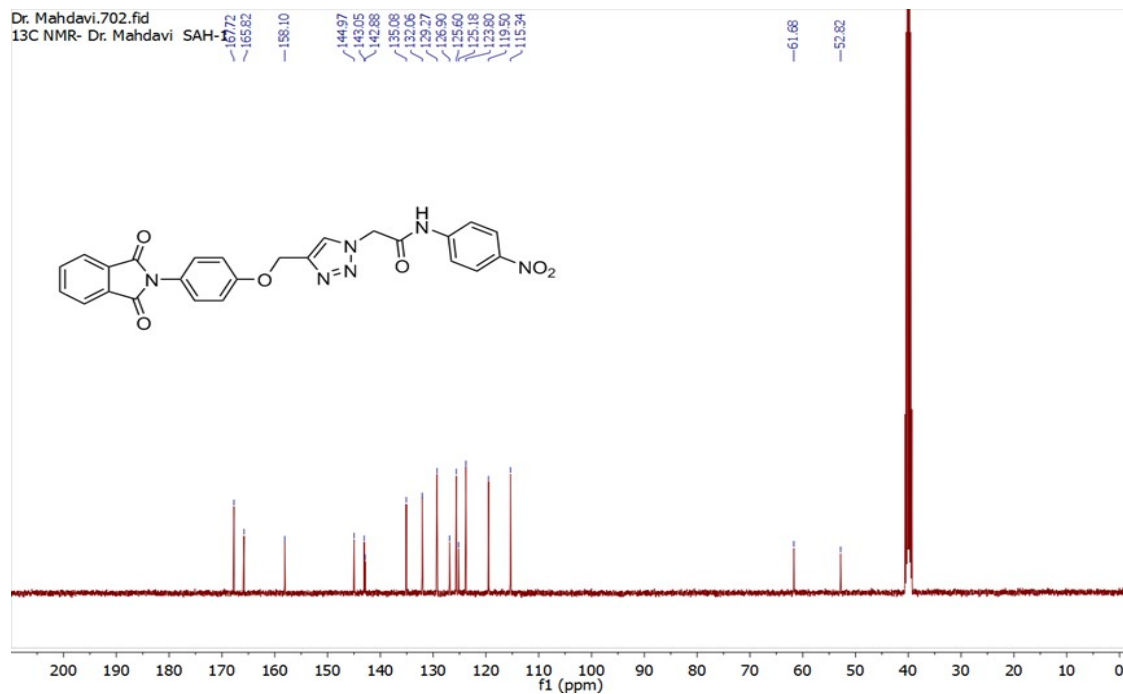
³Department of Chemistry, Payame Noor University, Tehran, Iran

^1H NMR and ^{13}C NMR (400 MHz, $\text{DMSO-}d_6$) of compound 4a

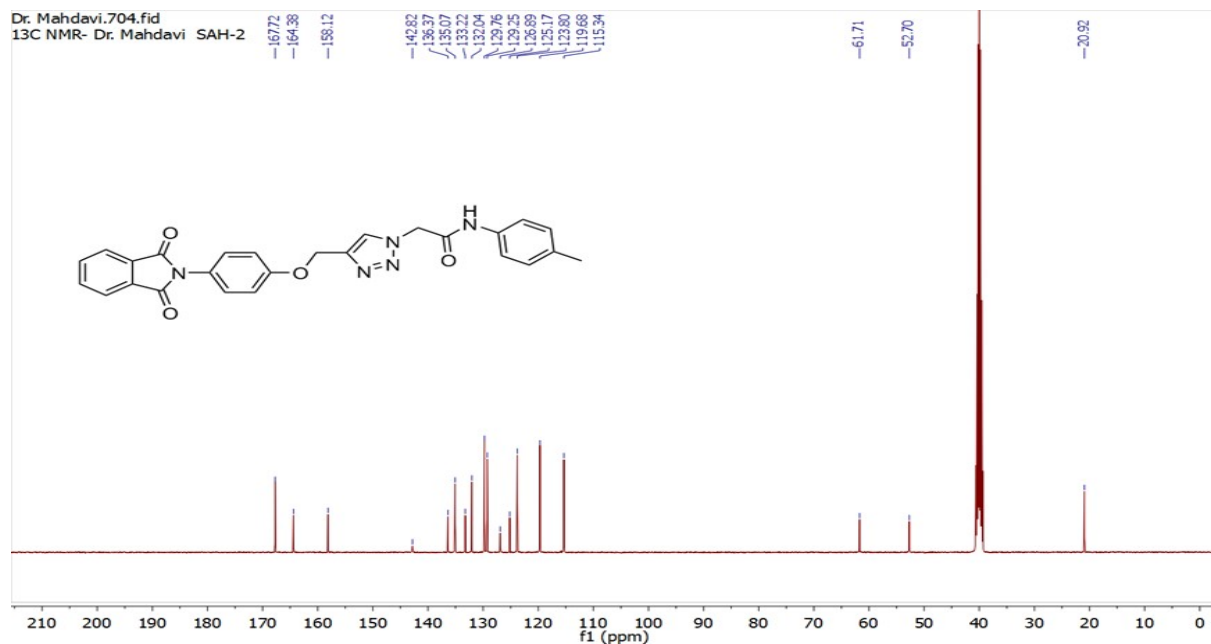
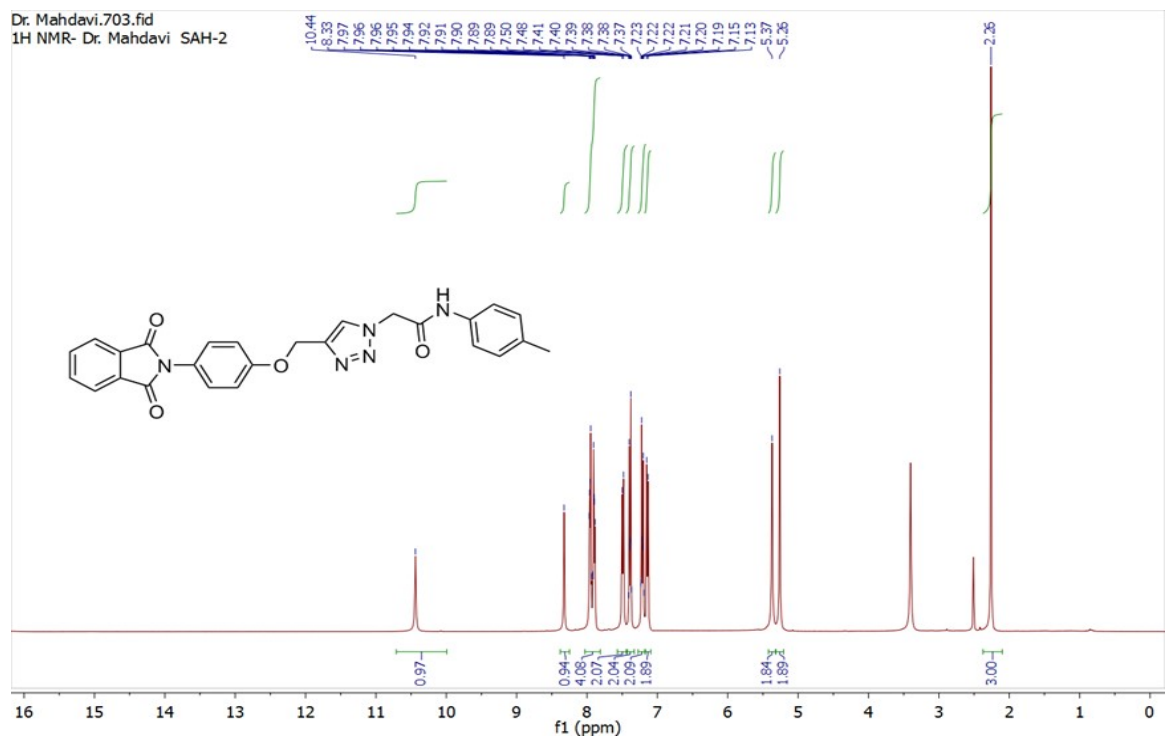
Dr. Mahdavi.701.fid
1H NMR- Dr. Mahdavi SAH-



Dr. Mahdavi.702.fid
13C NMR- Dr. Mahdavi SAH-

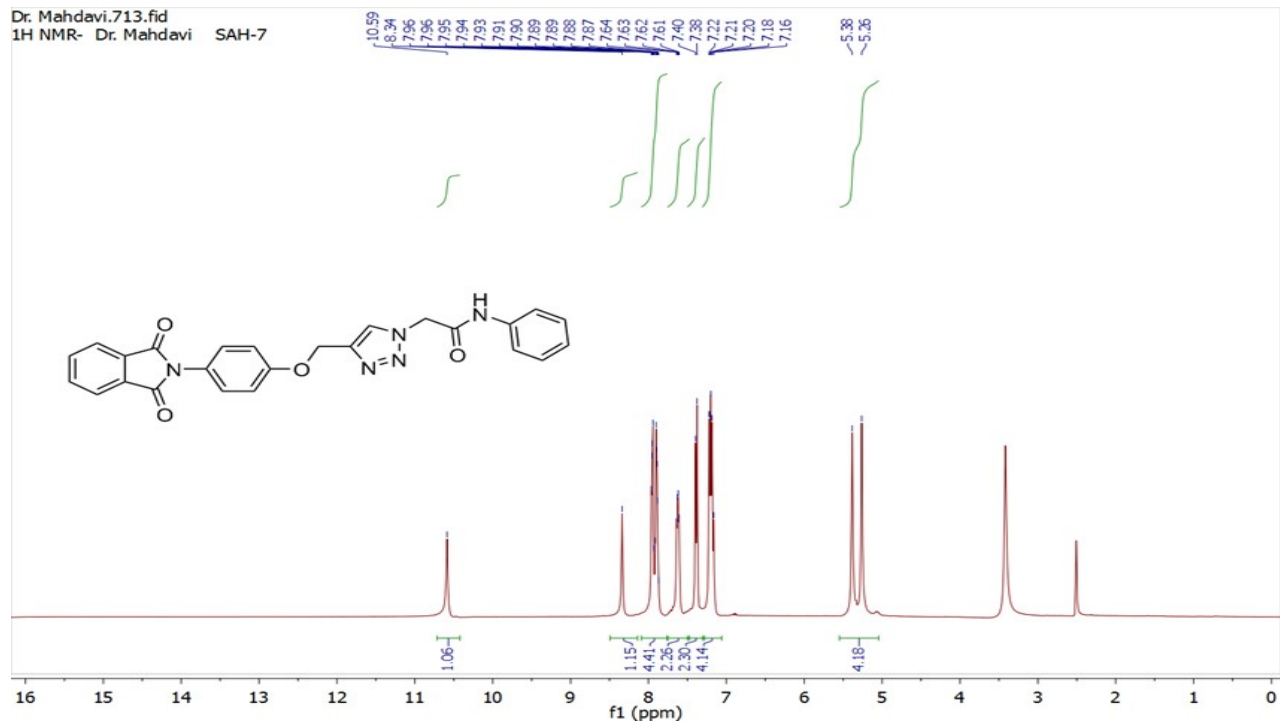


^1H NMR and ^{13}C NMR (400 MHz, $\text{DMSO-}d_6$) of compound 4b

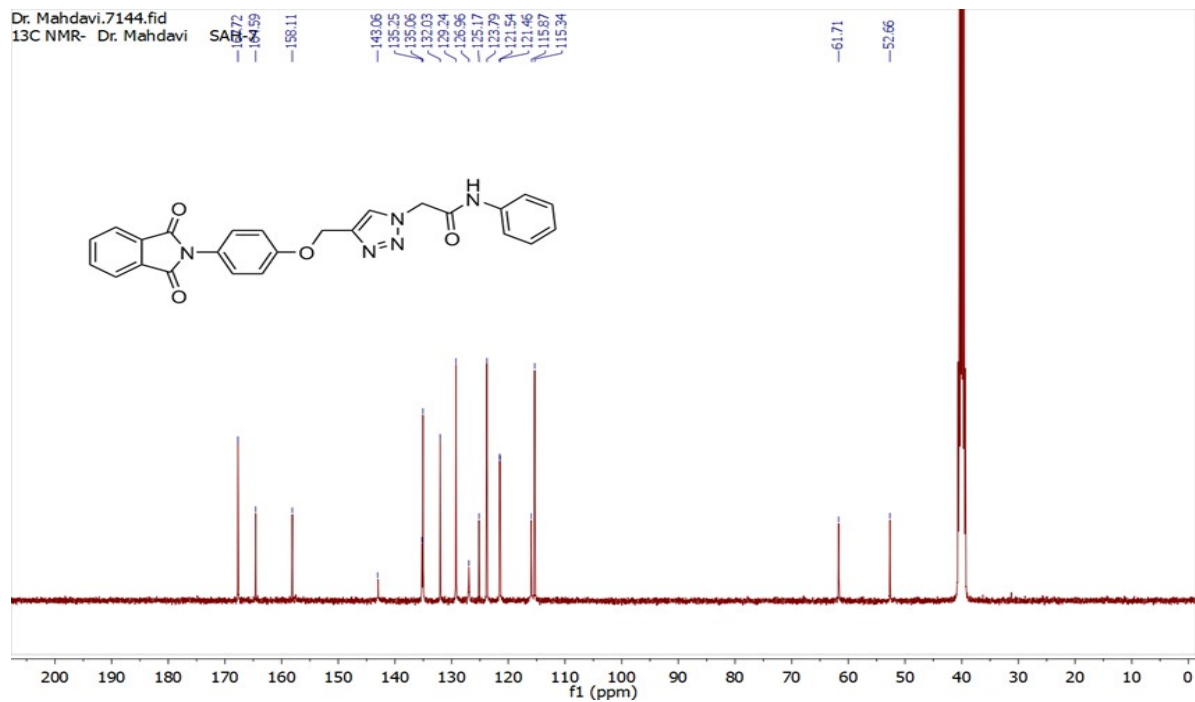


^1H NMR and ^{13}C NMR (400 MHz, $\text{DMSO-}d_6$) of compound 4c

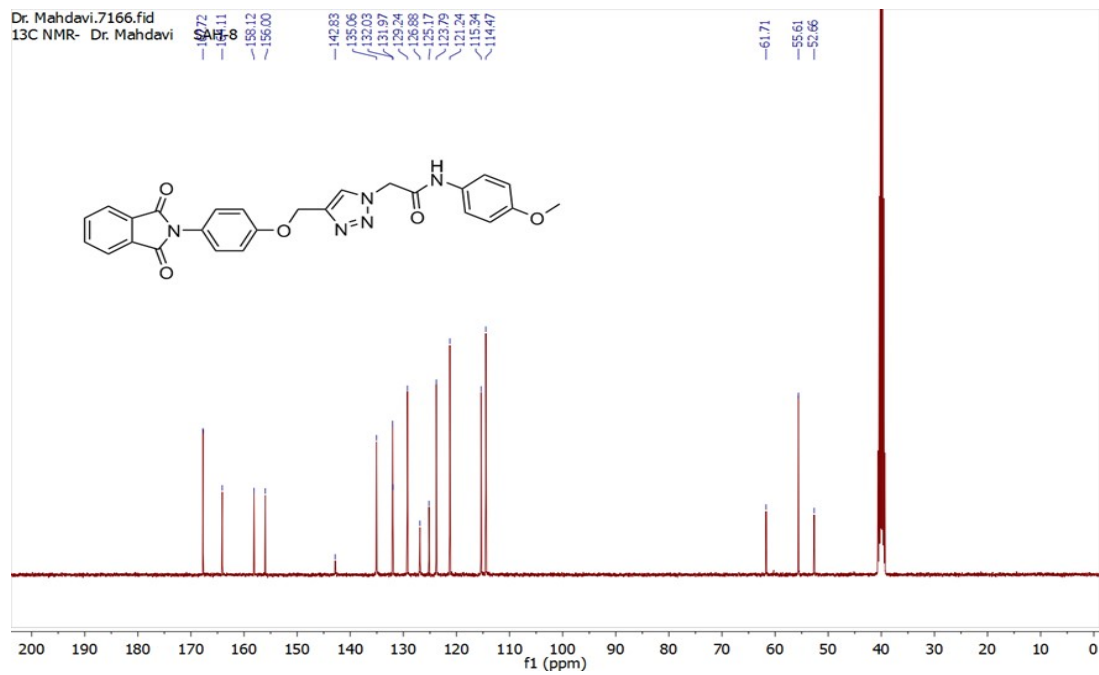
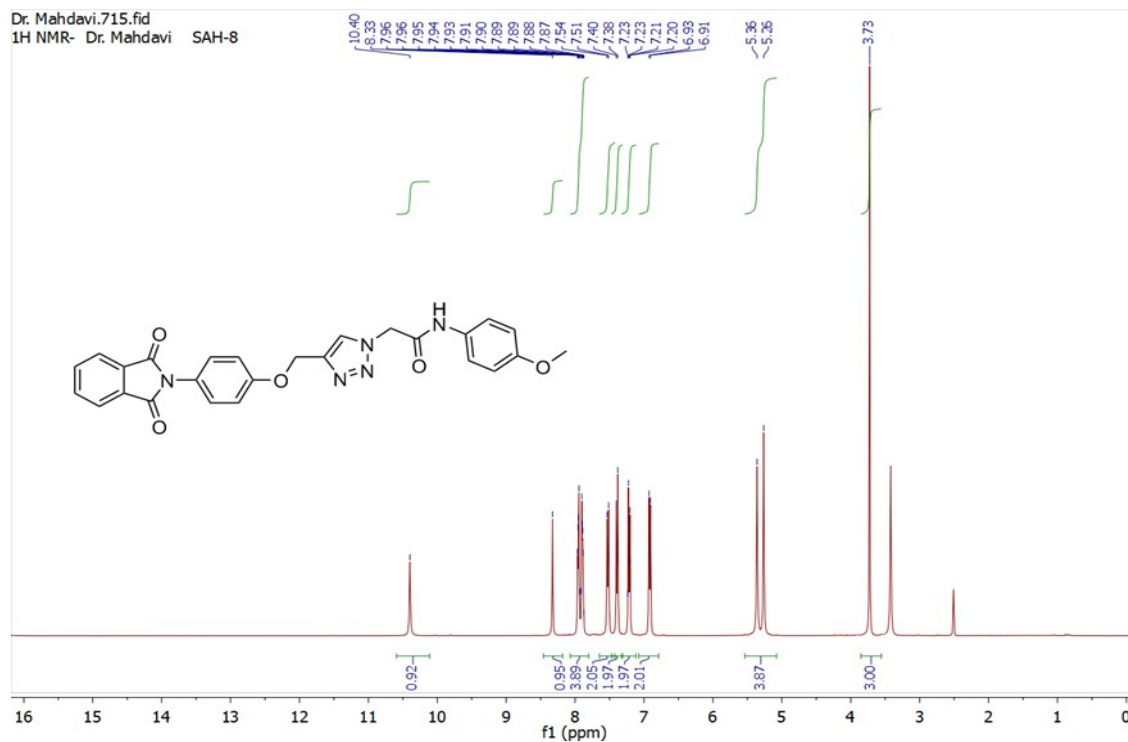
Dr. Mahdavi.713.fid
1H NMR- Dr. Mahdavi SAH-7



Dr. Mahdavi.7144.fid
13C NMR- Dr. Mahdavi SAH-7

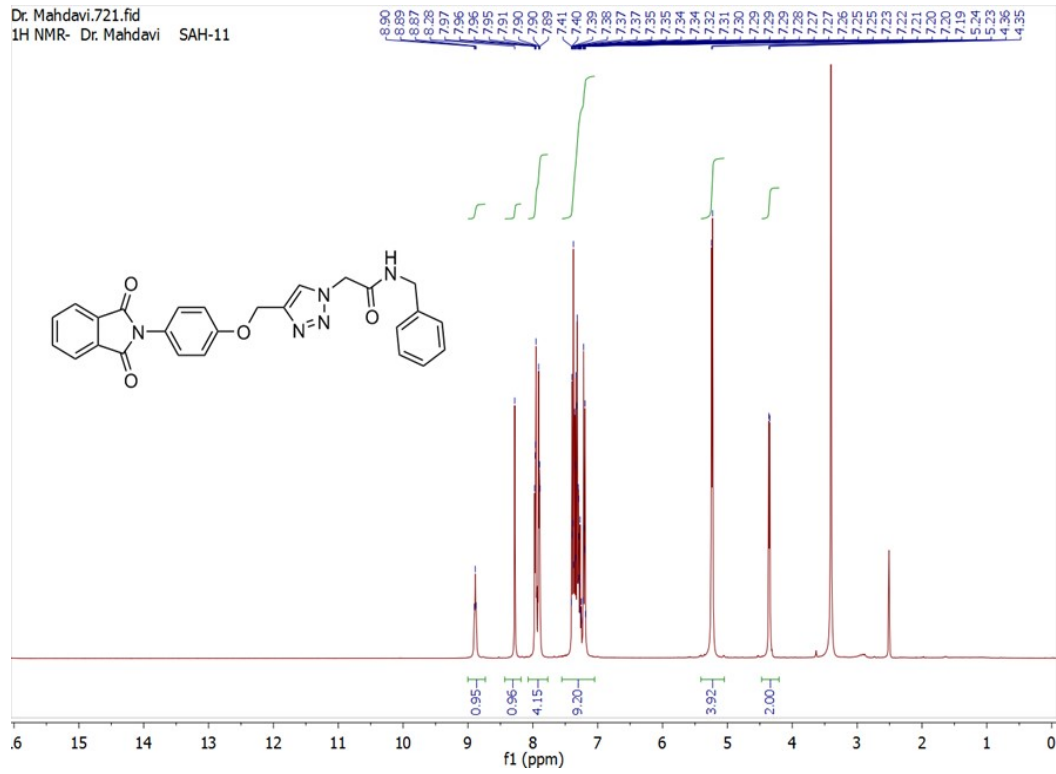


^1H NMR and ^{13}C NMR (400 MHz, $\text{DMSO-}d_6$) of compound 4e

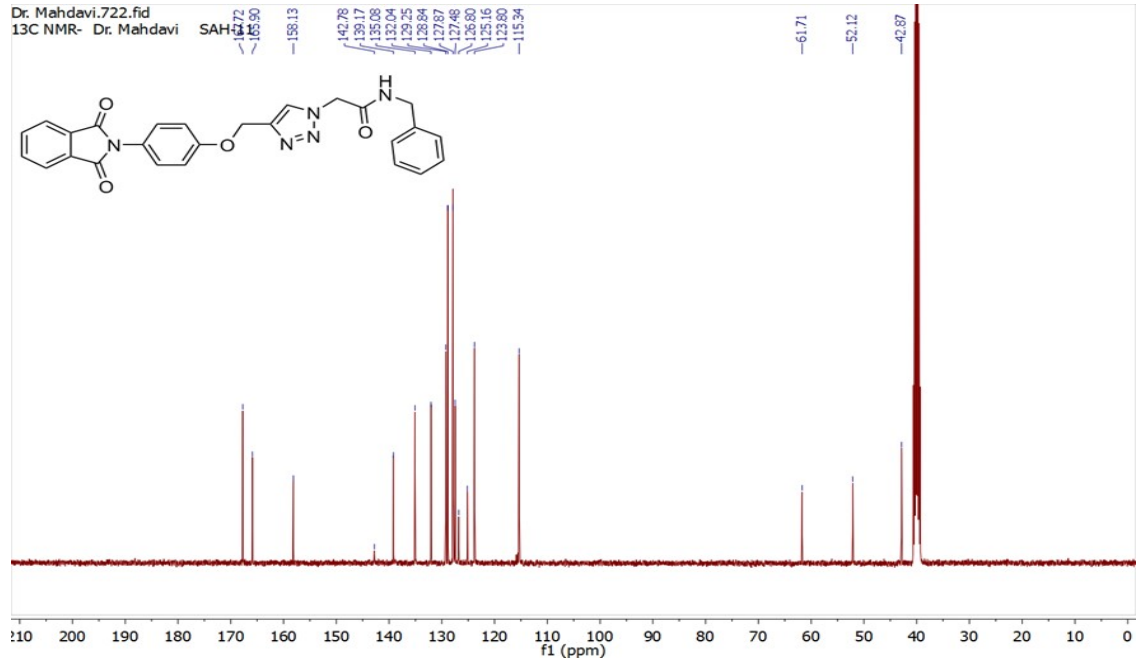


^1H NMR and ^{13}C NMR (400 MHz, $\text{DMSO-}d_6$) of compound 4d

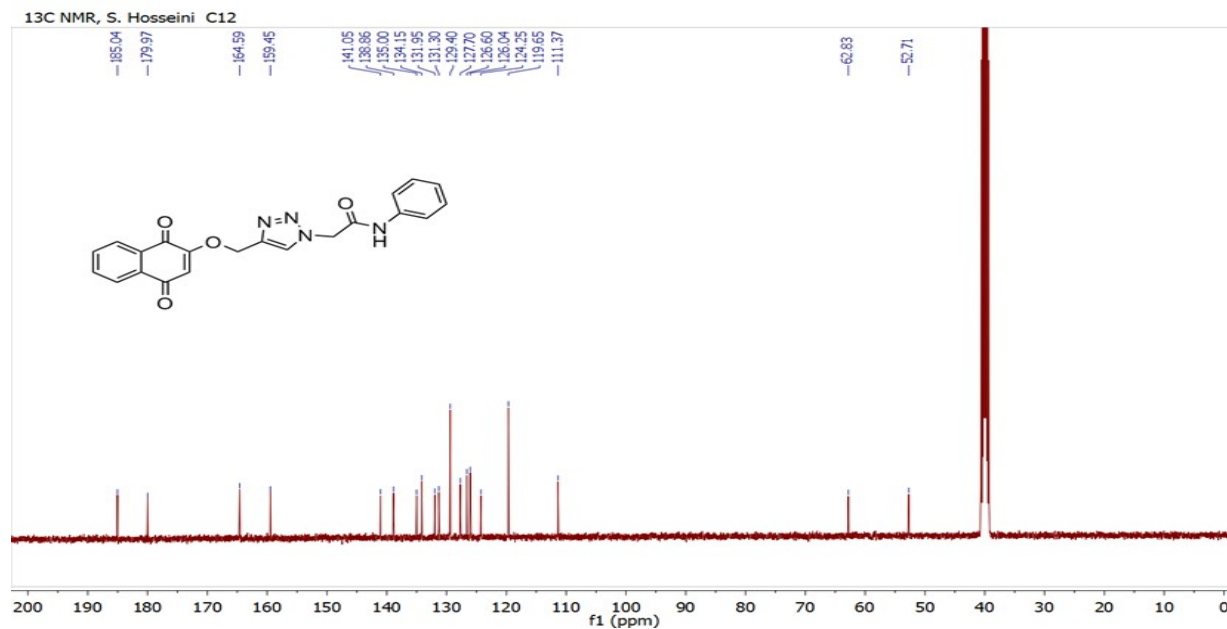
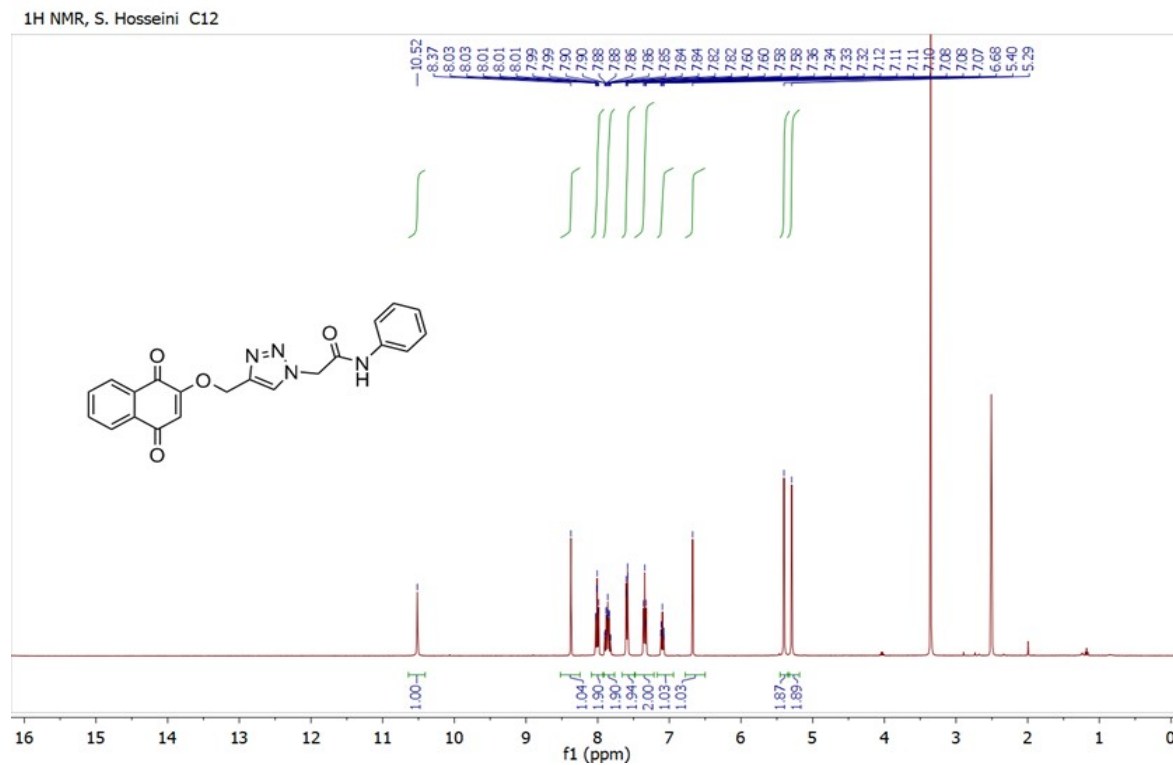
Dr. Mahdavi.721.fid
1H NMR- Dr. Mahdavi SAH-11



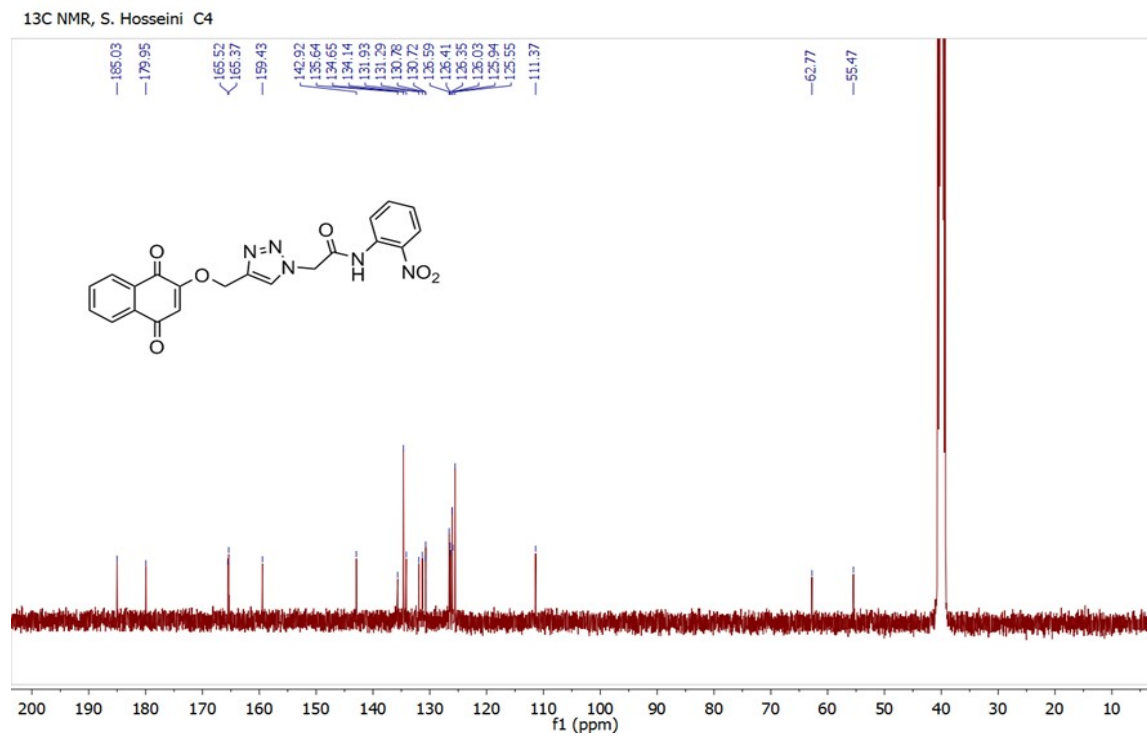
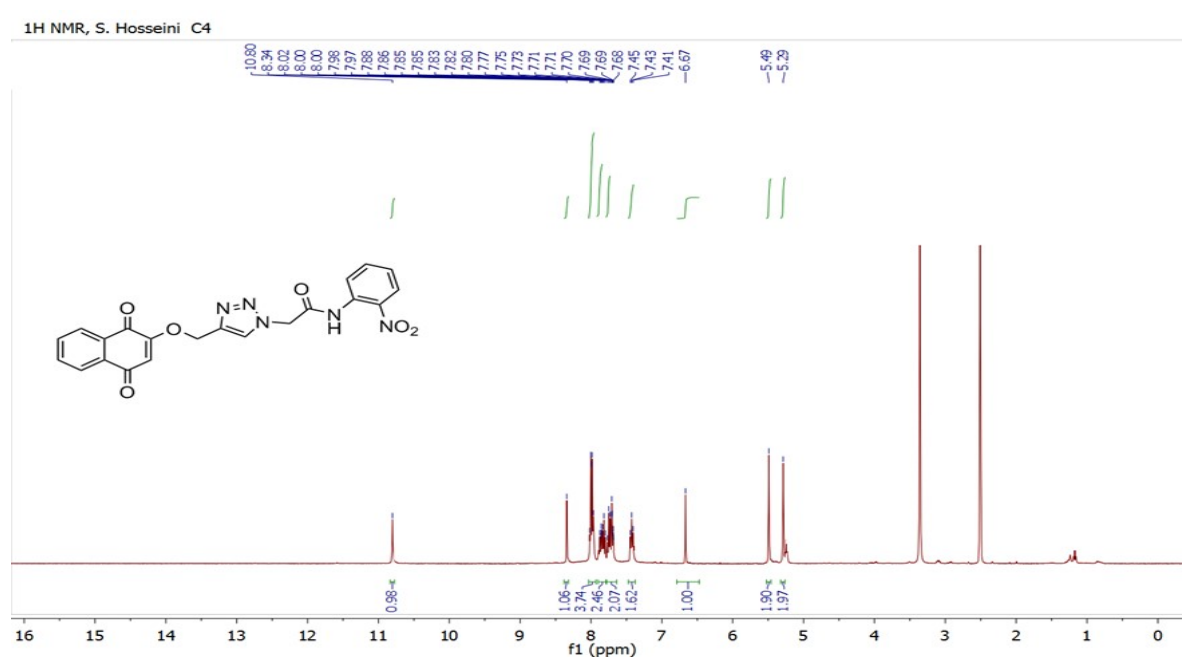
Dr. Mahdavi.722.fid
13C NMR- Dr. Mahdavi SAH-11



¹H NMR (400 MHz, DMSO-d₆) of compound 5e

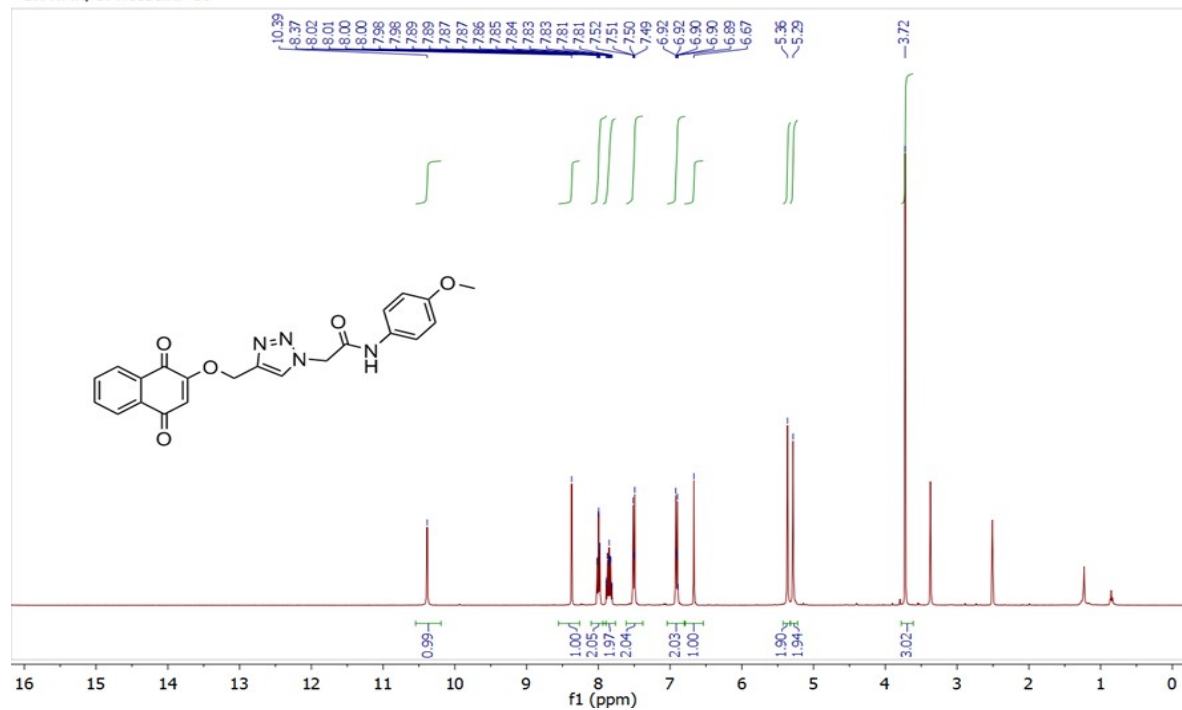


^1H NMR and ^{13}C NMR (400 MHz, $\text{DMSO-}d_6$) of compound 5a

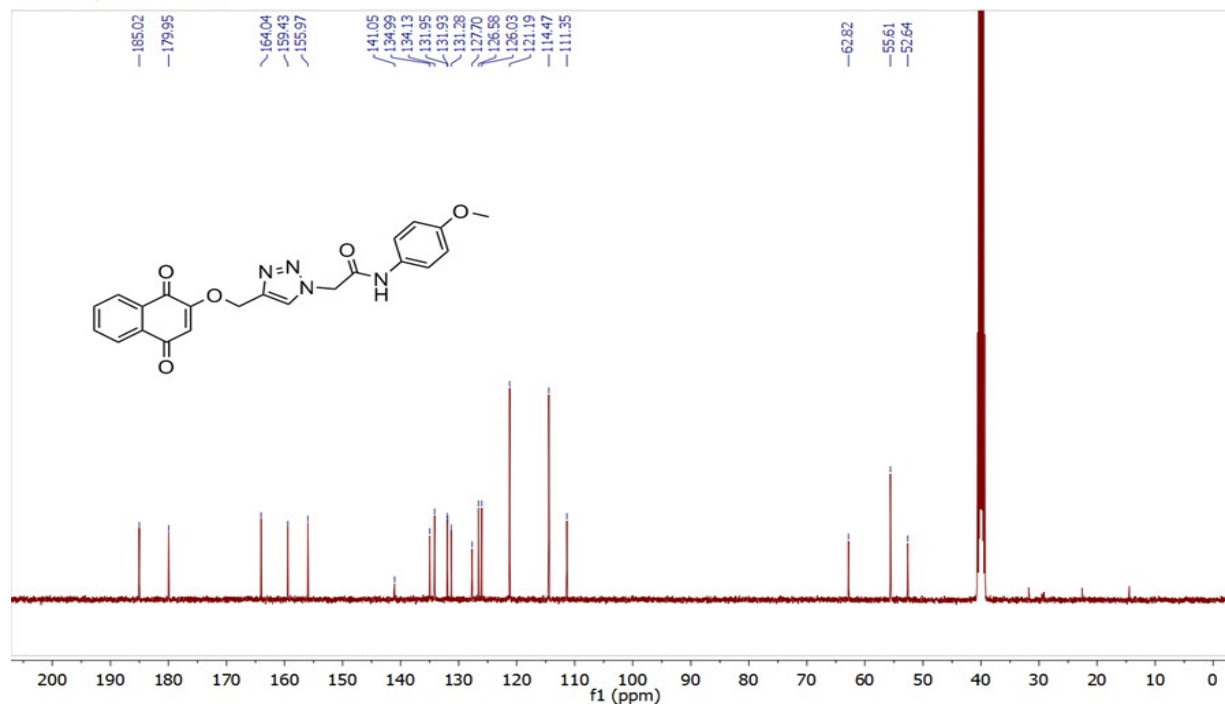


^1H NMR and ^{13}C NMR (400 MHz, $\text{DMSO-}d_6$) of compound 5b

^1H NMR, S. Hosseini C6



^{13}C NMR, S. Hosseini C6



^1H NMR and ^{13}C NMR (400 MHz, $\text{DMSO-}d_6$) of compound 5c

