

Supporting Information

"Harnessing Thiazole Chemistry for Antifungal Strategies through Experimental and Computational Chemistry Approach: Anti-Biofilm, Molecular Docking, Dynamics, and DFT Analysis"

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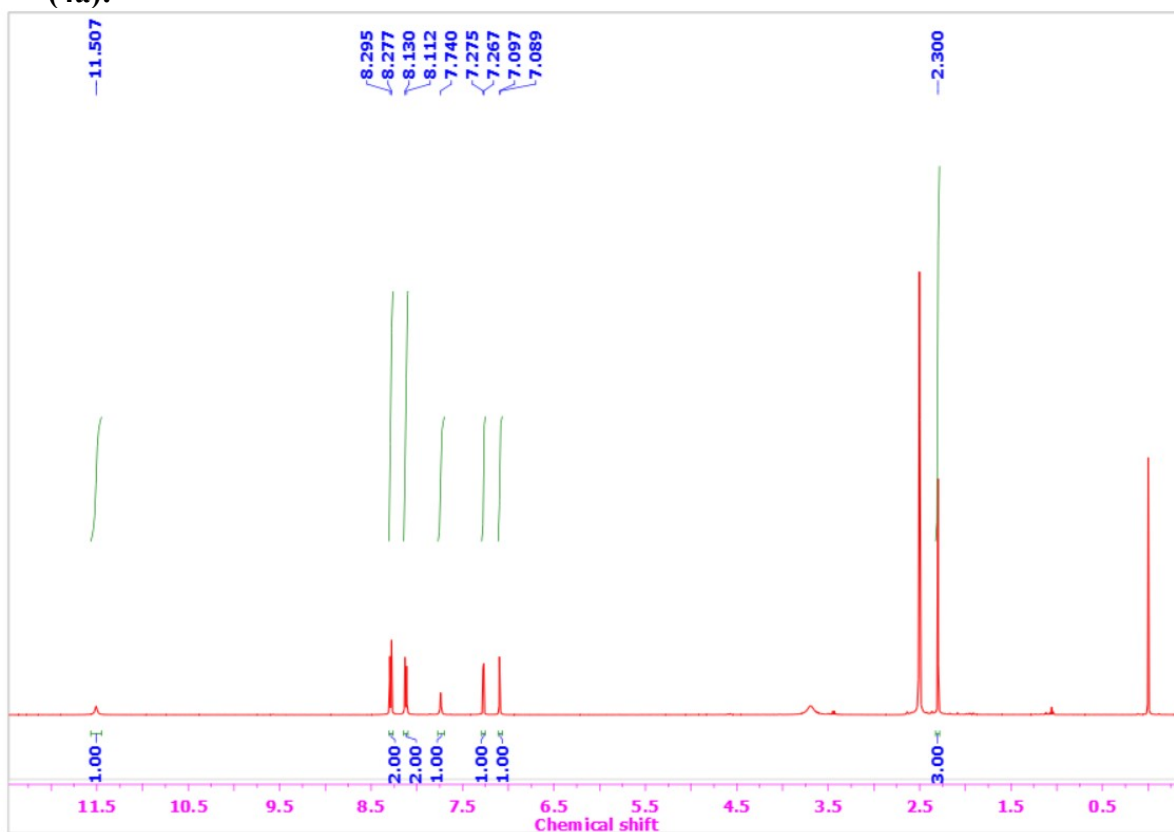
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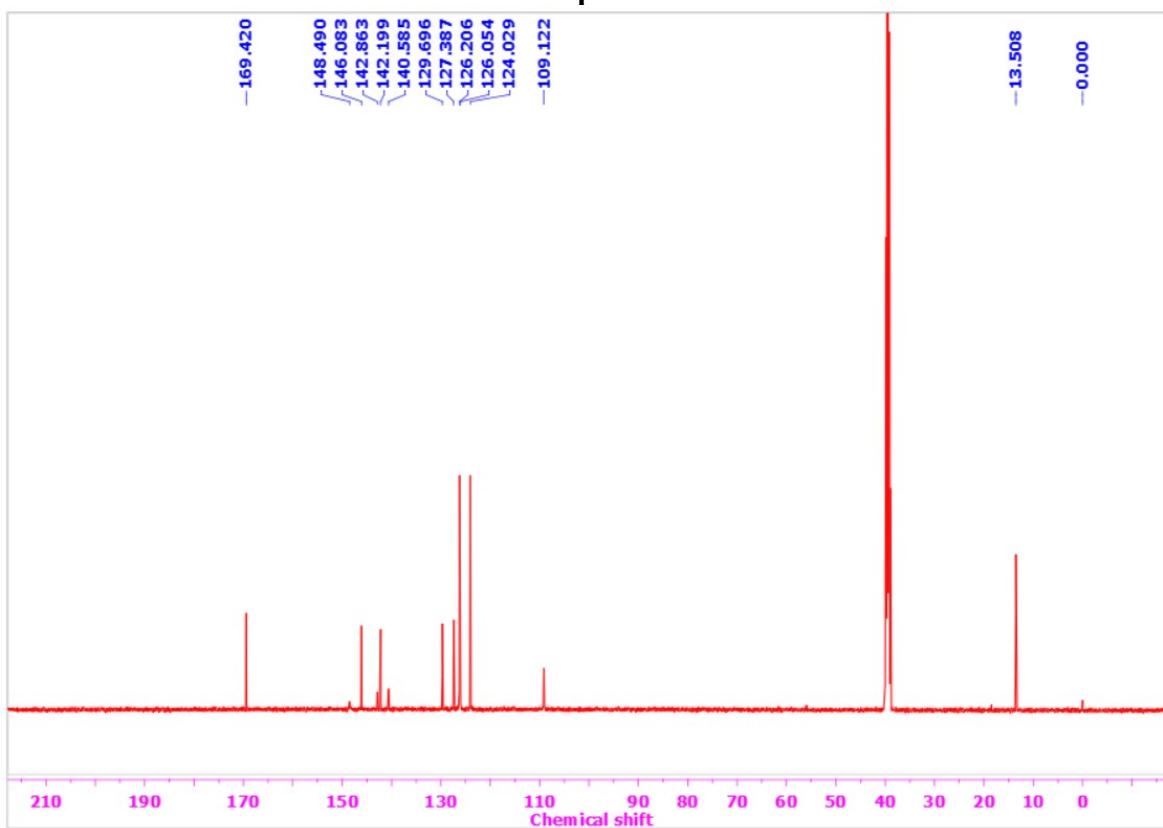
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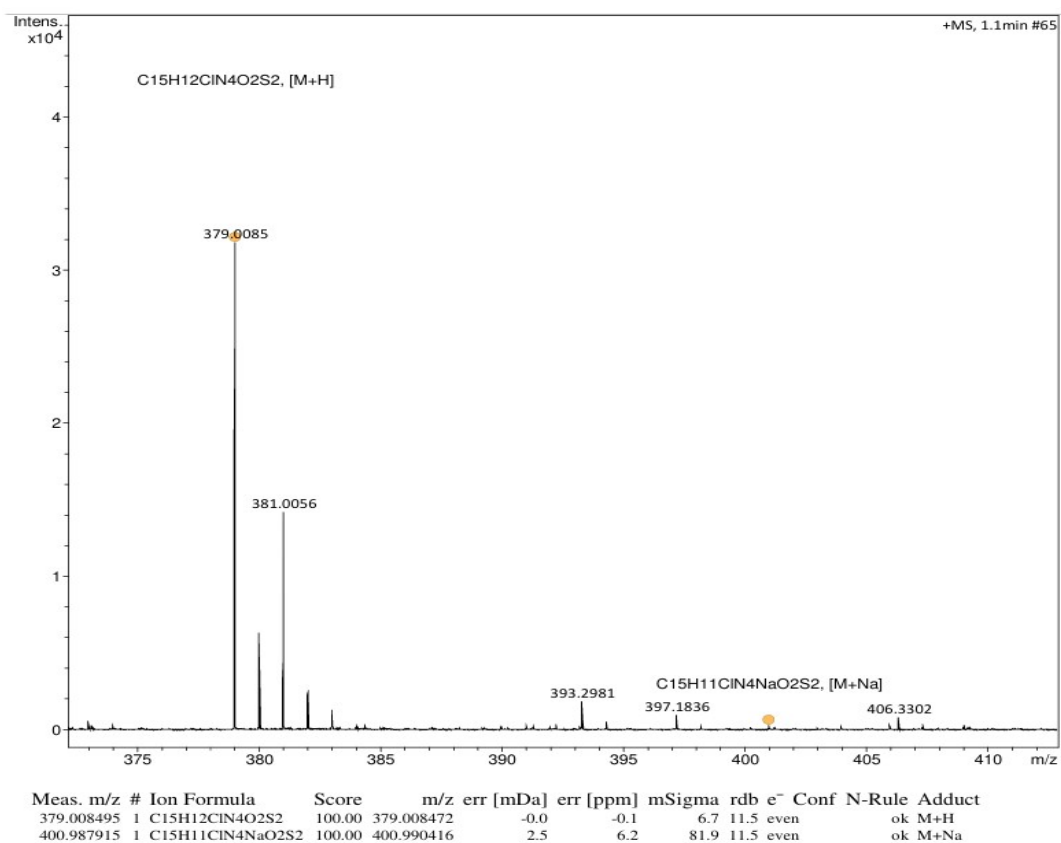
1. (*E*)-2-(2-(1-(5-chlorothiophen-2-yl)ethylidene)hydrazineyl)-4-(4-nitrophenyl)thiazole (4a):



¹H NMR spectrum of 4a

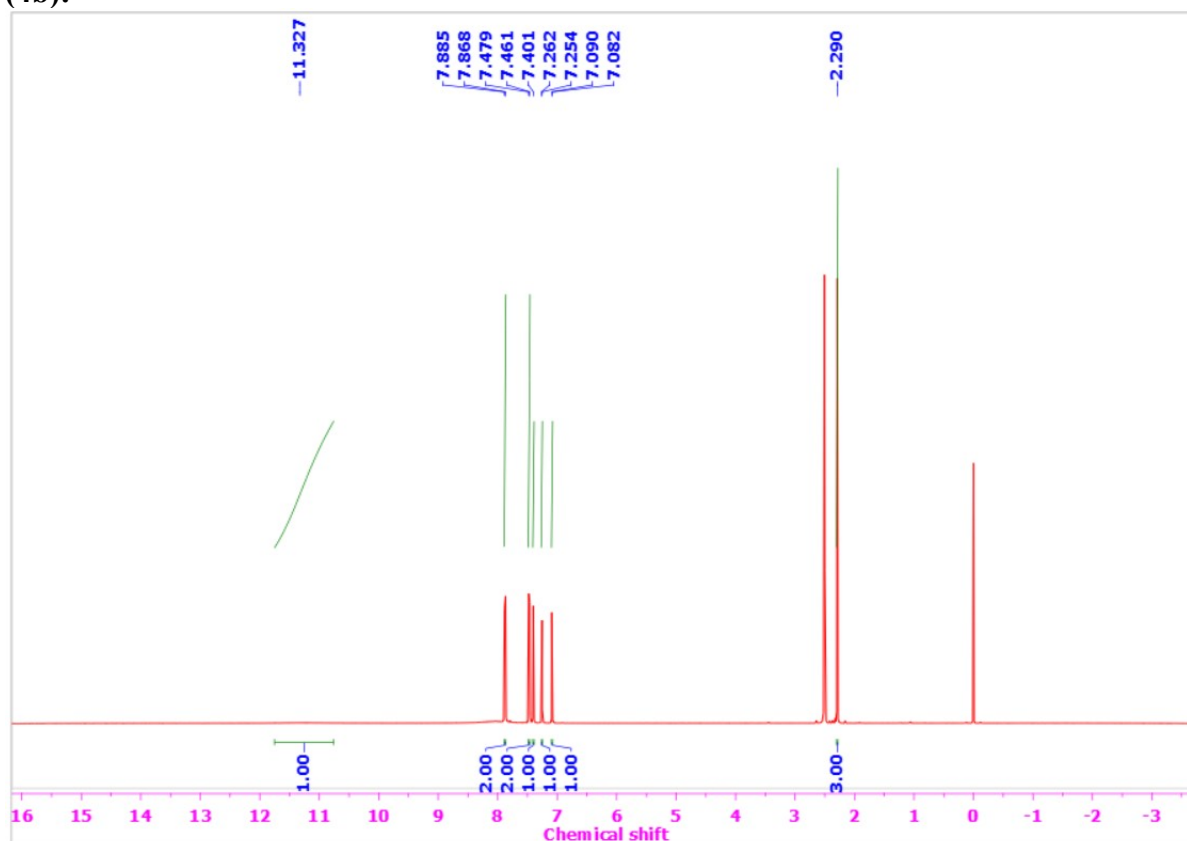


¹³C NMR spectrum of 4a

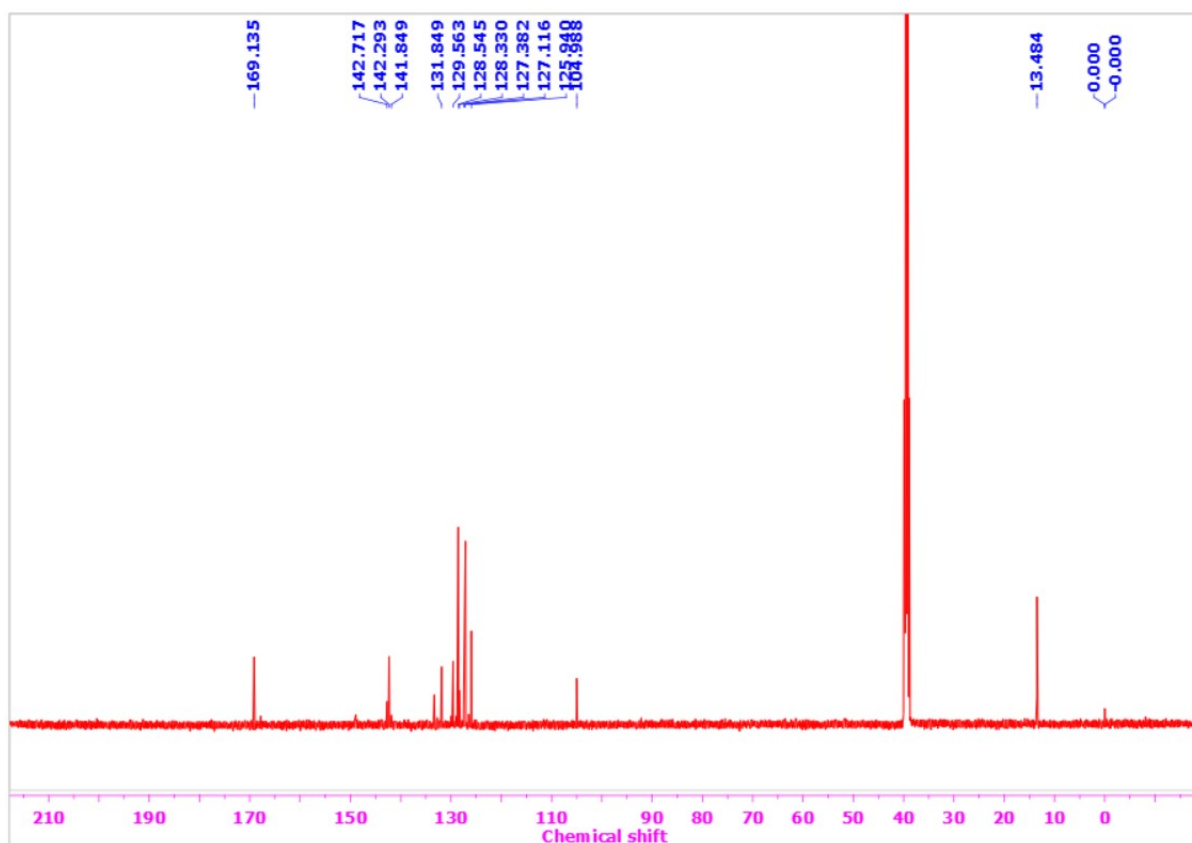


HRMS of 4a

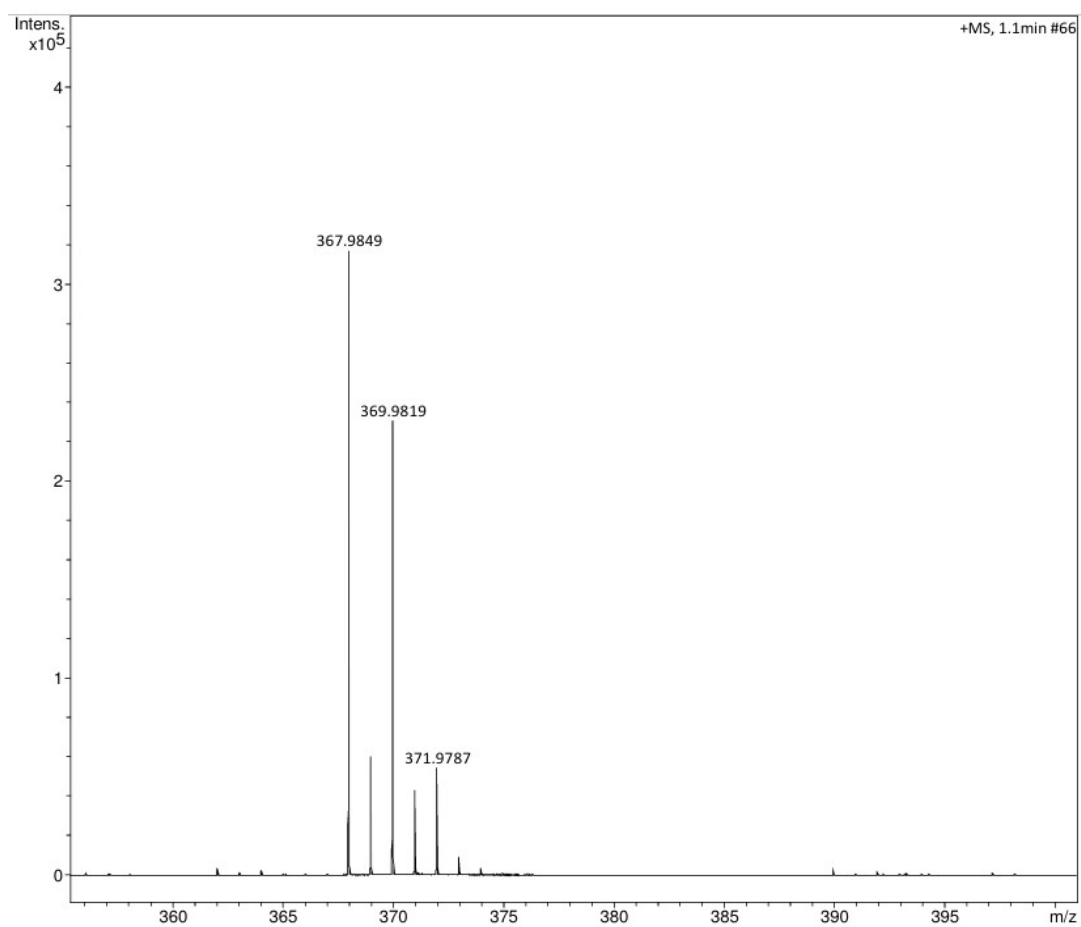
(E)-4-(4-chlorophenyl)-2-(2-(1-(5-chlorothiophen-2-yl)ethylidene)hydrazineyl)thiazole (4b):



¹H NMR spectrum of 4b

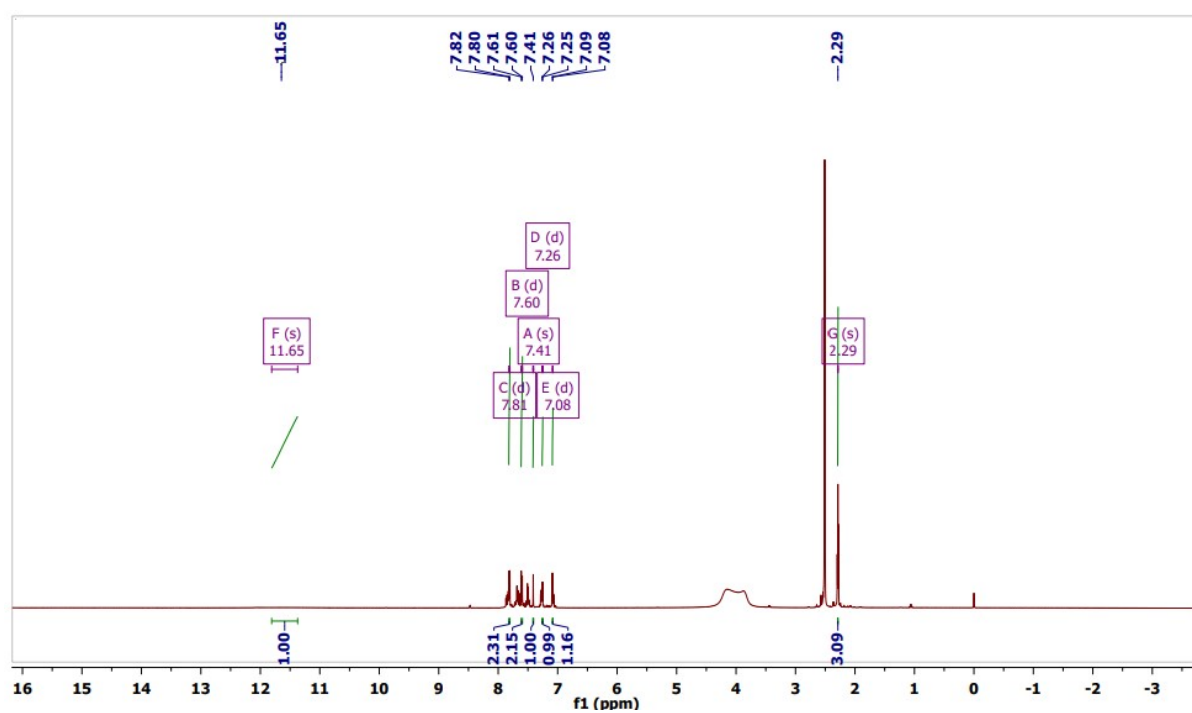
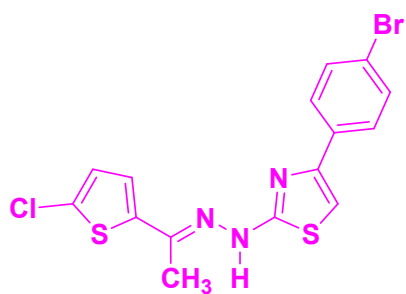


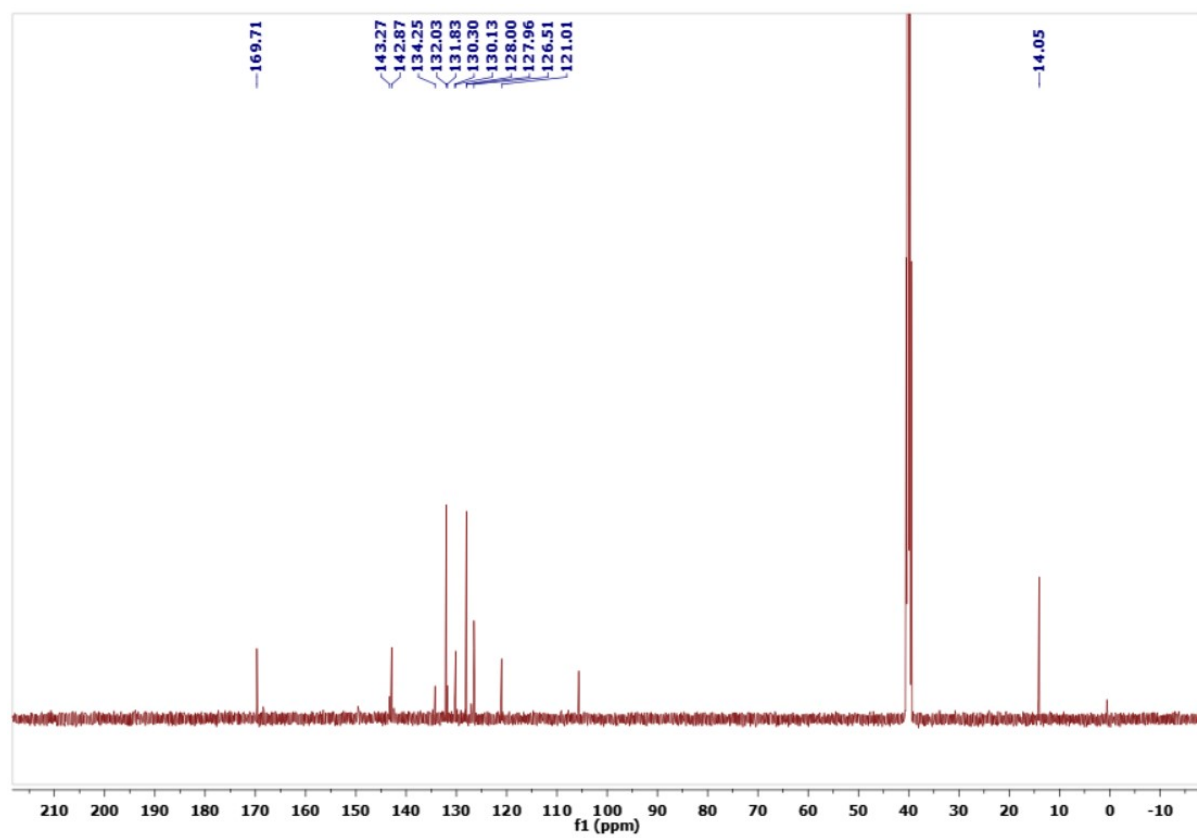
¹³C NMR spectrum of 4b



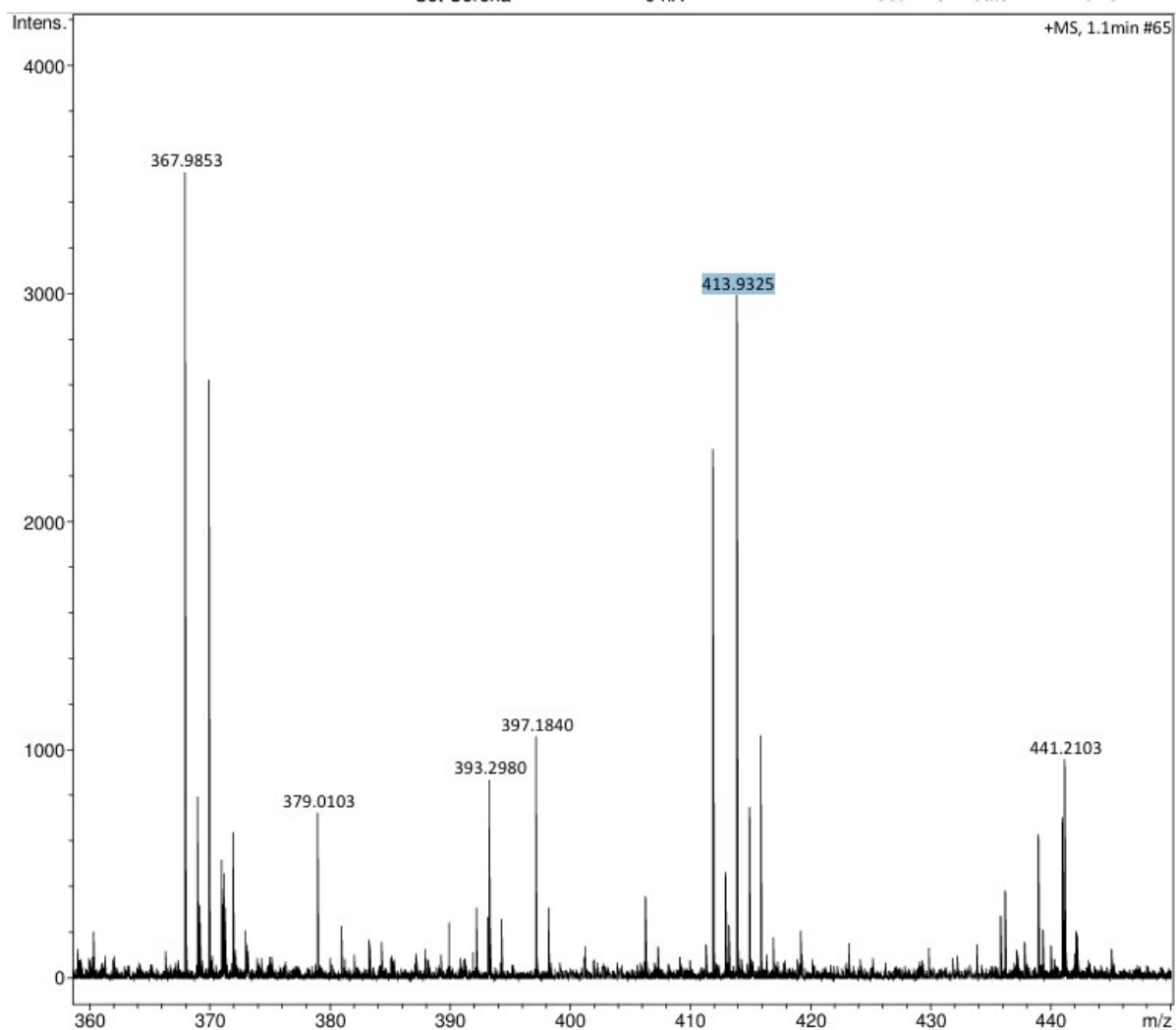
HRMS of 4b

(*E*)-4-(4-bromophenyl)-2-(2-(1-(5-chlorothiophen-2-yl)ethylidene)hydrazineyl)thiazole (4c):



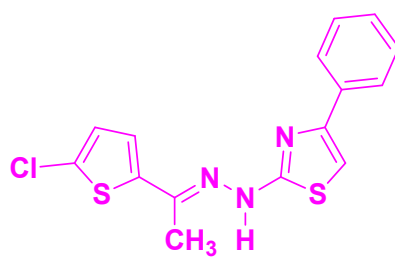


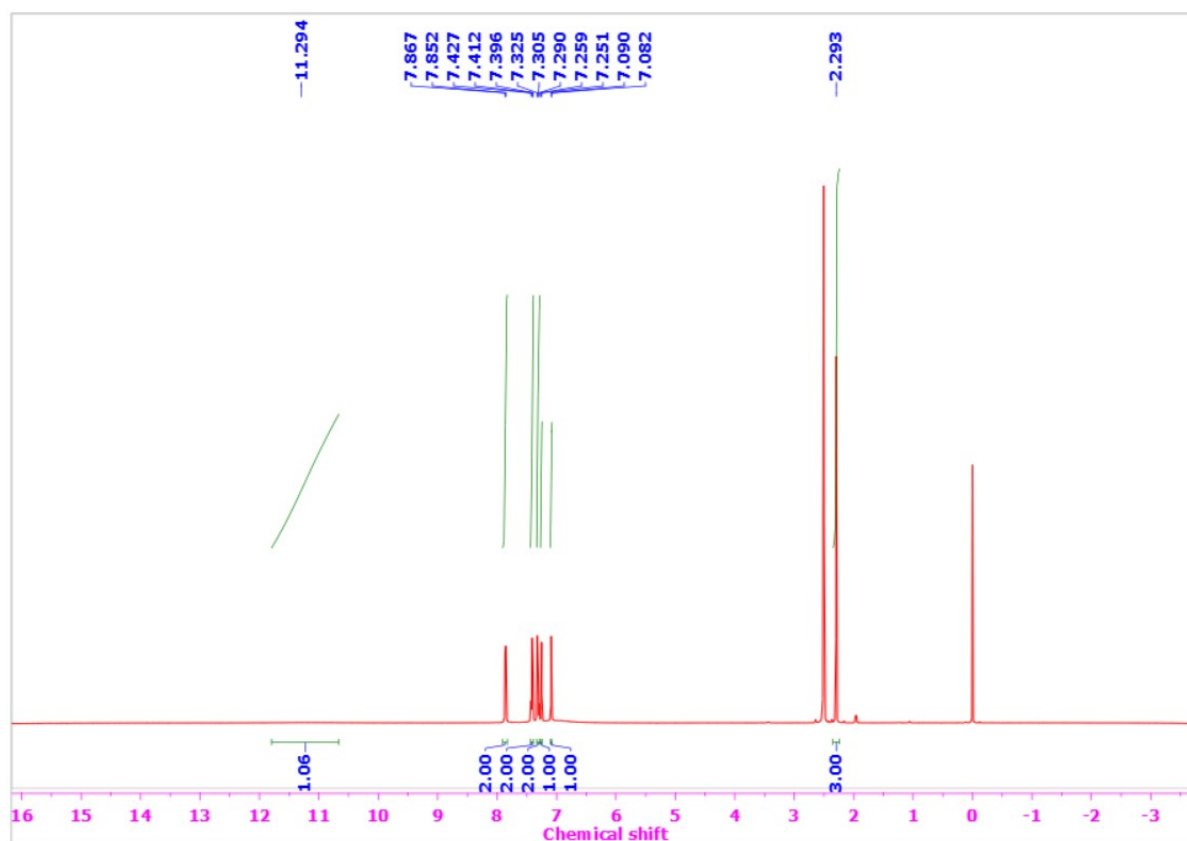
^{13}C NMR spectrum of 4c



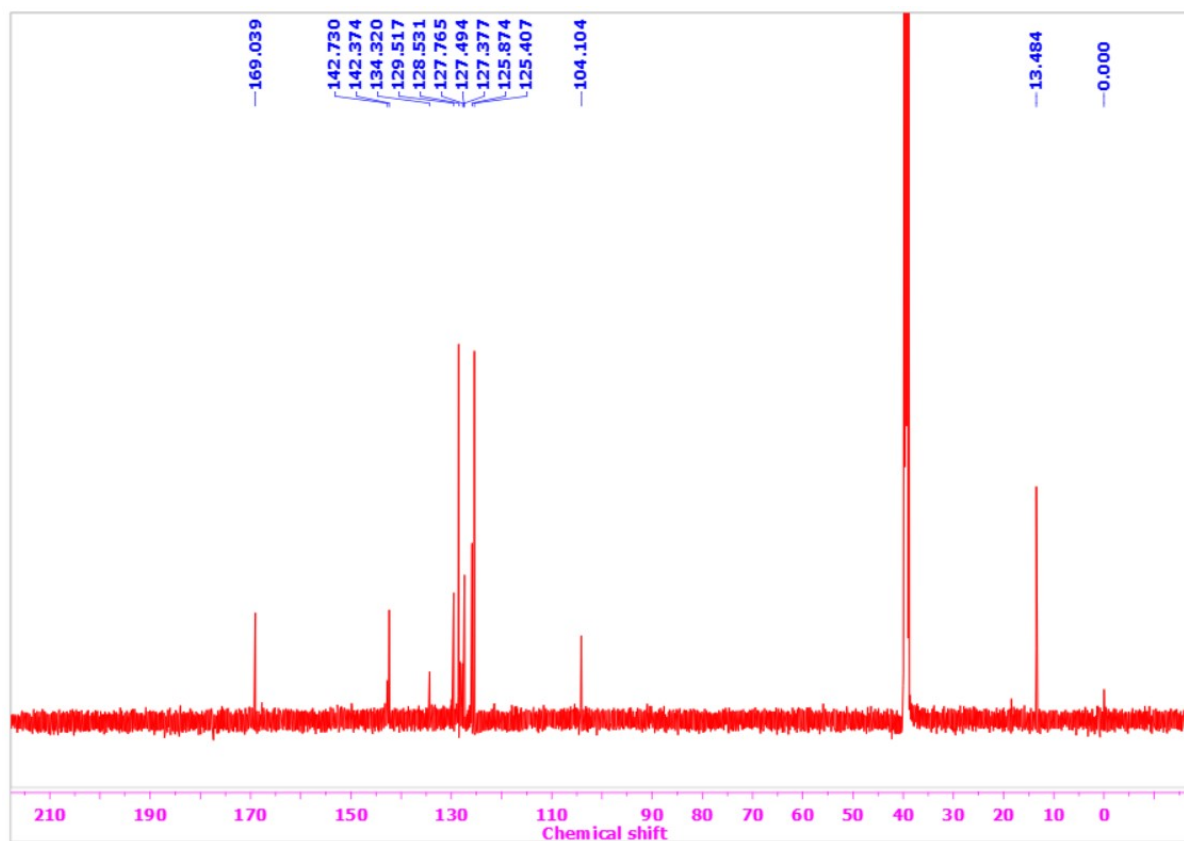
HRMS of compound 4c

(*E*)-2-(2-(1-(5-chlorothiophen-2-yl)ethylidene)hydrazineyl)-4-phenylthiazole (4d):

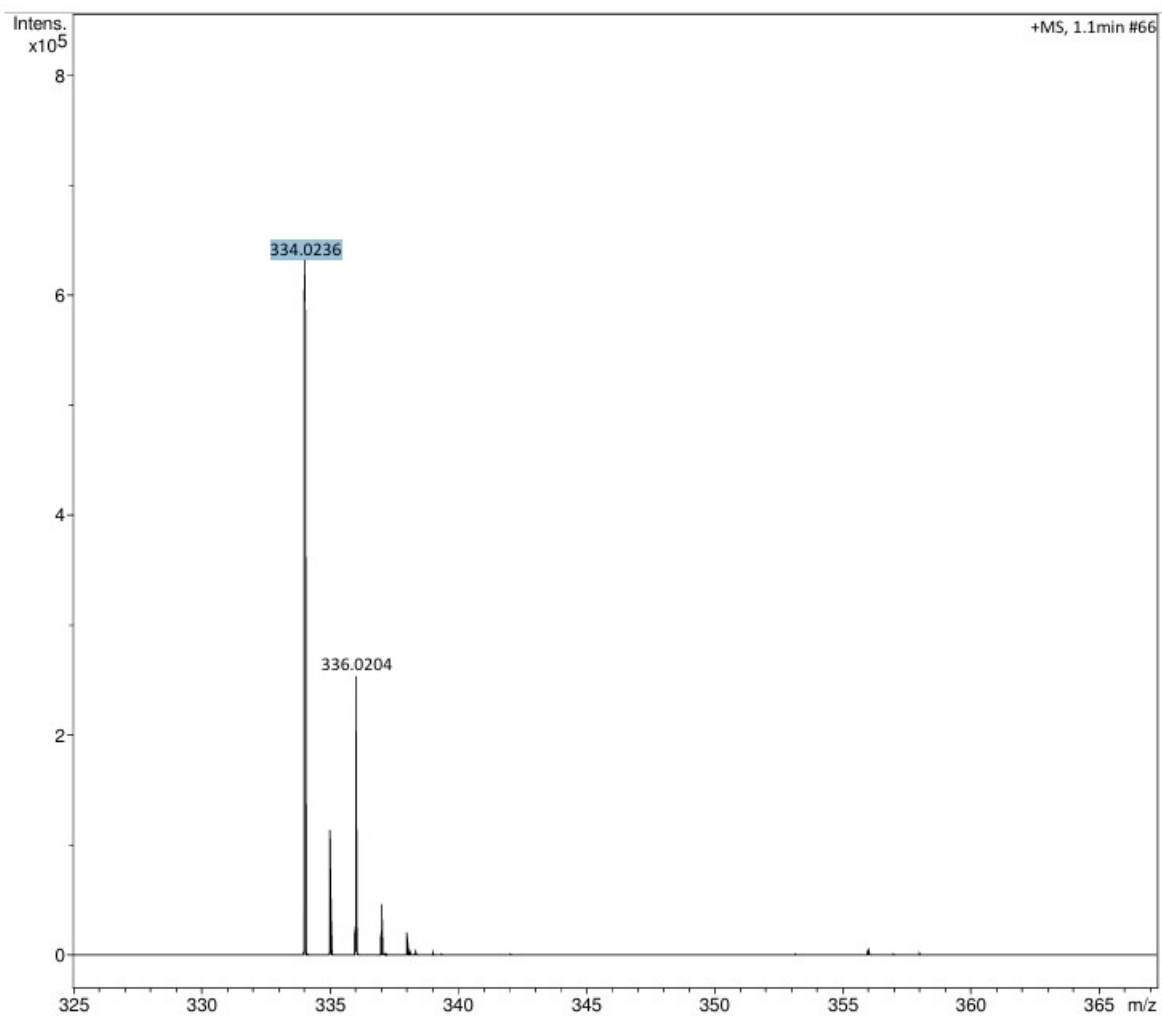




¹H NMR spectrum of 4d



¹³C NMR spectrum of 4d



HRMS of 4d