

Article

Supplementary Material: Antioxidant and Cytotoxic Activity of New Polyphenolic Derivatives of Quinazolin-4(3H)-one: Synthesis and In Vitro Activities Evaluation

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1. Figures

1.1. The IR spectra

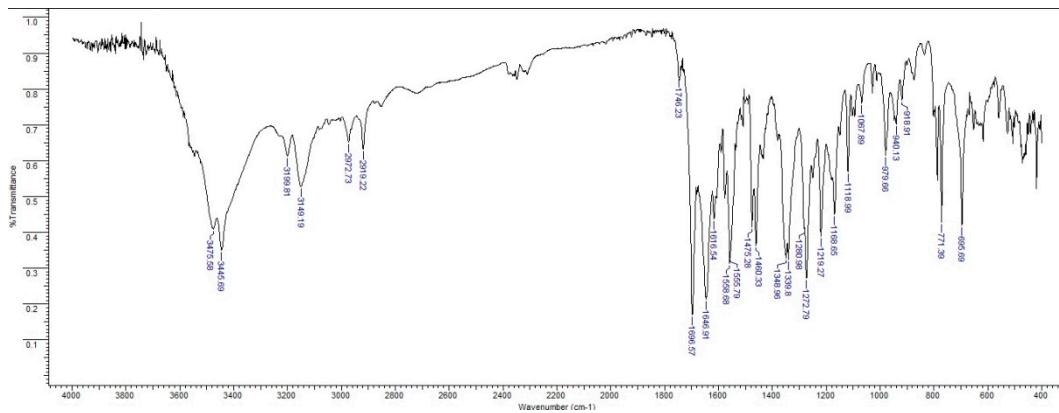


Figure S1. The IR spectrum for the compound **5a**.

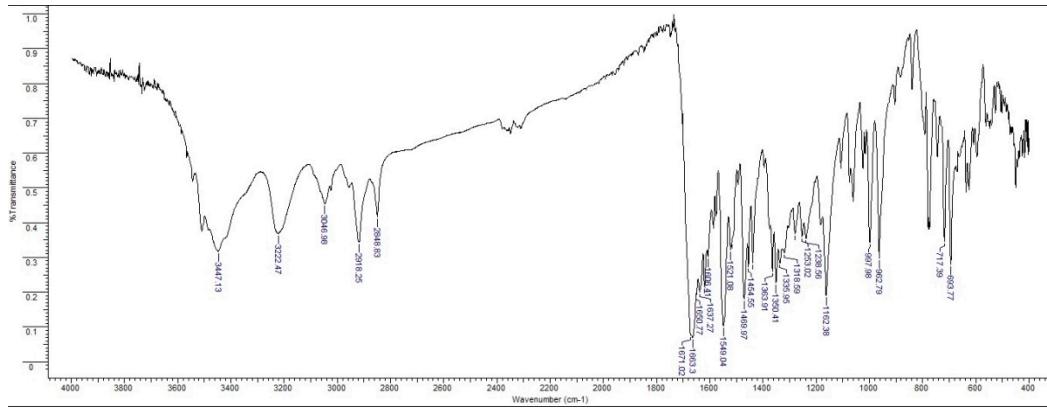


Figure S2. The IR spectrum for the compound **5b**.

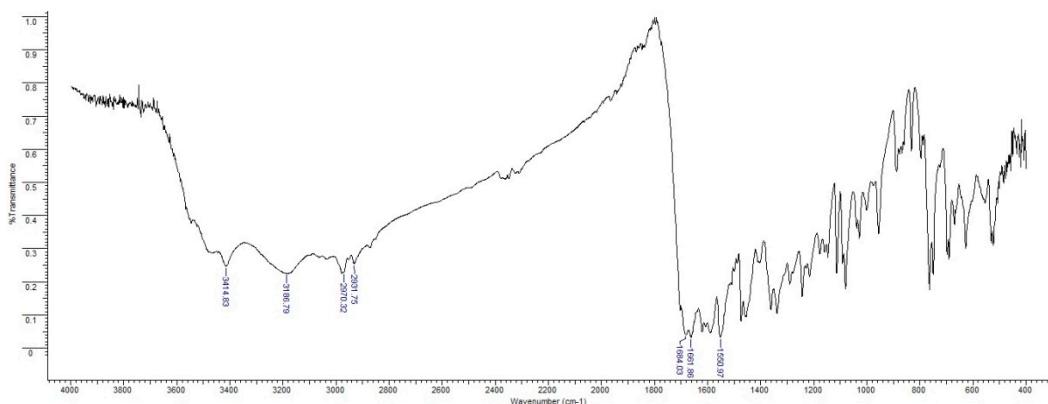


Figure S3. The IR spectrum for the compound **5c**.

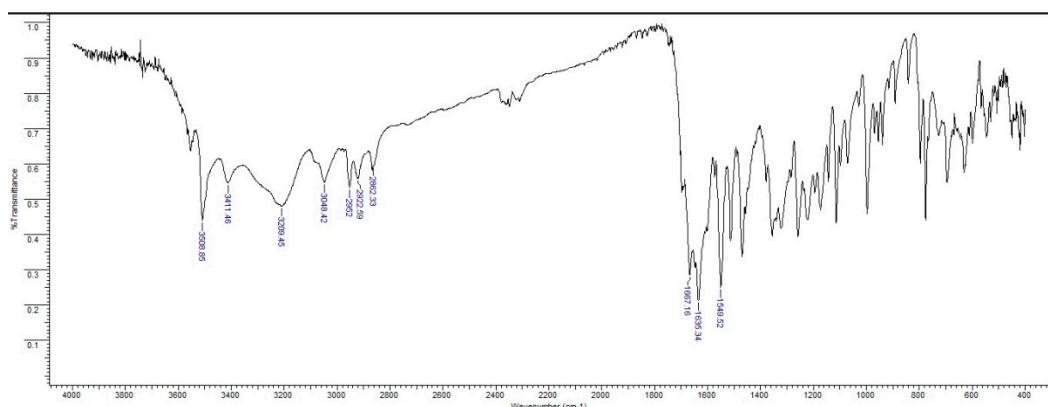


Figure S4. The IR spectrum for the compound **5d**.

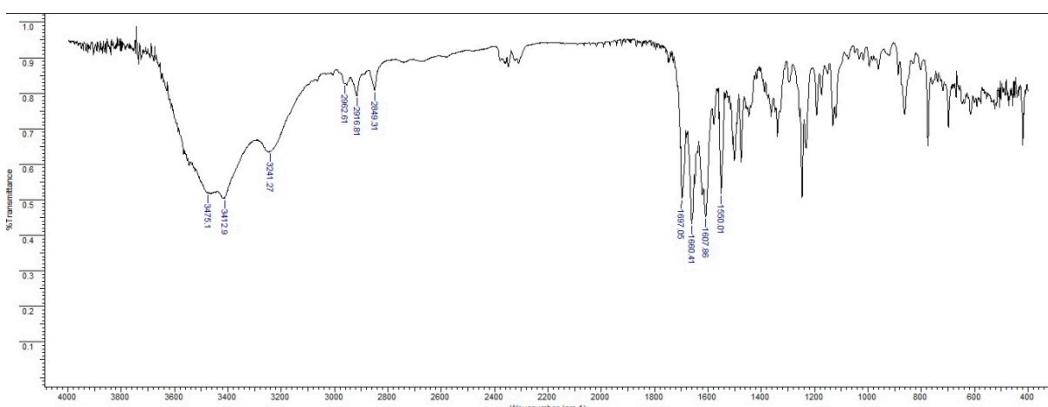


Figure S5. The IR spectrum for the compound **6a**.

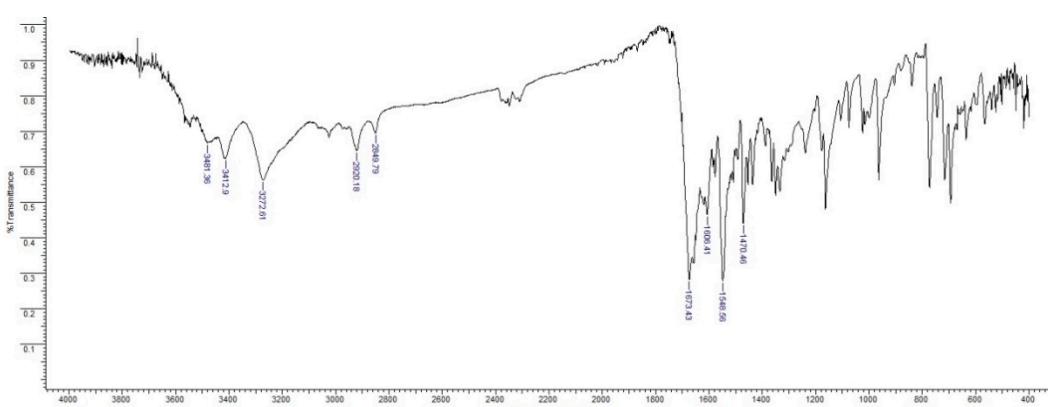


Figure S6. The IR spectrum for the compound **6b**.

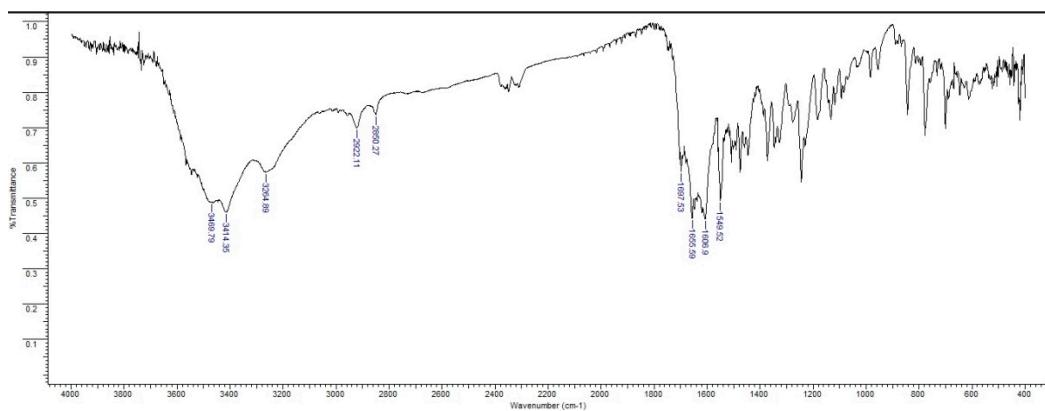


Figure S7. The IR spectrum for the compound **6c**.

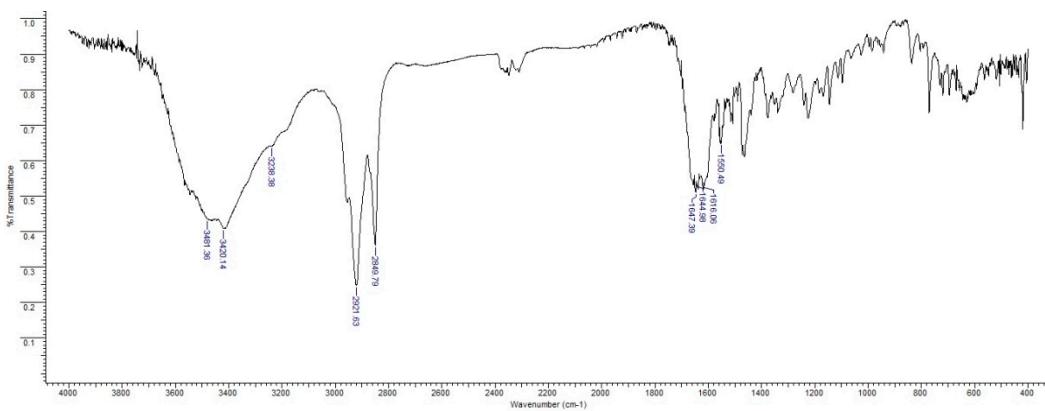


Figure S8. The IR spectrum for the compound **6d**.

1.2. The MS spectra

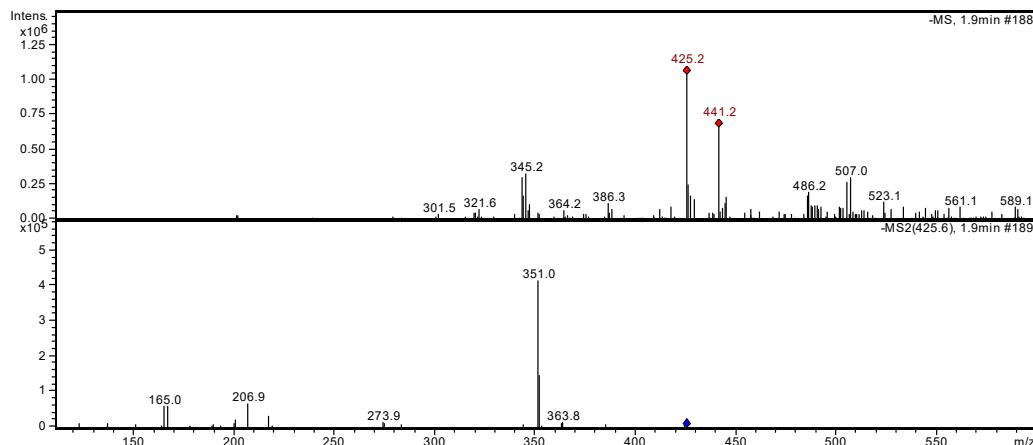


Figure S9. The MS spectrum for the compound **5a**.

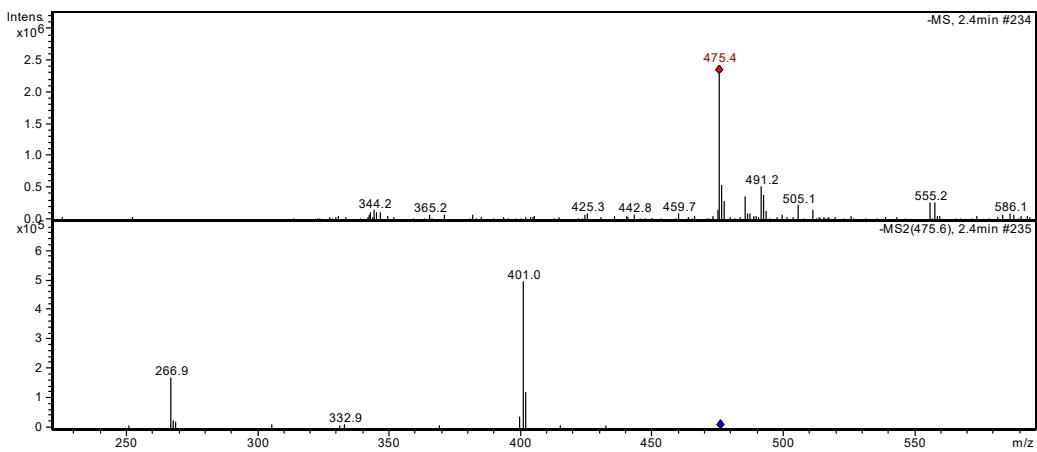


Figure S10. The MS spectrum for the compound **5b**.

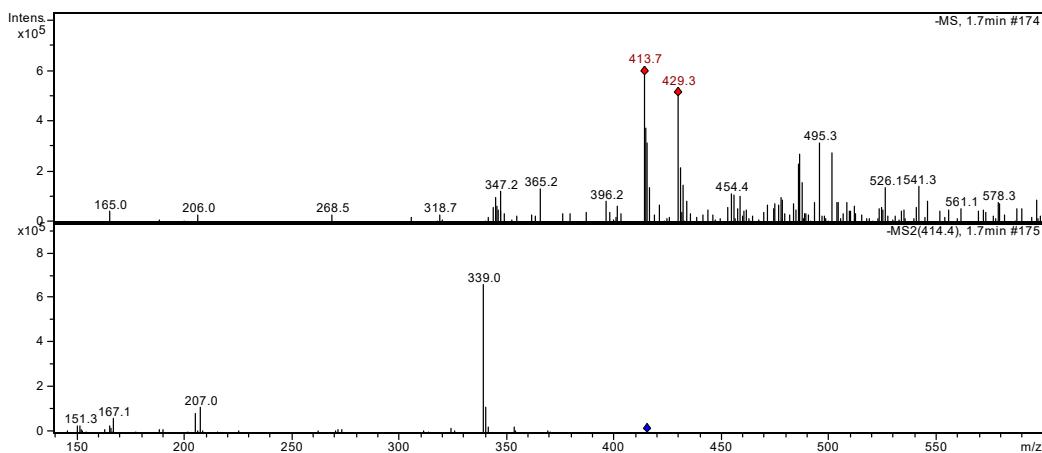


Figure S11. The MS spectrum for the compound **5c**.

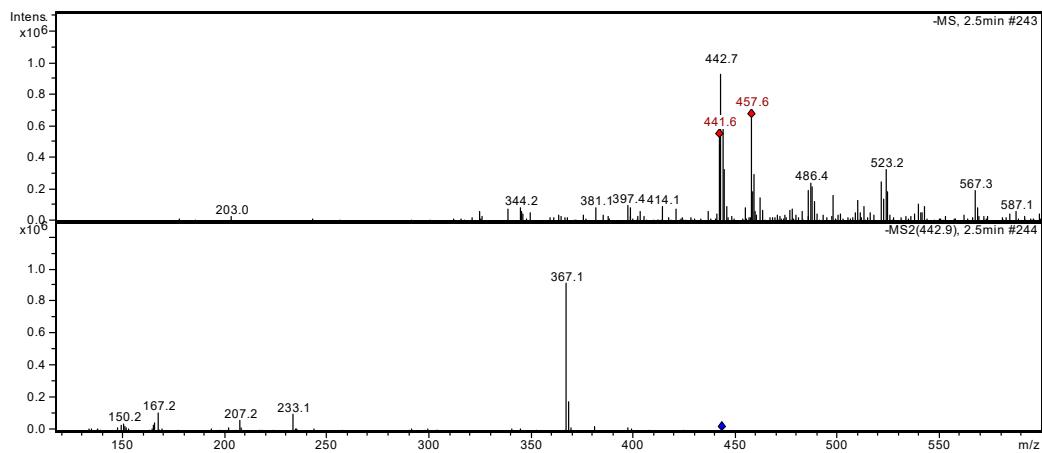


Figure S12. The MS spectrum for the compound **5d**.

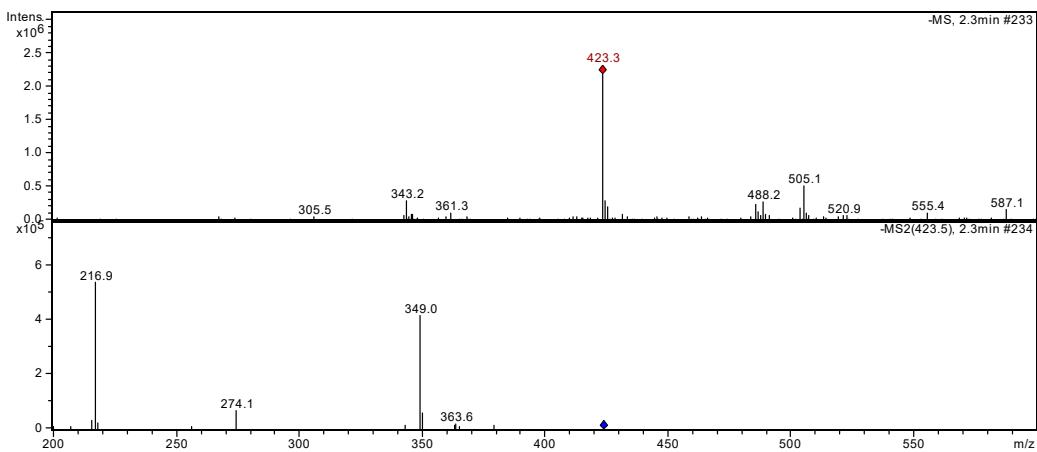


Figure S13. The MS spectrum for the compound **6a**.

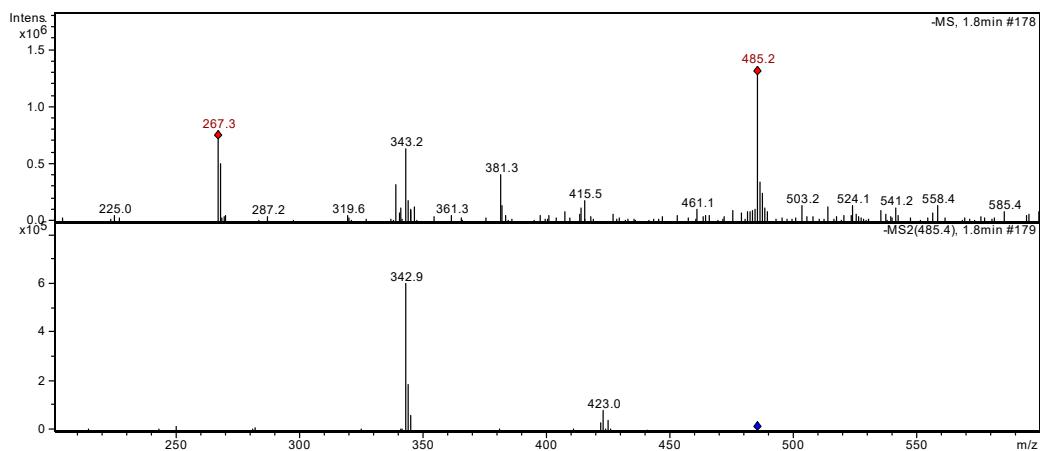


Figure S14. The MS spectrum for the compound **6b**.

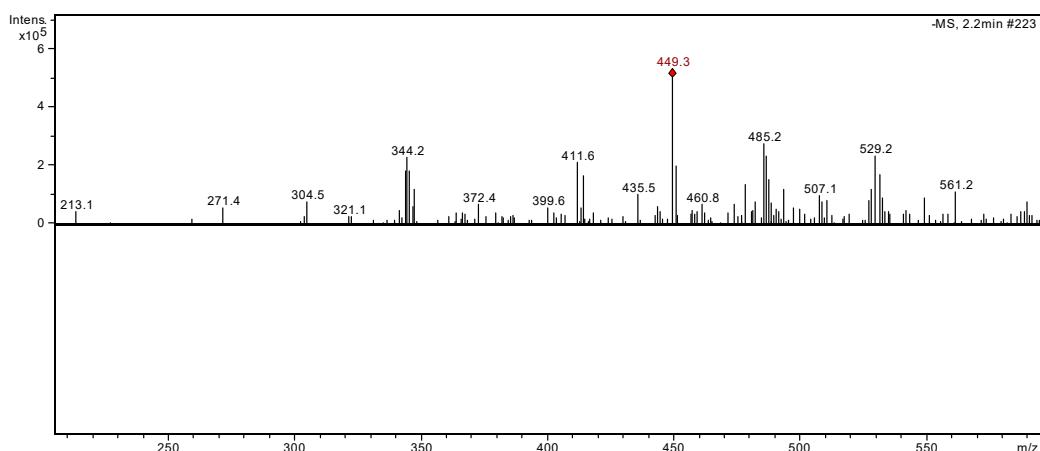


Figure S15. The MS spectrum for the compound **6c**.

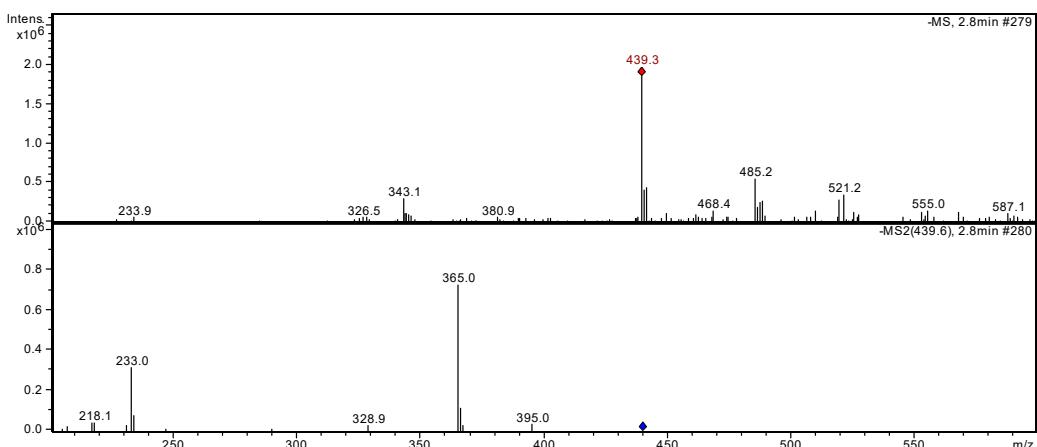


Figure S16. The MS spectrum for the compound **6d**.

1.1. *The ^1H -NMR spectrum*

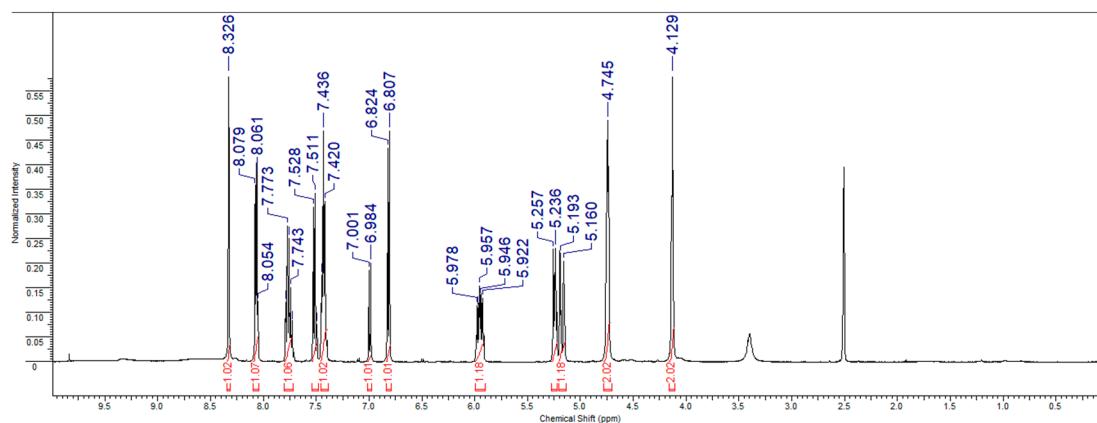


Figure S17. The ^1H -NMR spectrum for the compound **5a**.The integral label for the triplet at 7.511 ppm is 1.04 and for the multiplet at 5.239 ppm is 1.04.

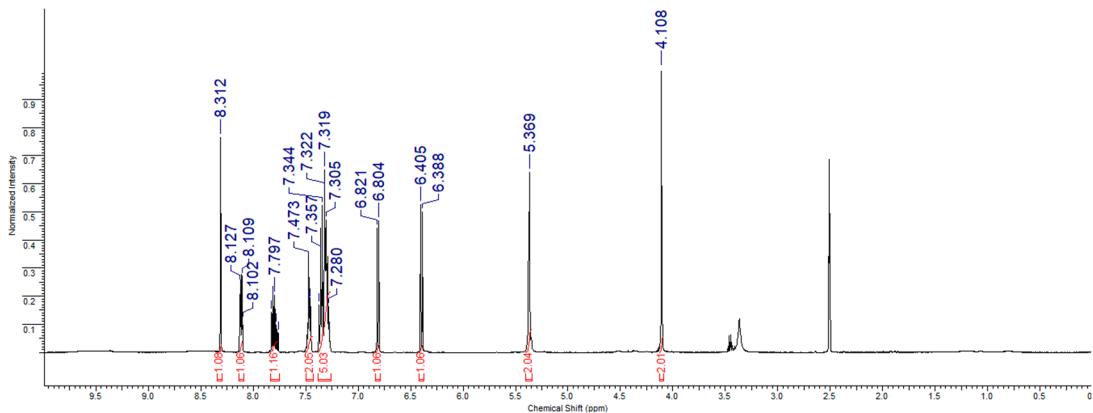


Figure S18. The ^1H -NMR spectrum for the compound **5b**.

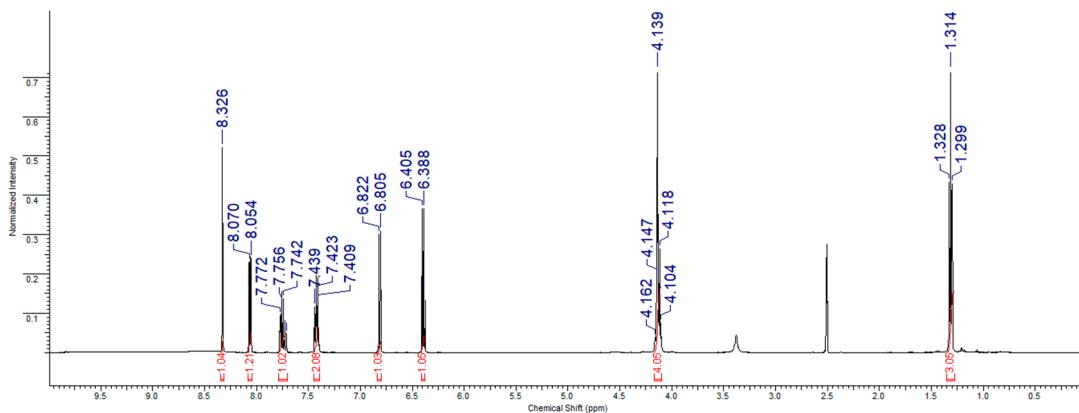


Figure S19. The ^1H -NMR spectrum for the compound **5c**.

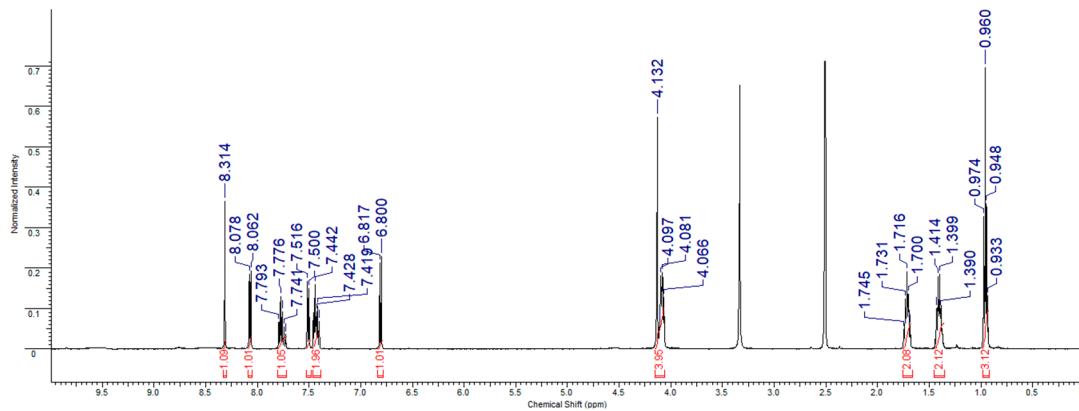


Figure S20. The ^1H -NMR spectrum for the compound **5d**. The integral label for the doublet at 7.508 ppm is 1.09.

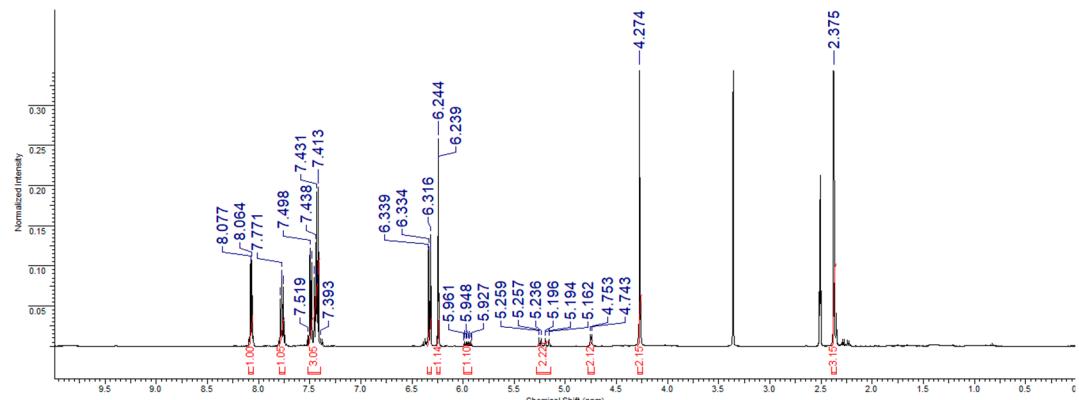


Figure S21. The ^1H -NMR spectrum for the compound **6a**. The integral label for the doublet of doublets at 6.327 ppm is 1.19.

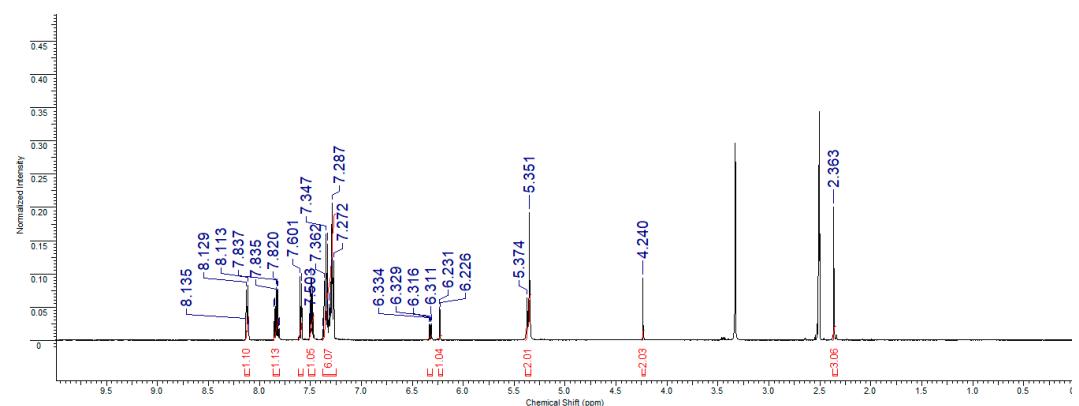


Figure S22. The ^1H -NMR spectrum for the compound **6b**. The integral label for the doublet at 7.593 ppm is 0.90 and for the doublet of doublets at 6.322 ppm is 1.02.

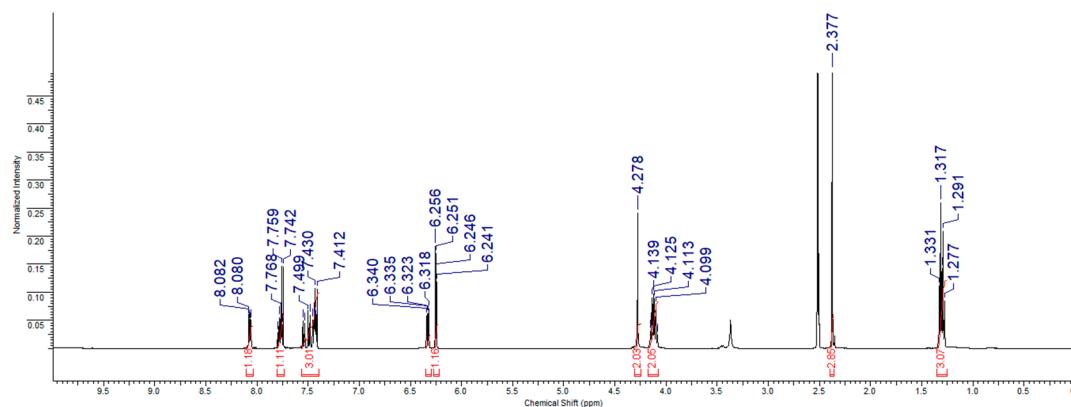


Figure S23. The ^1H -NMR spectrum for the compound **6c**. The integral label for the doublet of doublets at 6.328 ppm is 0.90.

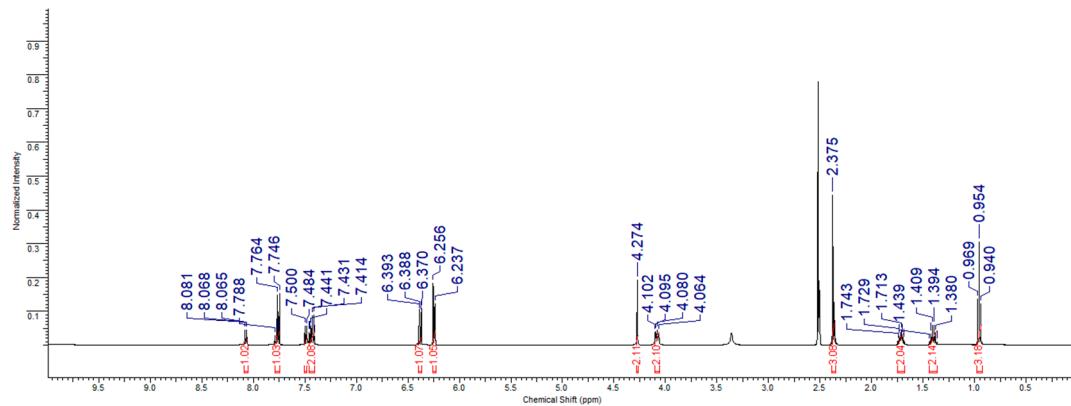


Figure S24. The ^1H -NMR spectrum for the compound **6d**. The integral label for the doublet at 7.492 ppm is 1.13.

1.2. The ^{13}C -NMR spectra

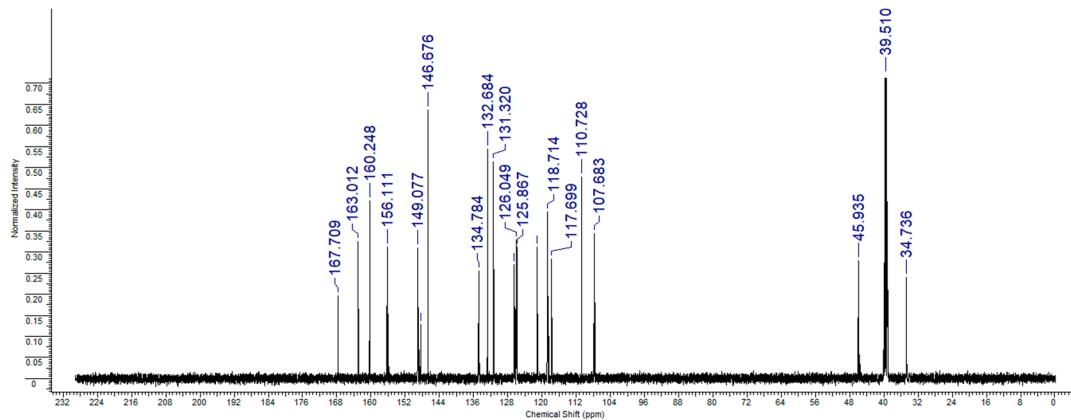


Figure S25. The ^{13}C -NMR spectrum for the compound **5a**.

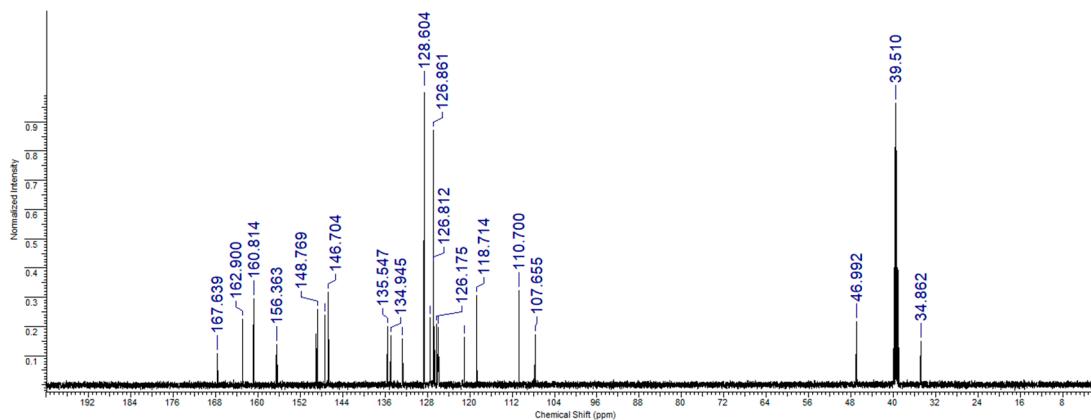


Figure S26. The ^{13}C -NMR spectrum for the compound **5b**.

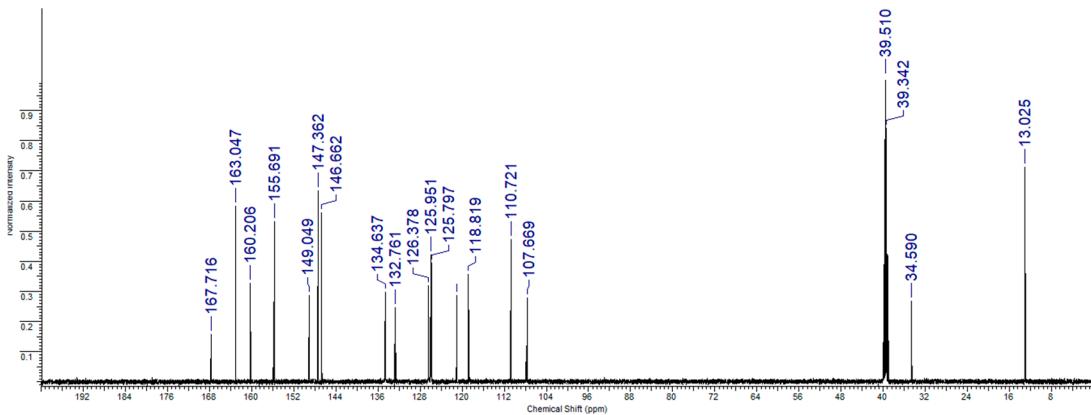


Figure S27. The ^{13}C -NMR spectrum for the compound **5c**.

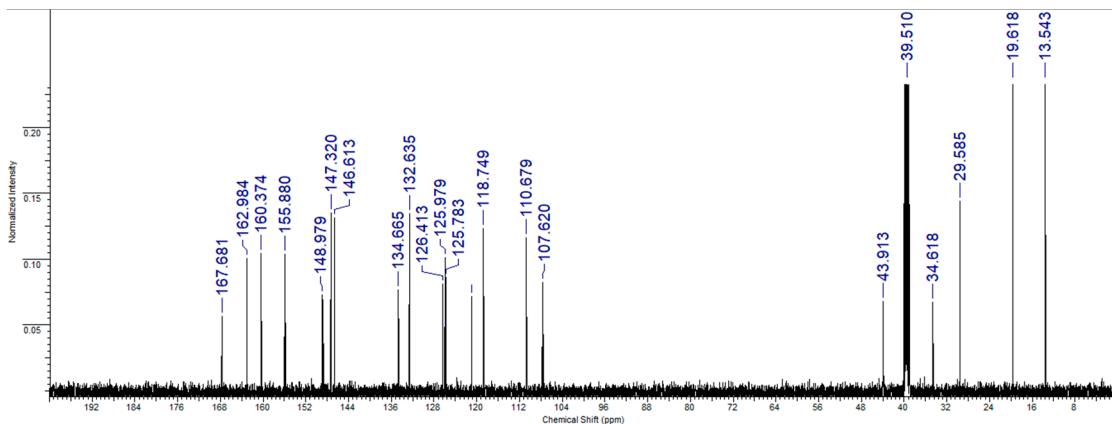


Figure S28. The ^{13}C -NMR spectrum for the compound **5d**.

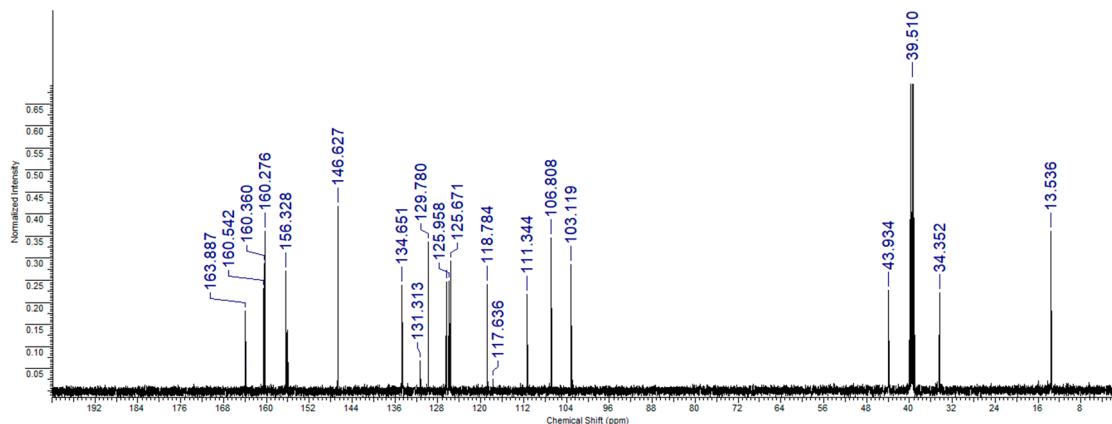


Figure S29. The ^{13}C -NMR spectrum for the compound **6a**.

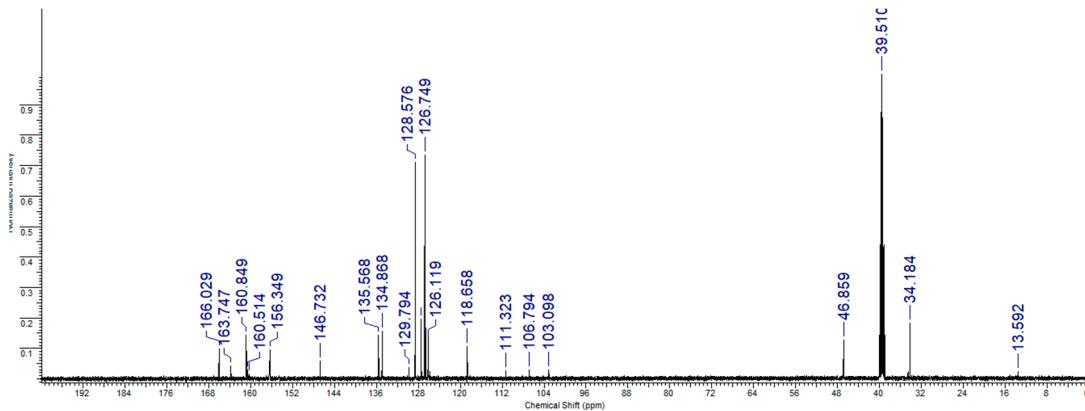


Figure S30. The ^{13}C -NMR spectrum for the compound **6b**.

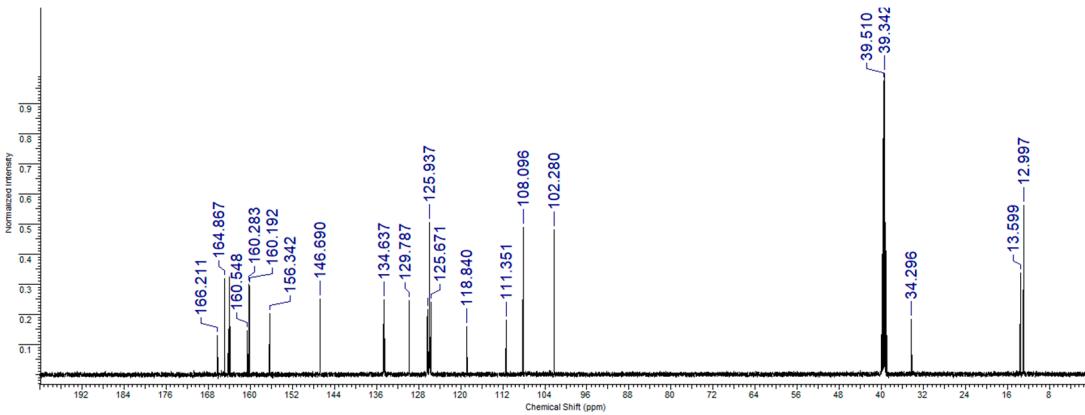


Figure S31. The ^{13}C -NMR spectrum for the compound **6c**.

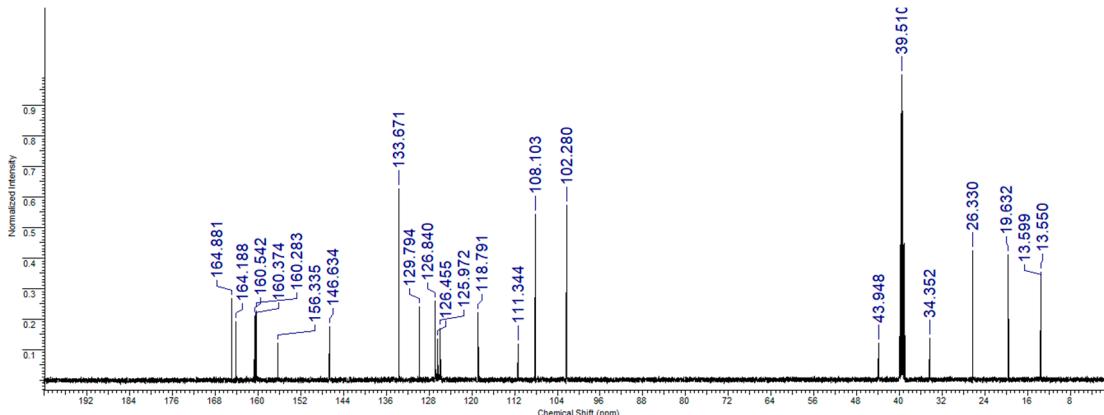


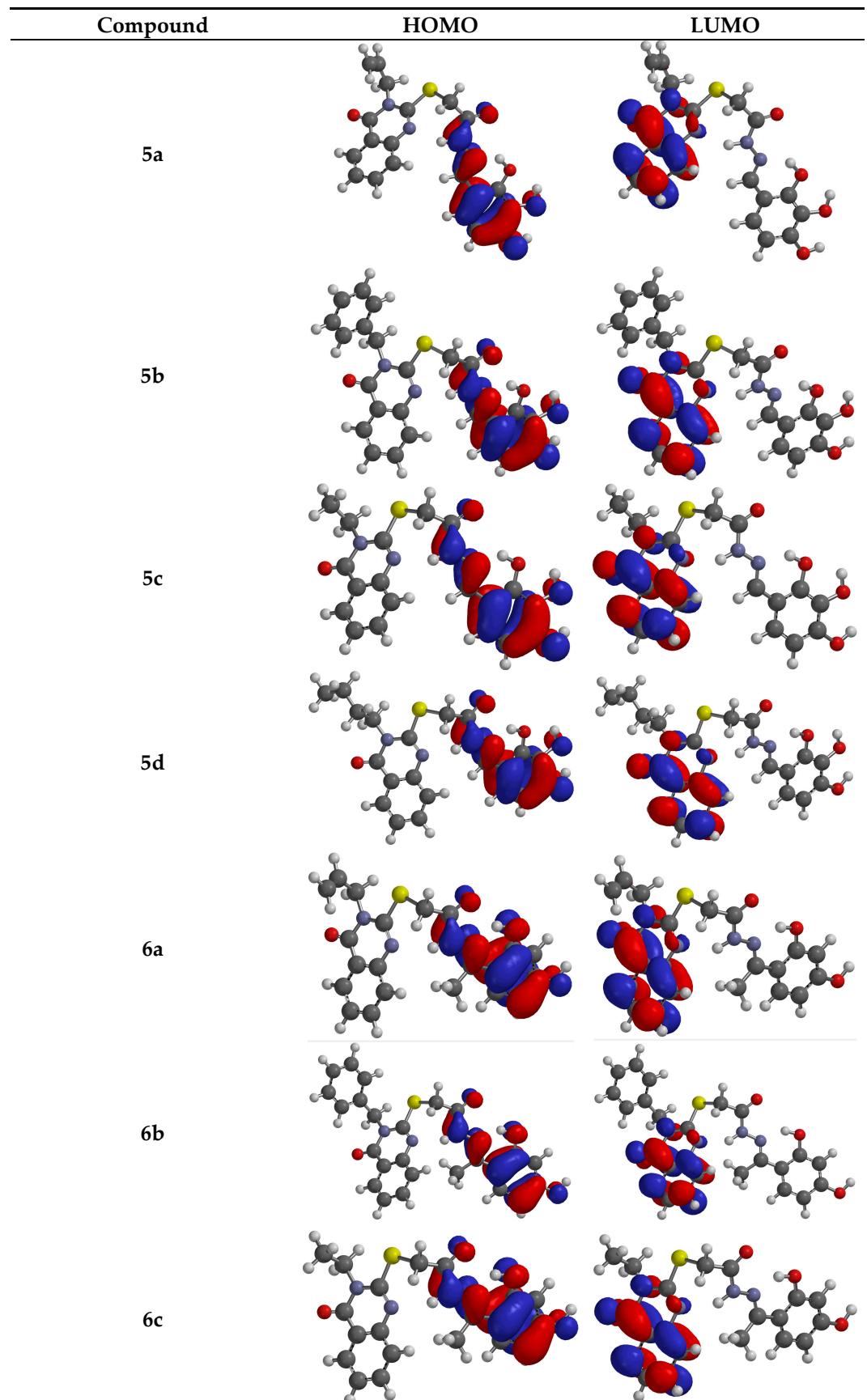
Figure S32. The ^{13}C -NMR spectrum for the compound **6d**.

2. Tables

2.1. *The depiction of HOMO and LUMO and the depiction of the spin density maps of the phenol group radicalization for the compounds 5a-d and 6a-d*

Table S1. The depiction of HOMO and LUMO for the compounds **5a-d** and **6a-d**

Compound	HOMO	LUMO
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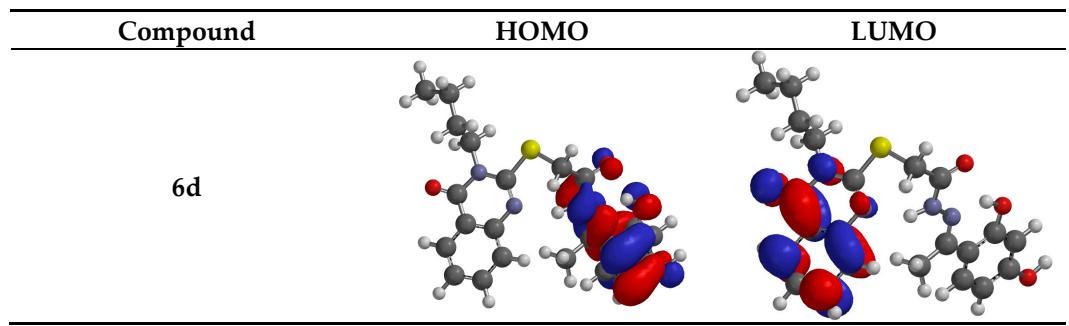
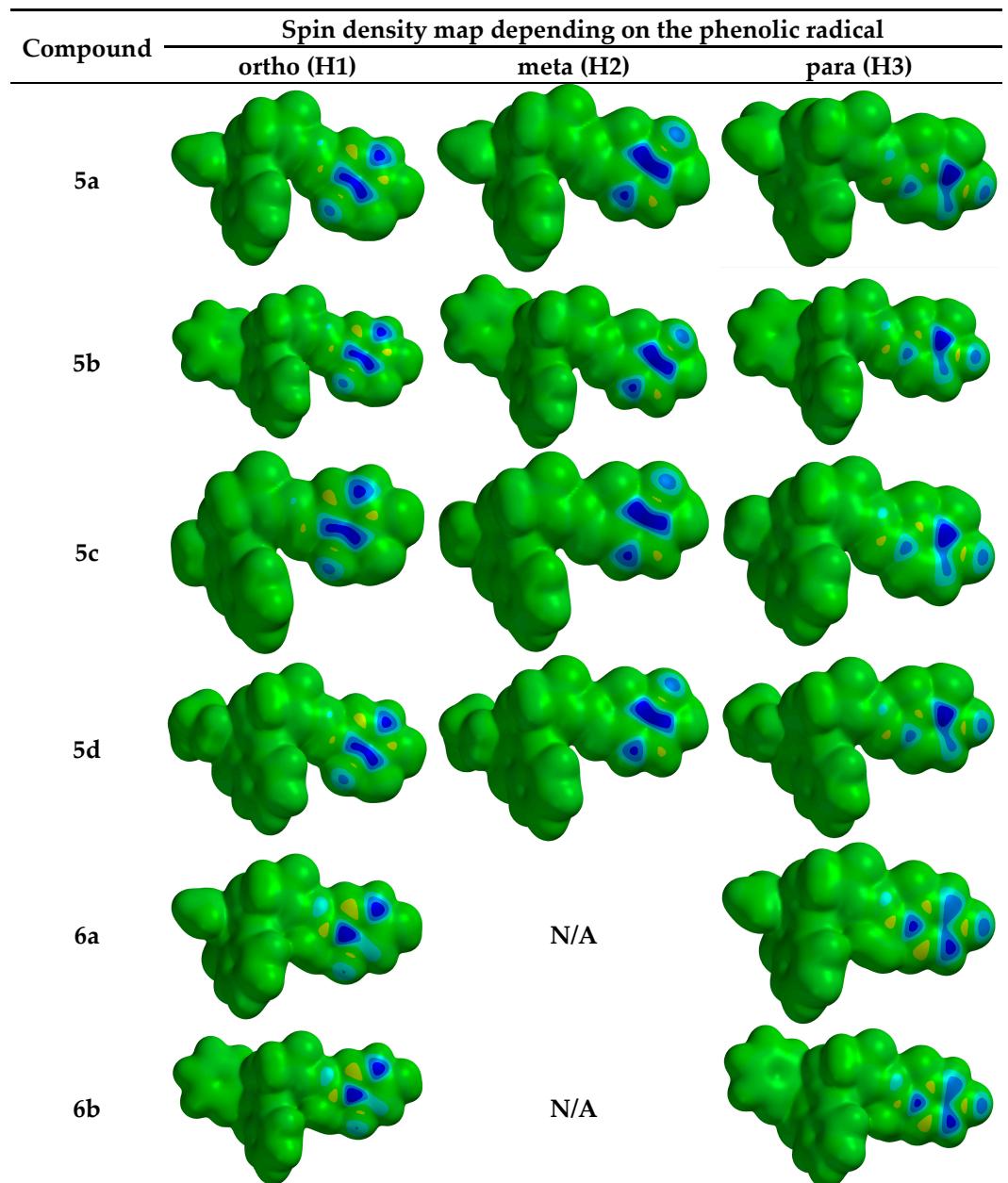
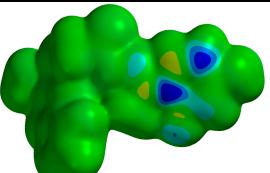
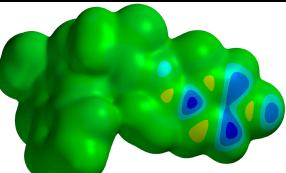
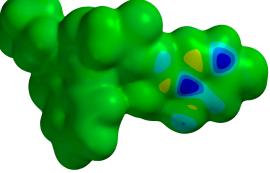


Table S2. The depiction of spin density maps for the phenol group radicalization for the compounds **5a-d** and **6a-d**



Compound	Spin density map depending on the phenolic radical		
	ortho (H1)	meta (H2)	para (H3)
6c		N/A	
6d		N/A	