"Supporting Information"

Novel 5,6,7,8-tetrahydrobenzo[b]pyran Derivatives: Synthesis and Anticancer Activity

Amira E. M. Abdallah, 1* Rafat M. Mohareb, 2 Maher H. E. Helal, Mariam M. Abd Elkader

¹Department of Chemistry, Faculty of Science, Helwan University, Ain Helwan, Cairo, 11795, A. R. Egypt

²Department of Chemistry, Faculty of Science, Cairo University, Giza 12614, A. R. Egypt

*Correspondence: Amira E. M. Abdallah

Tel: +2 01091769838, Email: amiraelsayed135@yahoo.com

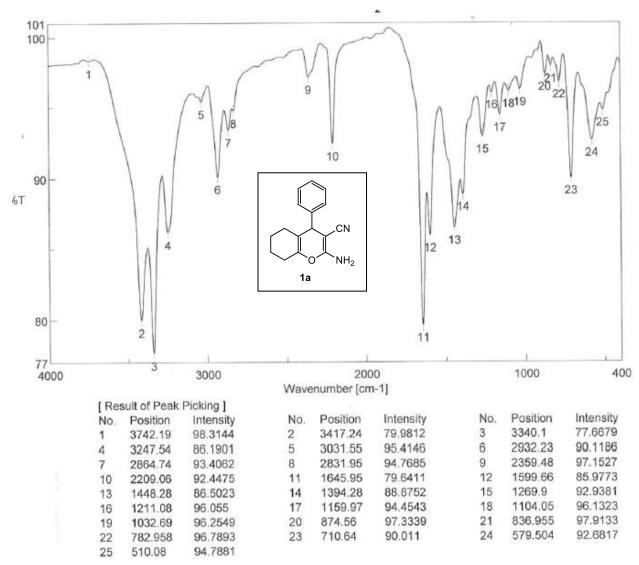
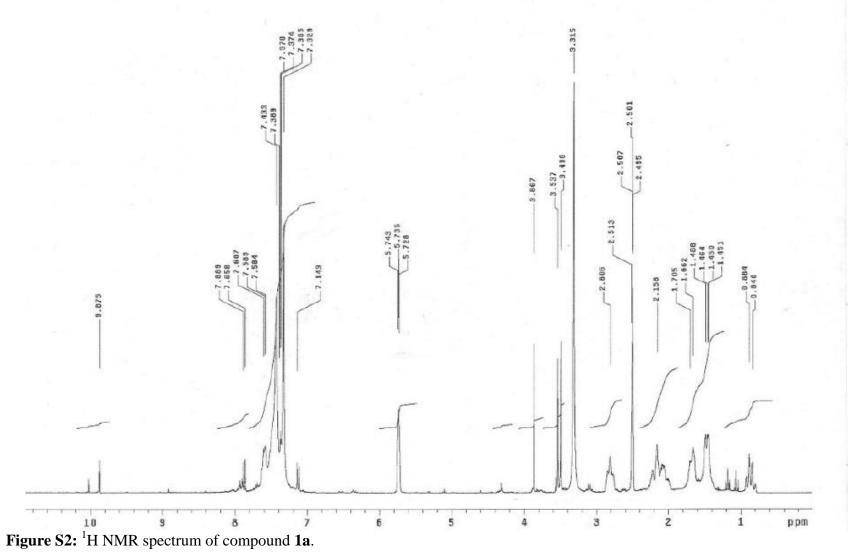


Figure S1: IR spectrum of compound 1a.



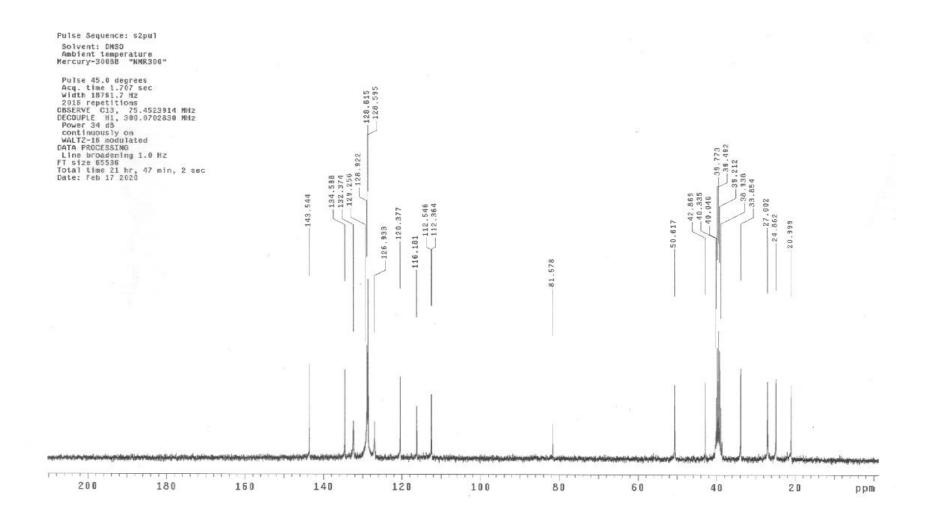


Figure S3: ¹³C NMR spectrum of compound 1a.

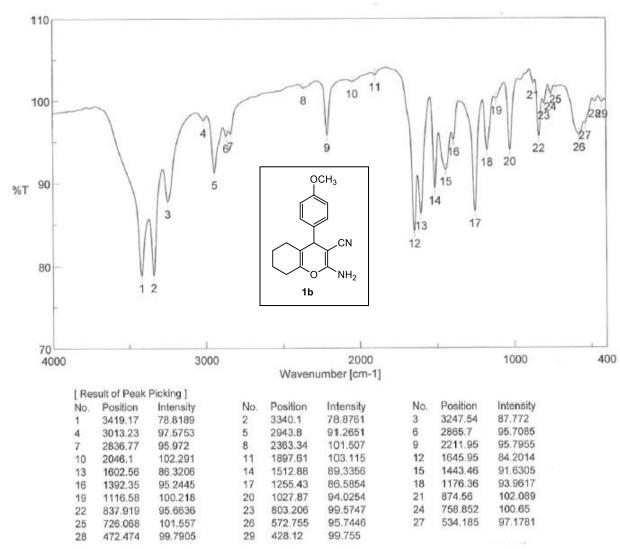


Figure S4: IR spectrum of compound 1b.

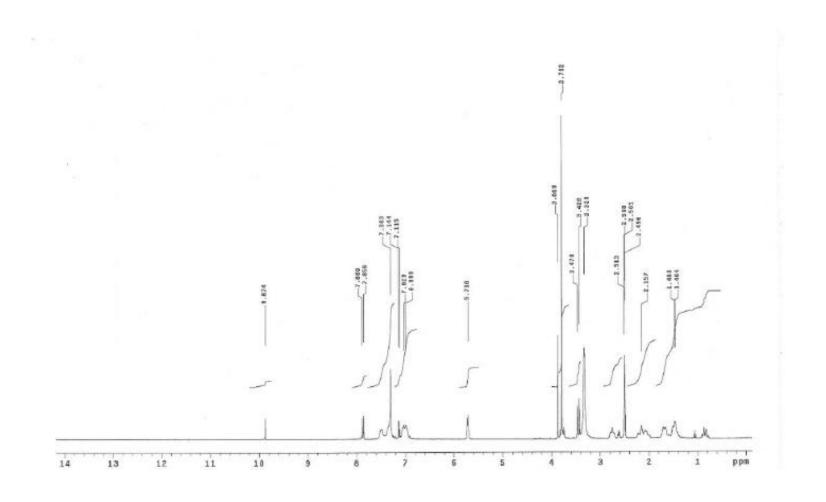


Figure S5: ¹H NMR spectrum of compound **1b**.

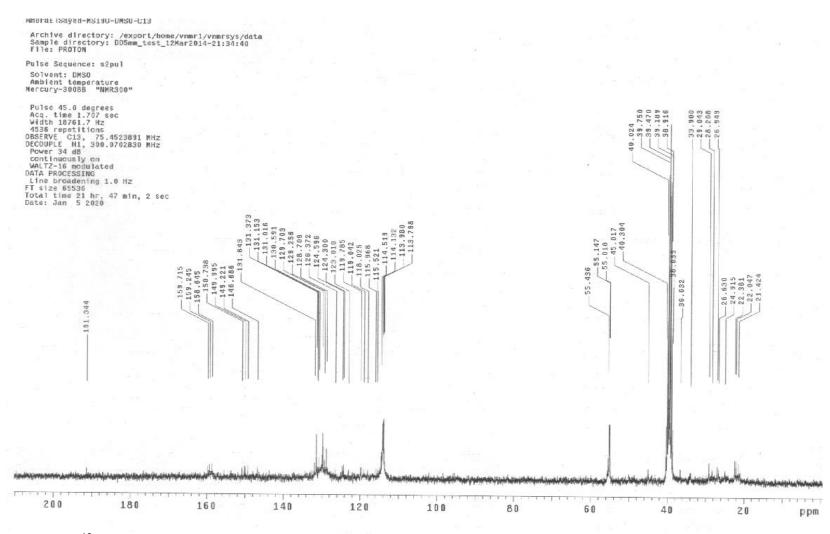


Figure S6: ¹³C NMR spectrum of compound 2b.

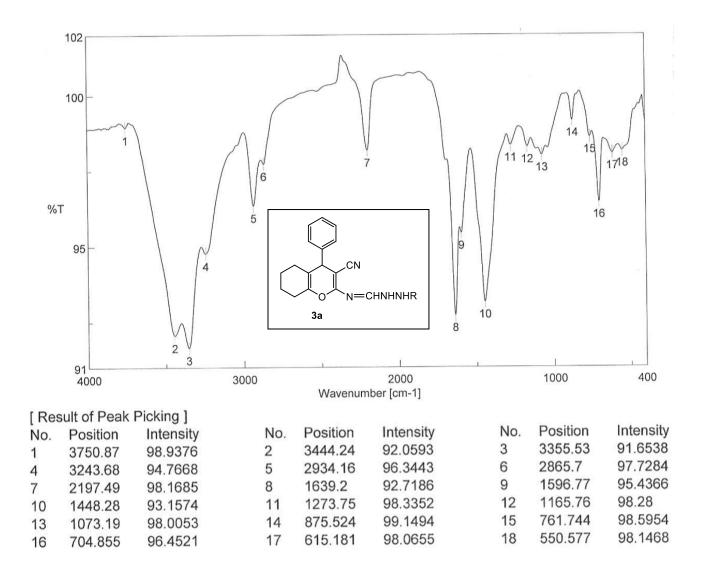


Figure S7: IR spectrum of compound 3a.

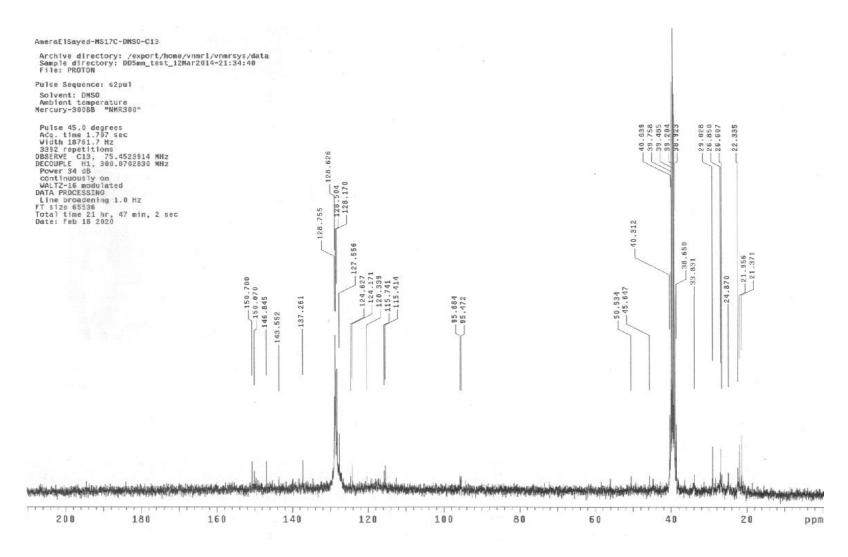


Figure S8: ¹³C NMR spectrum of compound 3a.

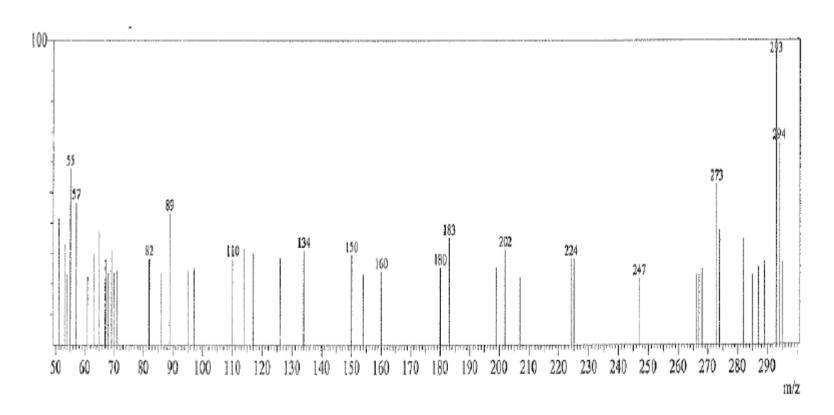


Figure S9: Mass spectrum of compound 3a.

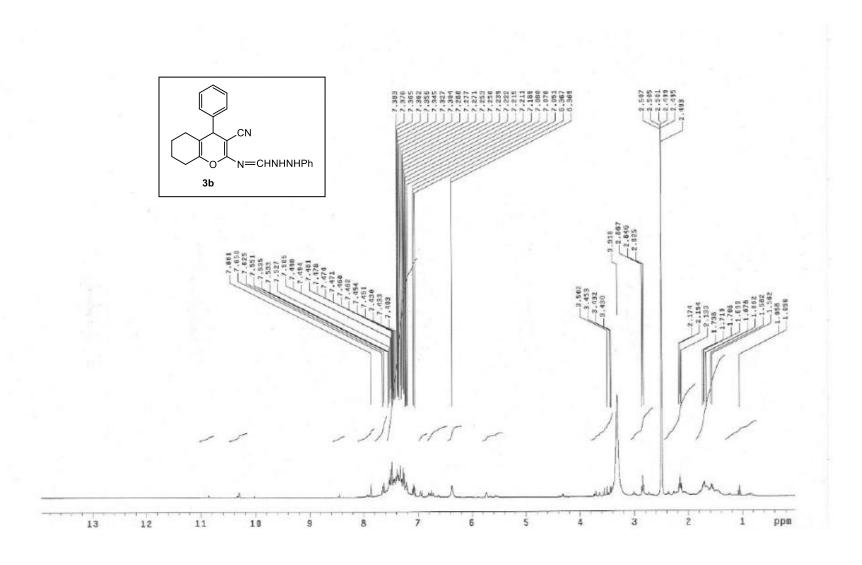


Figure S10: ¹H NMR spectrum of compound **3b**.

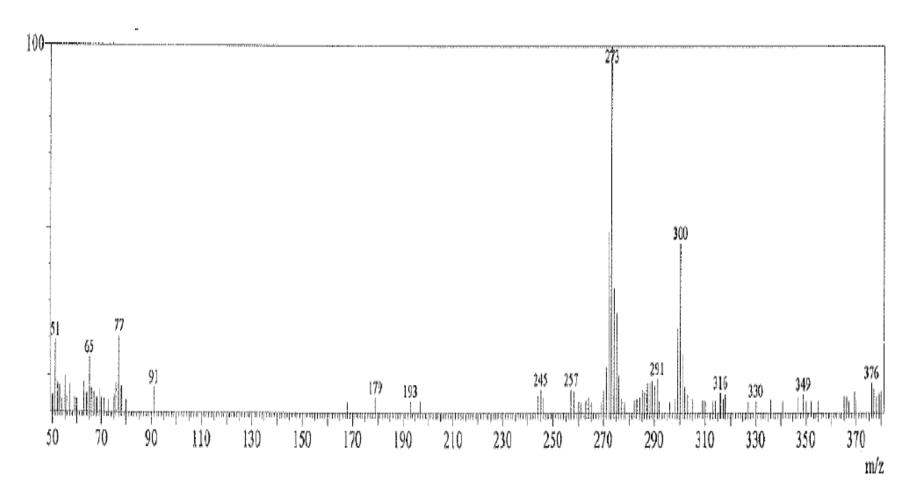


Figure S11: Mass spectrum of compound 3b.

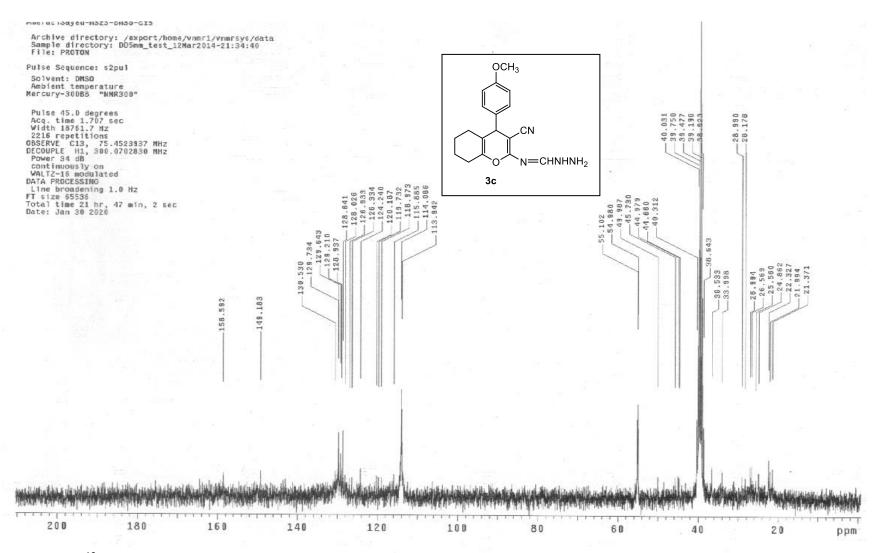


Figure S12: ¹³C NMR spectrum of compound **3c**.

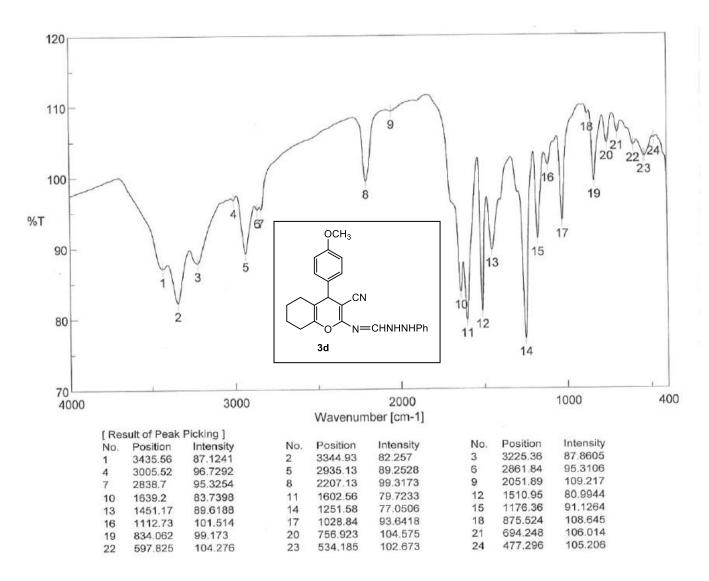


Figure S13: IR spectrum of compound 3d.

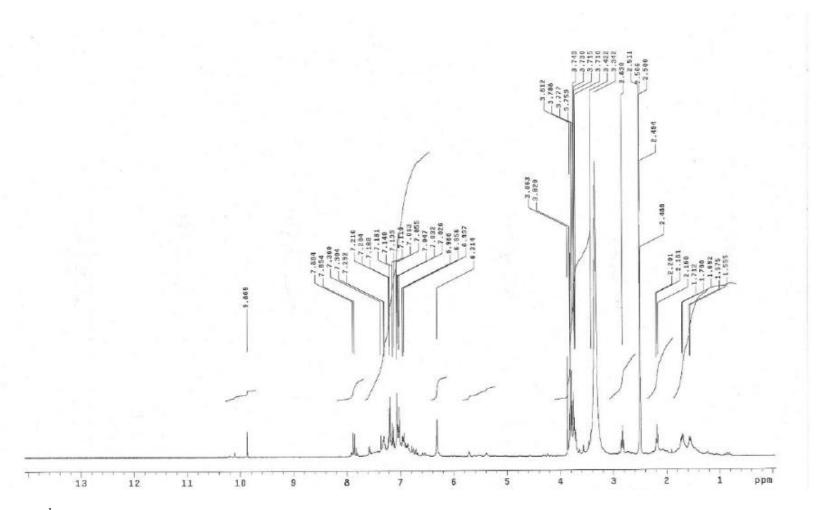


Figure S14: ¹H NMR spectrum of compound **3d**.

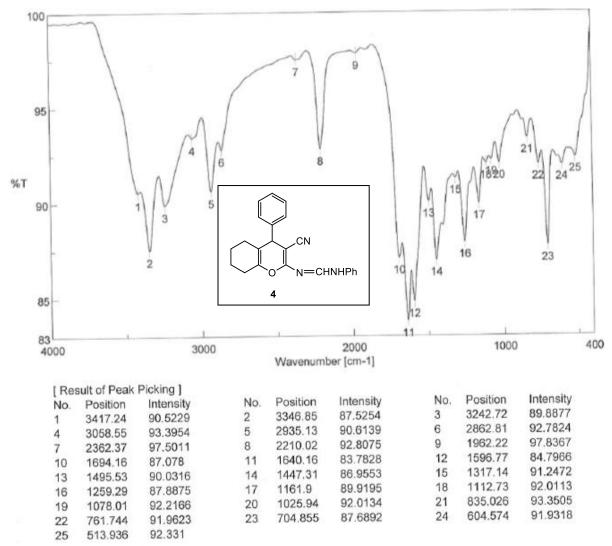


Figure S15: IR spectrum of compound 4.

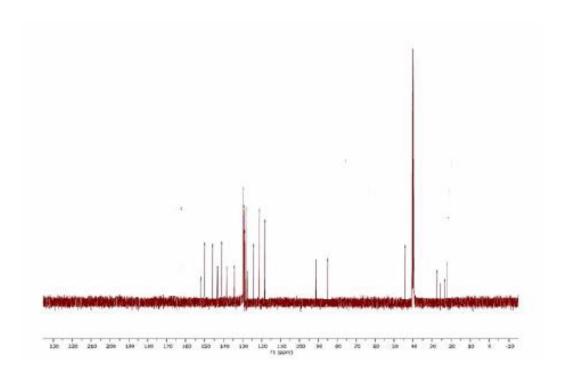


Figure S16: ¹³C NMR spectrum of compound **4**.

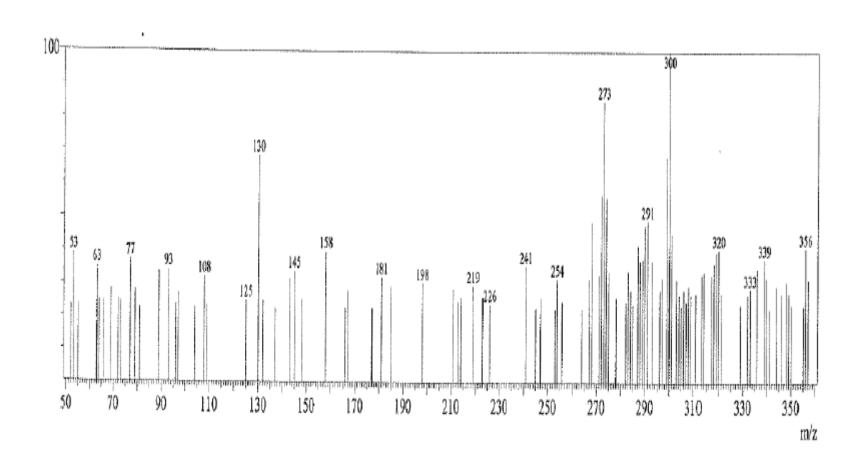


Figure S17: Mass spectrum of compound 4.

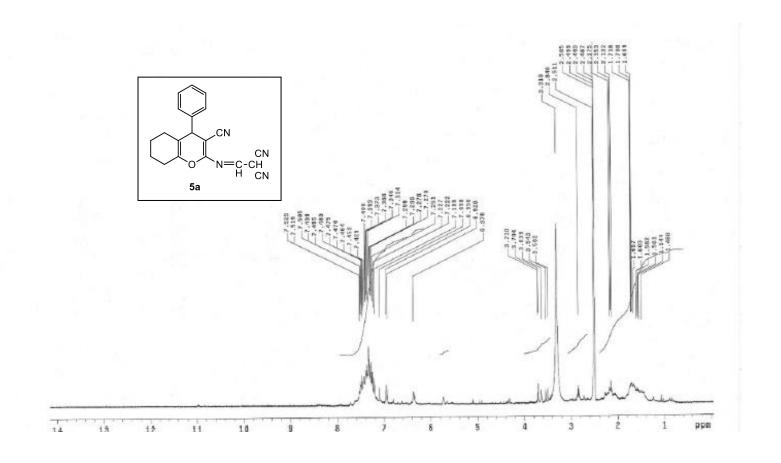


Figure S18: ¹H NMR spectrum of compound **5a**.

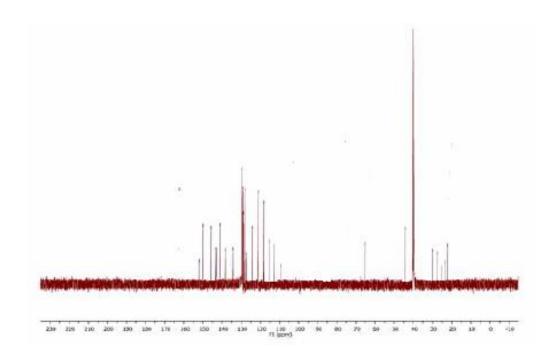


Figure S19: ¹³C NMR spectrum of compound **5a**.

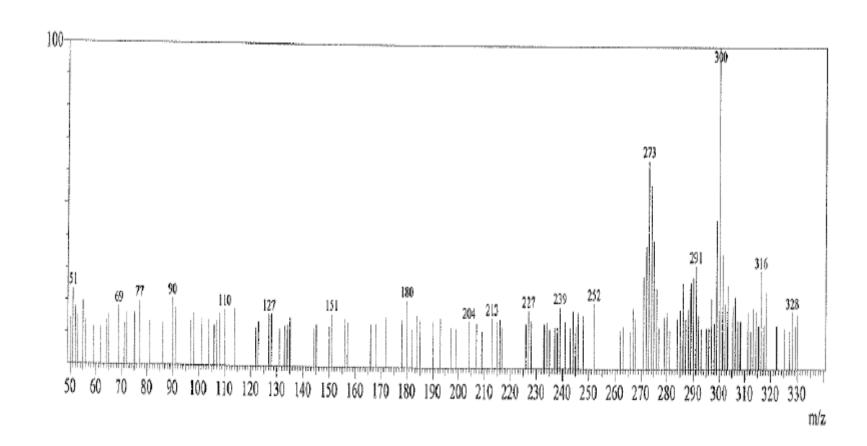


Figure S20: Mass spectrum of compound 5a.

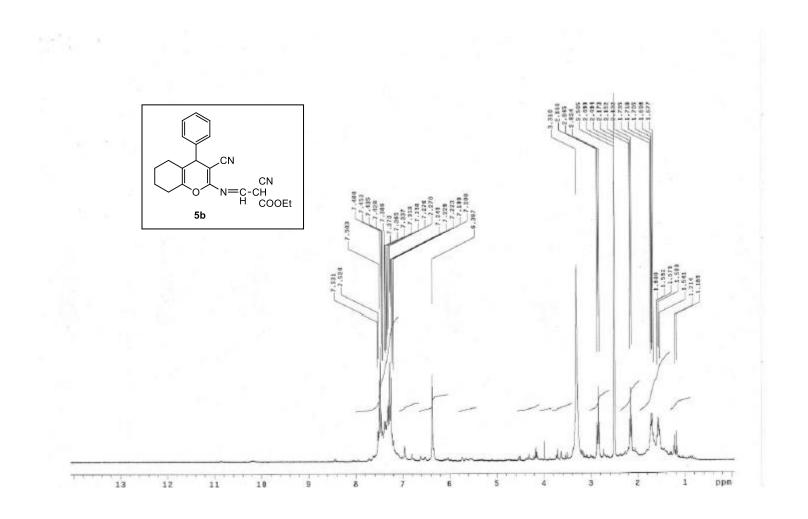


Figure S21: ¹H NMR spectrum of compound **5b**.

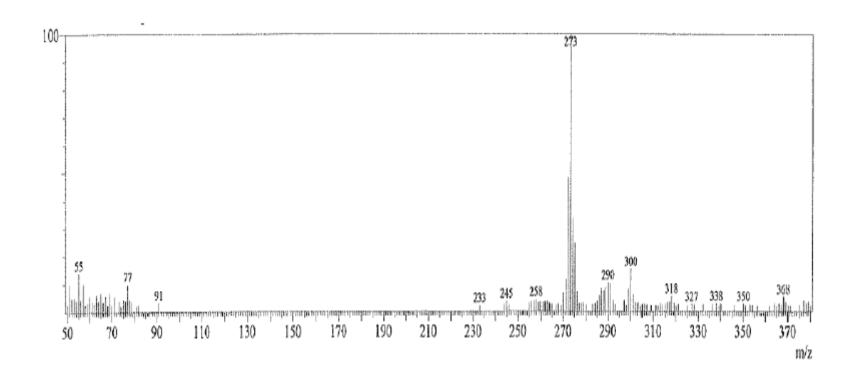


Figure S22: Mass spectrum of compound 5b.

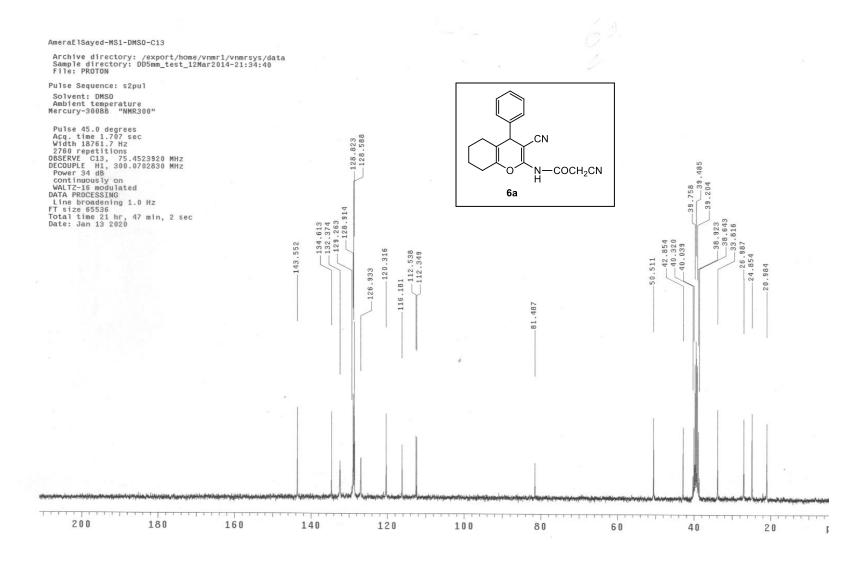


Figure S23: ¹³C NMR spectrum of compound **6a**.

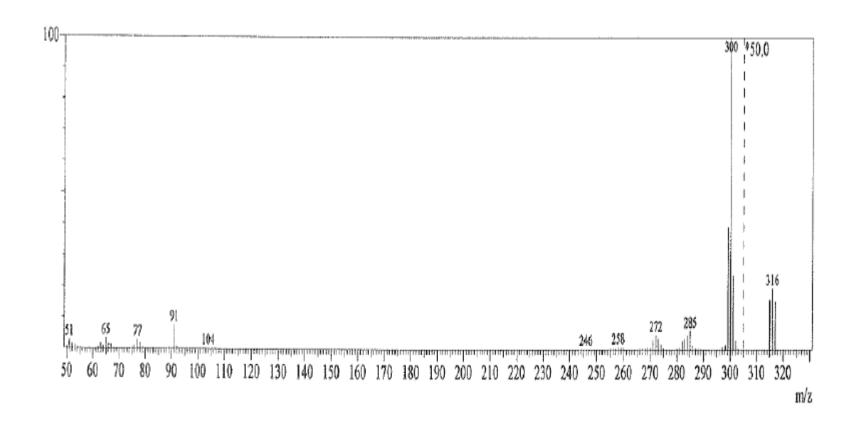


Figure S24: Mass spectrum of compound 6a.

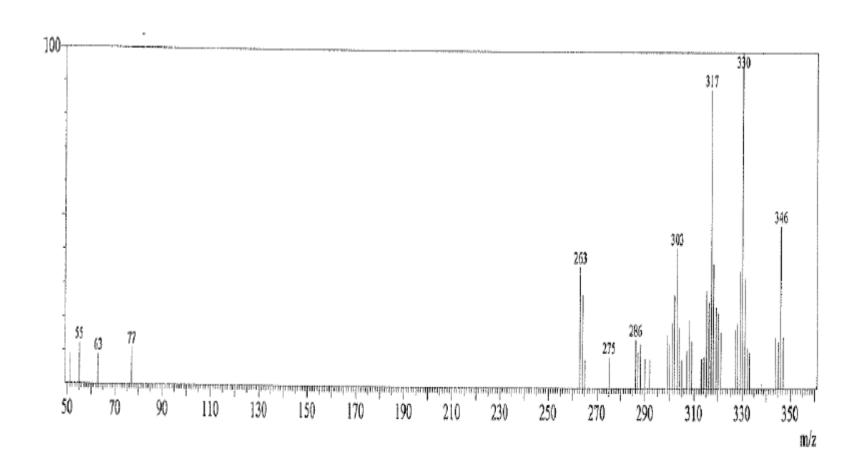


Figure S25: Mass spectrum of compound 6b.

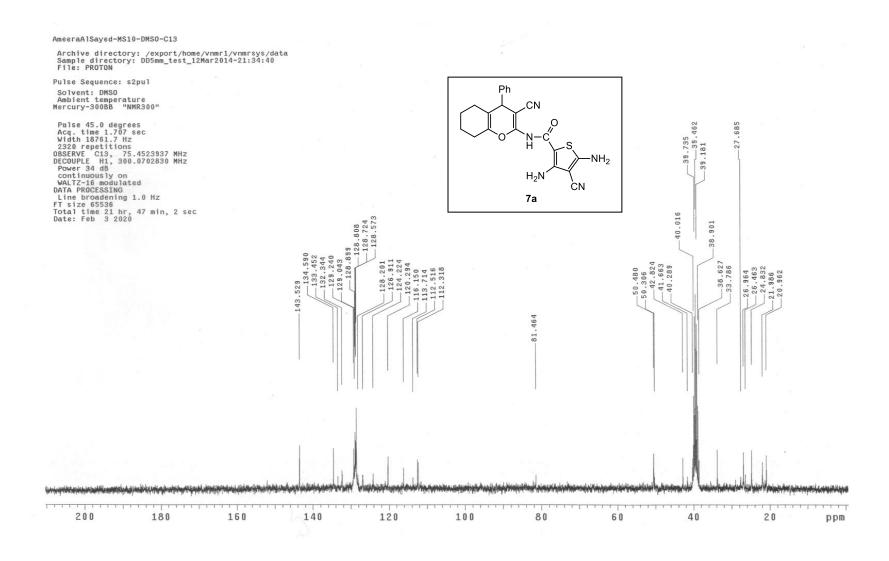


Figure S26: ¹³C NMR spectrum of compound **7a**.

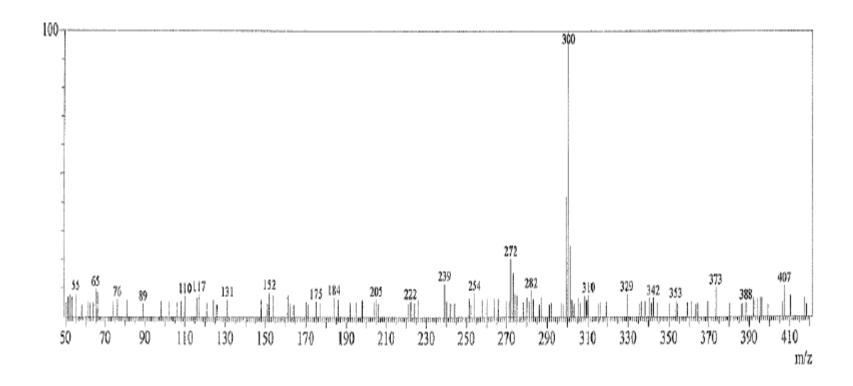


Figure S27: Mass spectrum of compound 7a.

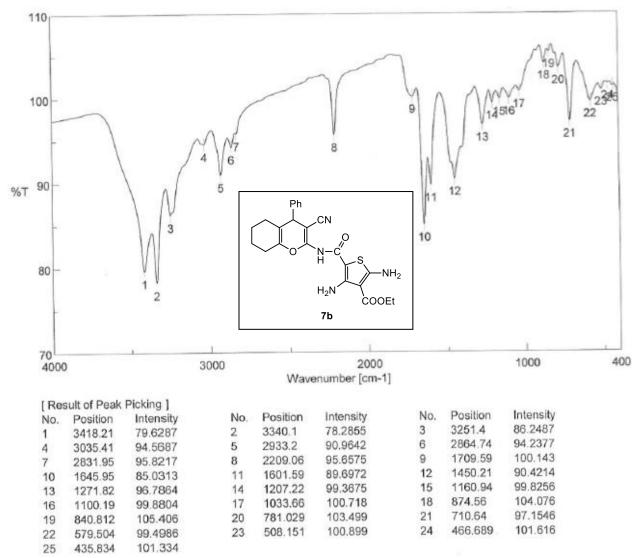


Figure S28: IR spectrum of compound 7b.

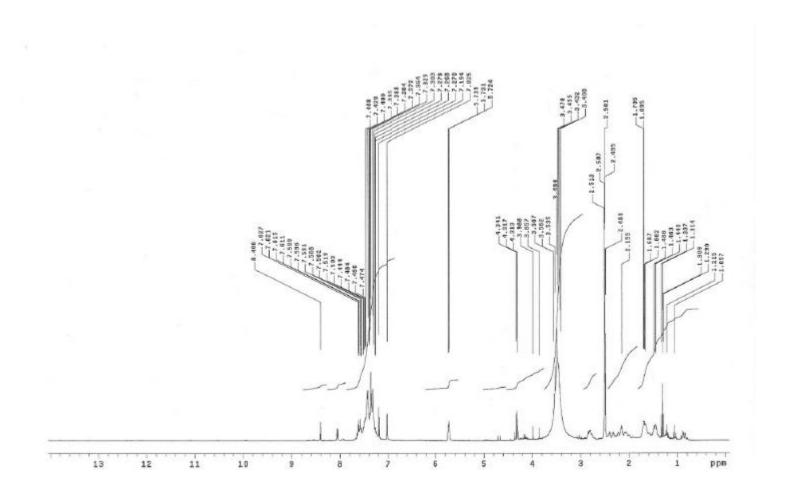


Figure S29: ¹H NMR spectrum of compound **7b**.

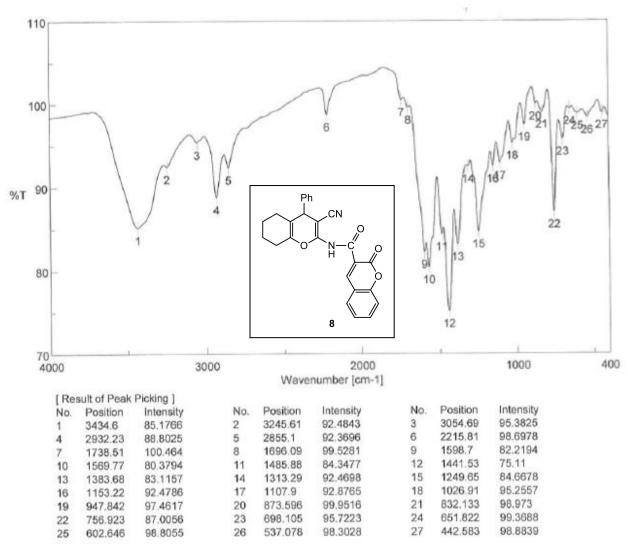


Figure S30: IR spectrum of compound 8.

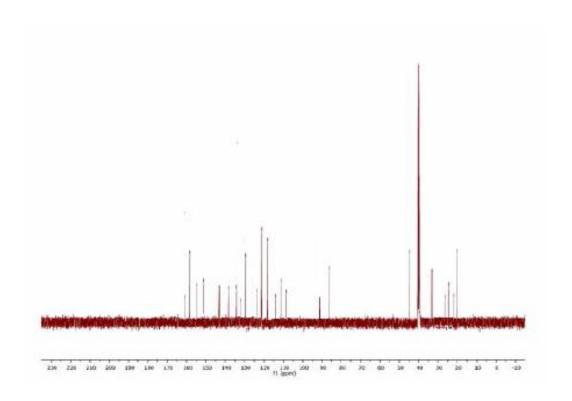


Figure S31: ¹³C NMR spectrum of compound **8**.

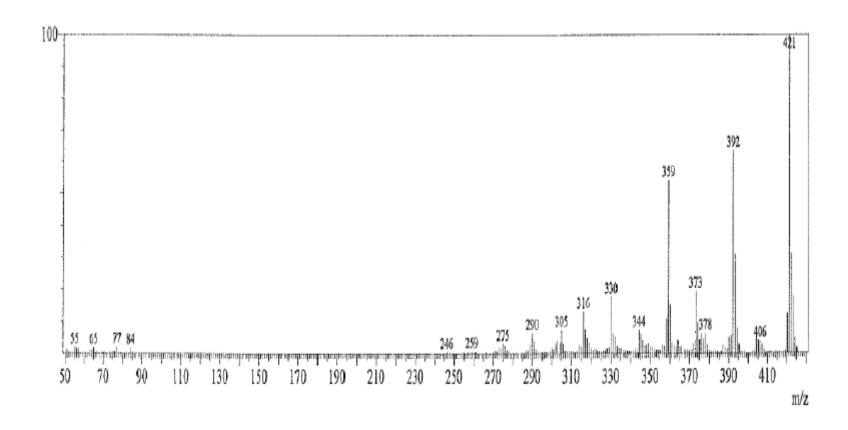


Figure S32: Mass spectrum of compound 8.

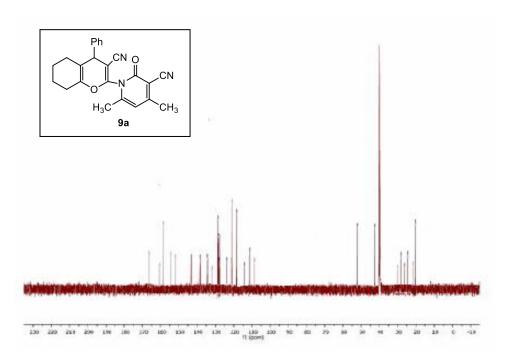


Figure S33: ¹³C NMR spectrum of compound **9a**.

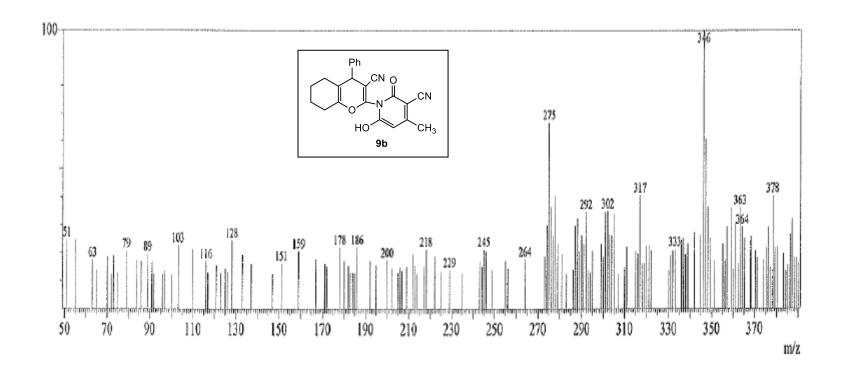


Figure S34: Mass spectrum of compound 9b.

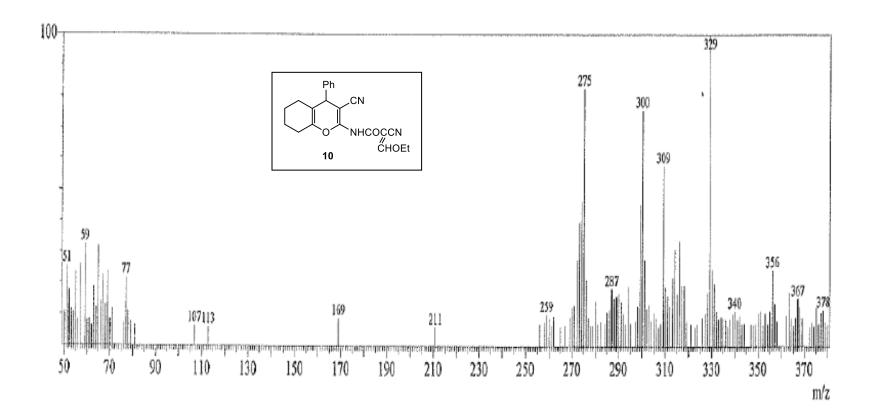


Figure S35: Mass spectrum of compound 10.

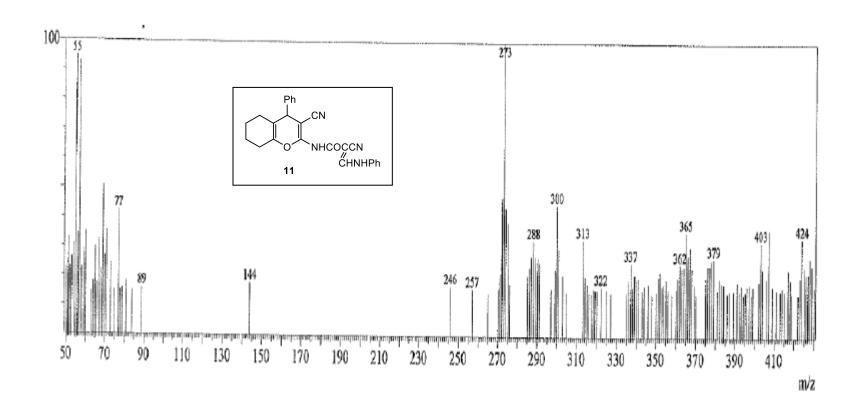


Figure S36: Mass spectrum of compound **11**.

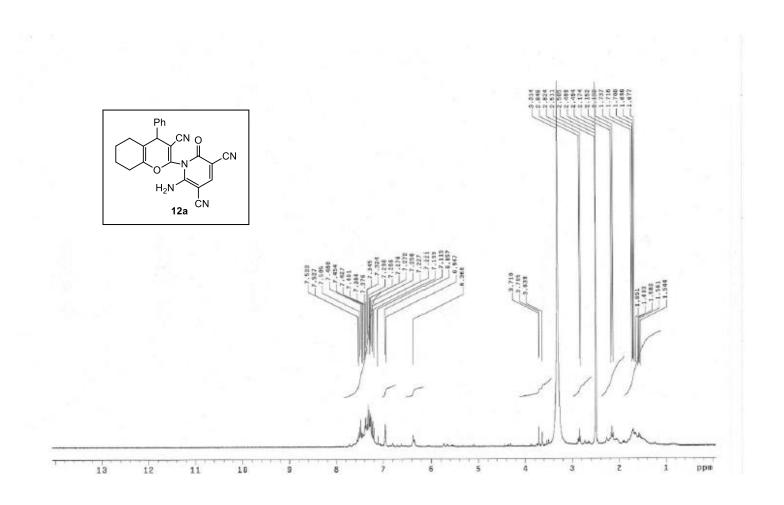


Figure S37: ¹H NMR spectrum of compound **12a**.

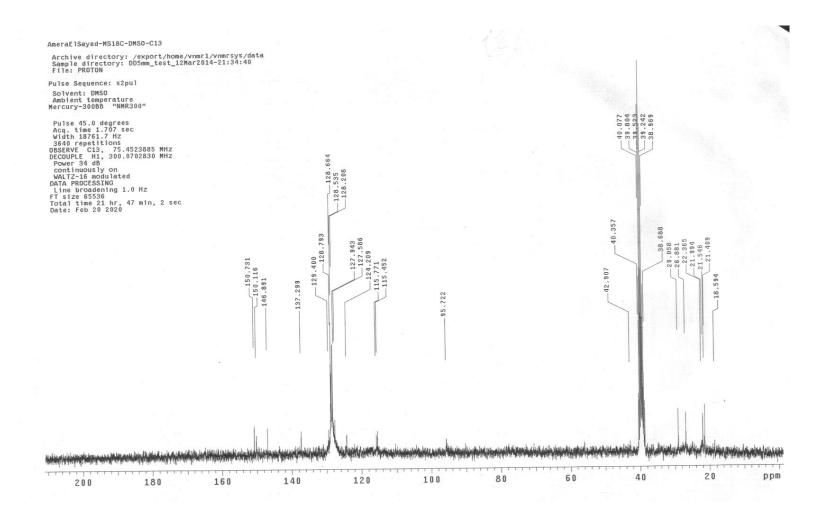


Figure S38: ¹³C NMR spectrum of compound **12a**.

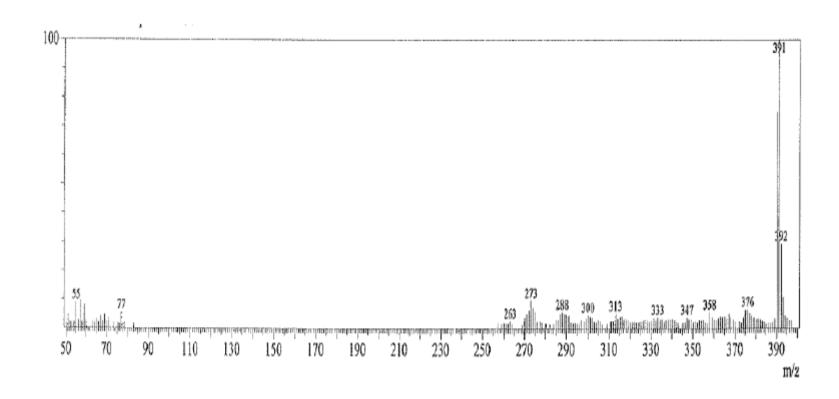


Figure S39: Mass spectrum of compound 12a.

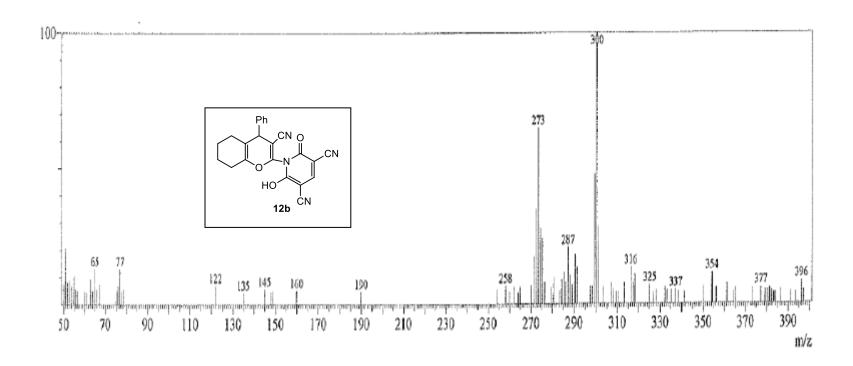


Figure S40: Mass spectrum of compound 12b.