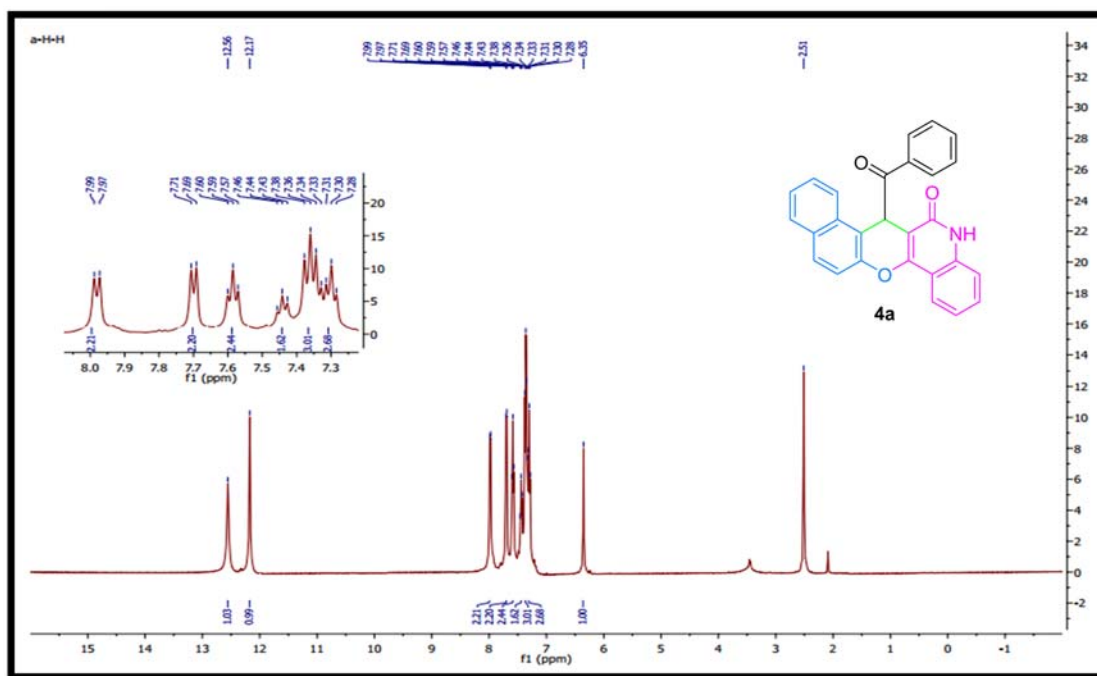


Supplementary material



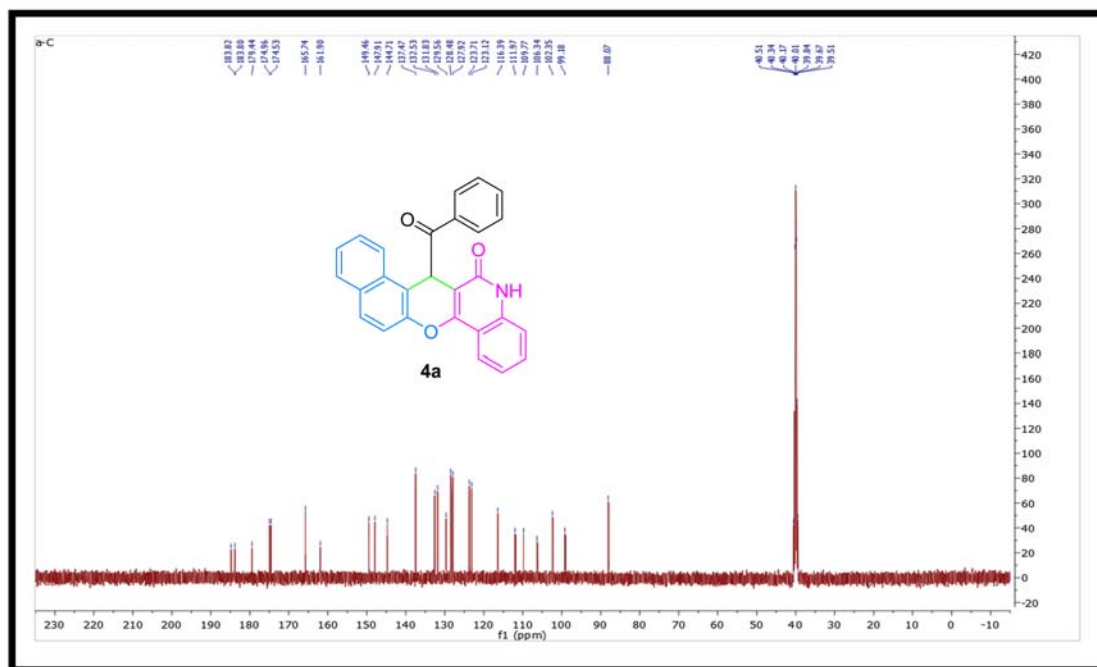
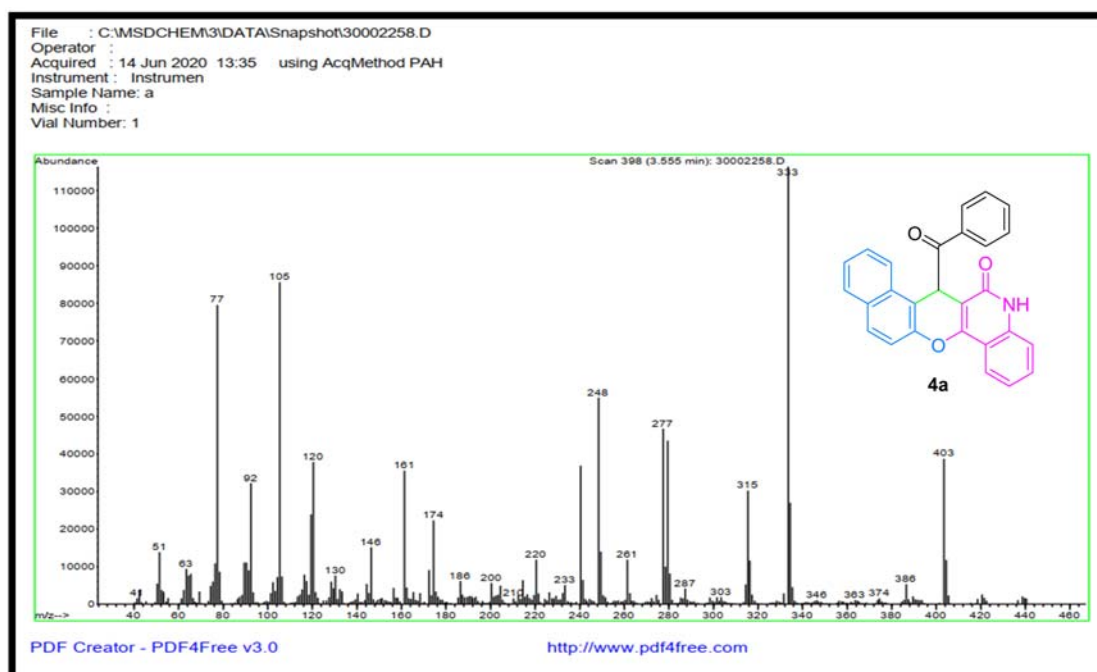
Figure S2: ^{13}C NMR spectrum of compound 4a.

Figure S3: Mass spectrum of compound 4a.

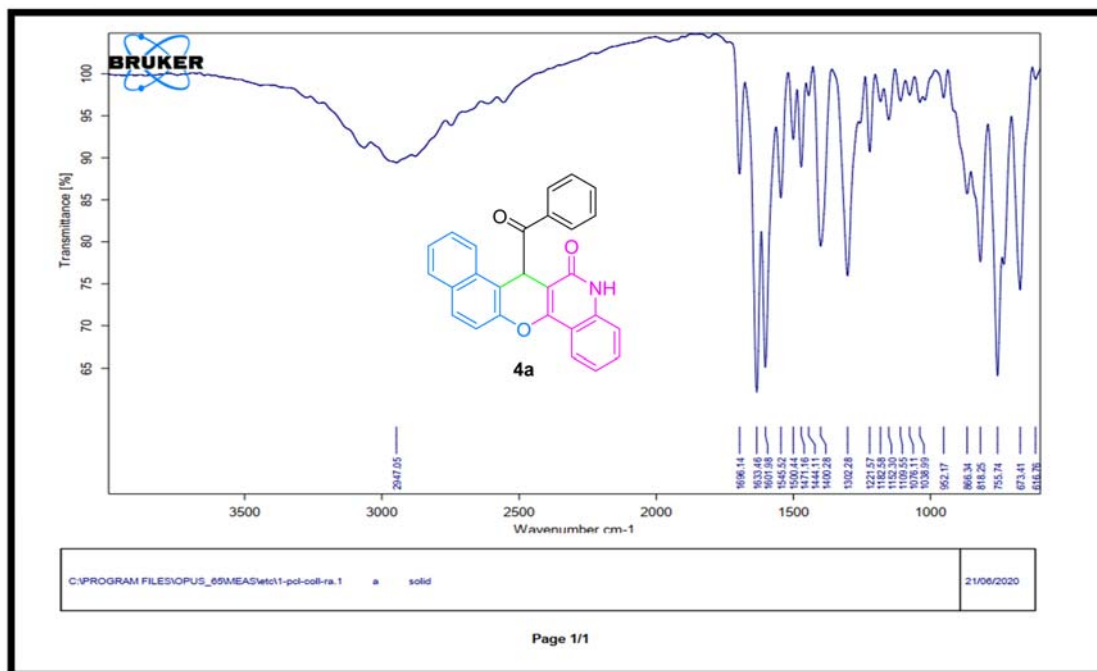
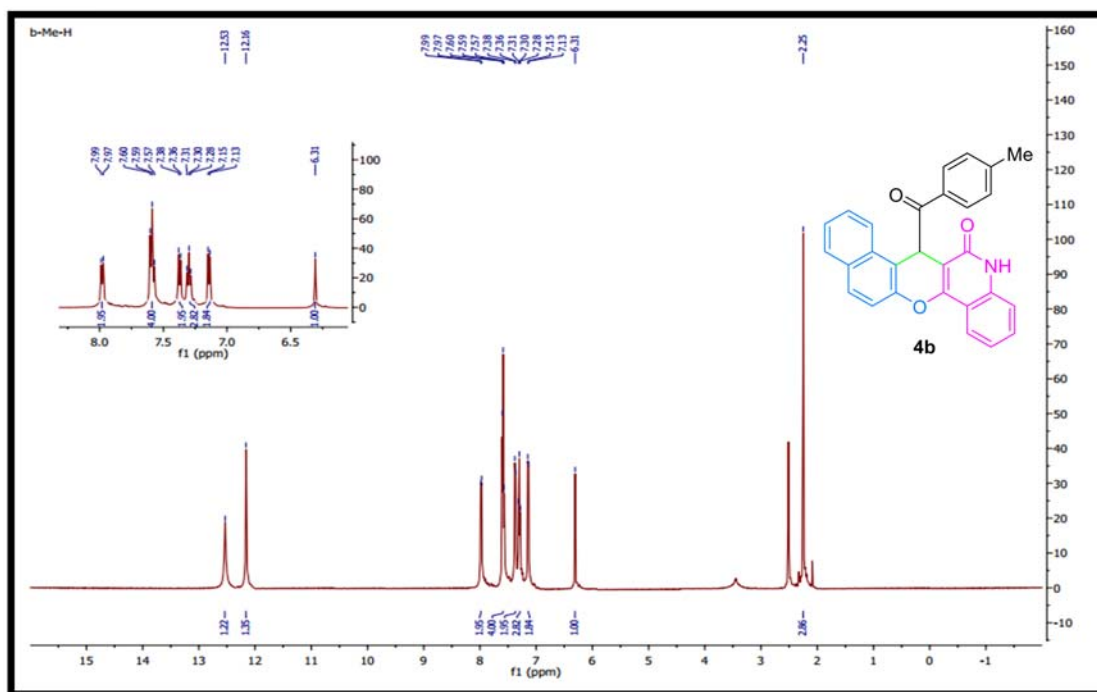
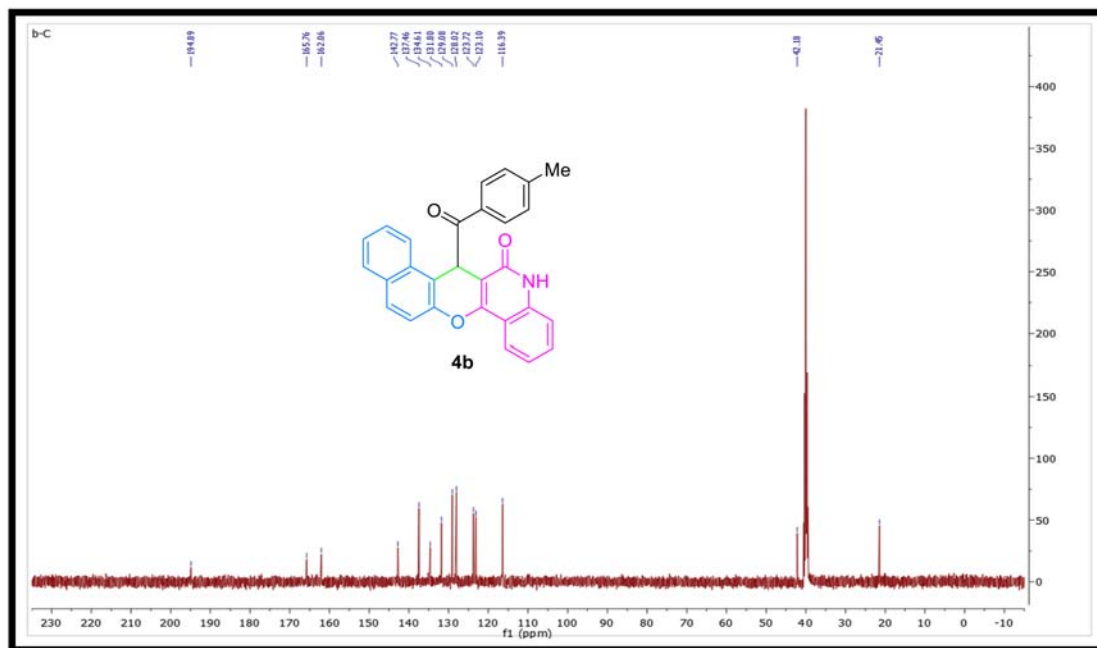
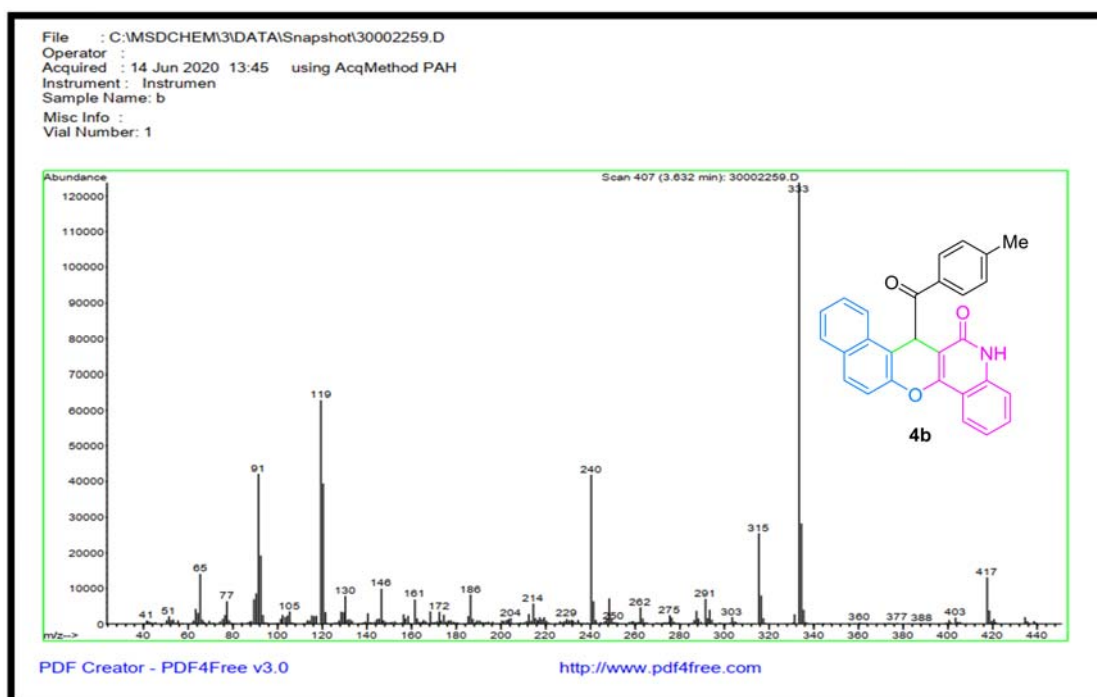


Figure S4: IR spectrum of compound 4a.

Figure S5: ¹H NMR spectrum of compound 4b.

Figure S6: ^{13}C NMR spectrum of compound **4b**.Figure S7: Mass spectrum of compound **4b**.

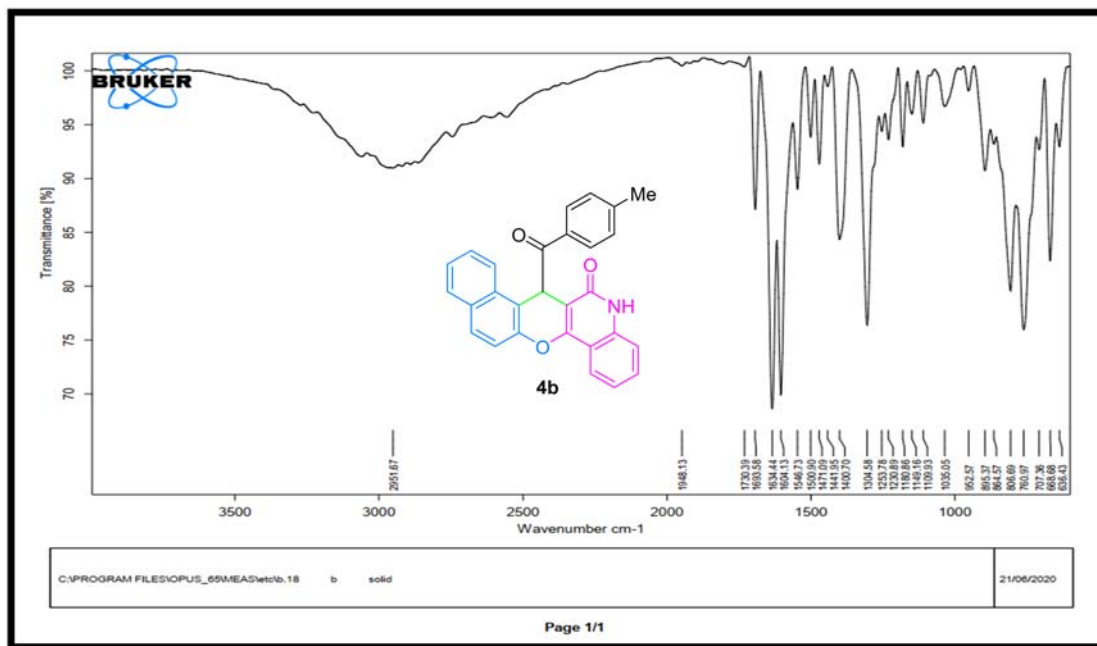
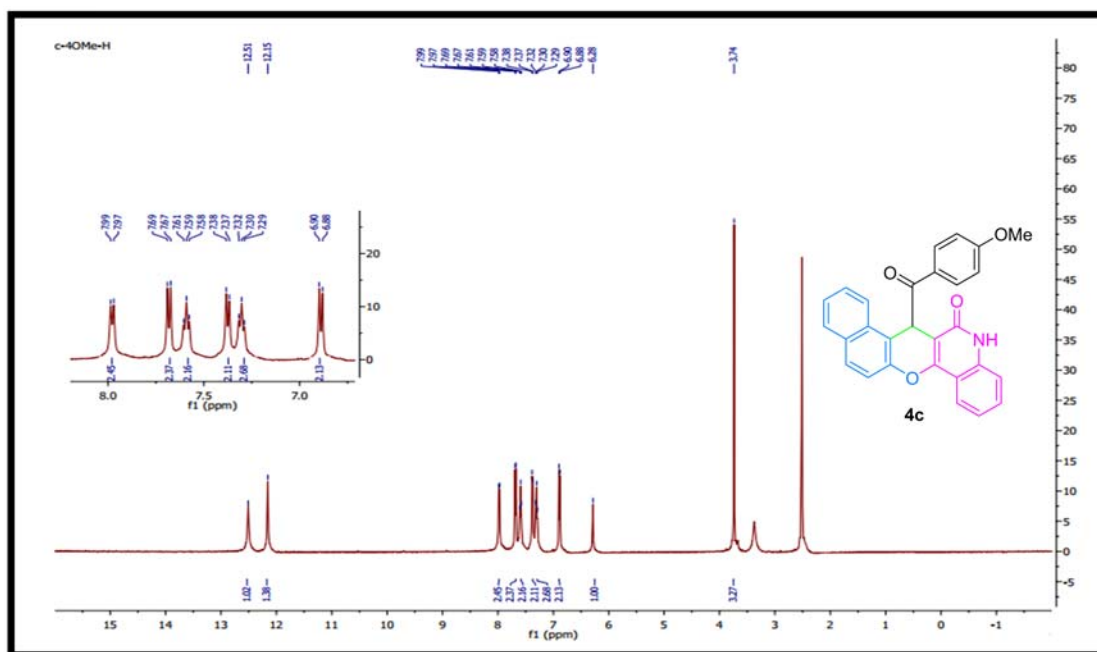
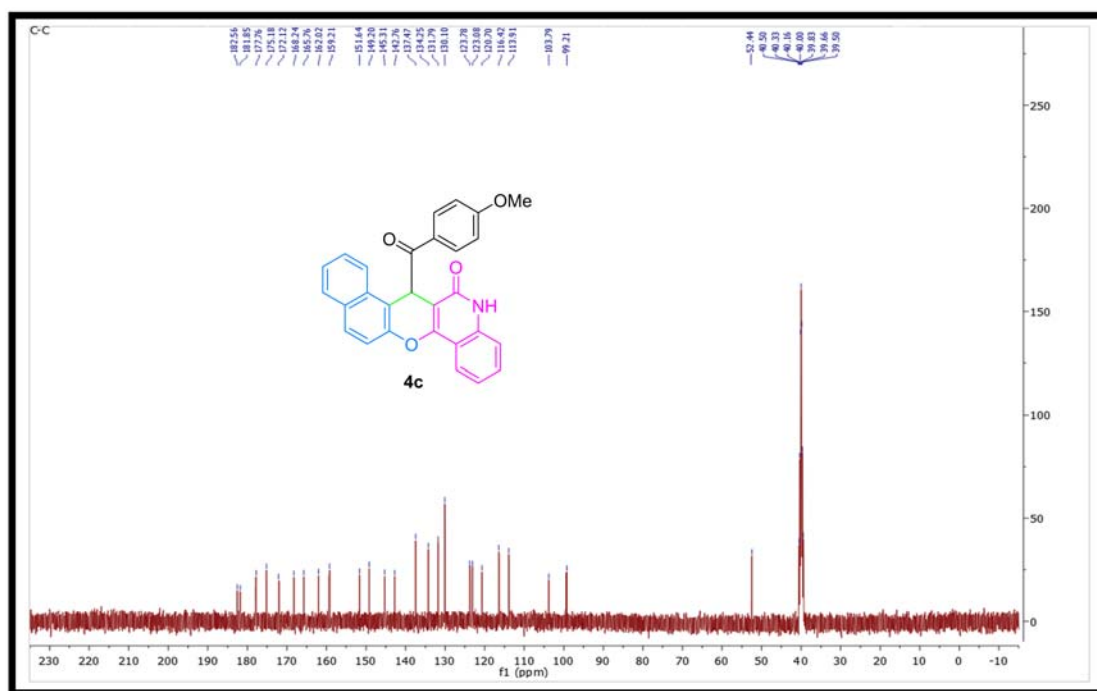


Figure S8: IR spectrum of compound 4b.

Figure S9: ¹H NMR spectrum of compound 4c.



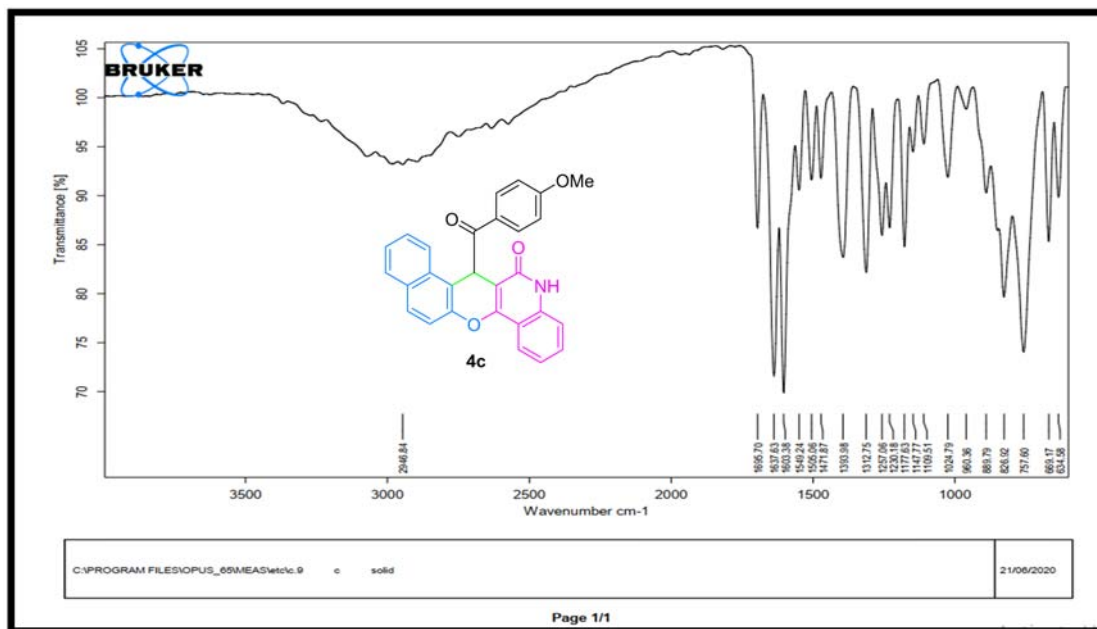
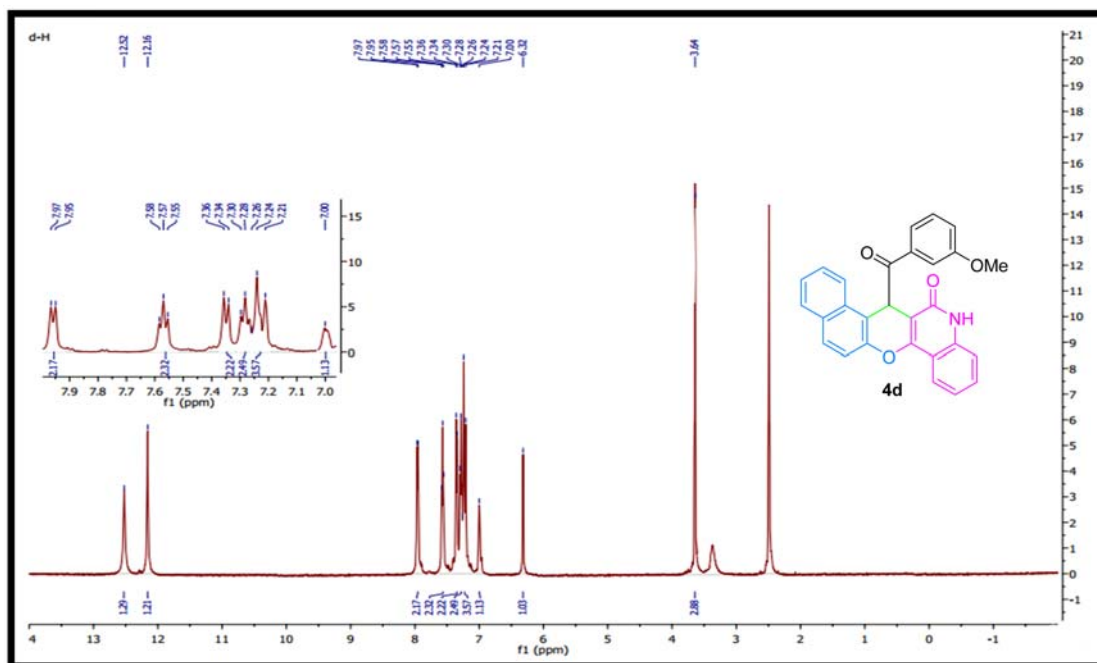


Figure S12: IR spectrum of compound 4c.

Figure S13: ¹H NMR spectrum of compound 4d.

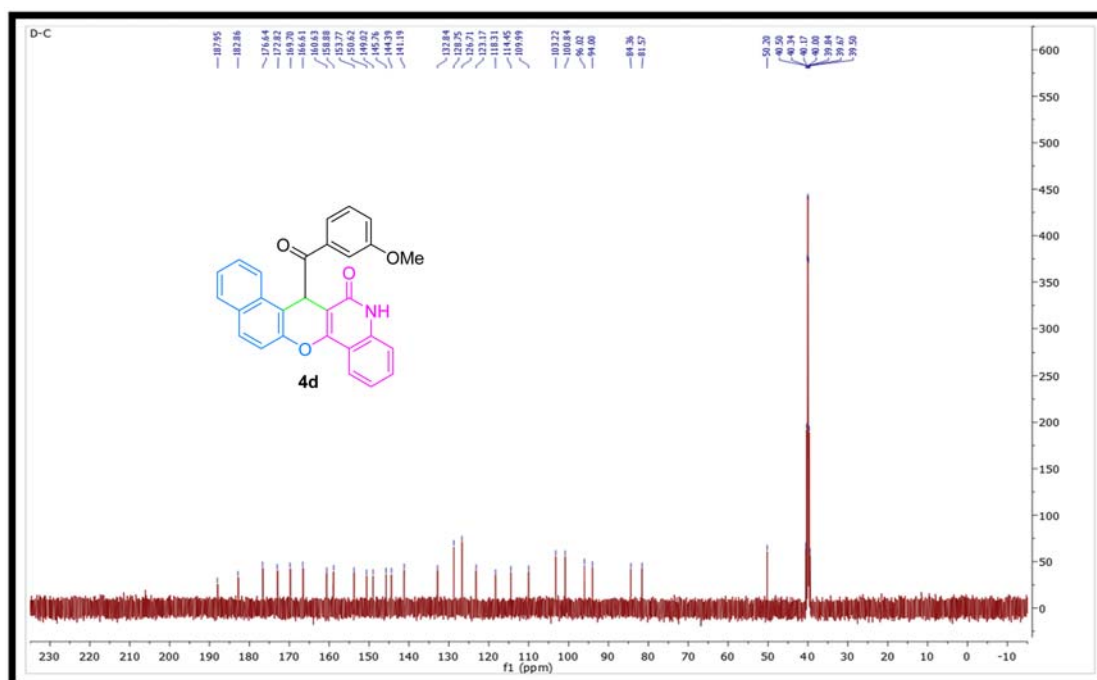
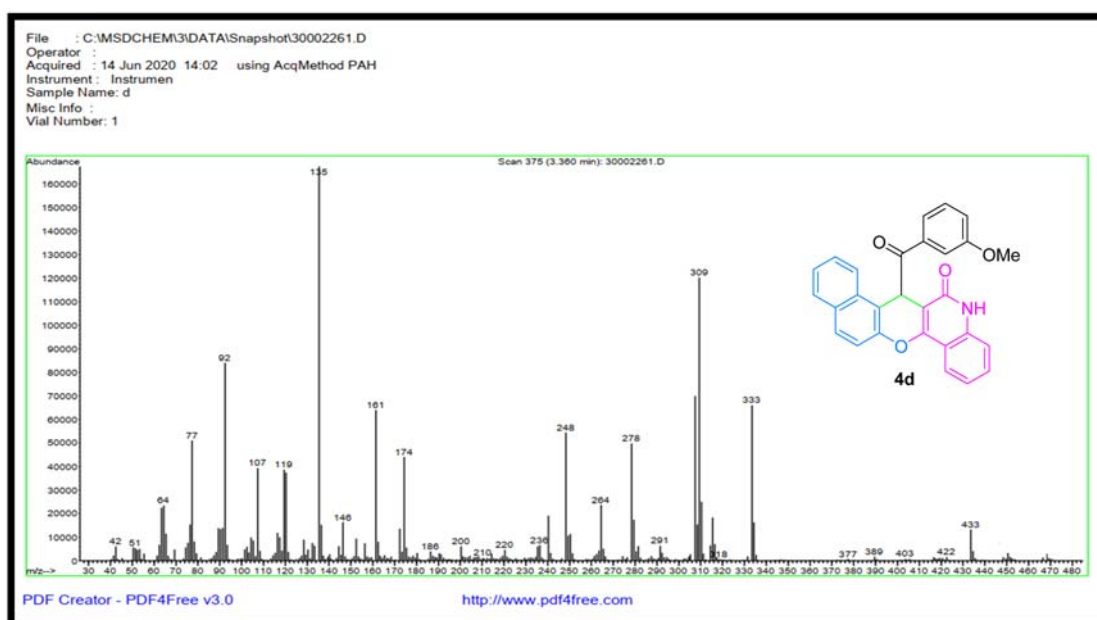
Figure S14: ¹³C NMR spectrum of compound 4d.

Figure S15: Mass spectrum of compound 4d.

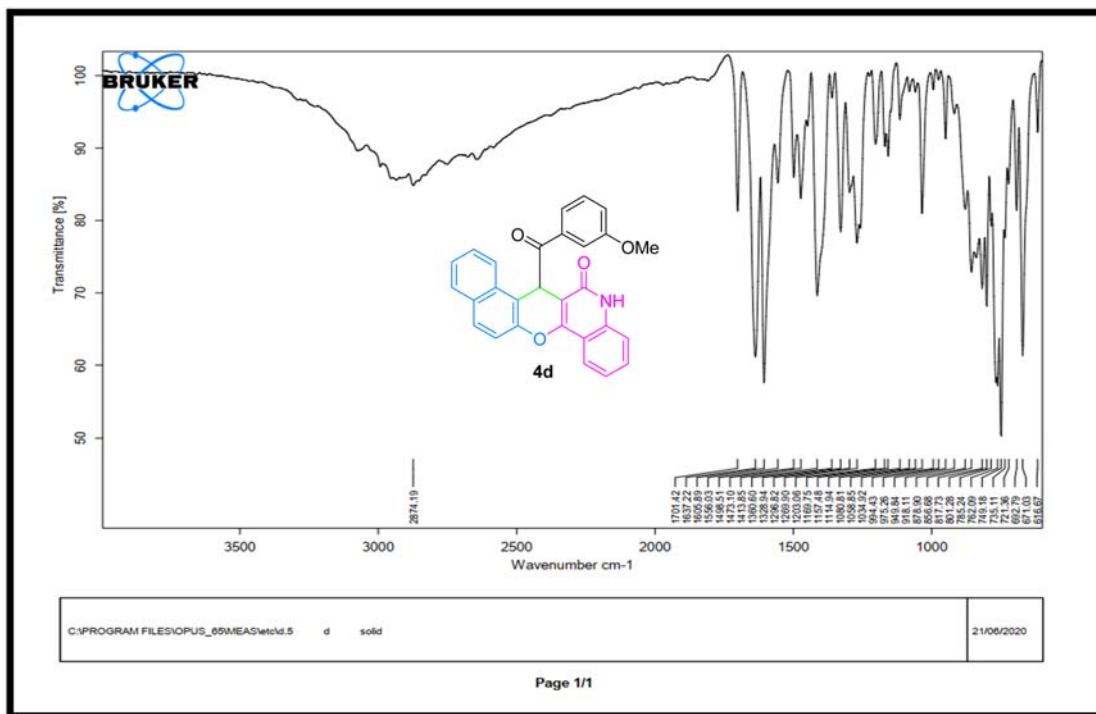
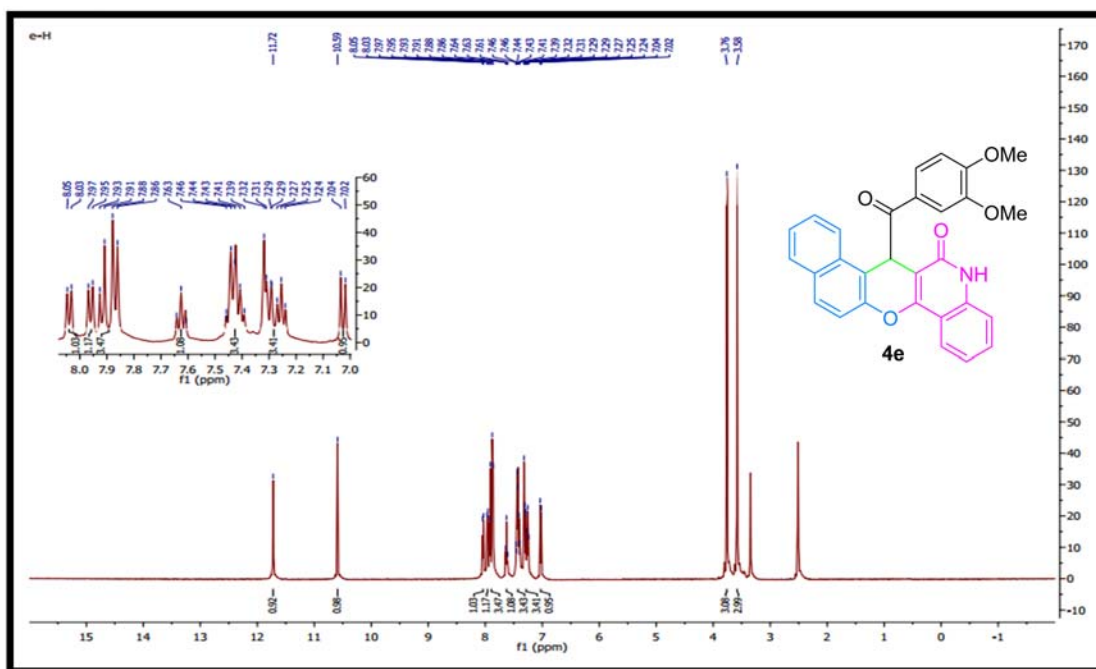


Figure S16: IR spectrum of compound 4d.

Figure S17: ¹H NMR spectrum of compound 4e.

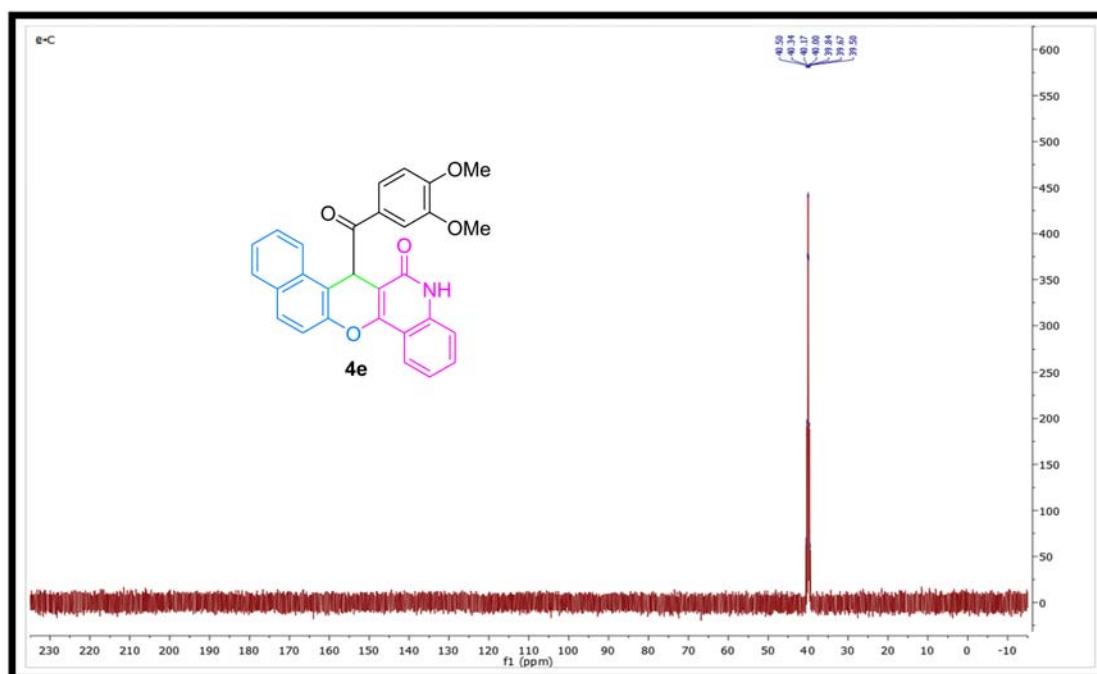


Figure S18: ^{13}C NMR spectrum of compound **4e**.

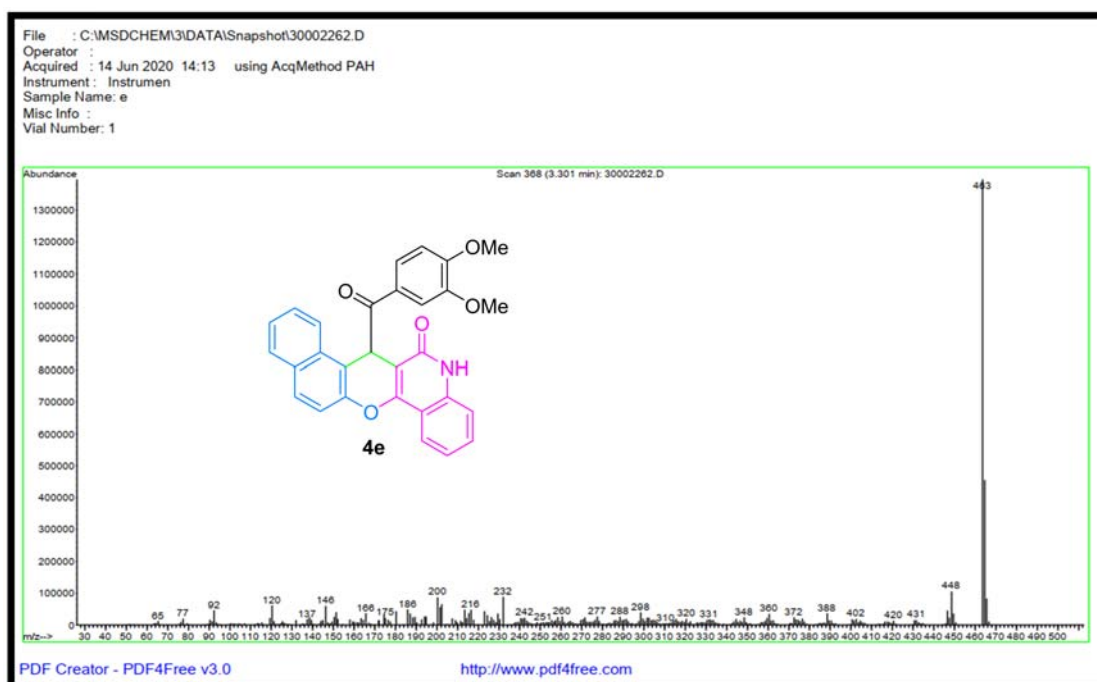


Figure S19: Mass spectrum of compound **4e**.

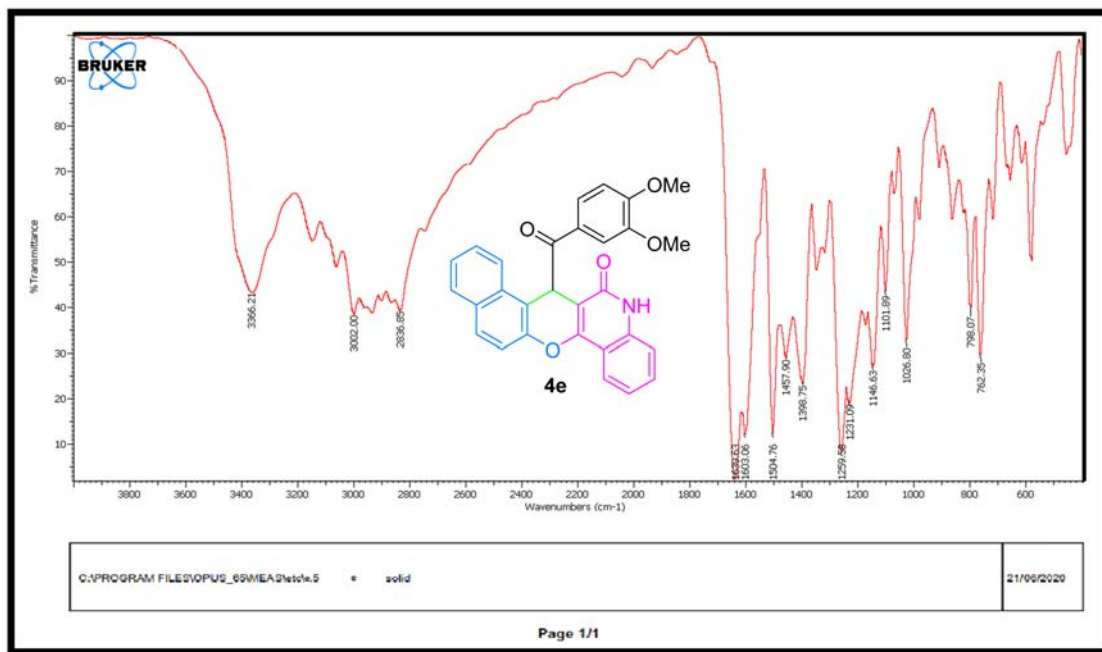
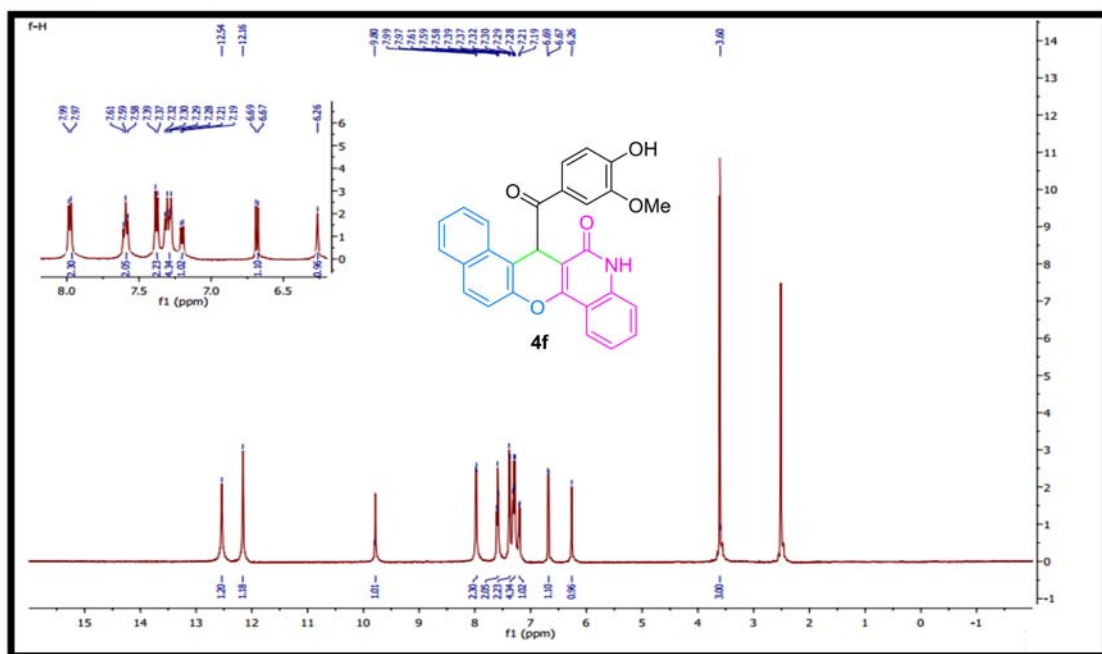
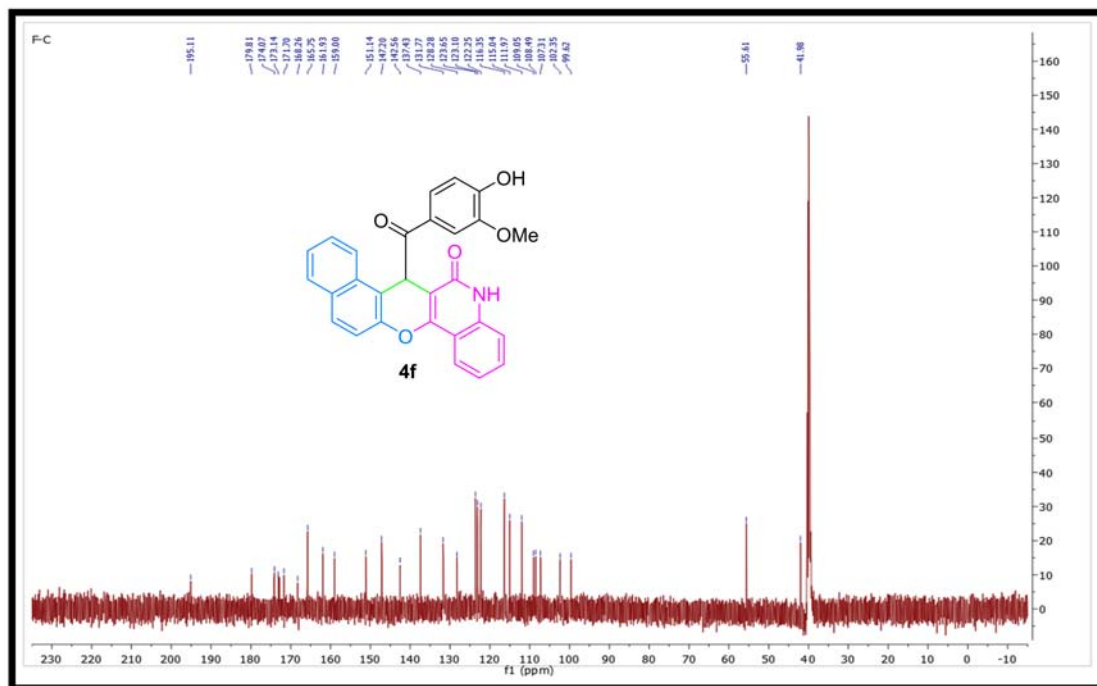
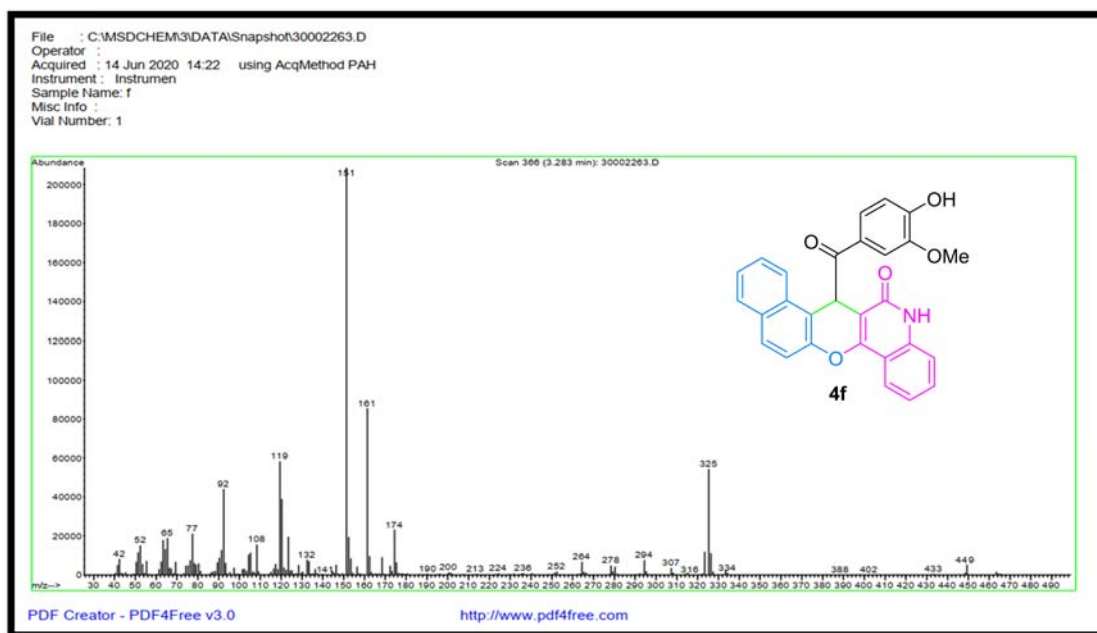


Figure S20: IR spectrum of compound 4e.

Figure S21: ¹H NMR spectrum of compound 4f.

Figure S22: ^{13}C NMR spectrum of compound **4f**.Figure S23: Mass spectrum of compound **4f**.

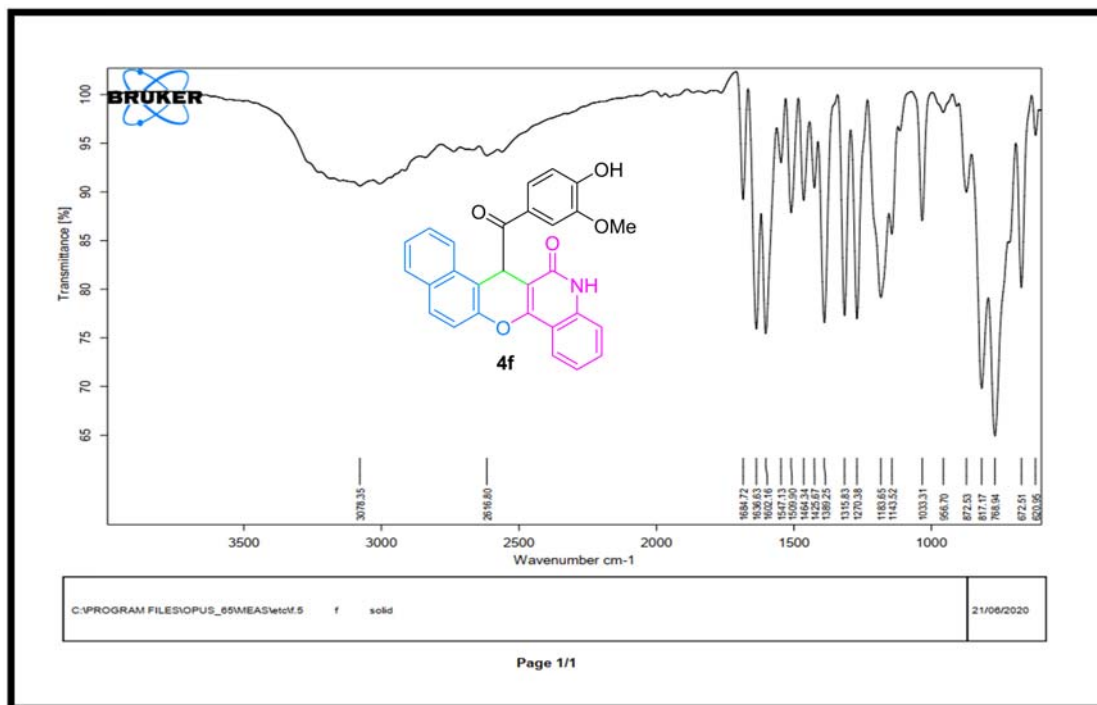
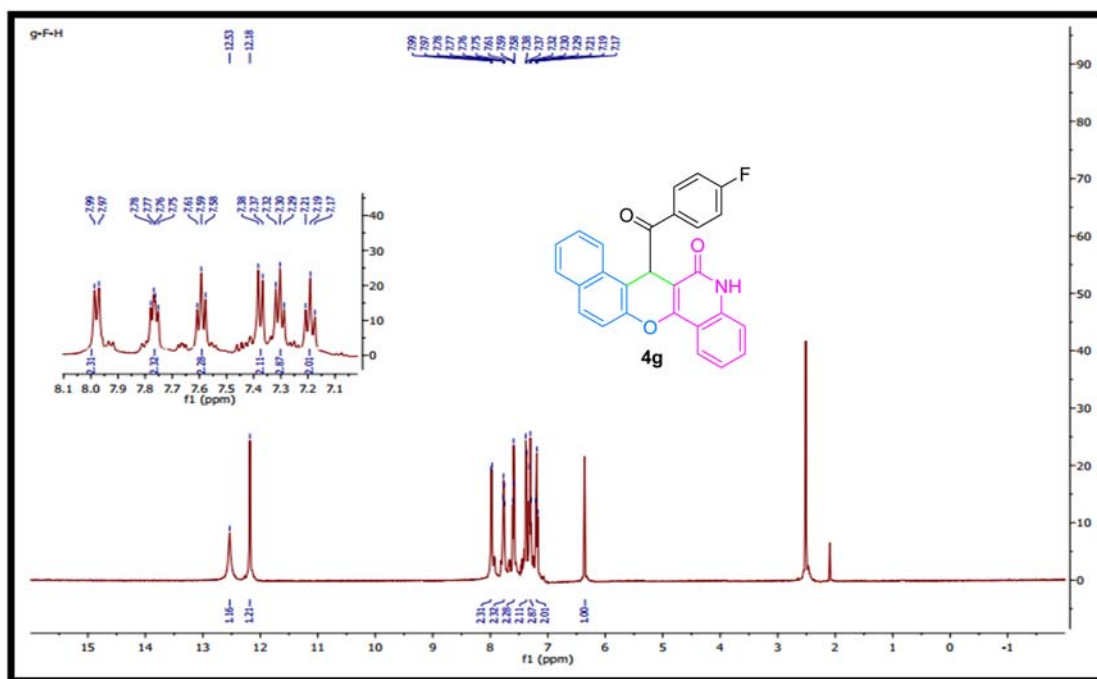
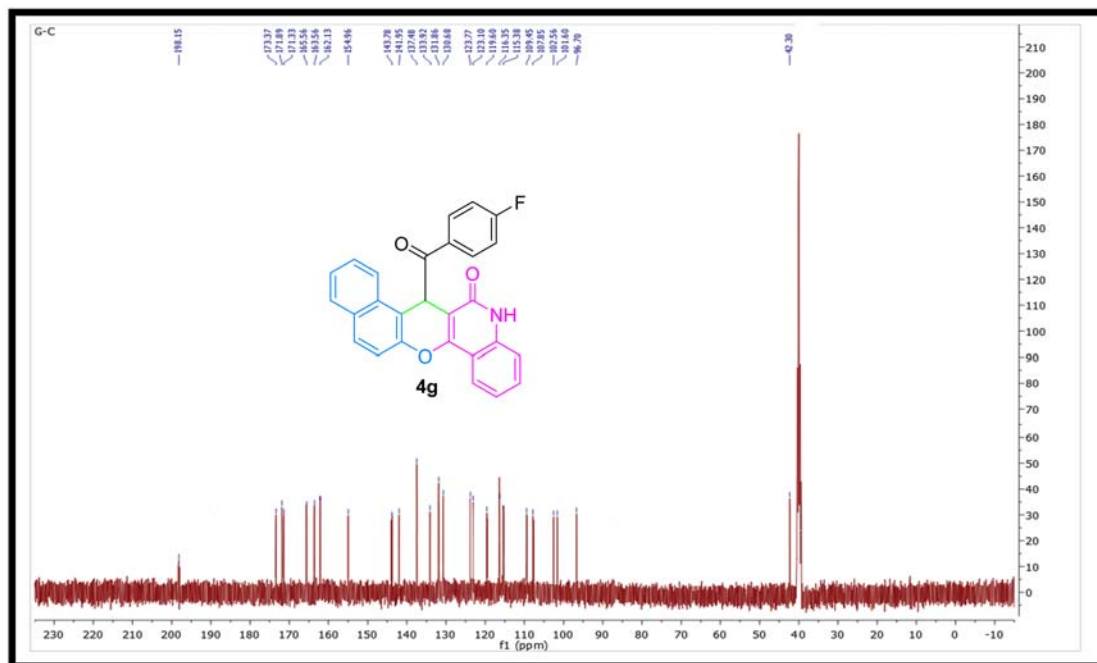
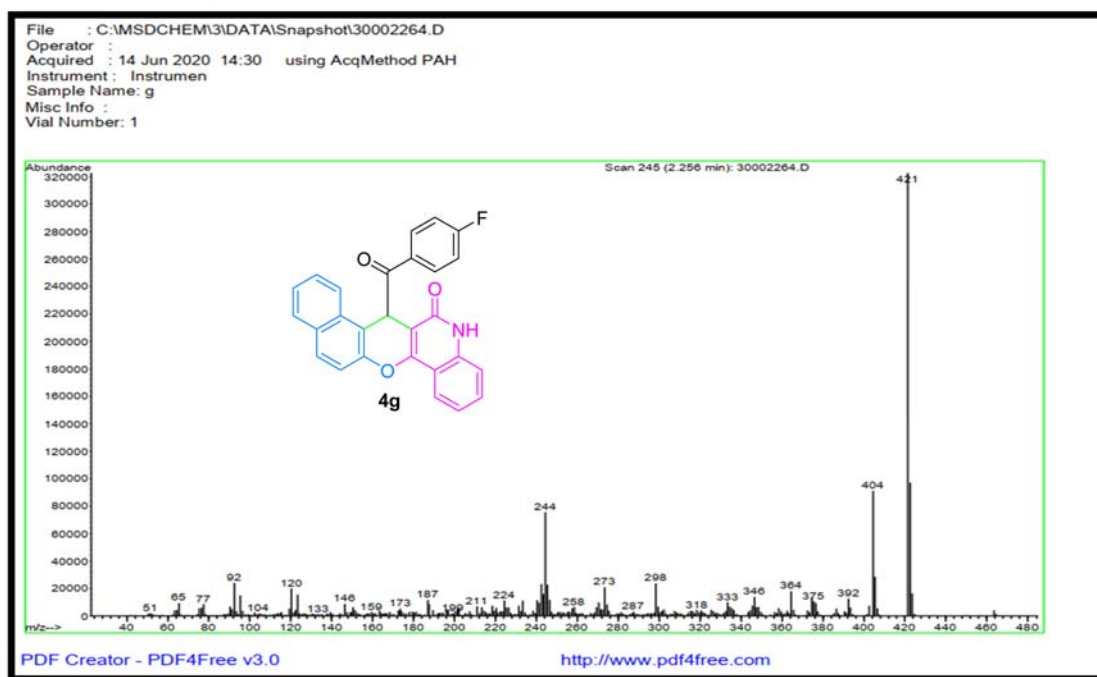
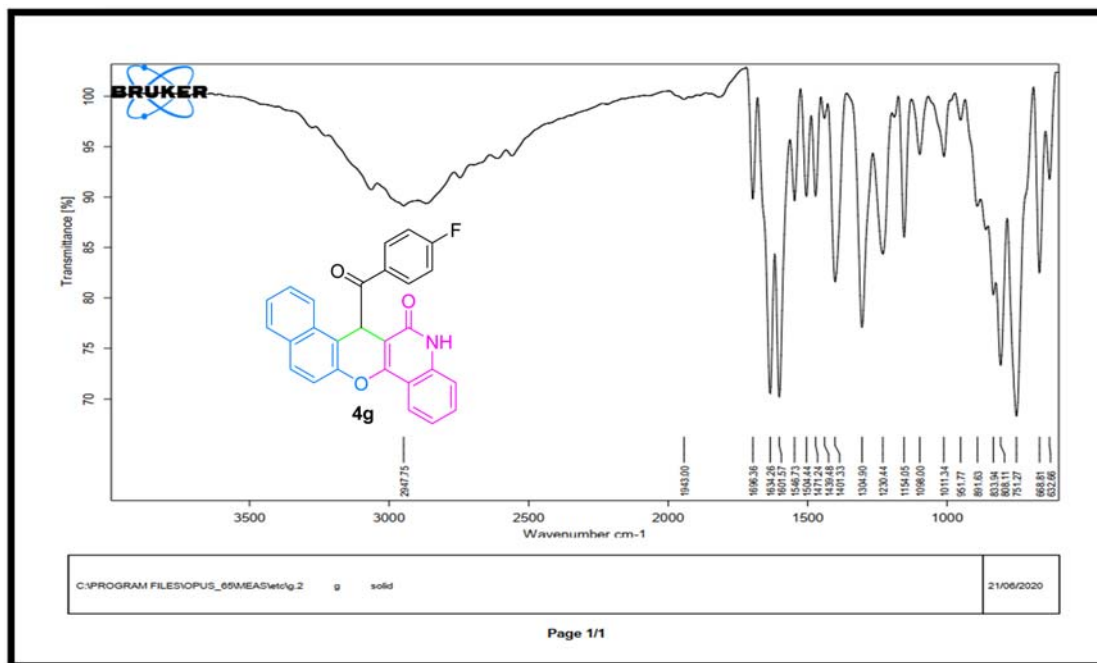
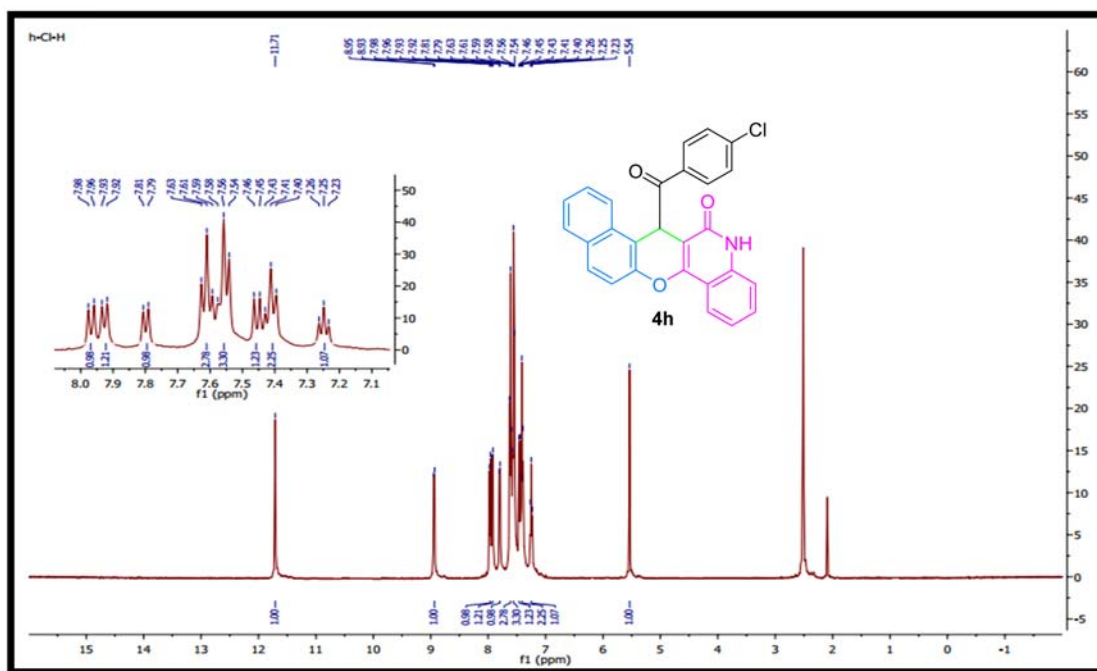


Figure S24: IR spectrum of compound 4f.



Figure S26: ^{13}C NMR spectrum of compound **4g**.Figure S27: Mass spectrum of compound **4g**.

Figure S28: IR spectrum of compound **4g**.Figure S29: ¹H NMR spectrum of compound **4h**.

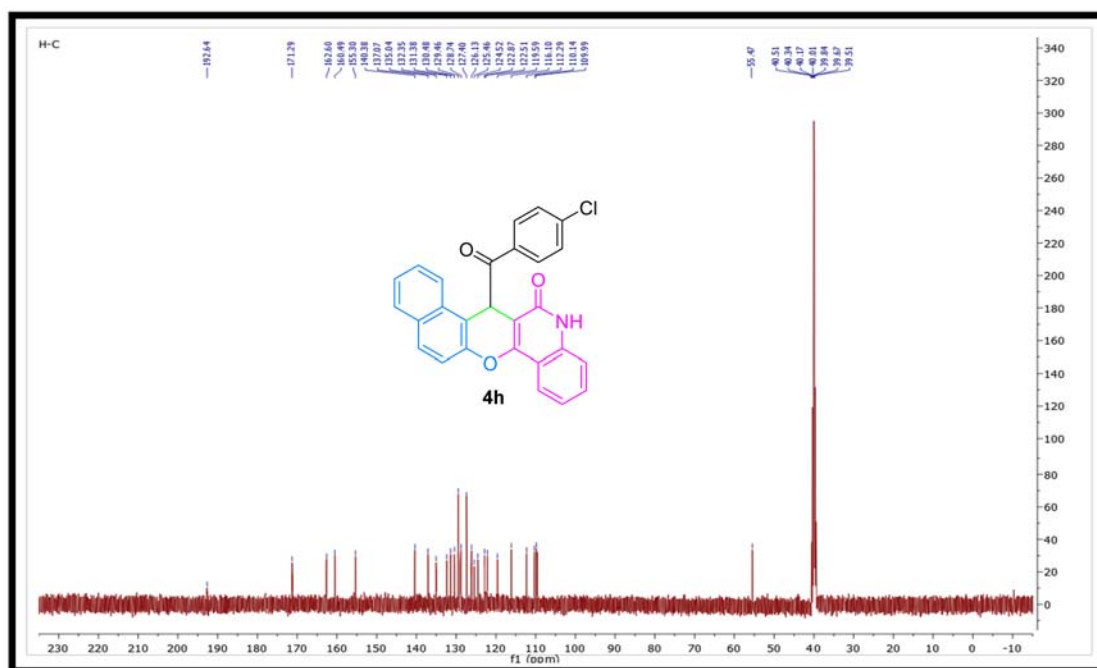
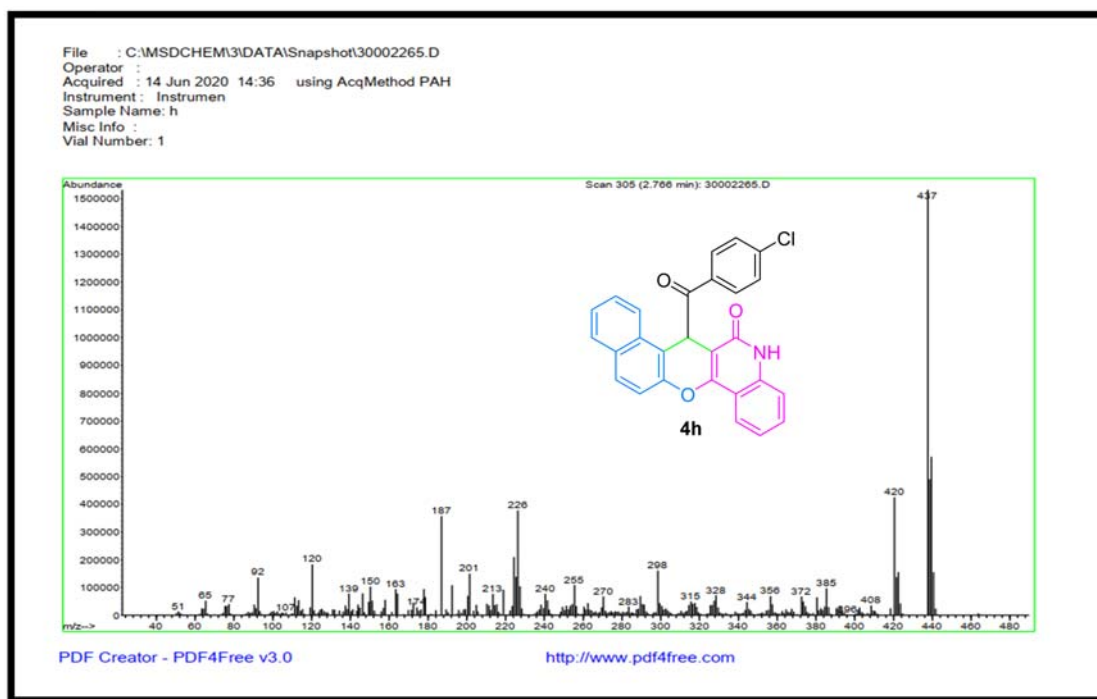
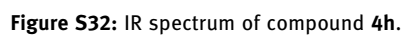
Figure S30: ^{13}C NMR spectrum of compound 4h.

Figure S31: Mass spectrum of compound 4h.



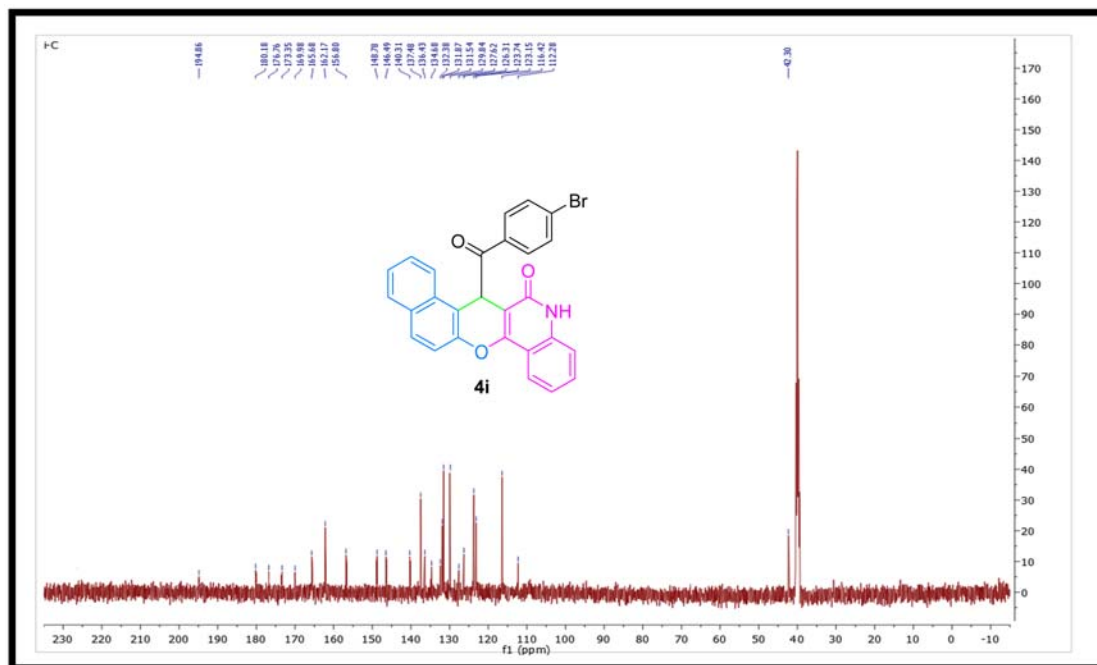


Figure S34: ^{13}C NMR spectrum of compound **4i**.

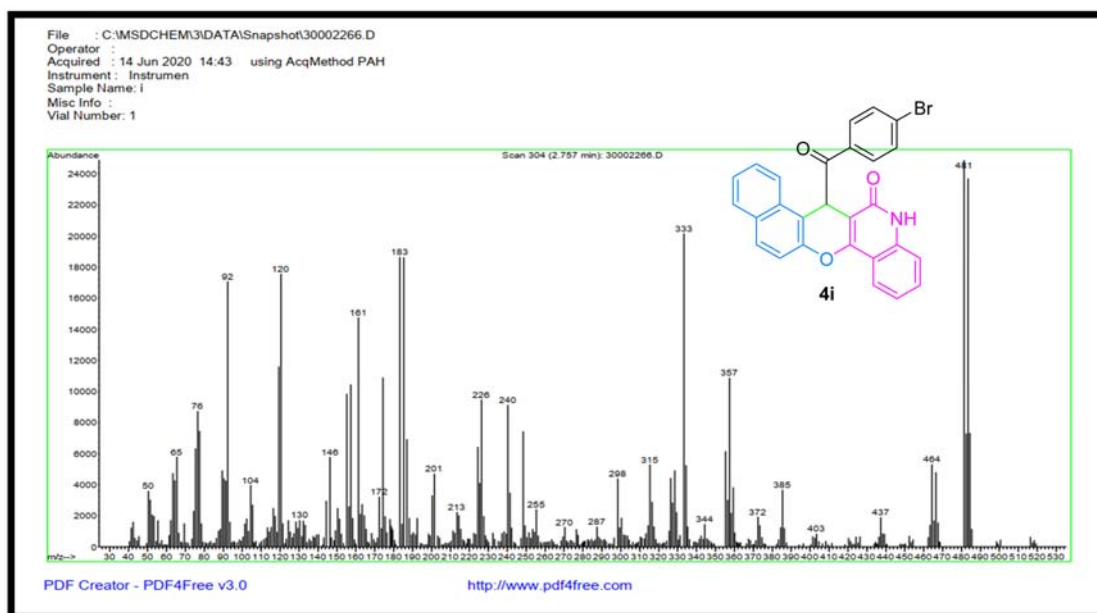


Figure S35: Mass spectrum of compound **4i**.

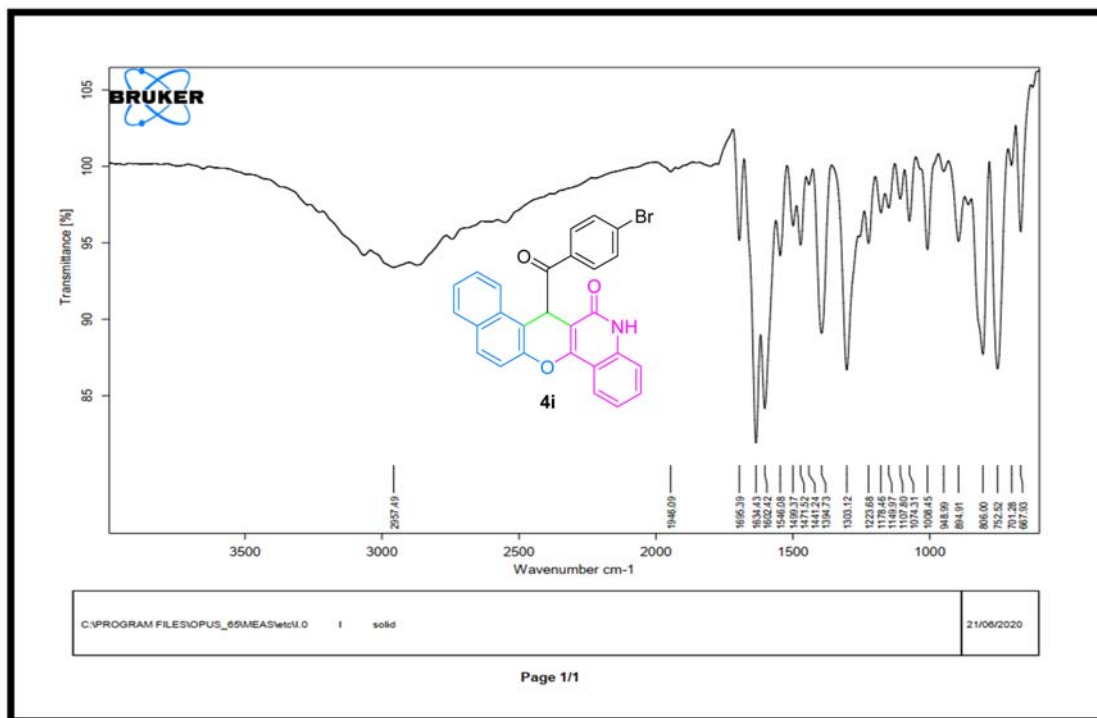
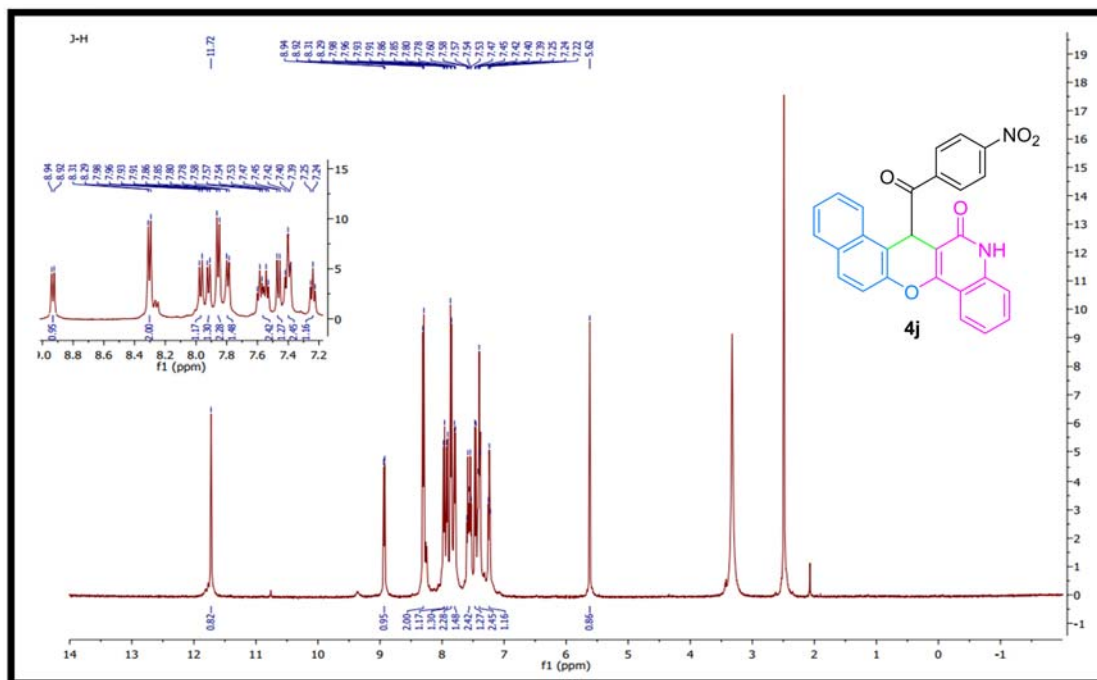


Figure S36: IR spectrum of compound 4i.

Figure S37: ¹H NMR spectrum of compound 4j.

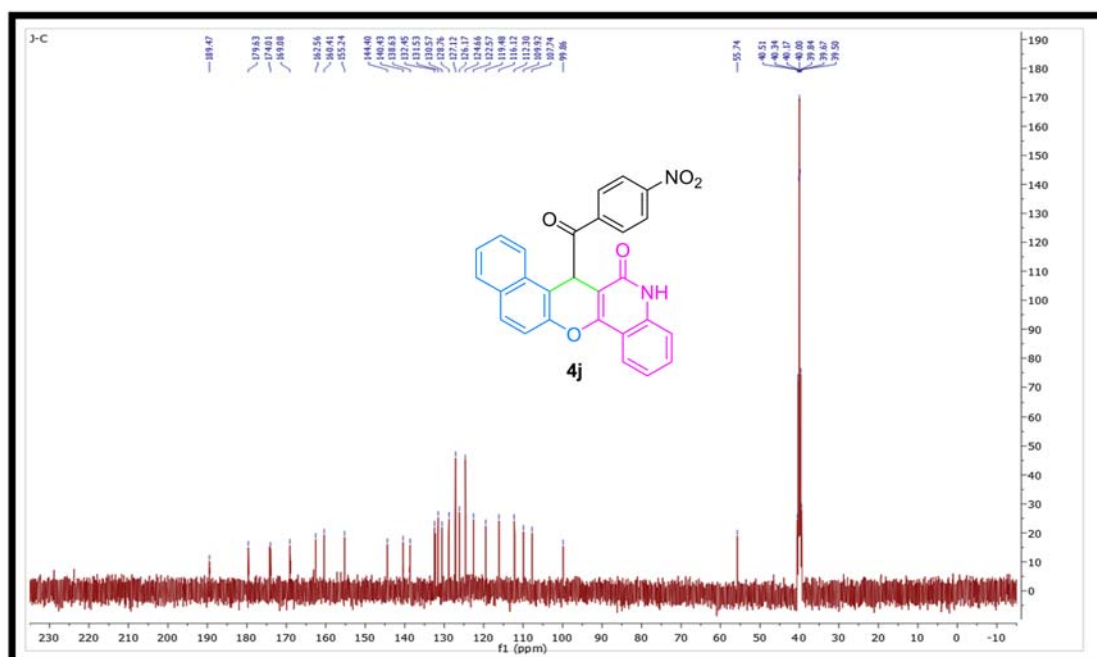


Figure S38: ^{13}C NMR spectrum of compound **4j**.

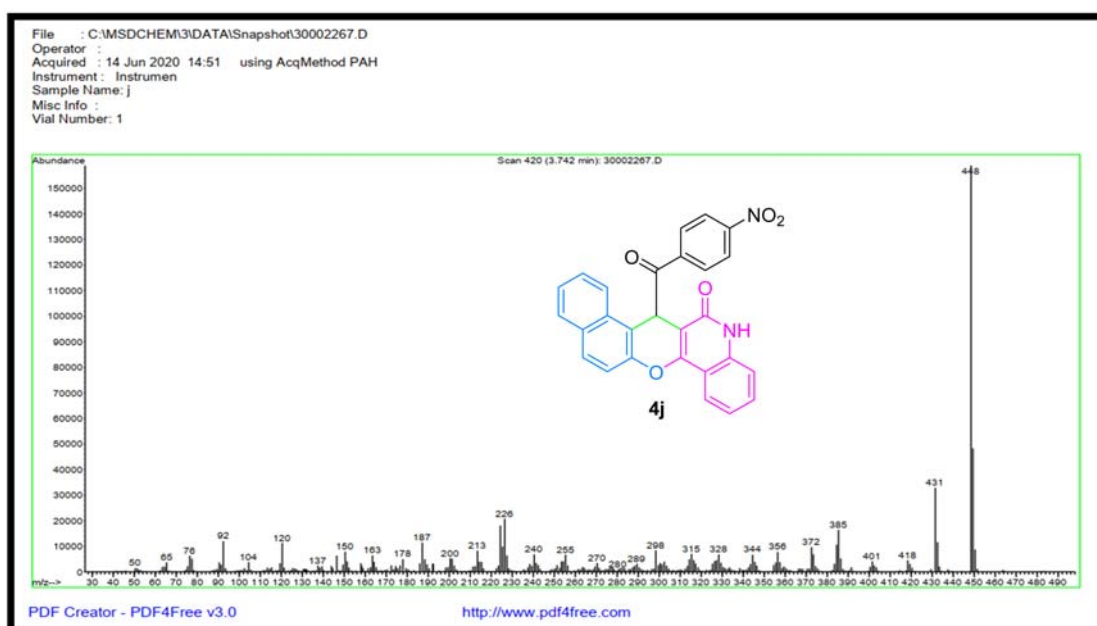


Figure S39: Mass spectrum of compound **4j**.

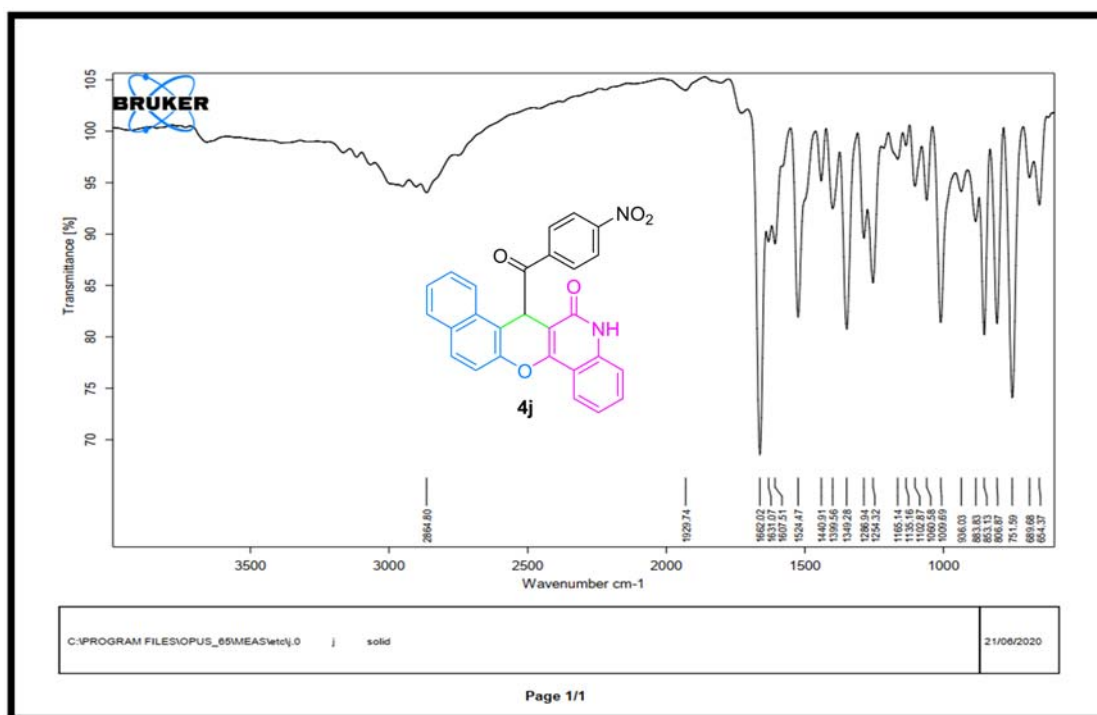


Figure S40: IR spectrum of compound 4j.