

SPECTRAL ANALYSIS

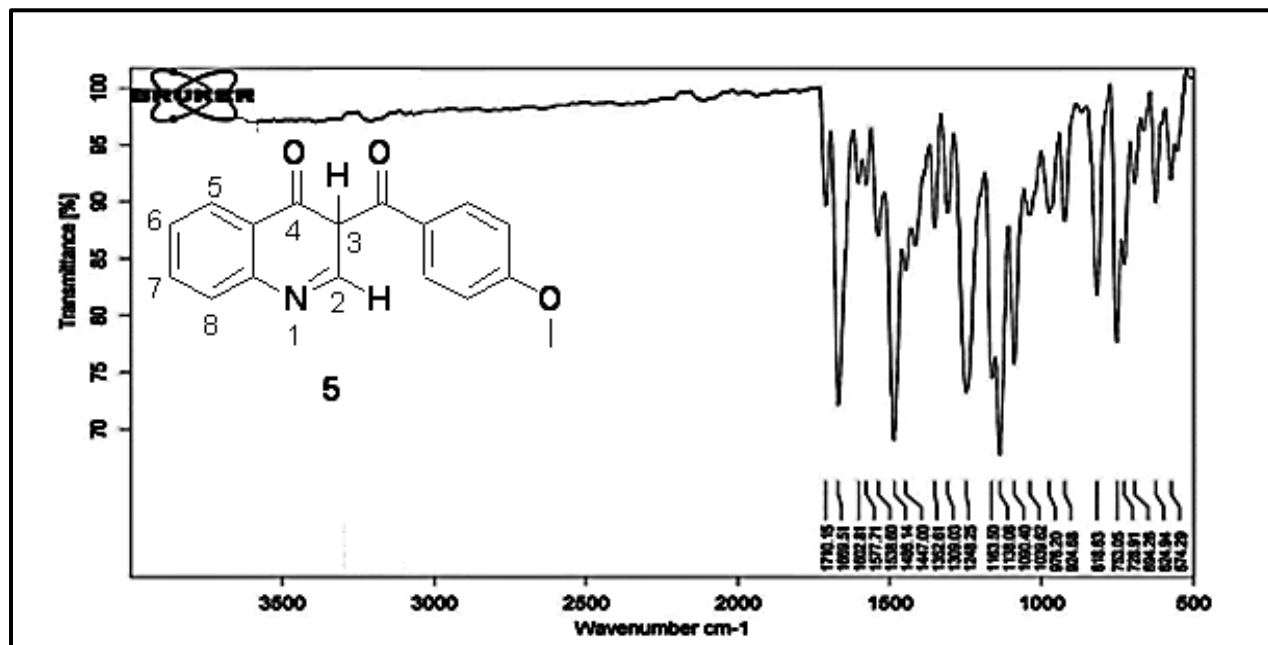


Fig. 1: IR Spectrum of compound 5

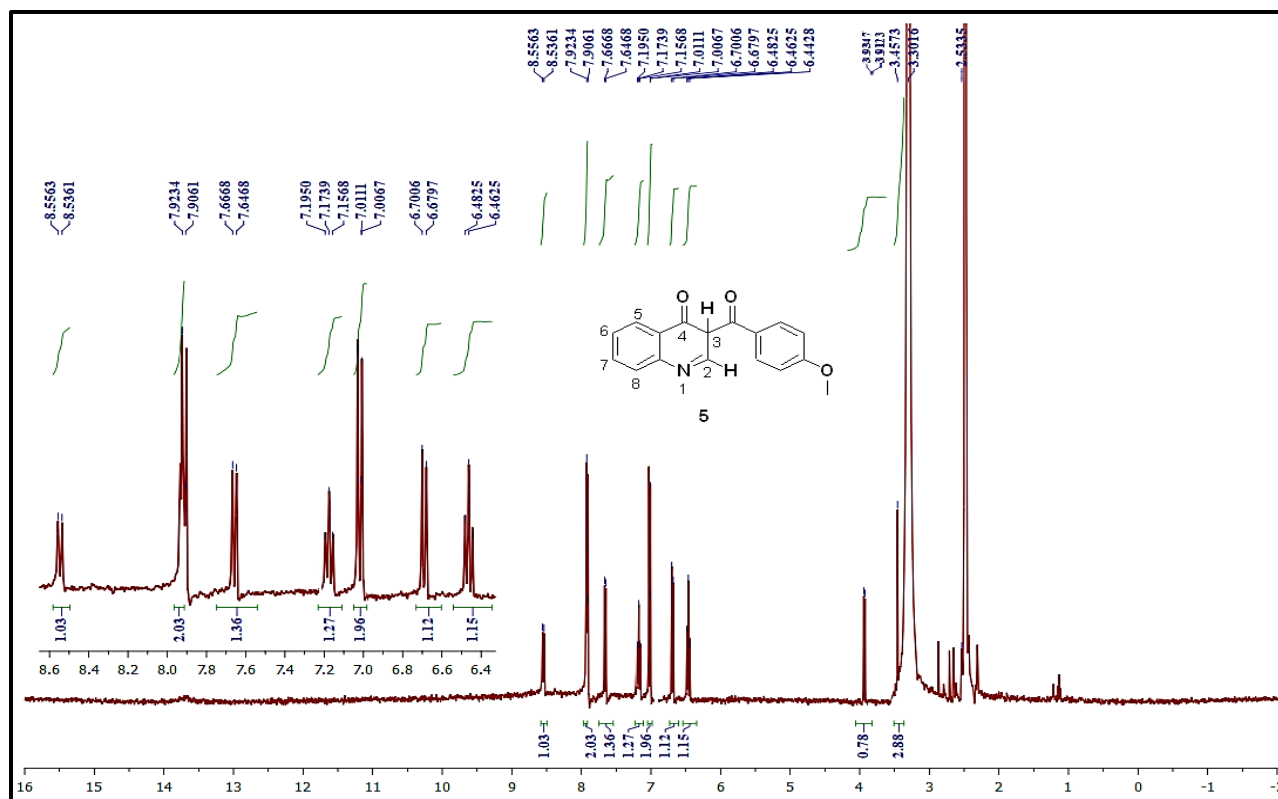


Fig. 2: ¹H-NMR Spectrum of compound 5

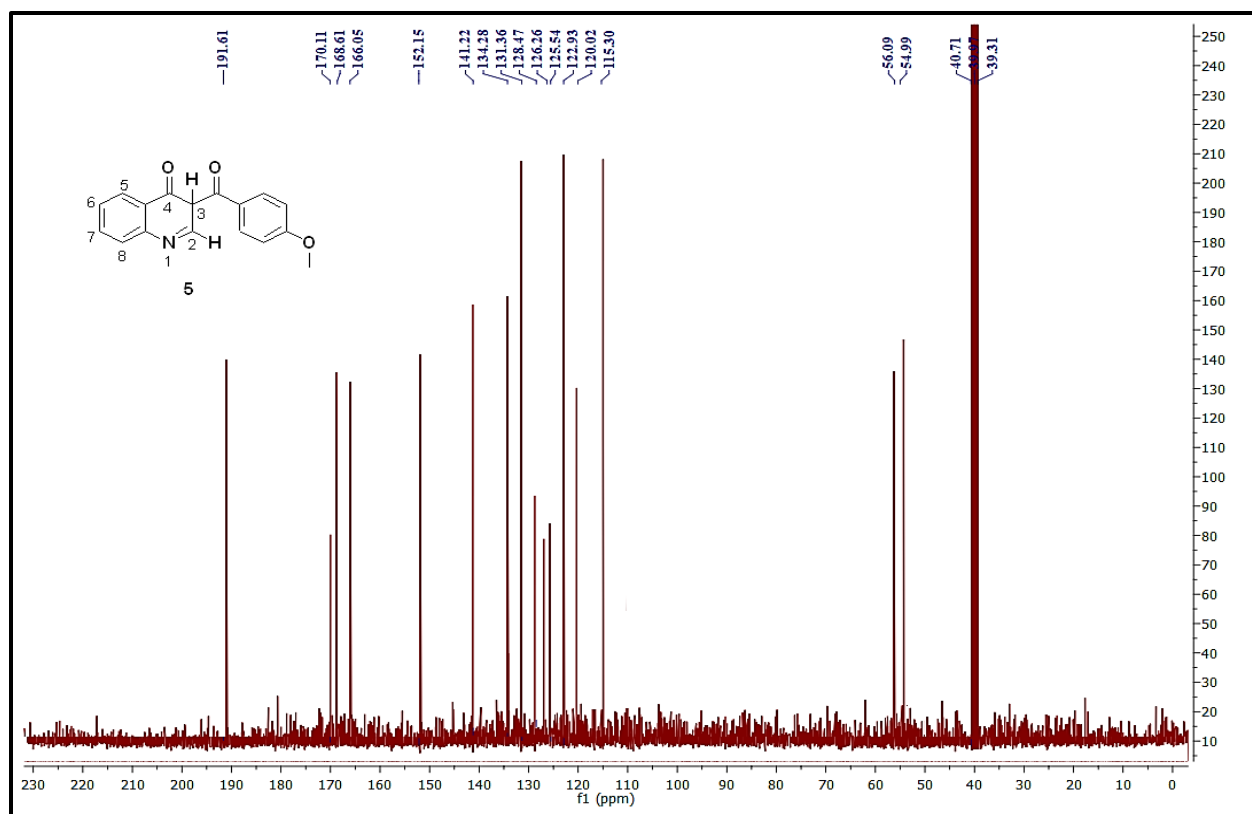


Fig. 3: ^{13}C -NMR Spectrum of compound 5

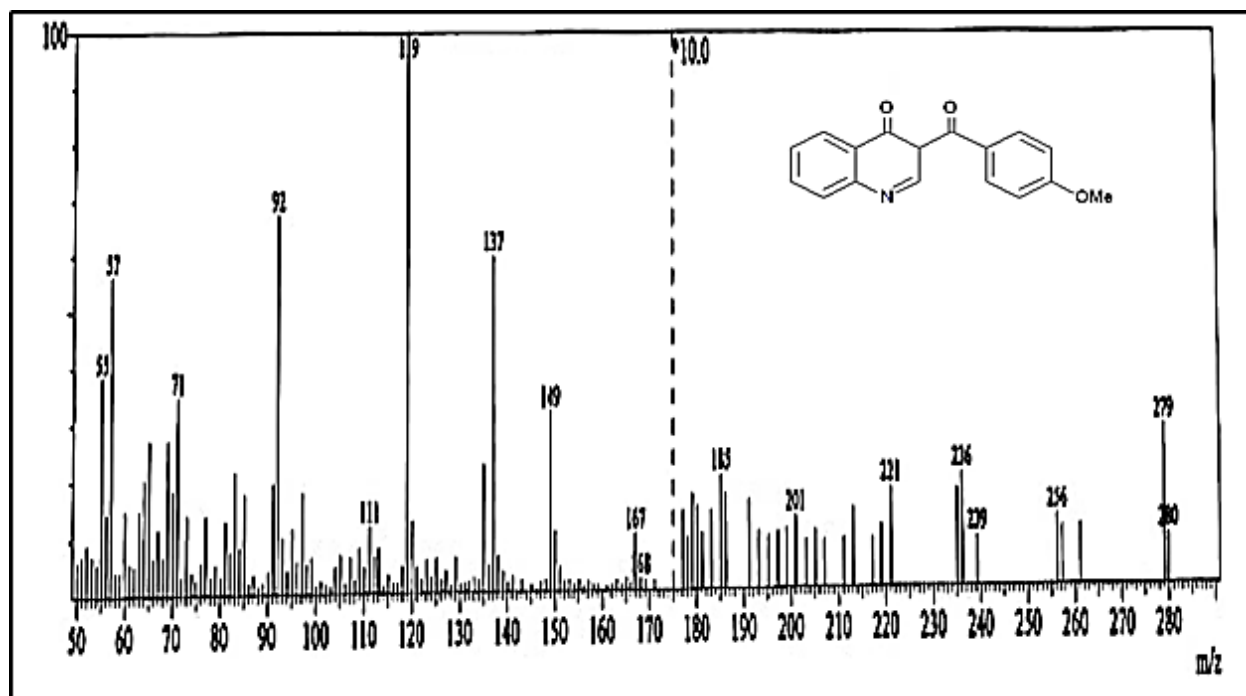


Fig. 4: Mass Spectrum of compound 5

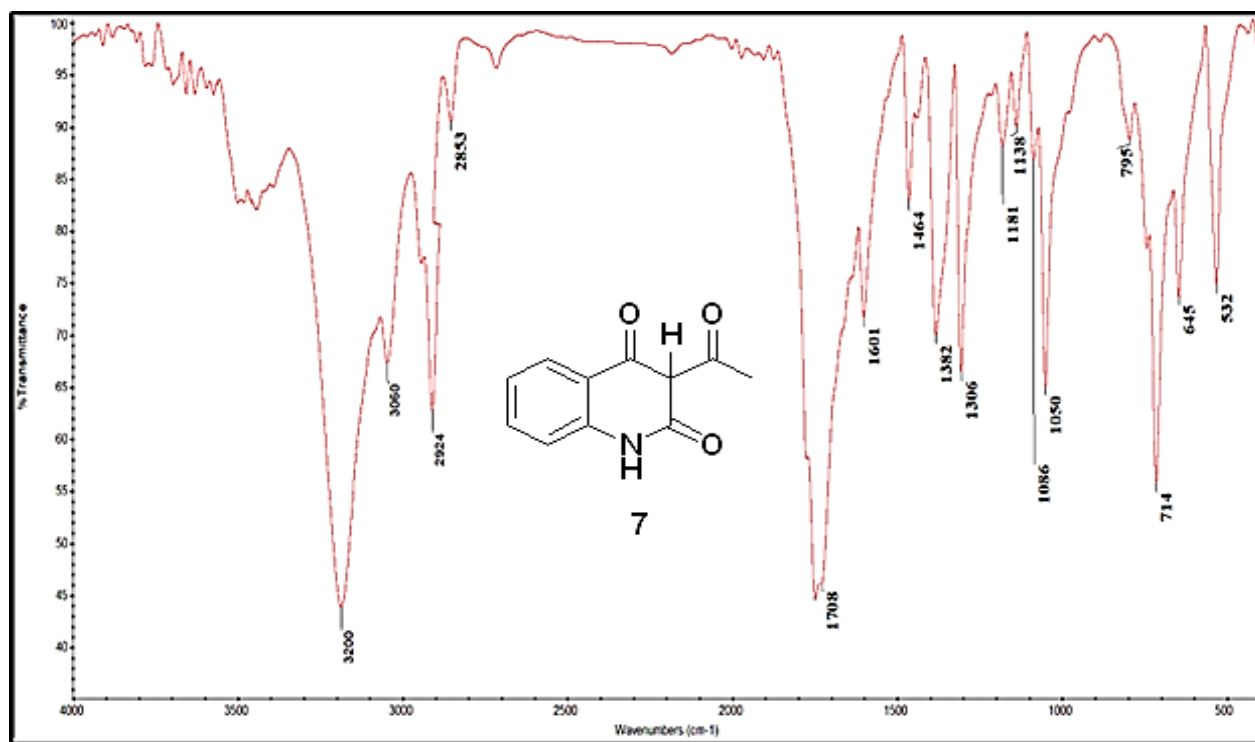


Fig. 5: IR Spectrum of compound 7

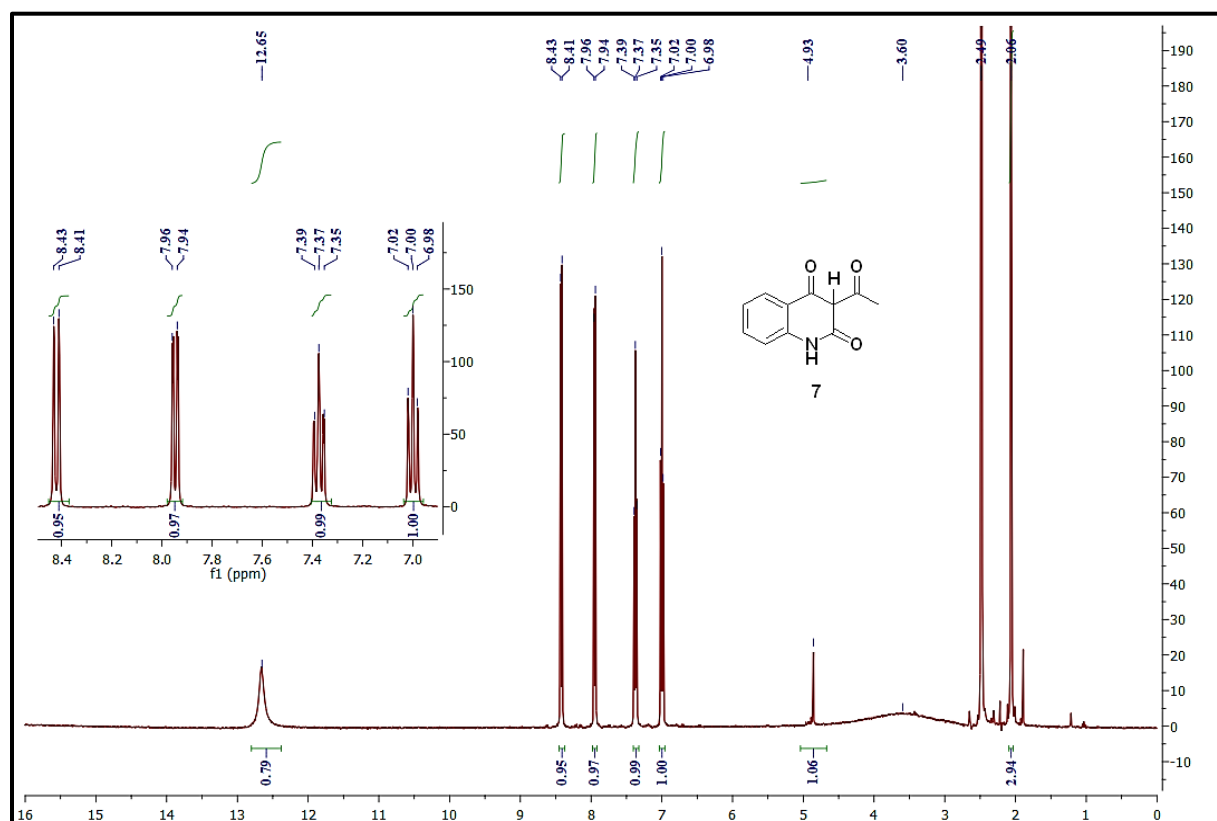


Fig. 6: ¹H-NMR Spectrum of compound 7

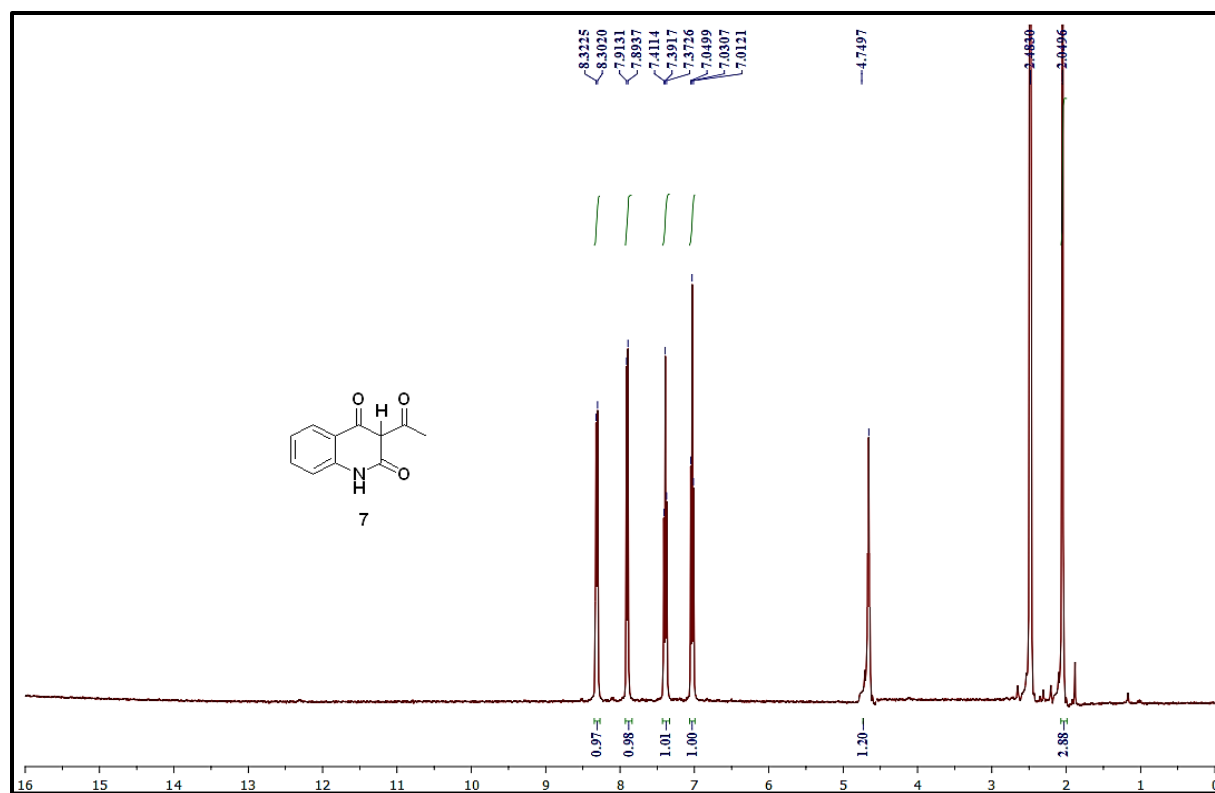


Fig. 7: ¹H-NMR Spectrum (D₂O) of compound 7

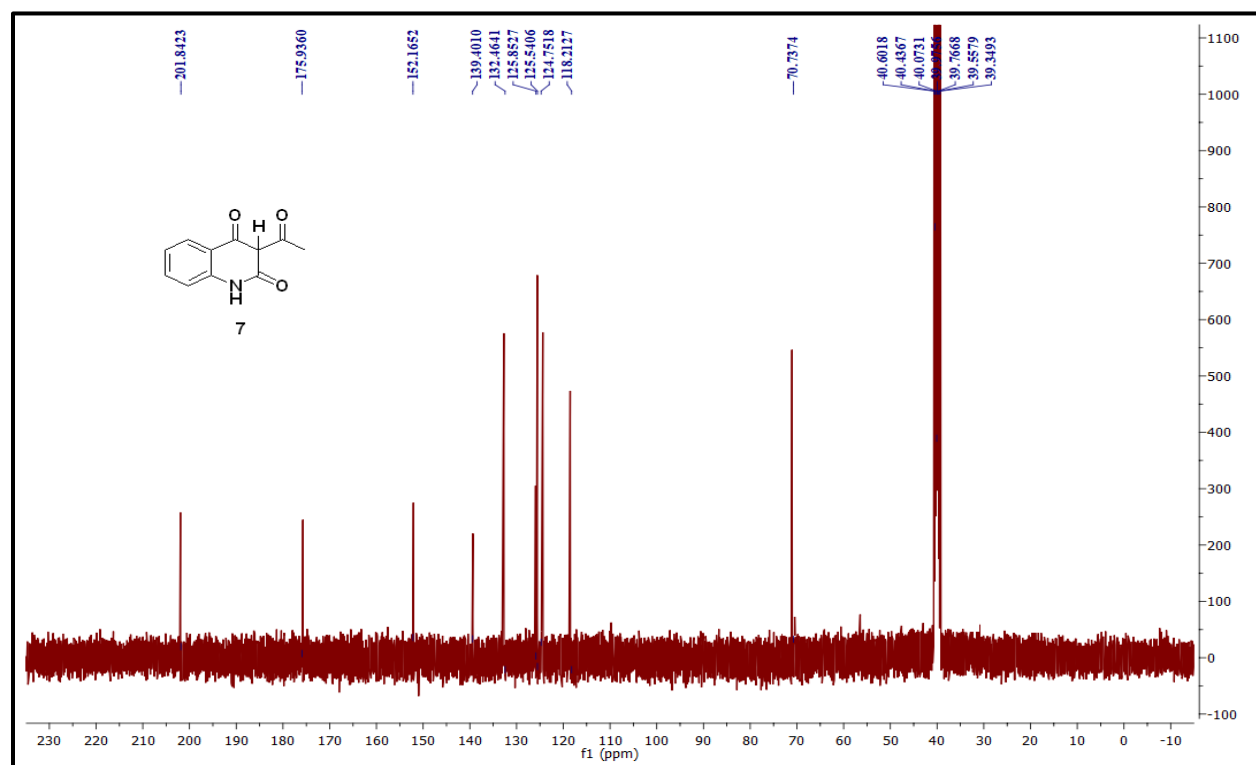


Fig. 8: ¹³C-NMR Spectrum of compound 7

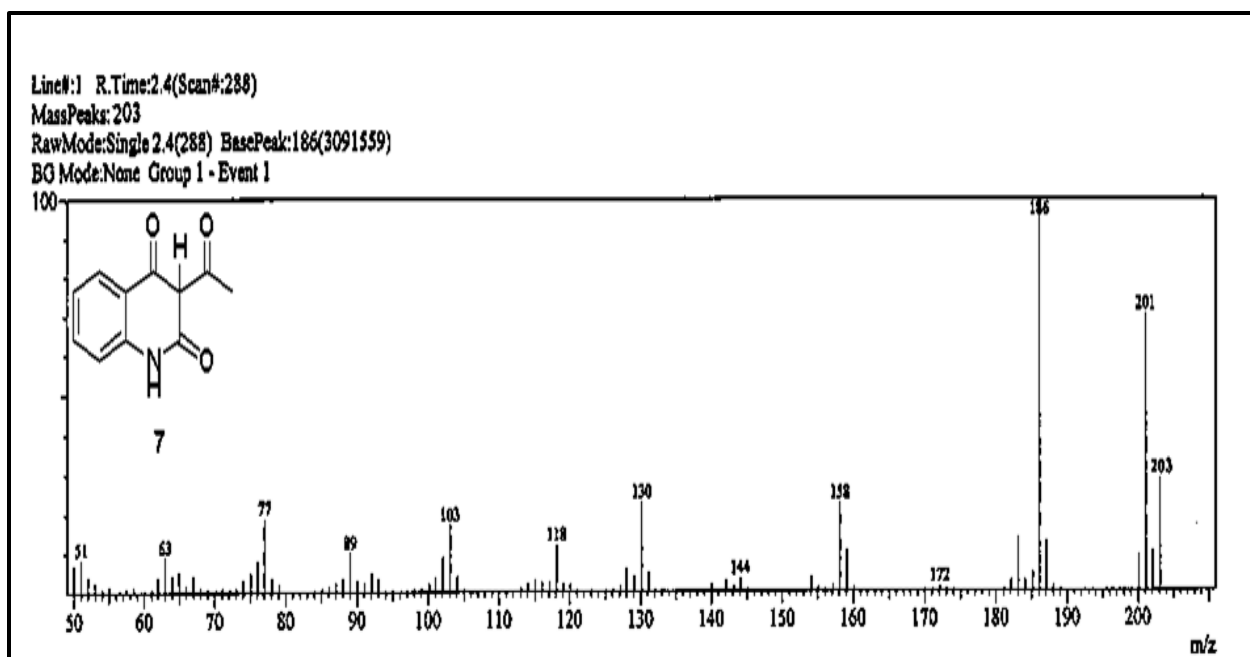


Fig. 9: Mass Spectrum of compound 7

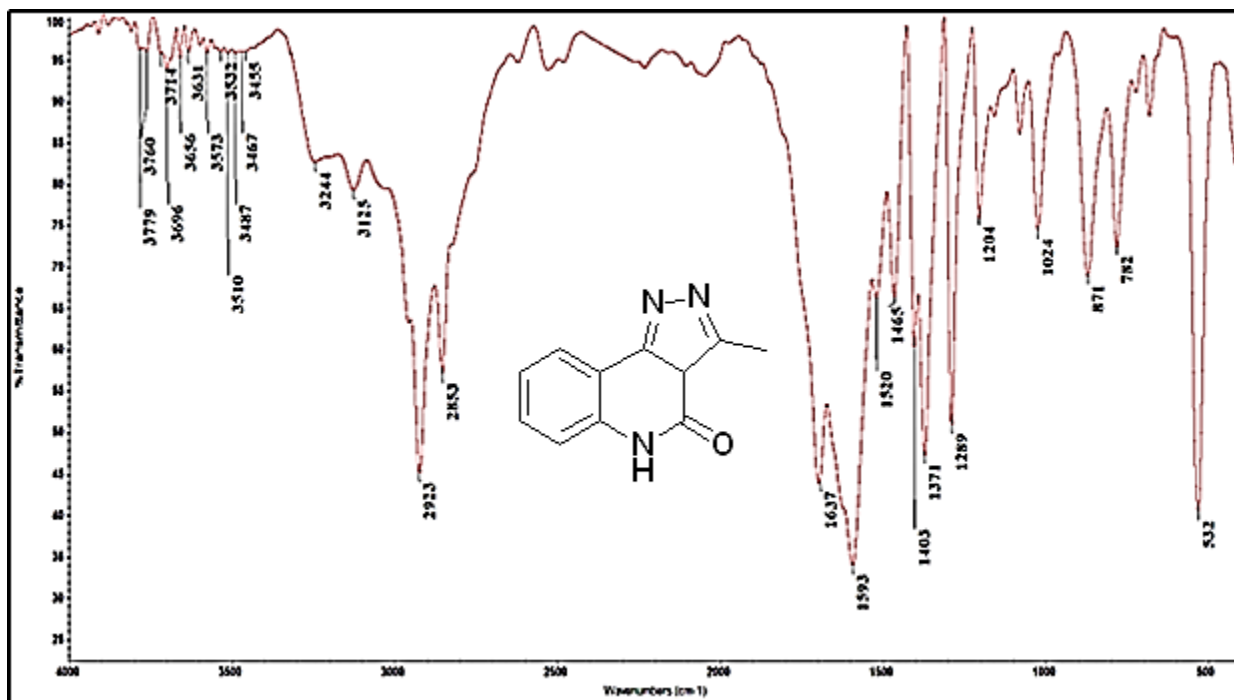


Fig. 10: IR Spectrum of compound 8

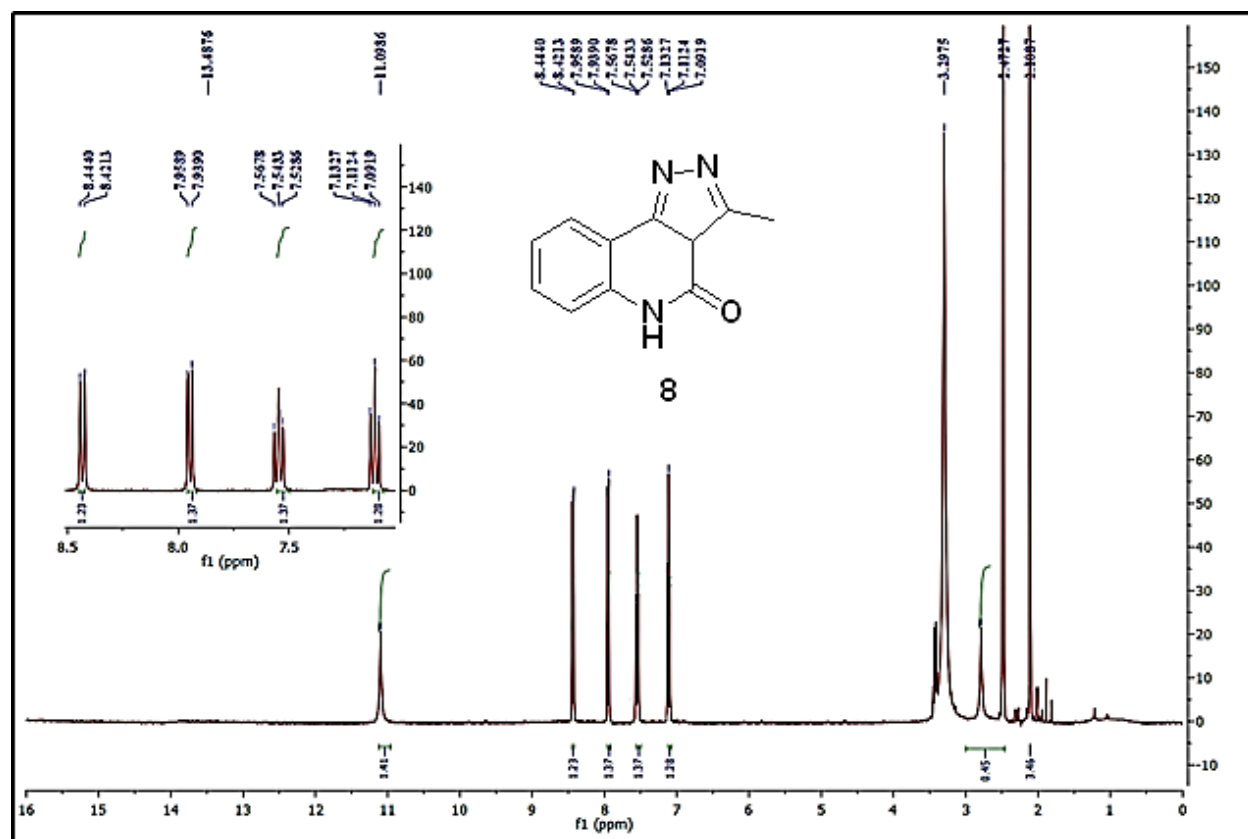


Fig. 11: ¹H-NMR Spectrum of compound 8

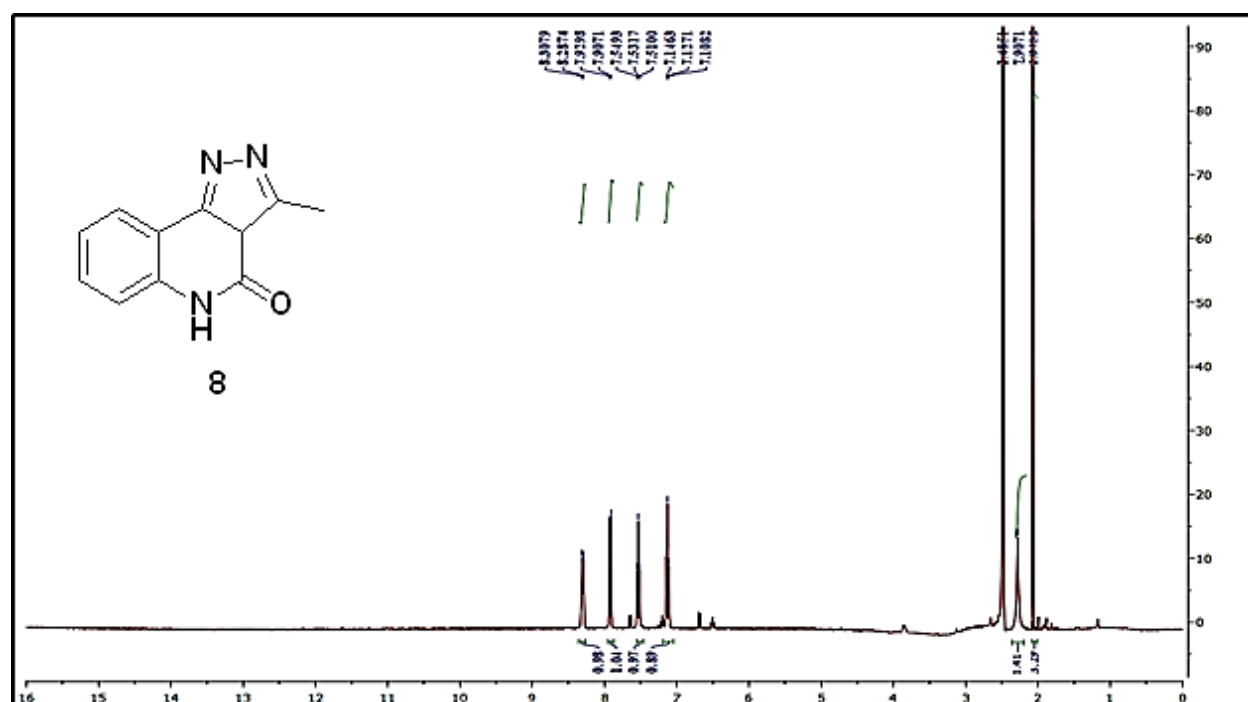


Fig. 12: ¹H-NMR Spectrum (D₂O) of compound 8

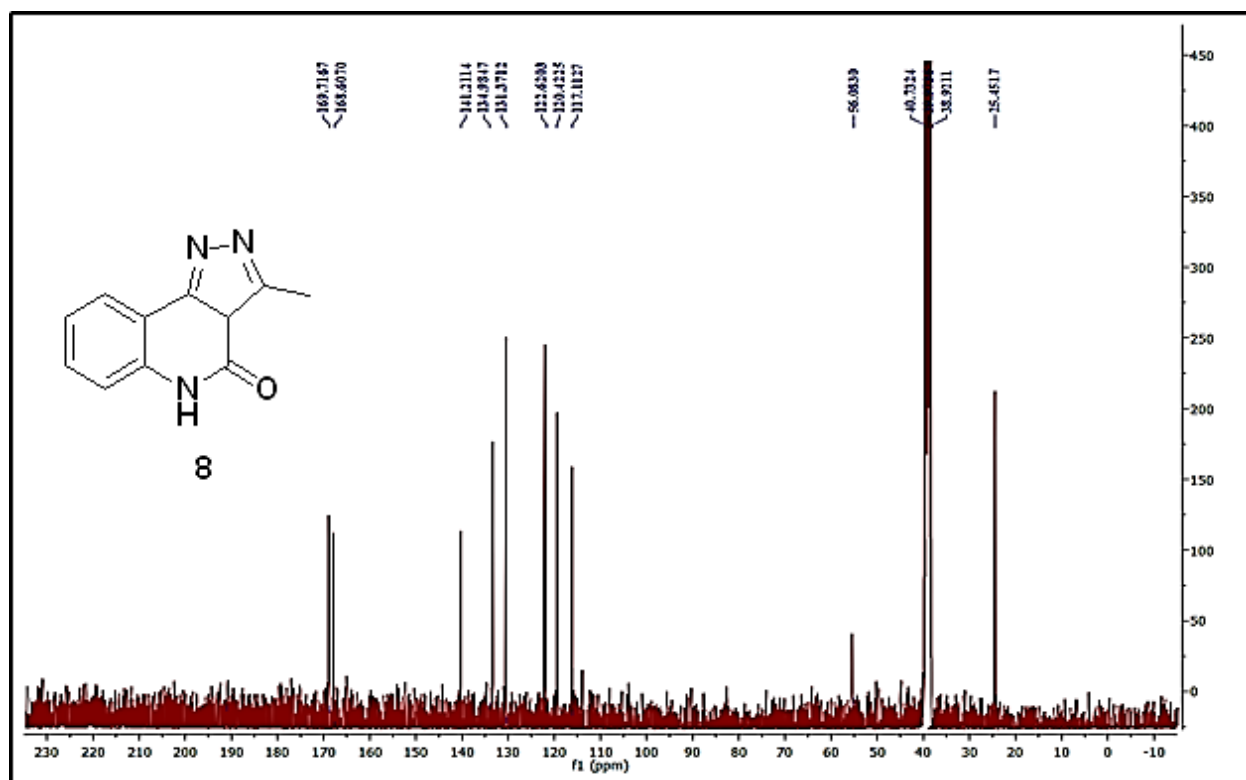


Fig. 13: ¹³C-NMR Spectrum of compound 8

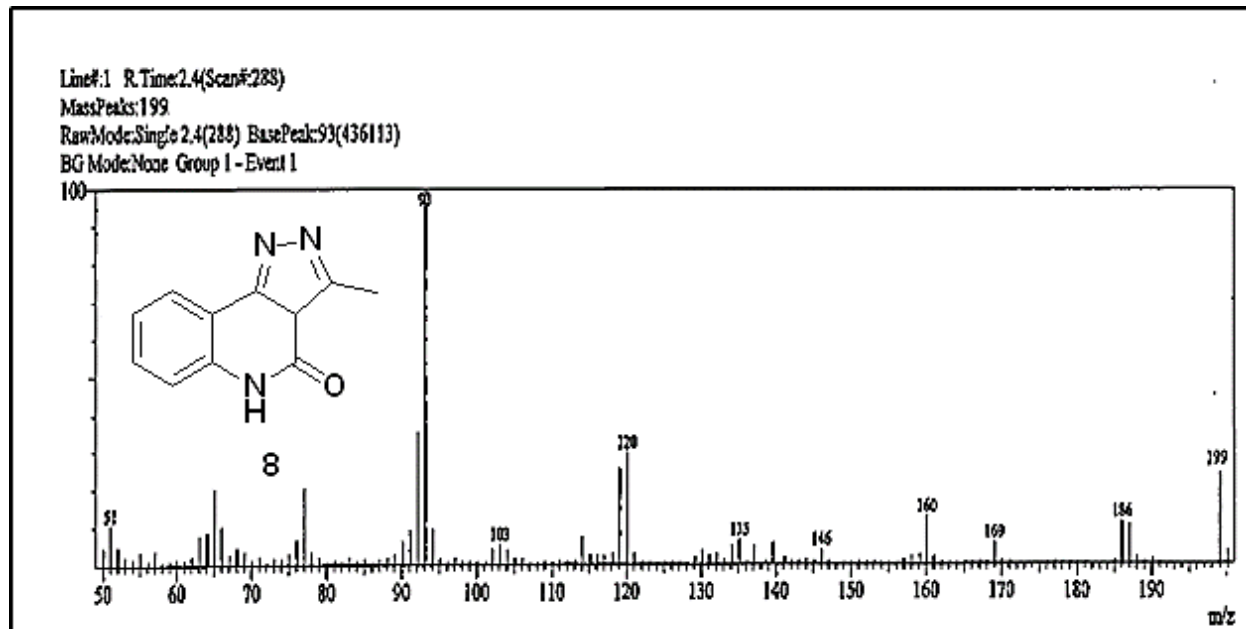


Fig. 14: Mass Spectrum of compound 8

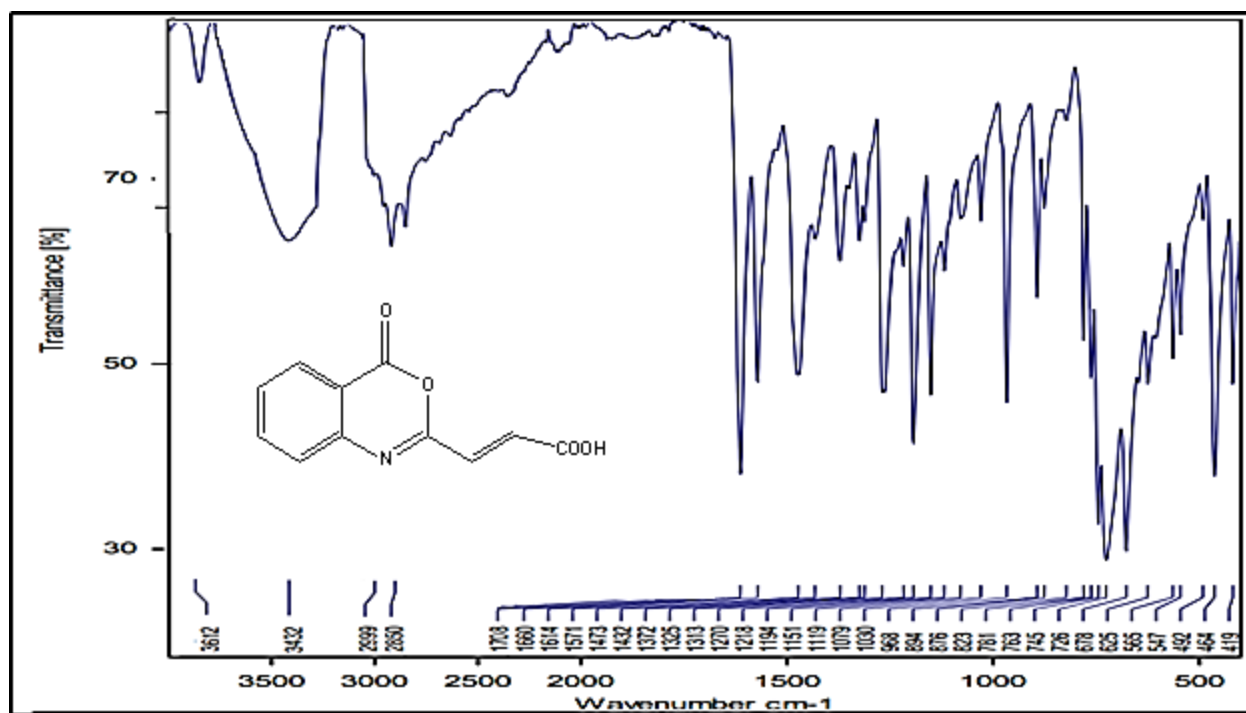


Fig. 15: IR Spectrum of compound 11

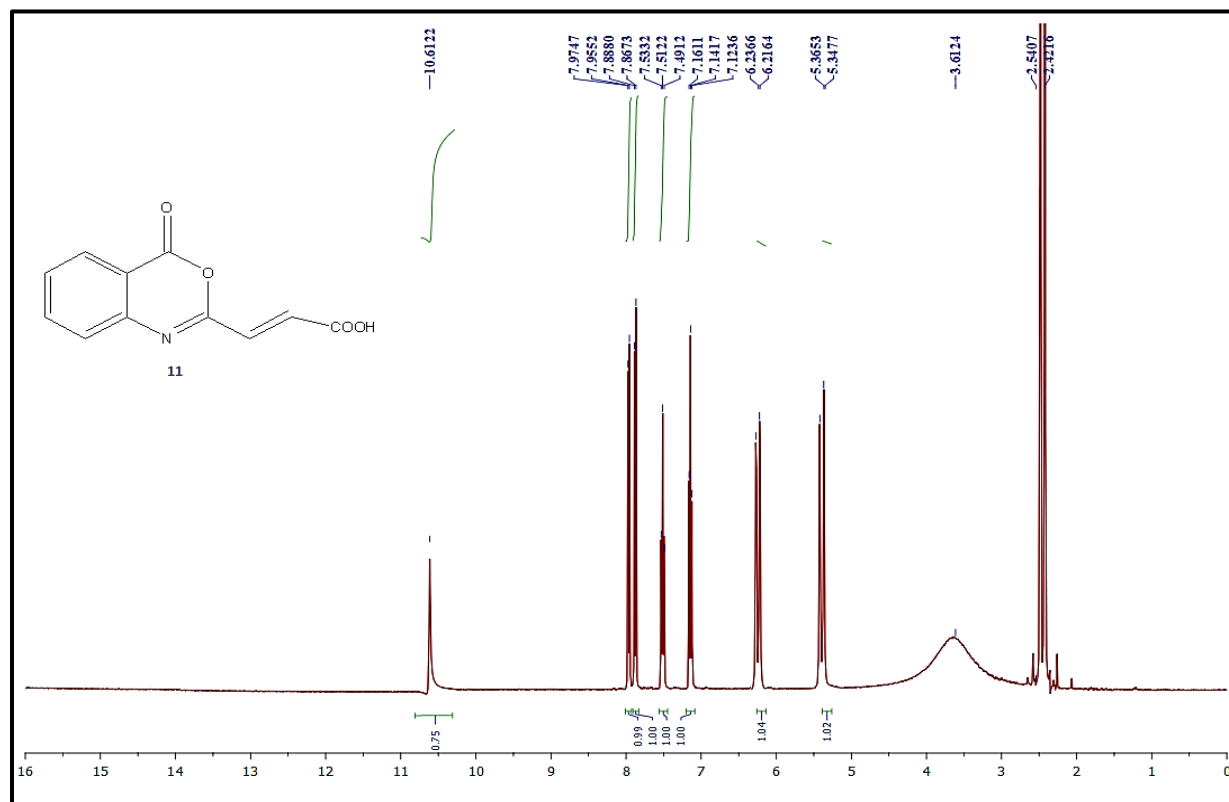


Fig. 16: ^1H -NMR Spectrum of compound 11

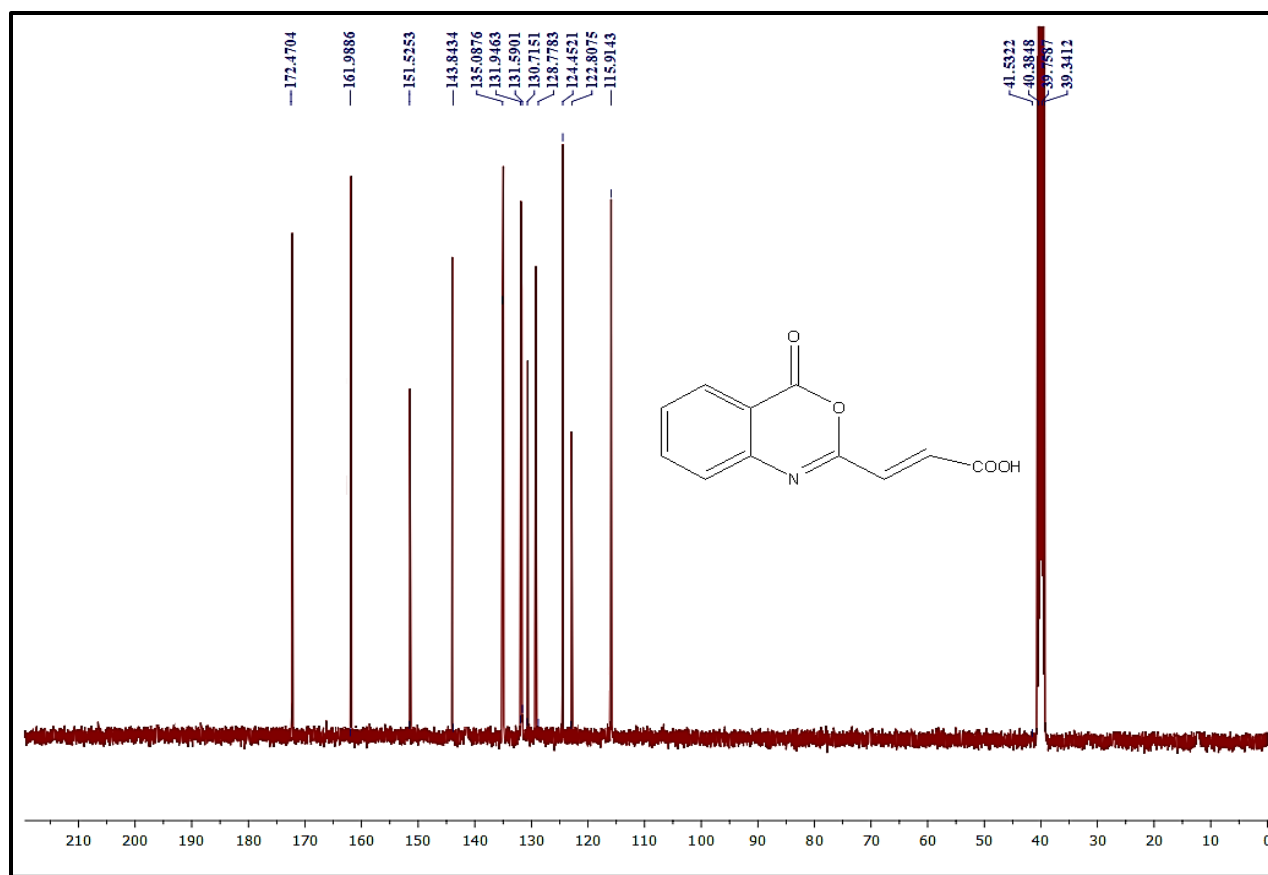


Fig. 17: ¹³C-NMR Spectrum of compound 11

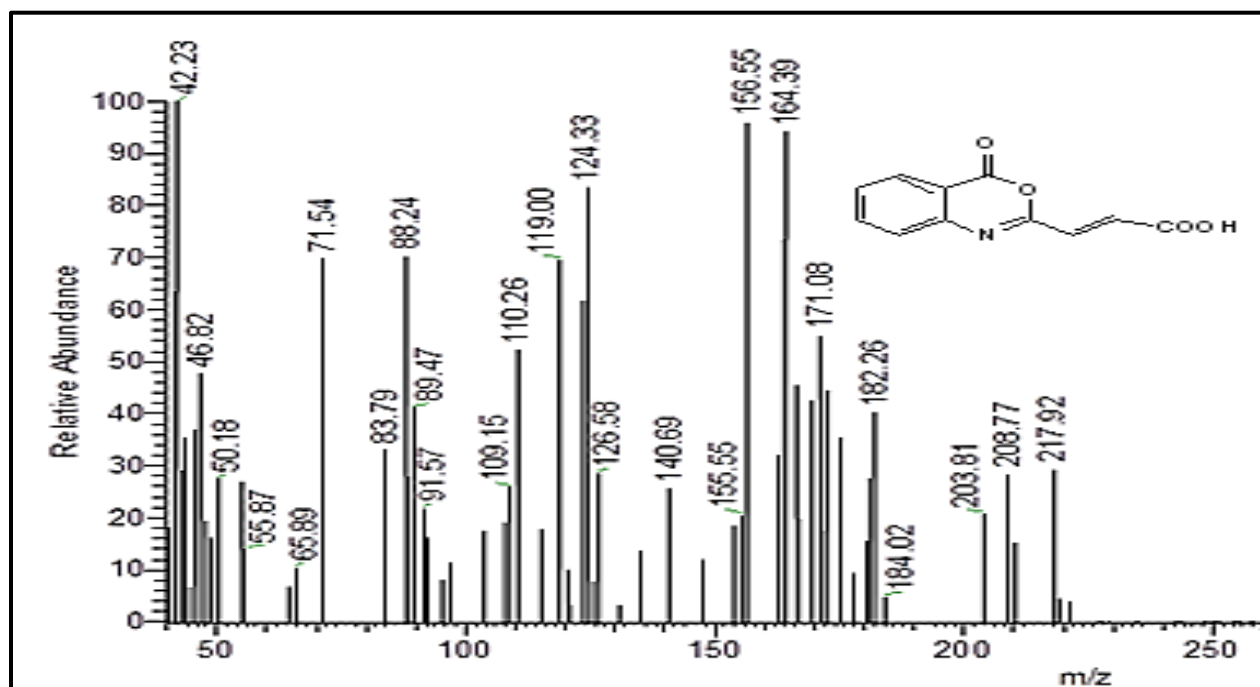


Fig. 18: Mass Spectrum of compound 11

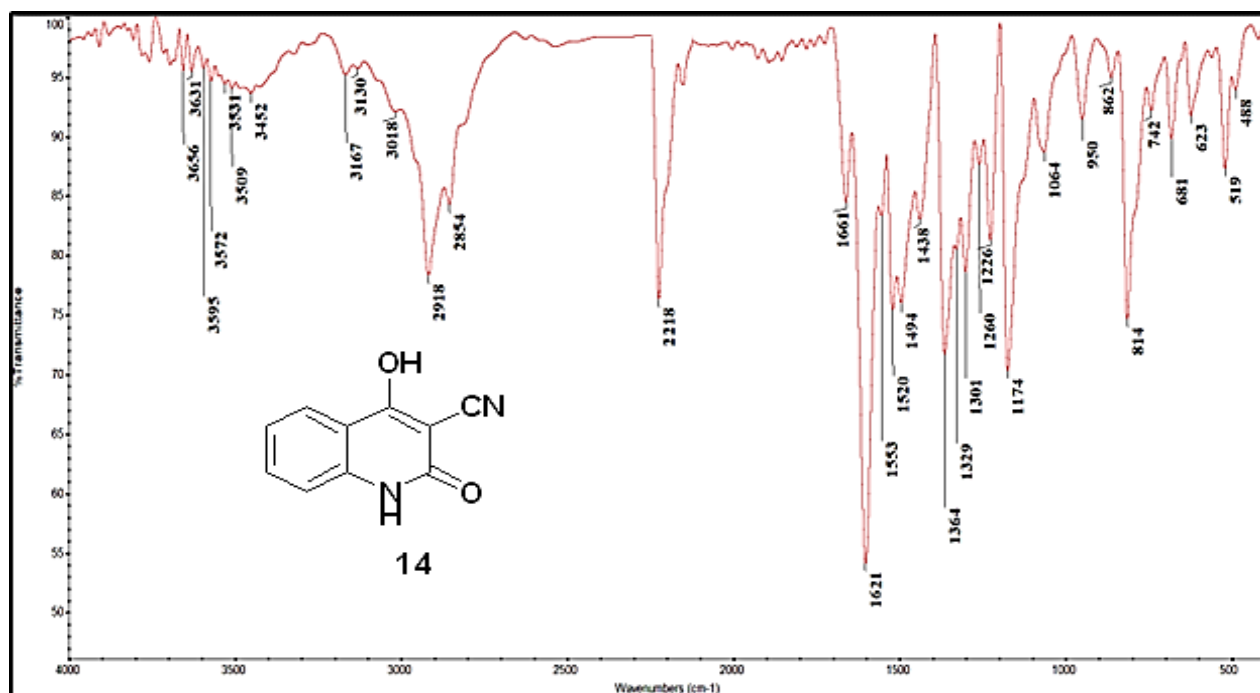


Fig. 19: IR Spectrum of compound 14

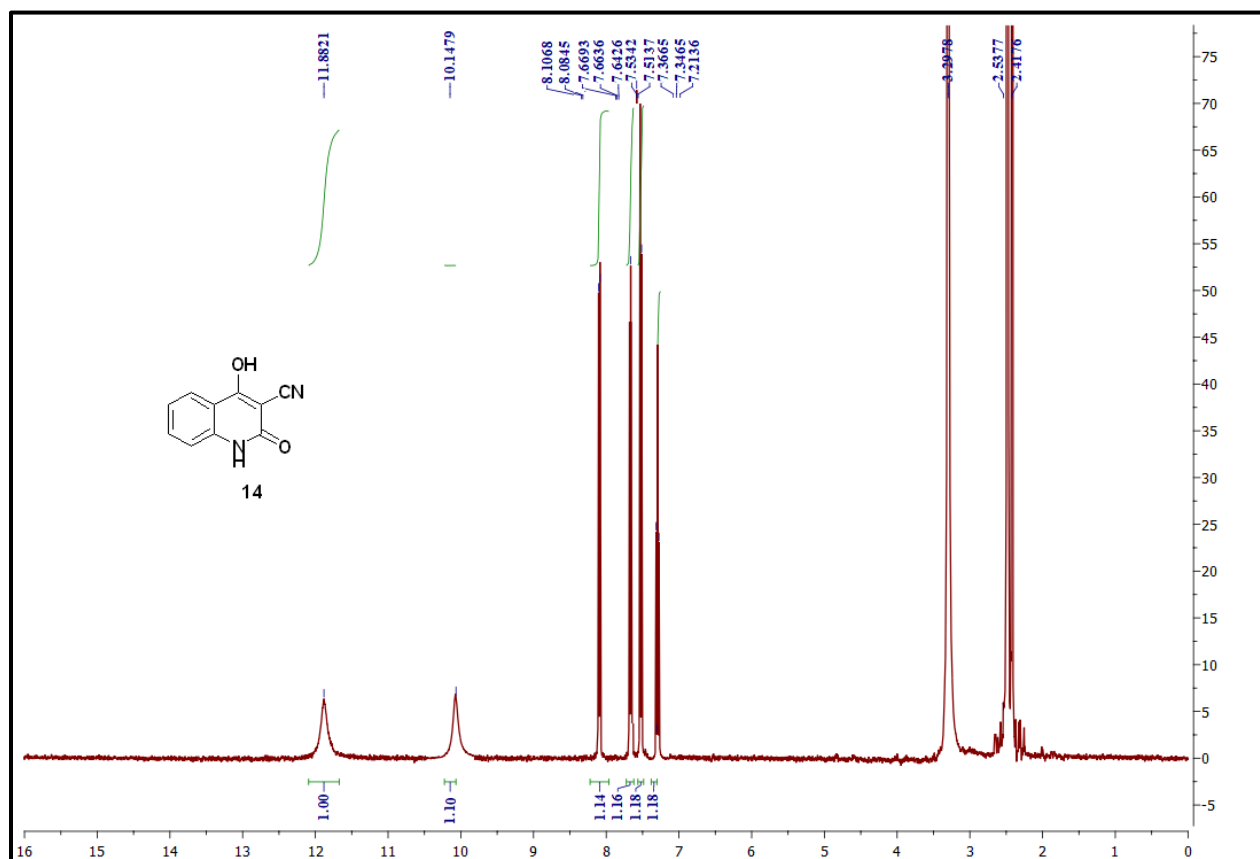


Fig. 20: ¹H-NMR Spectrum of compound 14

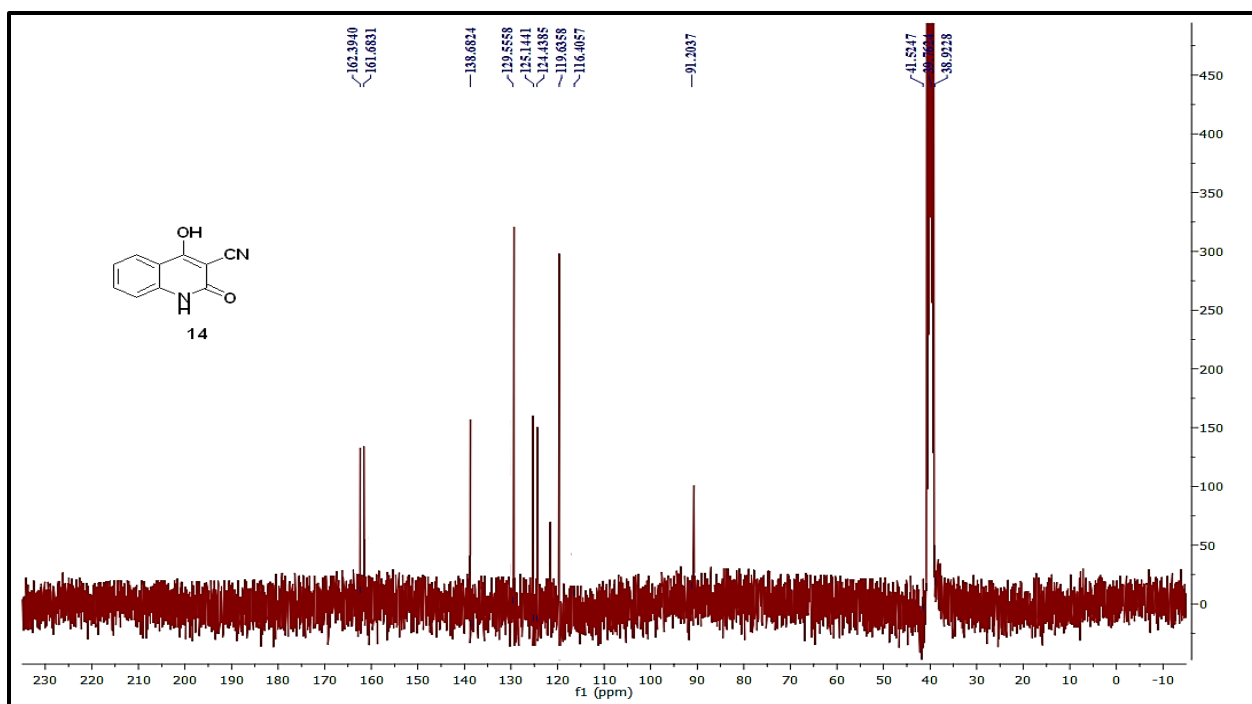


Fig. 21: ¹³C-NMR Spectrum of compound 14

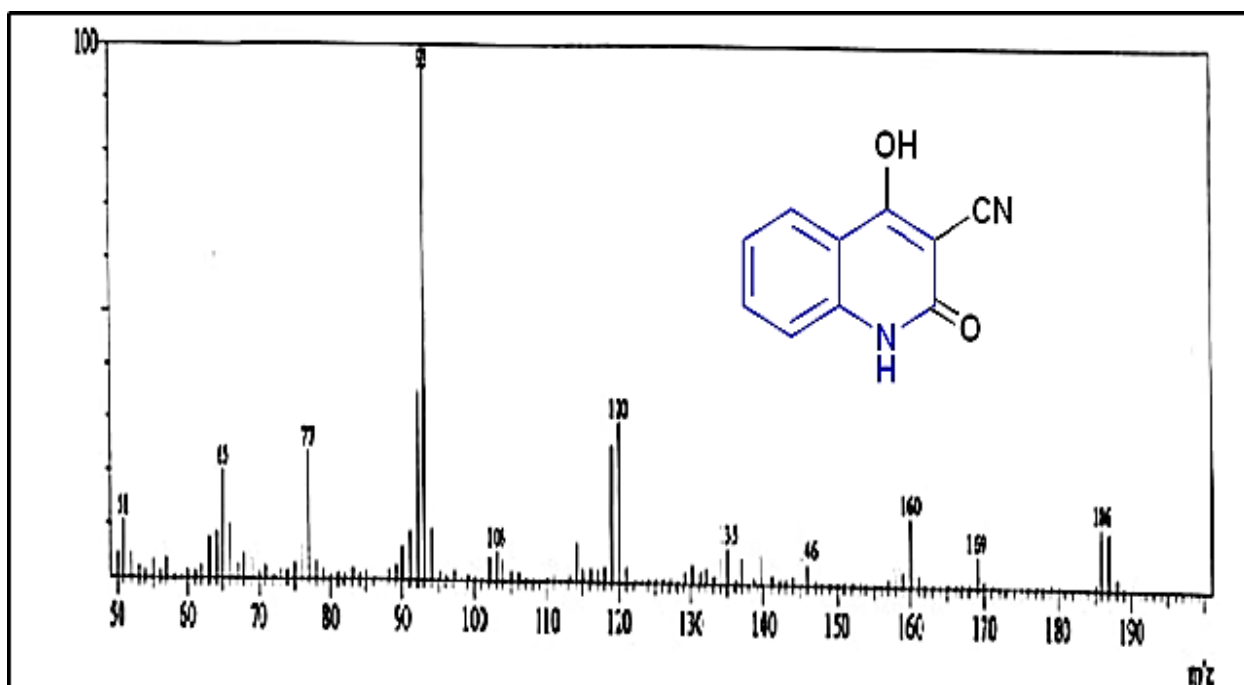


Fig. 22: Mass Spectrum of compound 14

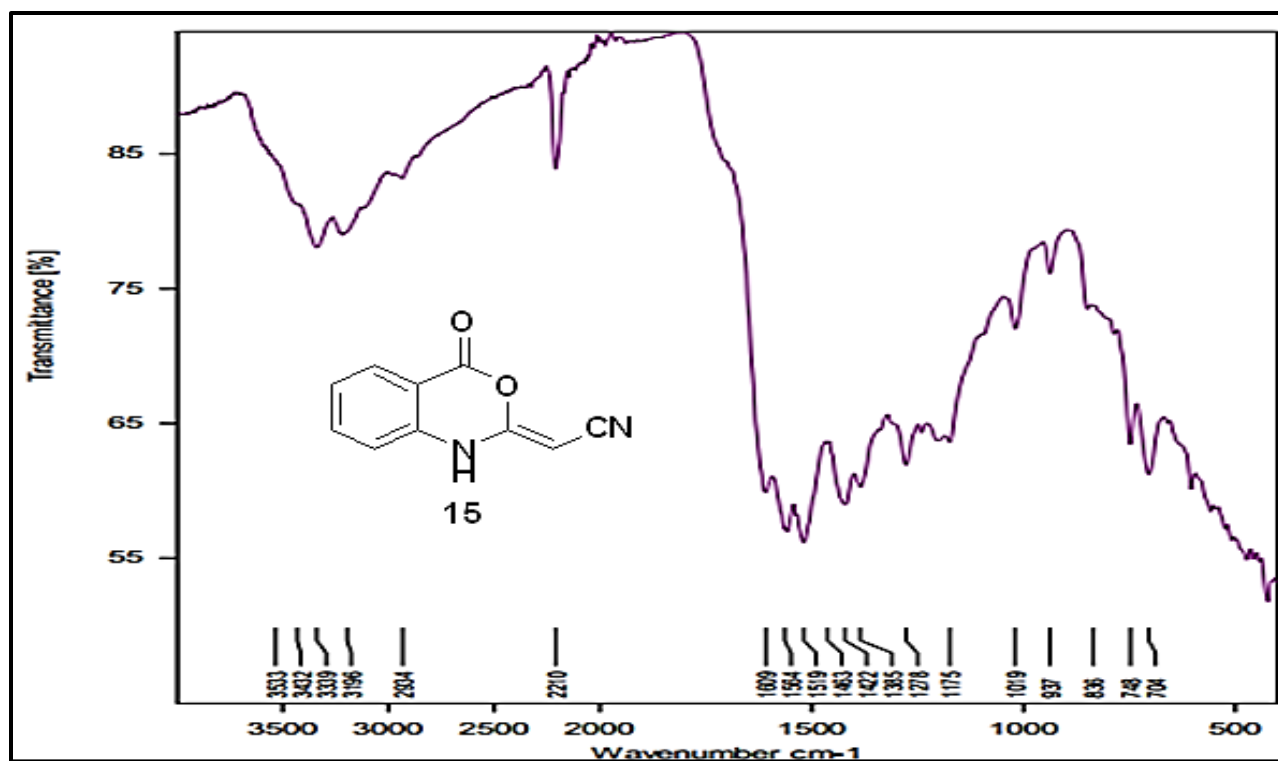


Fig. 23: IR Spectrum of compound 15

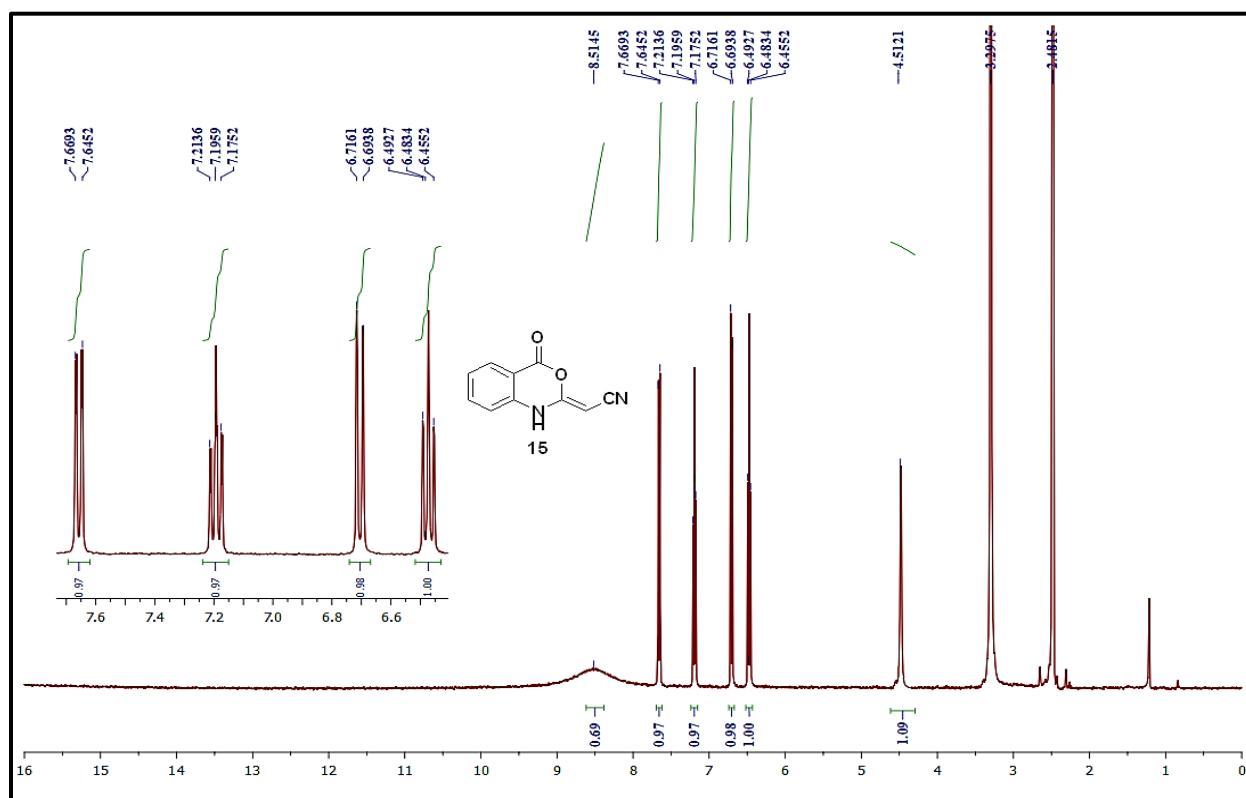


Fig. 24: $^1\text{H-NMR}$ Spectrum of compound 15

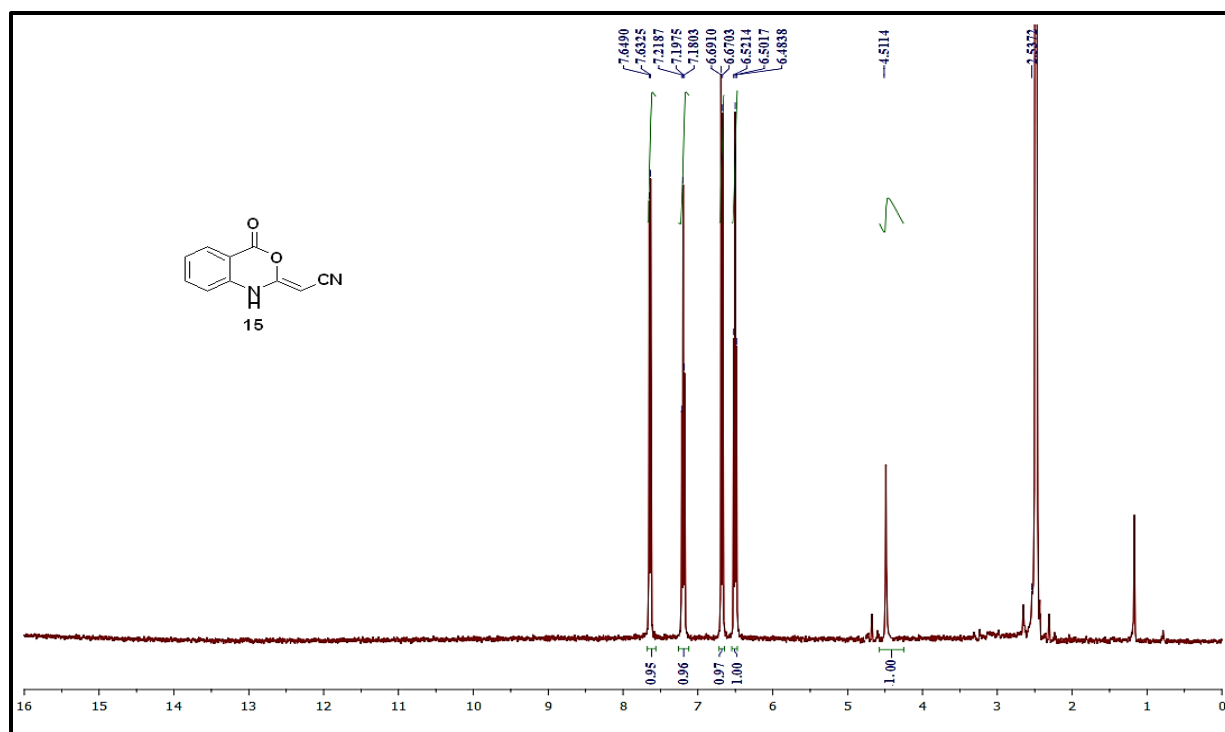


Fig. 25: ¹H-NMR Spectrum (D₂O) of compound 15

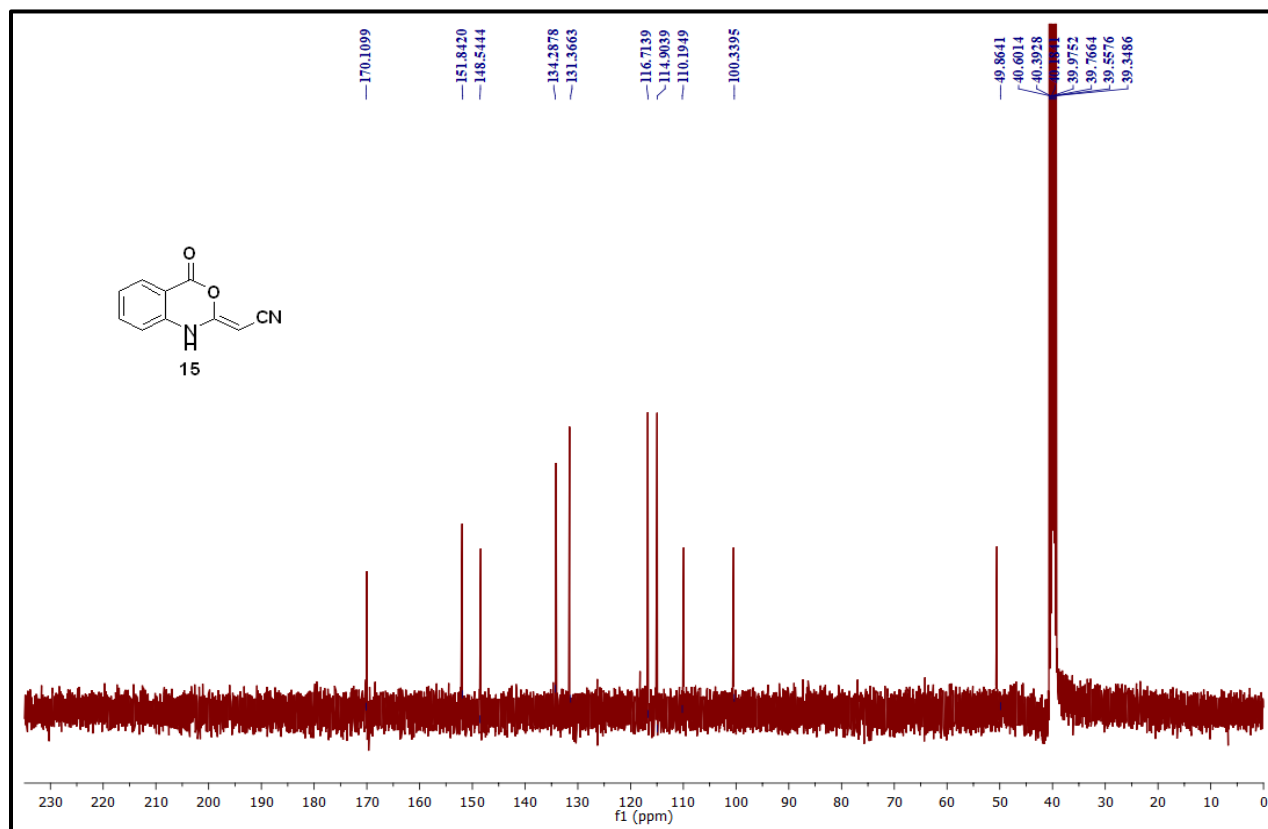


Fig. 26: ¹³C-NMR Spectrum of compound 15

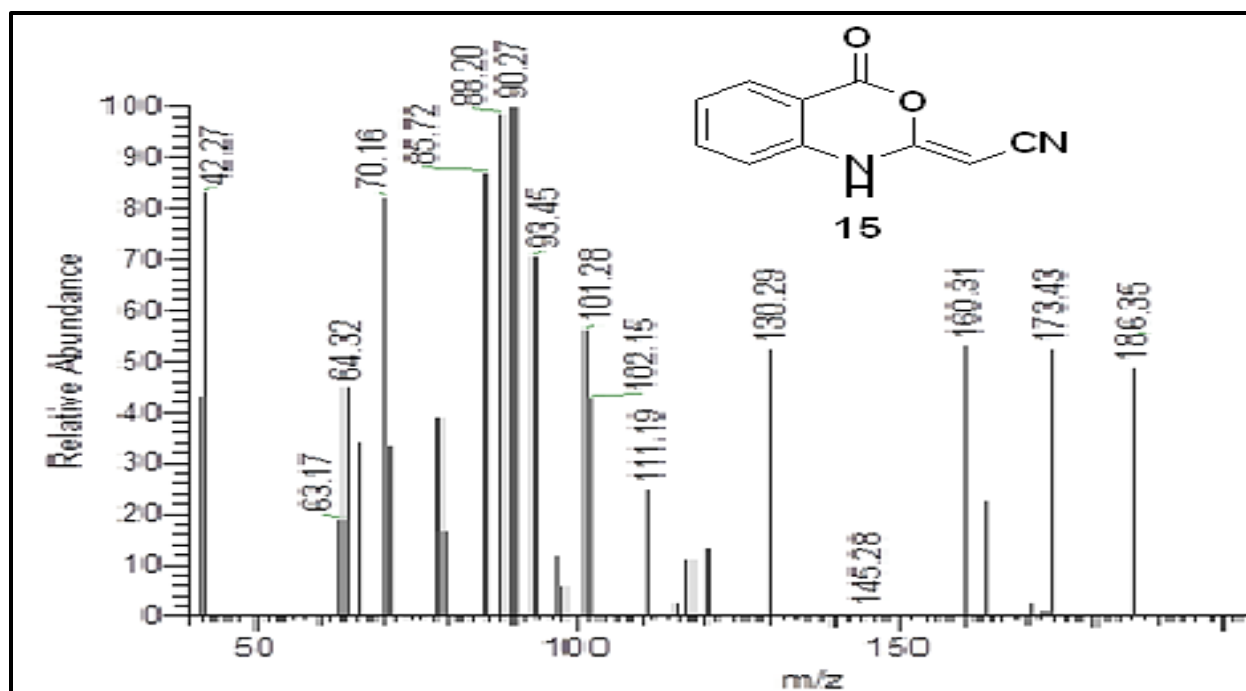


Fig. 27: Mass Spectrum of compound 15

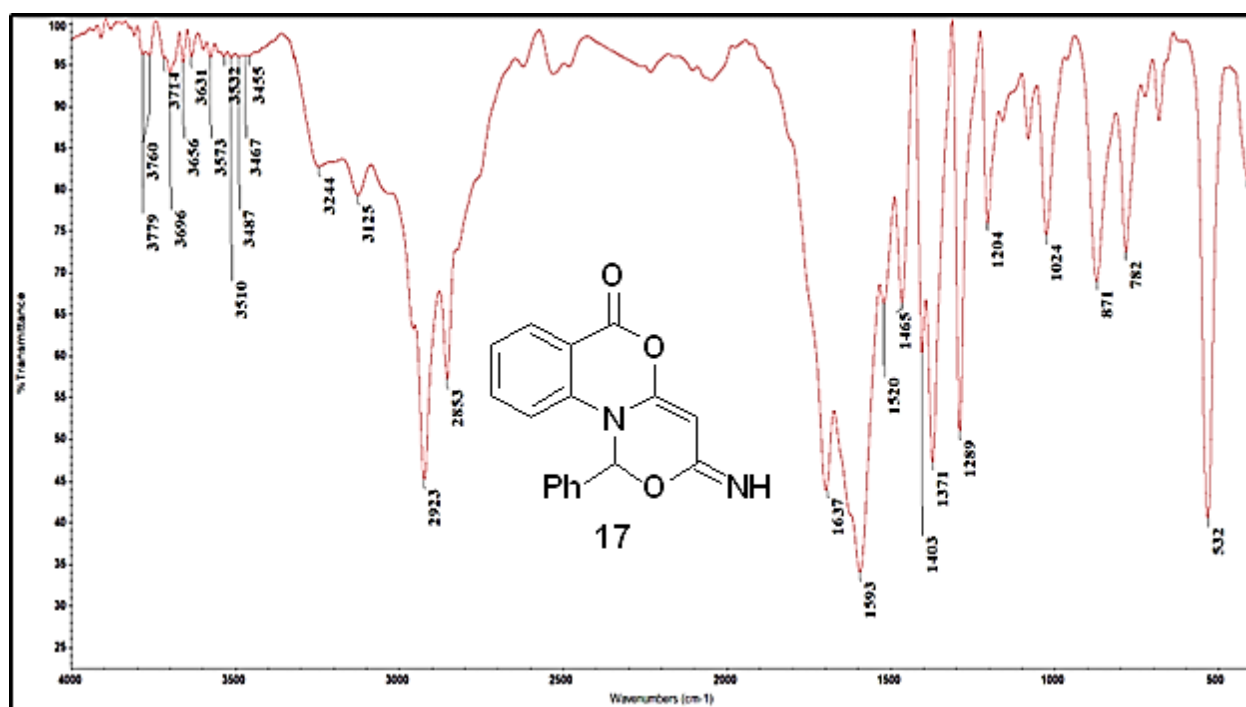
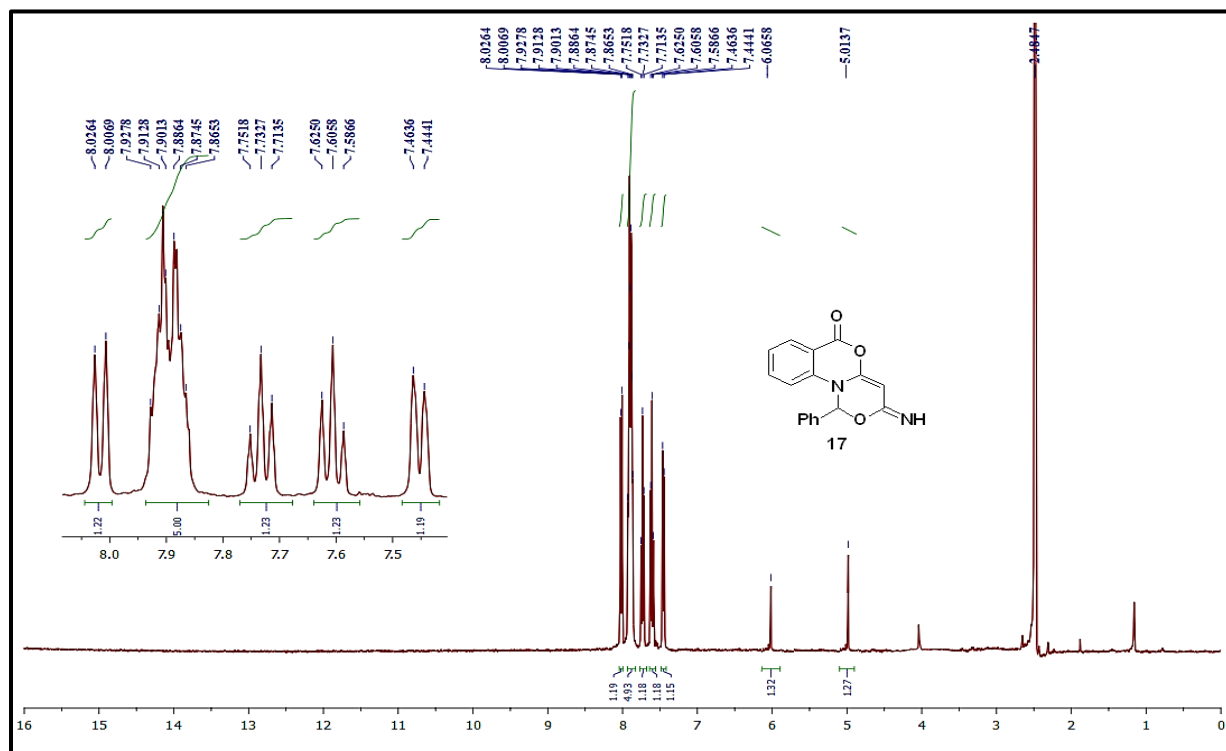
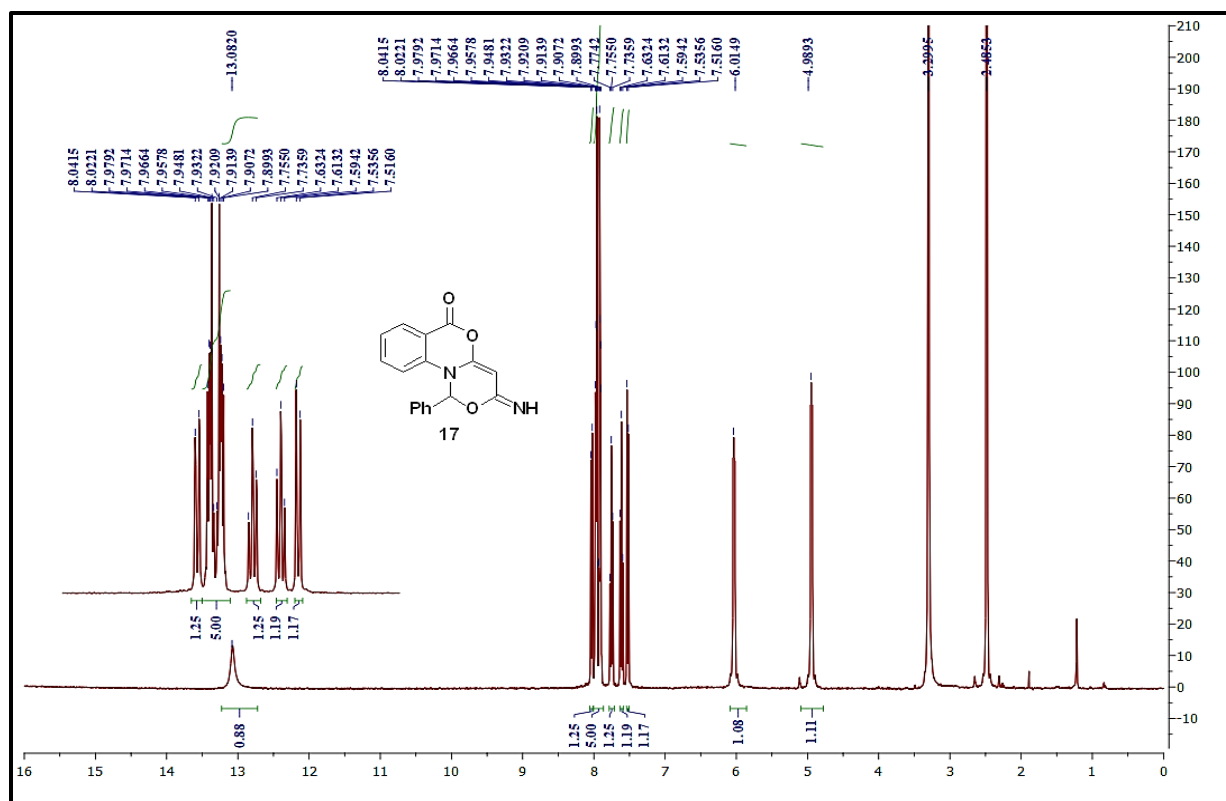


Fig. 28: IR Spectrum of compound 17



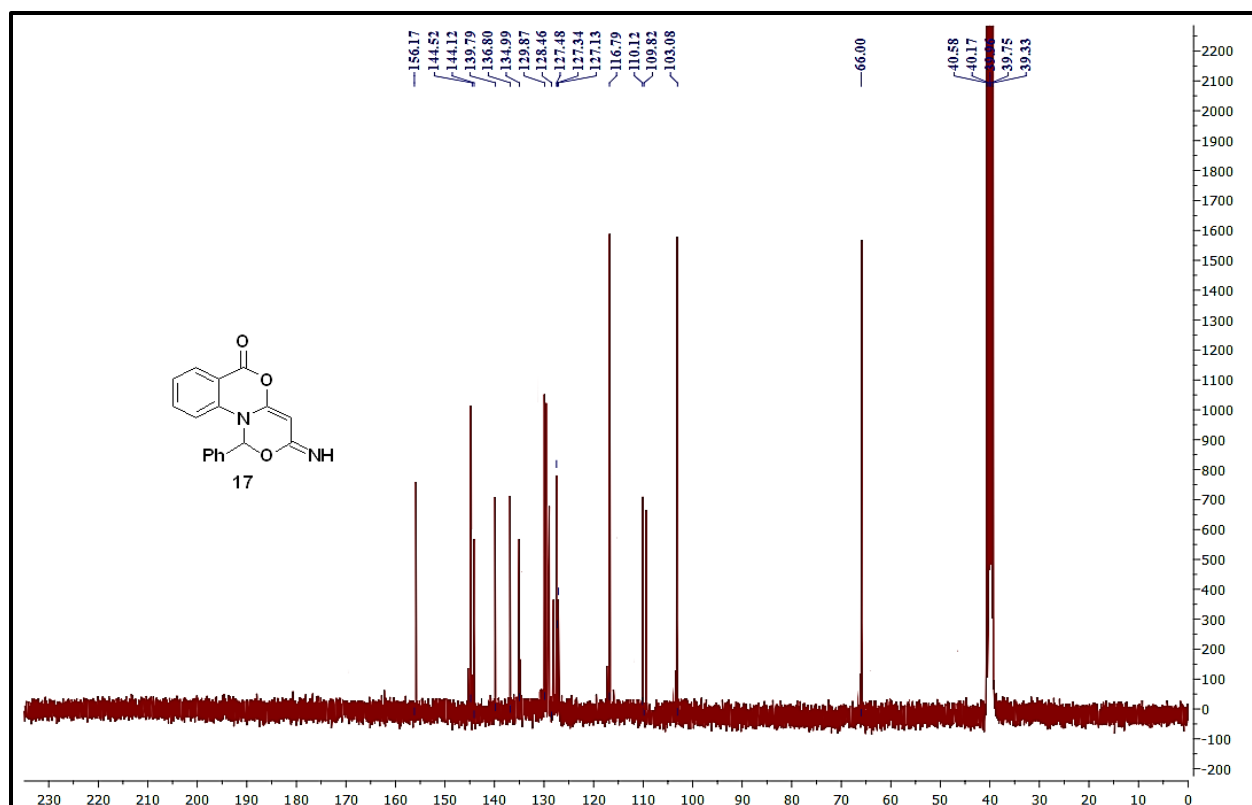


Fig. 31: ¹³C-NMR Spectrum of compound 17

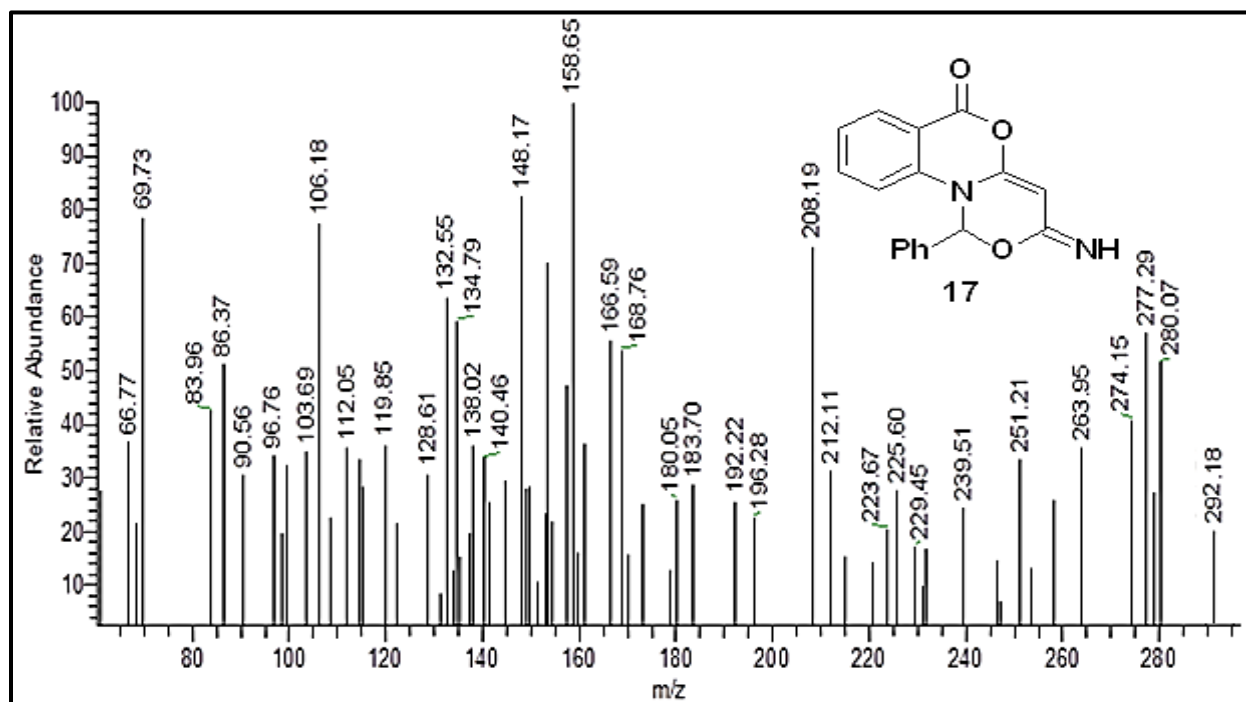


Fig. 32: Mass Spectrum of compound 17