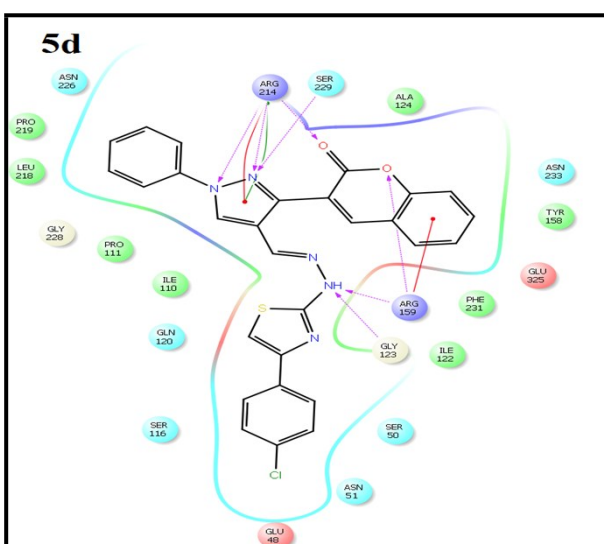
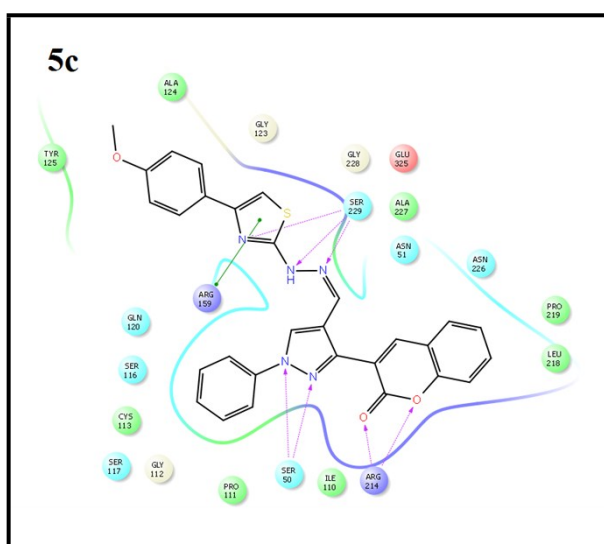
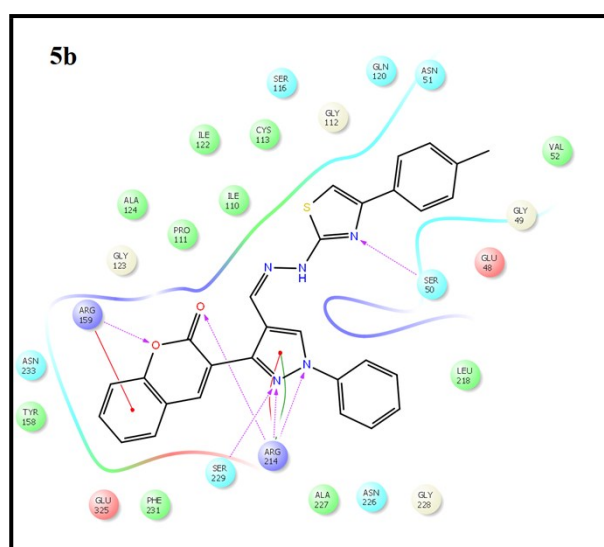
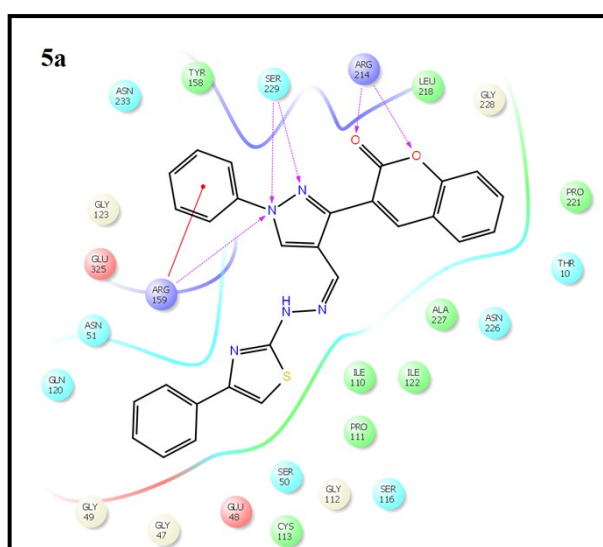


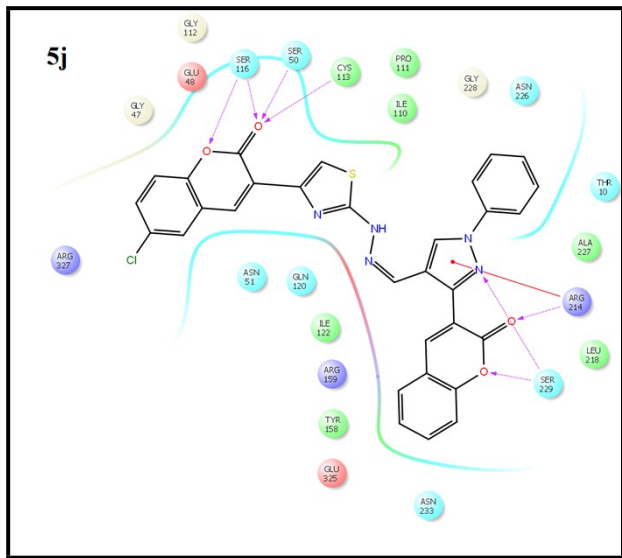
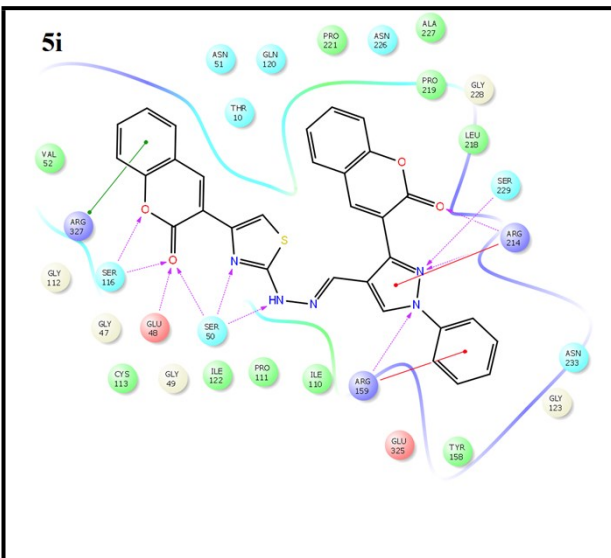
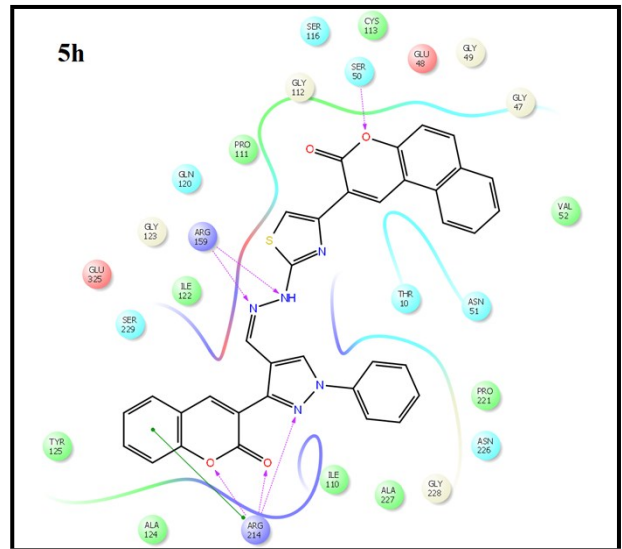
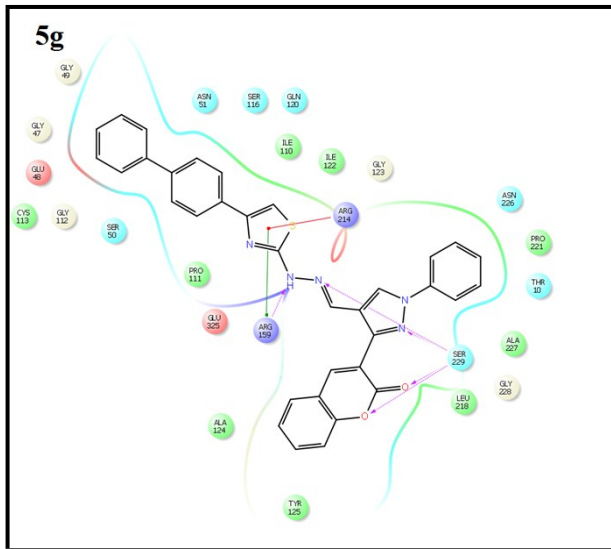
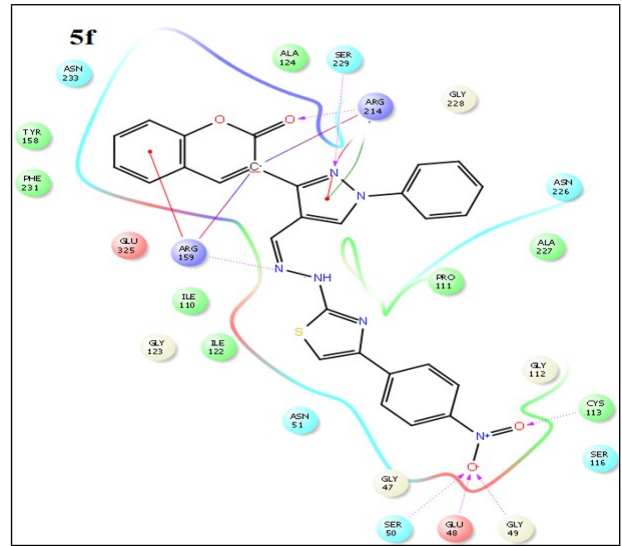
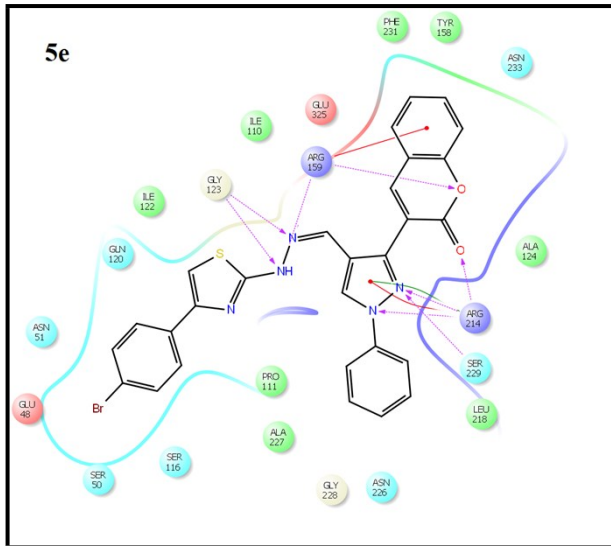
## Supporting file

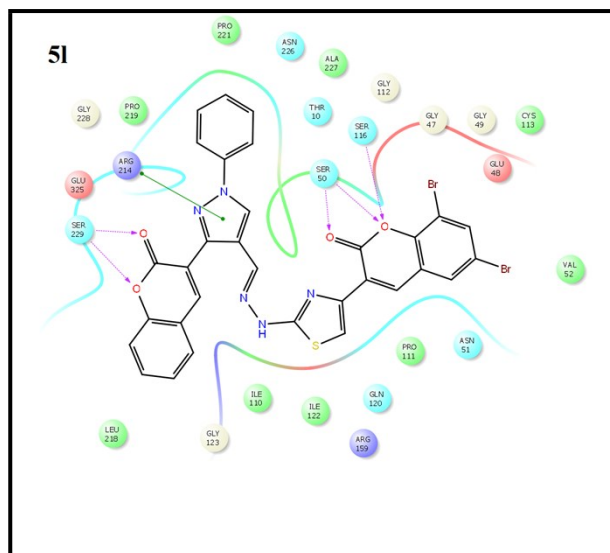
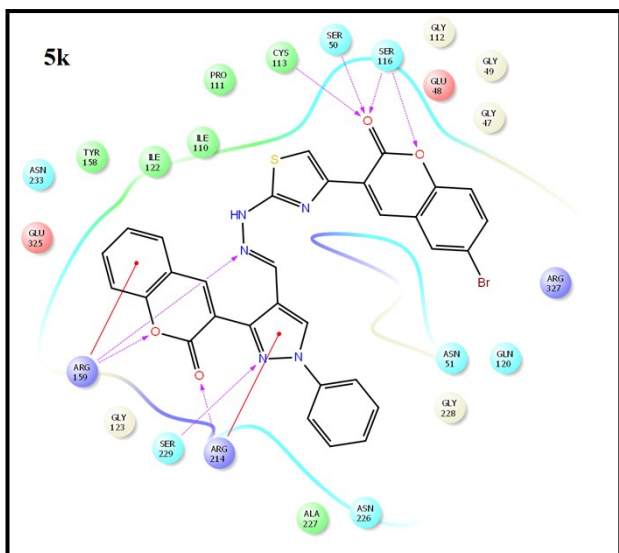
### 3-(1-Phenyl-4-((2-(4-arylthiazol-2-yl)hydrazono)methyl)-1H-pyrazol-3-yl)-2H-chromen-2-ones: One-pot three component condensation, *in vitro* antimicrobial, antioxidant and molecular docking studies

Ramesh Gondru<sup>a</sup>, Janardhan Banothu<sup>a</sup>, Ranjith Kumar Thatipamula<sup>b</sup>, Althaf Hussain SK<sup>c</sup>, Rajitha Bavantula<sup>a,\*</sup>

**Molecular docking studies:** Interaction (H-bonding) between the ligands (**5a-l**) and the amino acids of the receptor are shown in the following figures.

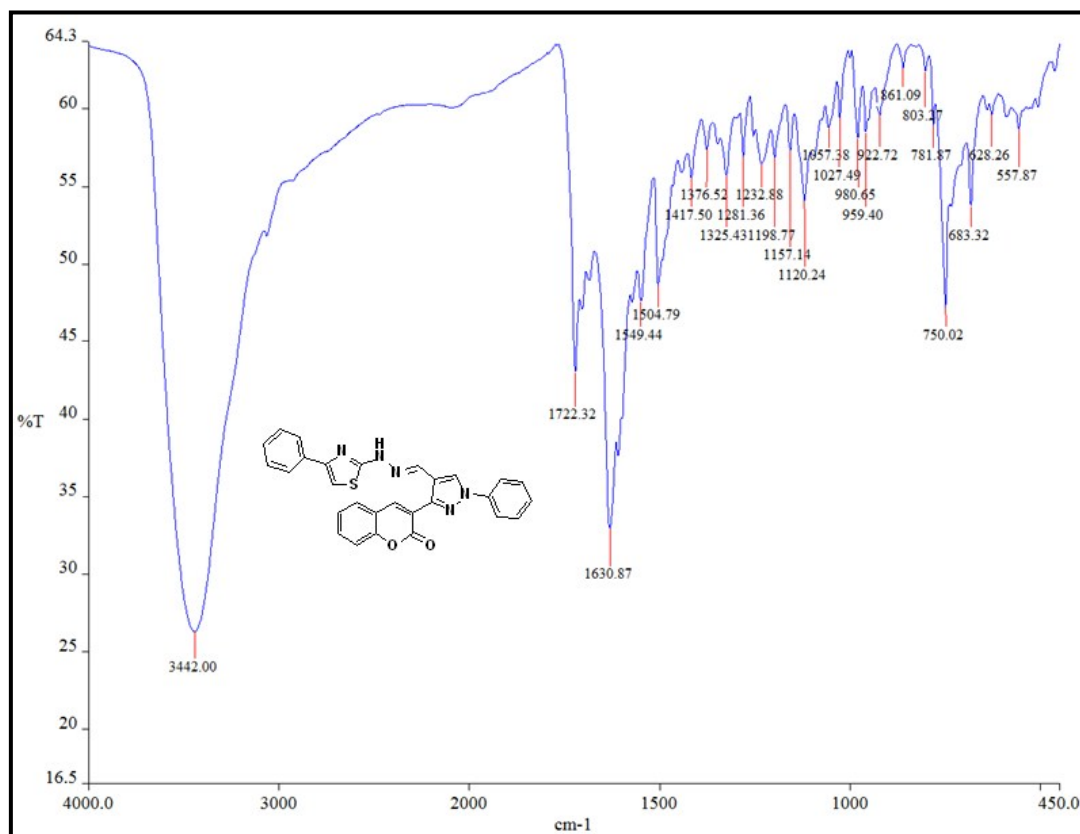




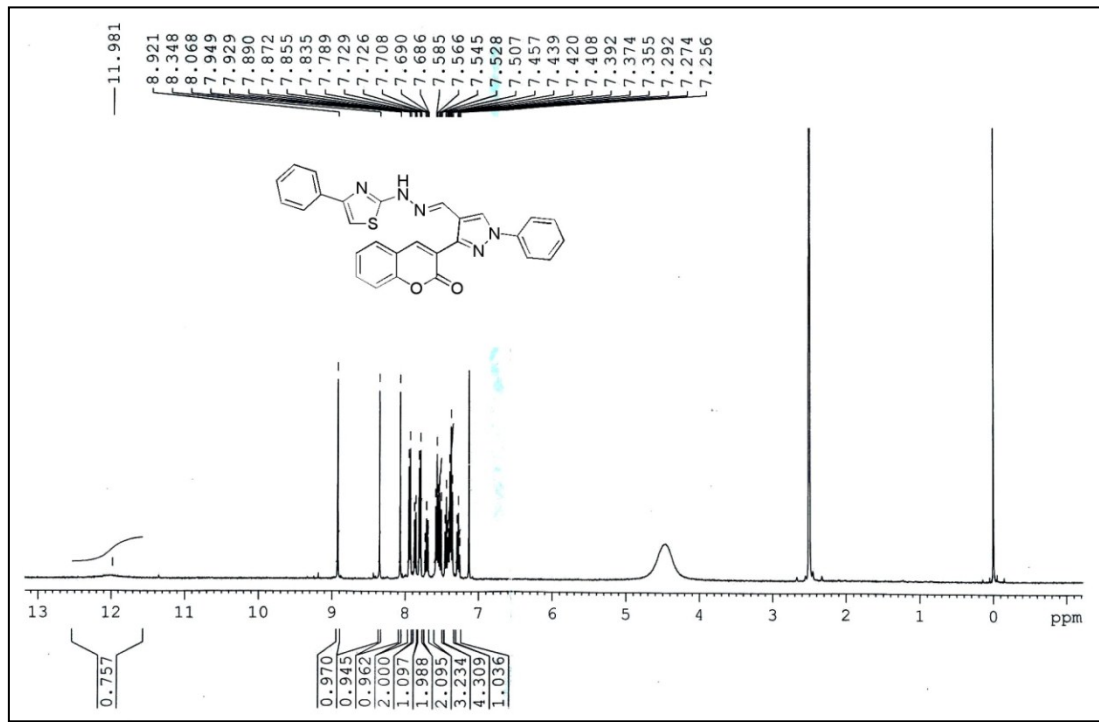


	Charged (negative)		Water		H-bond (side chain)
	Charged (positive)		Hydration site		Metal coordination
	Polar		Displaced hydration site		Salt Bridge
	Hydrophobic		$\pi$ - $\pi$ stacking		Solvent exposure
	Glycine		$\pi$ -cation		
	Metal		H-bond (backbone)		

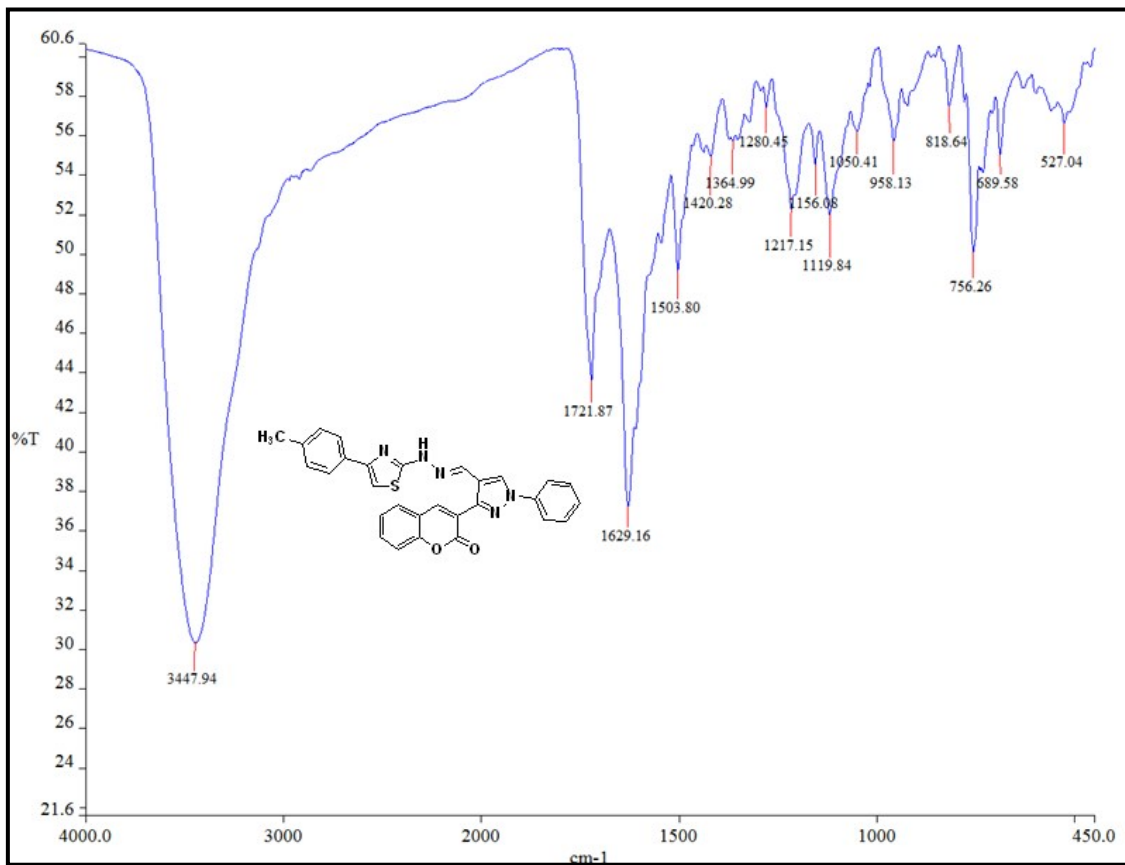
## Spectra



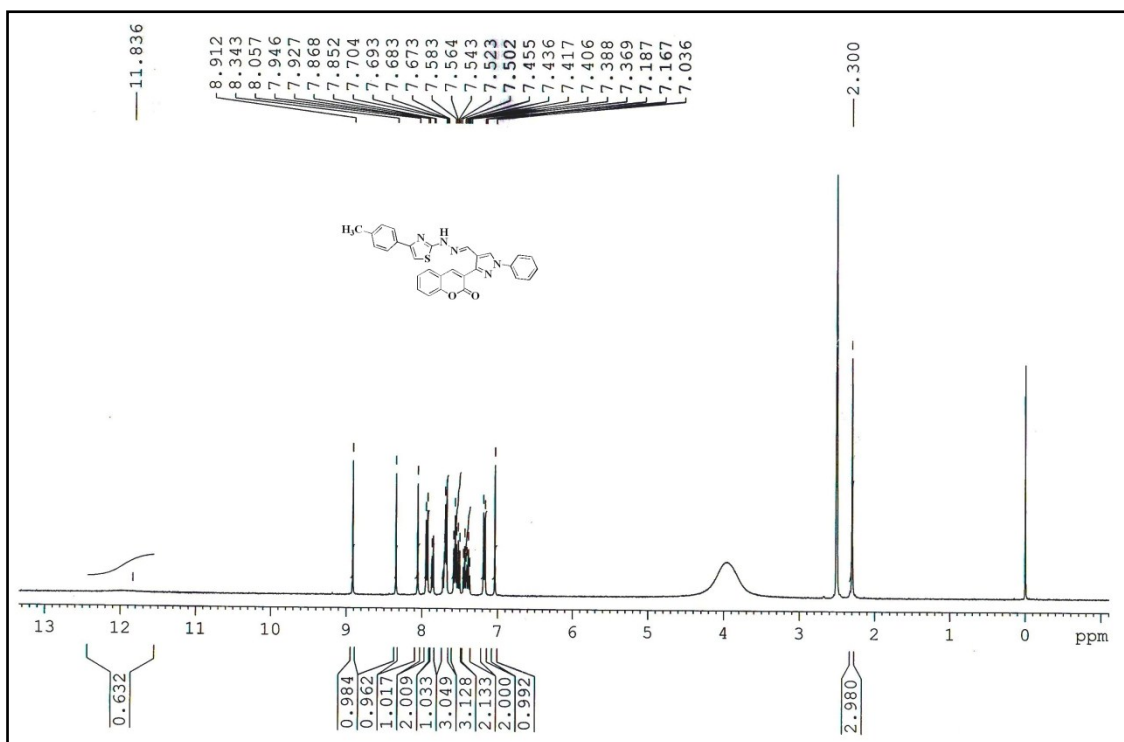
IR (KBr) spectrum of compound 5a



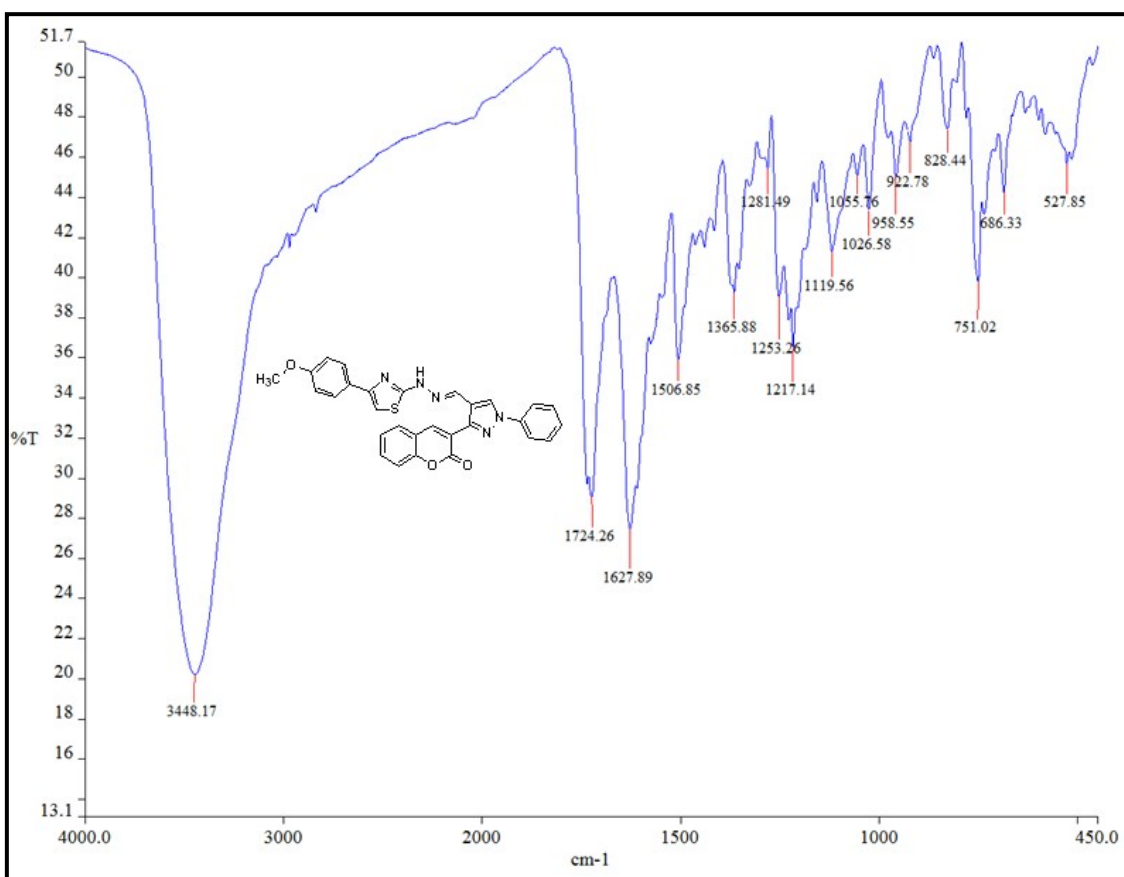
**<sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5a**



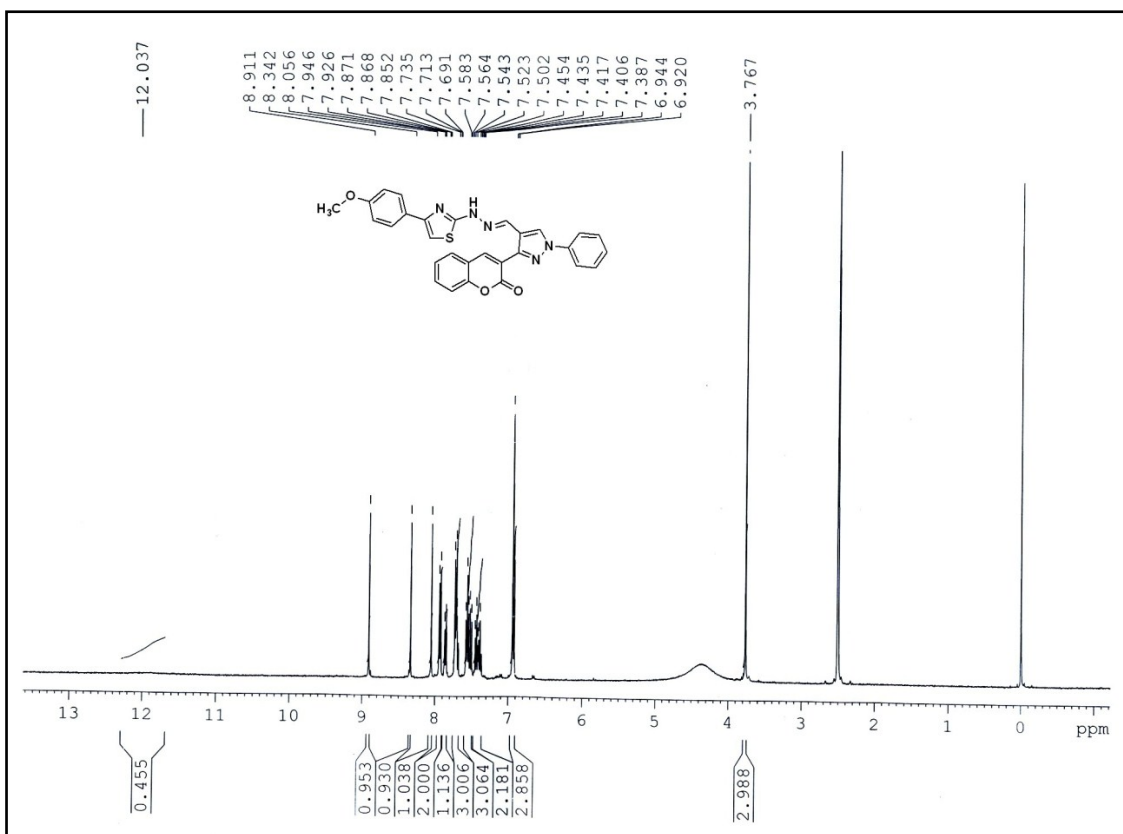
**IR (KBr) spectrum of compound 5b**



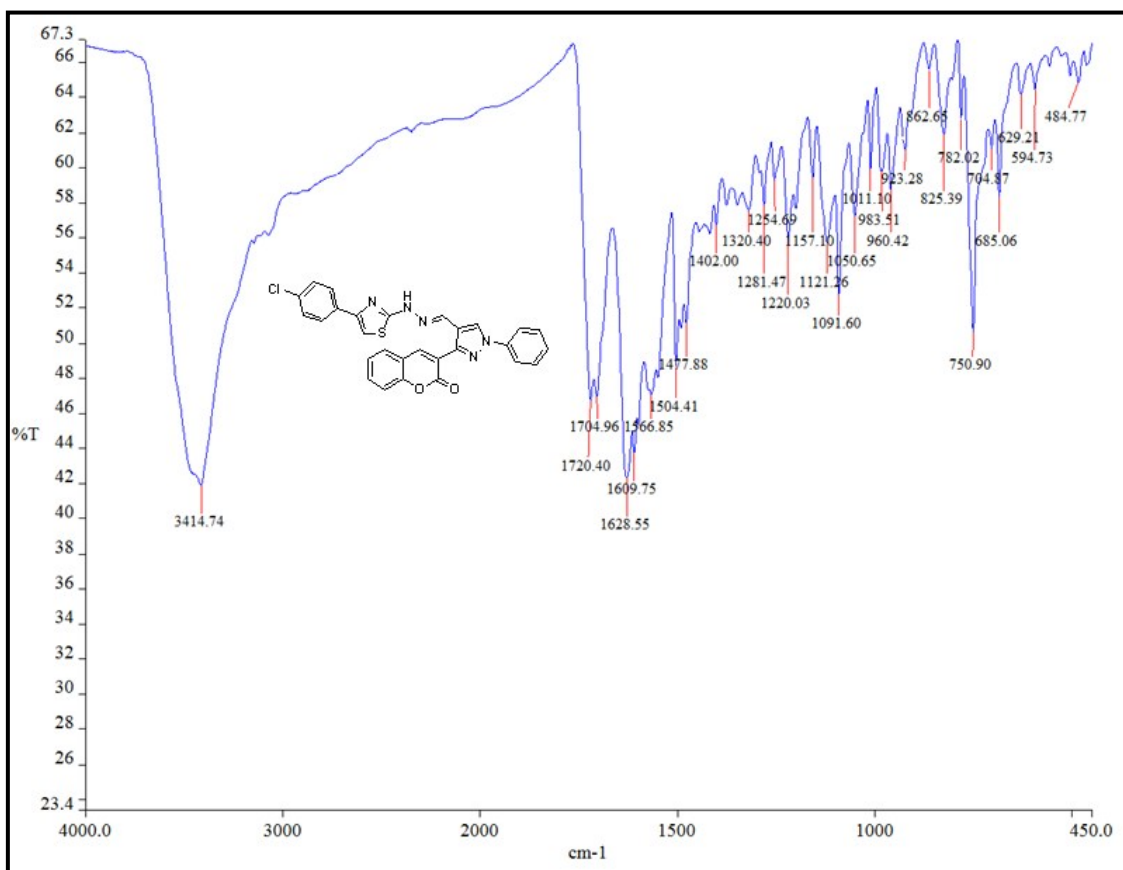
**<sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5b**



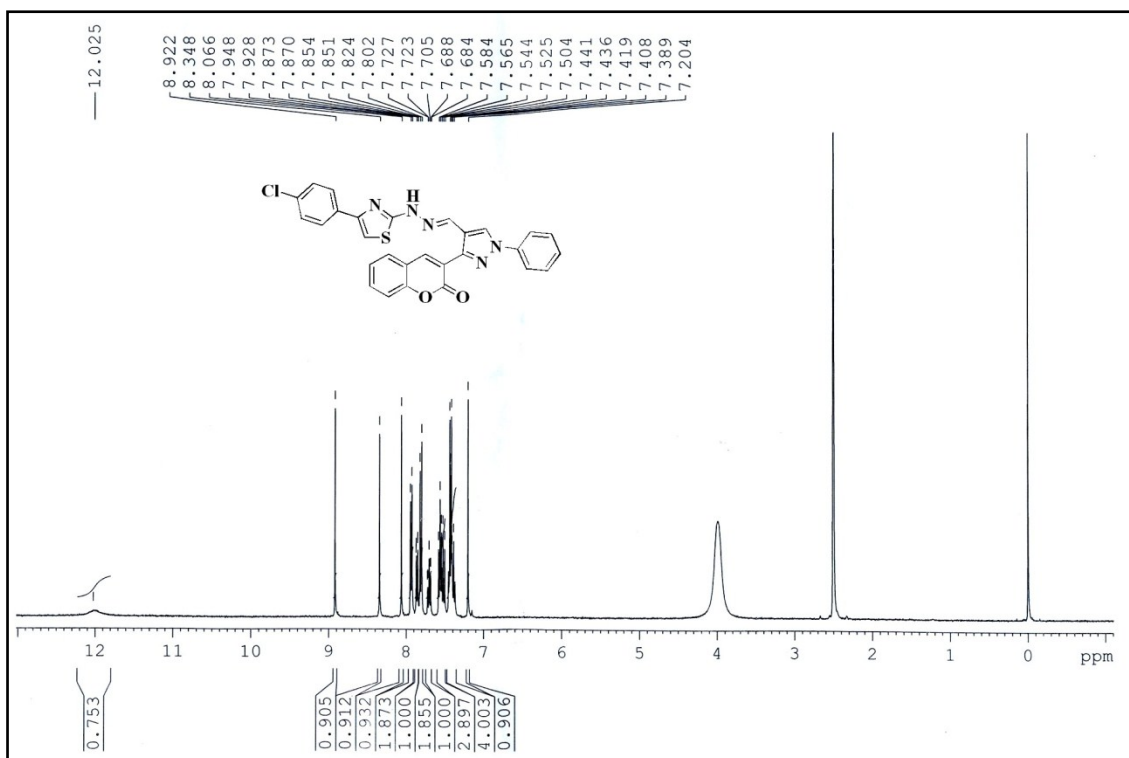
**IR (KBr) spectrum of compound 5c**



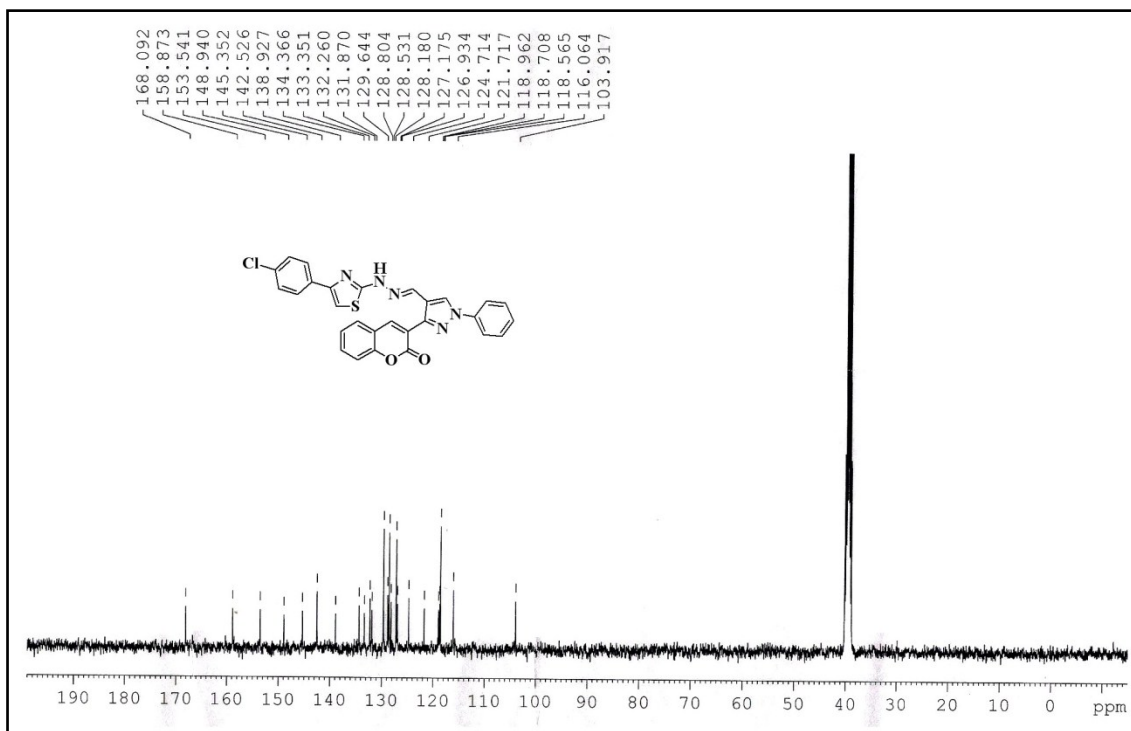
**<sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5c**



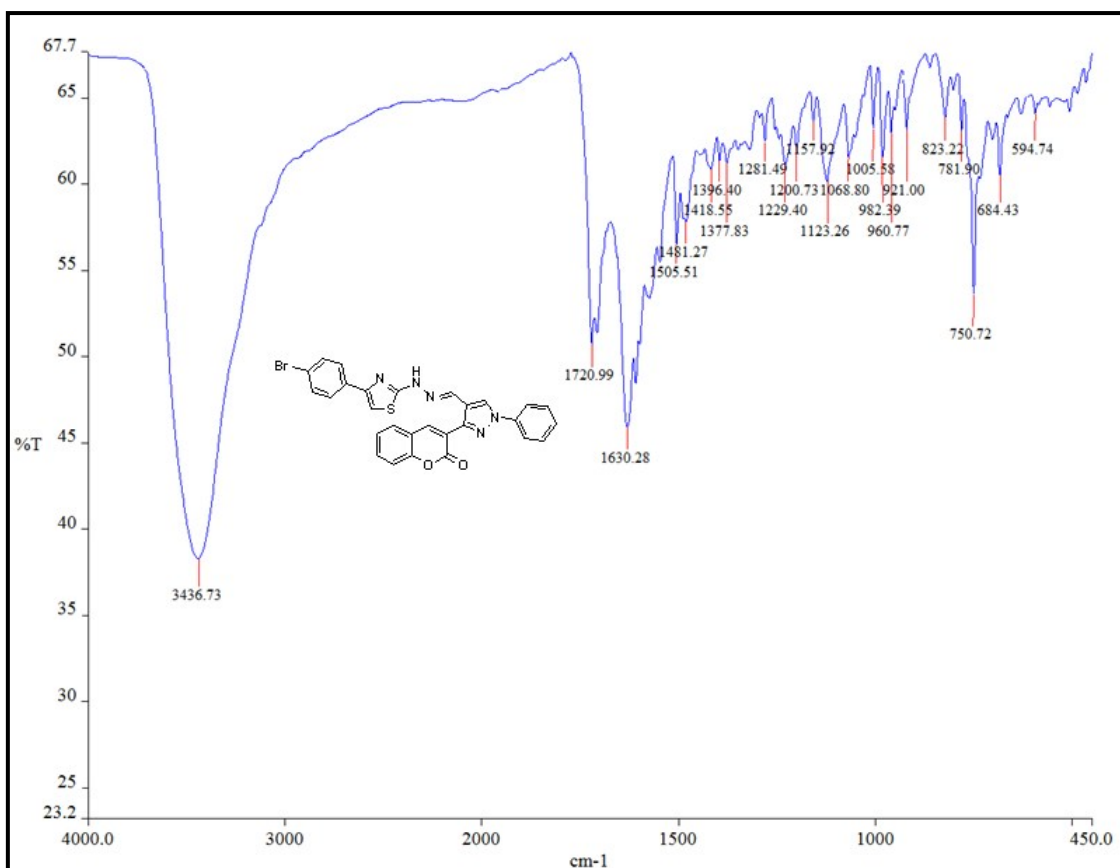
**IR (KBr) spectrum of compound 5d**



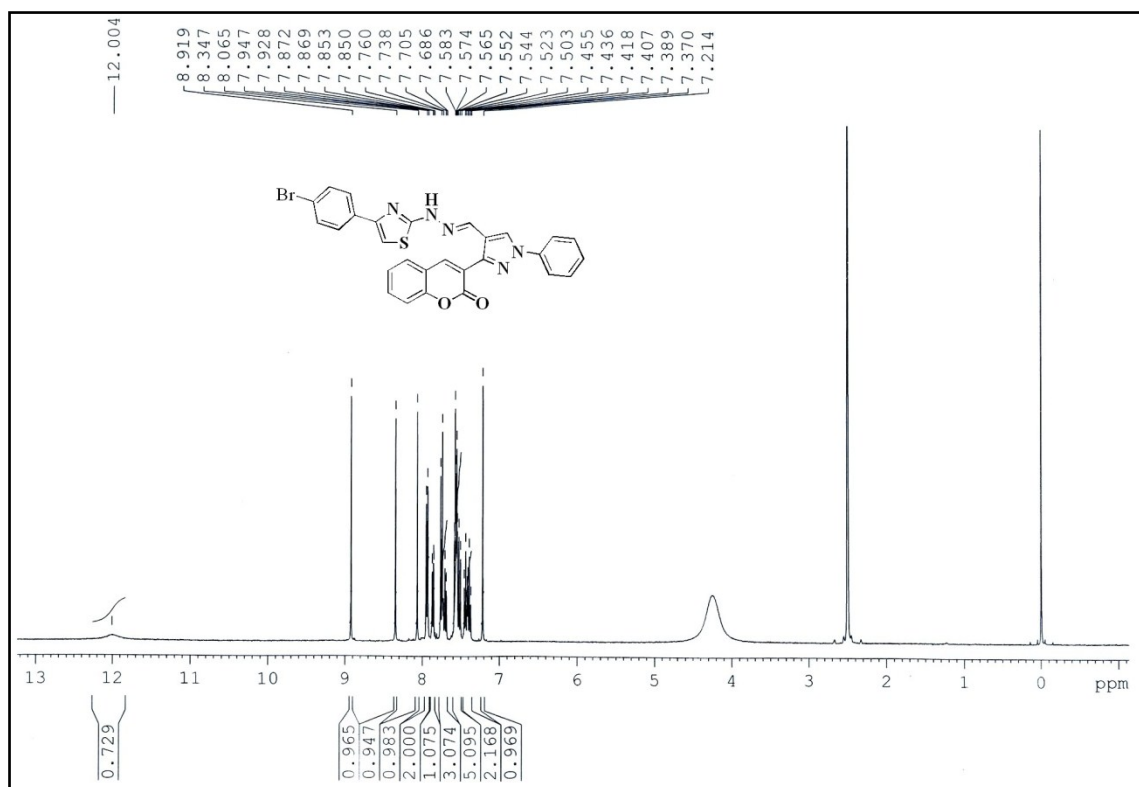
<sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5d



<sup>13</sup>C NMR (100 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5d

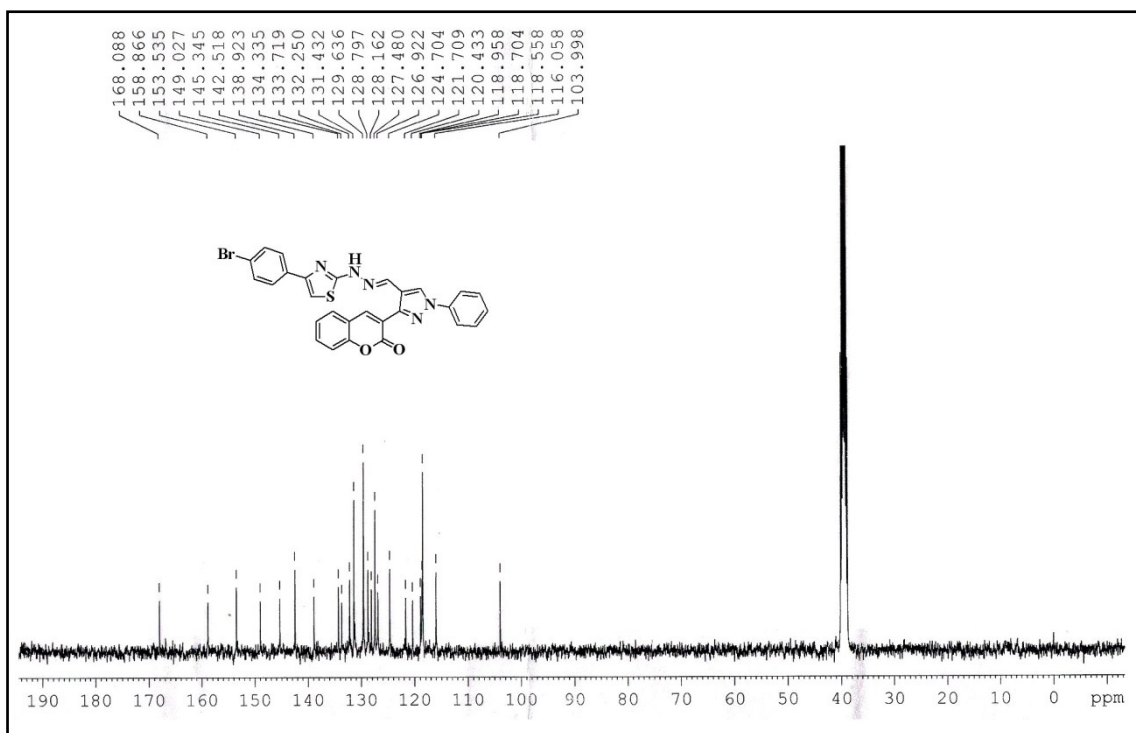


IR (KBr) spectrum of compound 5e

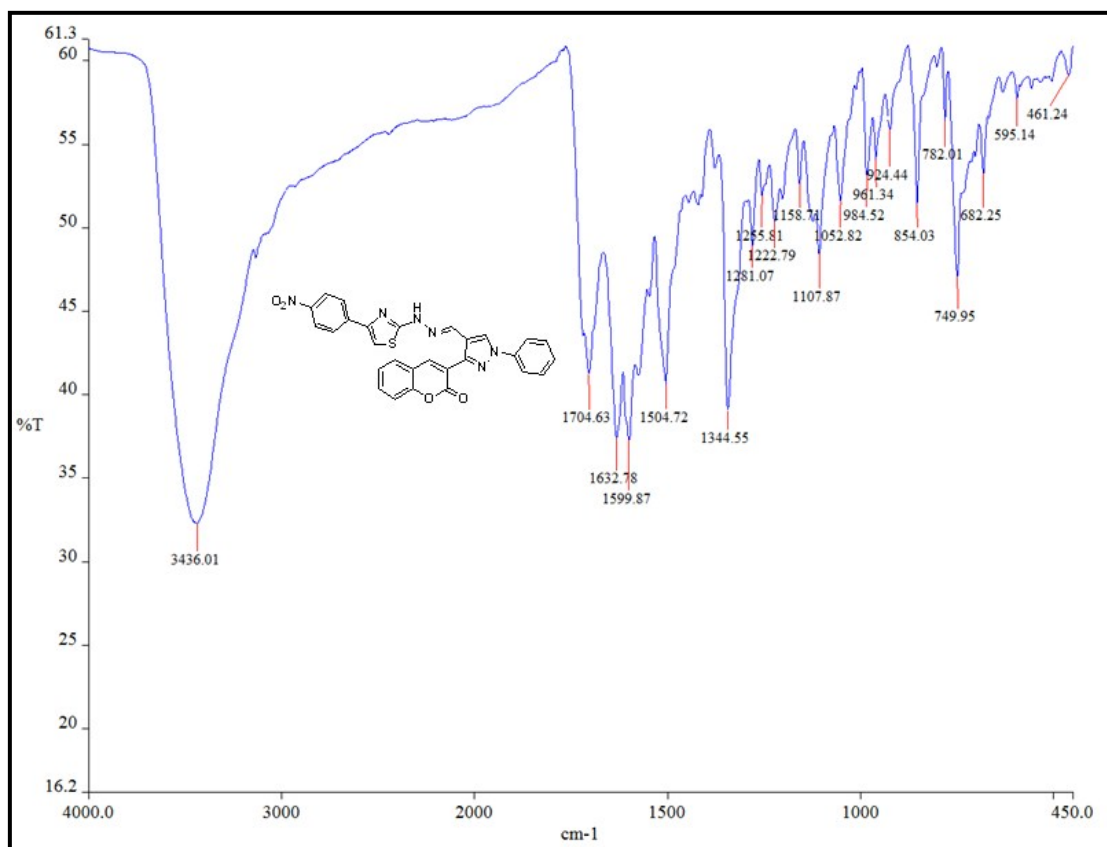


<sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5e

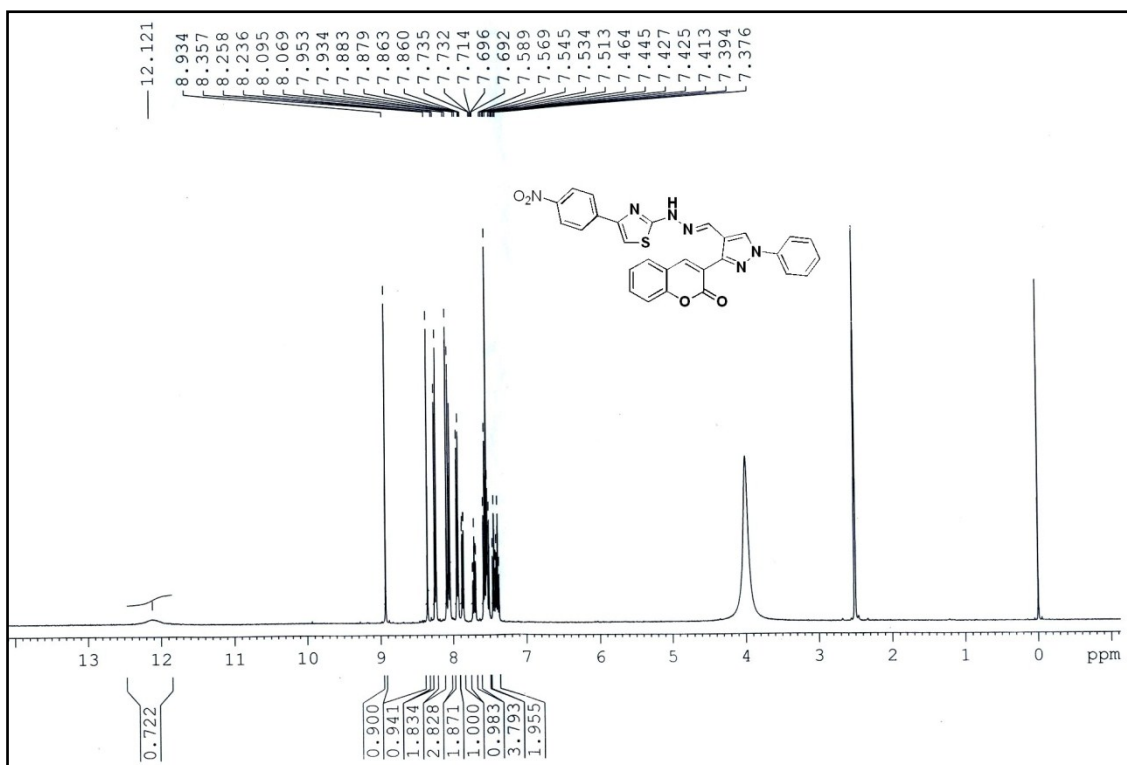




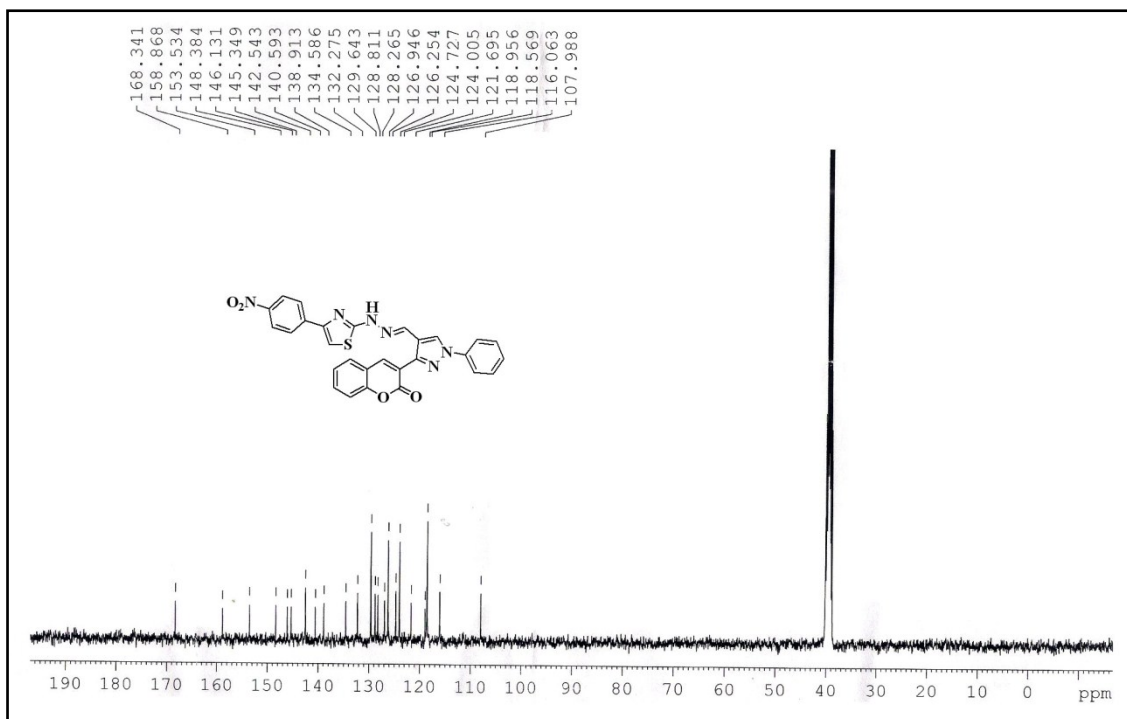
**$^{13}\text{C}$  NMR (100 MHz,  $\text{DMSO-}d_6$ ) spectrum of compound 5e**



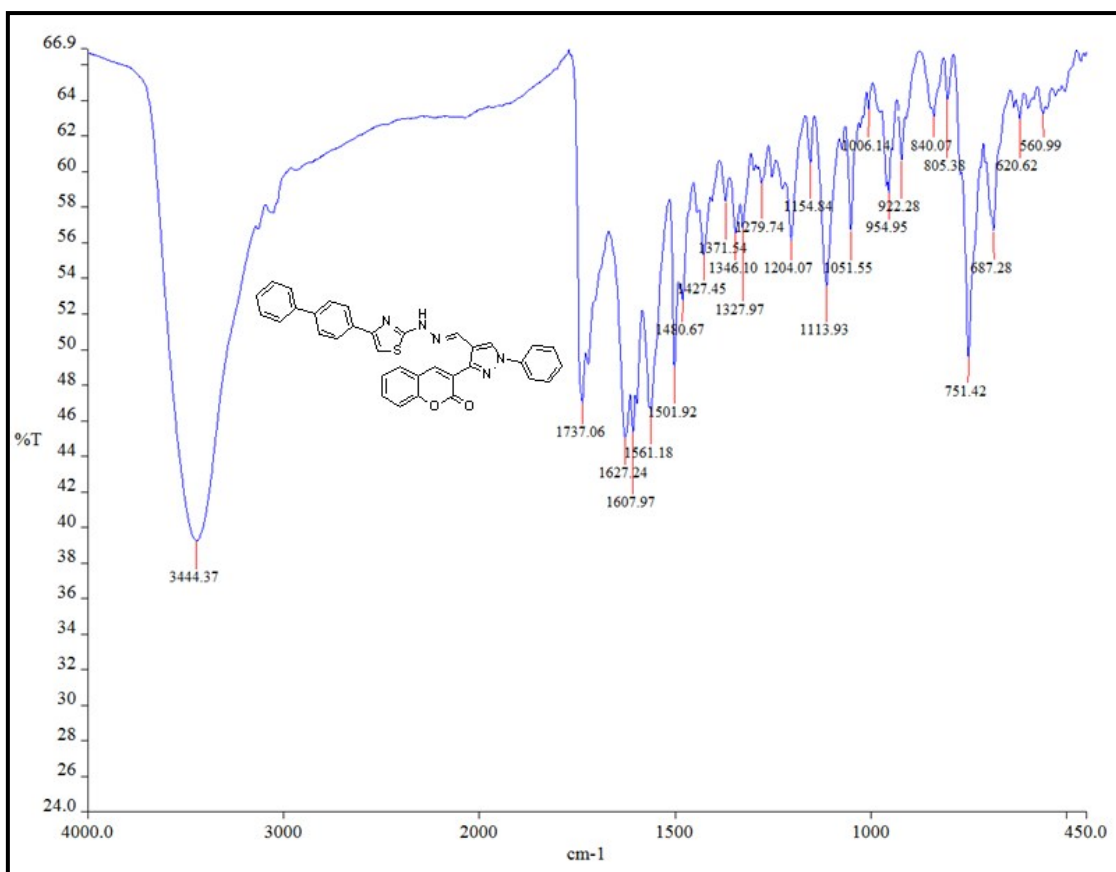
**IR (KBr) spectrum of compound 5f**



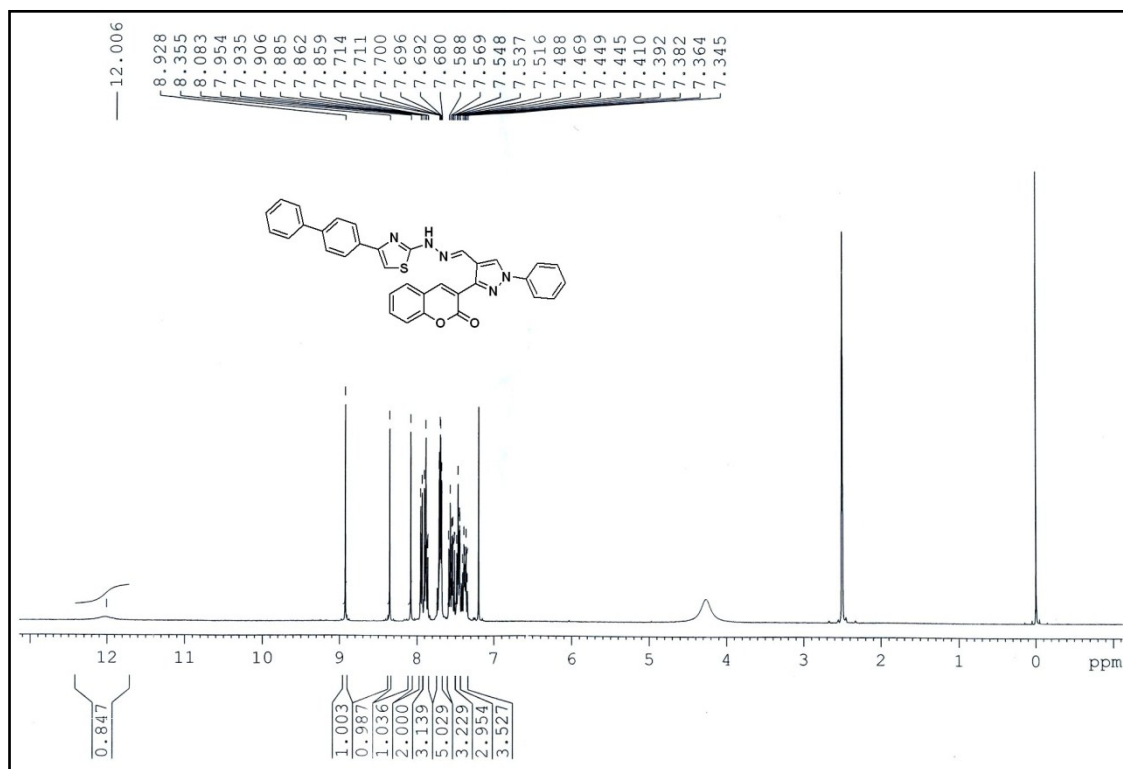
**<sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5f**



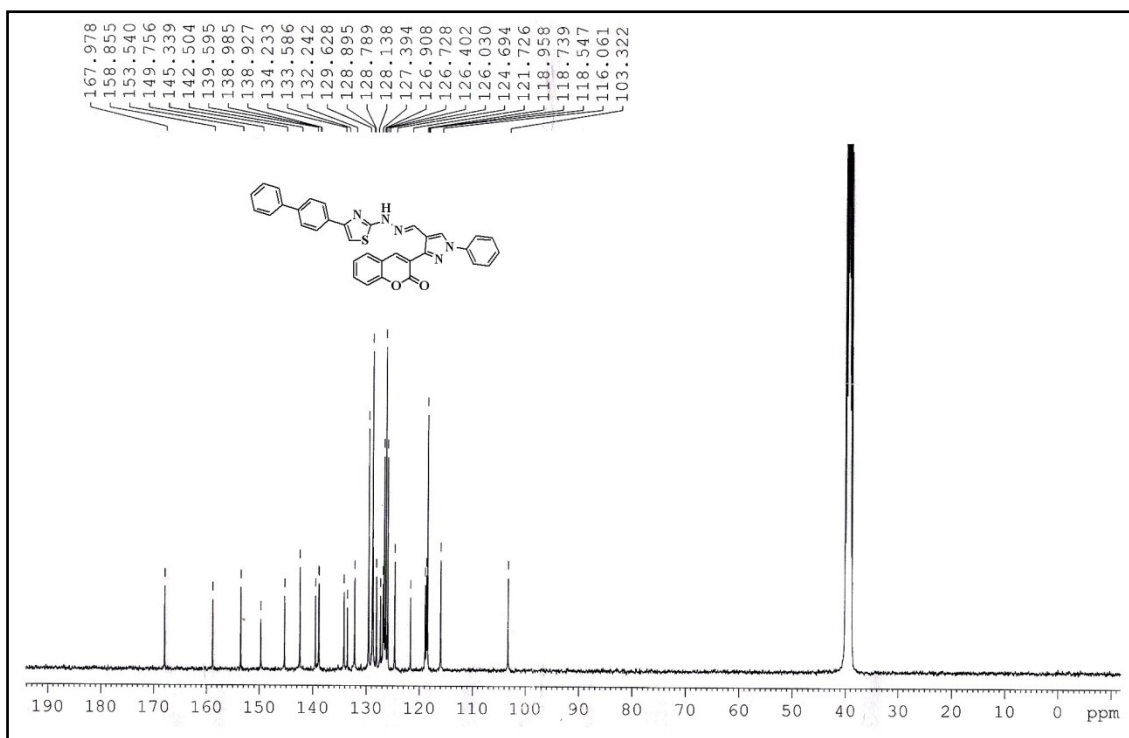
**<sup>13</sup>C NMR (100 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5f**



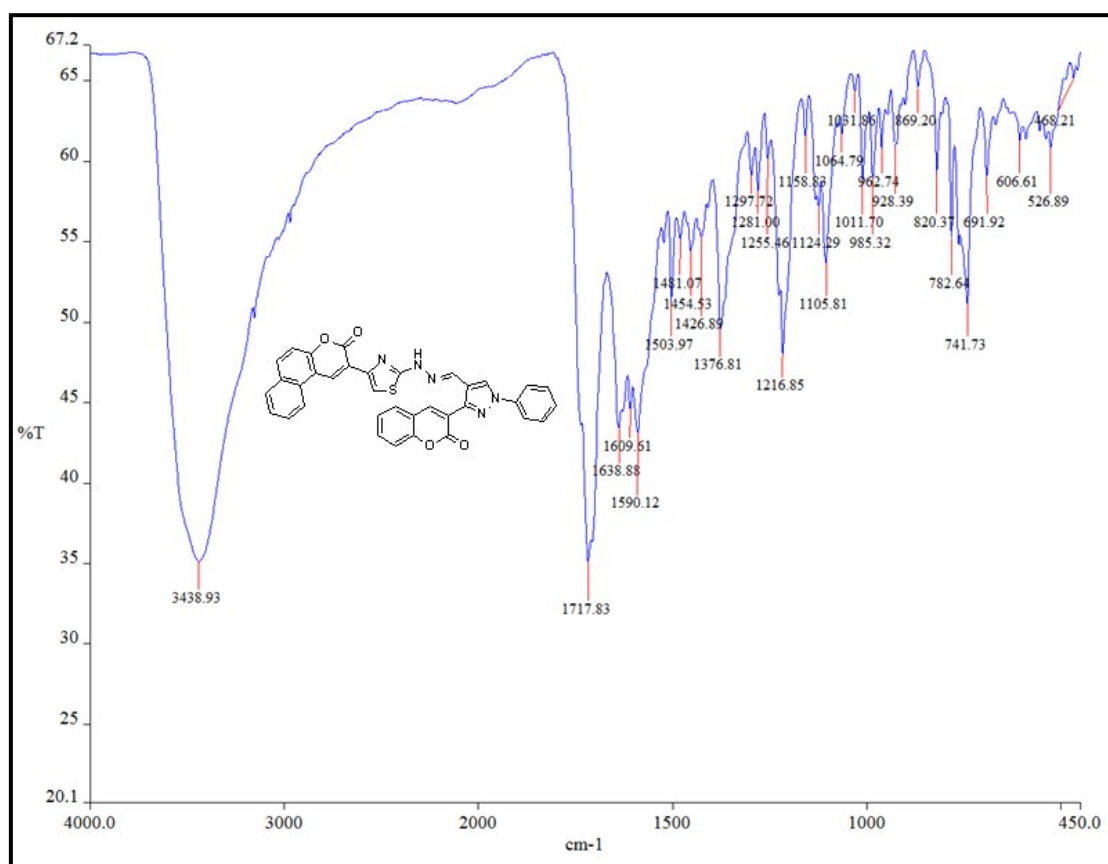
IR (KBr) spectrum of compound 5g



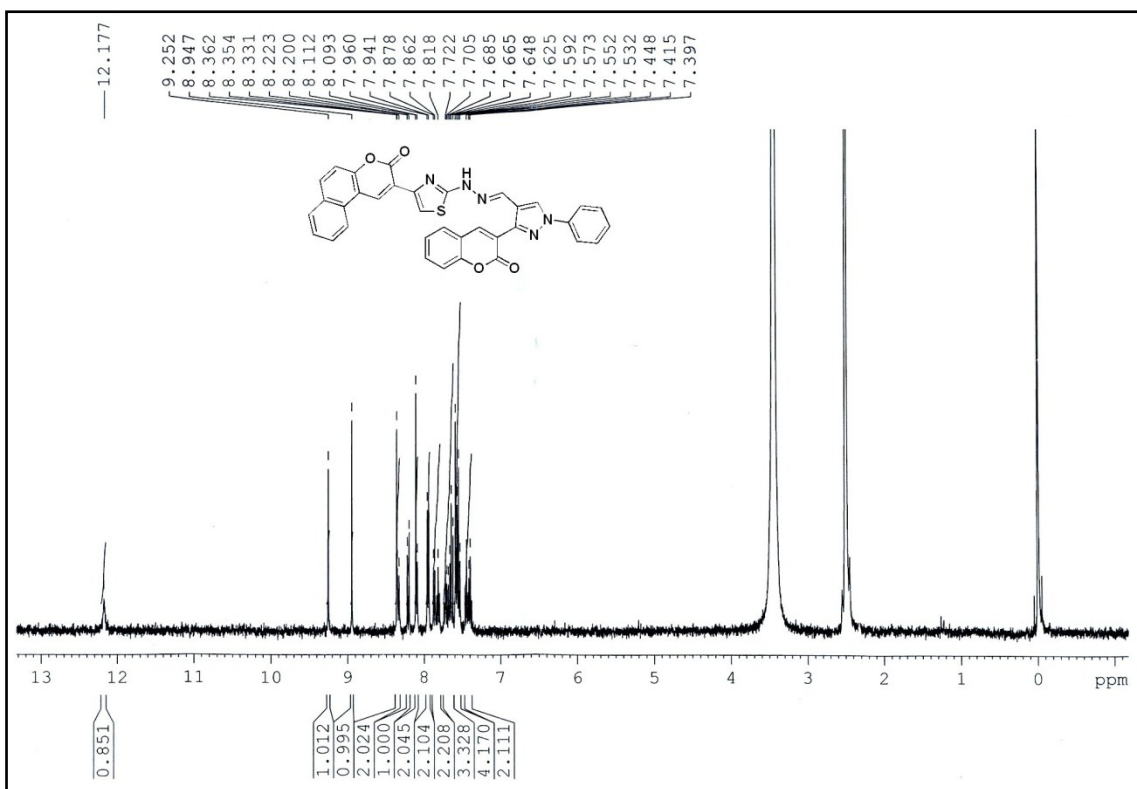
<sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5g



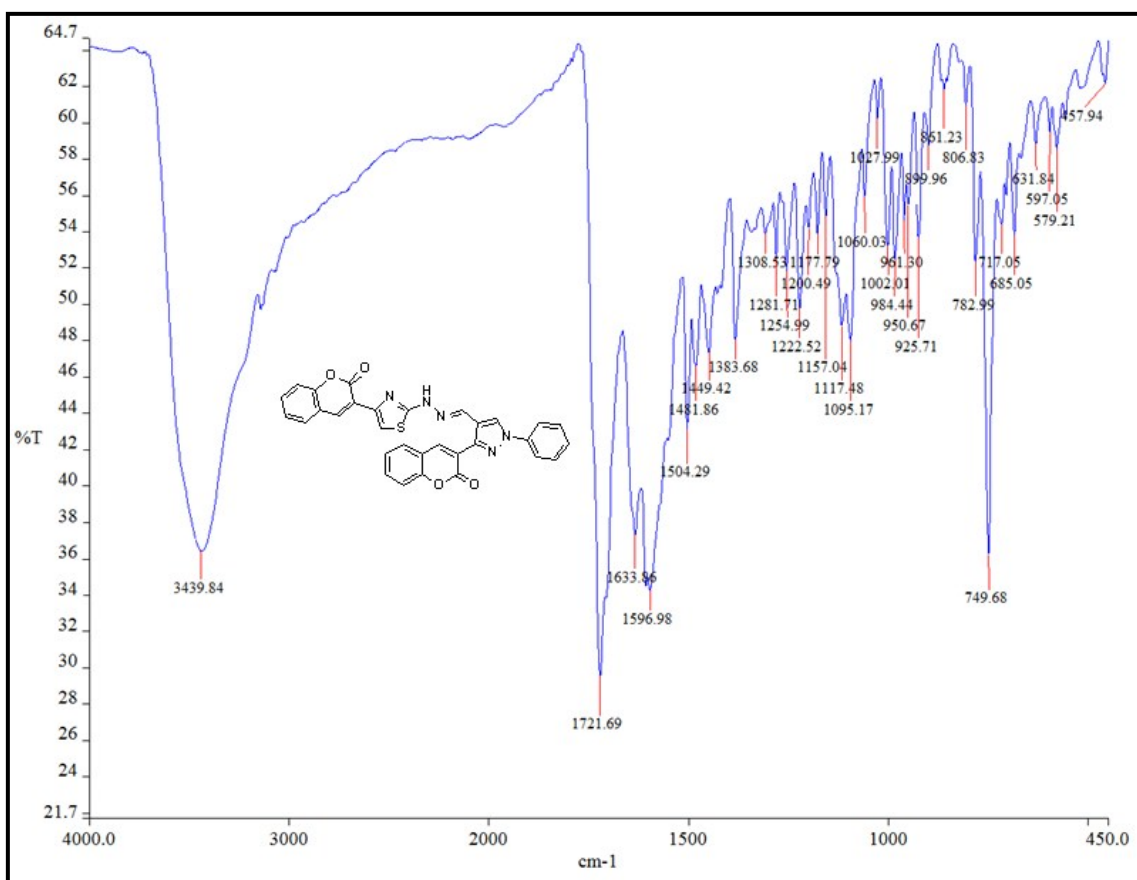
<sup>13</sup>C NMR (100 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5g



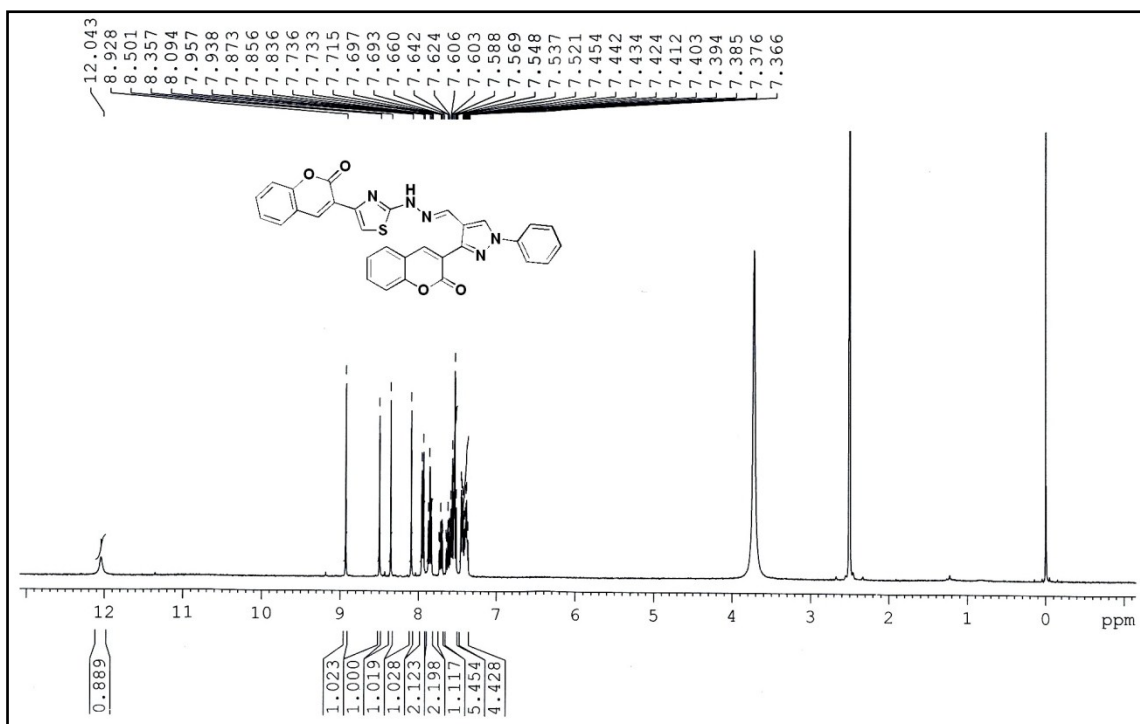
IR (KBr) spectrum of compound 5h



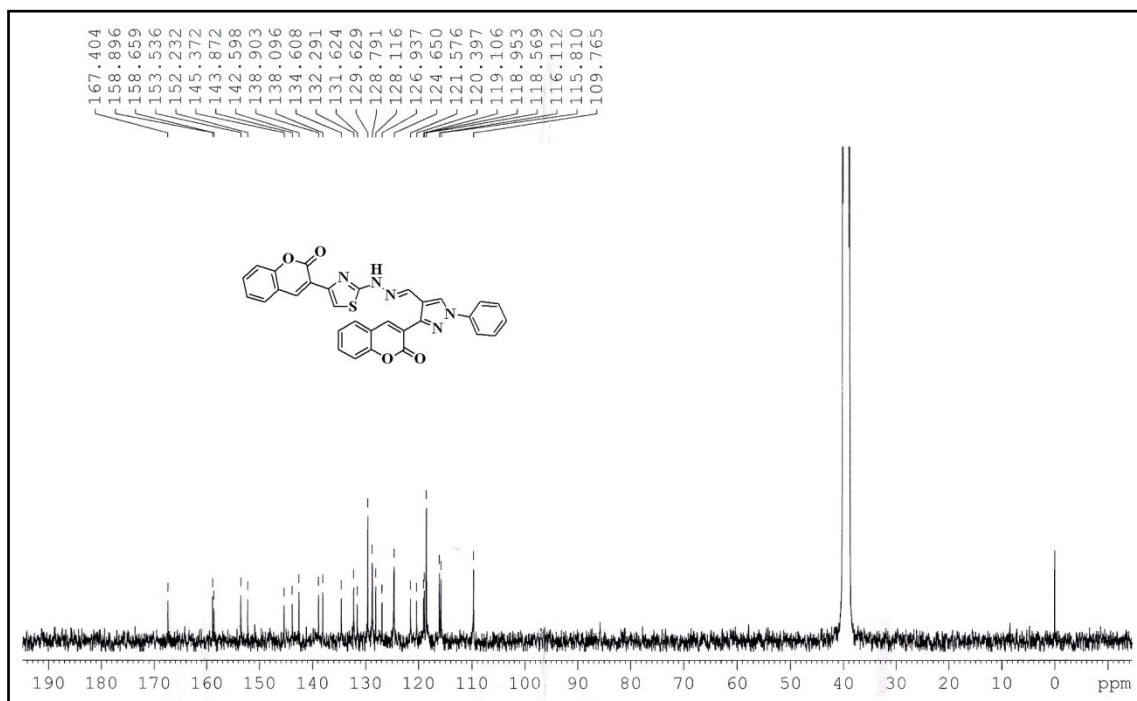
**<sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5h**



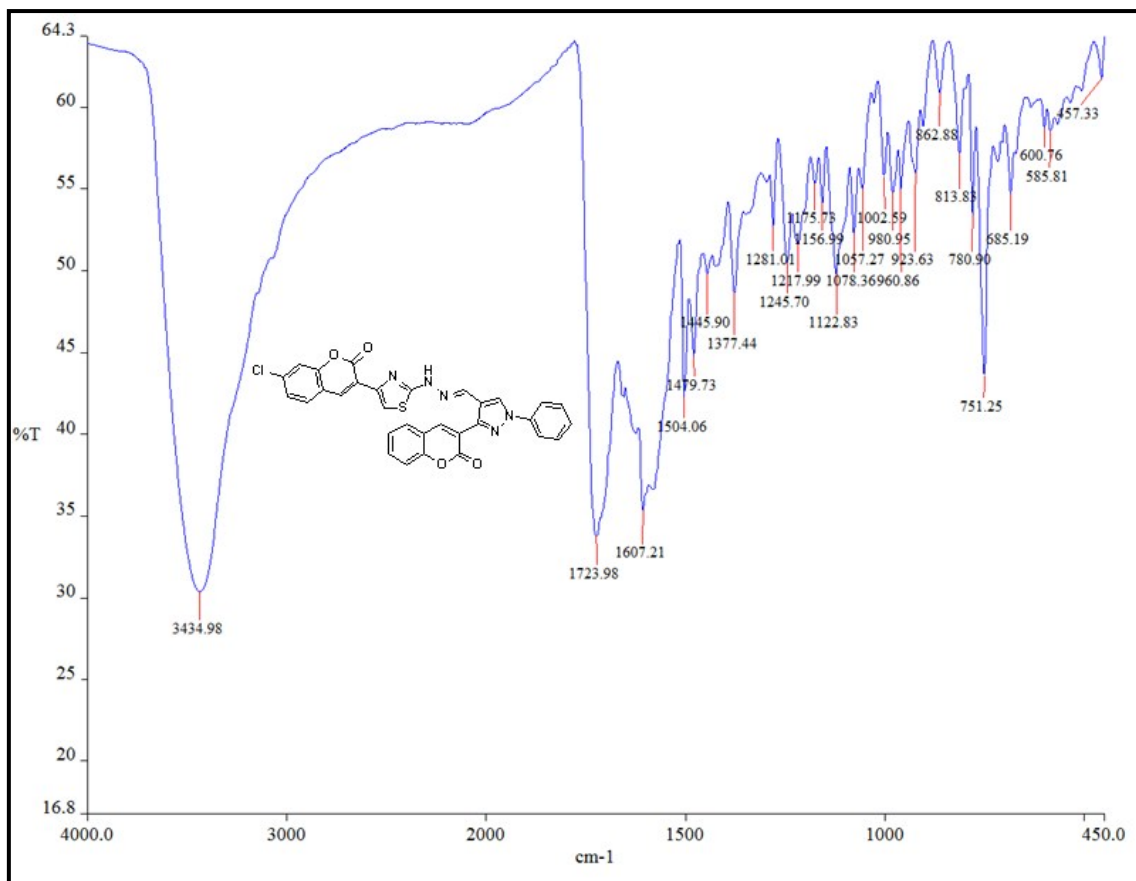
**IR (KBr) spectrum of compound 5i**



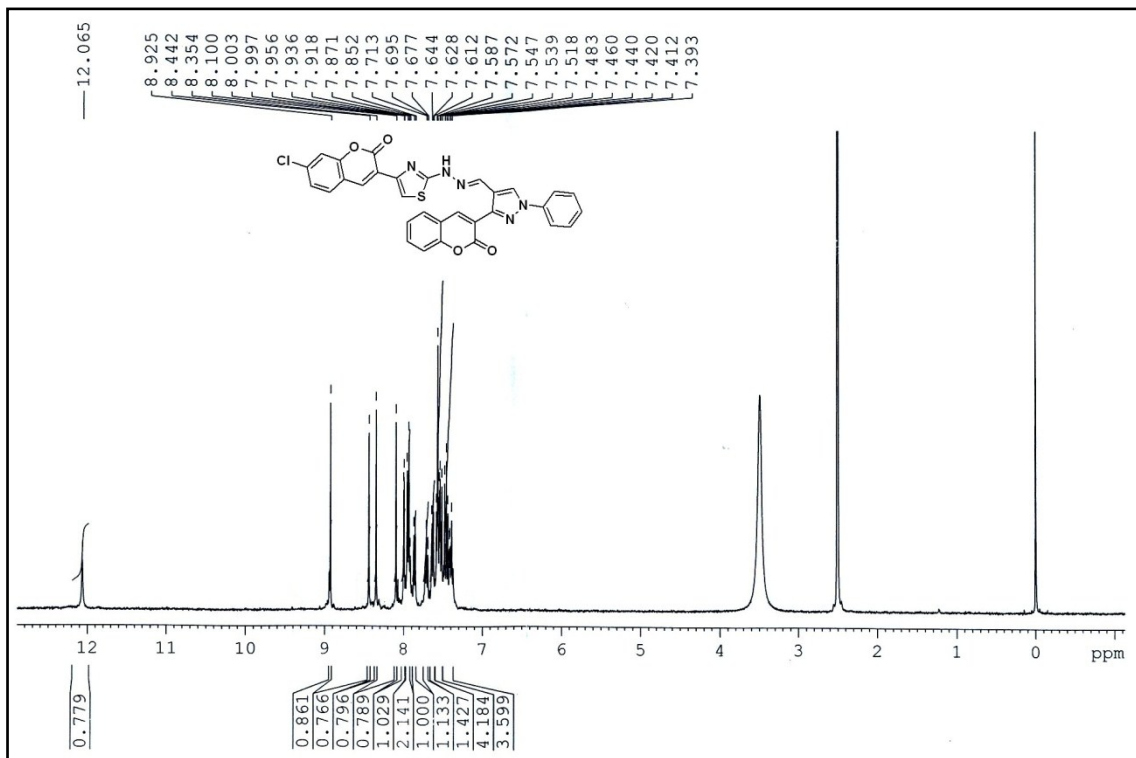
**<sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5i**



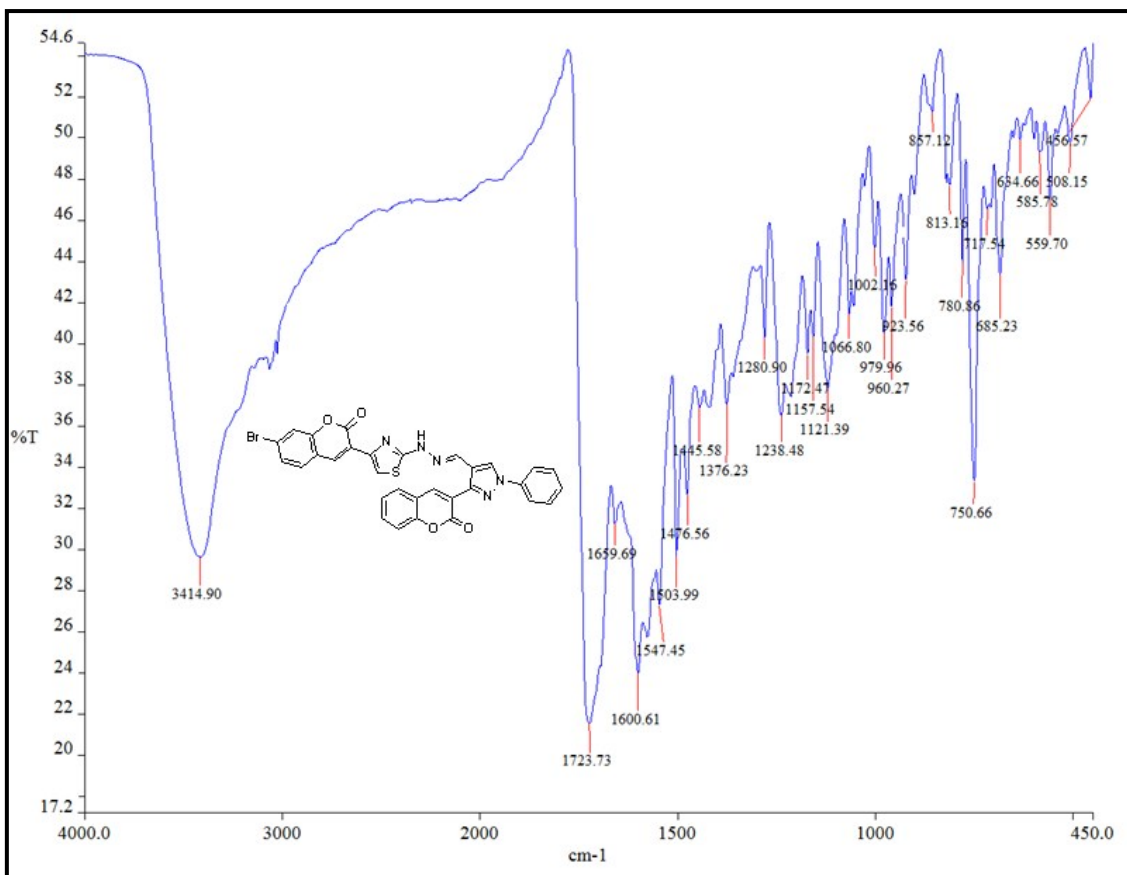
**<sup>13</sup>C NMR (100 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5i**



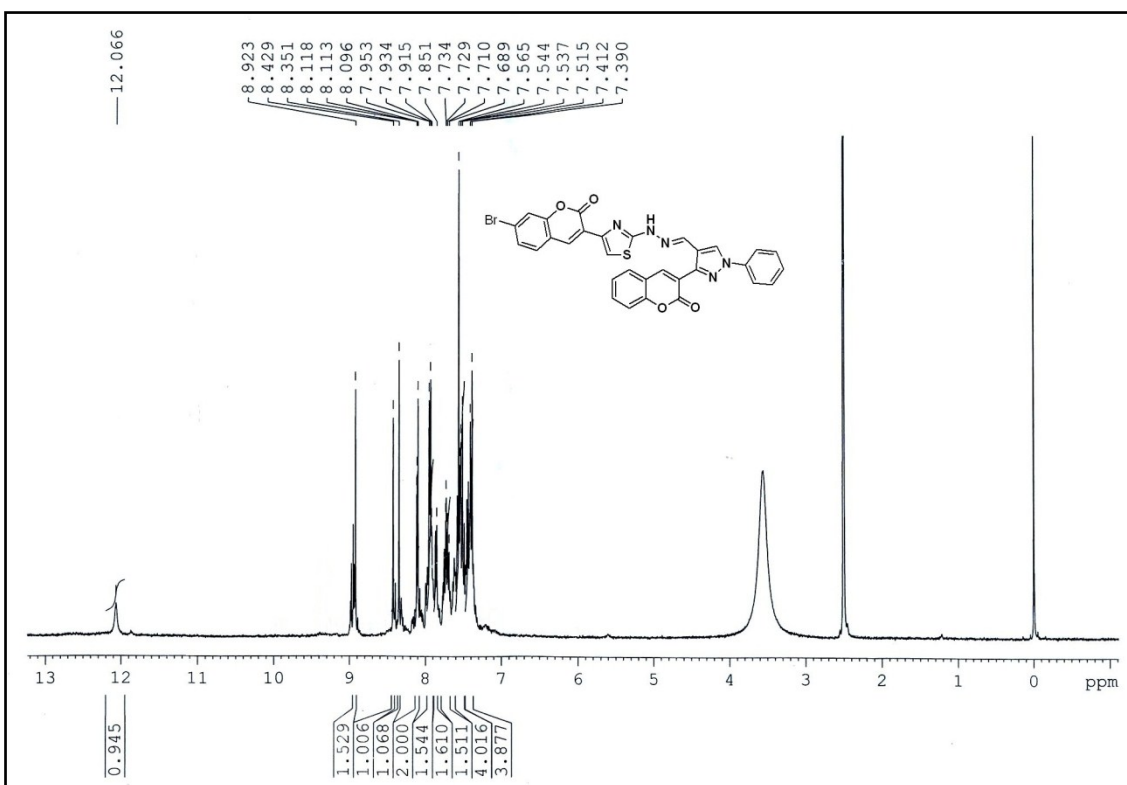
IR (KBr) spectrum of compound 5j



<sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5j

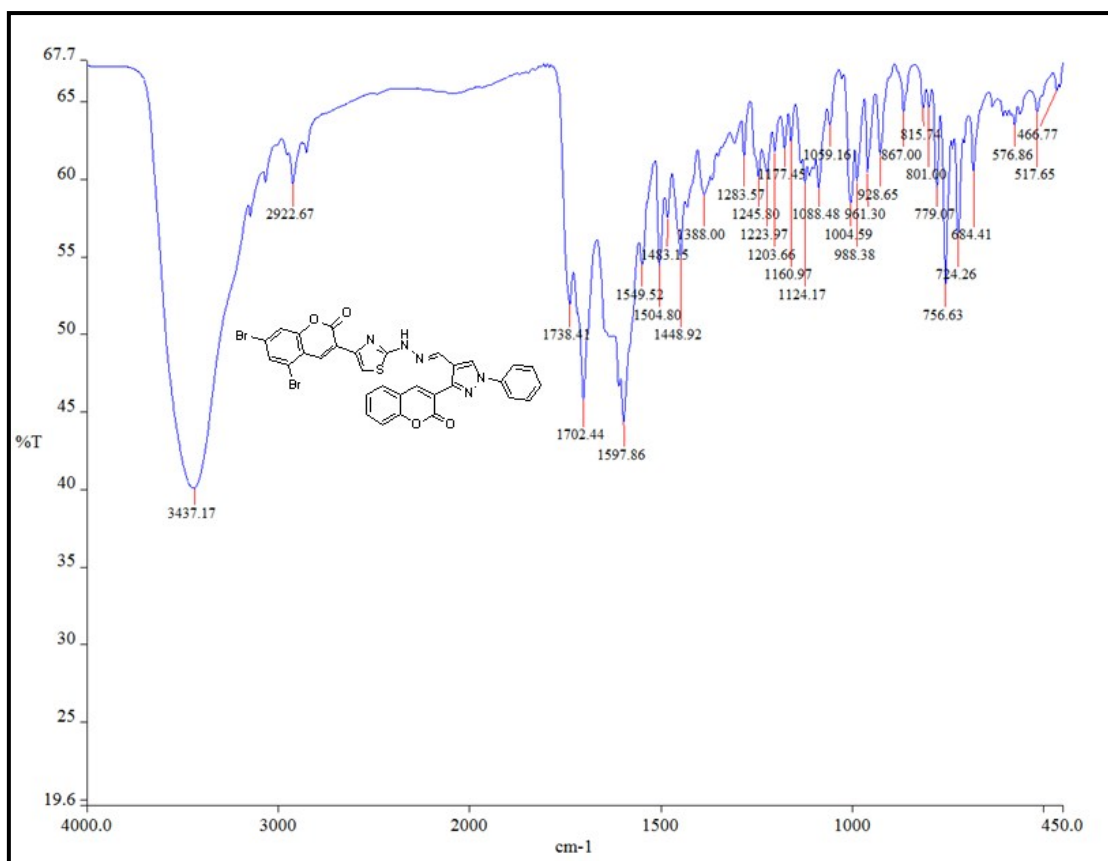


IR (KBr) spectrum of compound 5k

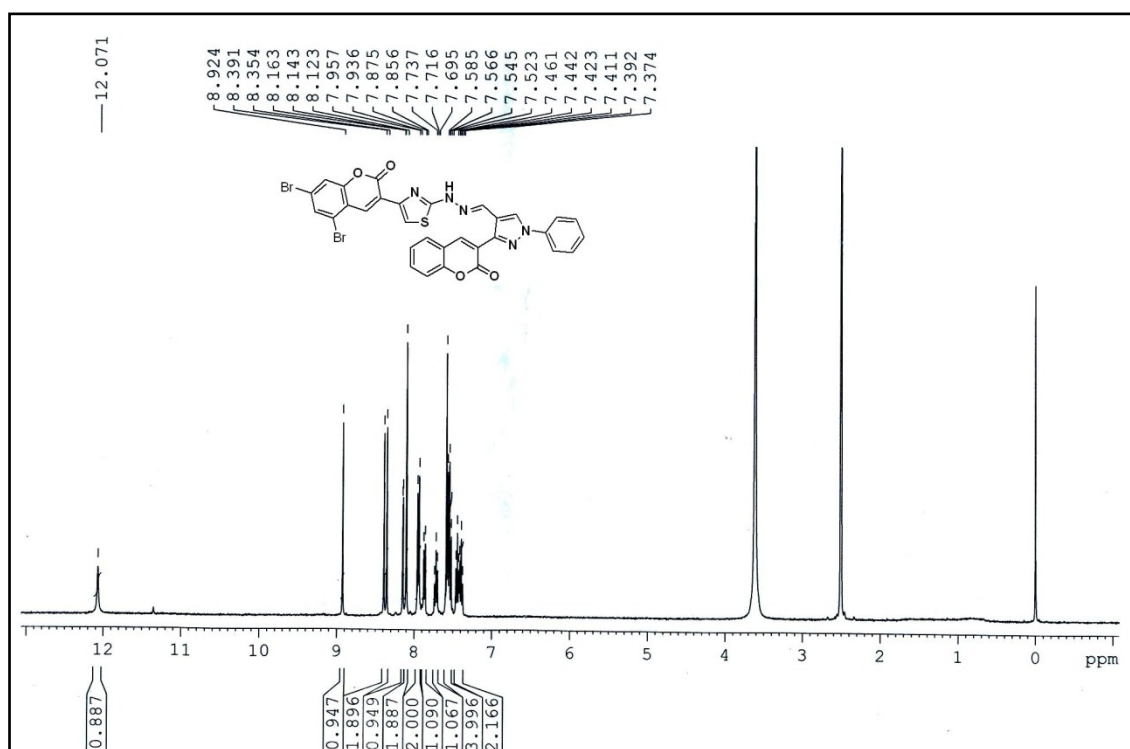


<sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 5k

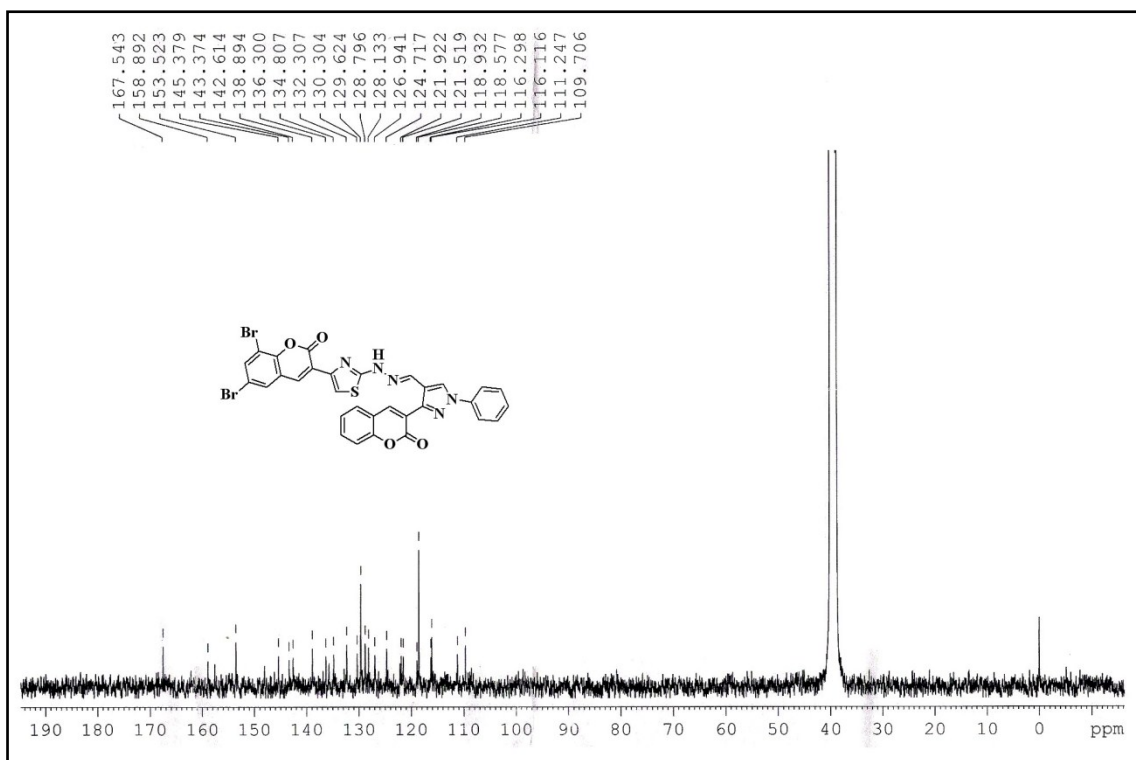




IR (KBr) spectrum of compound 51



<sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of compound 51



$^{13}\text{C}$  NMR (100 MHz,  $\text{DMSO-}d_6$ ) spectrum of compound 5l