Electronic Supplementary Material (ESI) for Nanoscale Advances. This journal is © The Royal Society of Chemistry 2023

Synthesis Of Bistriazolyl-Phenanthroline-Cu(II) Complex Immobilized On Nanomagnetic Iron Oxide as a Novel Green Catalyst For Synthesis Of Imidazoles Via Annulation Reactions

Raed H. Althomali ^a, Ebraheem Abdu Musad Saleh *, a, Riyadh Hasan Mohammed Ali ^c, Ikromjon Ilkhomidinovich Mamadoliev ^d, Montather F. Ramadan ^e, Ashwaq Talib Kareem ^f, Saurabh Aggarwal ^g, Salema K. Hadrawi ^h

^aDepartment of Chemistry, Prince Sattam Bin Abdulaziz University, College of Arts and Science, Wadi Al-Dawasir 11991, Saudi Arabia.

*Corresponding author, Email: eabdumusadsaleh@gmail.com

Copies of NMR spectra:

^b Department of Medical Laboratory, Al-Rafidain University College, Iraq-Baghdad.

^c Teaching Assistant, Research scholar, Department of Medical Chemistry, Samarkand State Medical Institute, Samarkand, Uzbekistan.

^d Teaching Assistant, Department of Anatomy, Tashkent State Dental Institute, Tashkent, Uzbekistan.

^e College of Dentistry, Al-Ayen University, Thi-Qar, Iraq.

^f College of Pharmacy/ National University of Science and Technology, Dhi Qar, Iraq.

^g Department of Mechanical Engineering, Uttaranchal Institute of Technology, Uttaranchal University, Dehradun-248007, India.

^h Refrigeration and Air-conditioning Technical Engineering Department, College of Technical Engineering, The Islamic University, Najaf, Iraq.

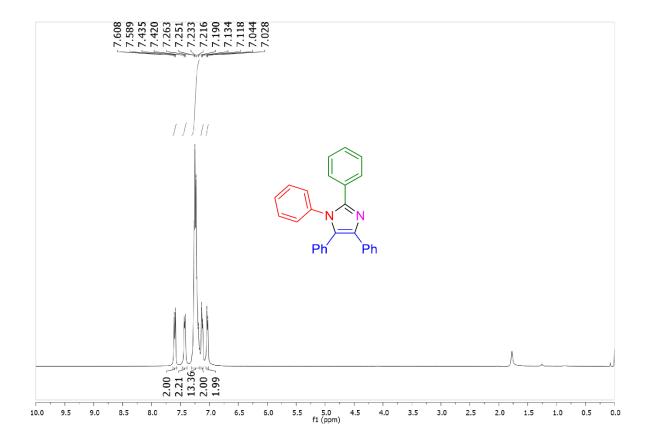


Figure S. 1

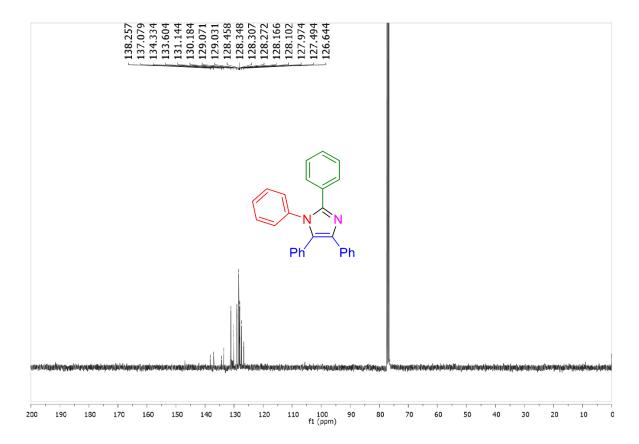


Figure S. 2

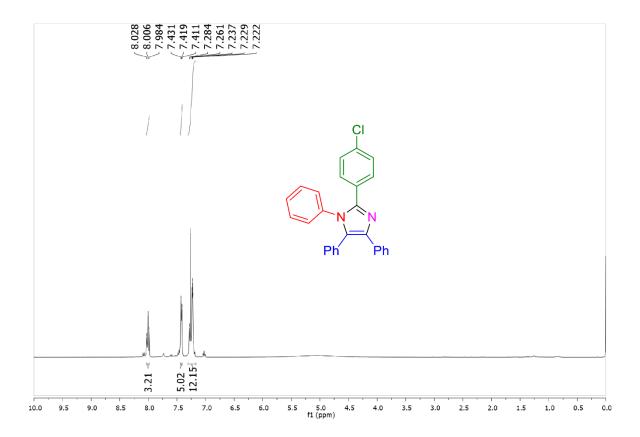


Figure S. 3

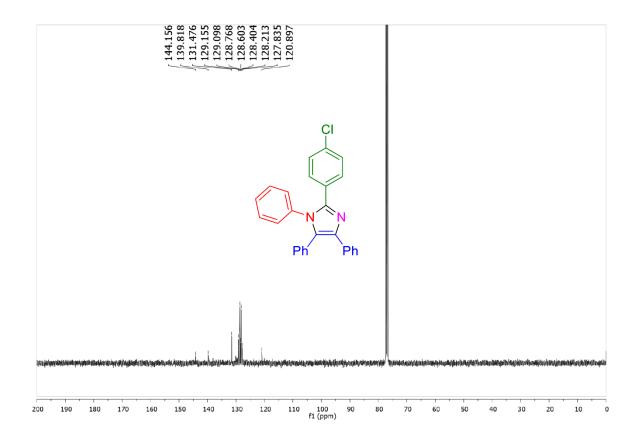


Figure S. 4

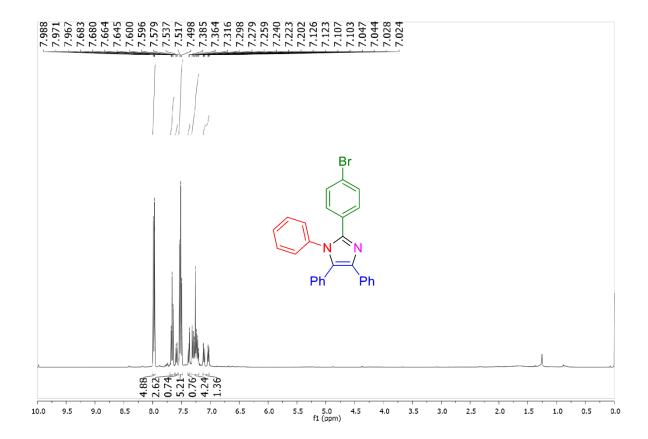


Figure S. 5

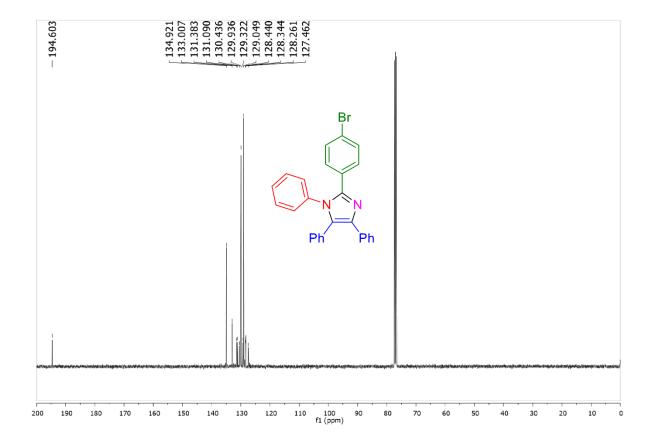


Figure S. 6

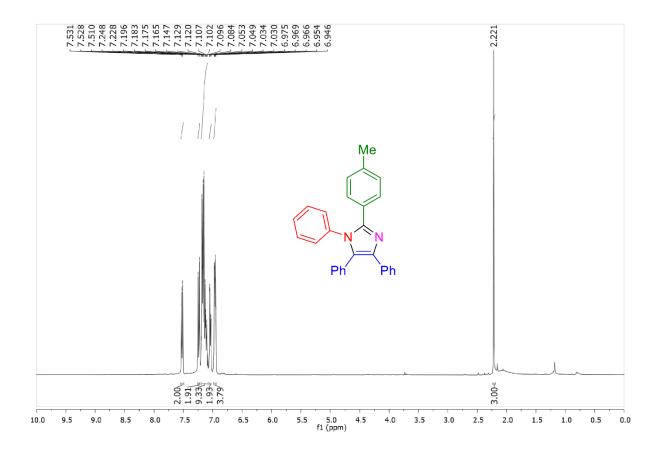


Figure S. 7

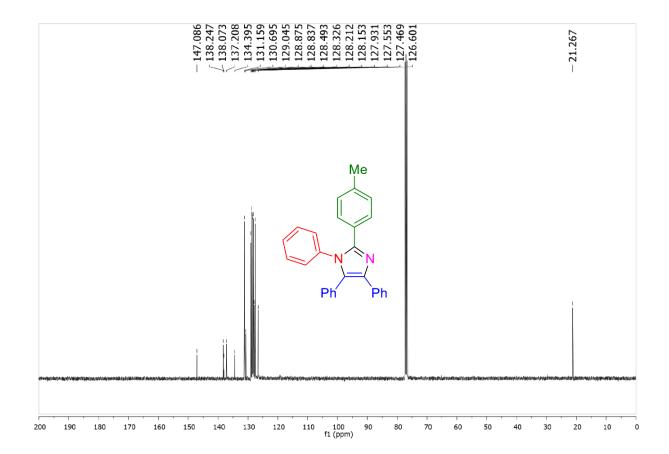


Figure S. 8

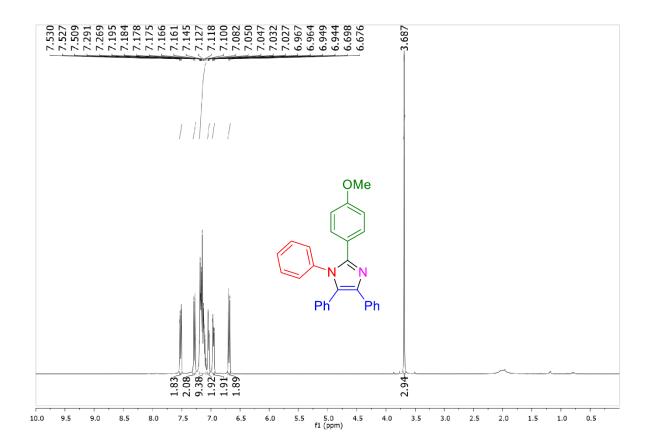


Figure S. 9

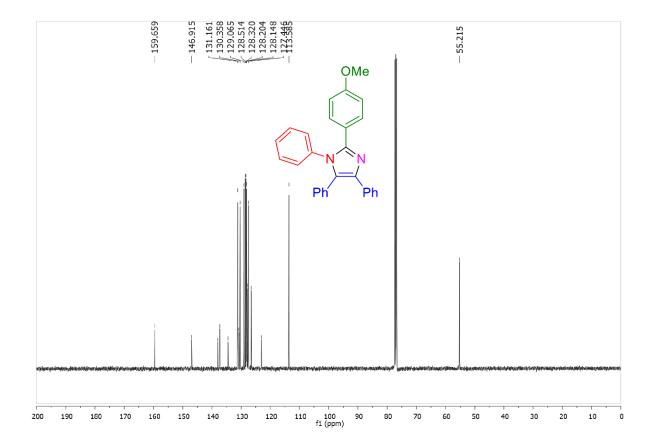


Figure S. 10

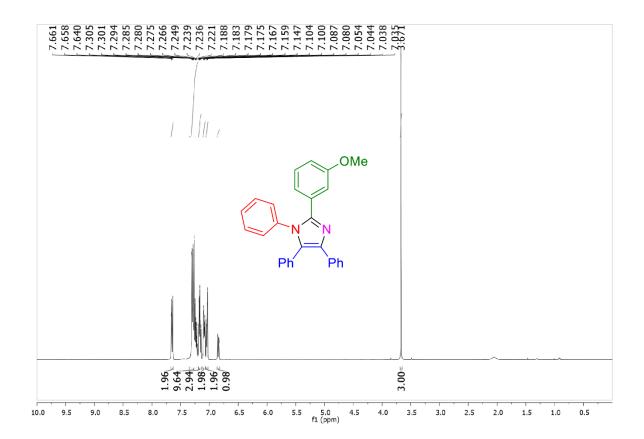


Figure S. 11

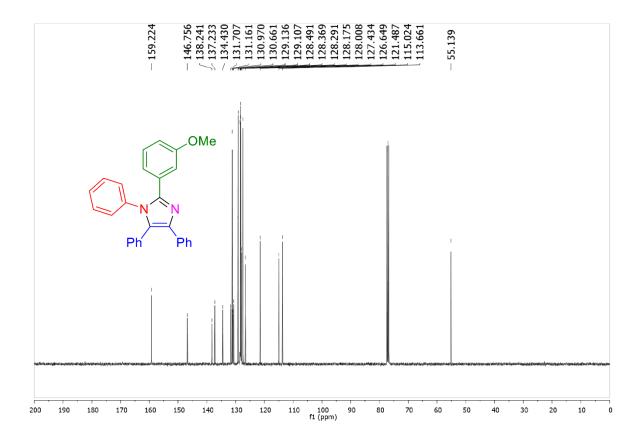


Figure S. 12

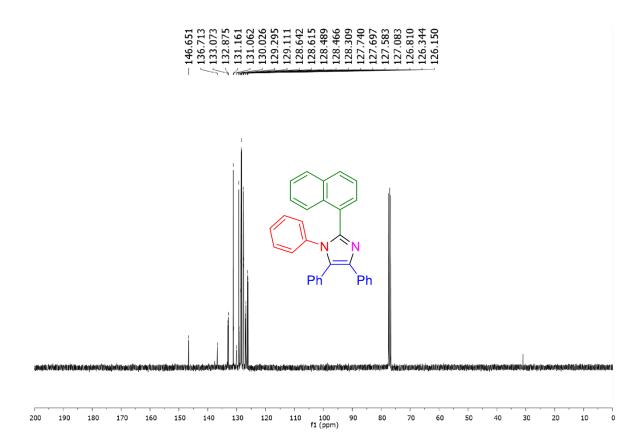


Figure S. 13

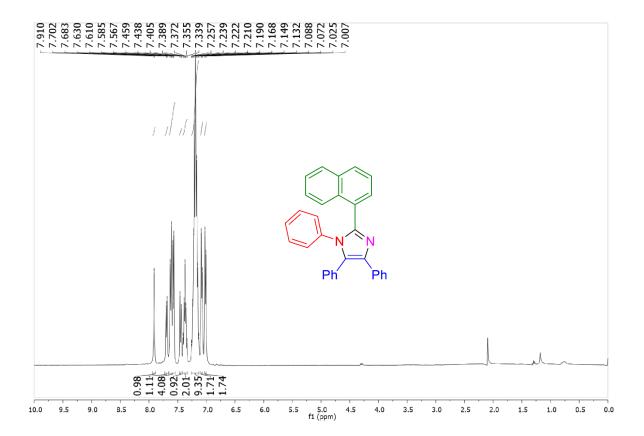


Figure S. 14

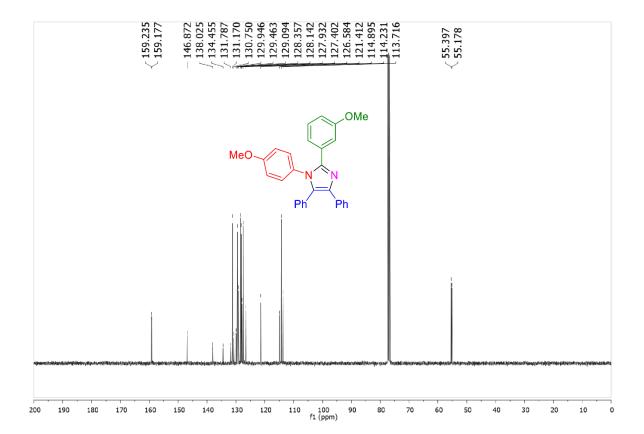


Figure S. 15

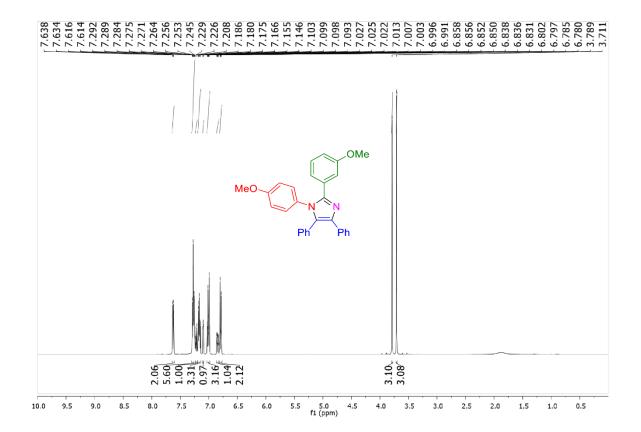


Figure S. 16

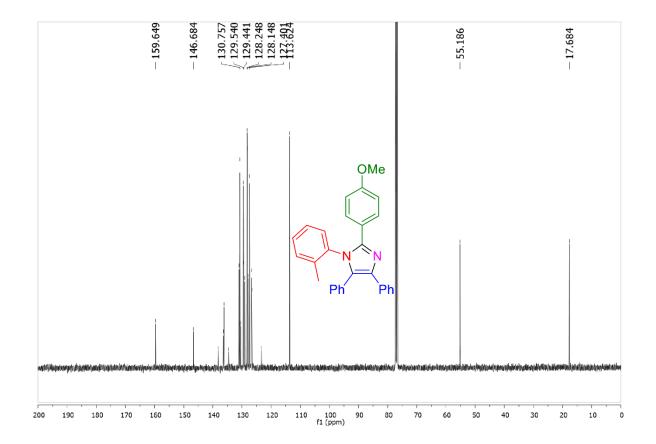


Figure S. 17

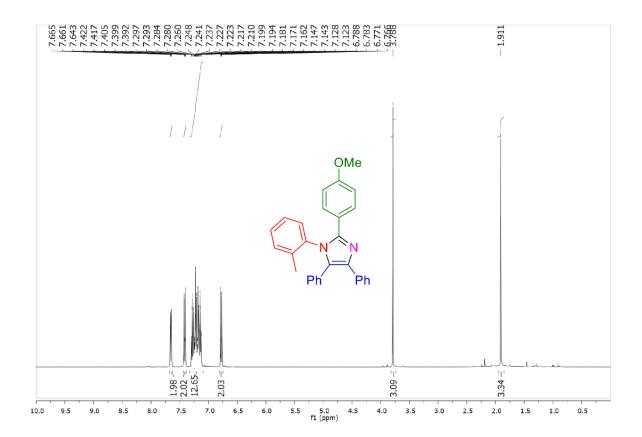


Figure S. 18

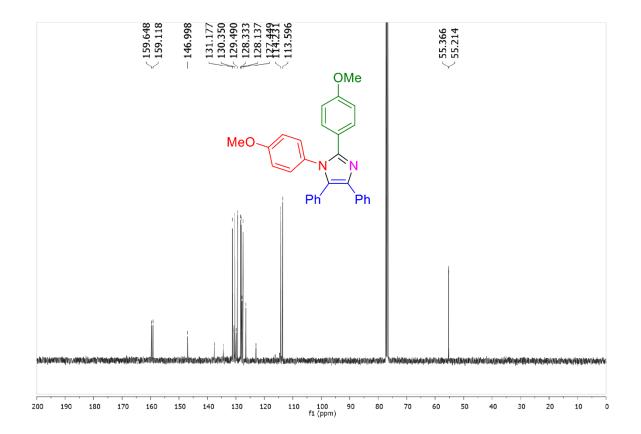


Figure S. 19

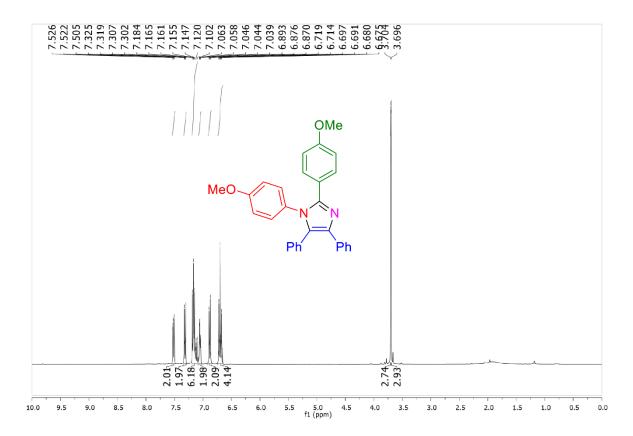


Figure S. 20

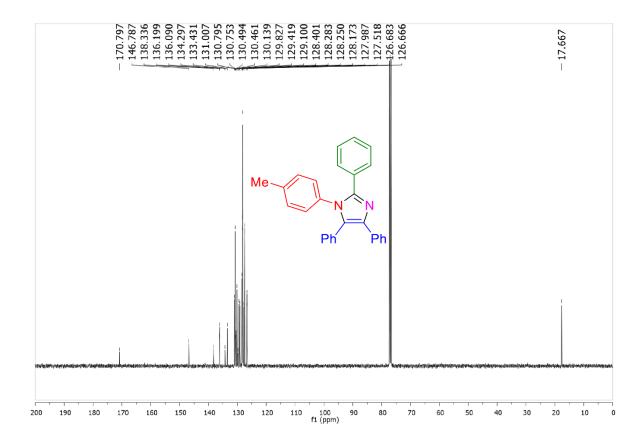


Figure S. 21

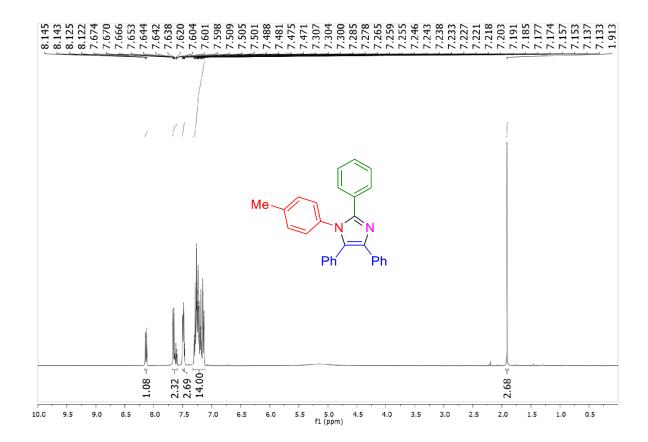


Figure S. 22

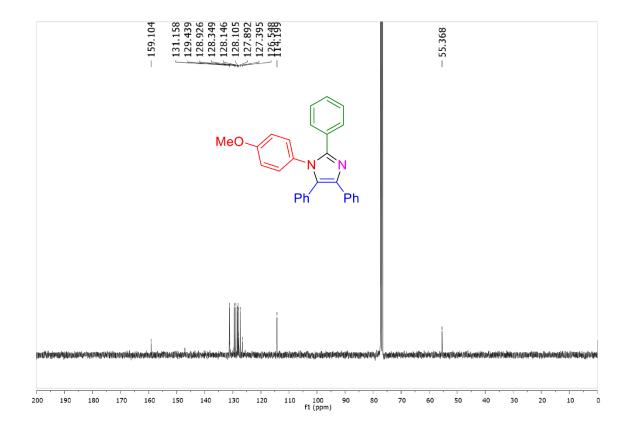


Figure S. 23

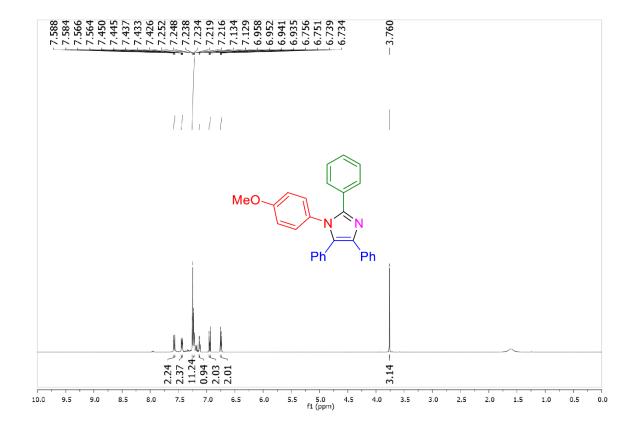


Figure S. 24