

Supporting information

Title: Copper(II)-Catalyzed Carbon-Carbon Triple Bond cleavage of Internal Alkynes for the Synthesis of Annulated Indolizines

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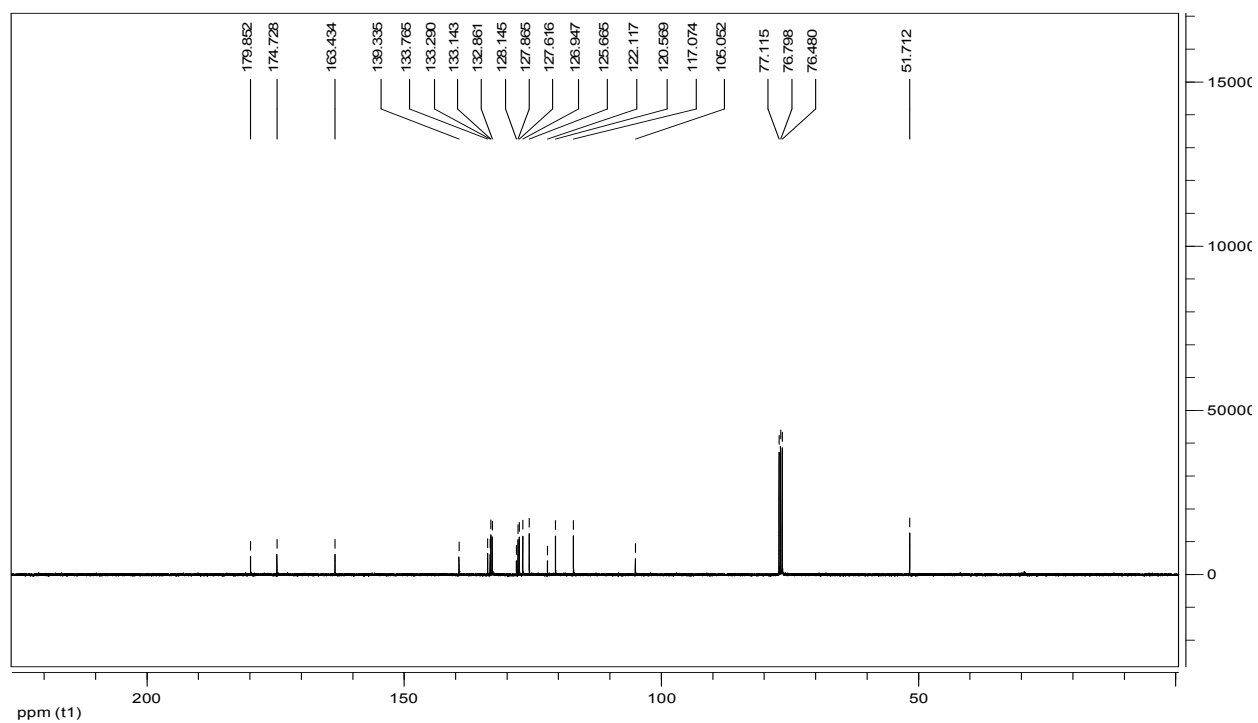
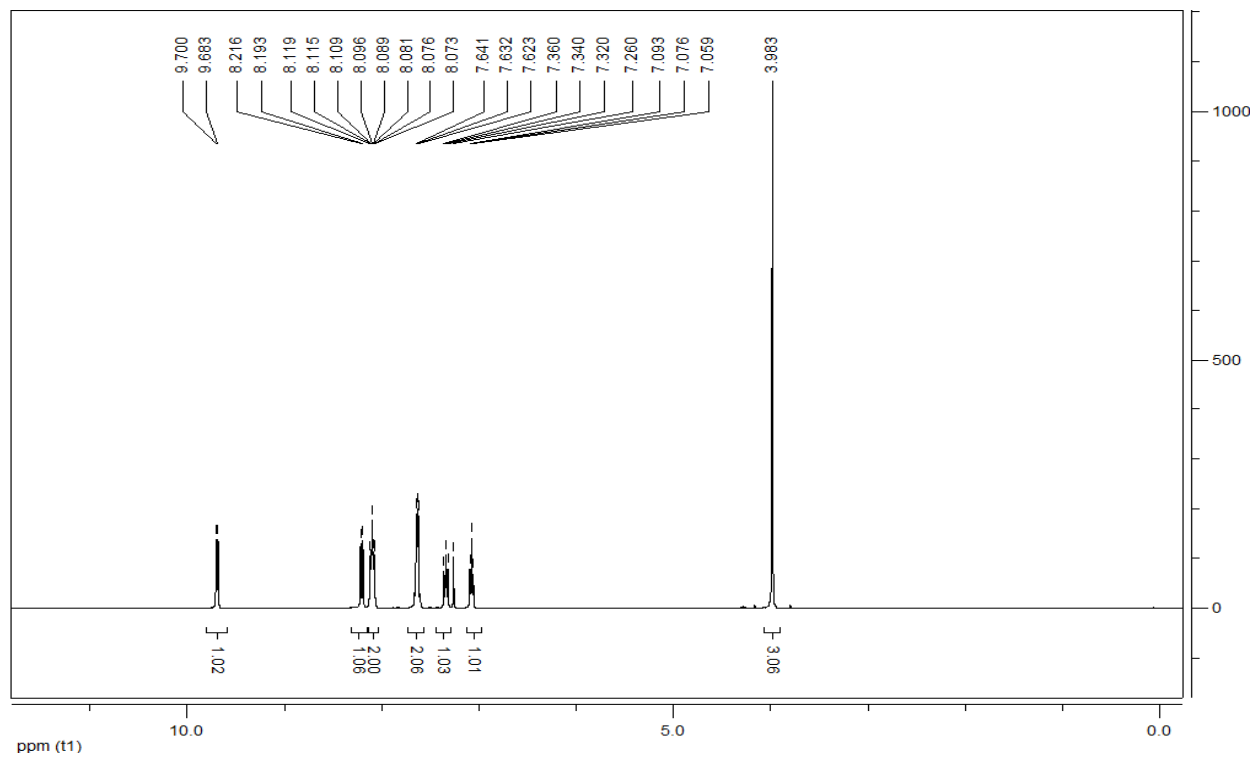
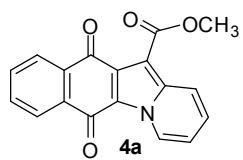
^a*Jiangsu Key Laboratory of Green Synthetic for Functional Materials and School of Chemistry and Chemical Engineering, Jiangsu Normal University, Xuzhou 221116, Jiangsu, P. R. China*

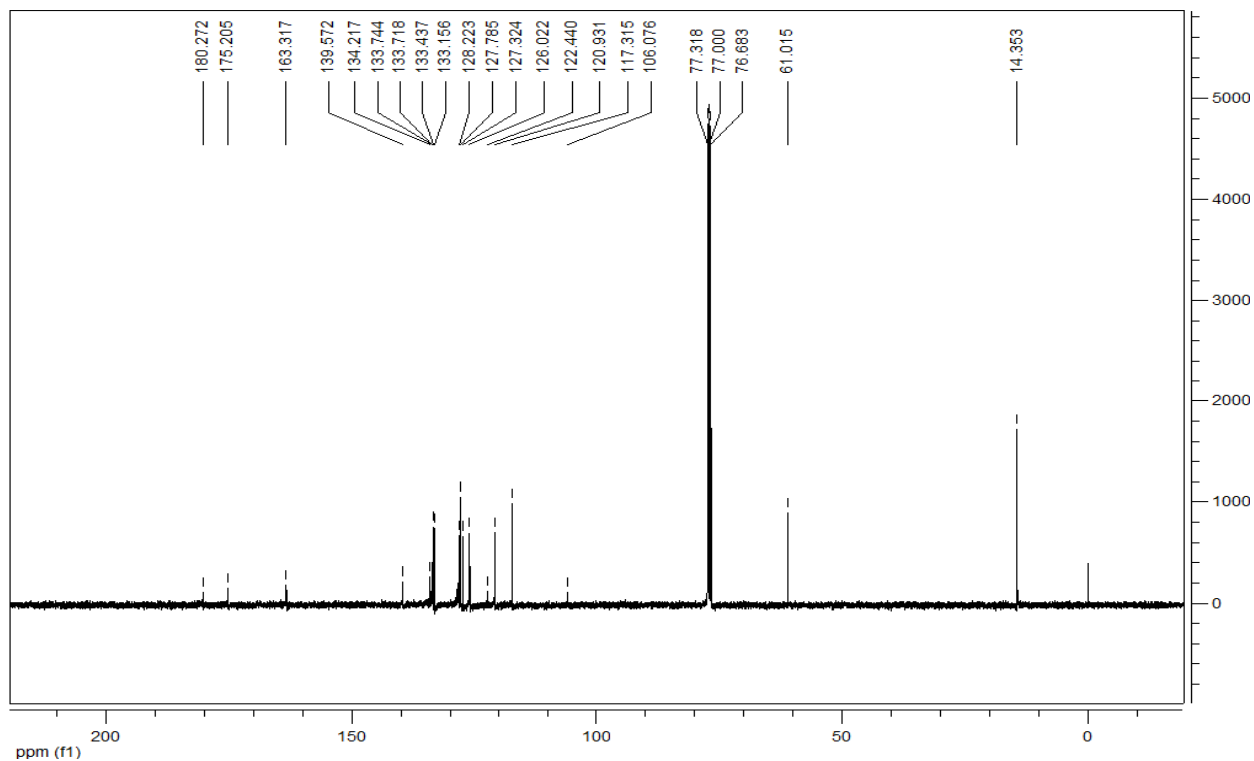
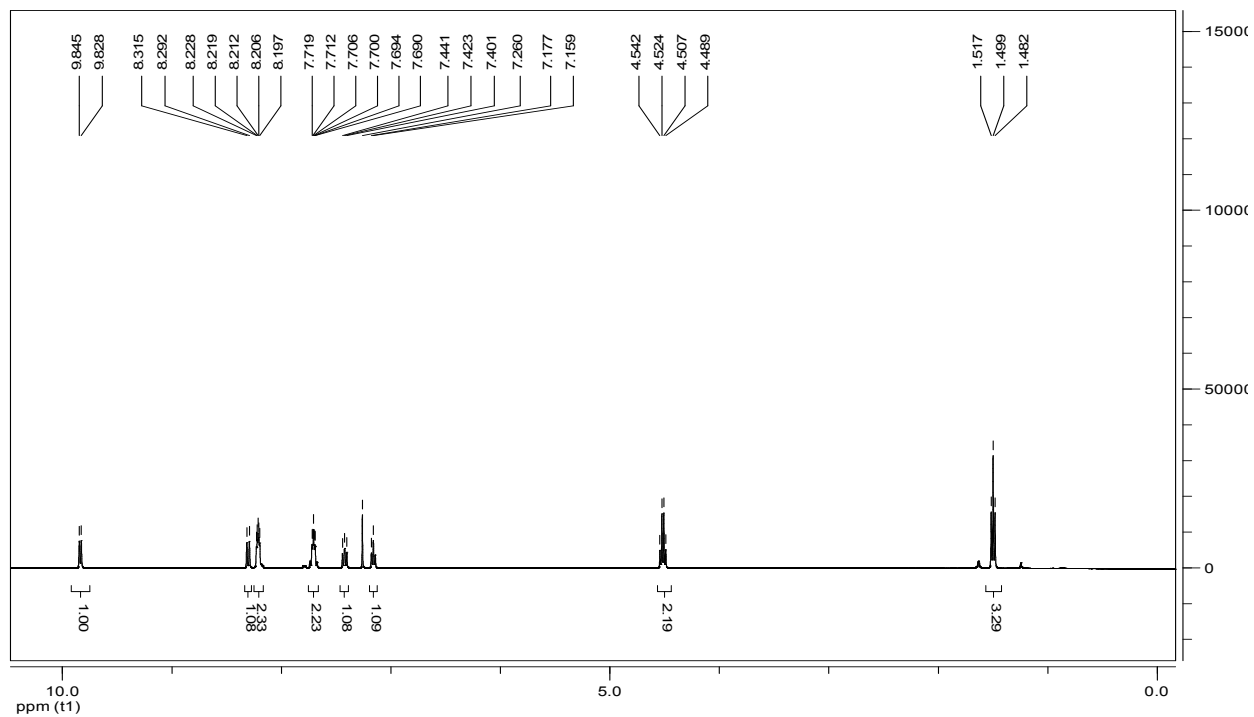
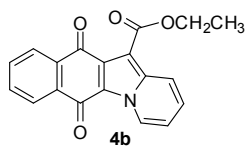
^b*Jiangsu Key Laboratory for Chemistry of Low-Dimensional Materials, School of Chemistry and Chemical Engineering, Huaiyin Normal University, Huaian 223300, Jiangsu, P. R. China*

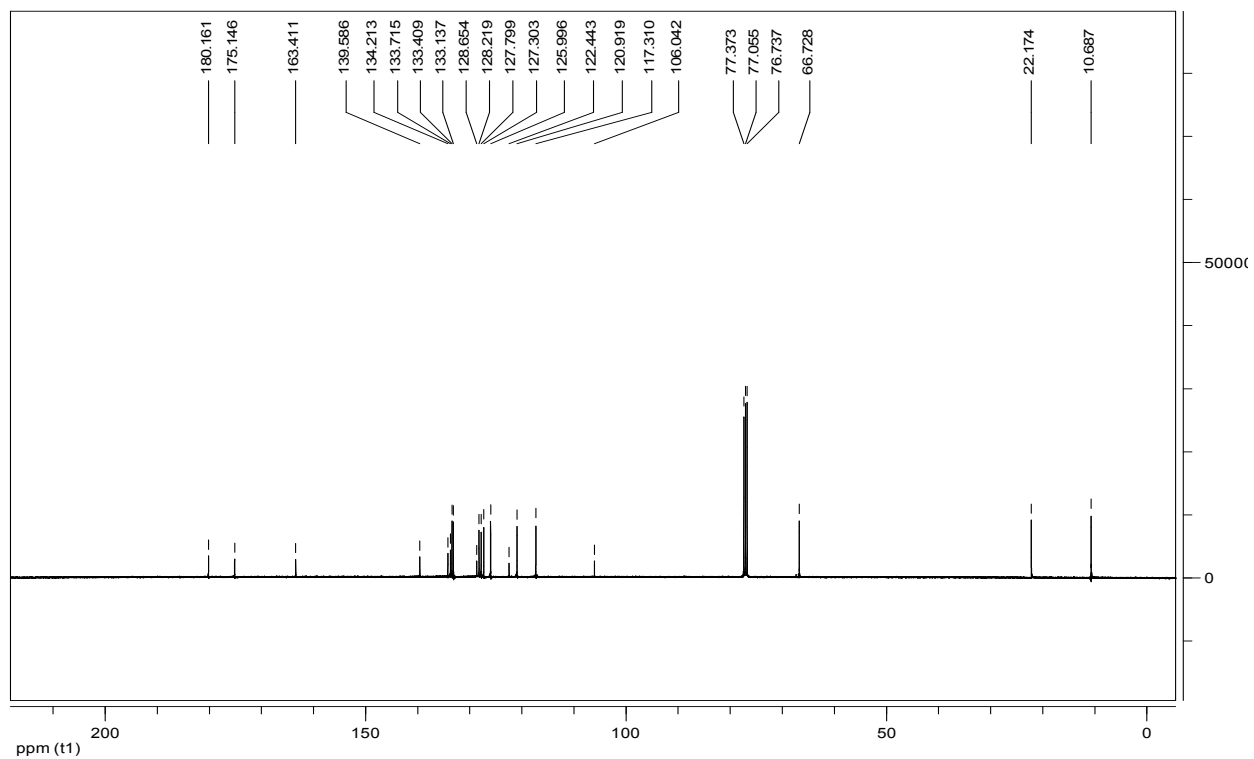
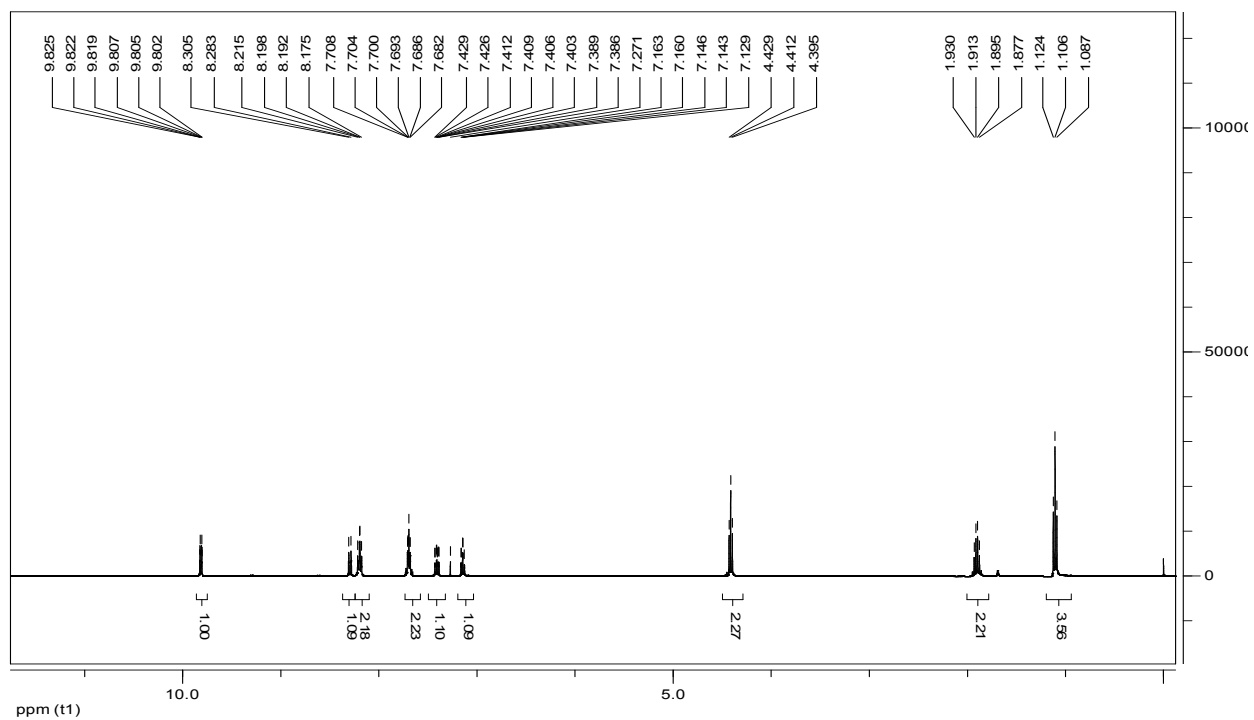
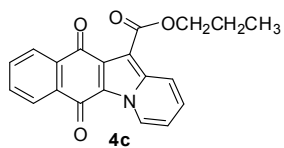
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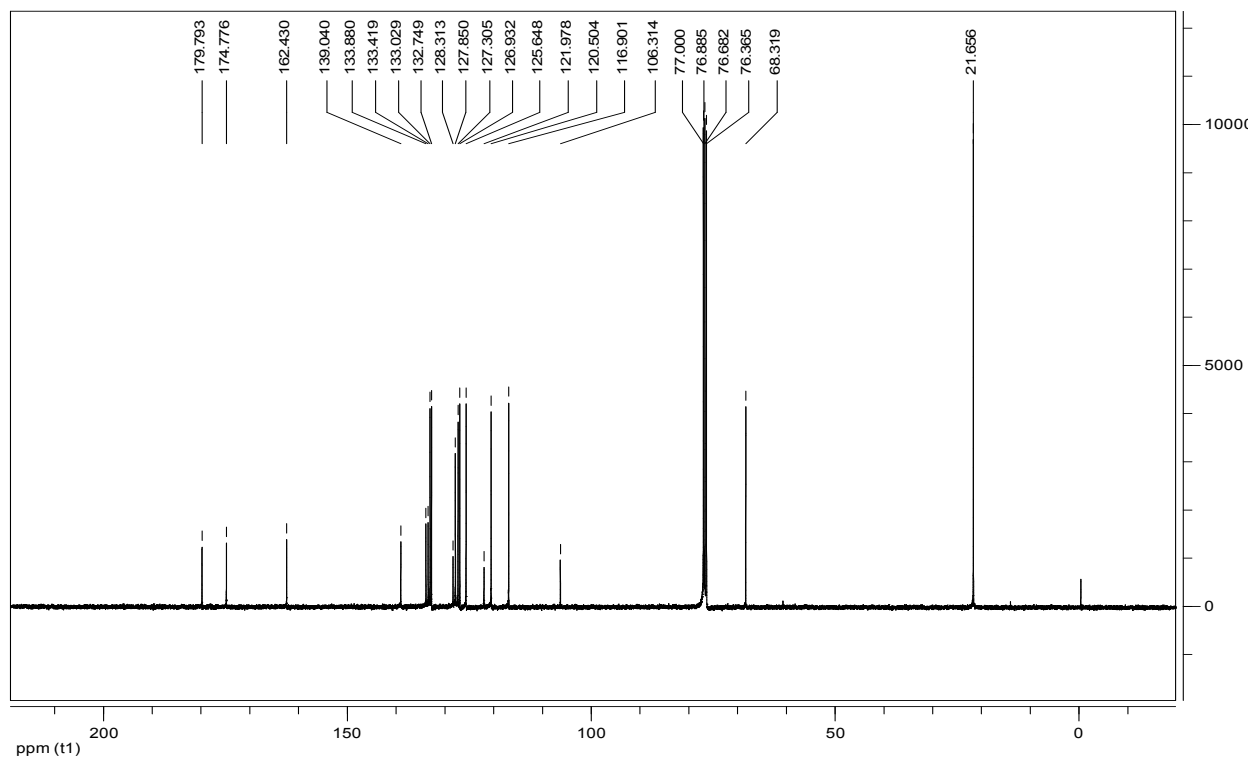
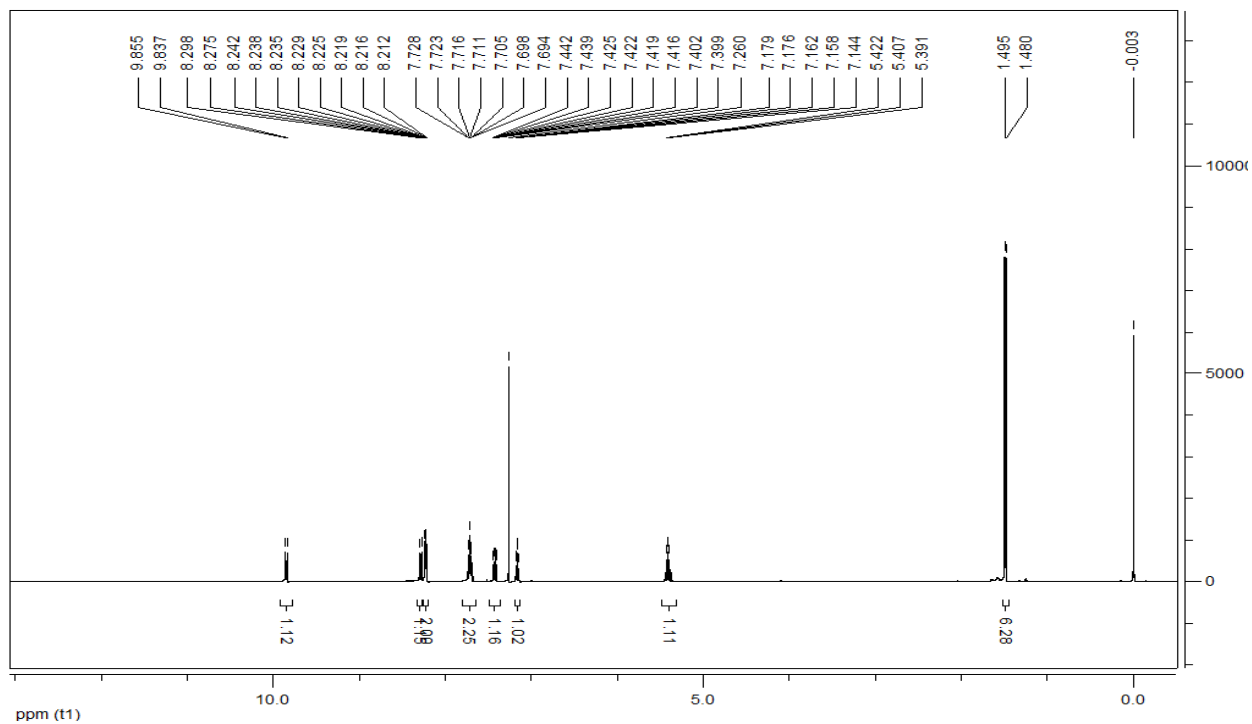
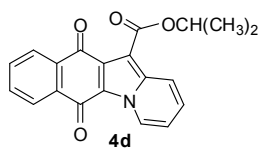
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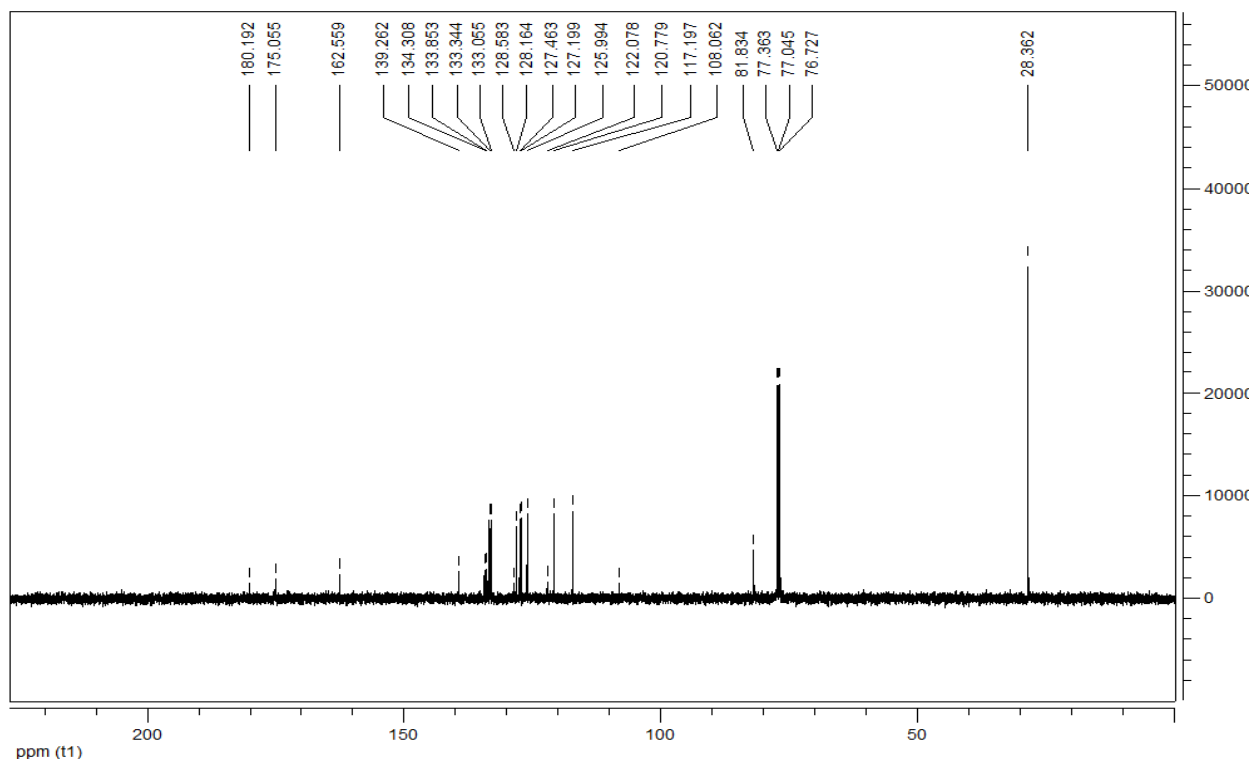
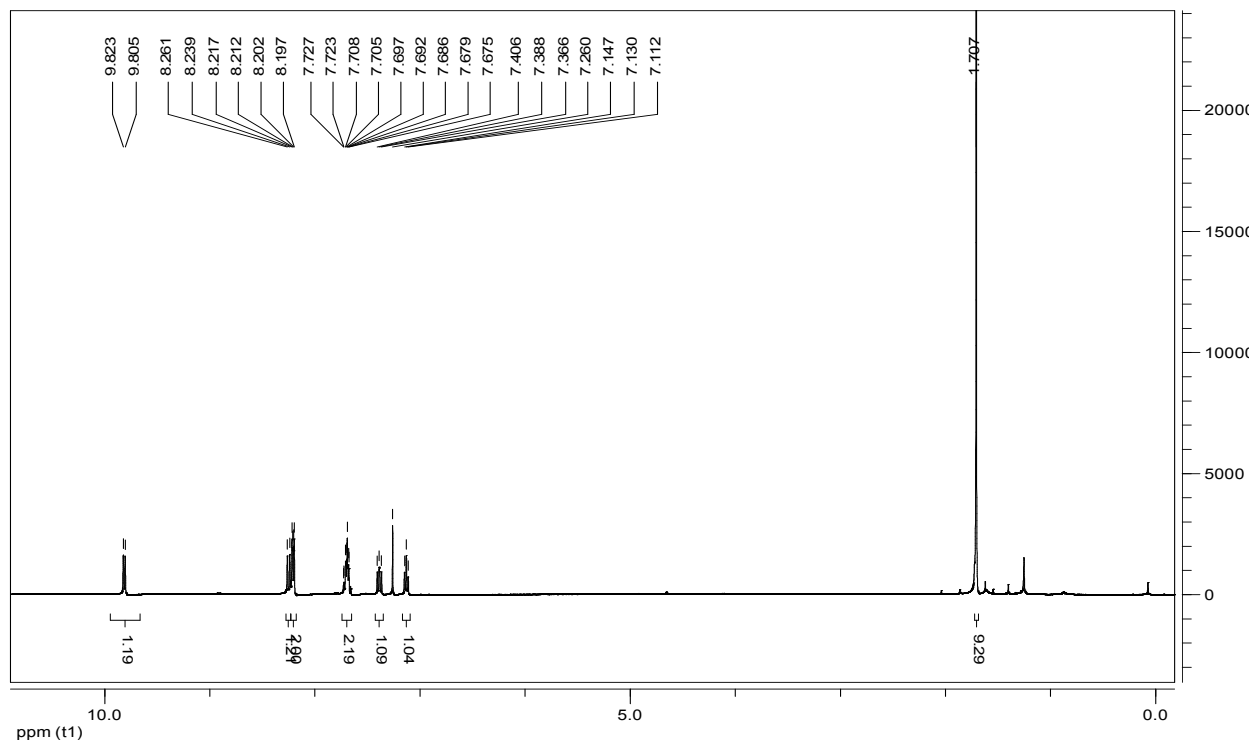
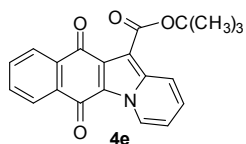
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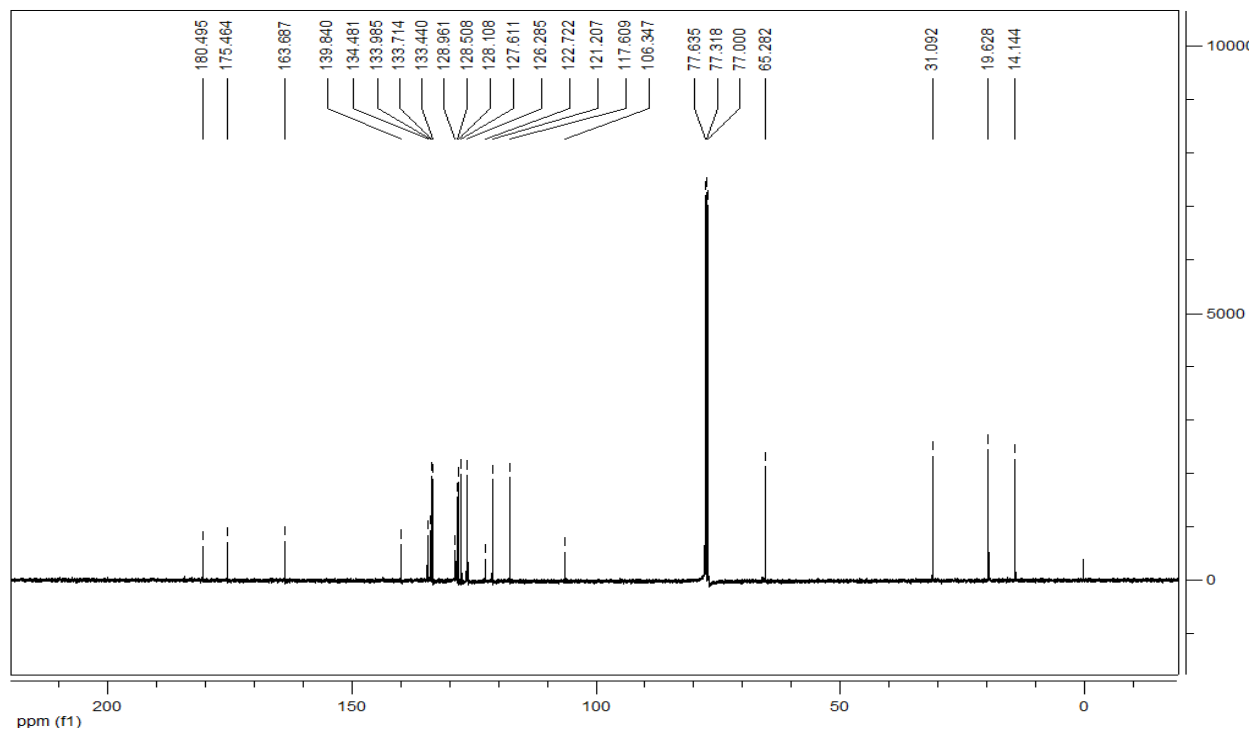
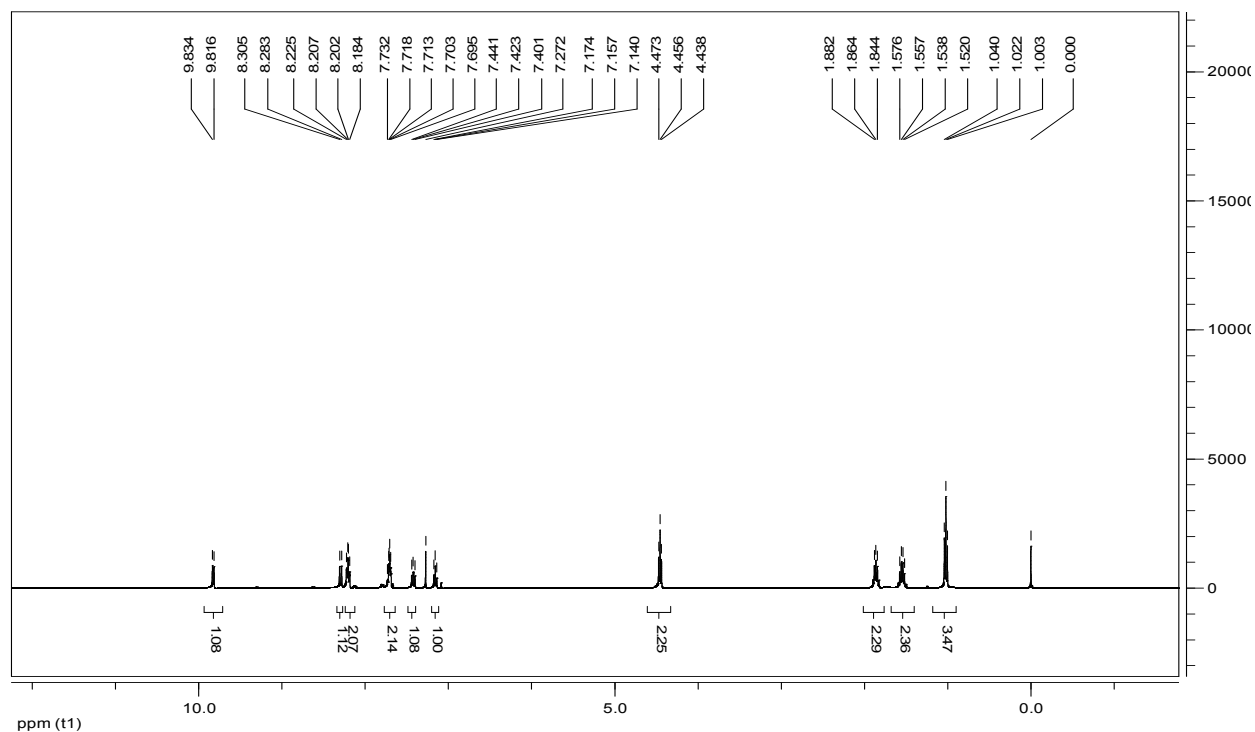
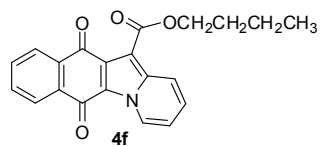


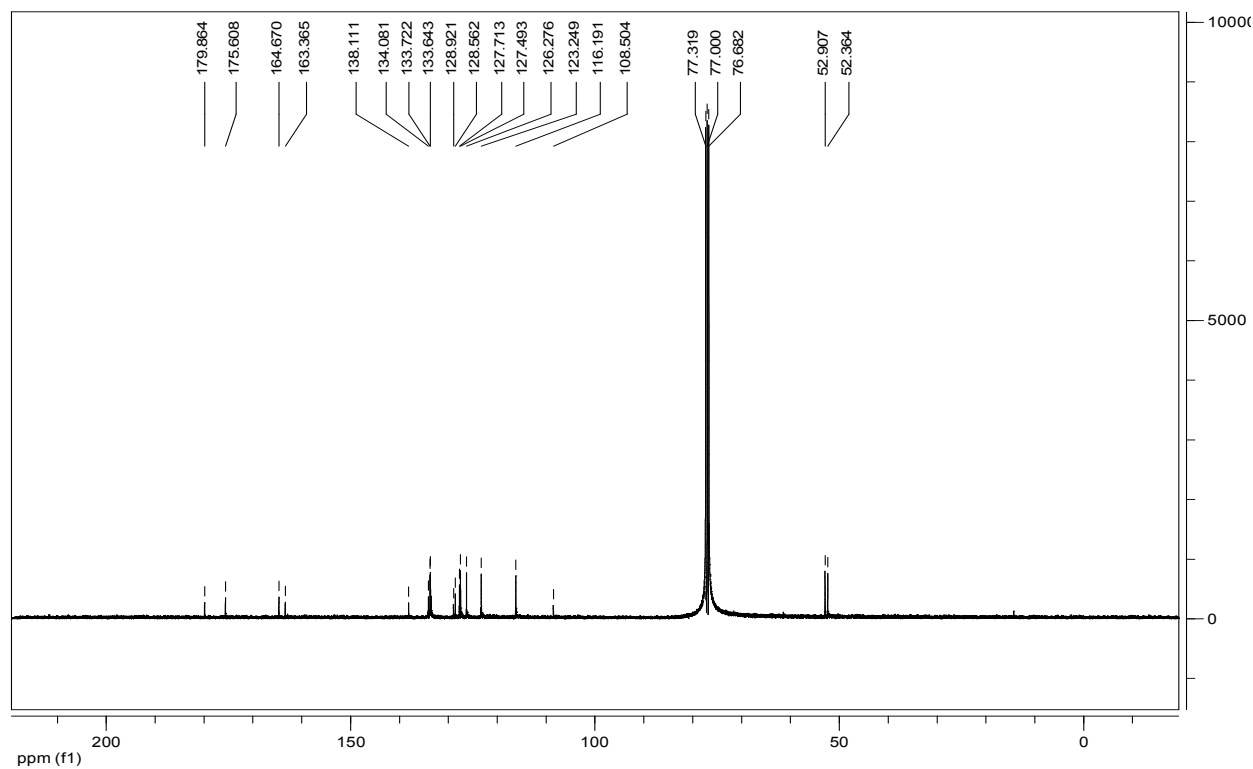
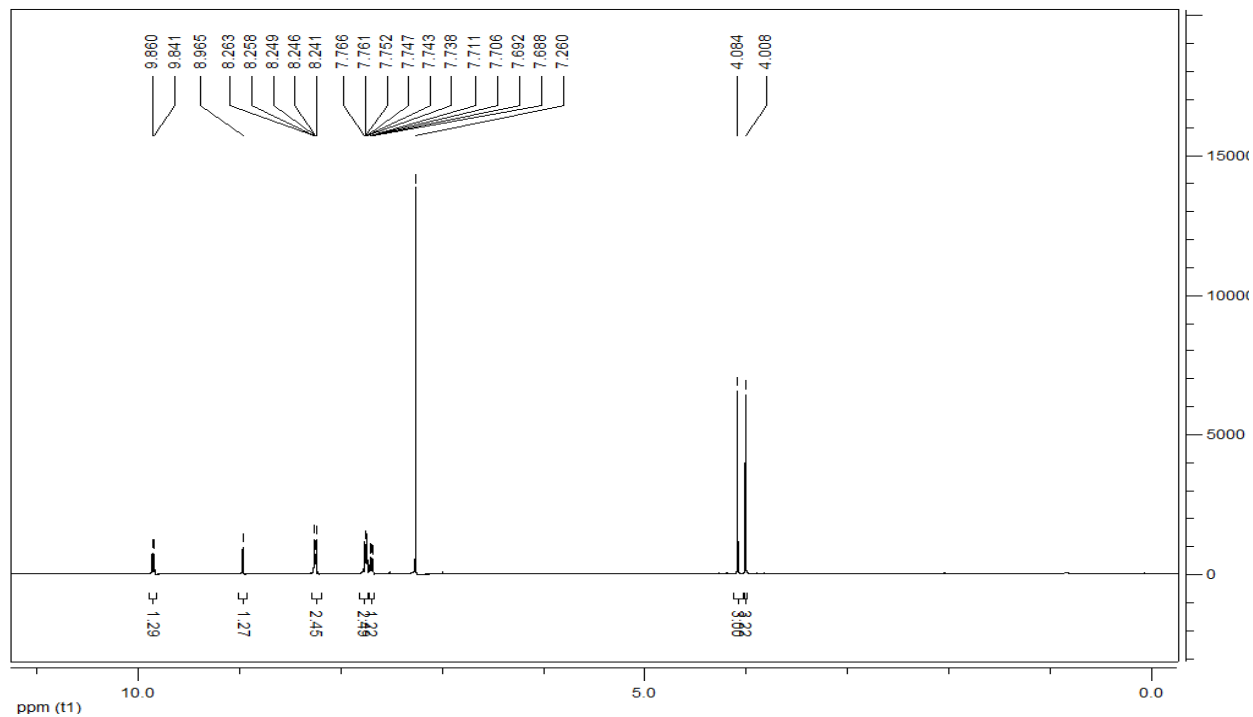
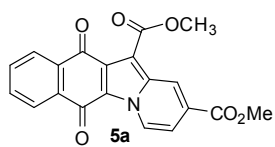


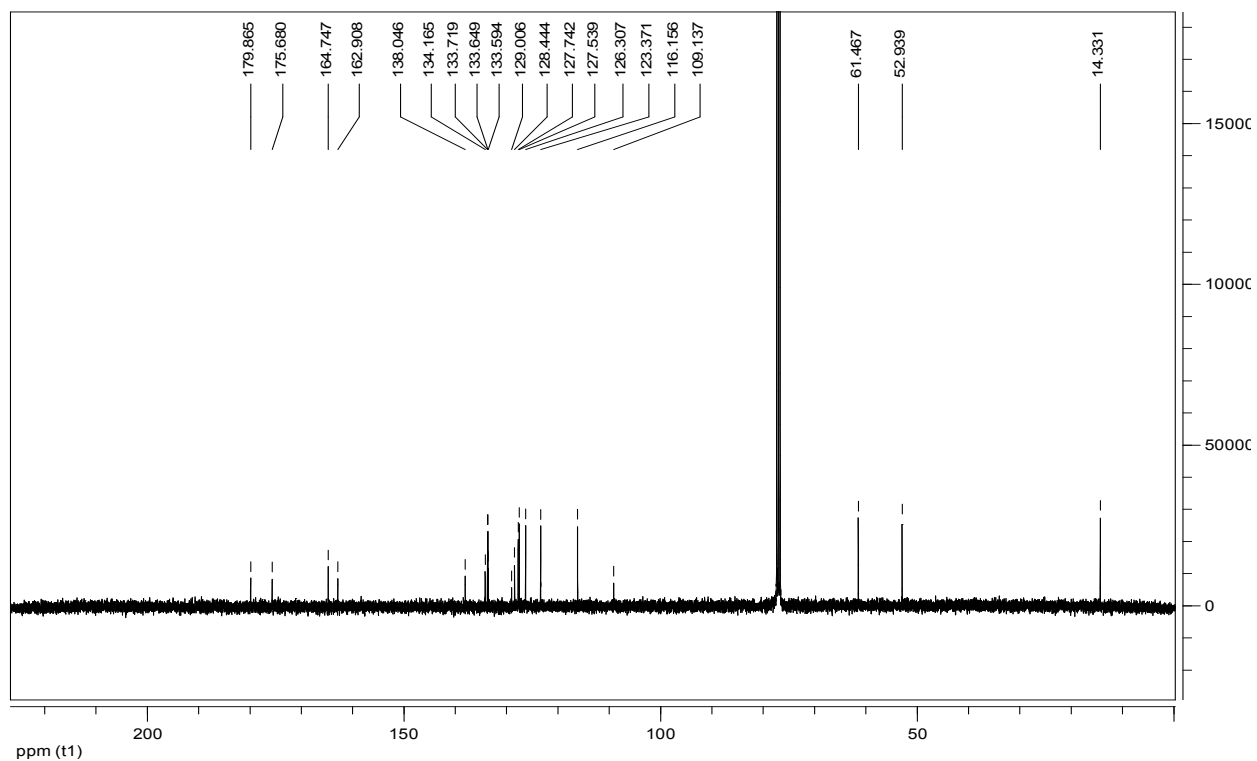
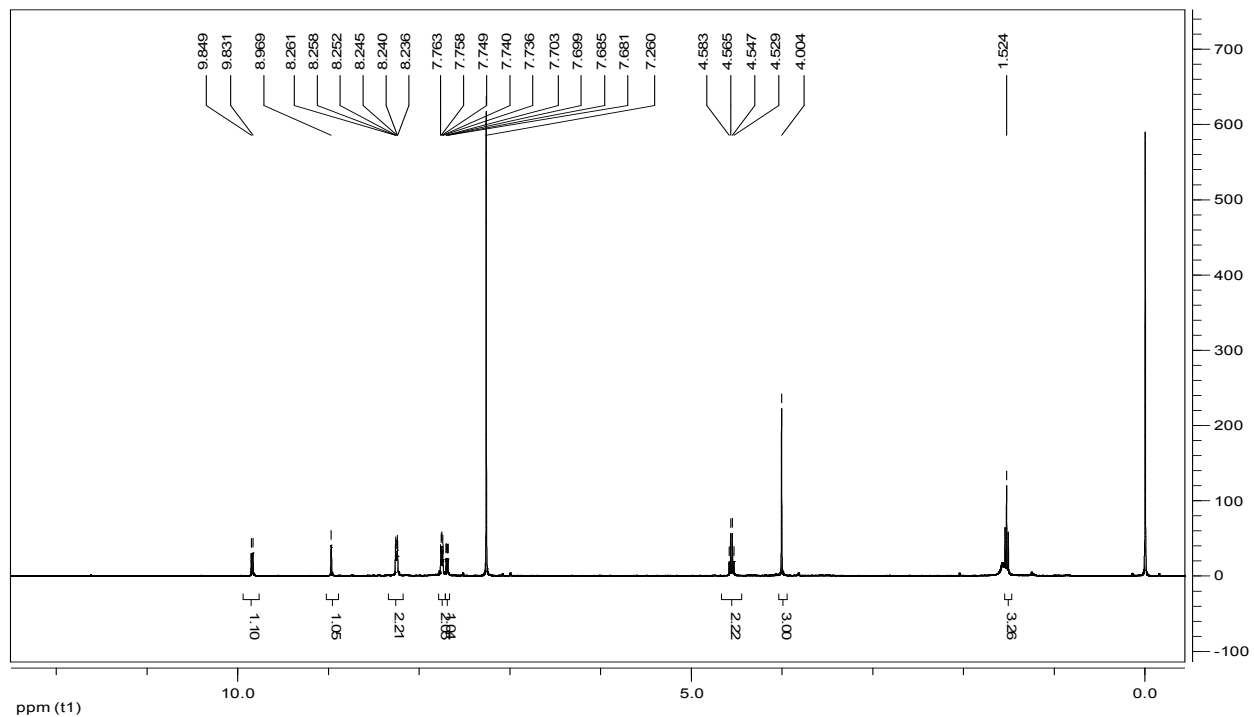
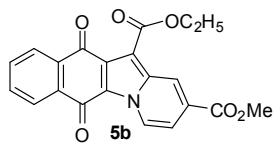


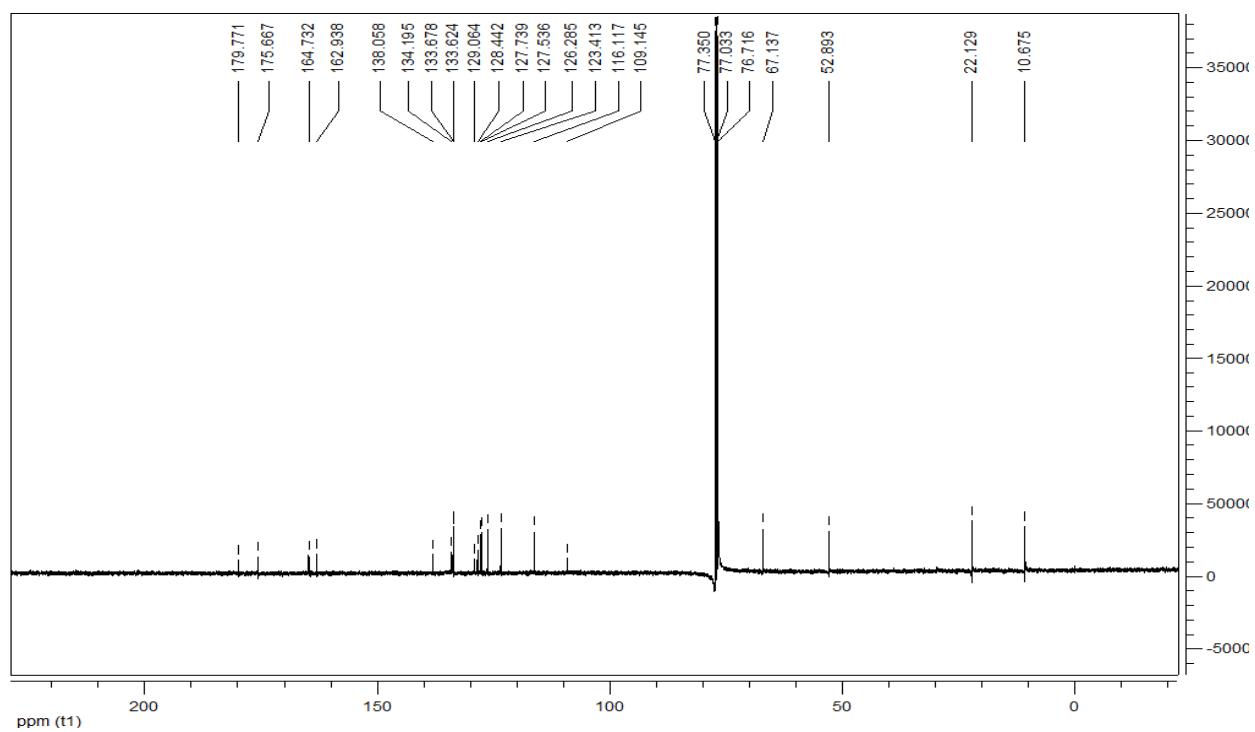
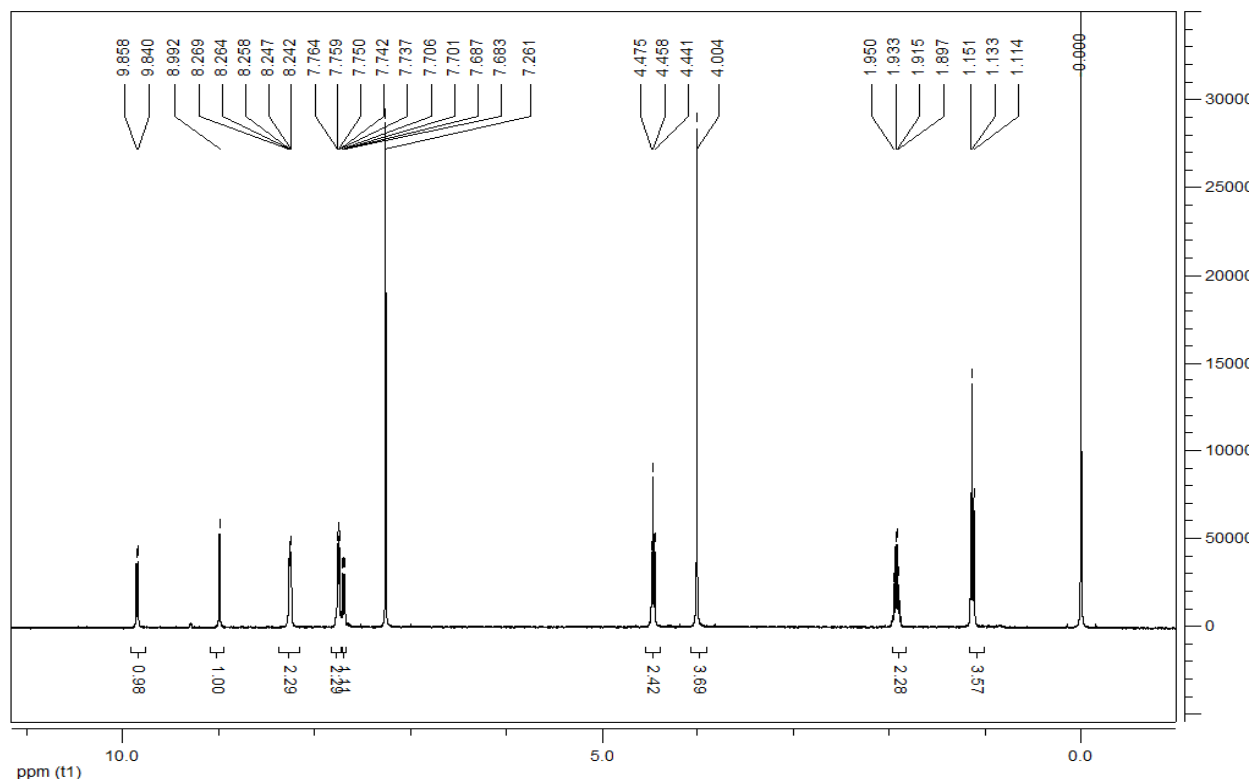
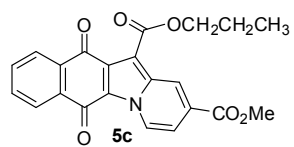


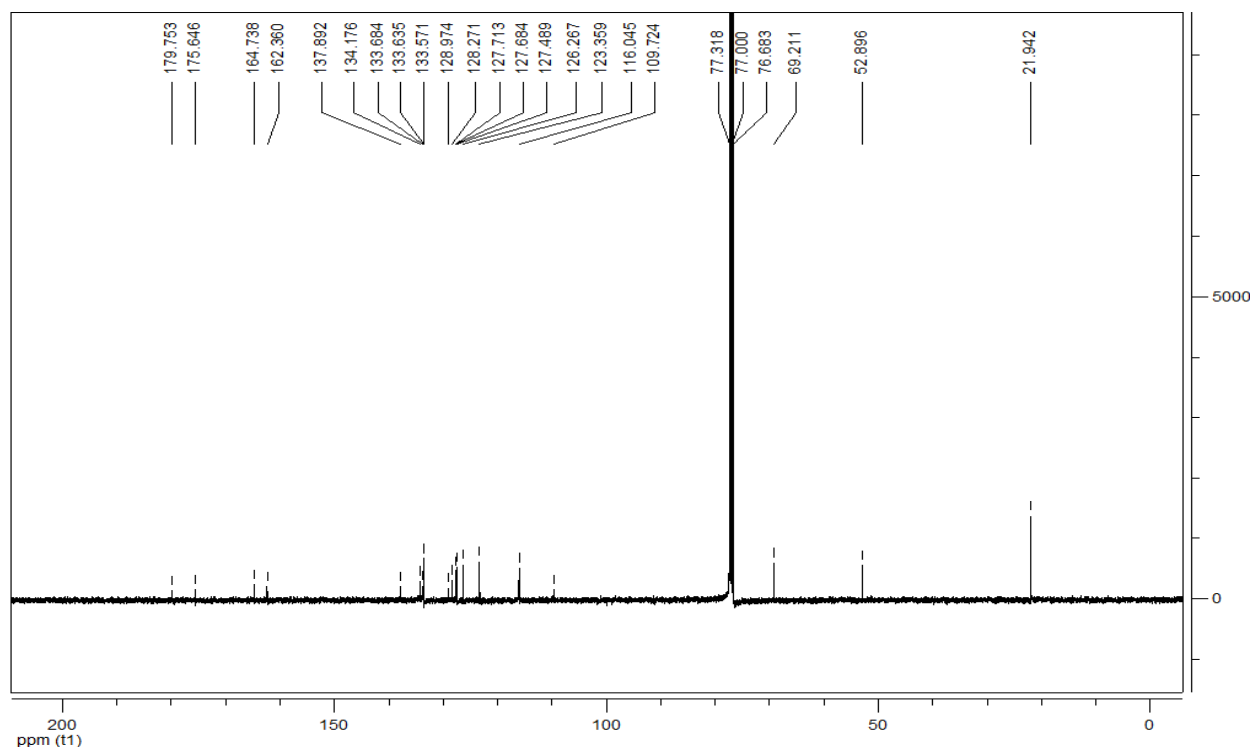
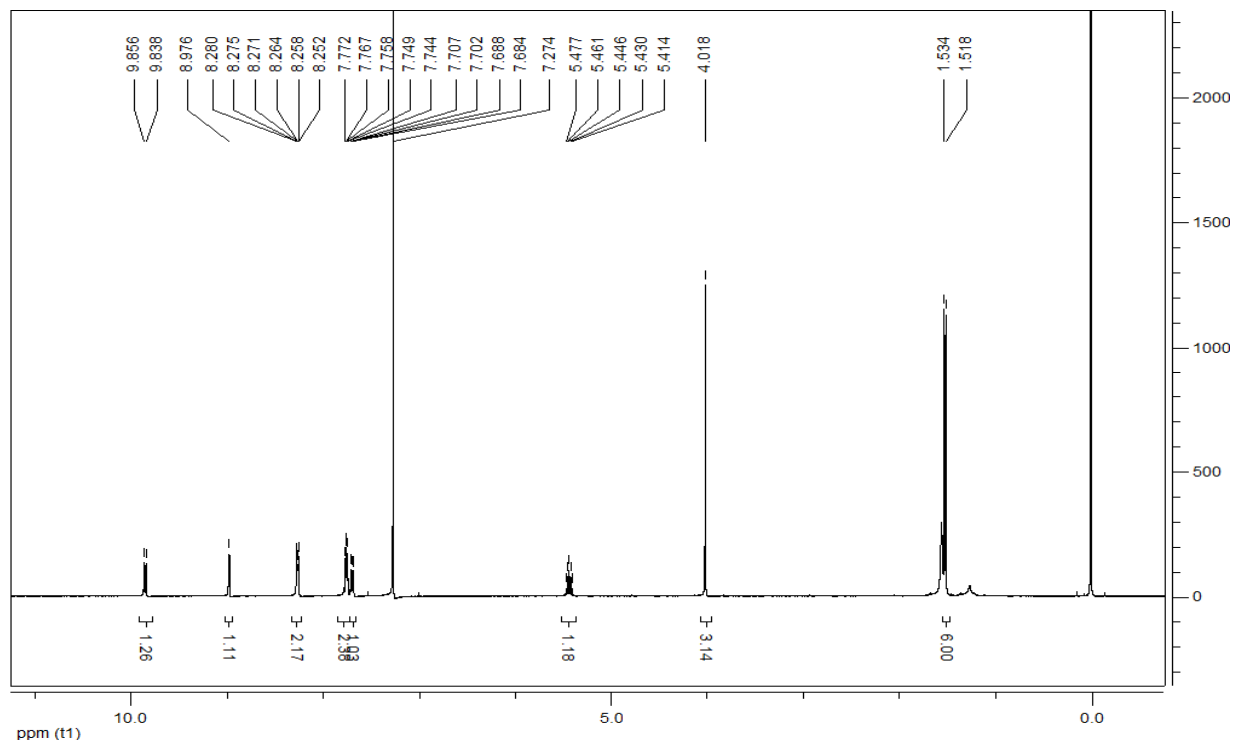
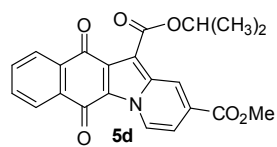


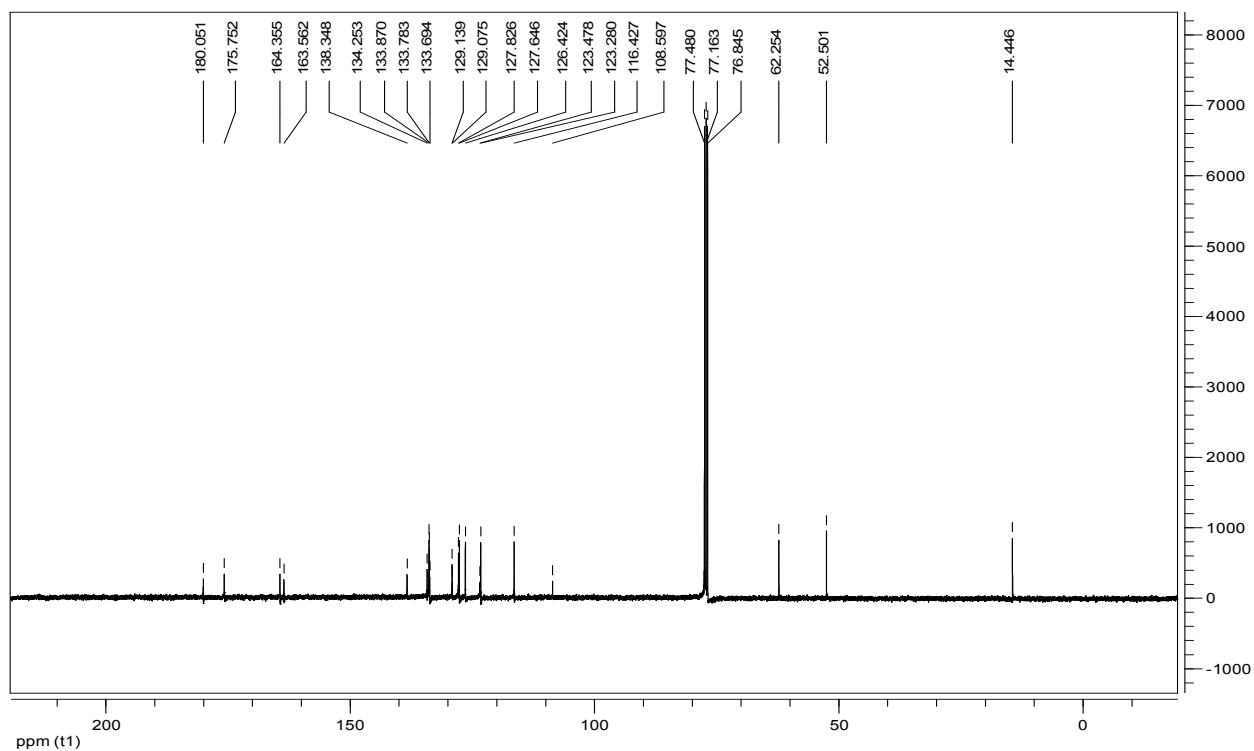
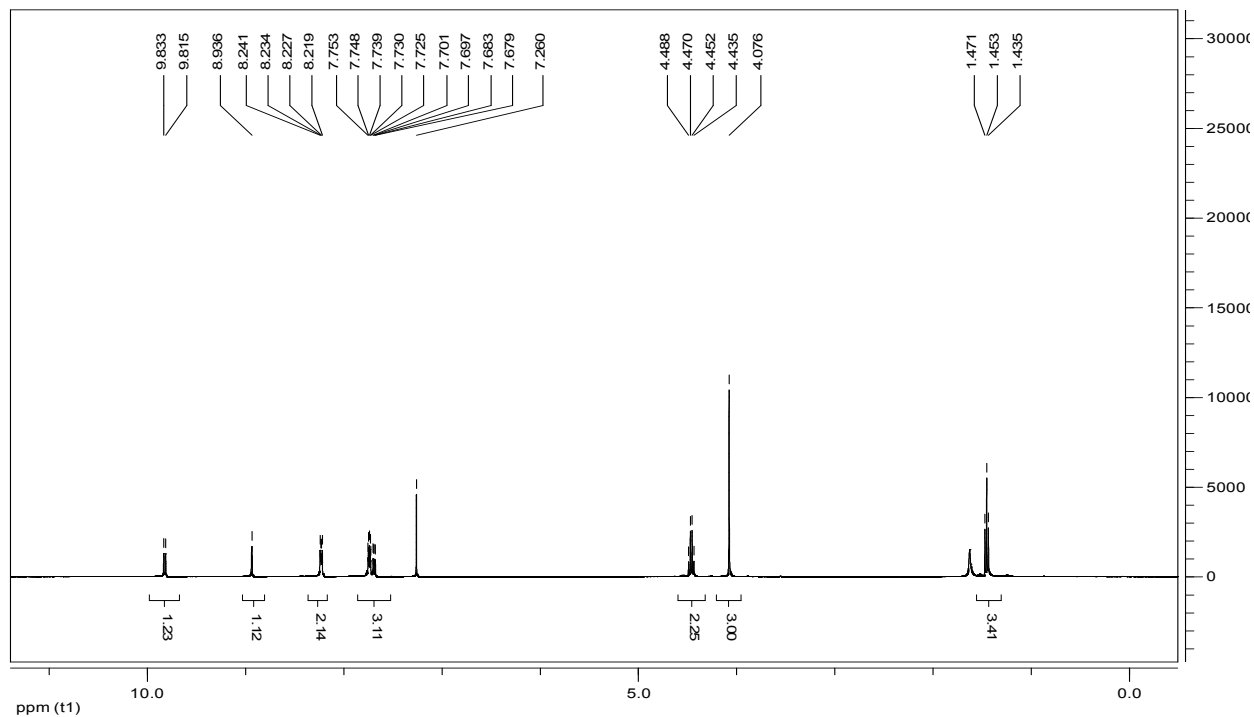
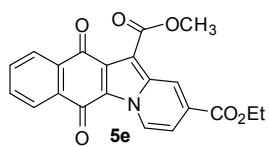


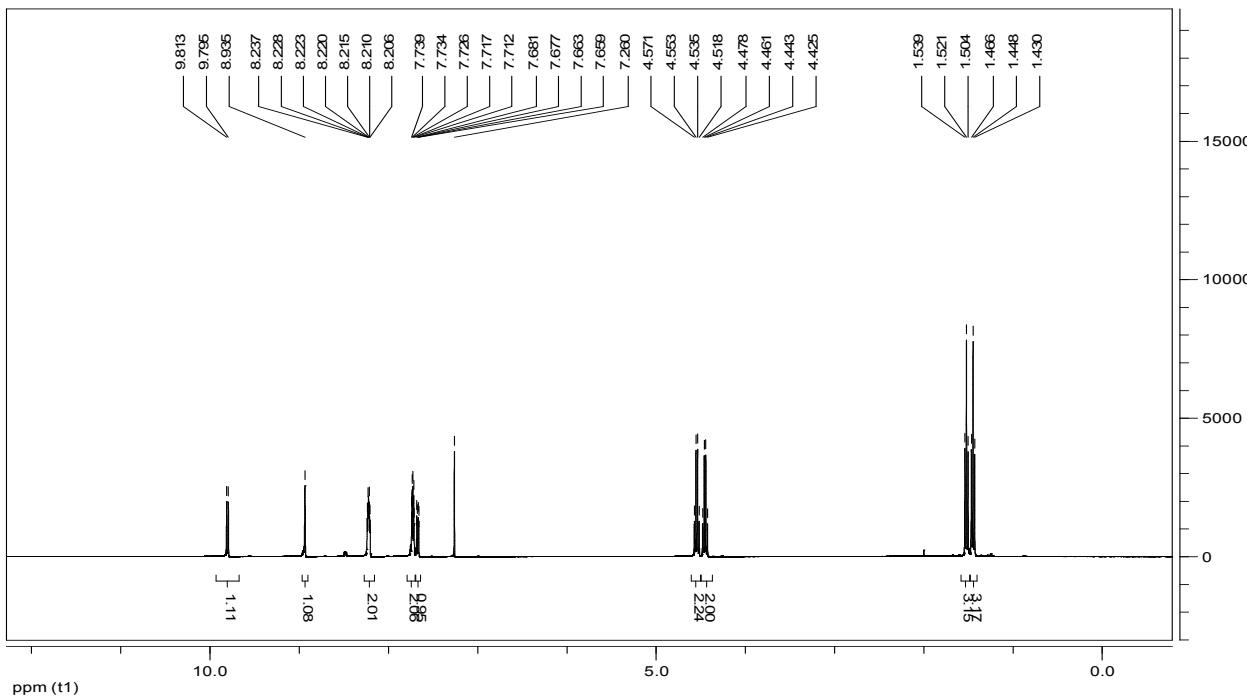


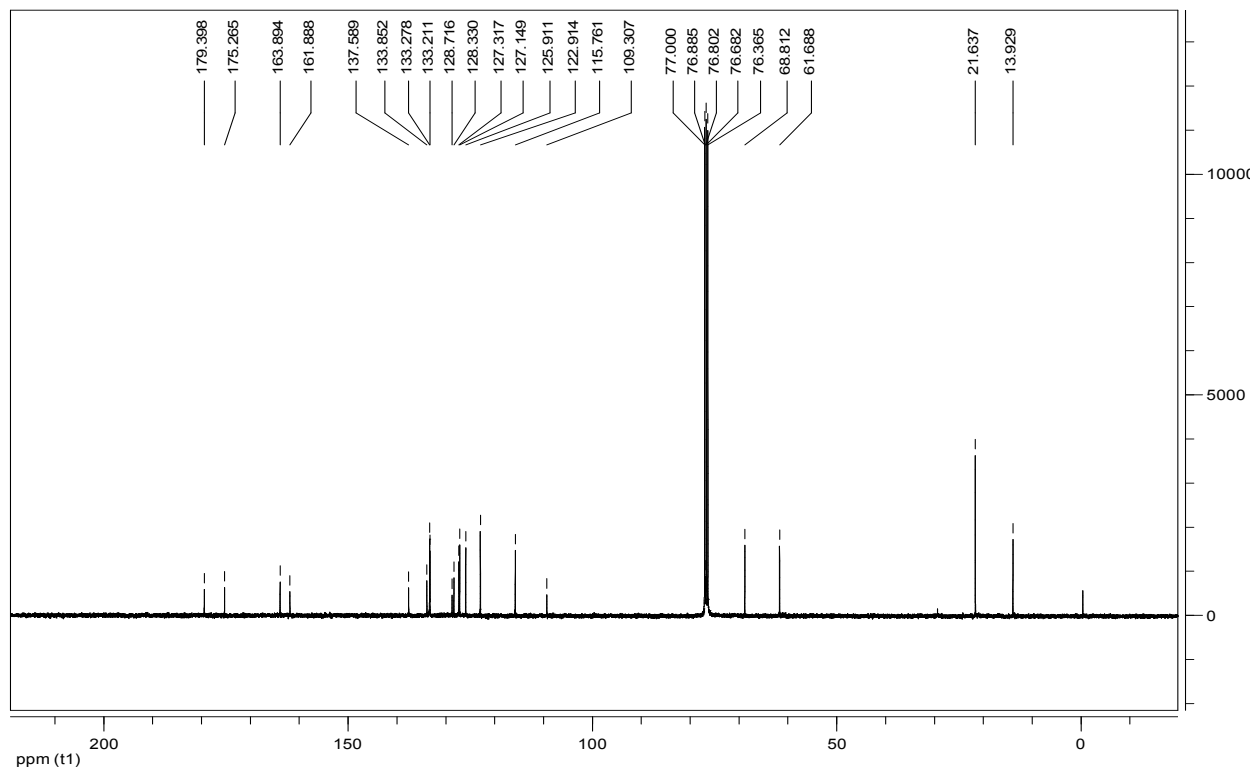
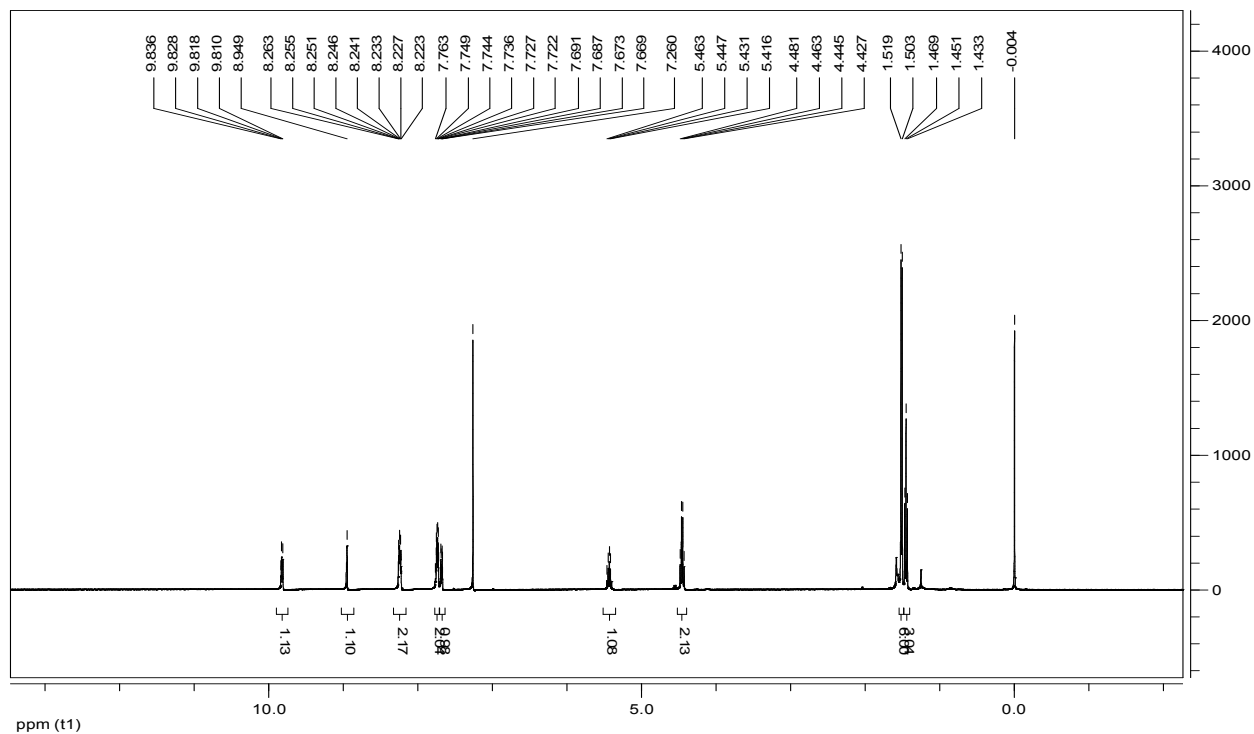
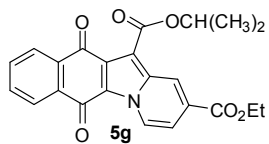


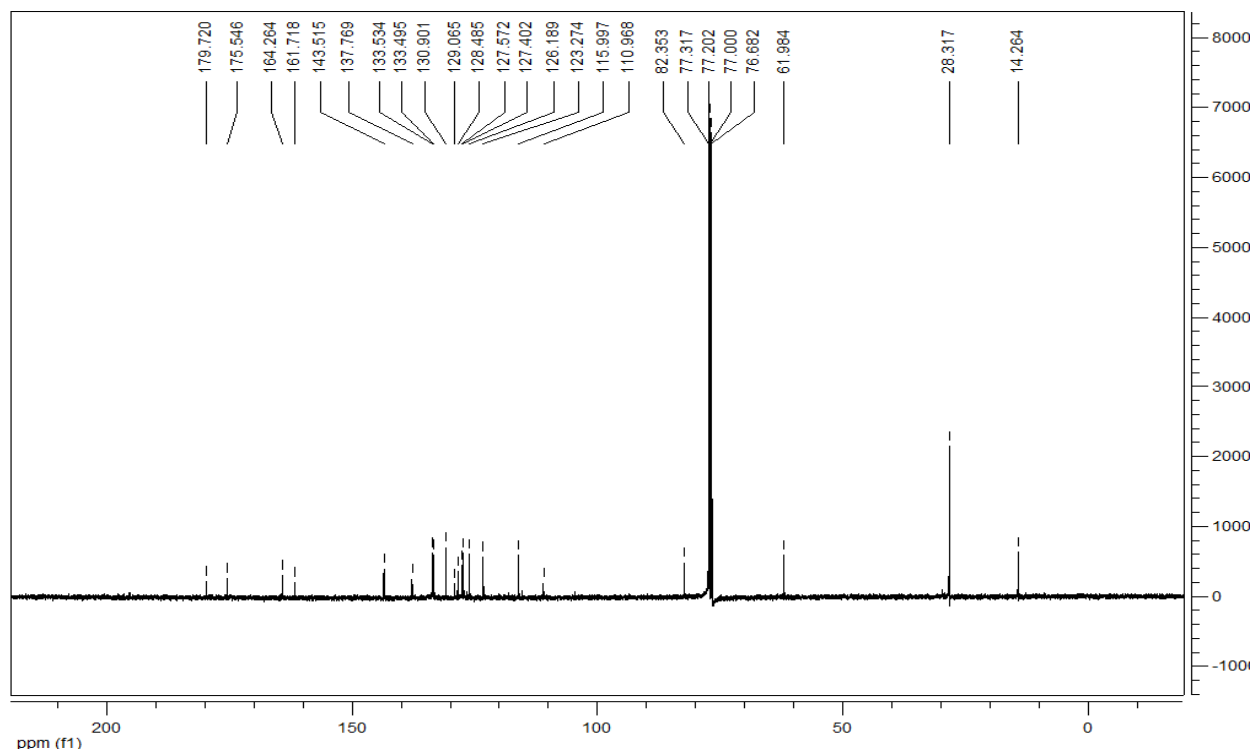
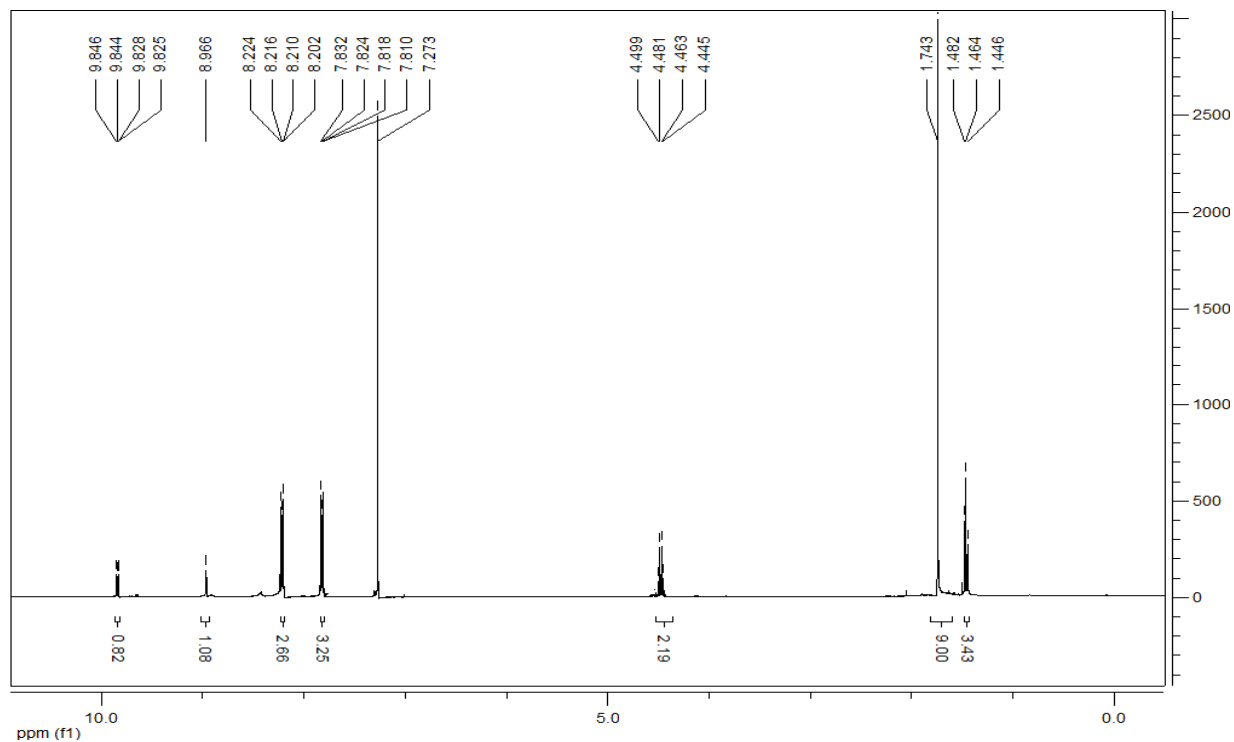
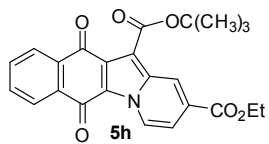


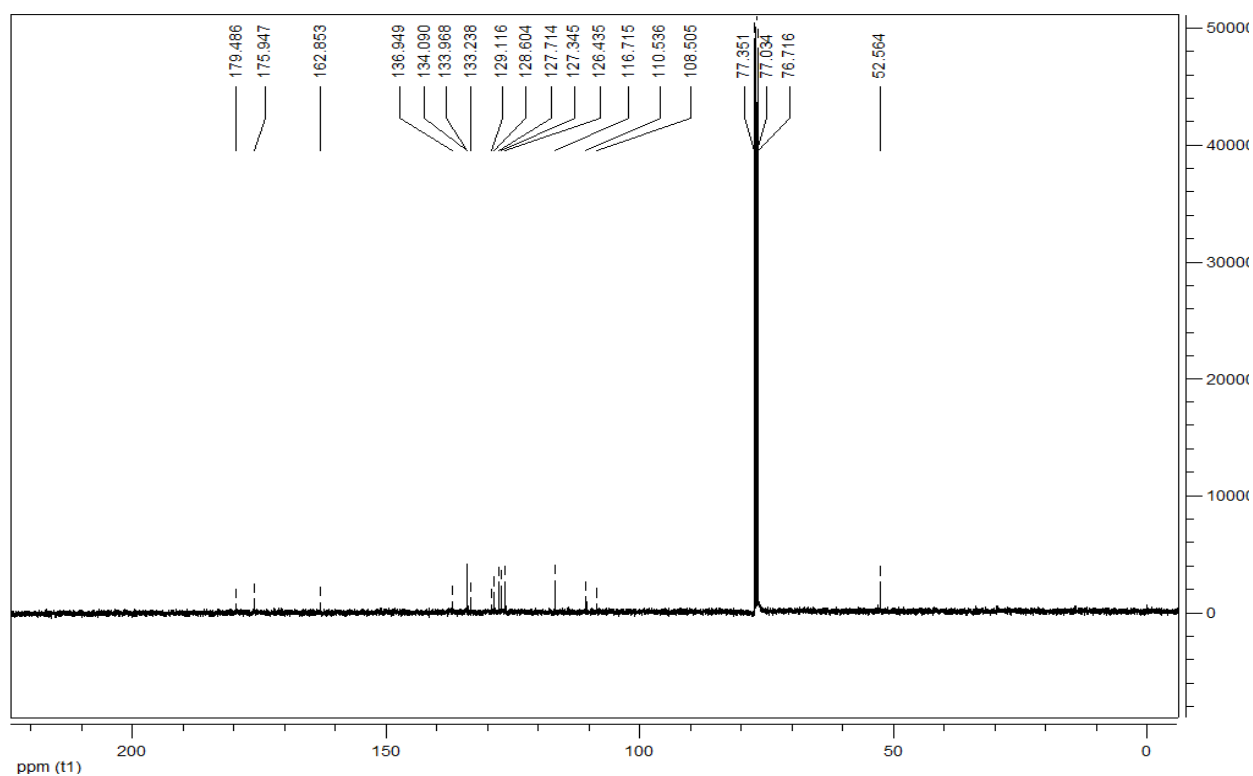
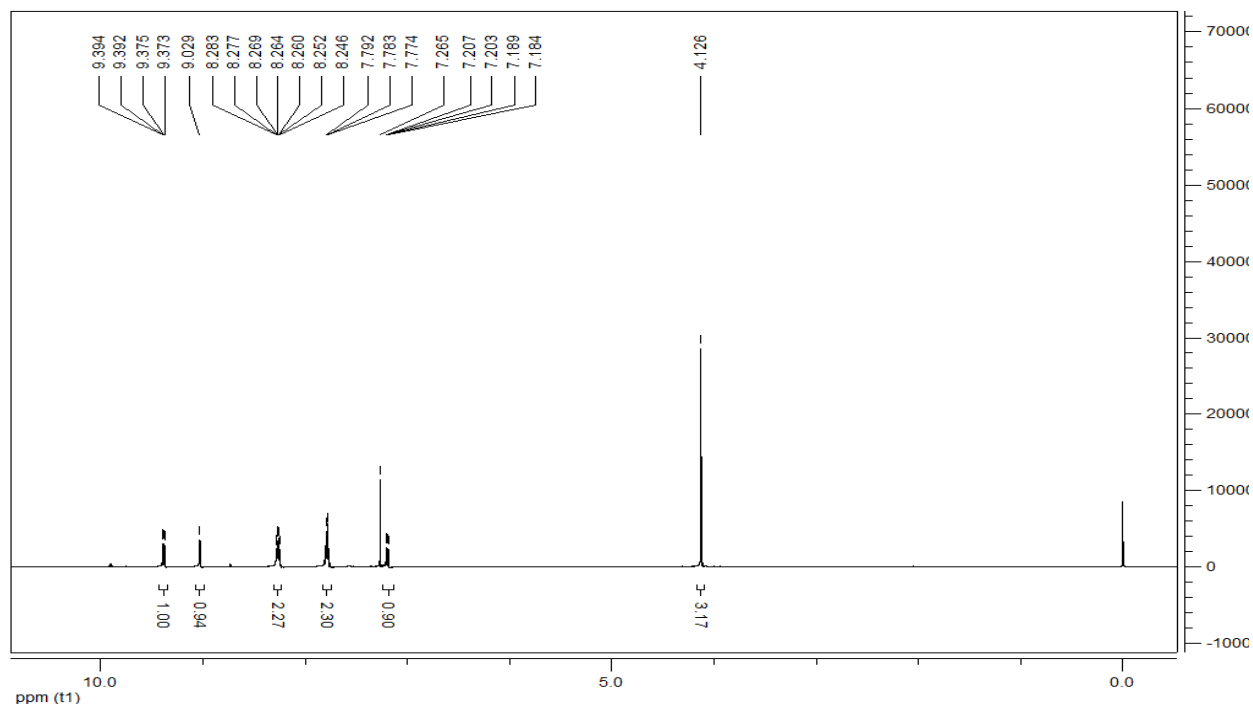
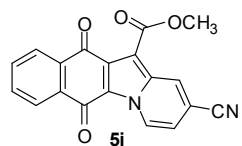


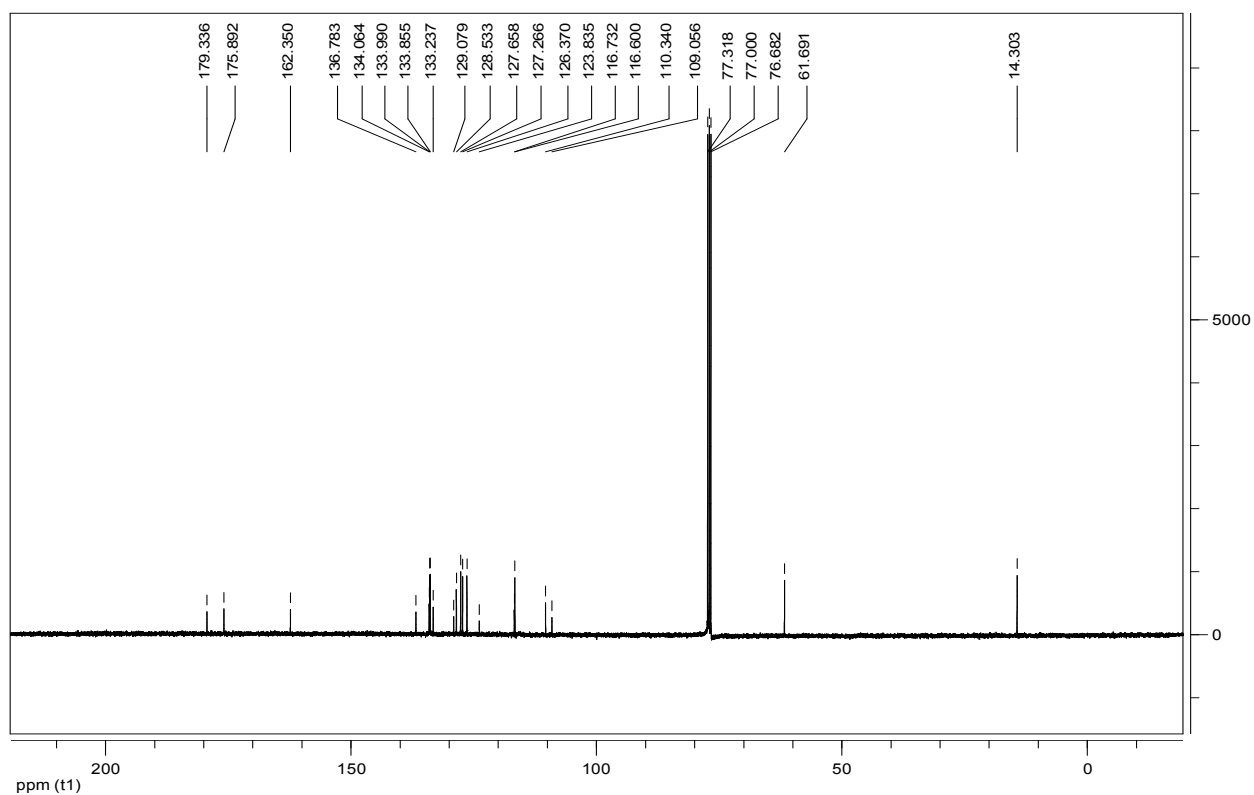
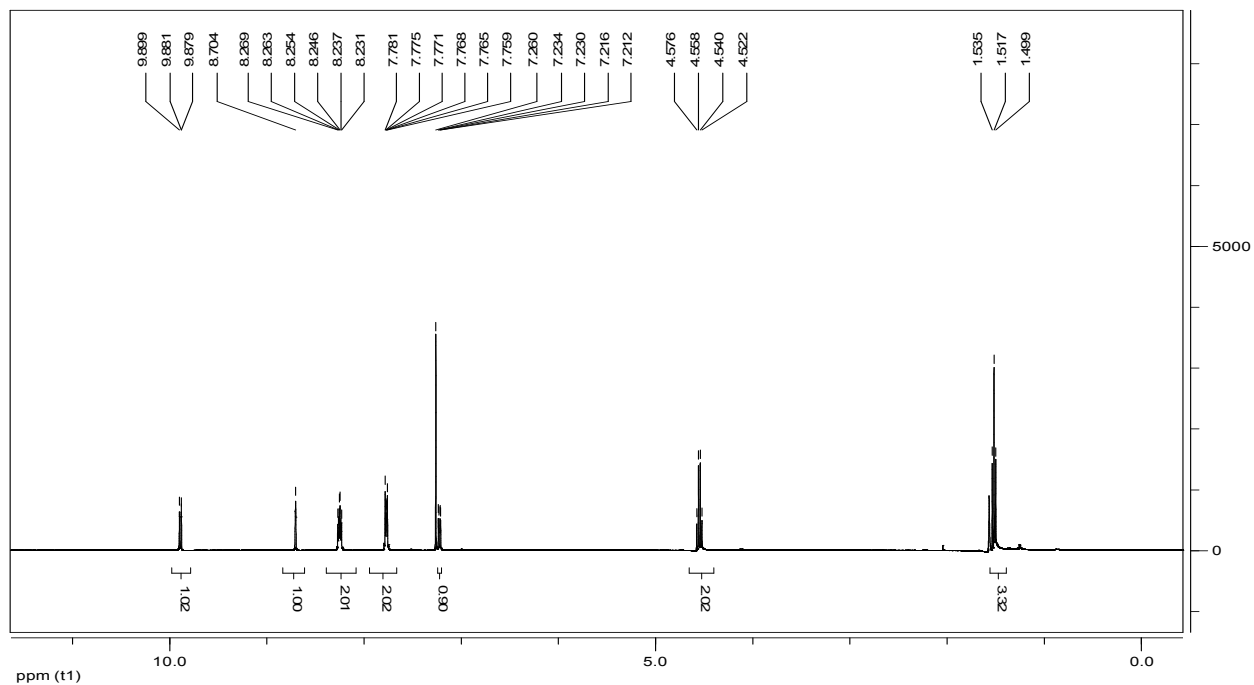
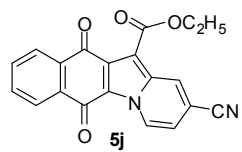


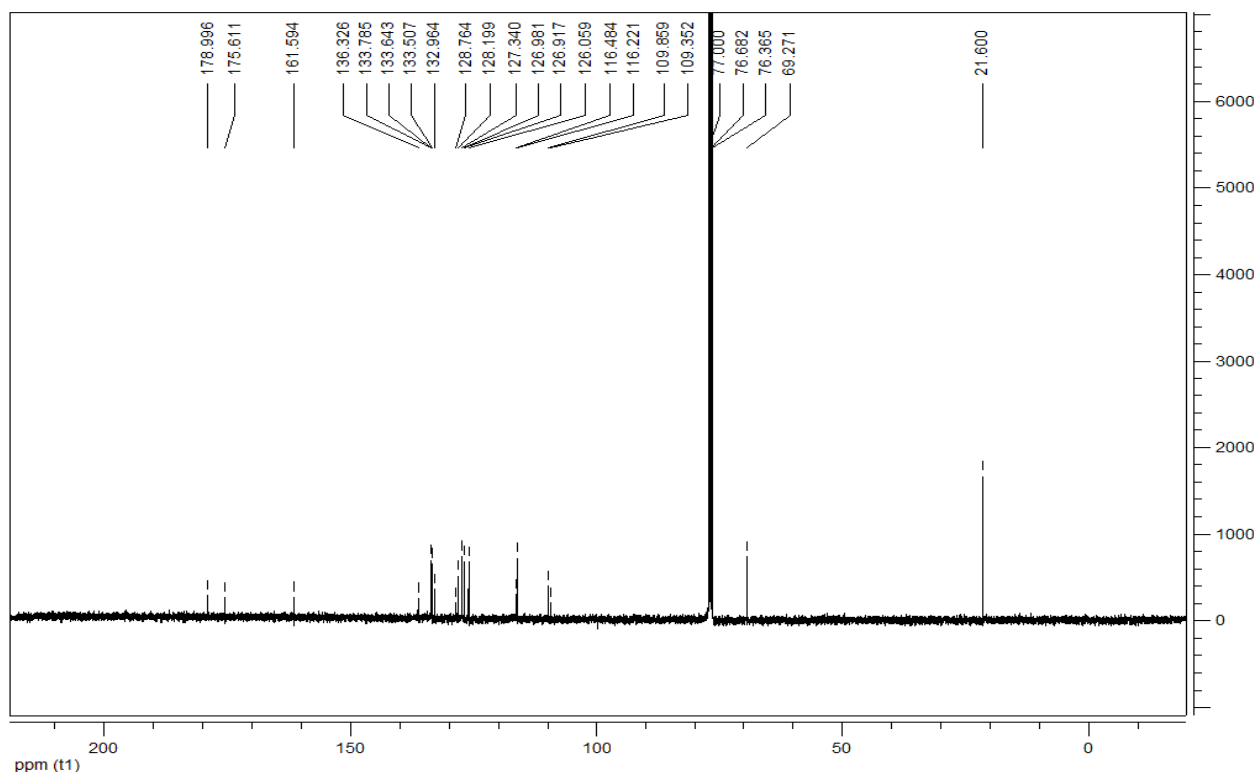
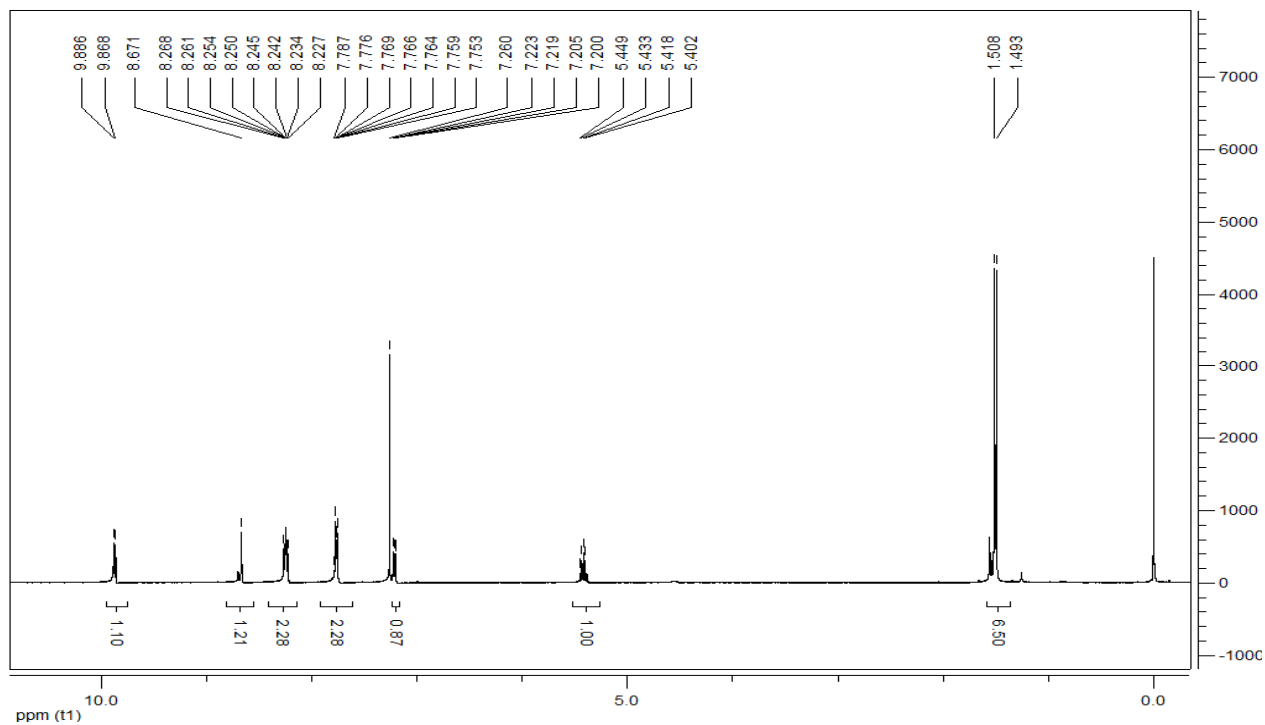
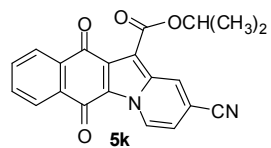


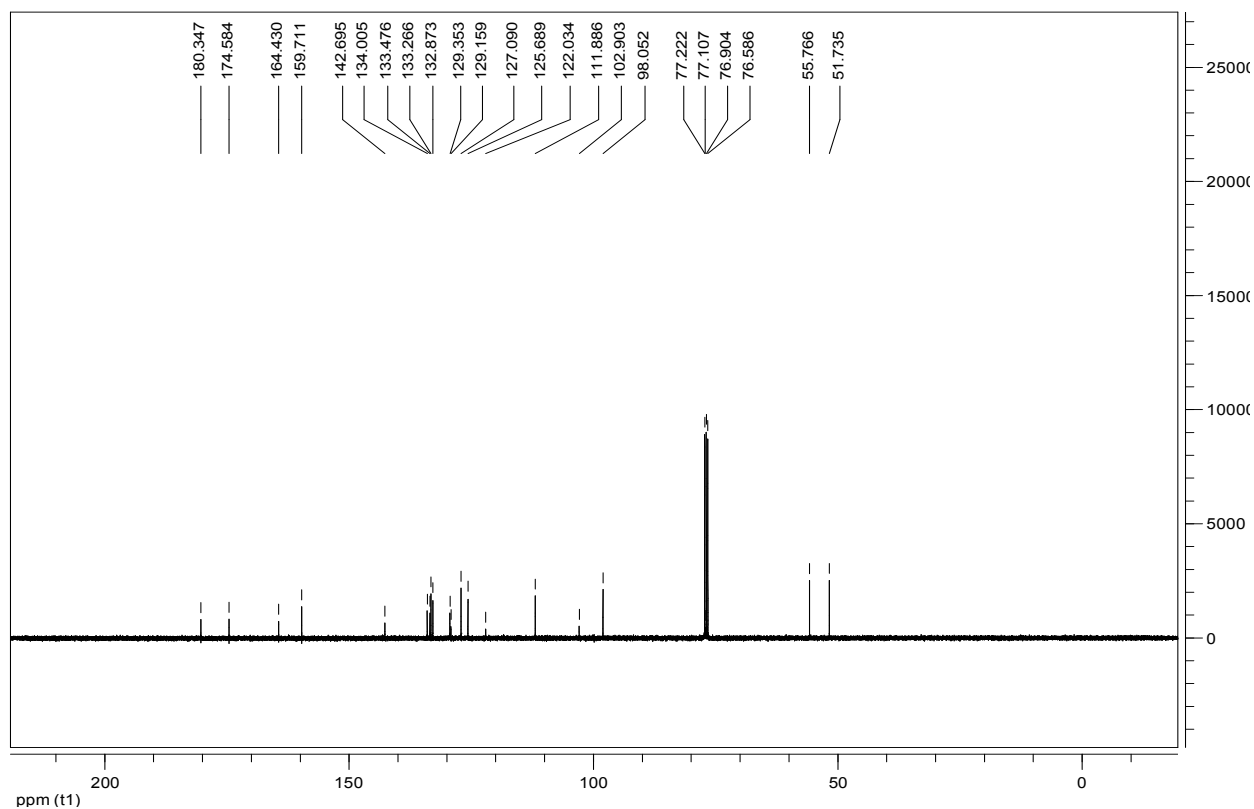
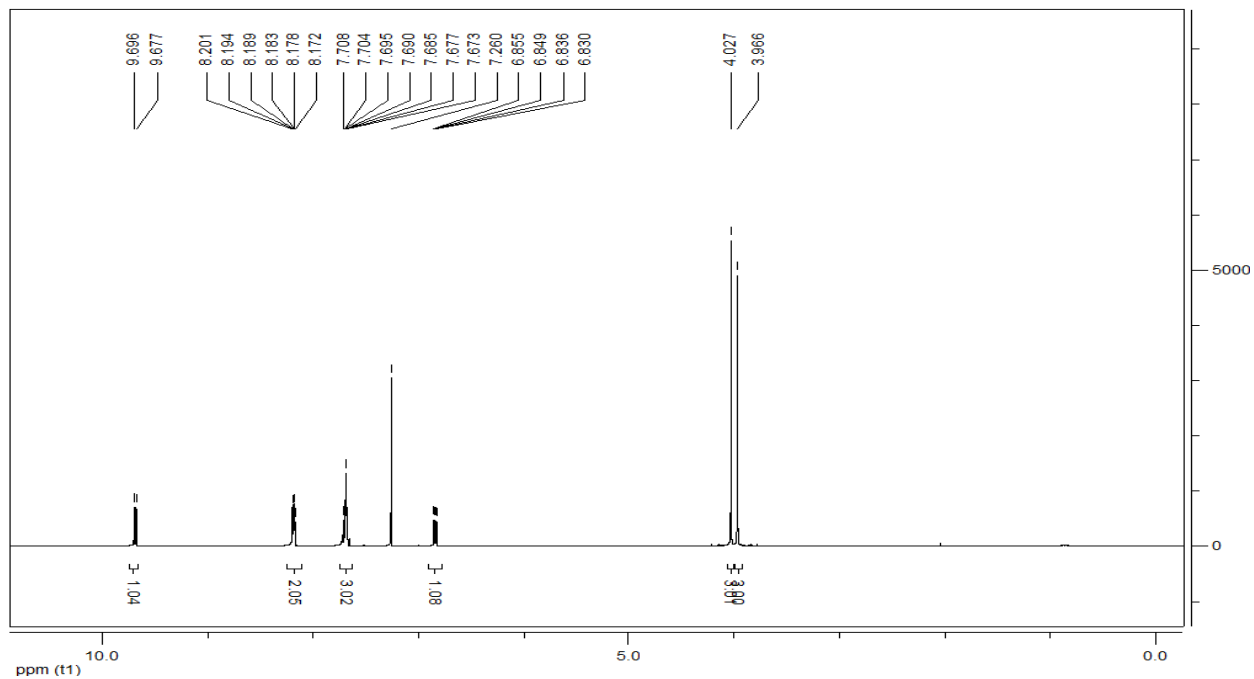
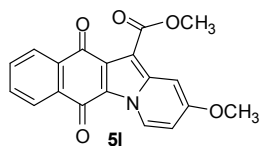


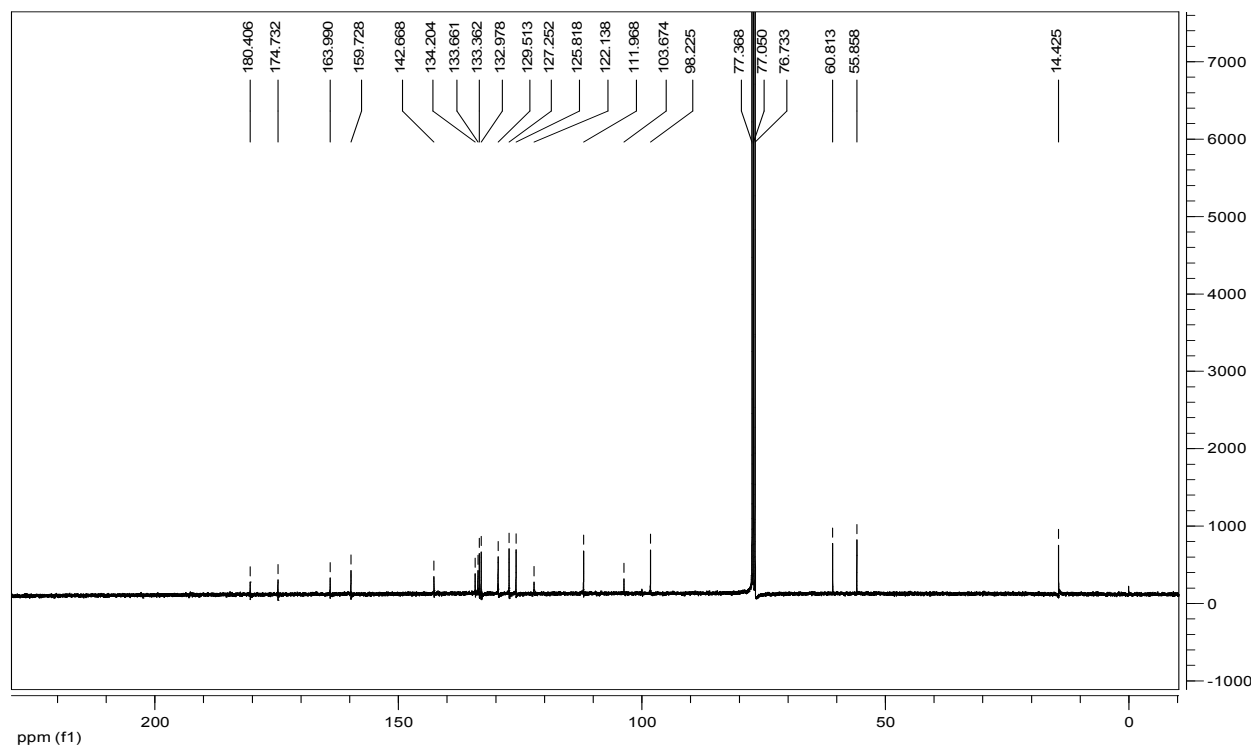
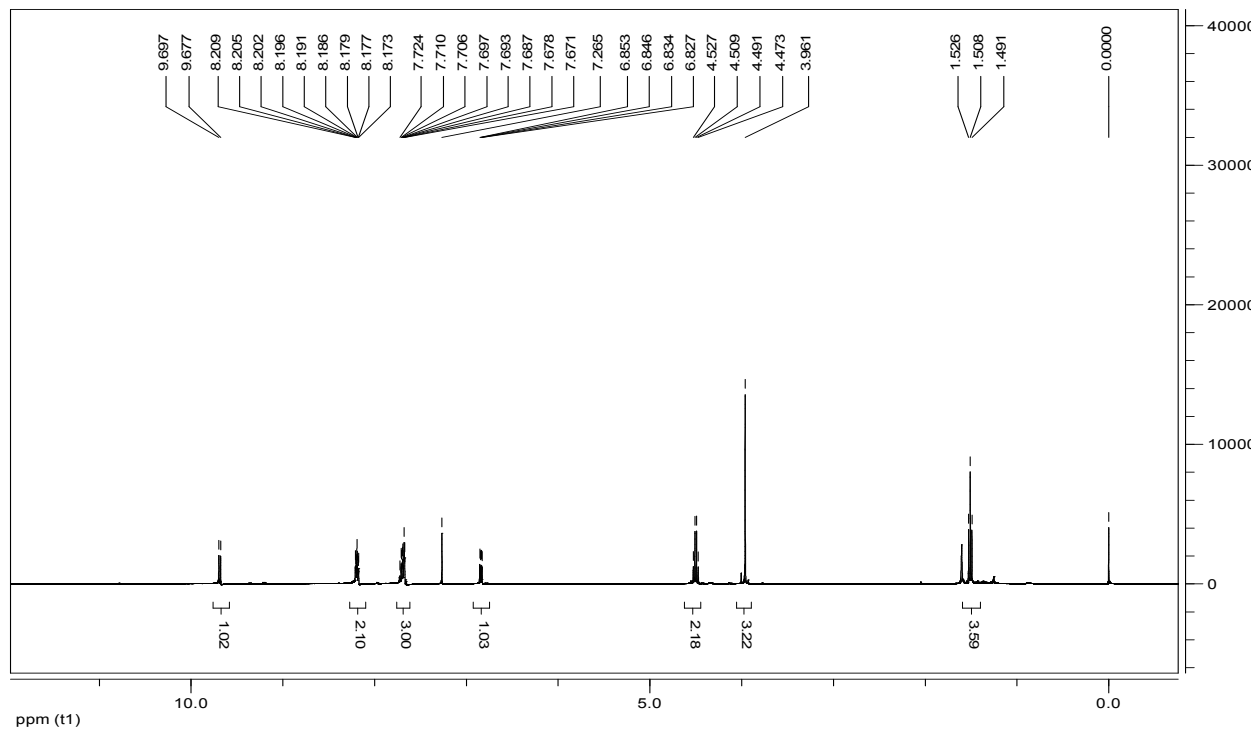
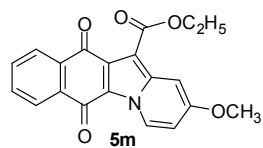


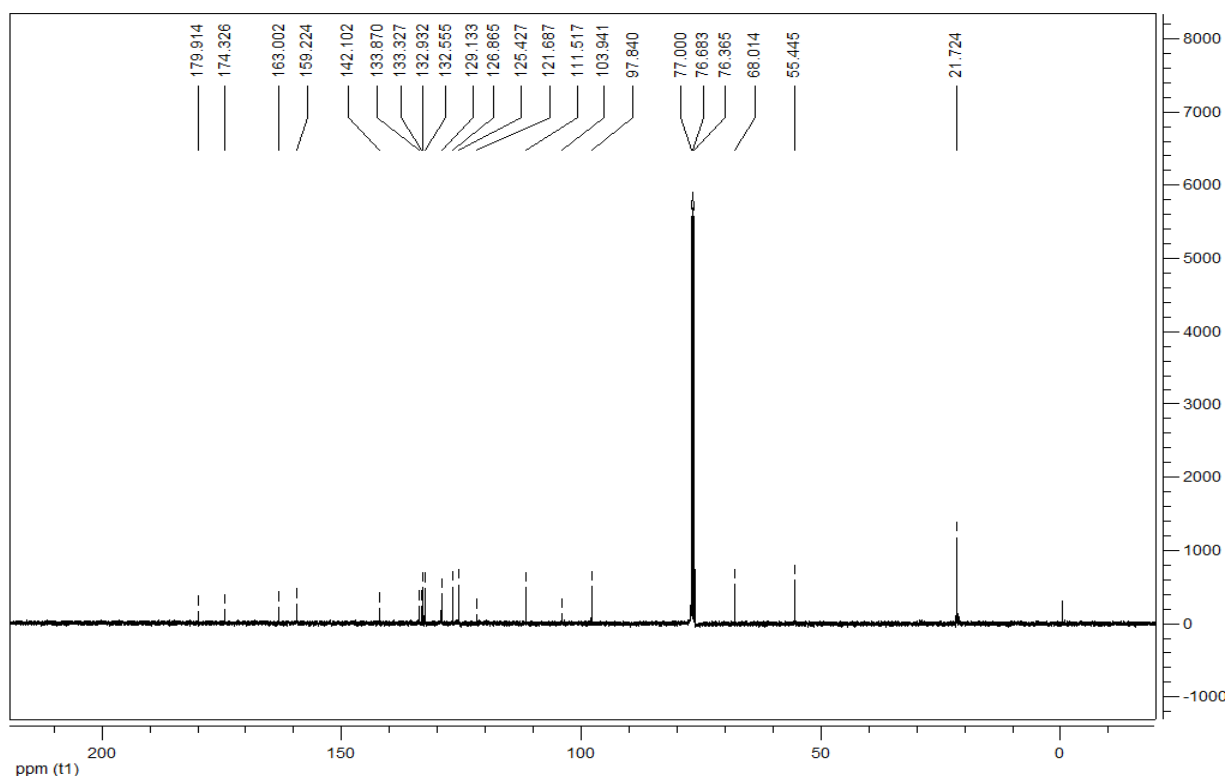
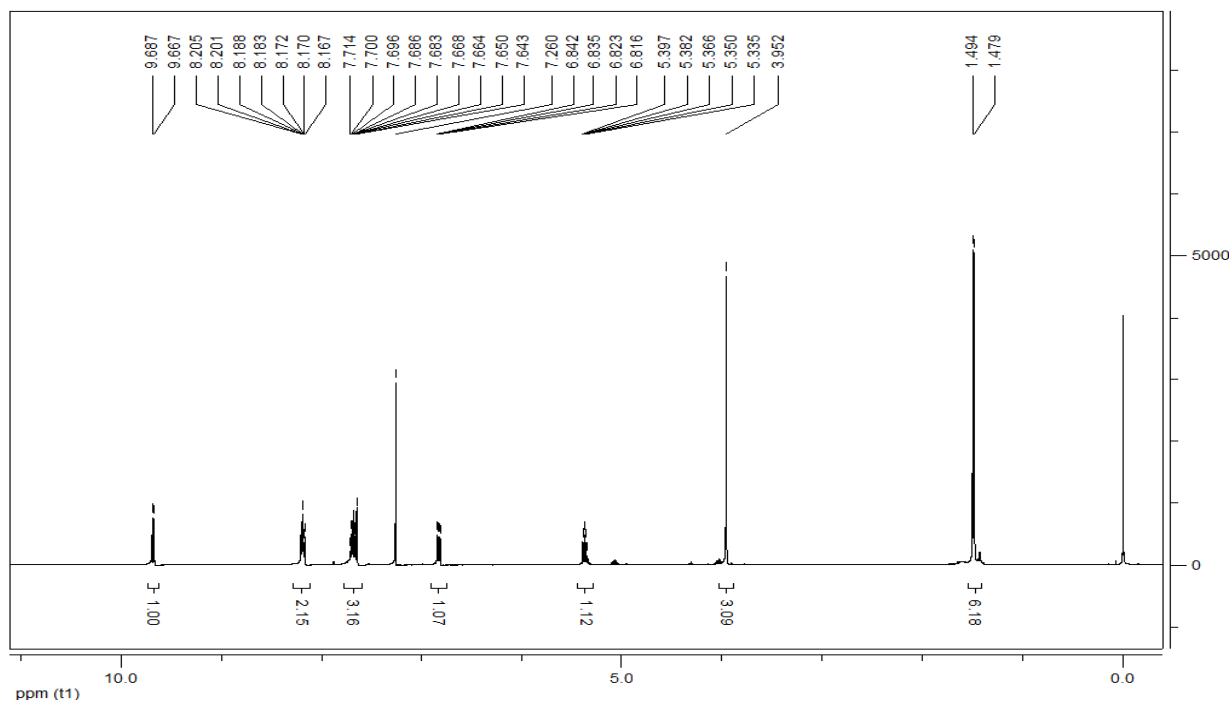
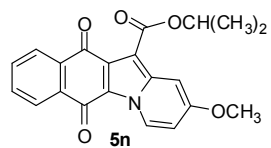


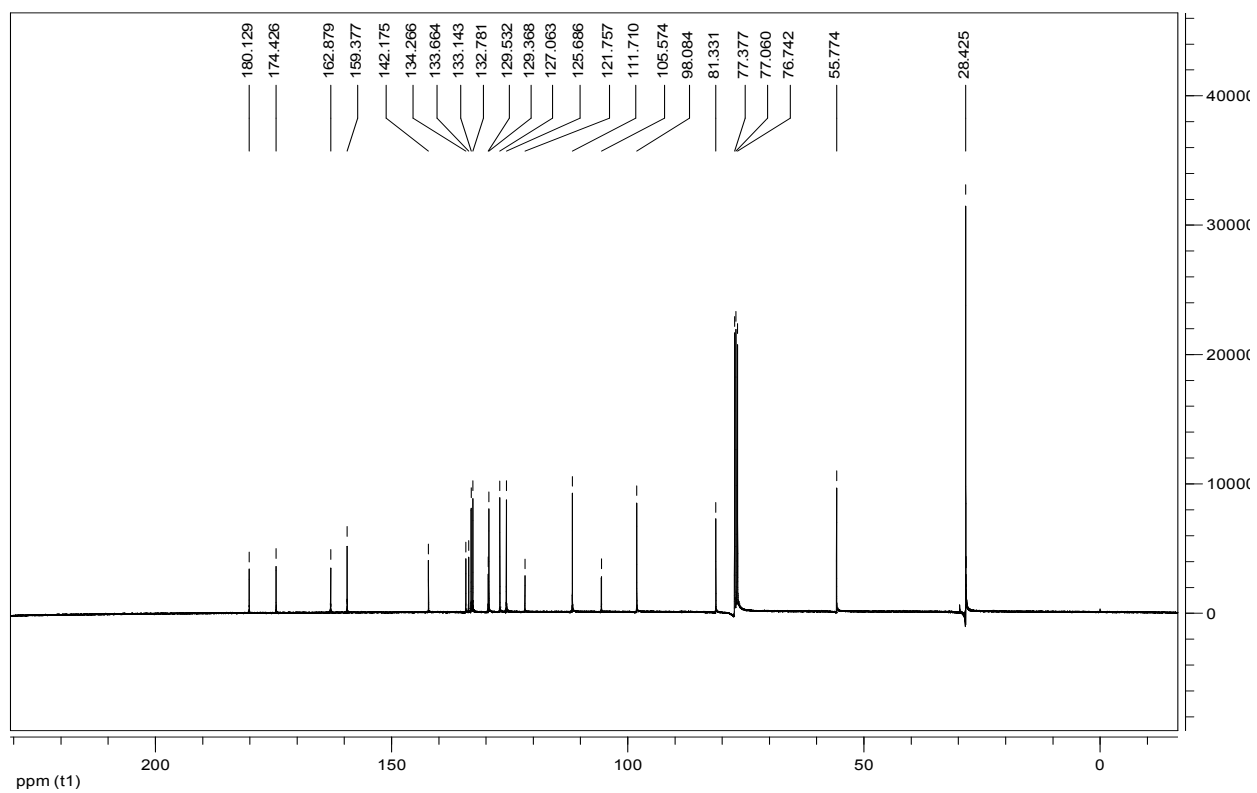
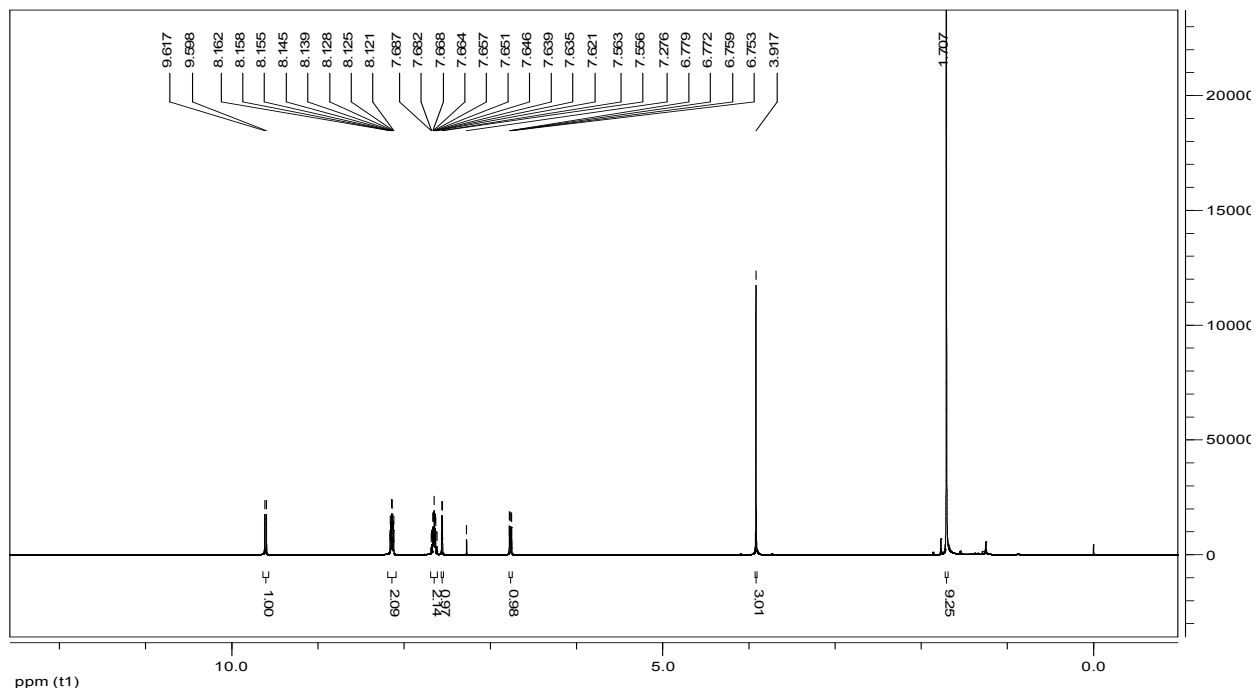
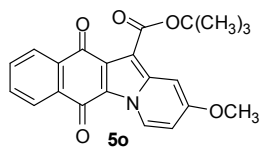


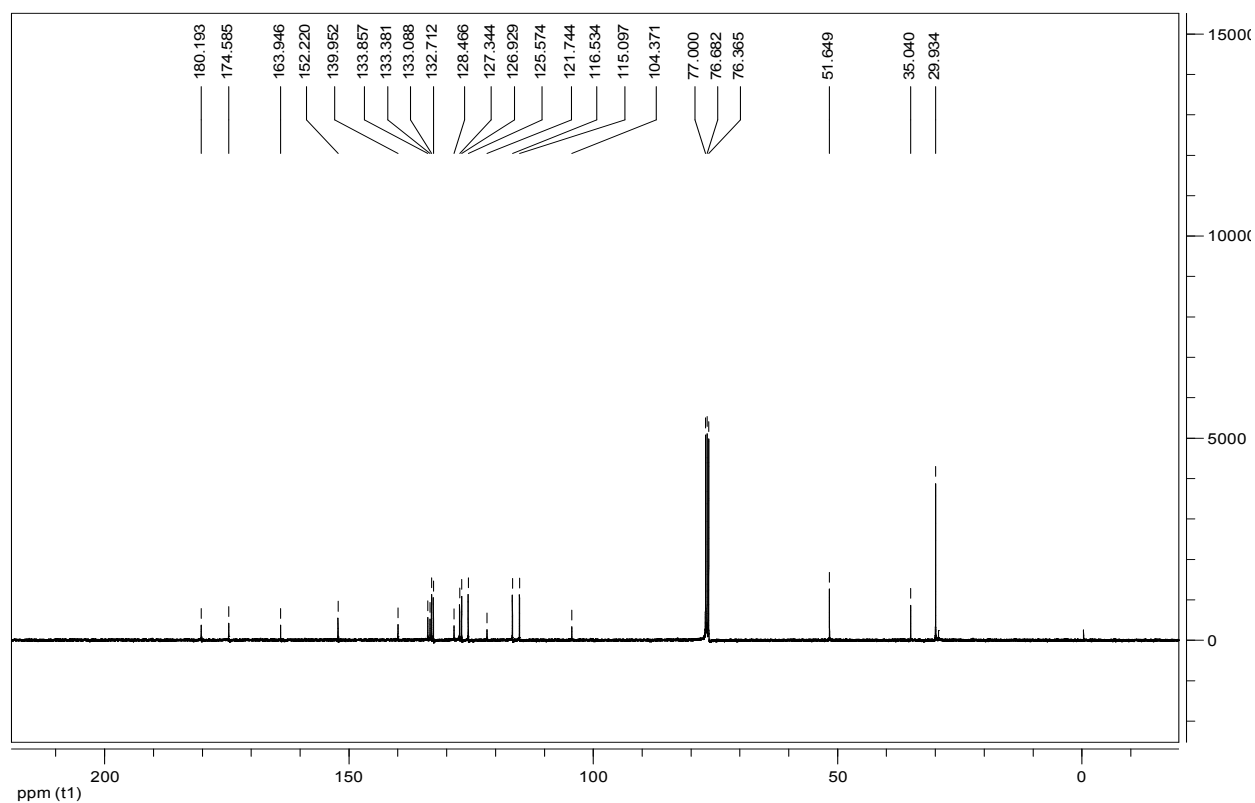
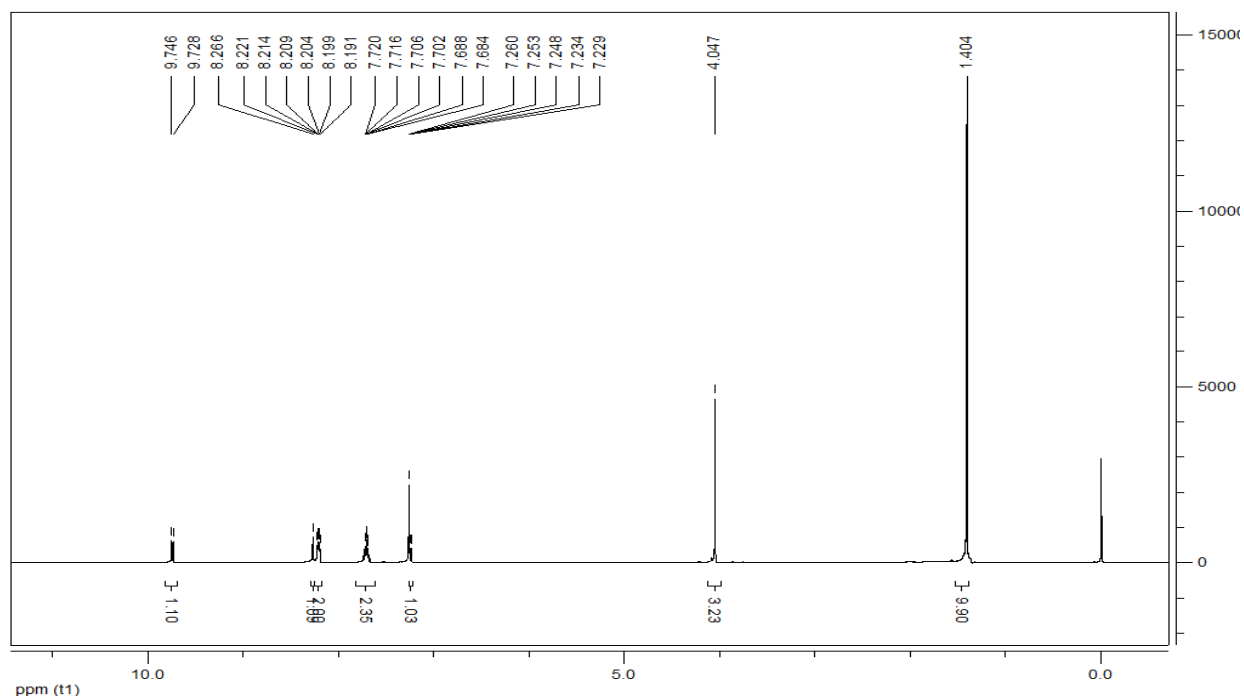
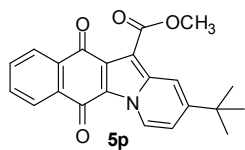


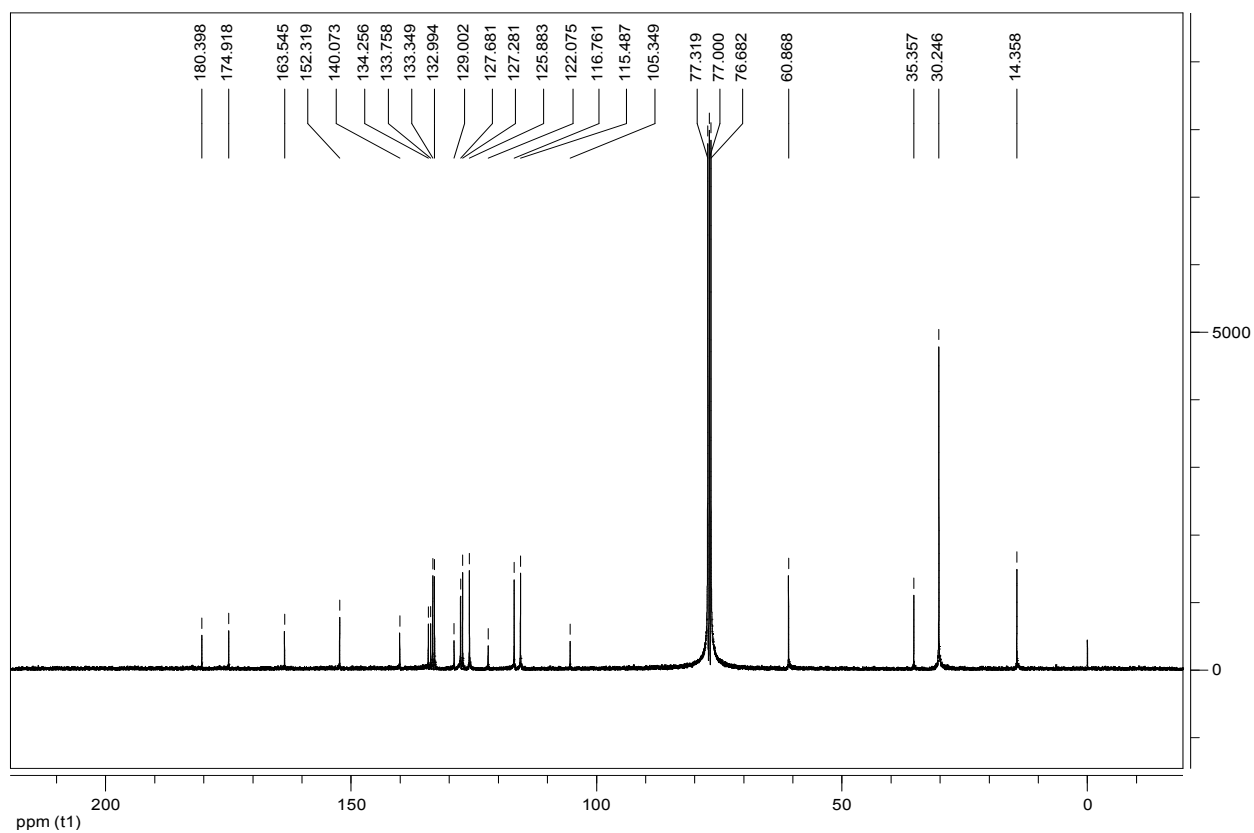
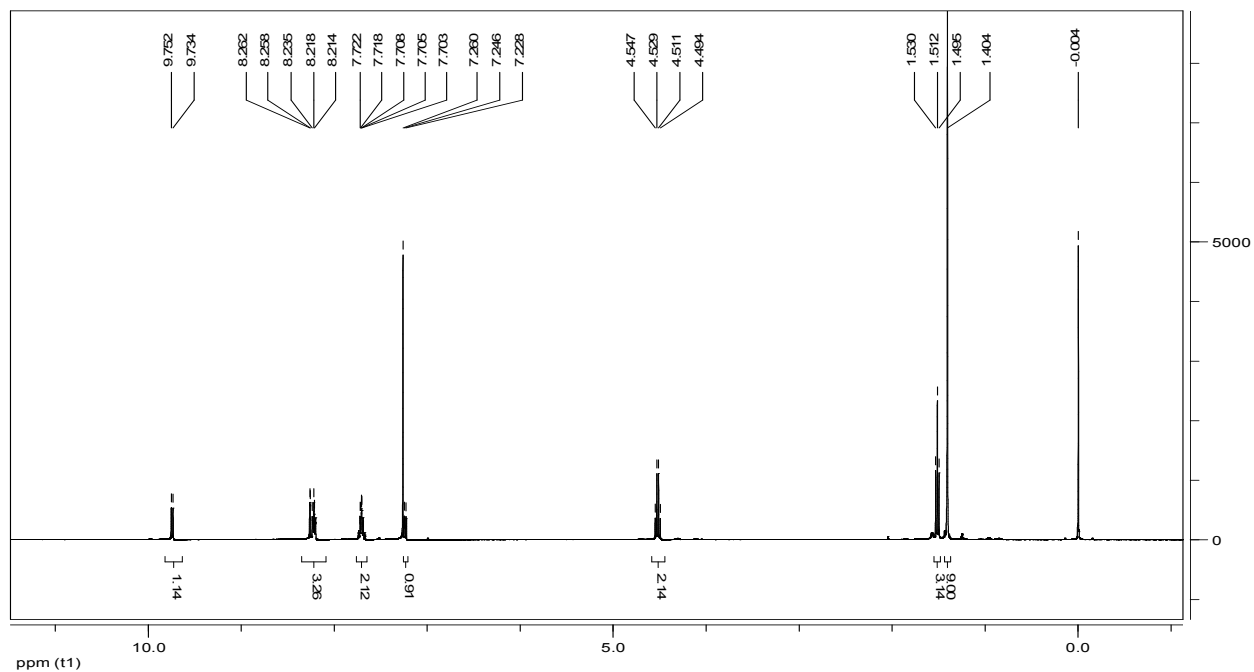
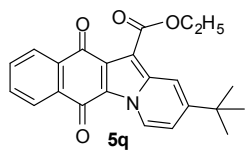


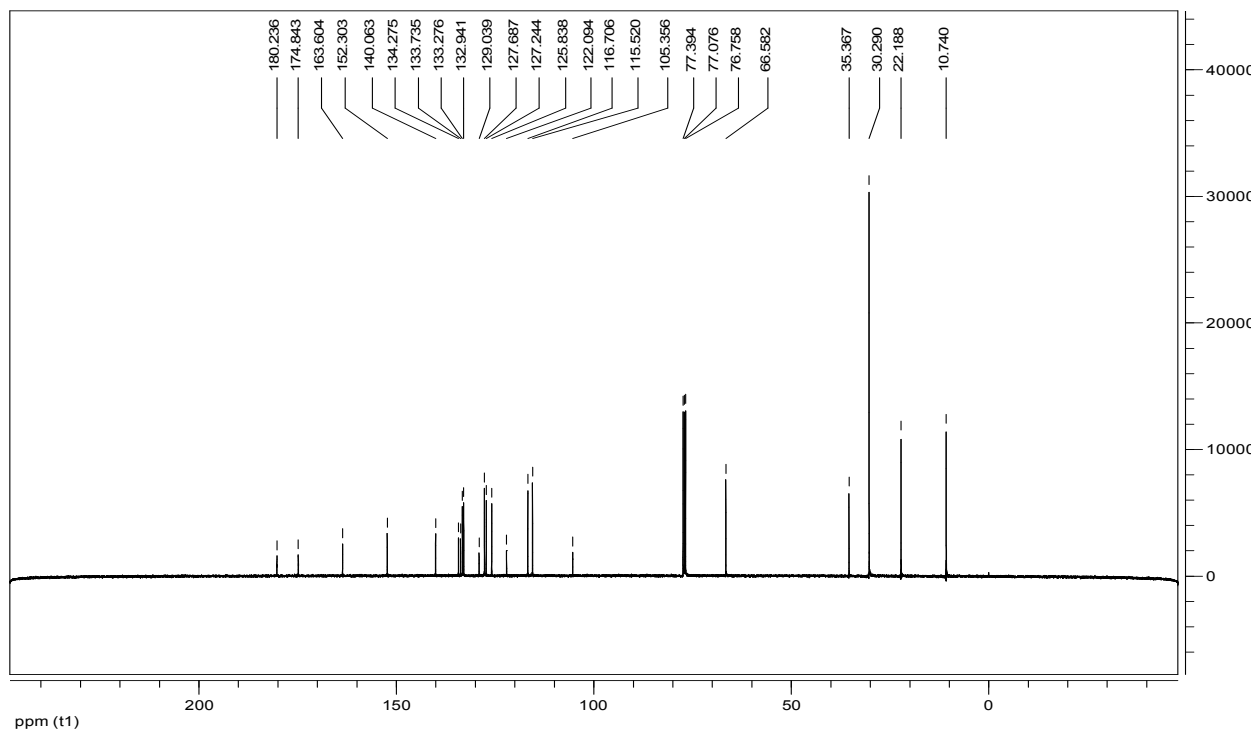
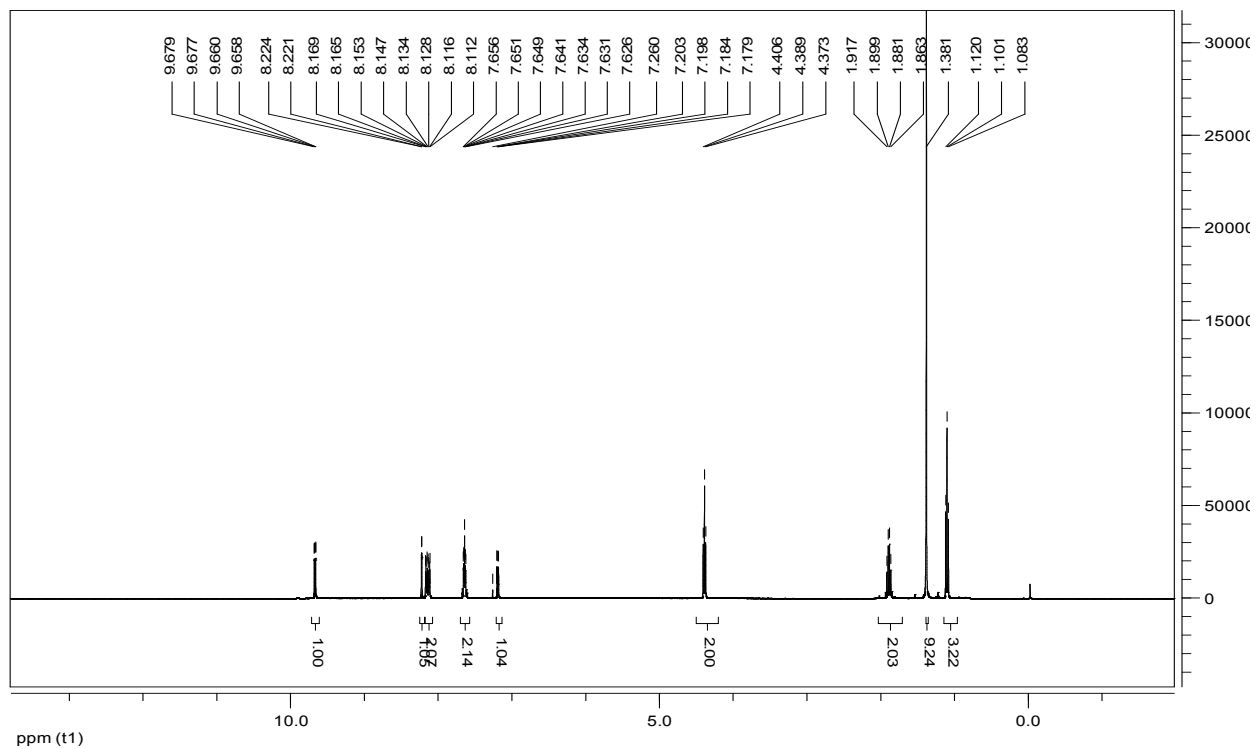
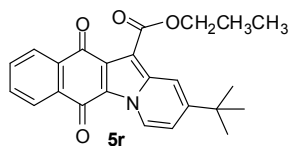


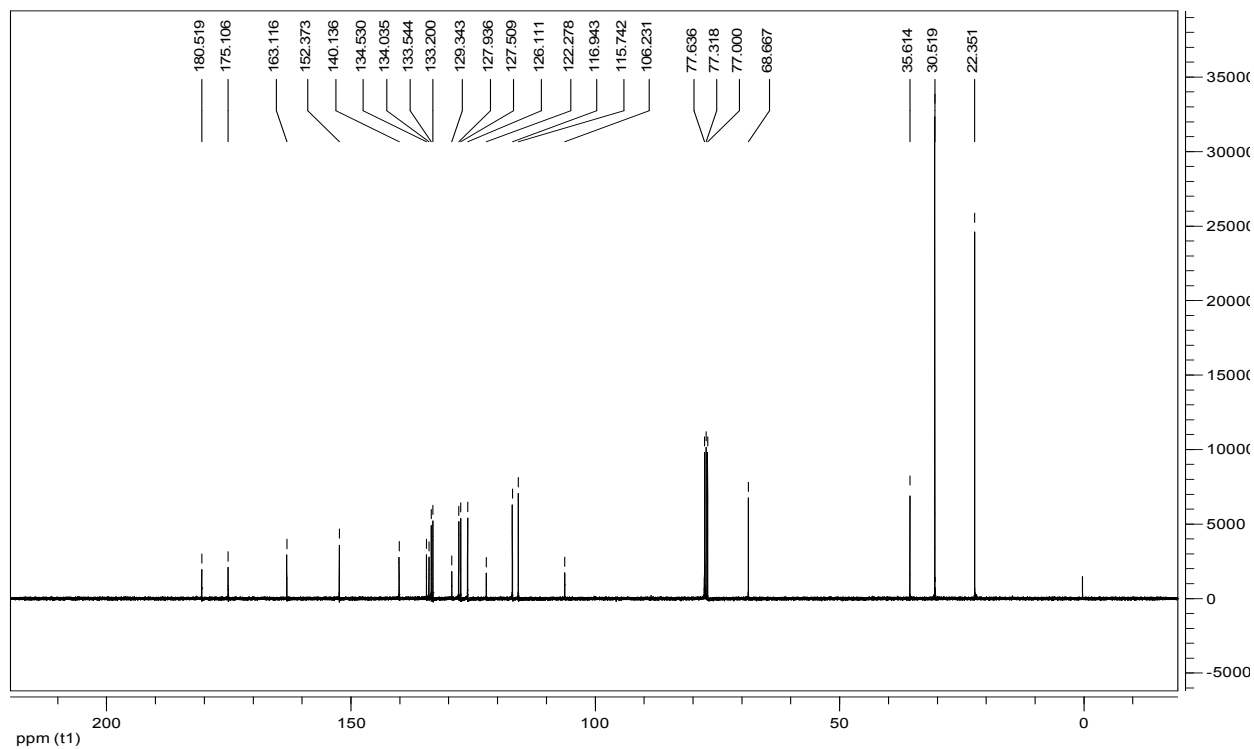
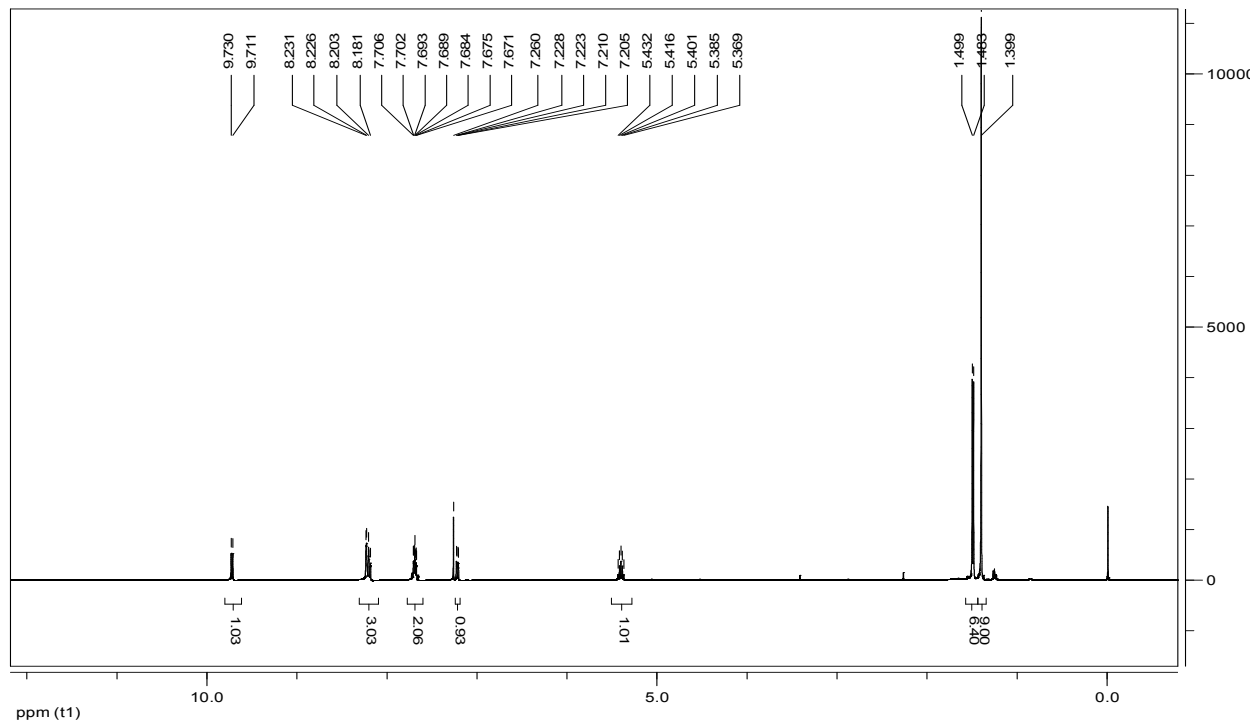
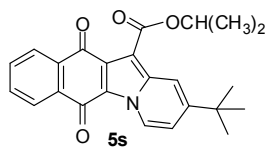


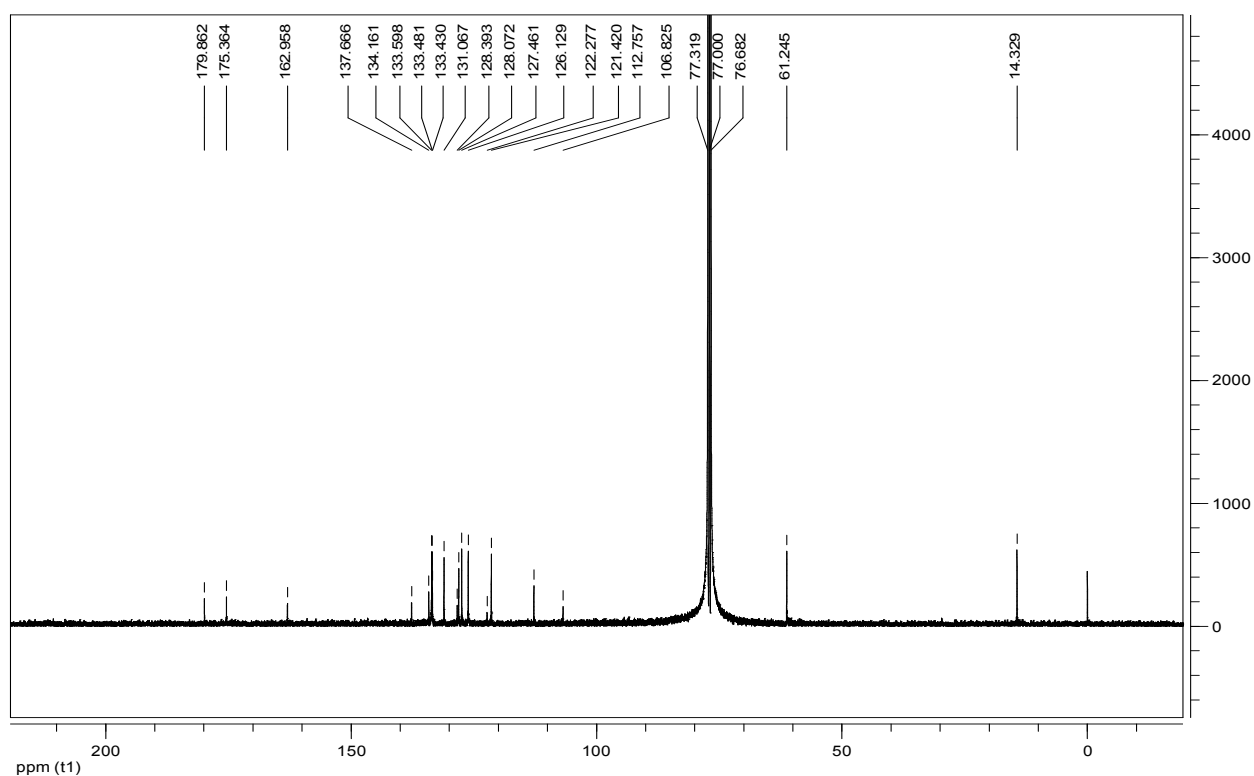
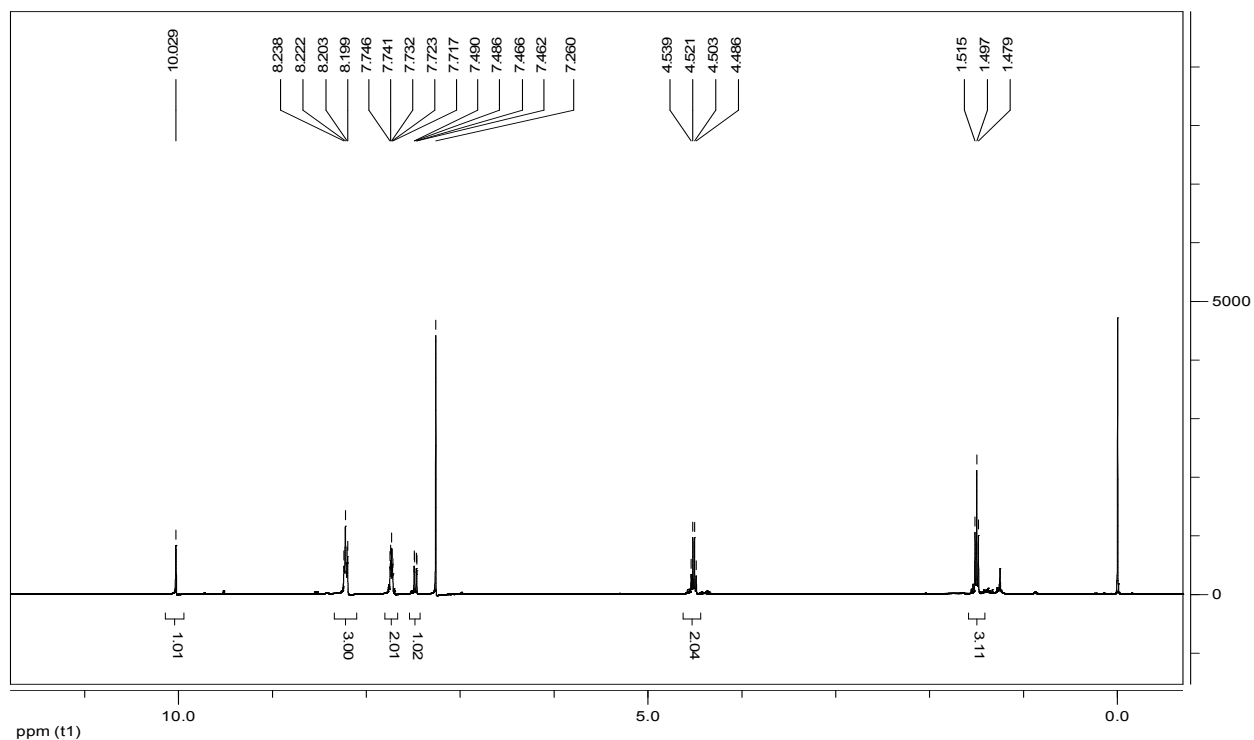
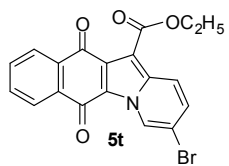


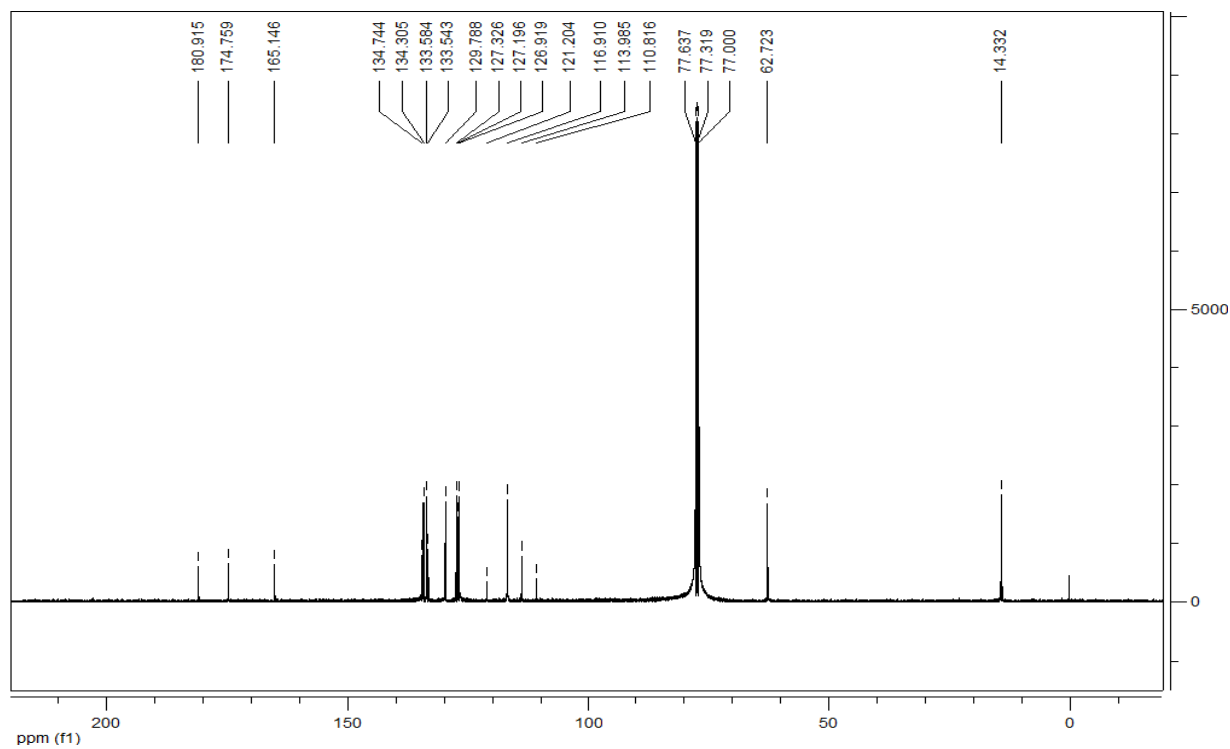
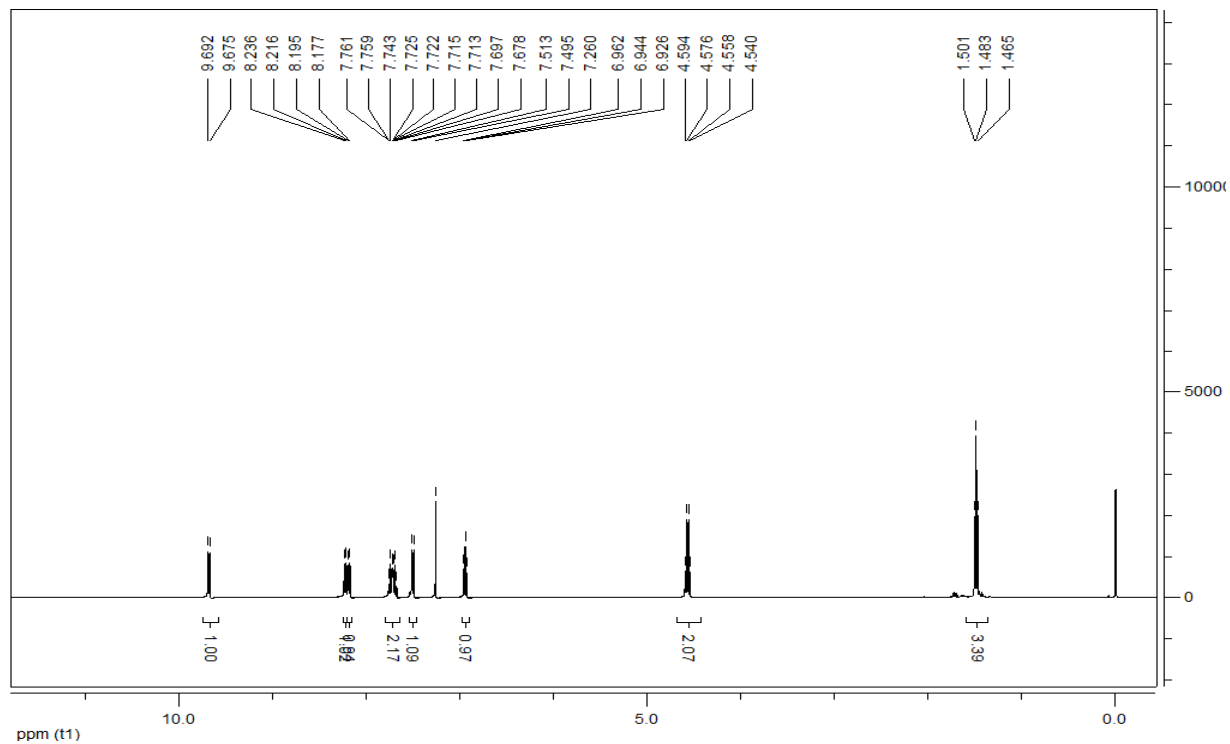
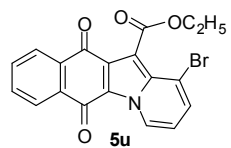


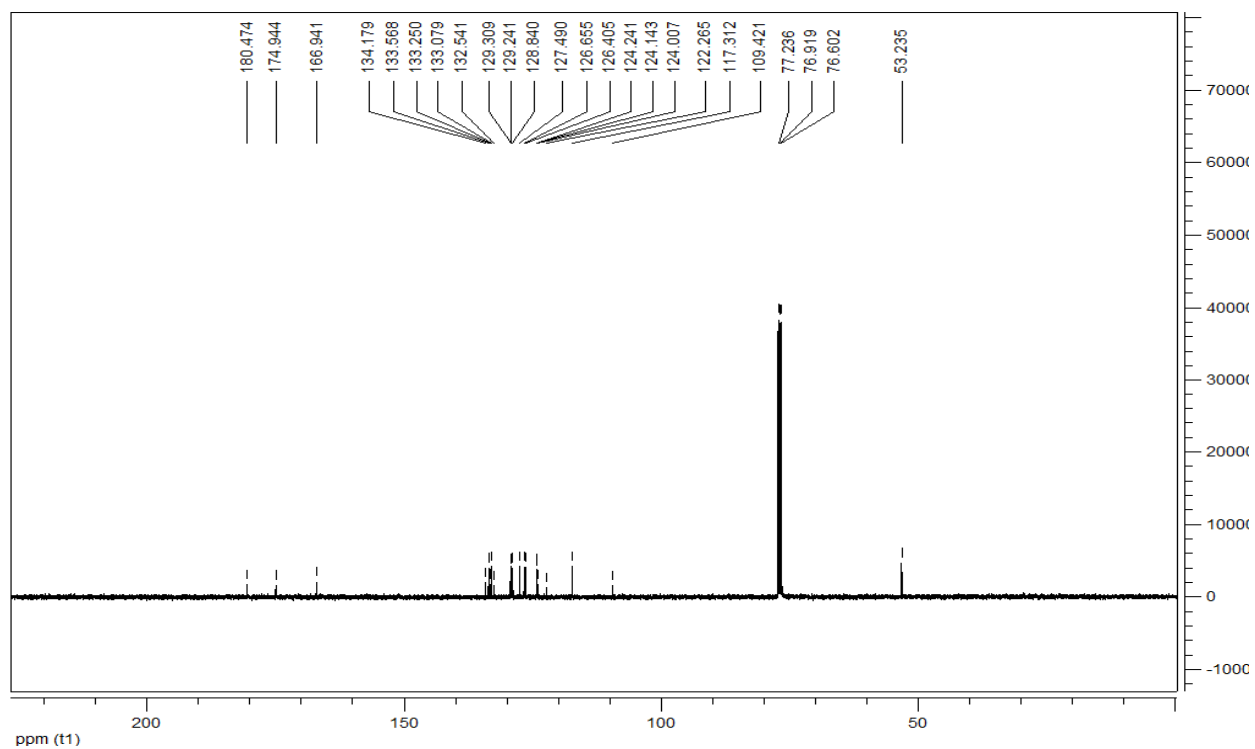
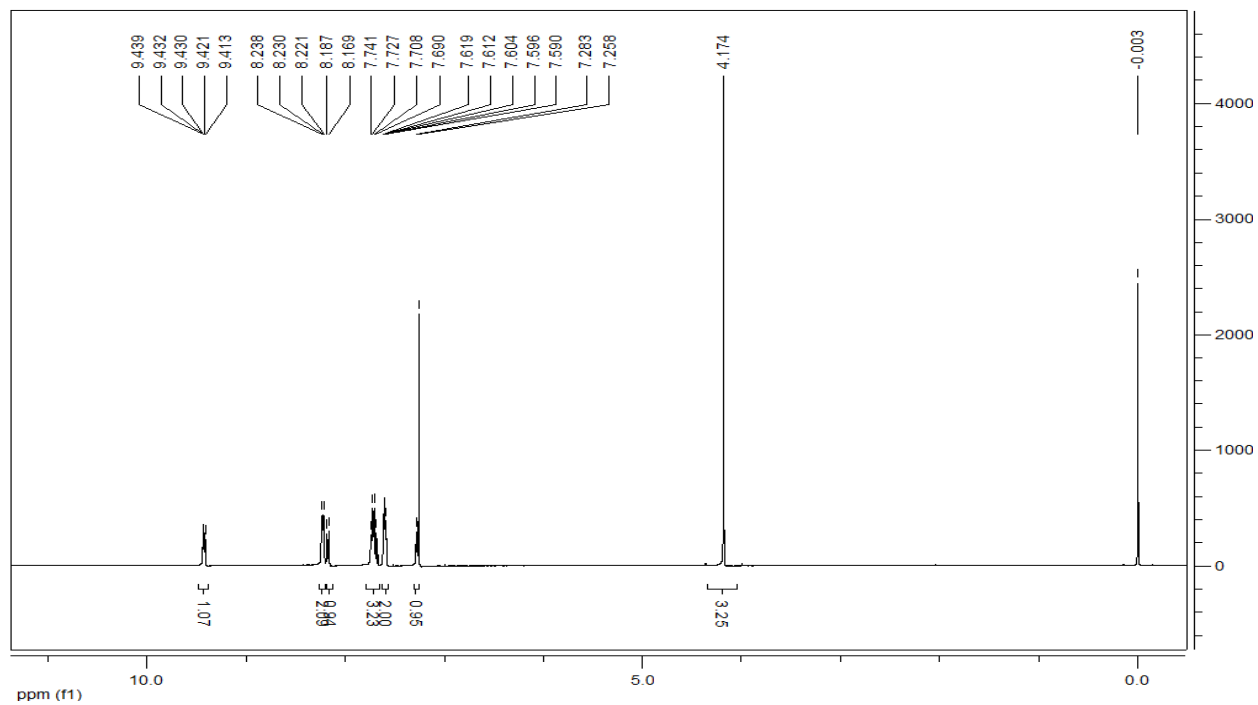
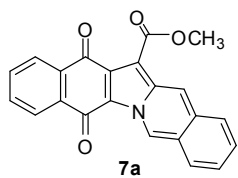


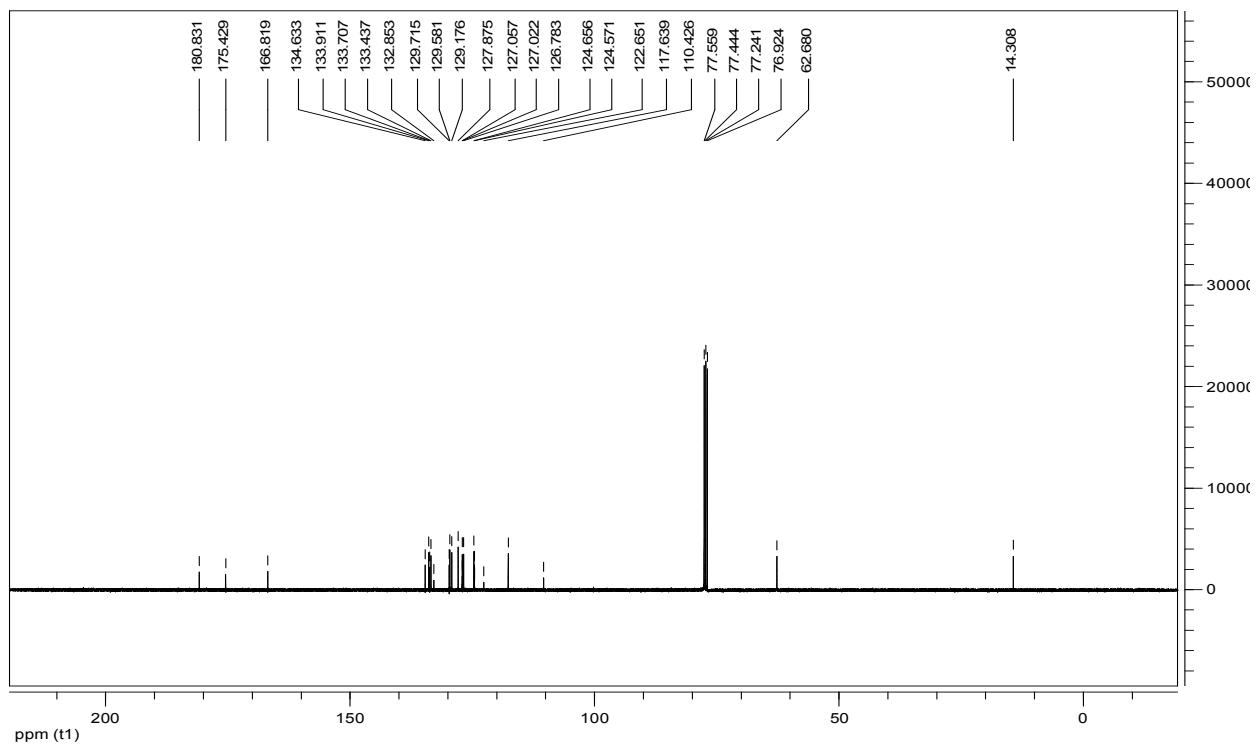
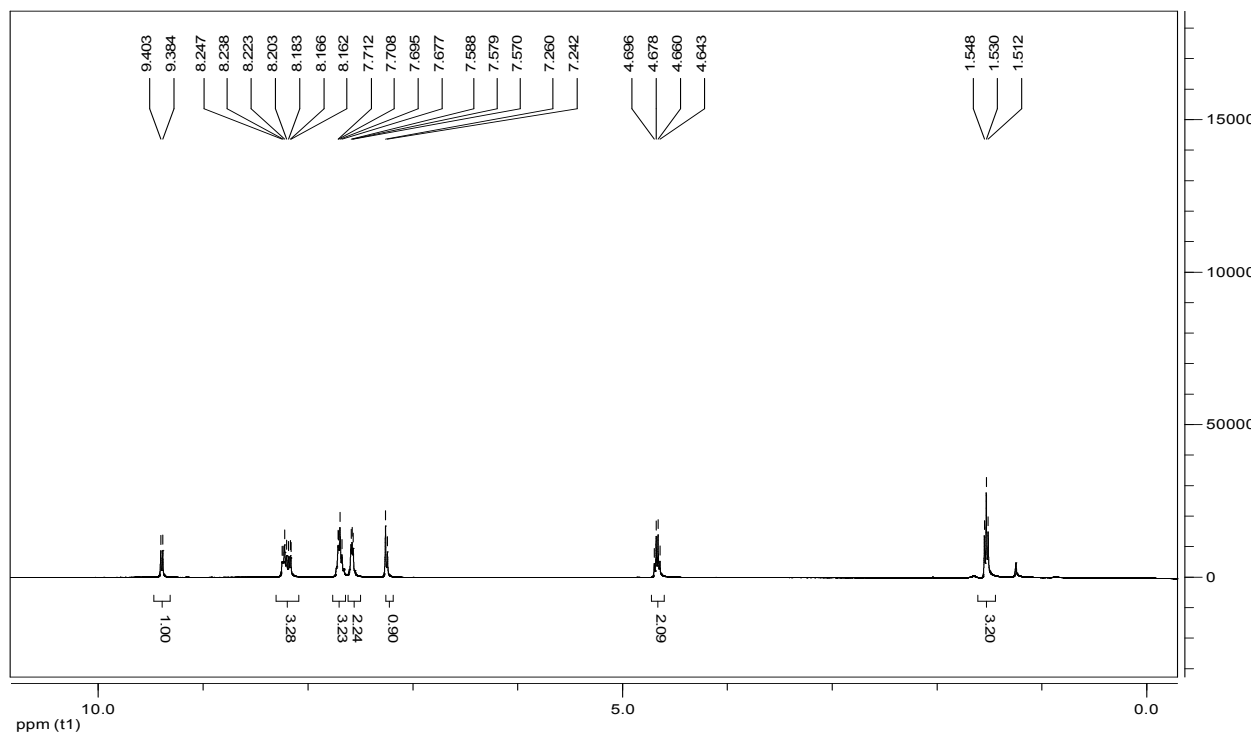
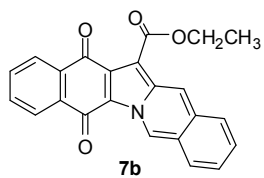


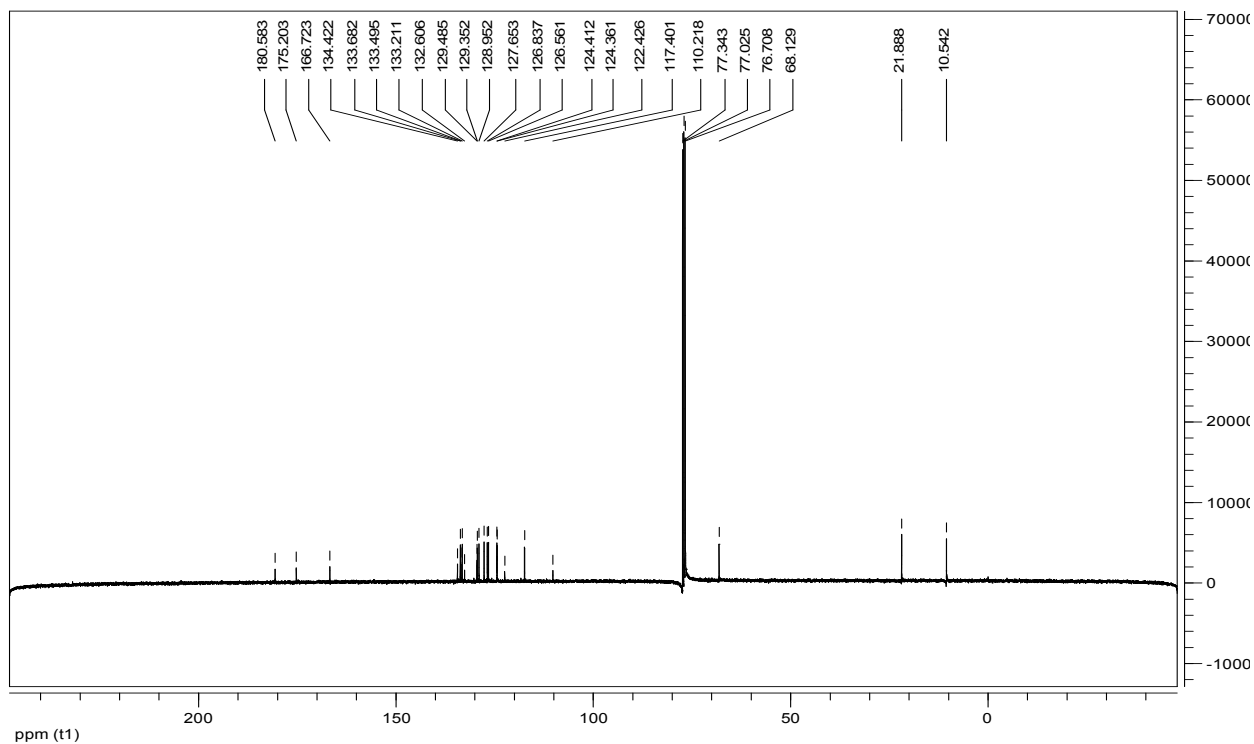
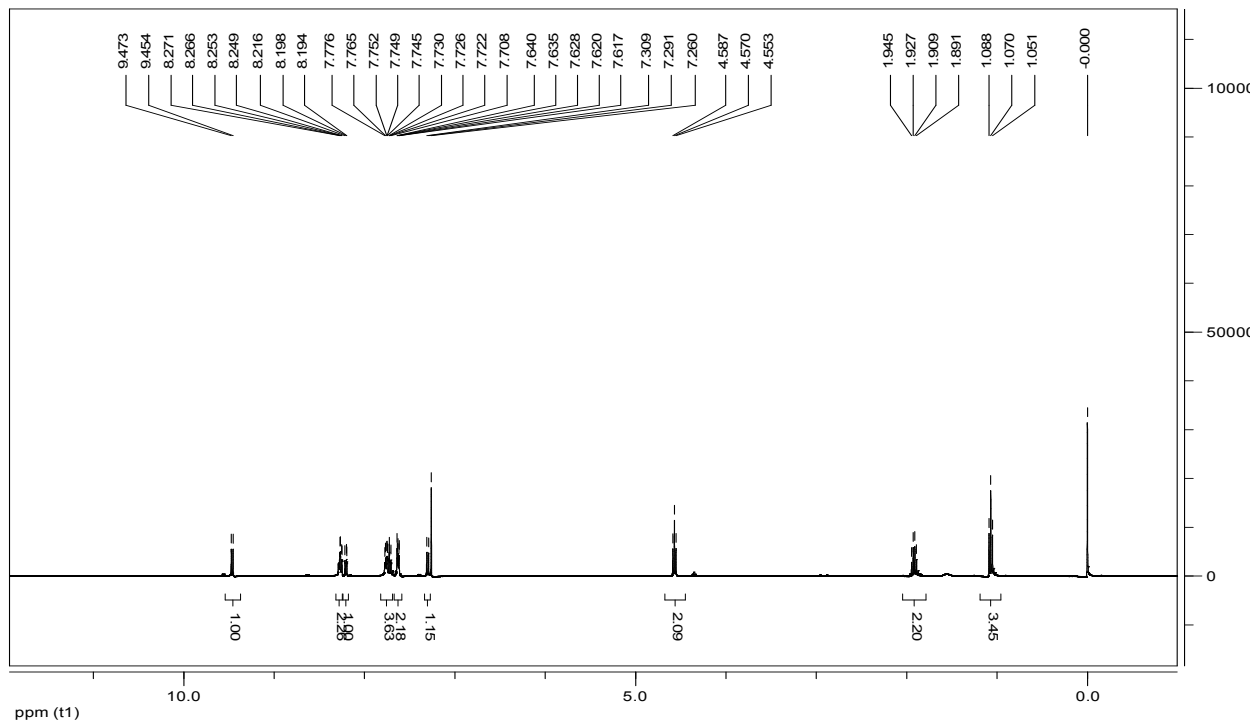
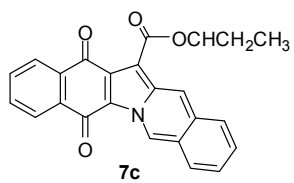


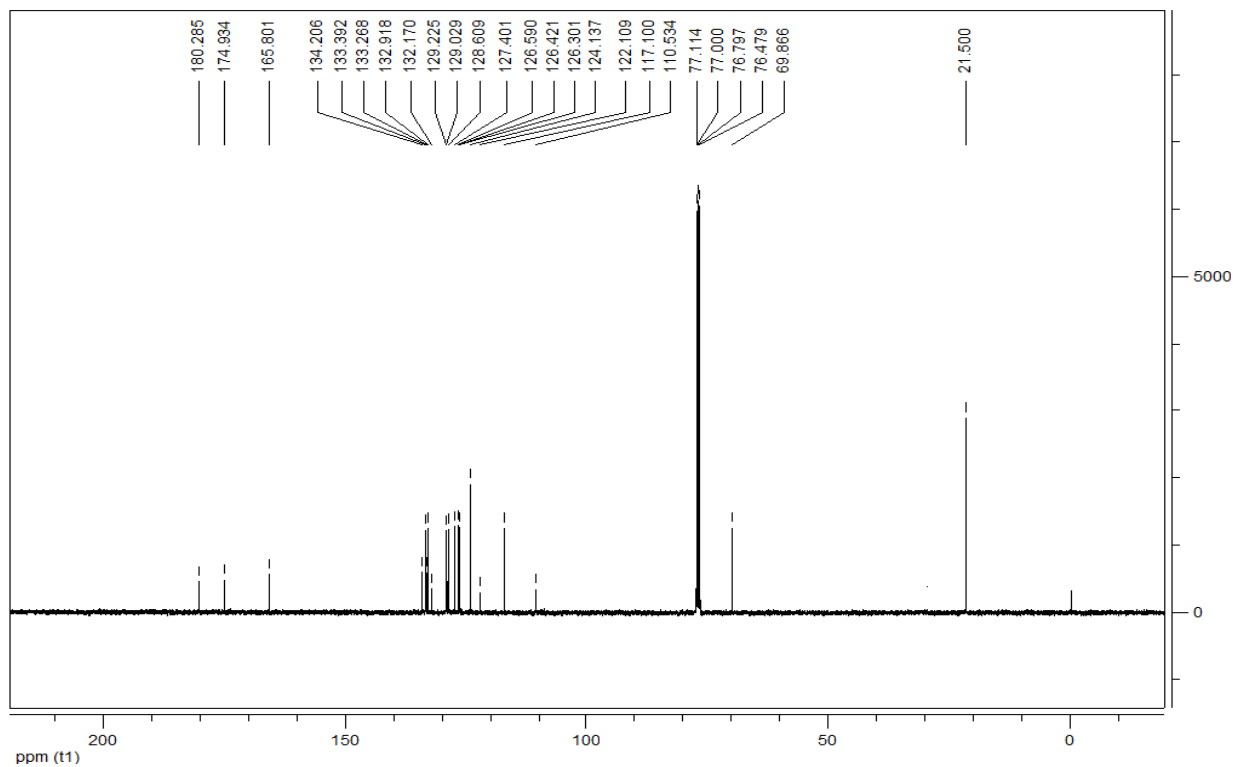
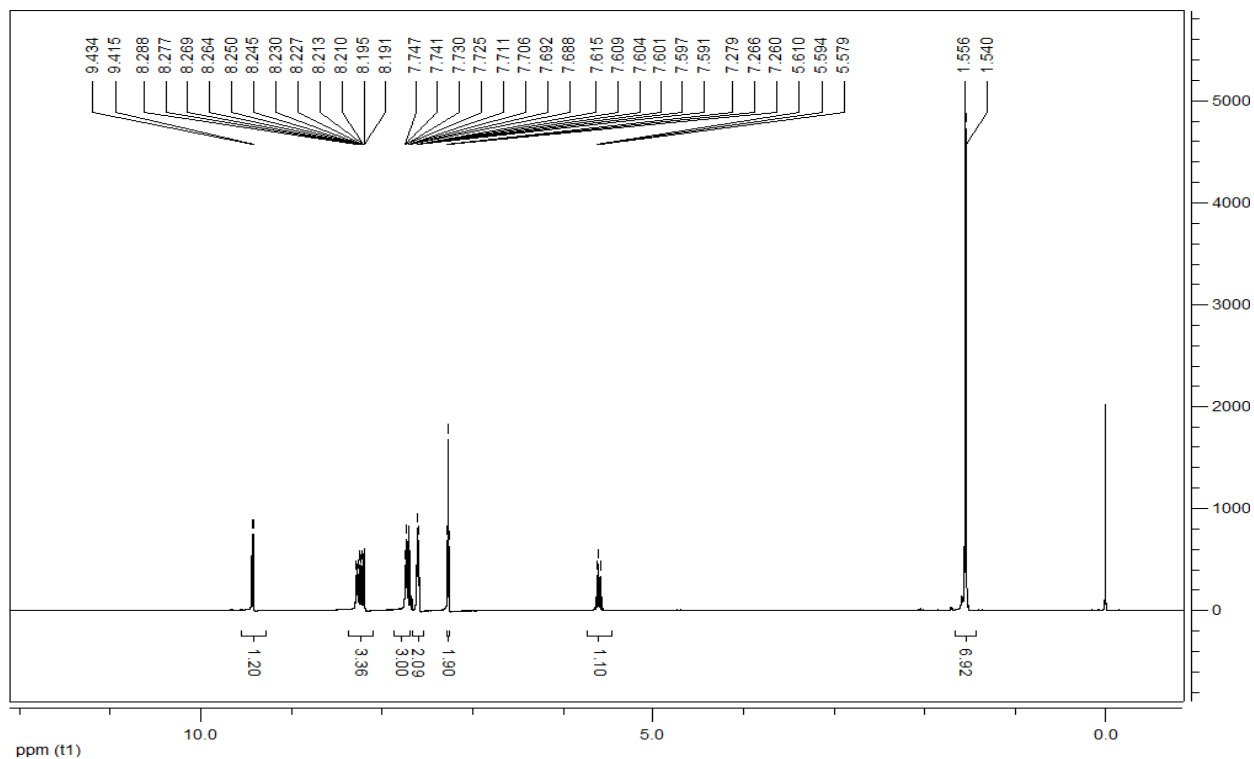
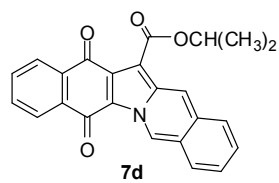


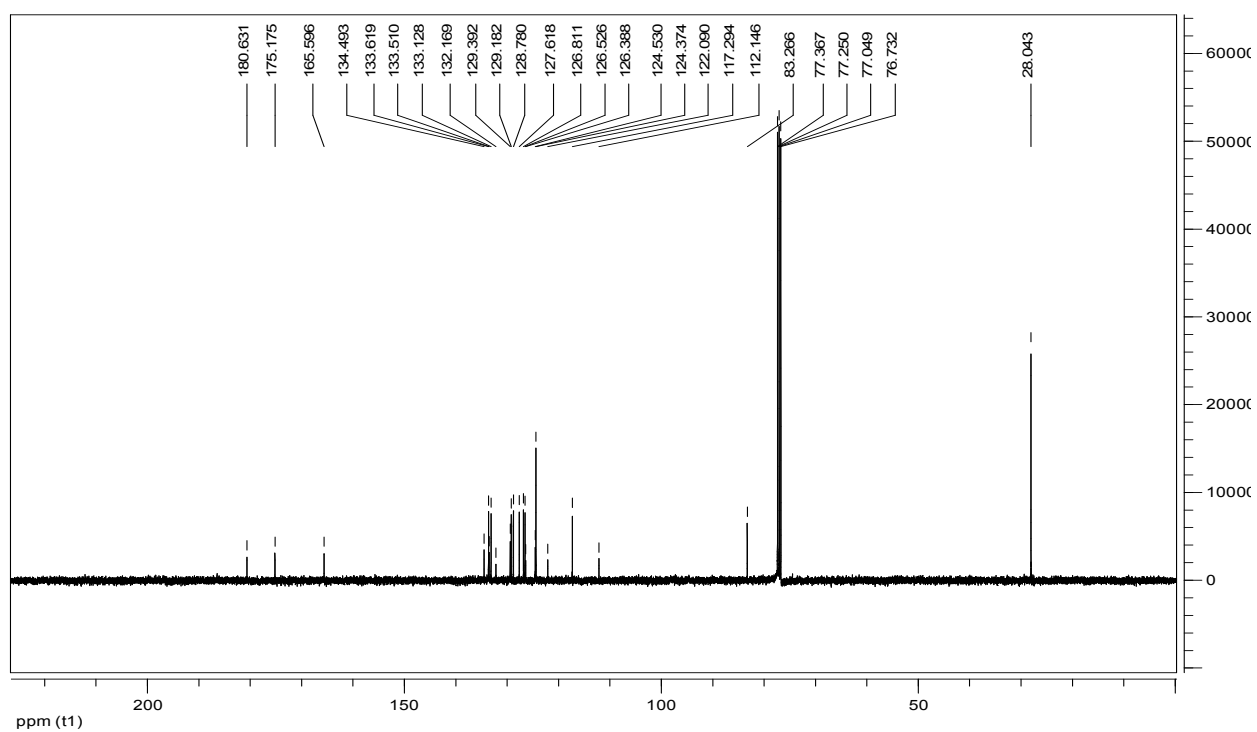
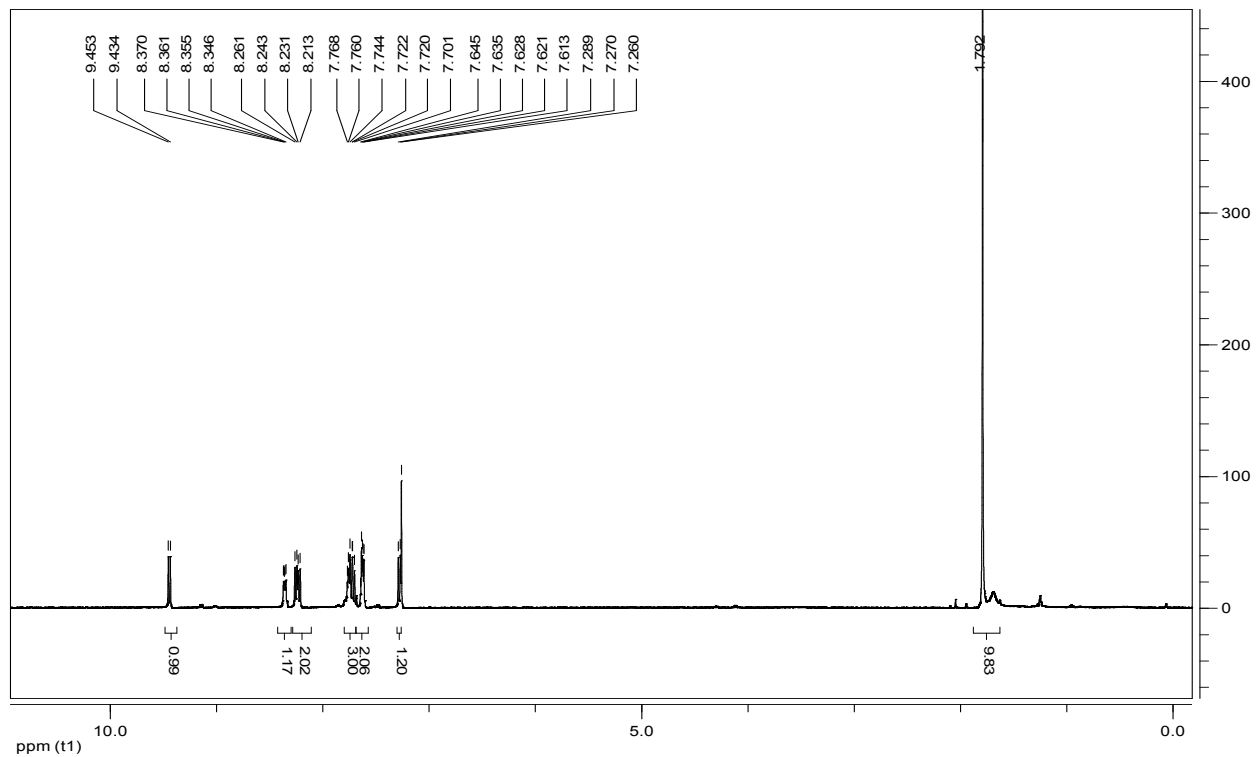
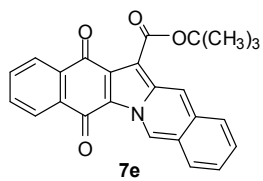












X-ray crystallographic data of compound **4e**

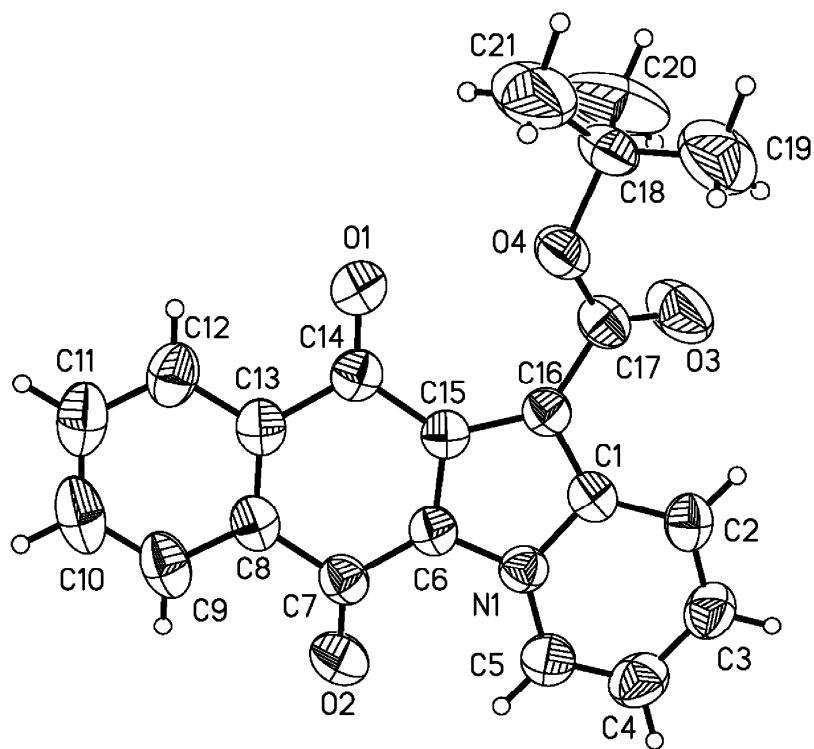


Figure 1. ORTEP drawing of **4e**