

Supporting Information

Synthesis of 2-Methylquinoxaline Derivatives from Glycerol and Diamines Catalyzed by Iridium Complexes Bearing an *N*-Heterocyclic Carbene Ligand

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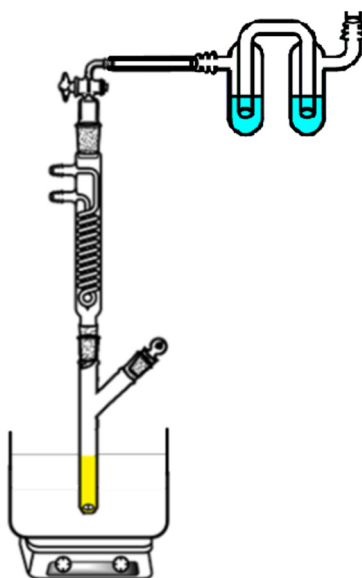


Figure S1. Illustration of the reaction setup for optimization of the reaction conditions for the synthesis of 2-methyquinoxaline (**2a**) shown in Tables 1 and 2.

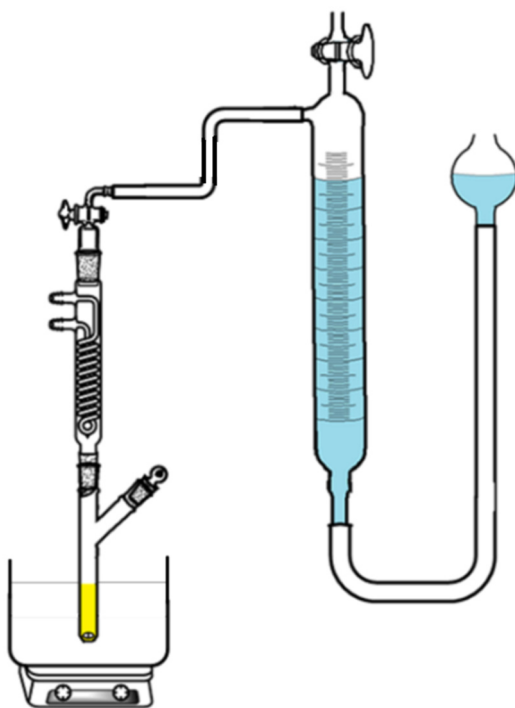


Figure S2. Illustration of the reaction setup for quantitative analysis of the evolved hydrogen along with the formation of **2a** shown in Scheme 3.

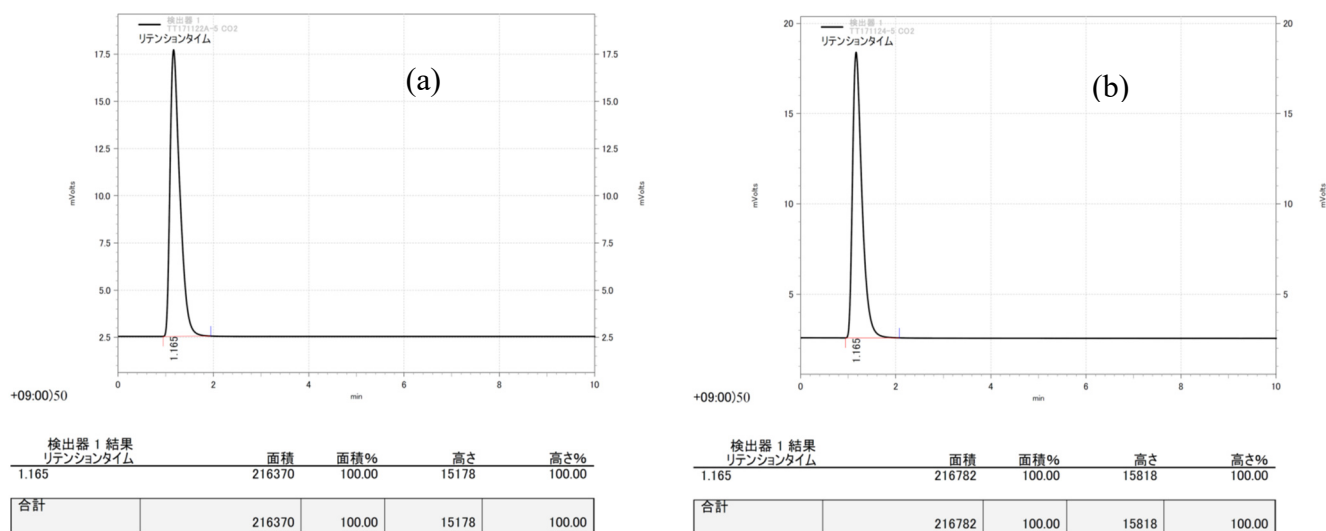
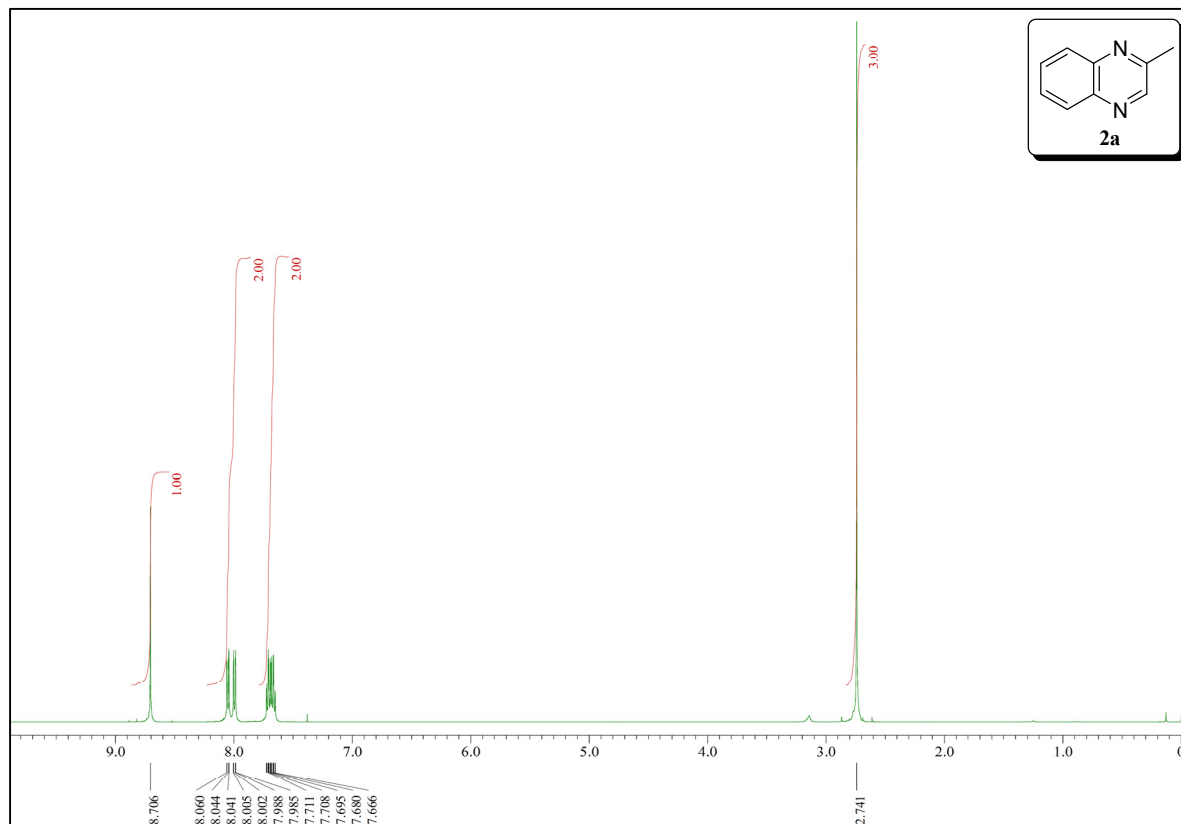


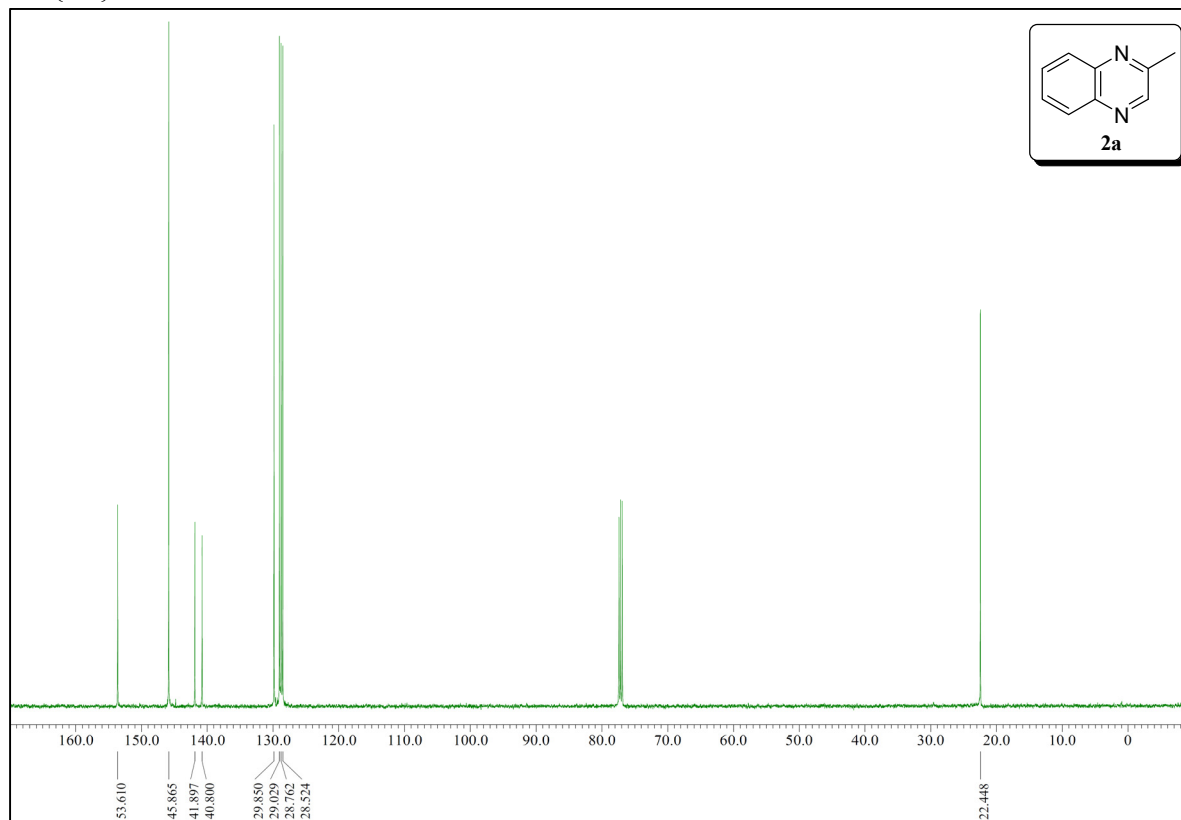
Figure S3. GC analysis of the evolved hydrogen along with the formation of **2a** shown in Scheme 3. (a) The chromatogram of the evolved gas along with the formation of **2a**. (b) The chromatogram of the standard hydrogen gas.

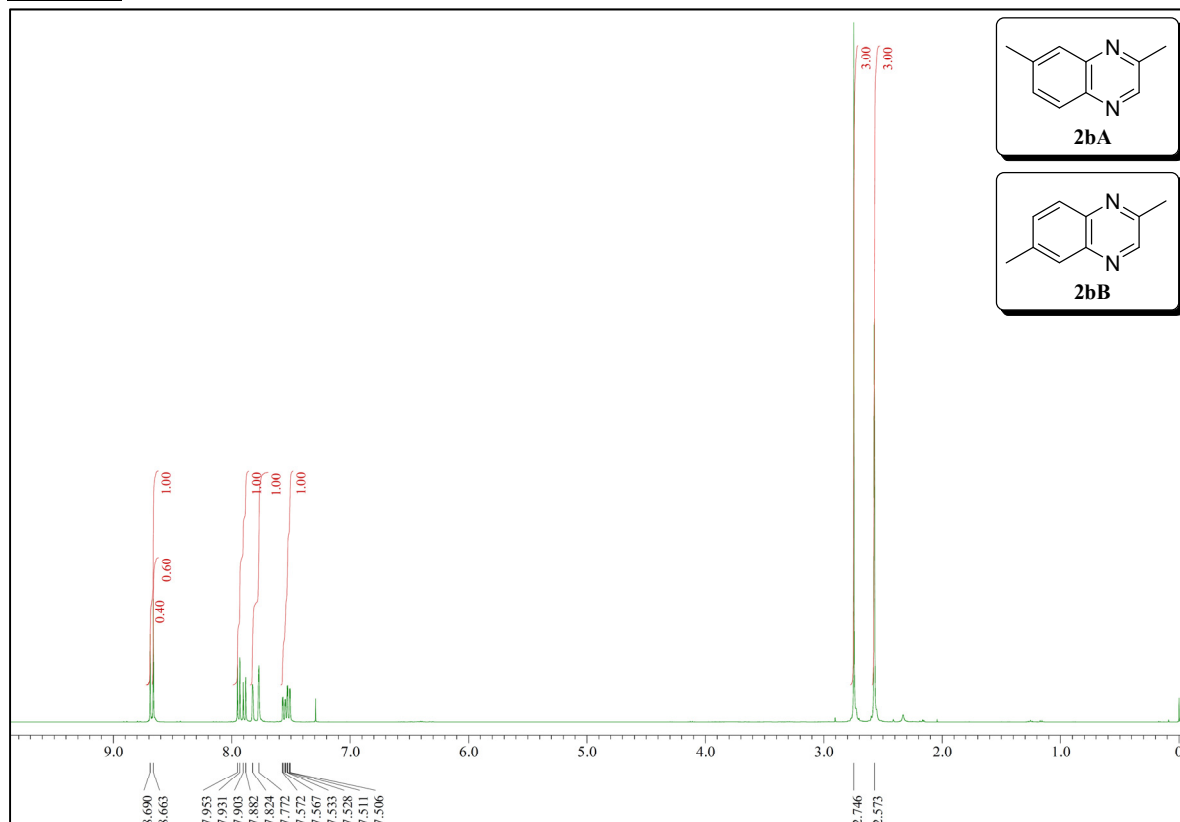
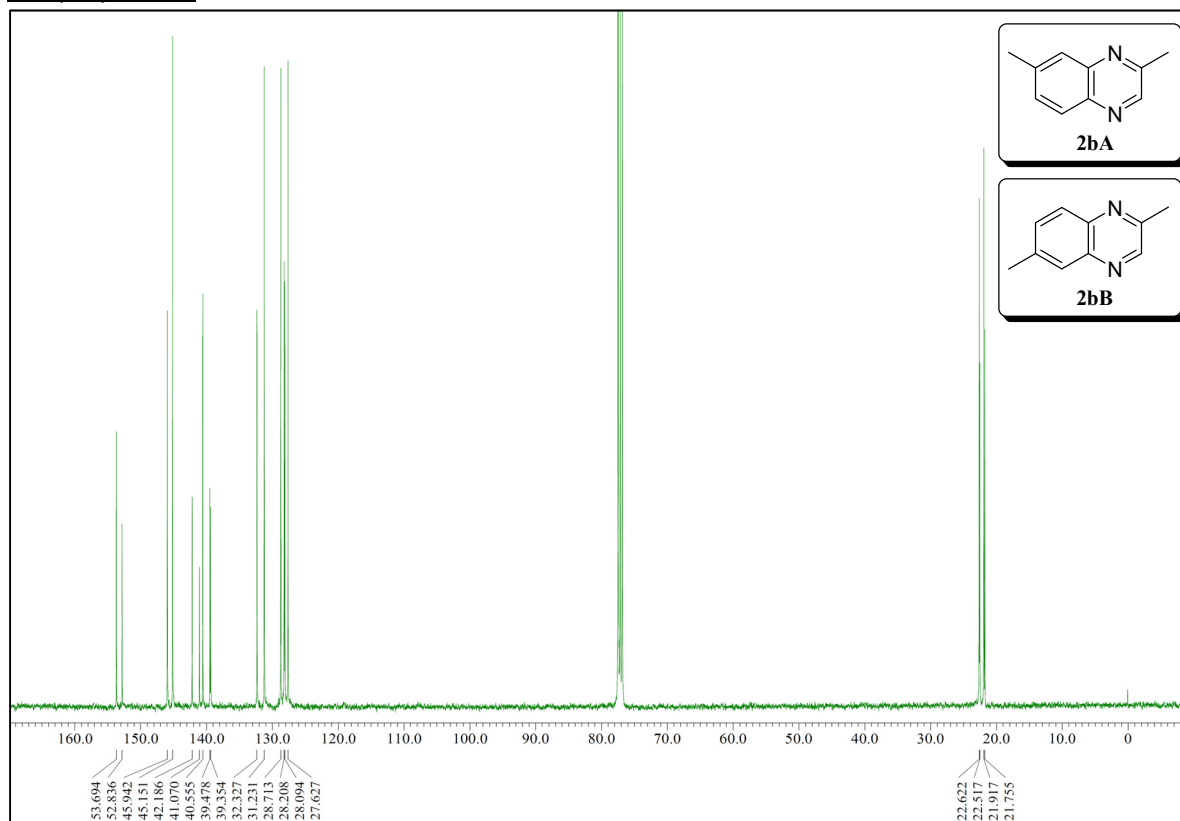
NMR charts of the organic products.

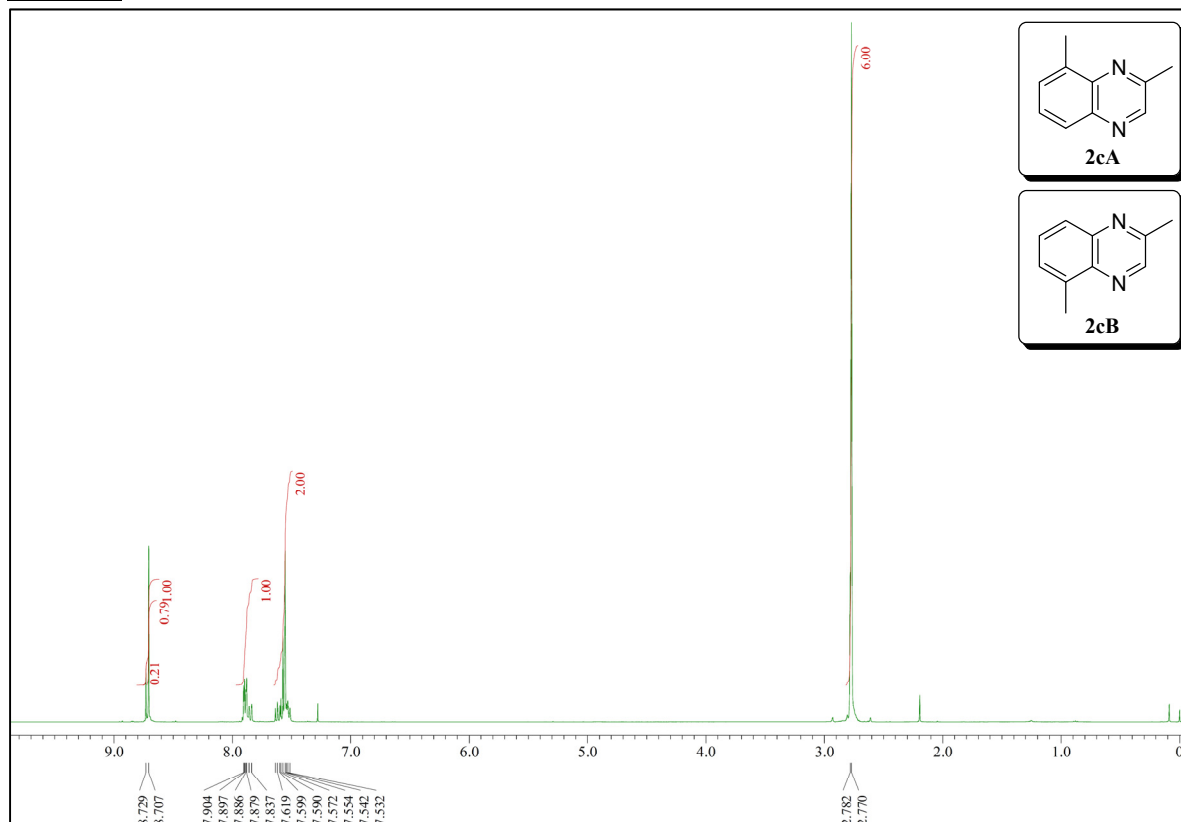
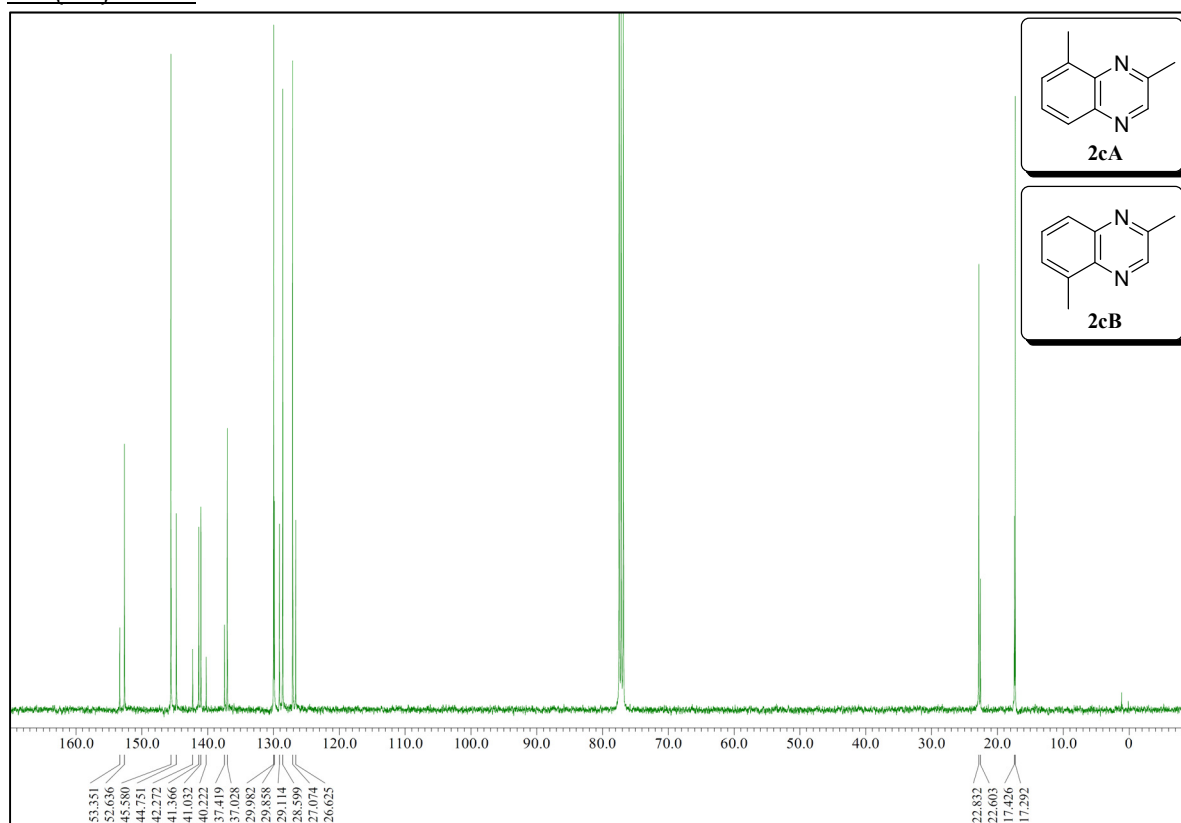
^1H NMR

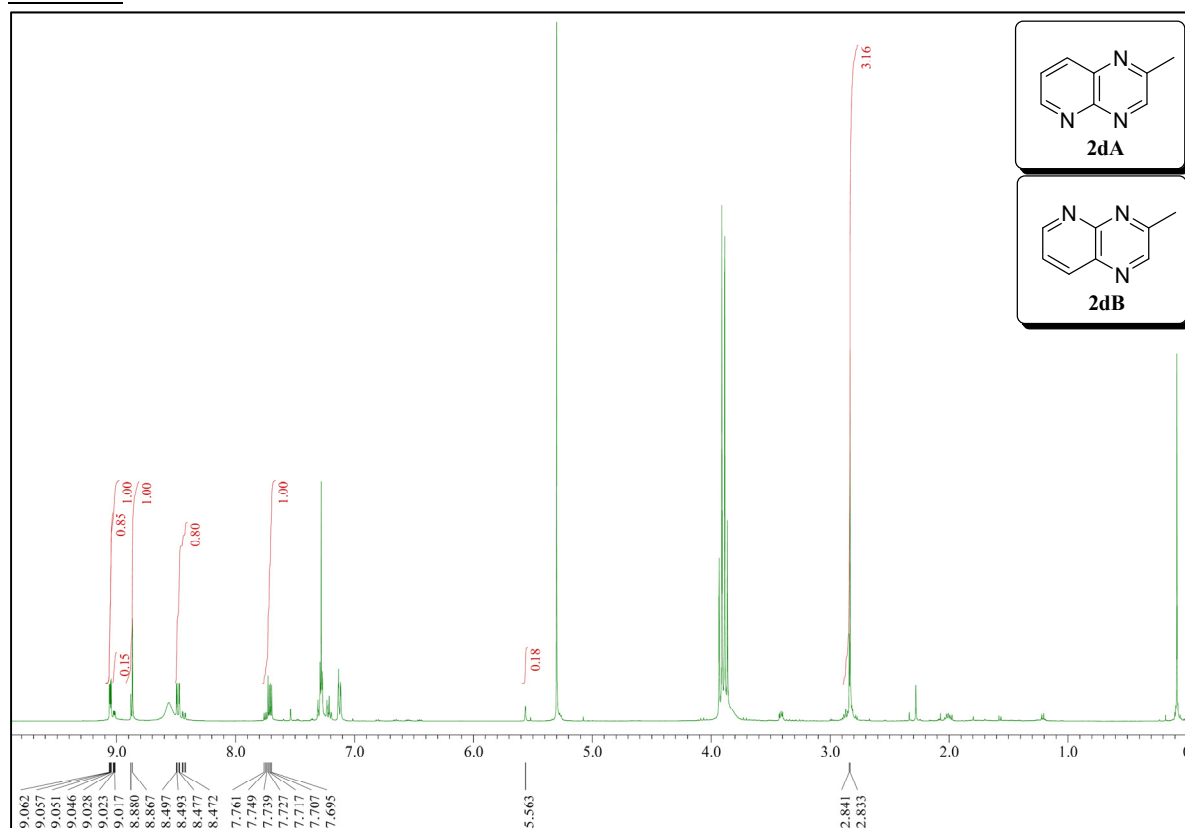


$^{13}\text{C}\{^1\text{H}\}$ NMR

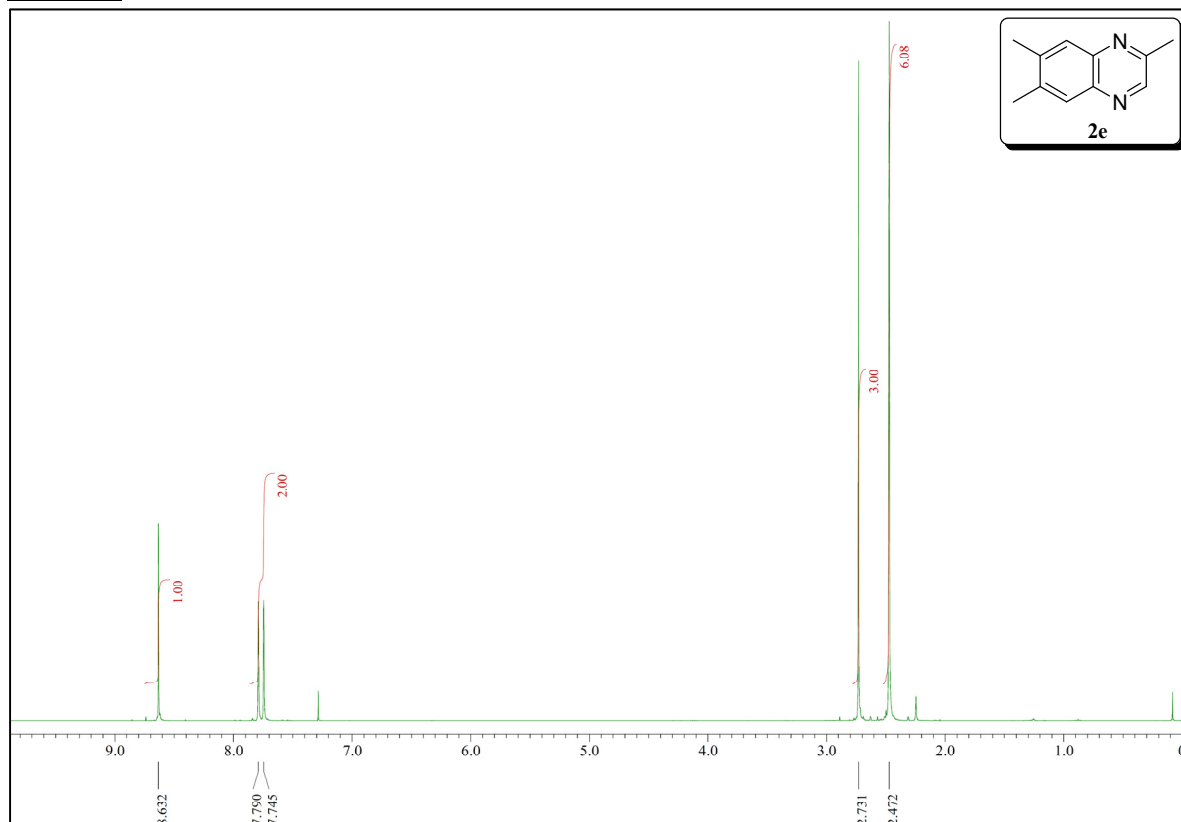
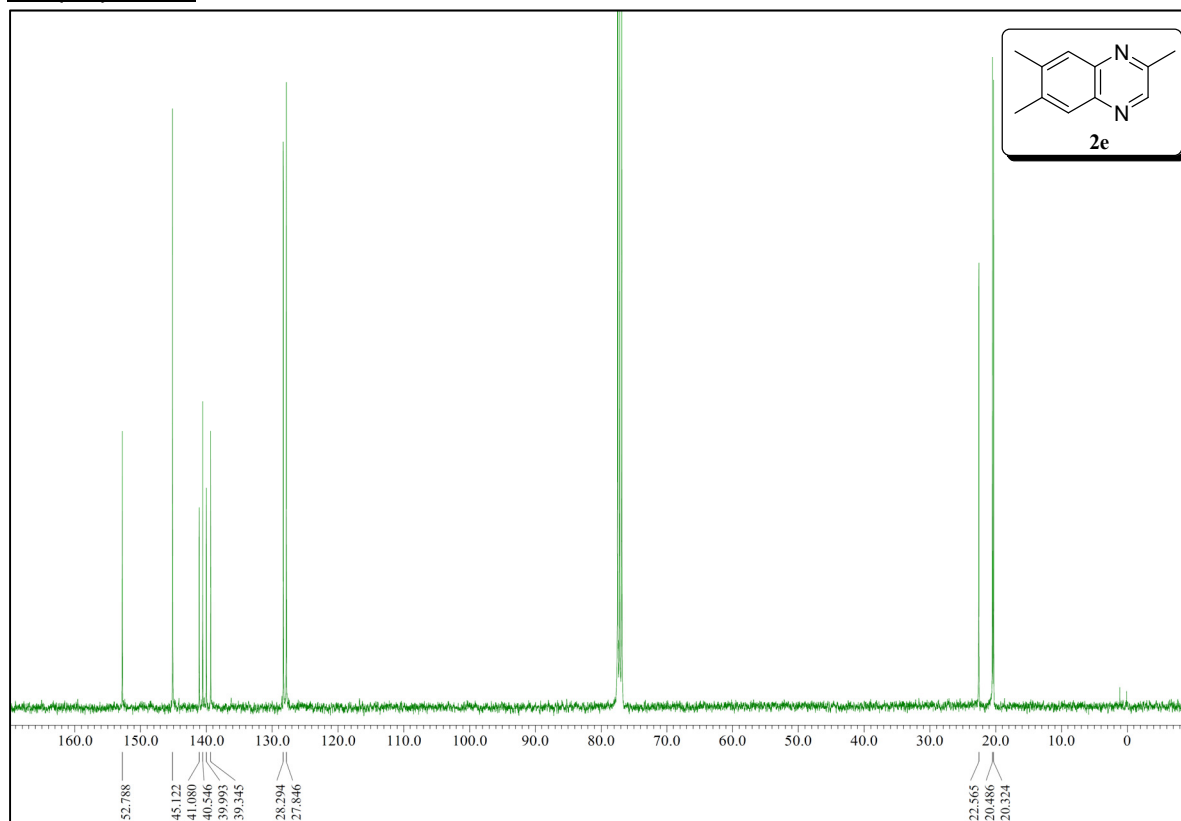


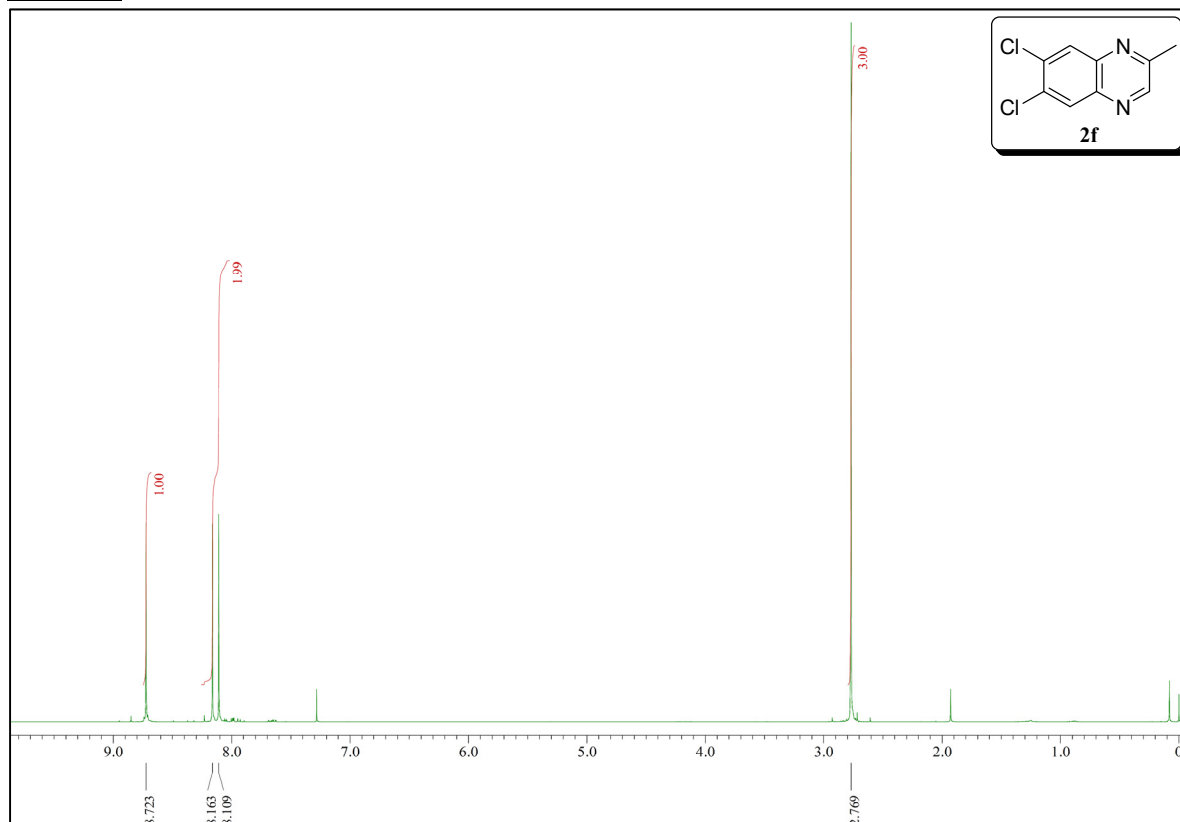
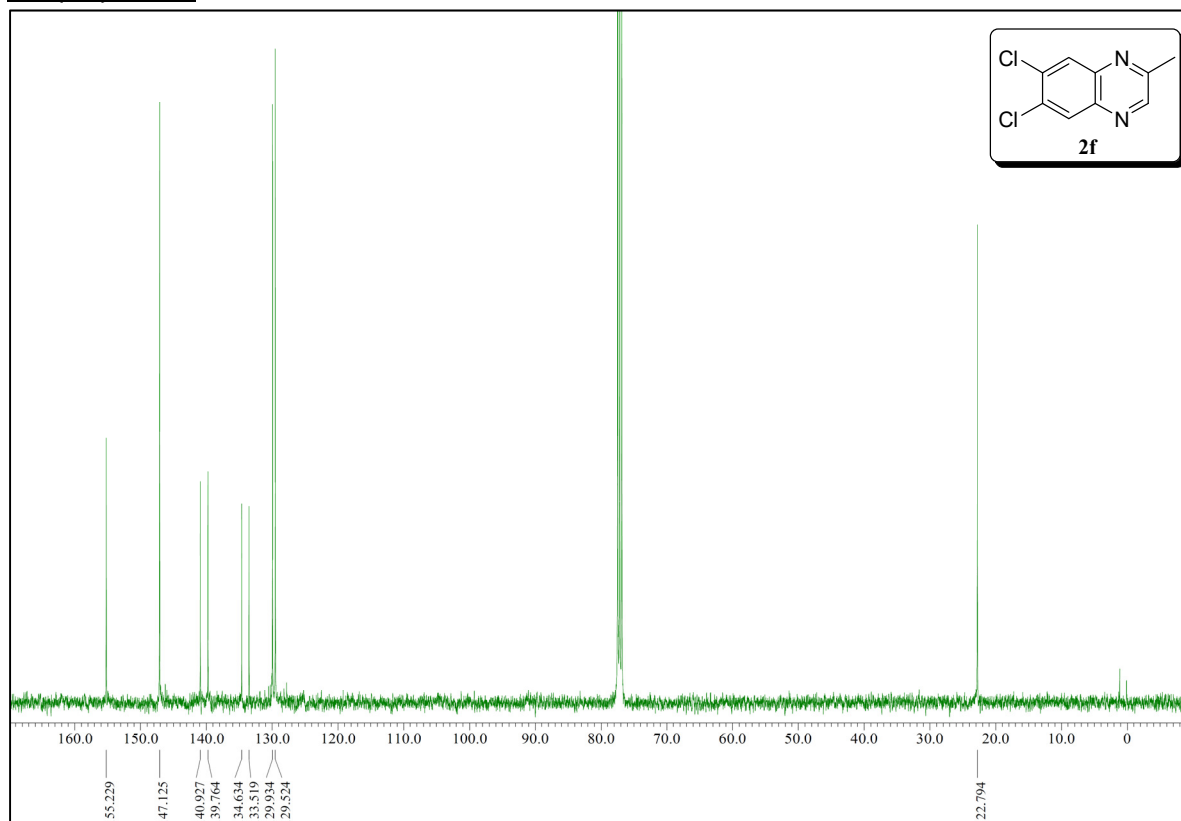
^1H NMR $^{13}\text{C}\{^1\text{H}\}$ NMR

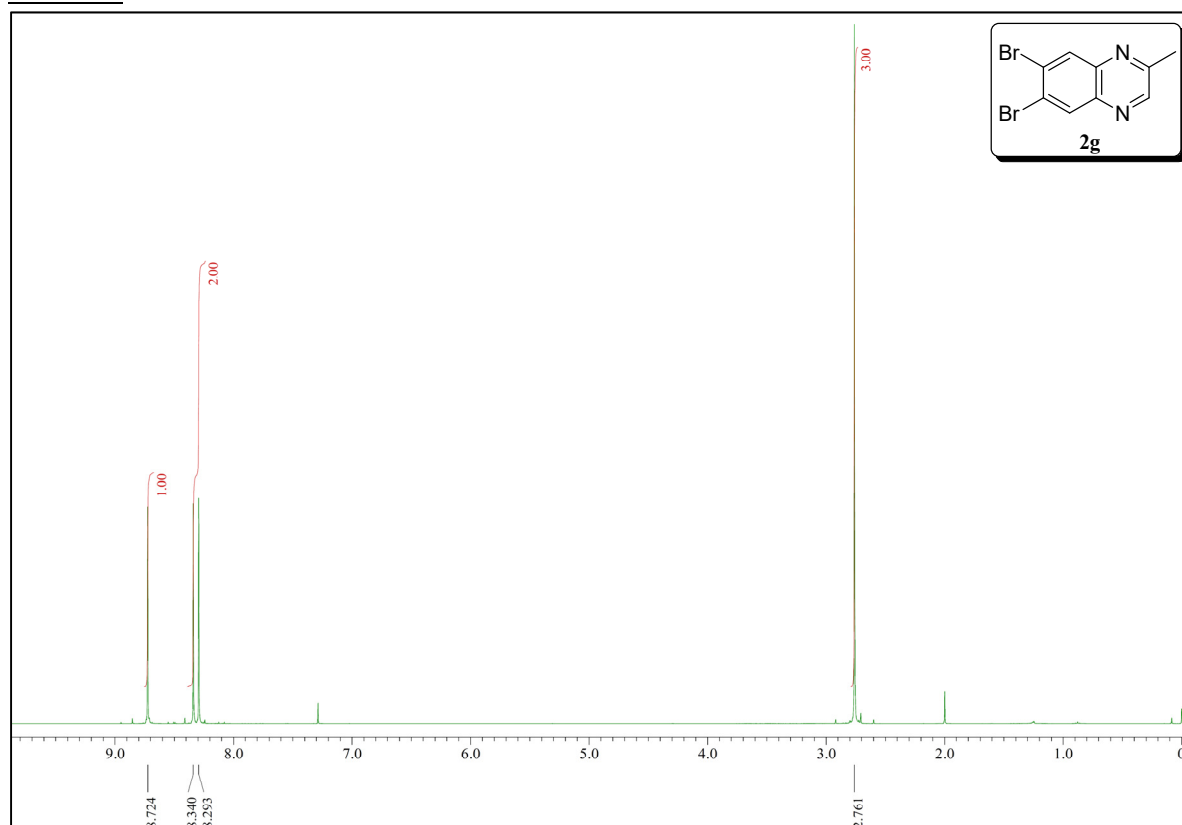
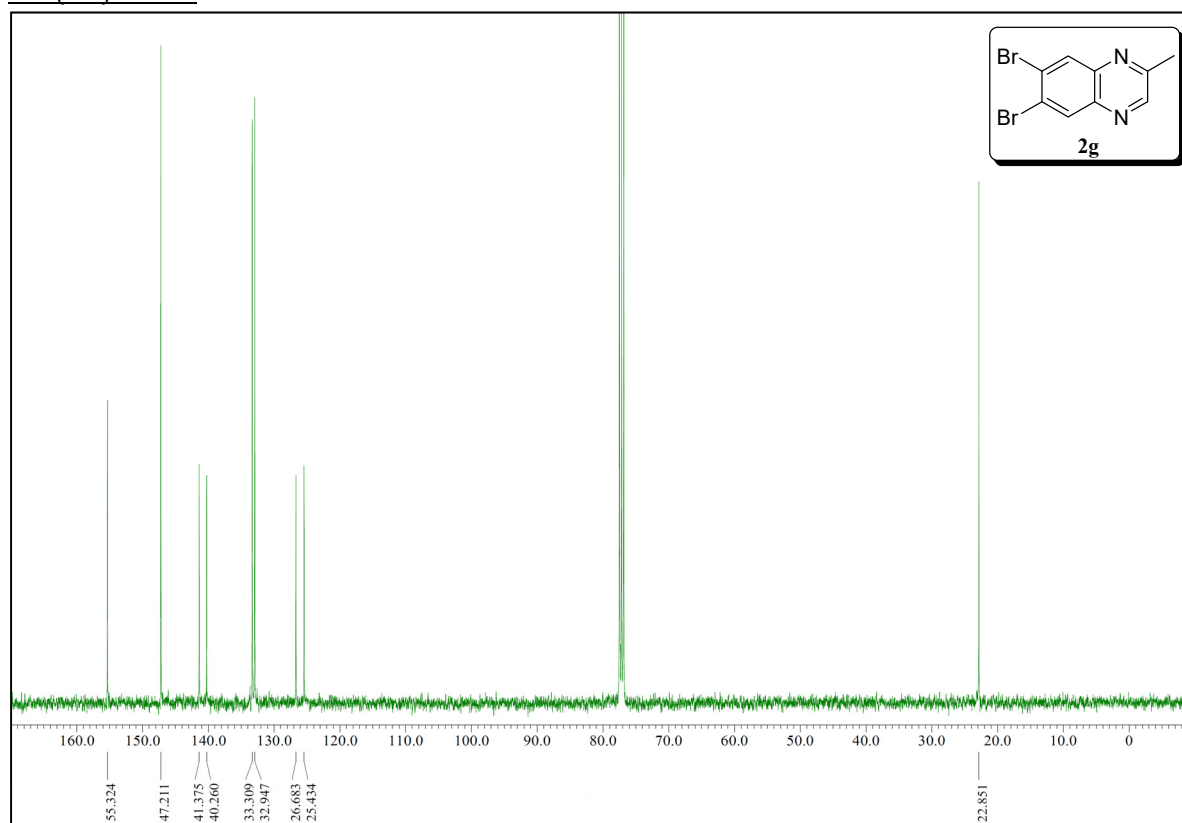
^1H NMR $^{13}\text{C}\{^1\text{H}\}$ NMR

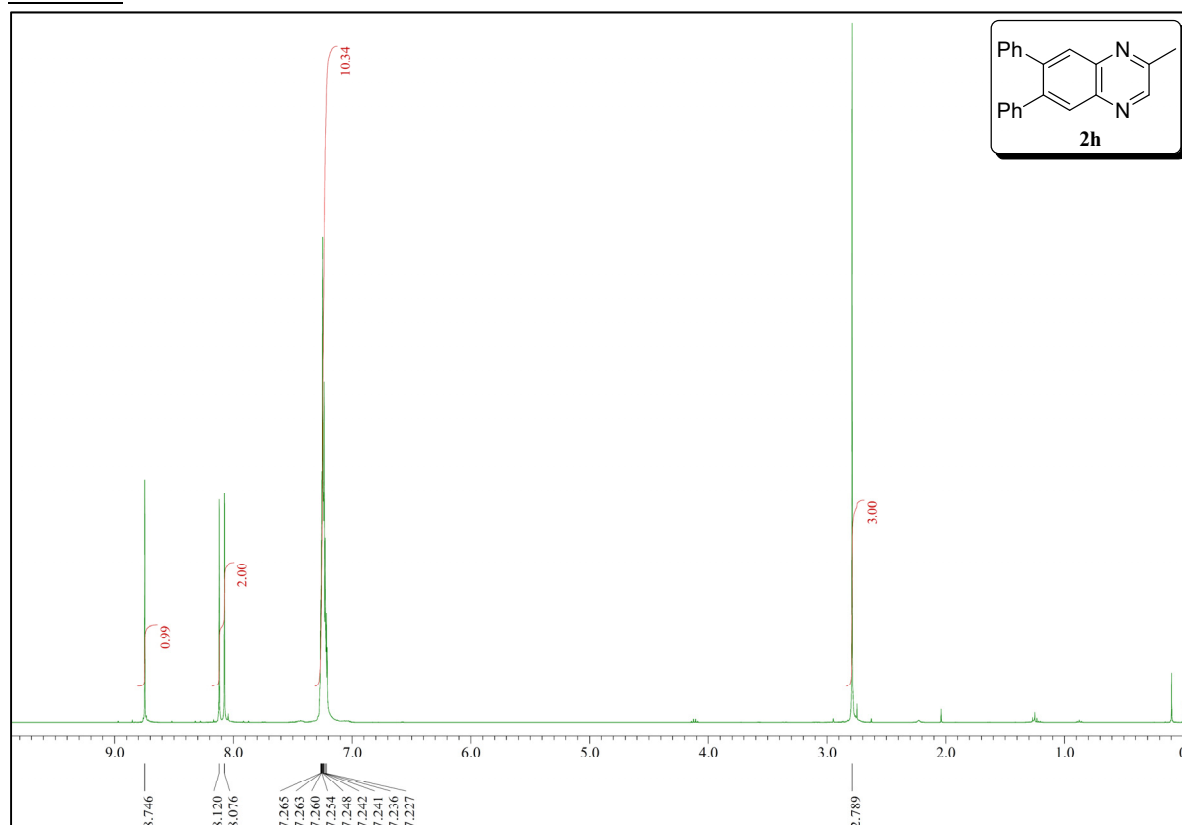
¹H NMR

A signal at 5.563 ppm is due to triphenylmethane which was used as an internal standard.

^1H NMR $^{13}\text{C}\{^1\text{H}\}$ NMR

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