

Supplementary Material

Synthesis of *meso*-tetraarylthienylporphyrins by Suzuki-Miyaura cross-coupling reaction and studying their UV-Vis absorption spectra

Ibrahim Elghamry*, Mamdouh Abdelsalam, Yasair Al-Faiyz, Meshail Al-Gadry, and Norah Al-Taysan

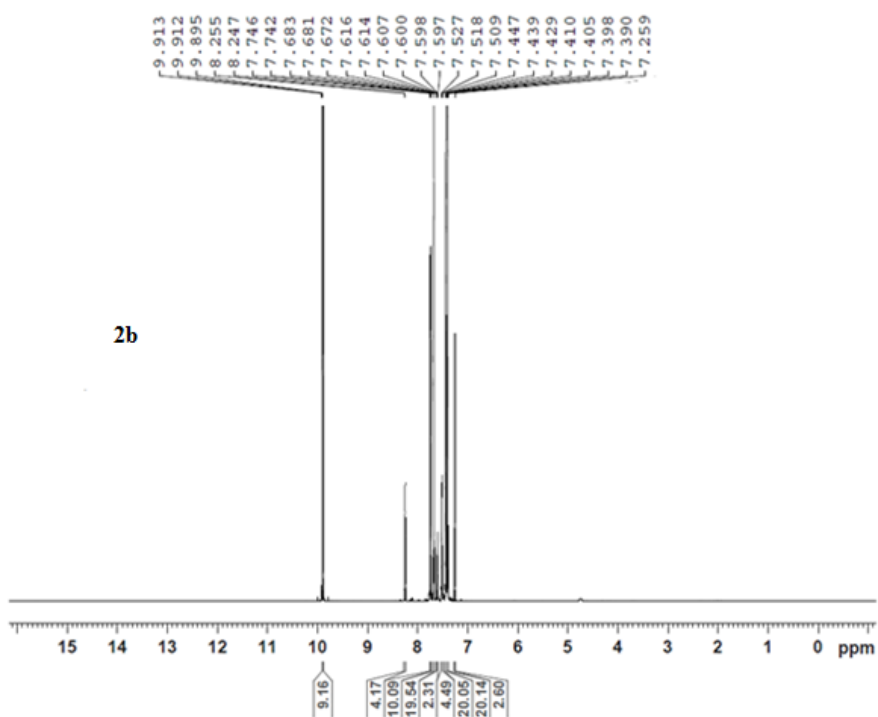
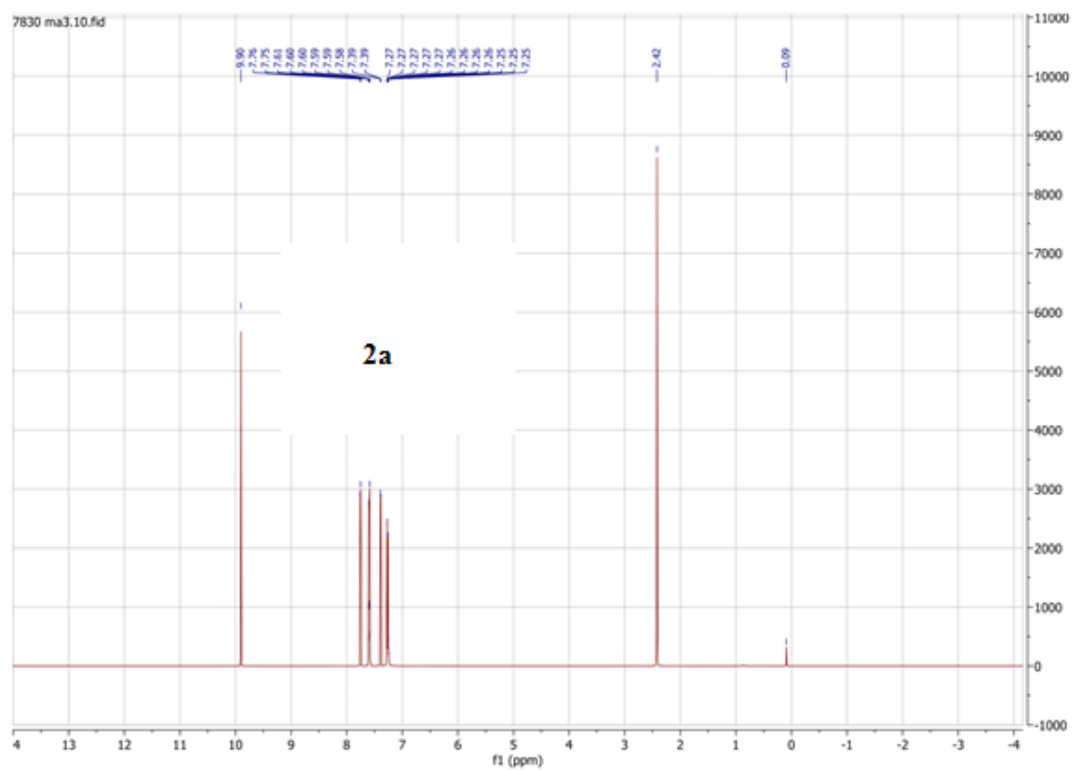
Department of Chemistry, King Faisal University, P. O. Box 380 Al-Hofuf, 31982 Al-Ahsa, Saudi Arabia

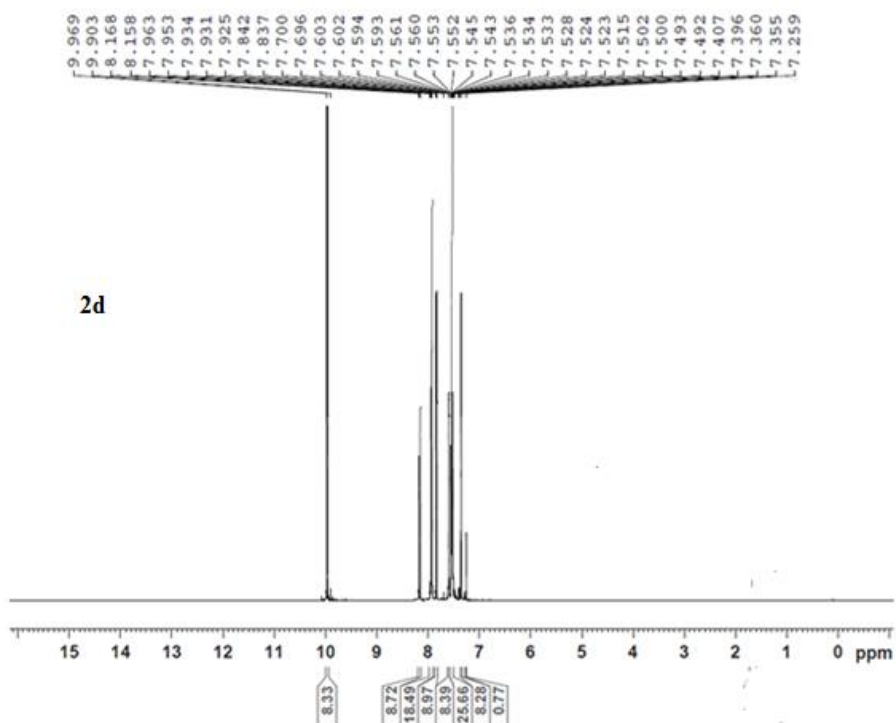
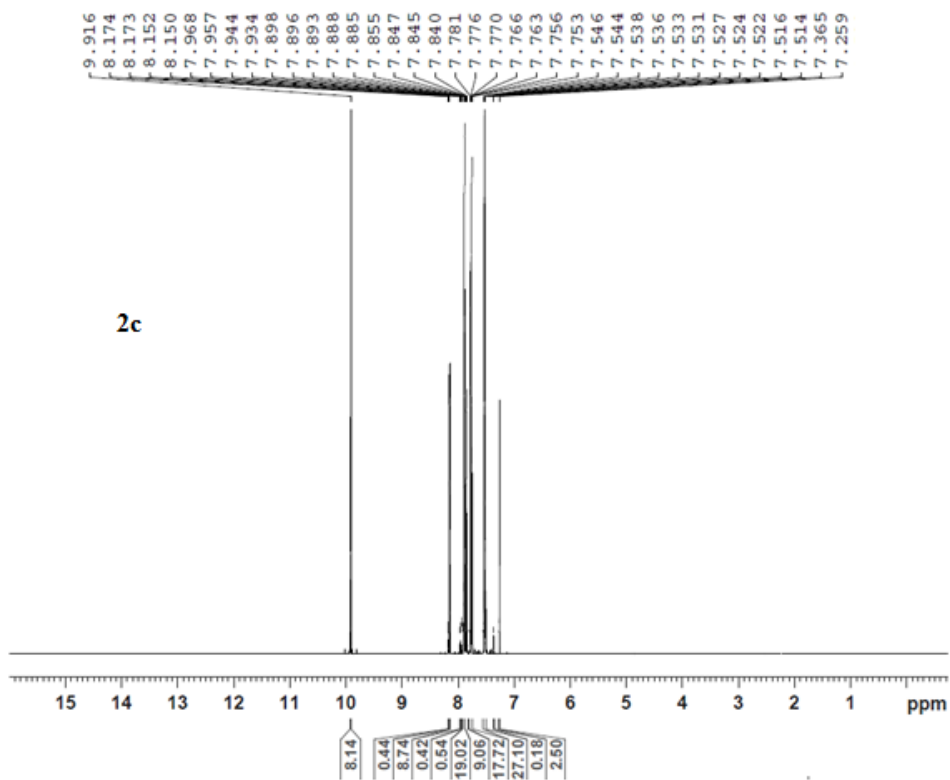
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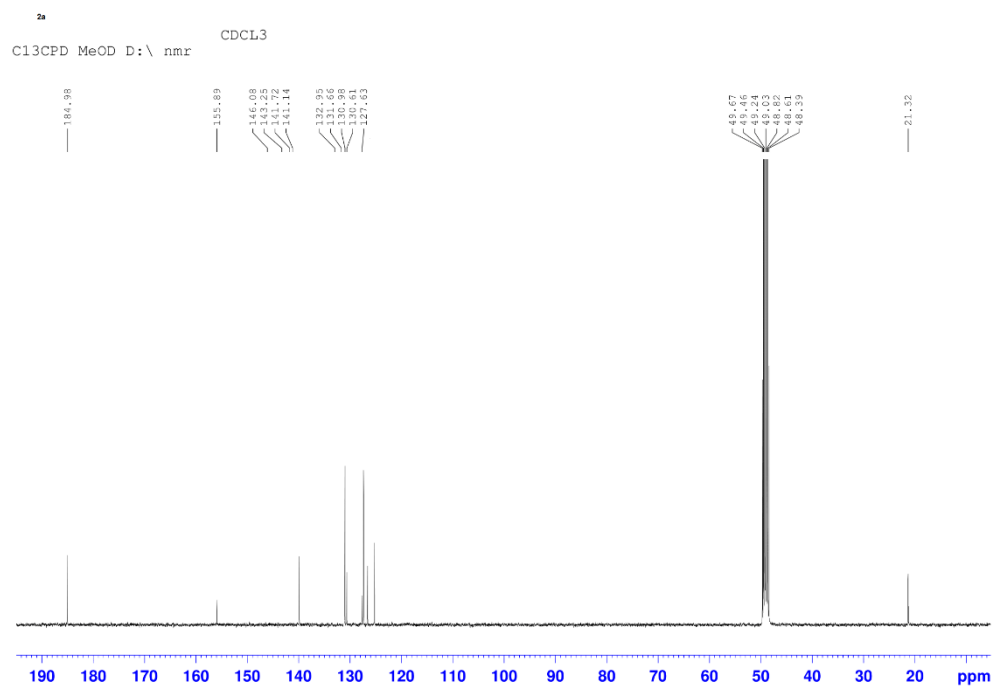
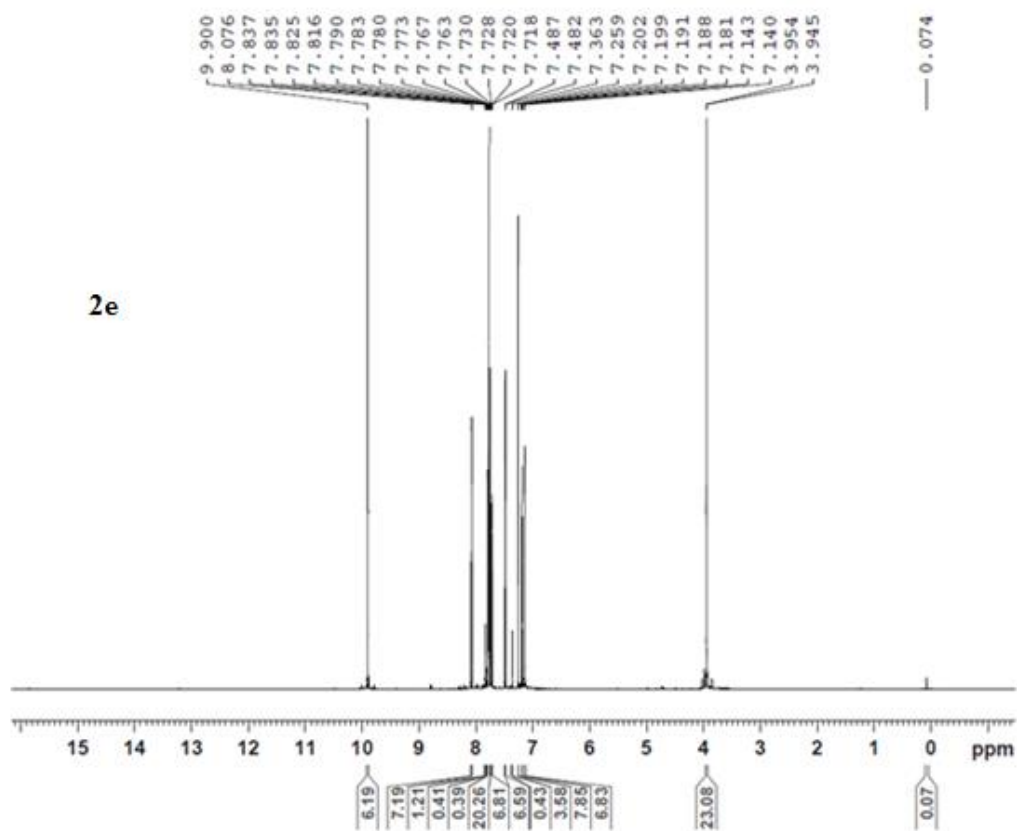
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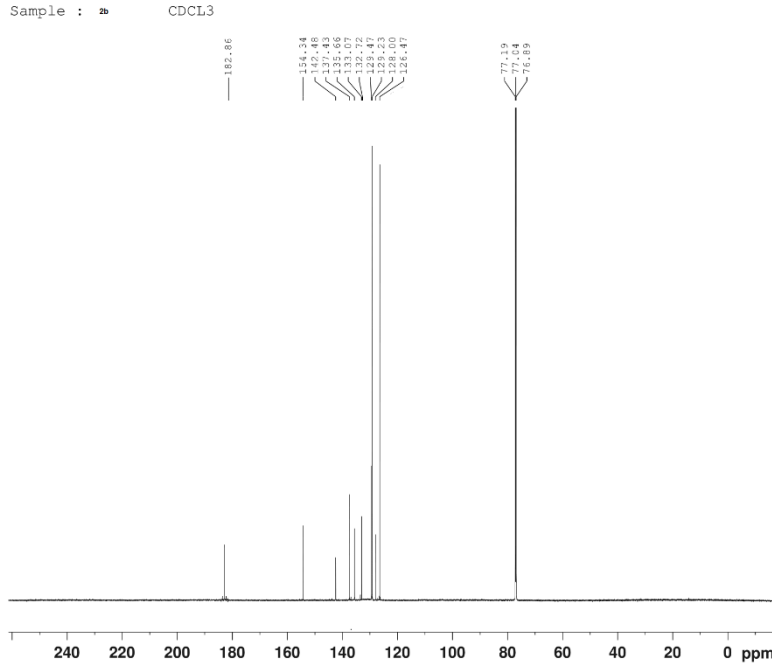
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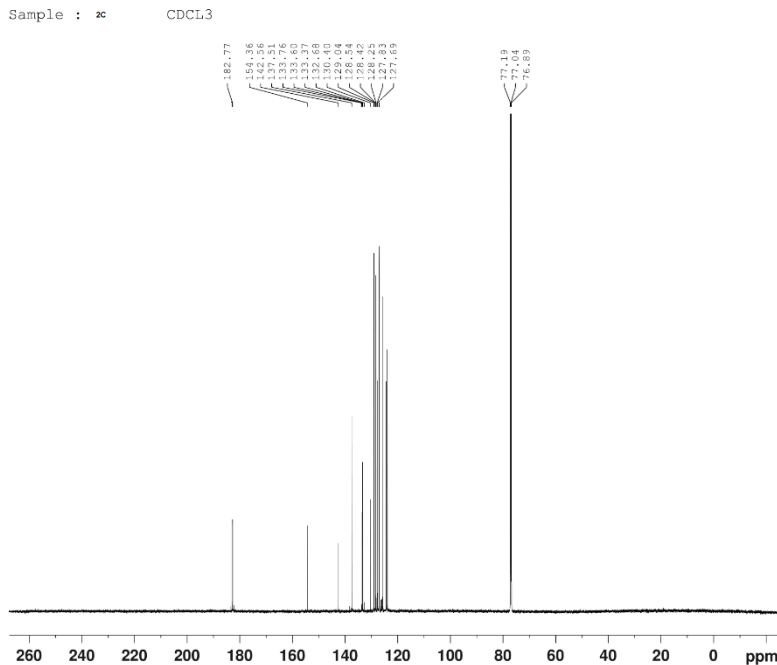
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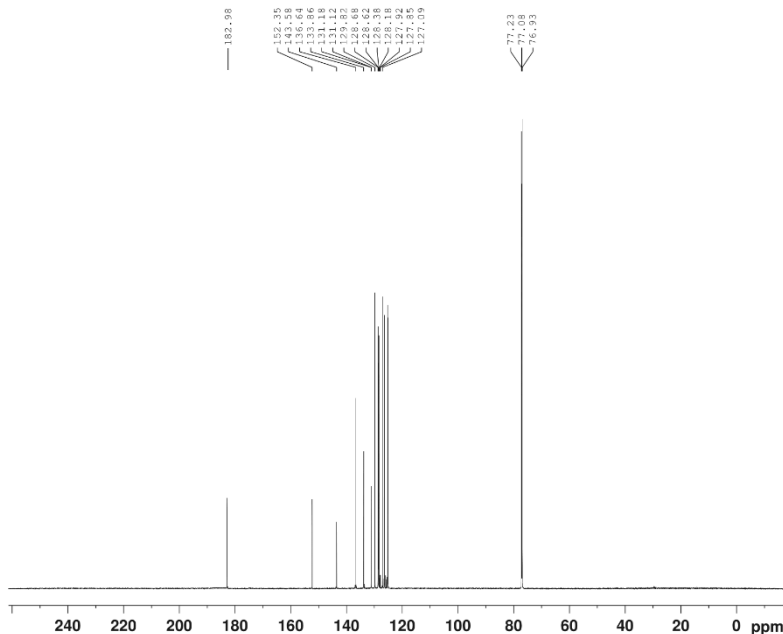
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Sample : 2a CDCL3



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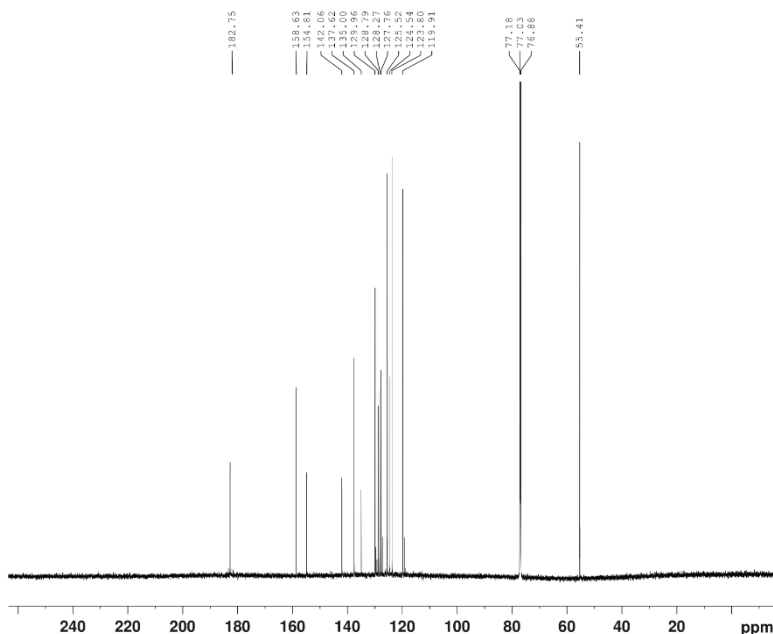
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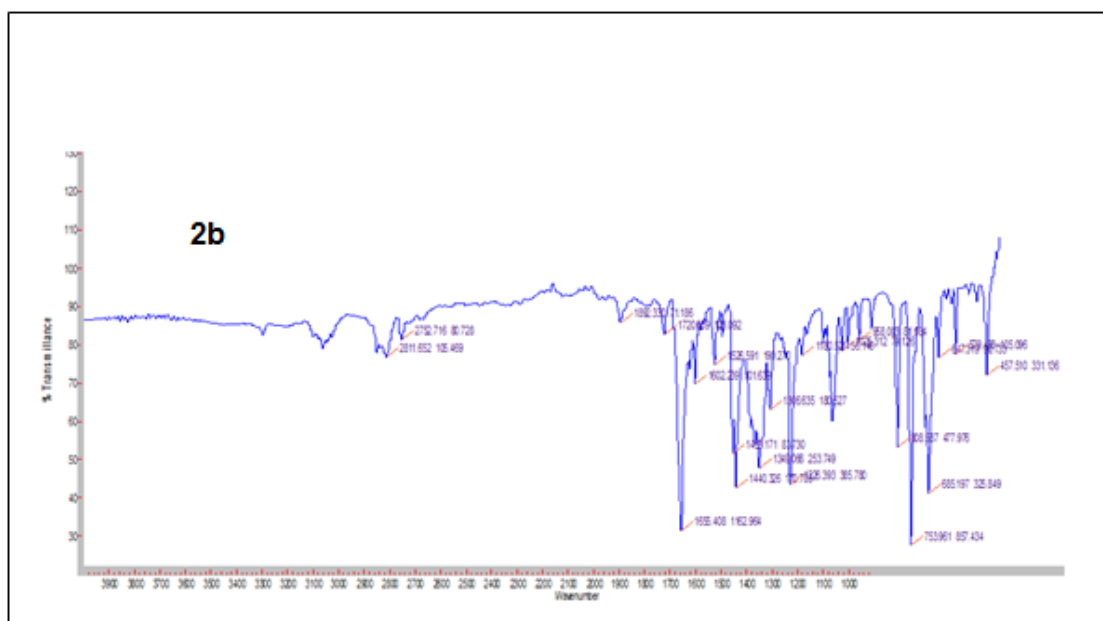
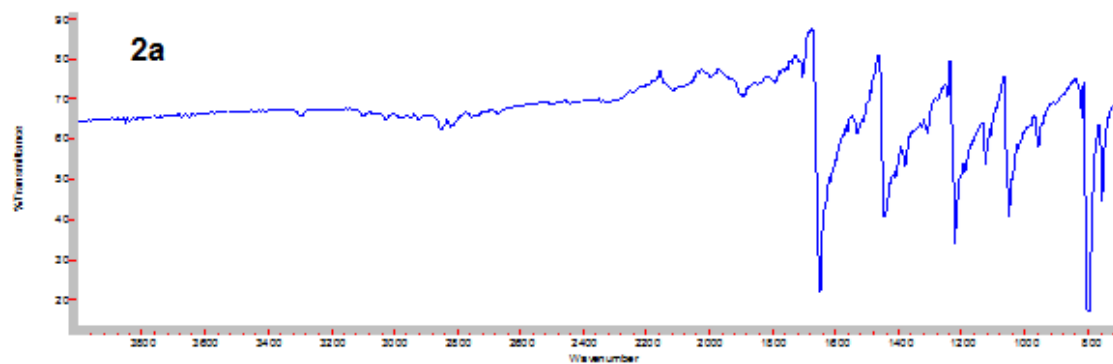
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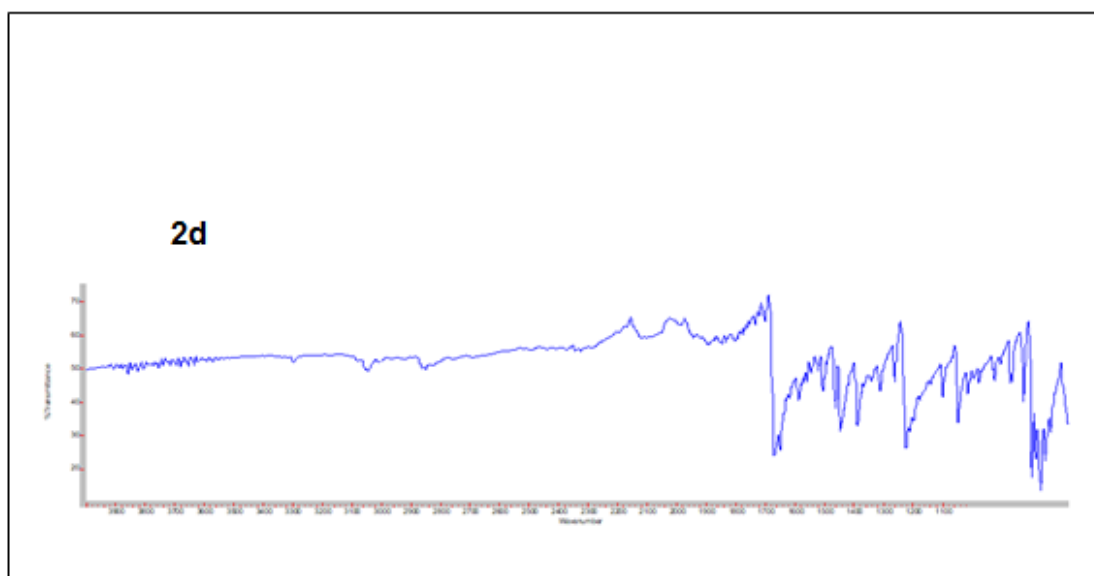
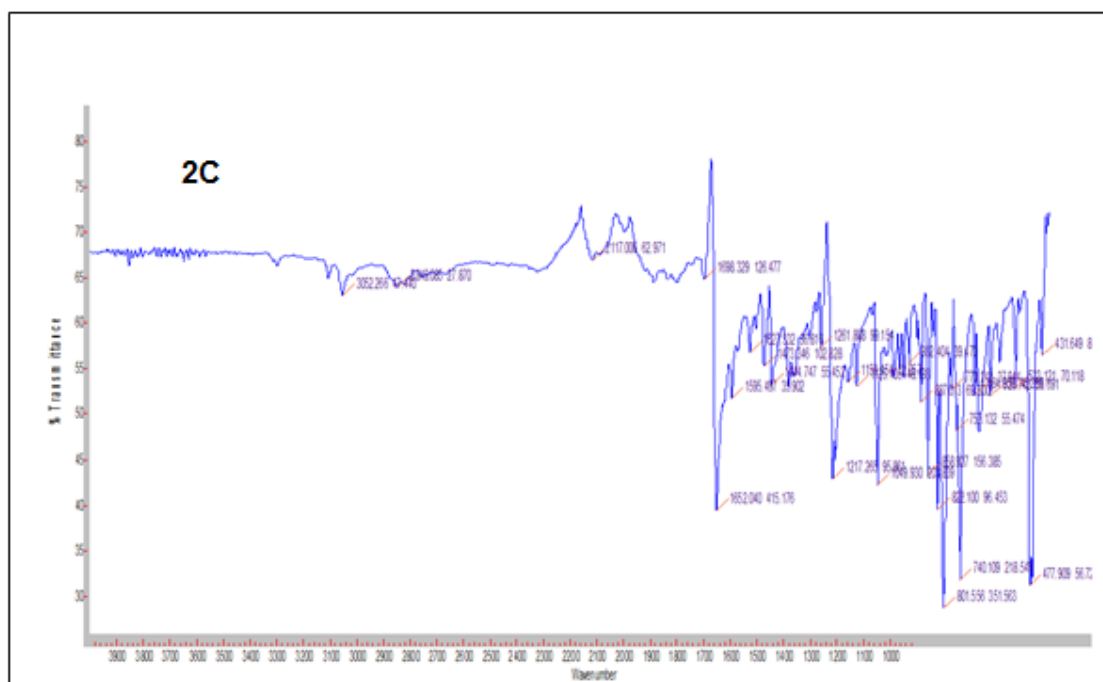
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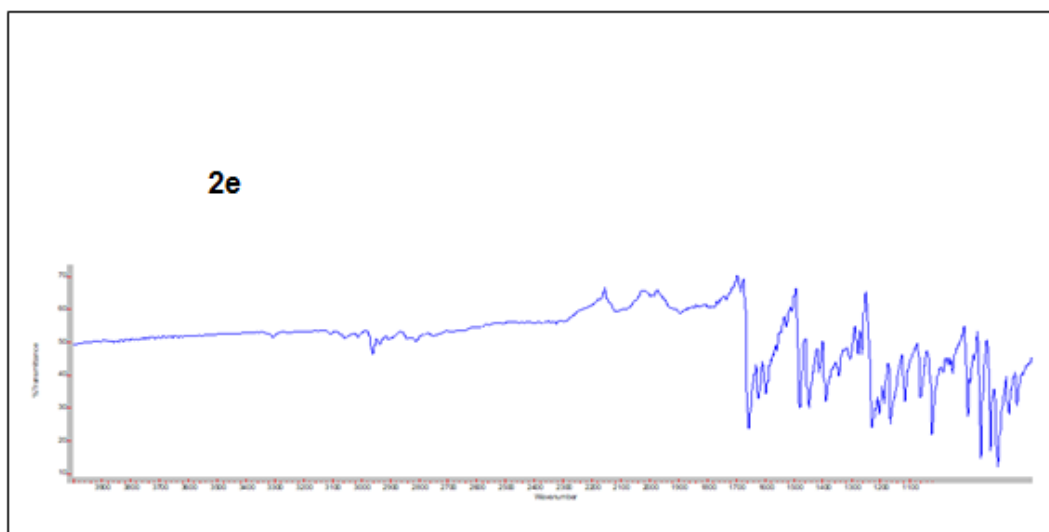
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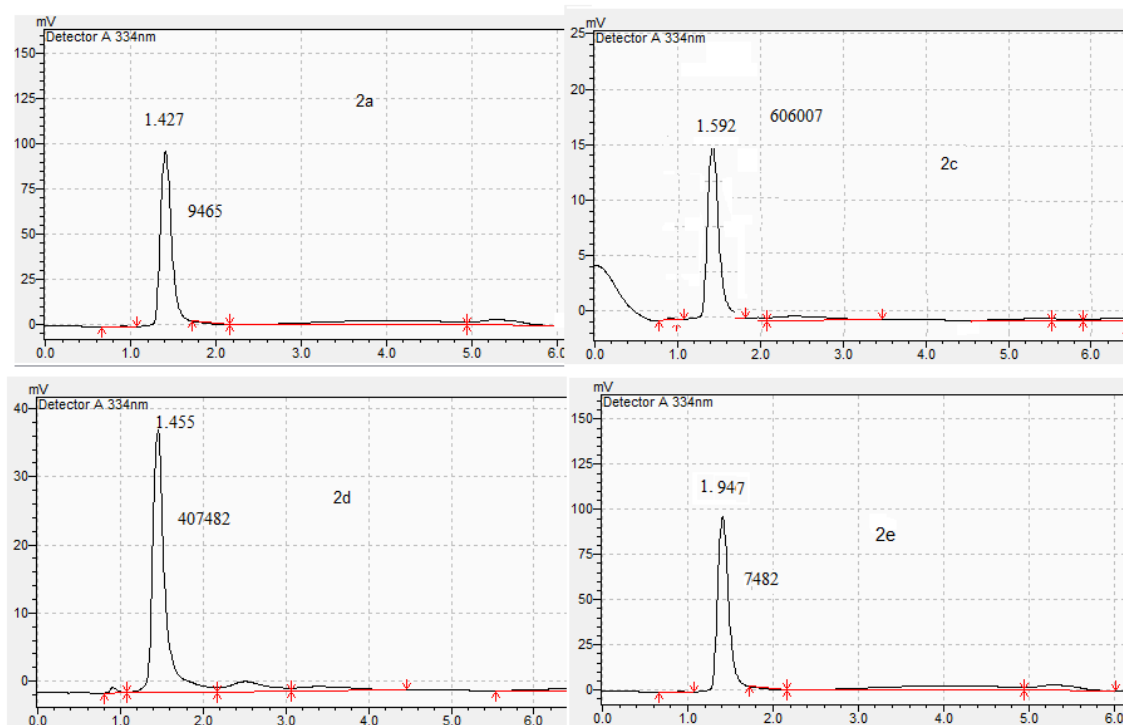
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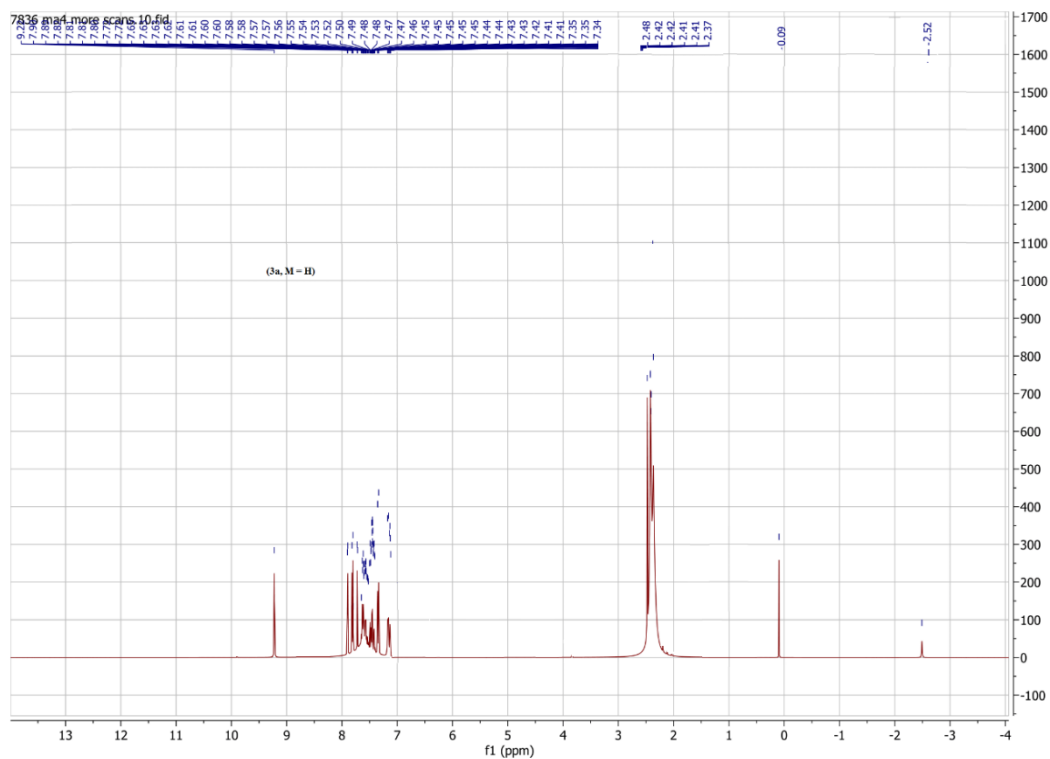
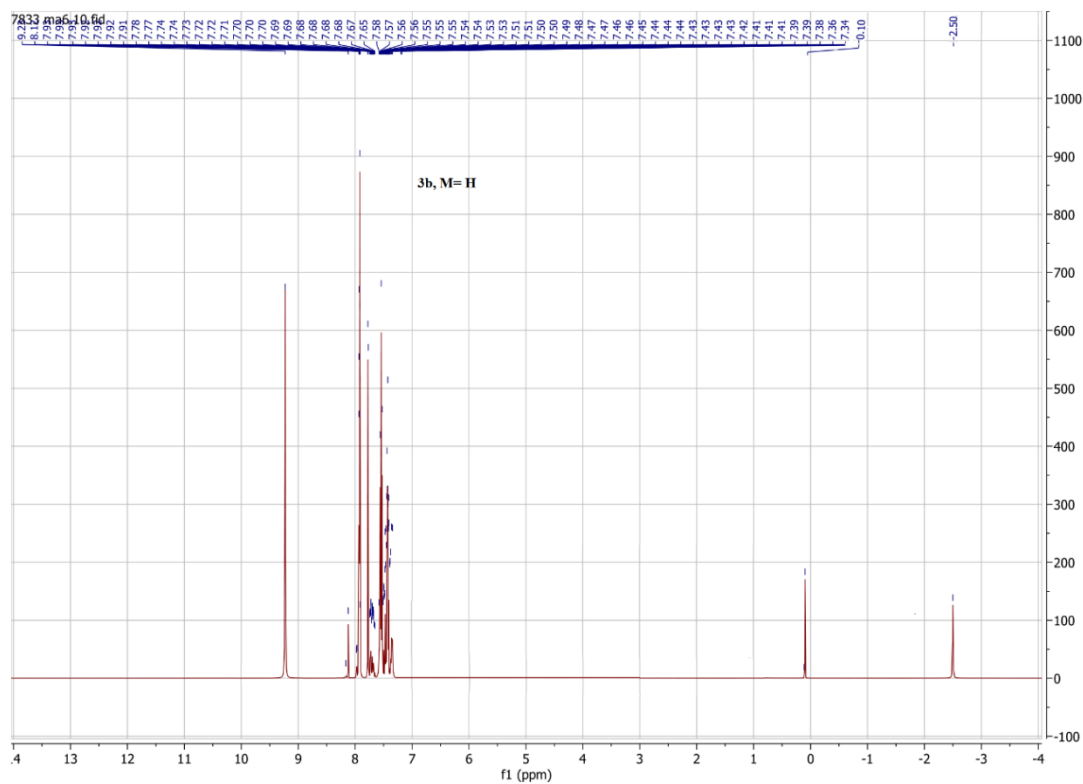


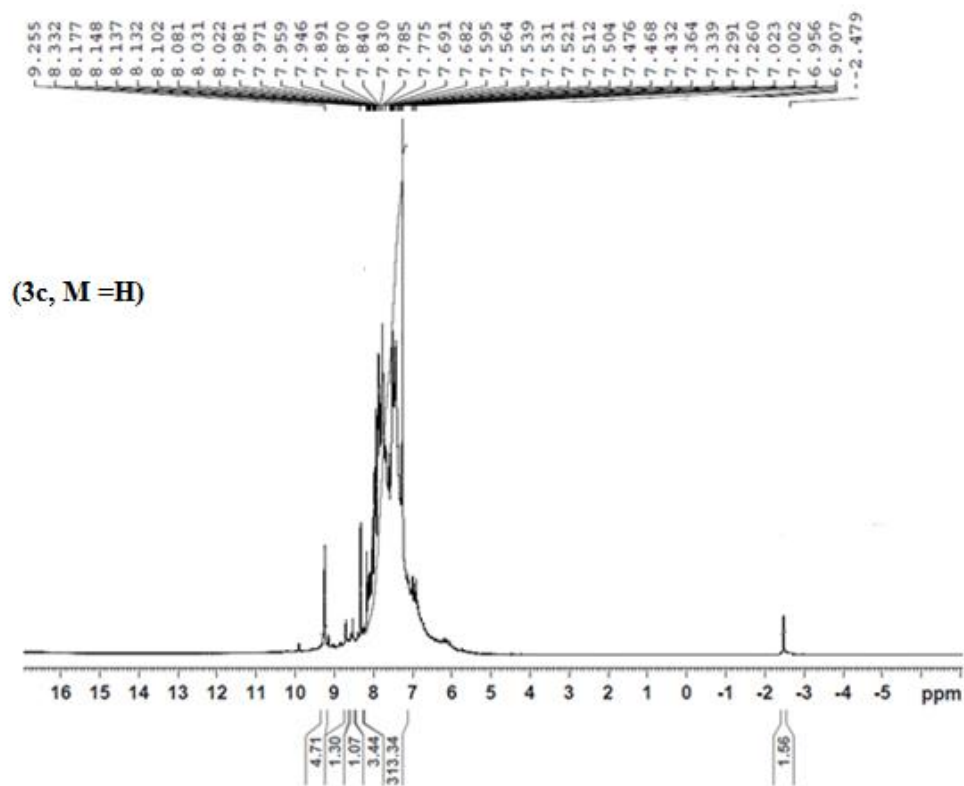
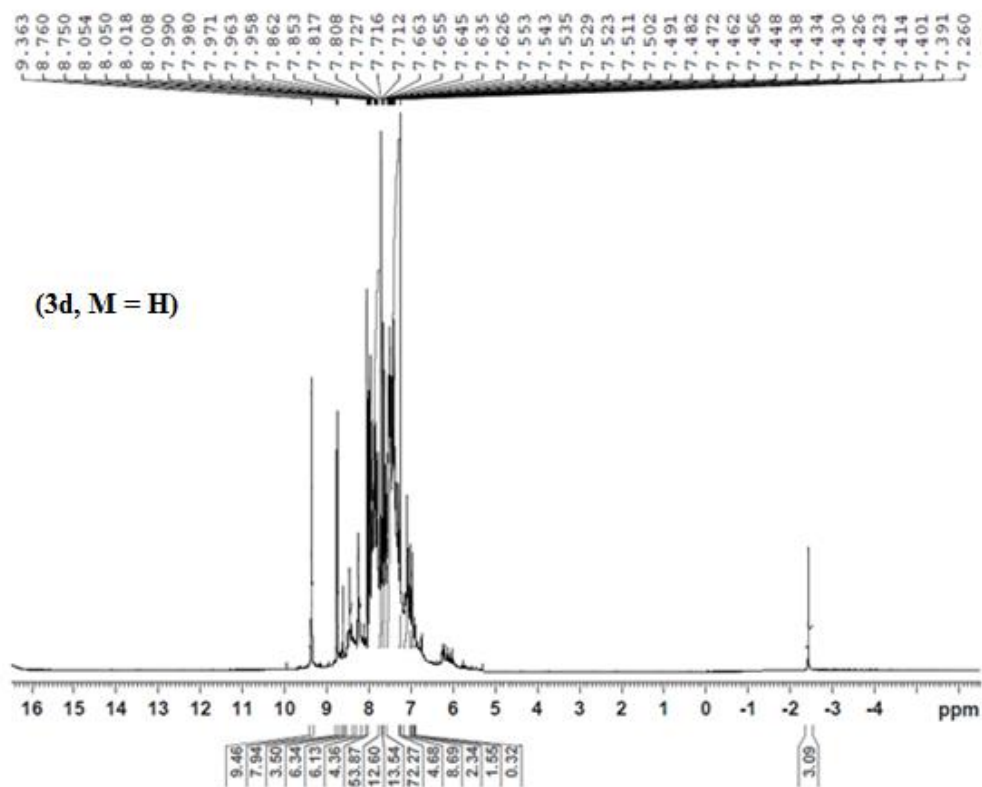


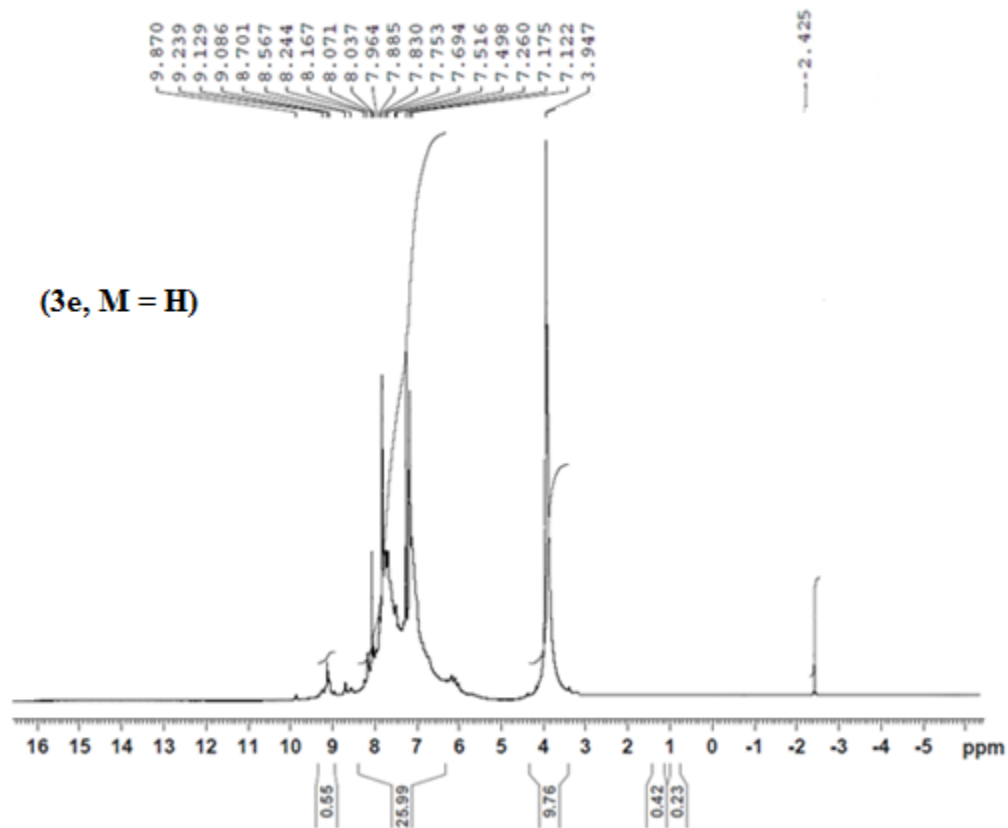
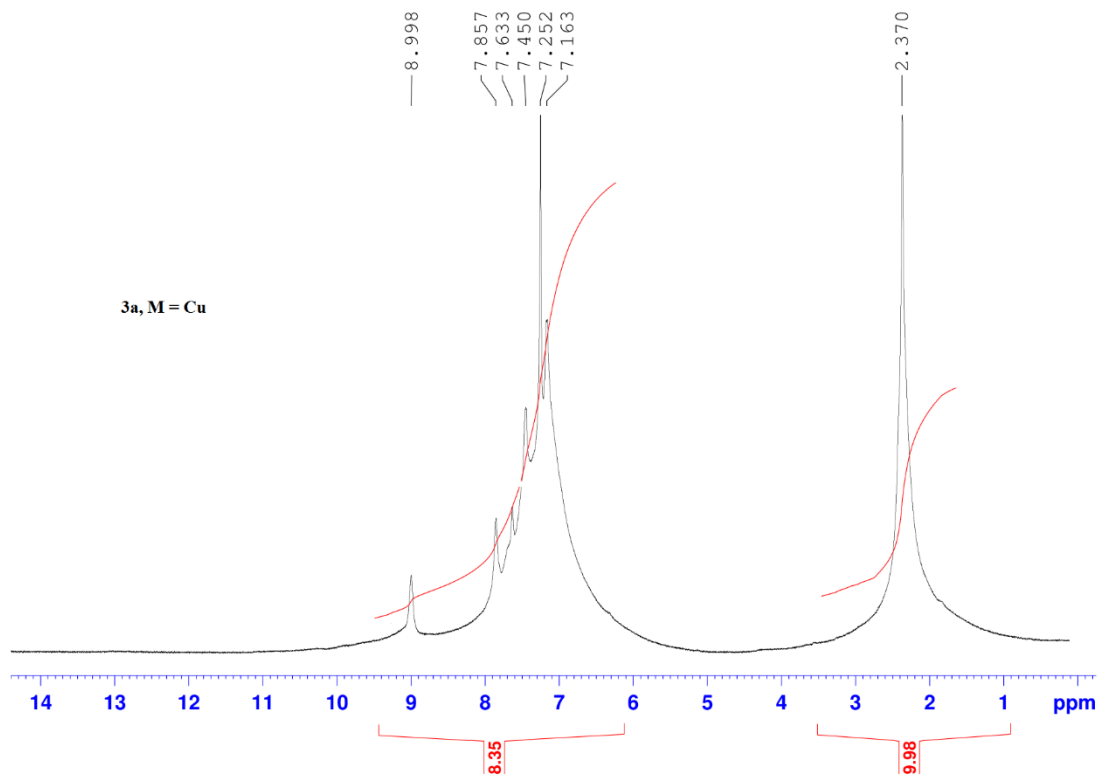


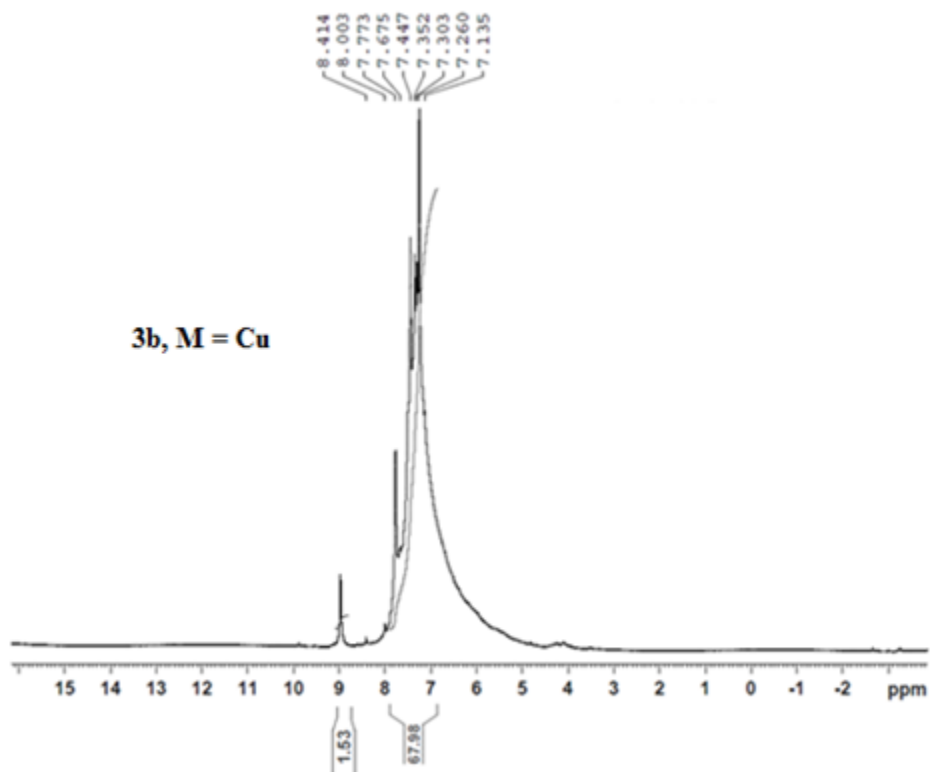
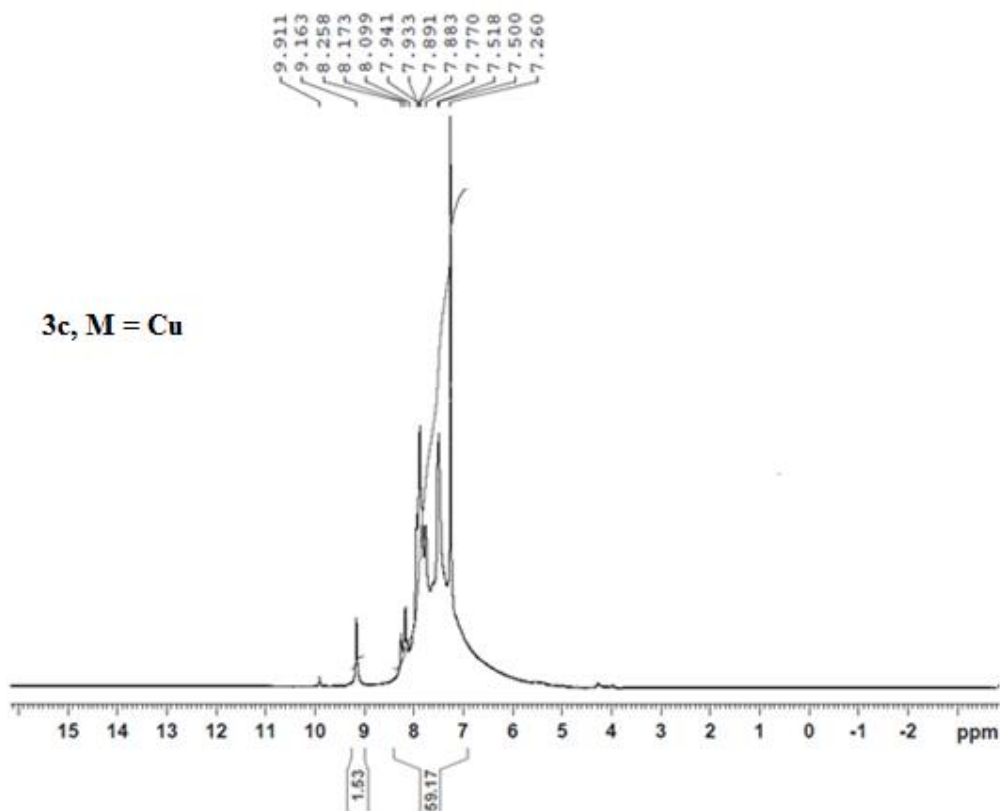
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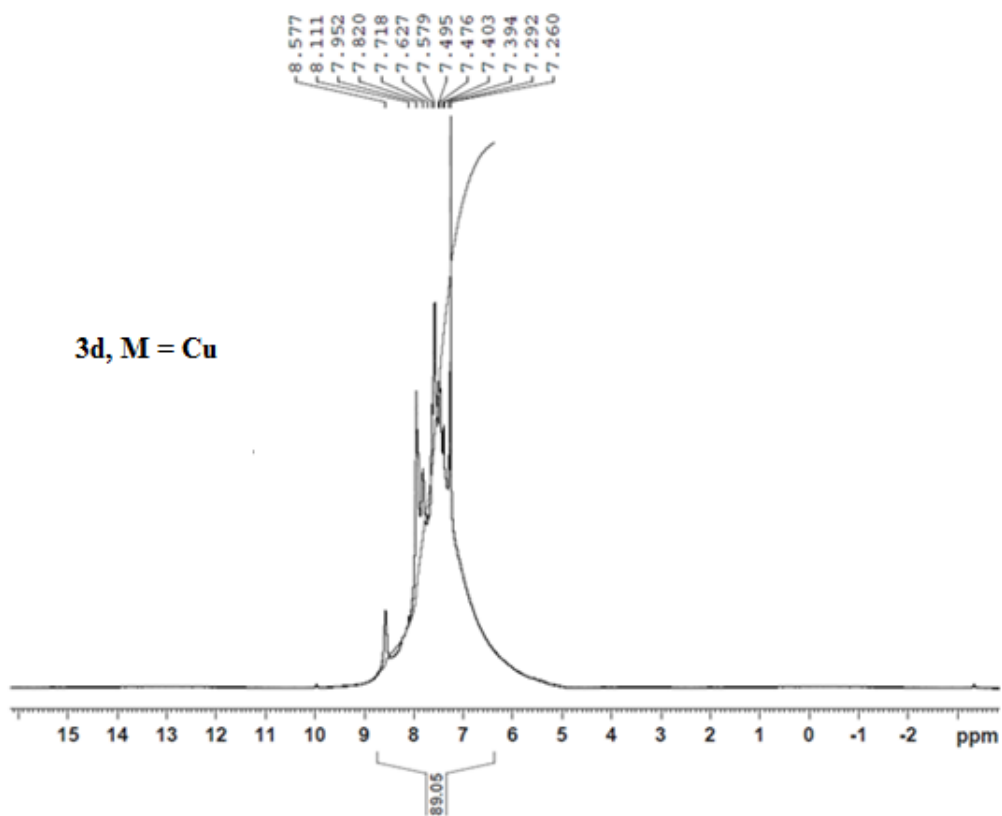
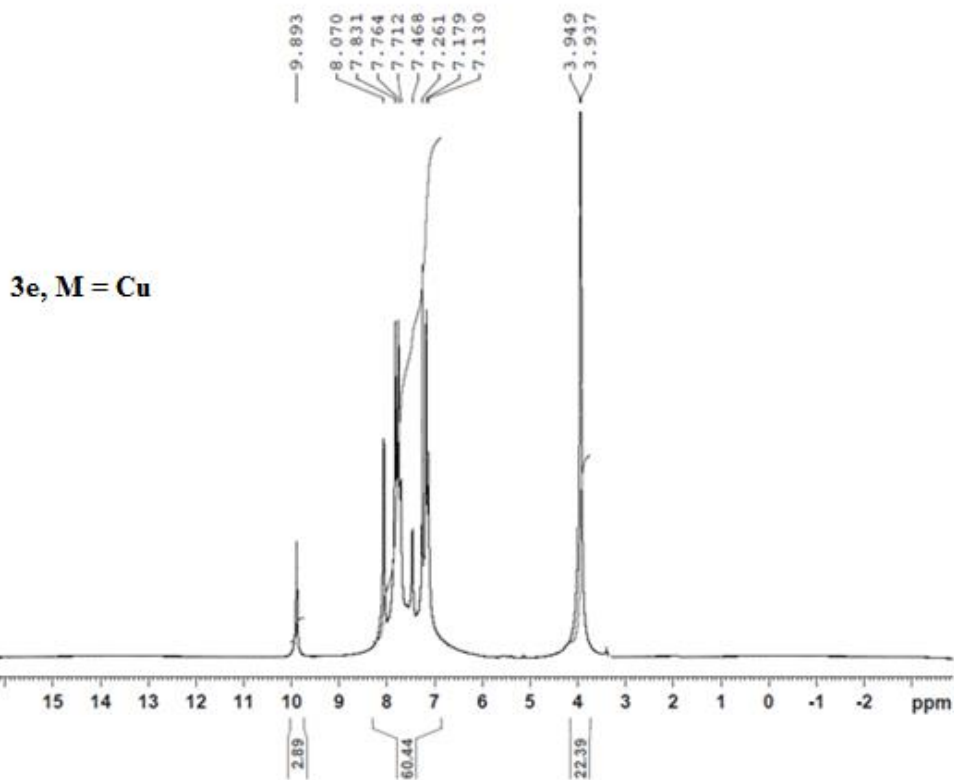


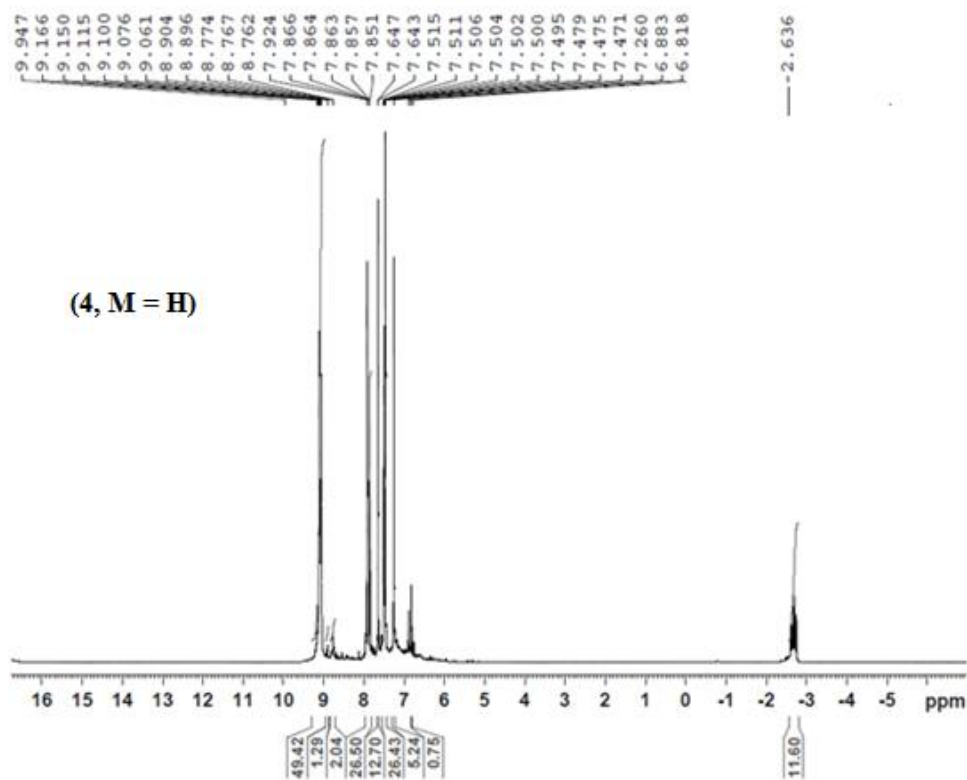
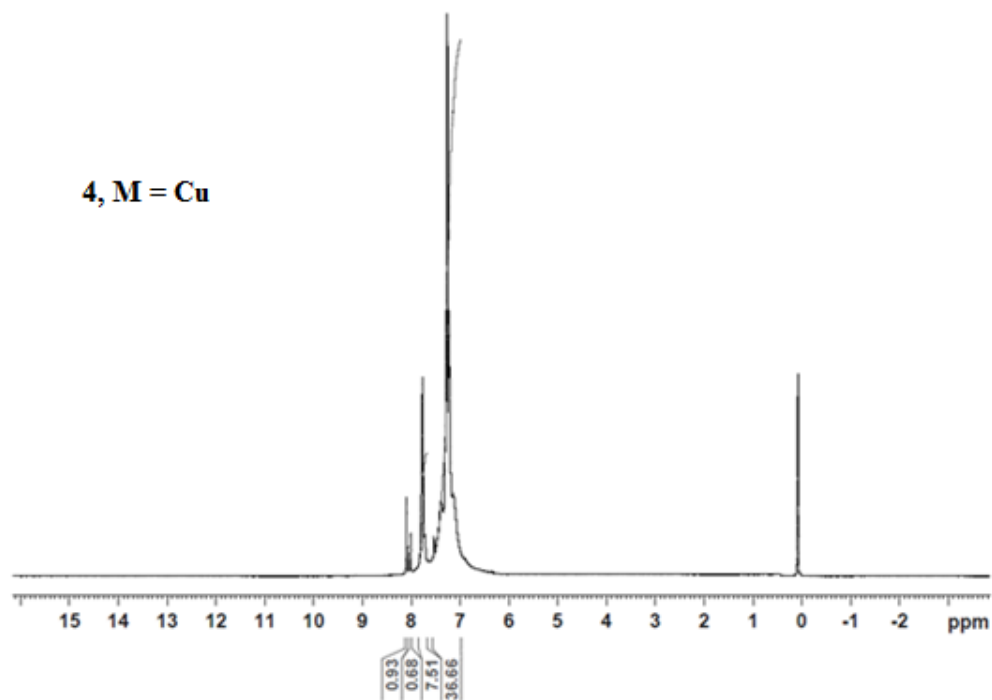
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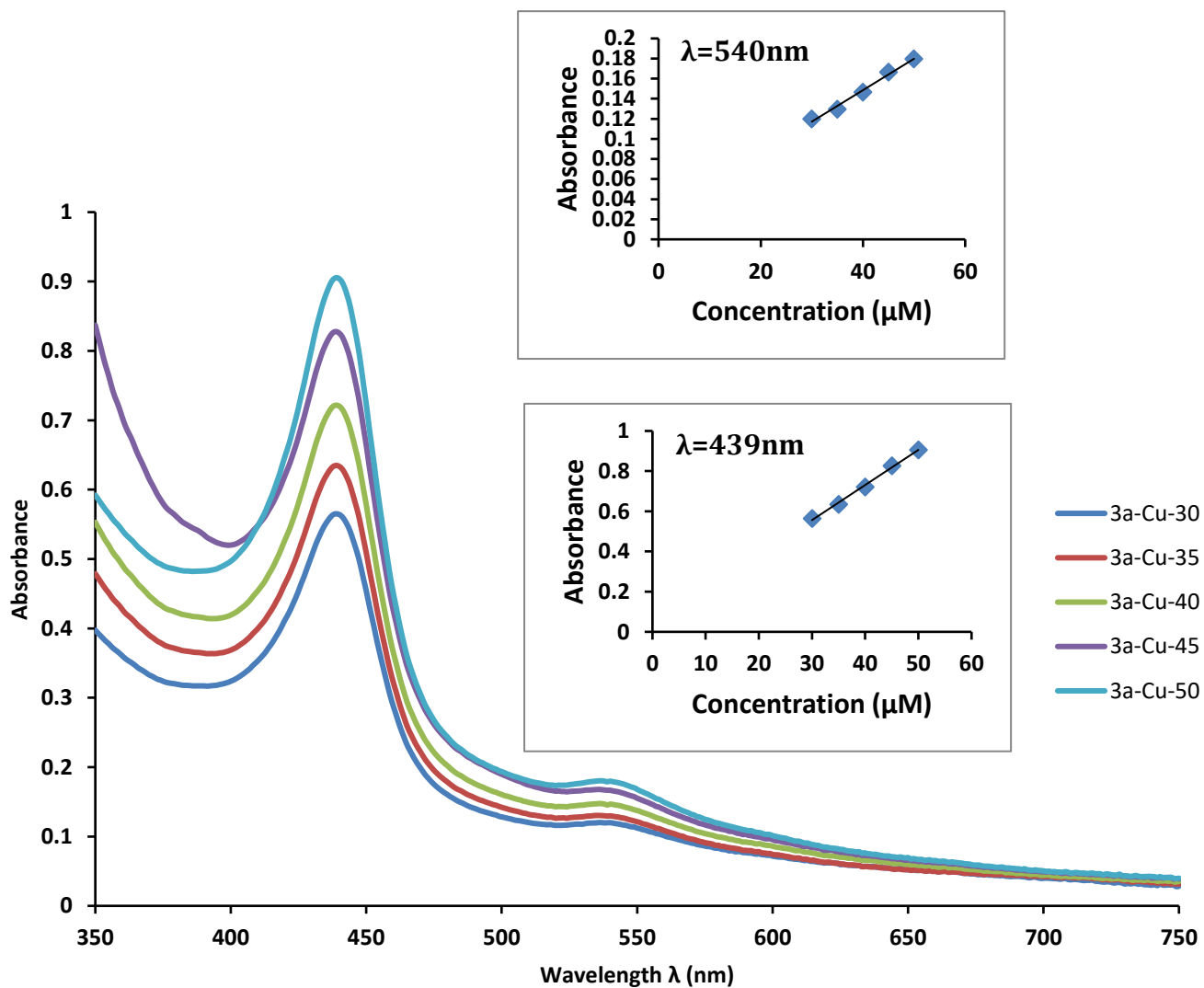
$^1\text{H-NMR}$ Spectra of porphyrin **3c** (M=H) $^1\text{H-NMR}$ Spectra of porphyrin **3d** (M=H)

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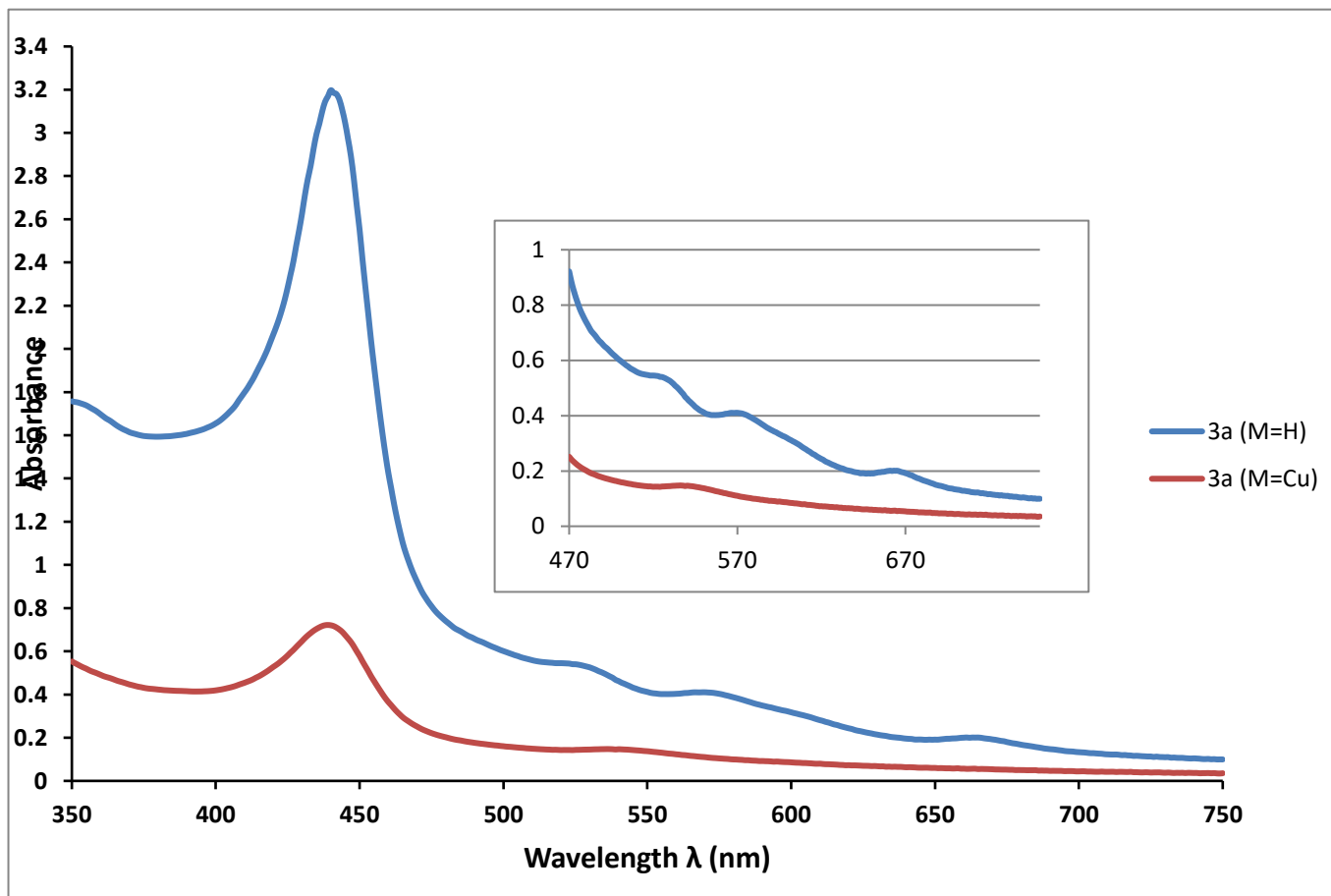
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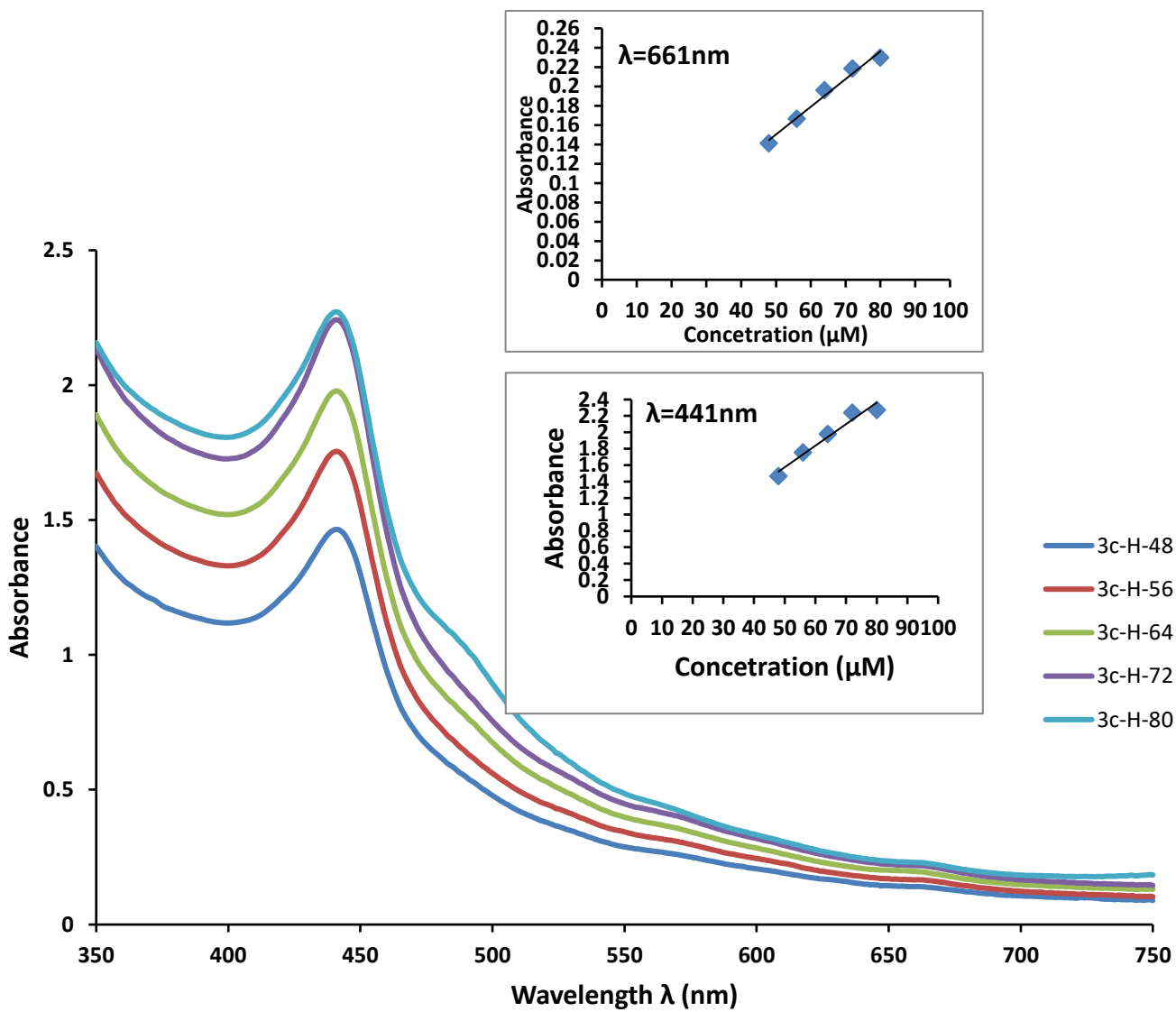
$^1\text{H-NMR}$ Spectra of porphyrin **3d** (M=Cu) $^1\text{H-NMR}$ Spectra of porphyrin **3e** (M=Cu)

^1H -NMR Spectra of porphyrin **4** (M=H) ^1H -NMR Spectra of porphyrin **4** (M=Cu)

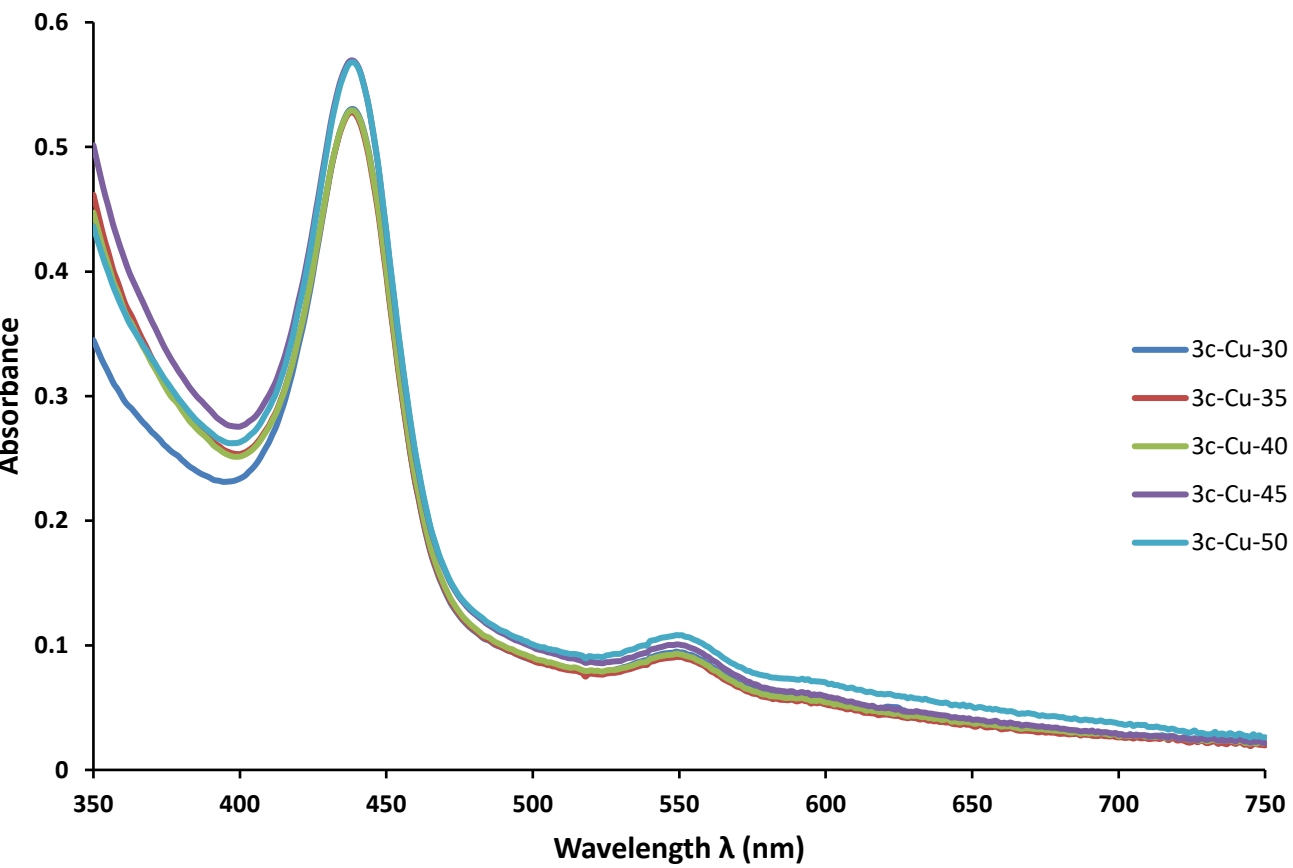
Aggregation study of compound **3a** (M = Cu) in dichloromethane

UV-Vis spectra for **3a** (M=H) and **3a** (M=Cu) in dichloromethane.

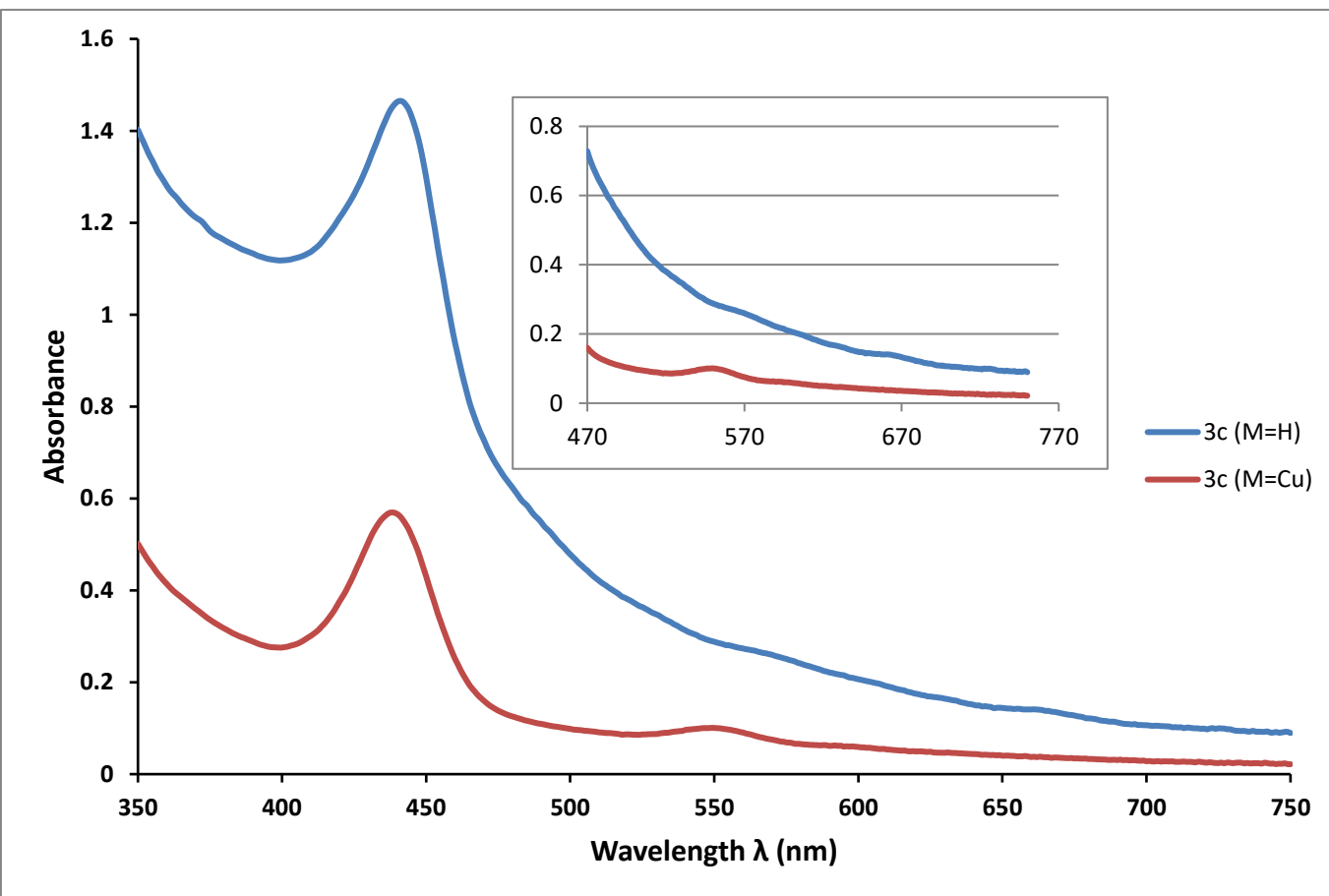


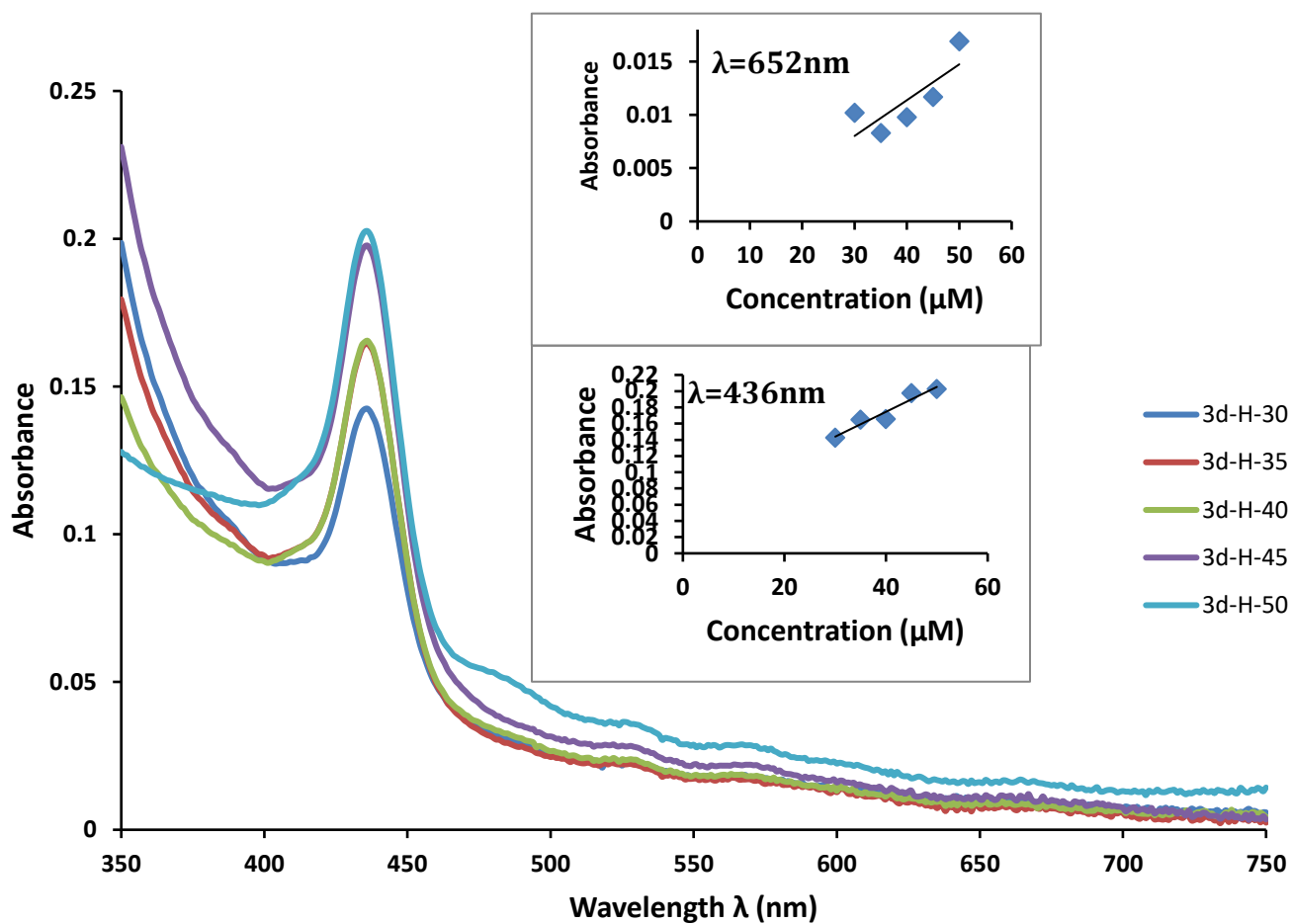
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Aggregation study of compound **3c** (M = Cu) in dichloromethane.

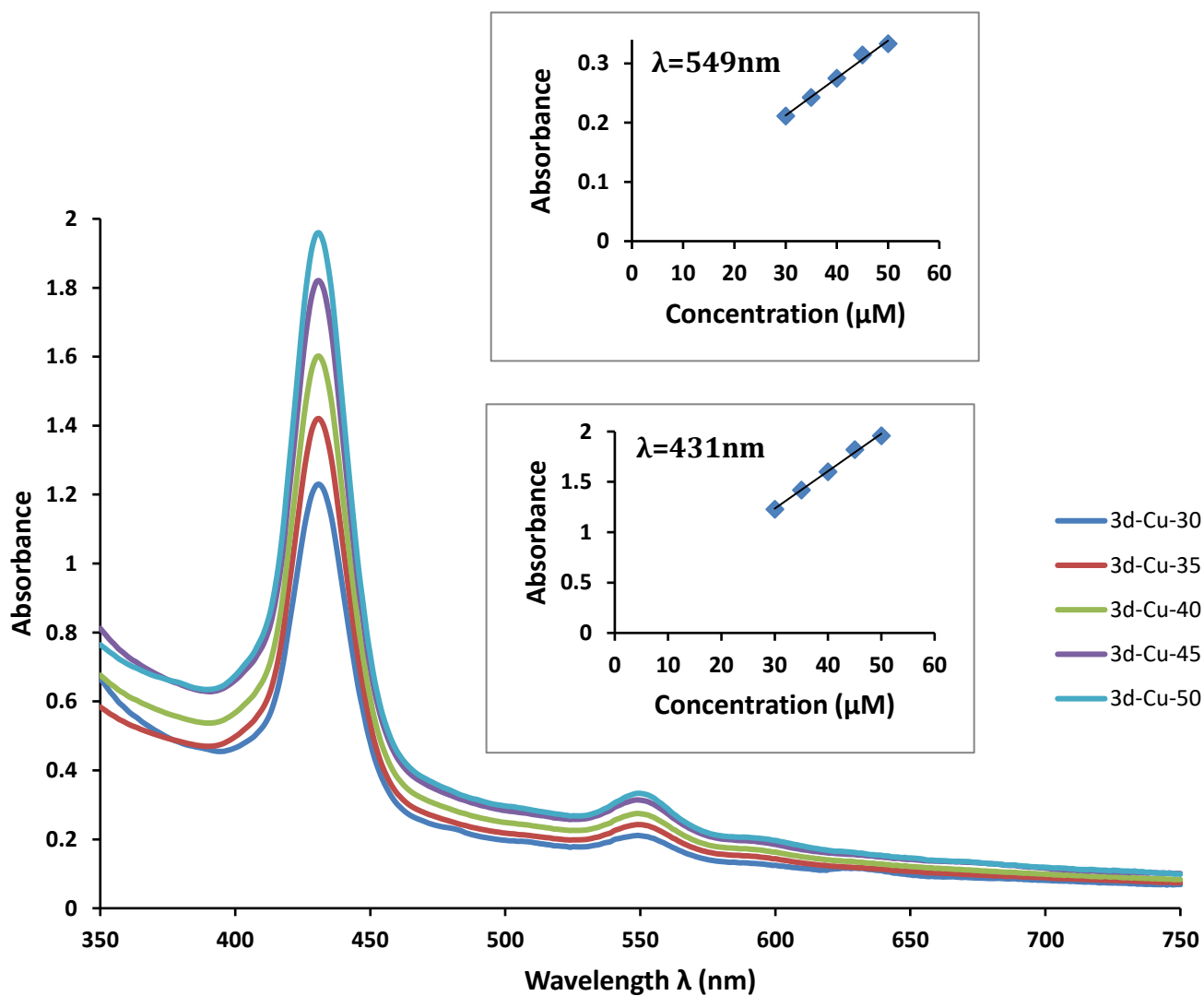


UV-Vis spectra for **3c** (M=H) and **3c** (M=Cu) in dichloromethane.

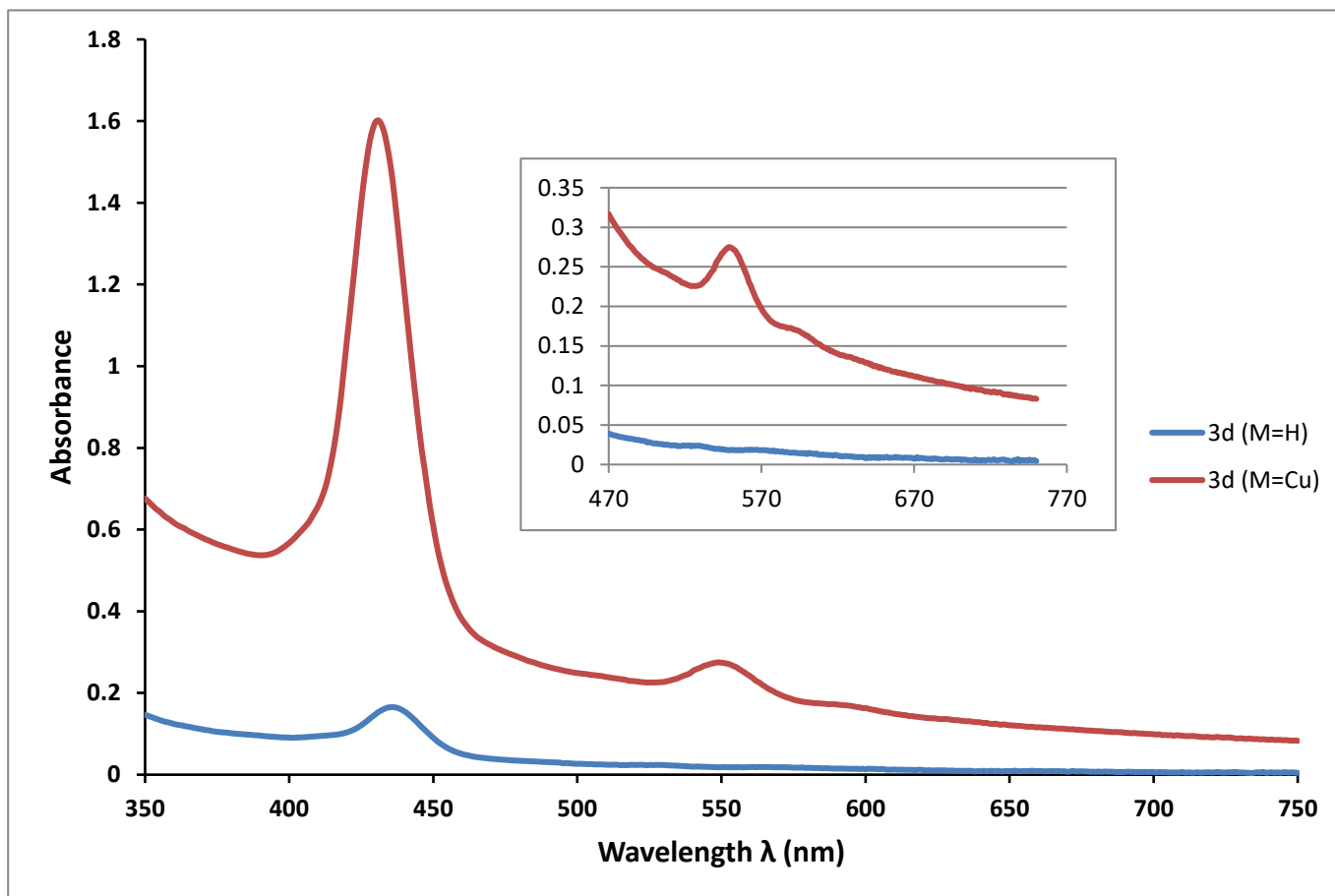


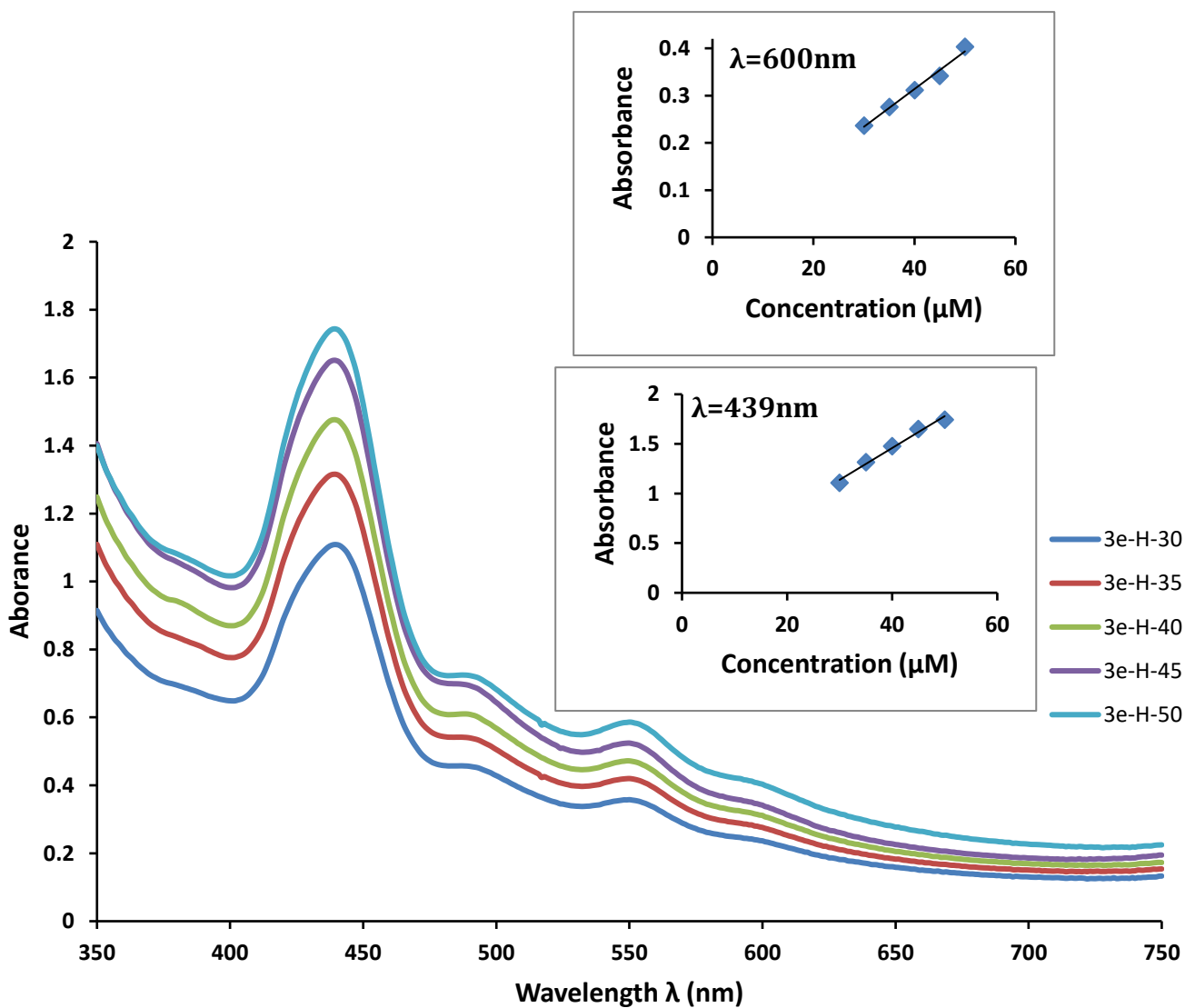
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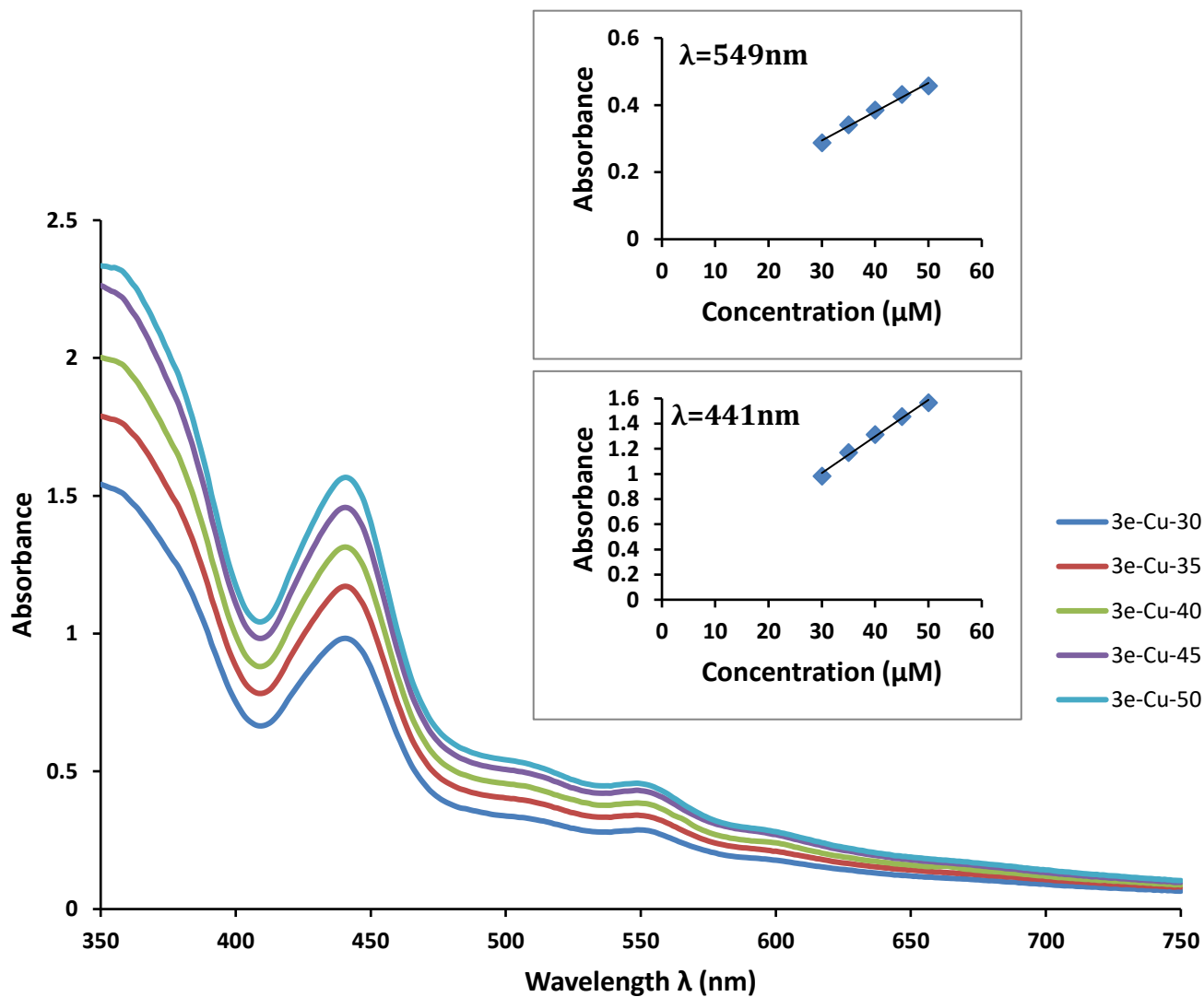
Aggregation study of compound **3d** (M = Cu) in dichloromethane.



UV-Vis spectra for **3d** (M=H) and **3d** (M=Cu) in dichloromethane.



Aggregation study of compound **3e** (M = H) in dichloromethane.

Aggregation study of compound **3e** (M = Cu) in dichloromethane.

UV-Vis spectra for **3e** (M=H) and **3e** (M=Cu) in dichloromethane.