

**New Porphyrin Dendrimers with Fluorenyl-based Connectors:
A Simple Way to improving the Optical Properties over Dendrimers
featuring 1,3,5-Phenylene Connectors**

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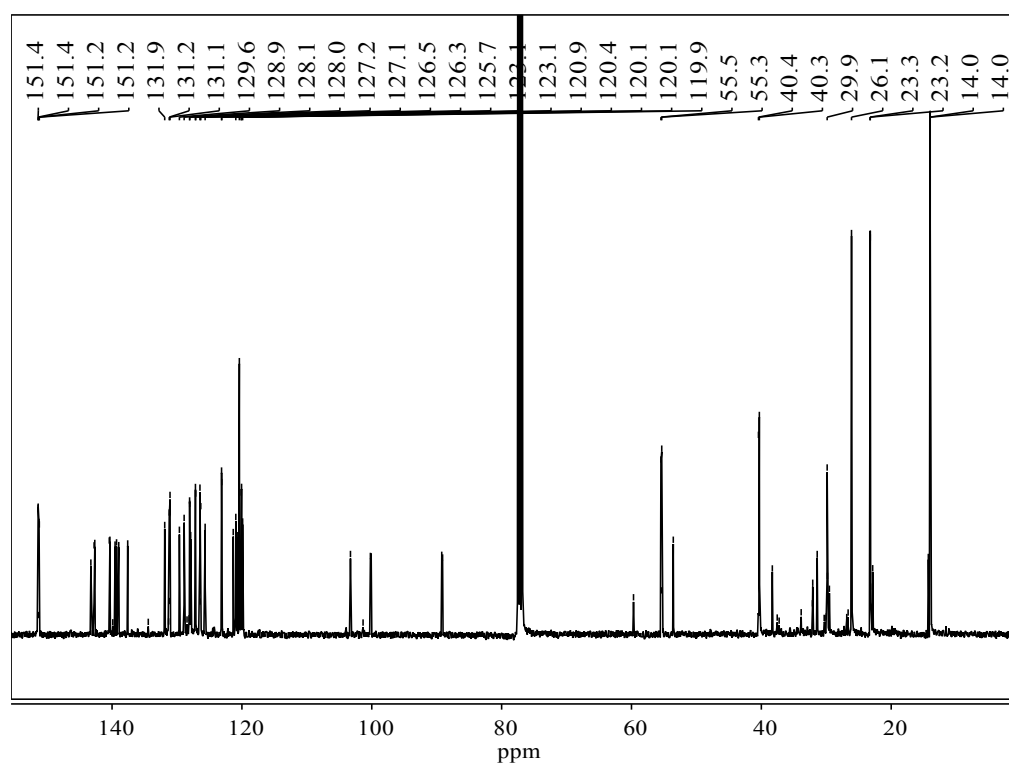
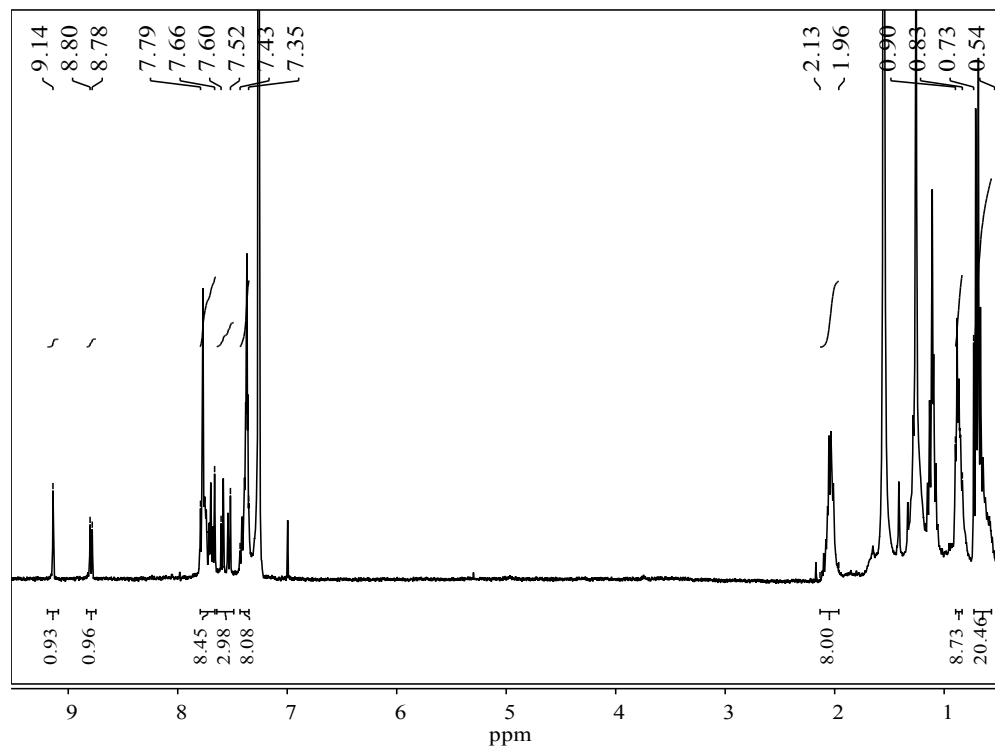
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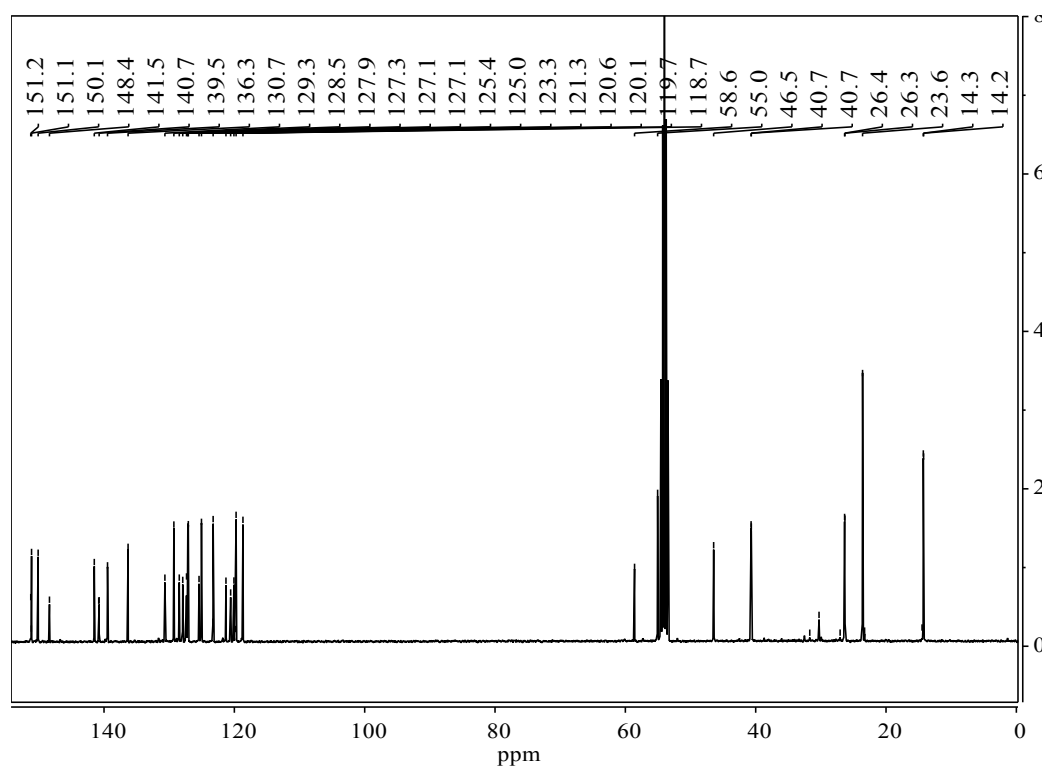
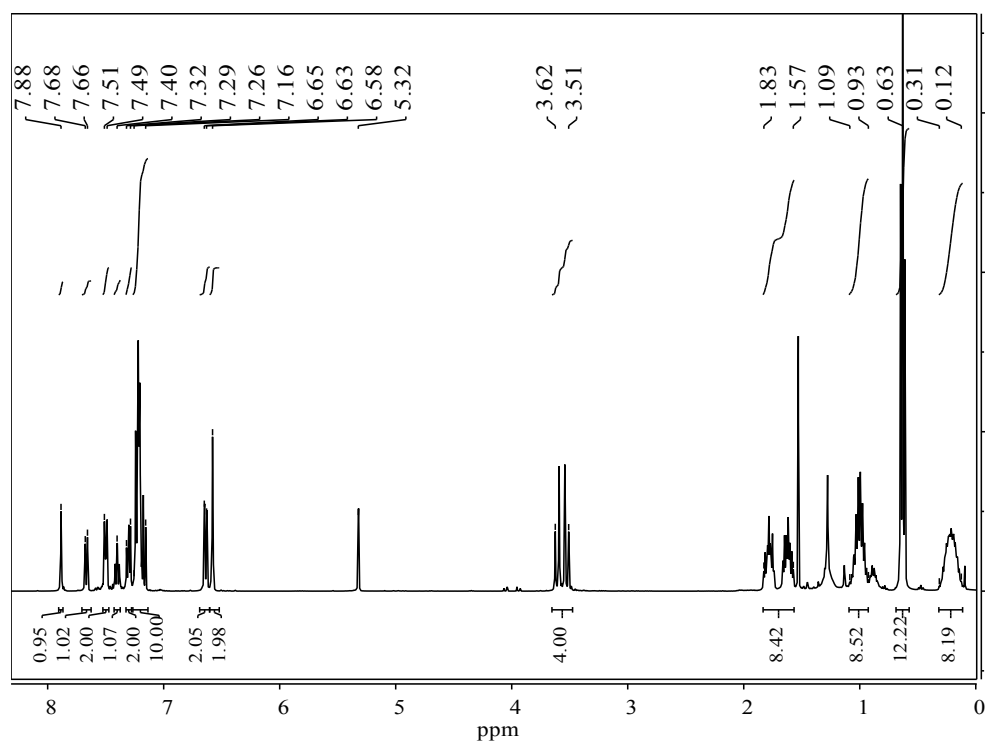
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1. ^1H NMR and $^{13}\text{C}\{^1\text{H}\}$ NMR Spectra of the dendrons precursors 6, 7 and of the porphyrin-based dendrimers 1,2

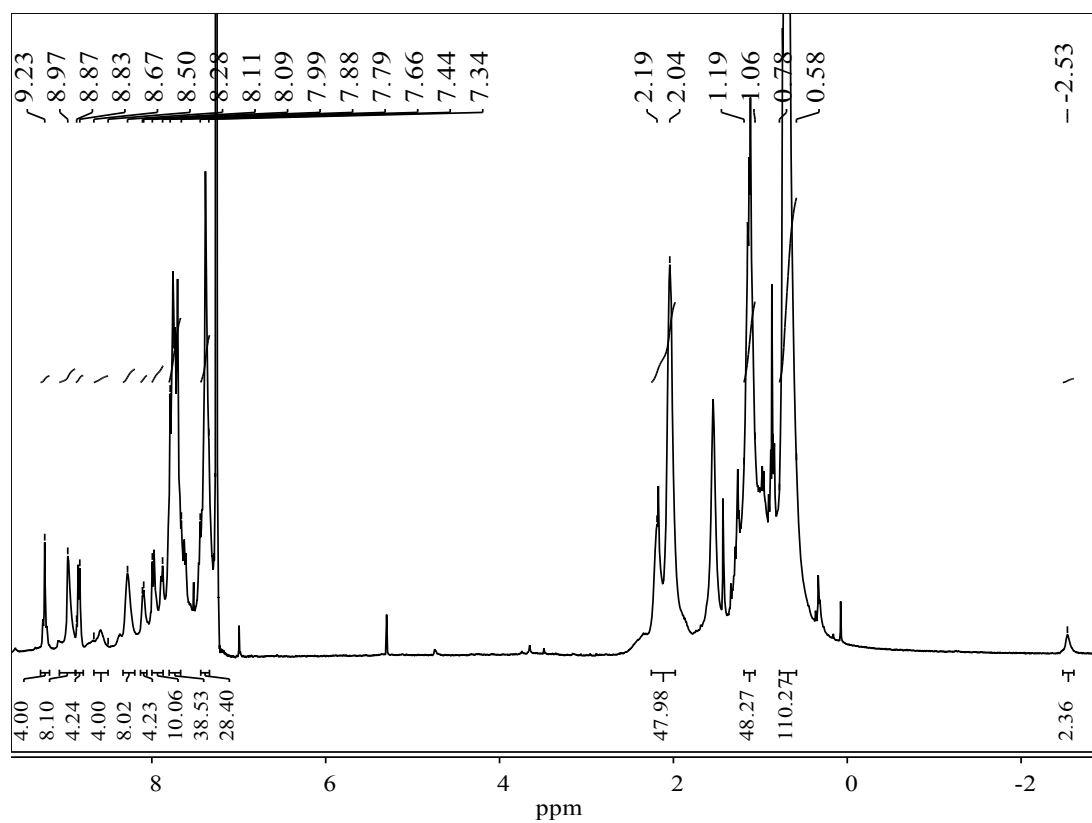
Dendron Precursor 6:



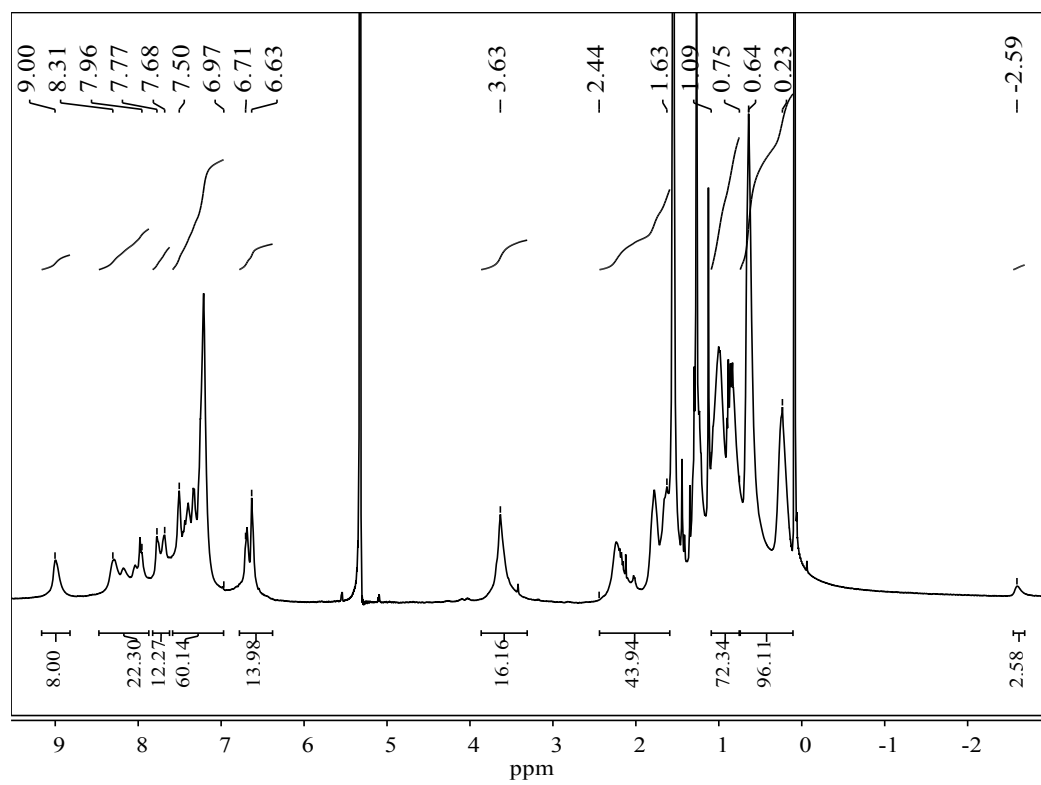
Dendron Precursor 7:



Porphyrin-based Dendrimer 1:

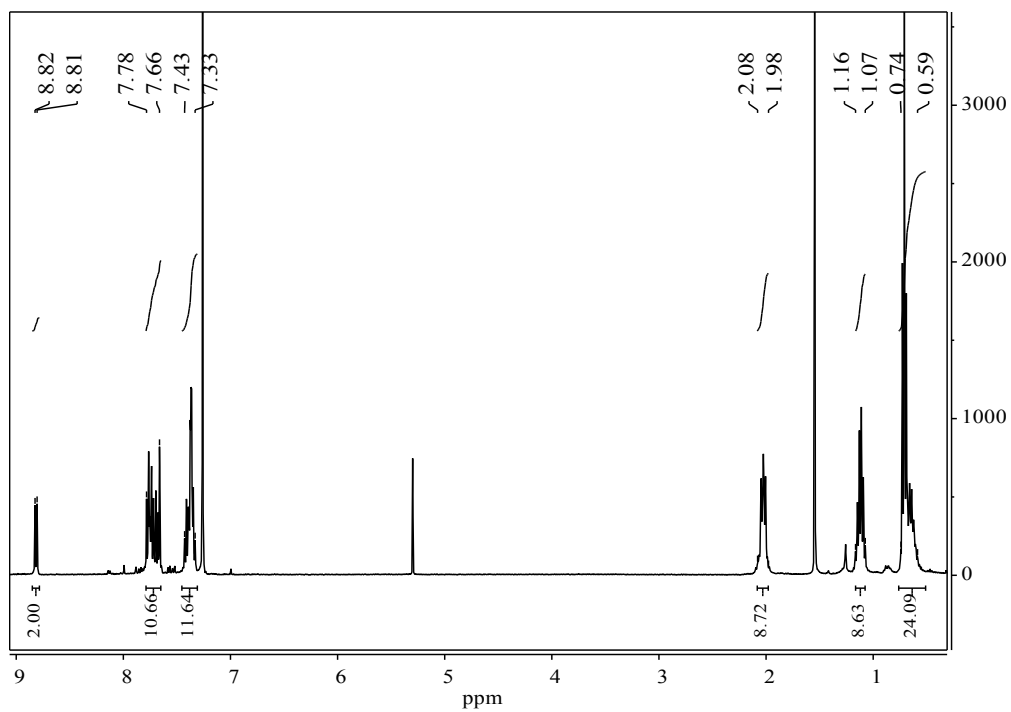


Porphyrin-based Dendrimer 2:

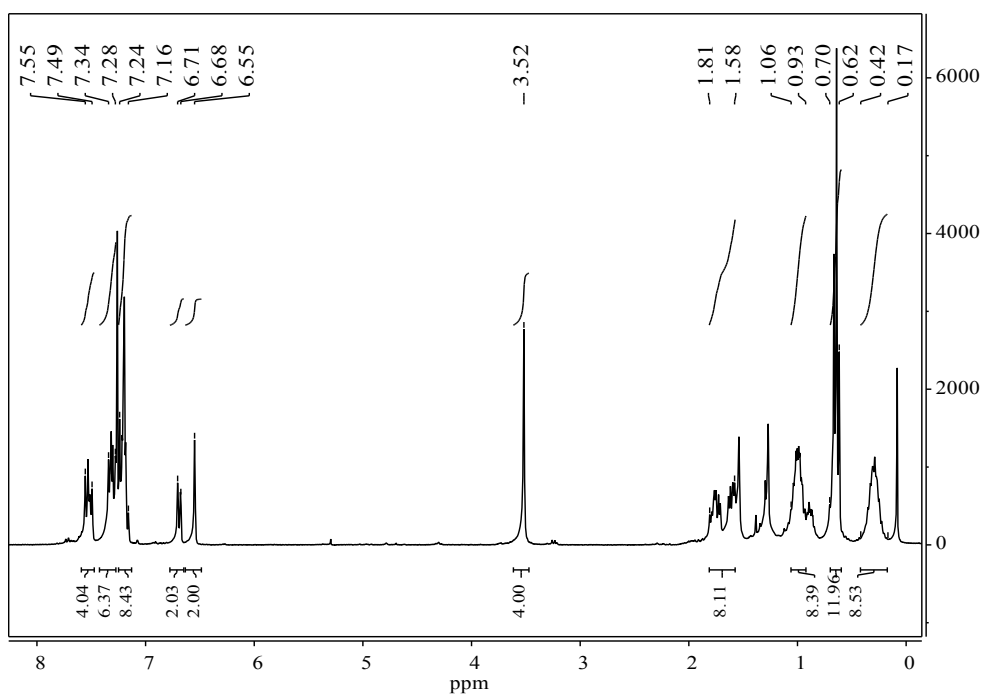


2. ^1H NMR spectra of model compounds 4 and 5

Compound 4:

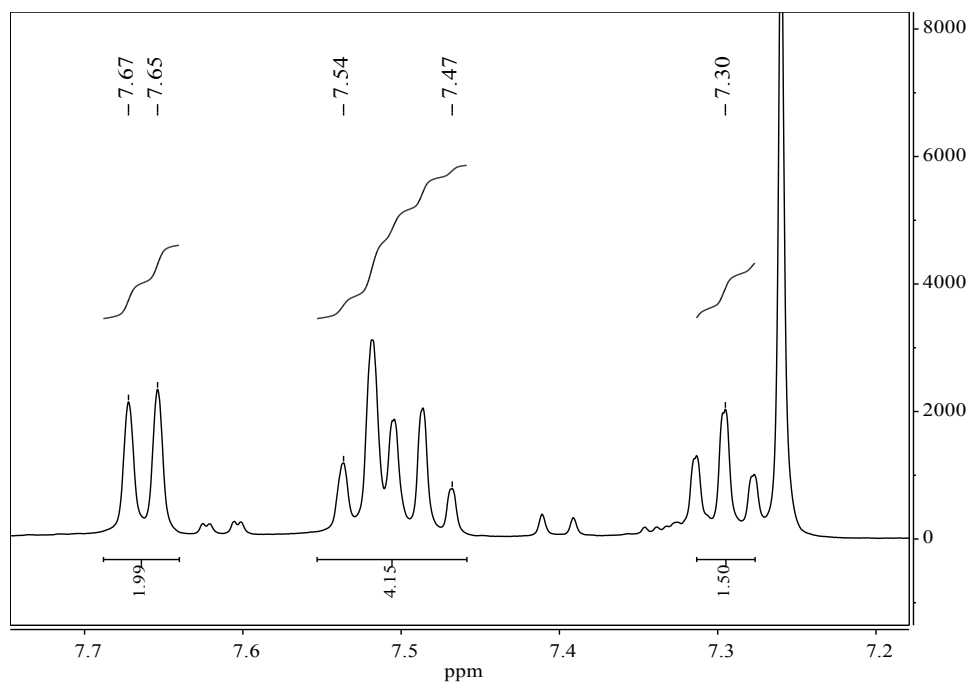


Compound 5 :

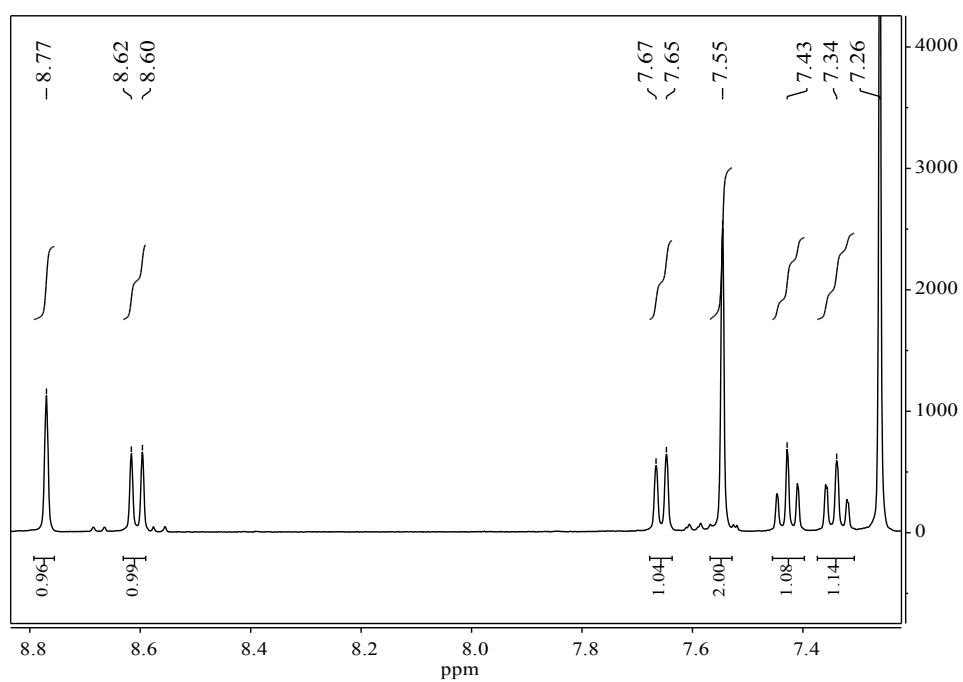


3. ^1H NMR spectra of compounds 10-11, 14-16 and ^1H NMR and $^{13}\text{C}\{^1\text{H}\}$ NMR Spectra of porphyrin 8

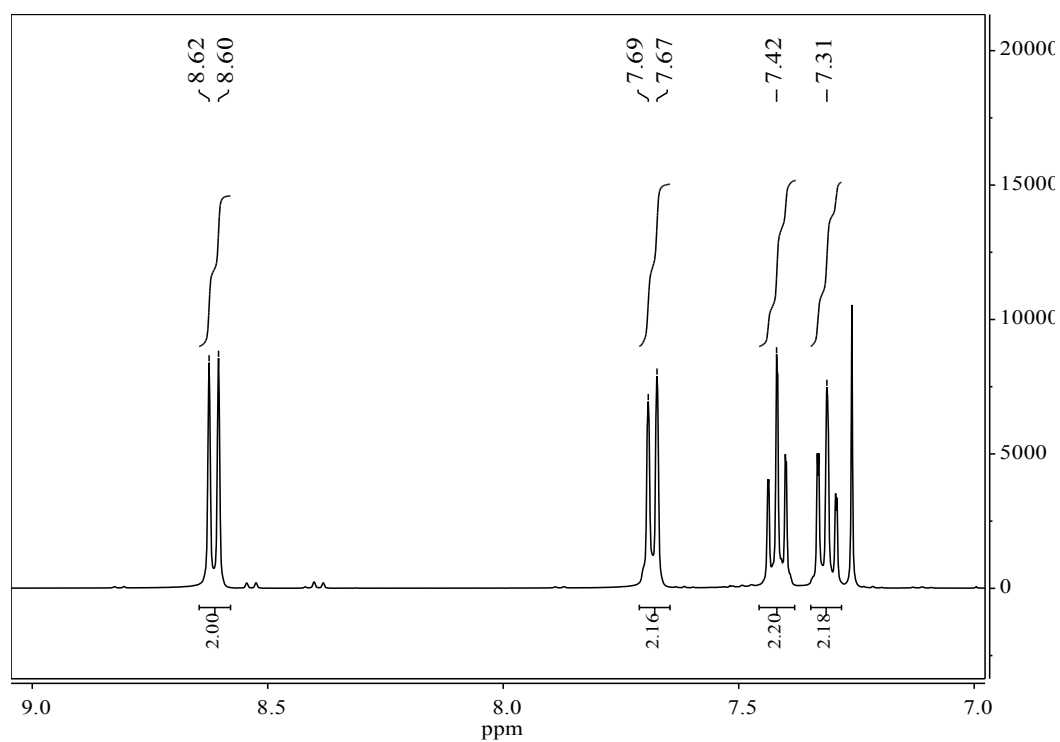
Compound 10:



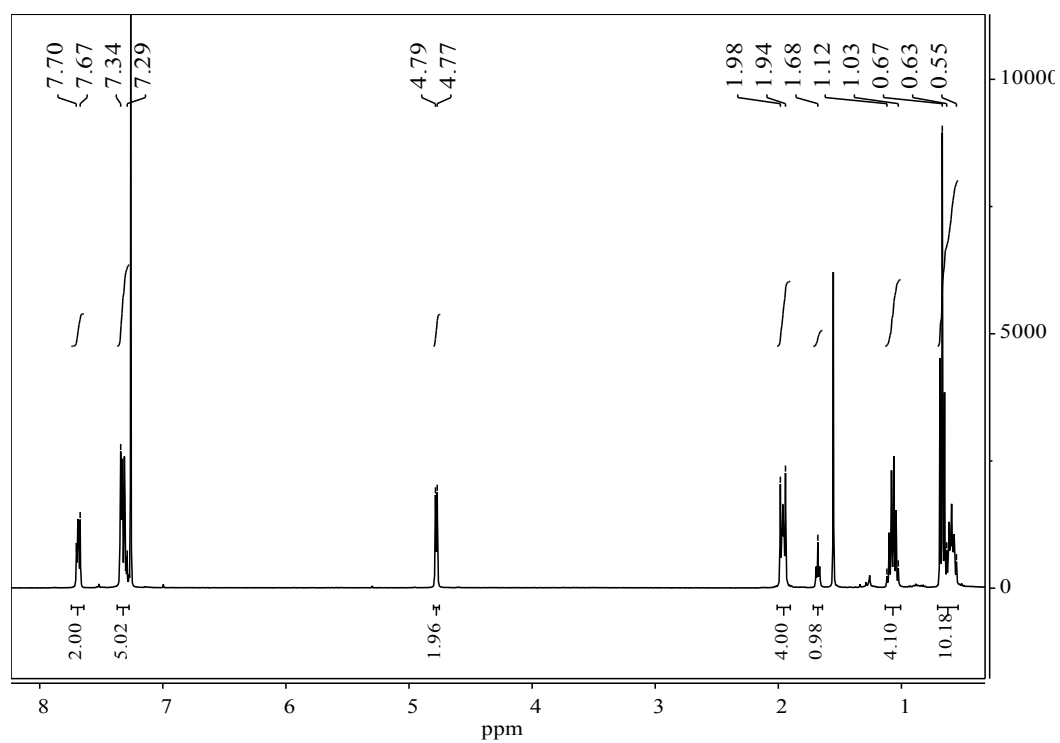
Compound 11a:



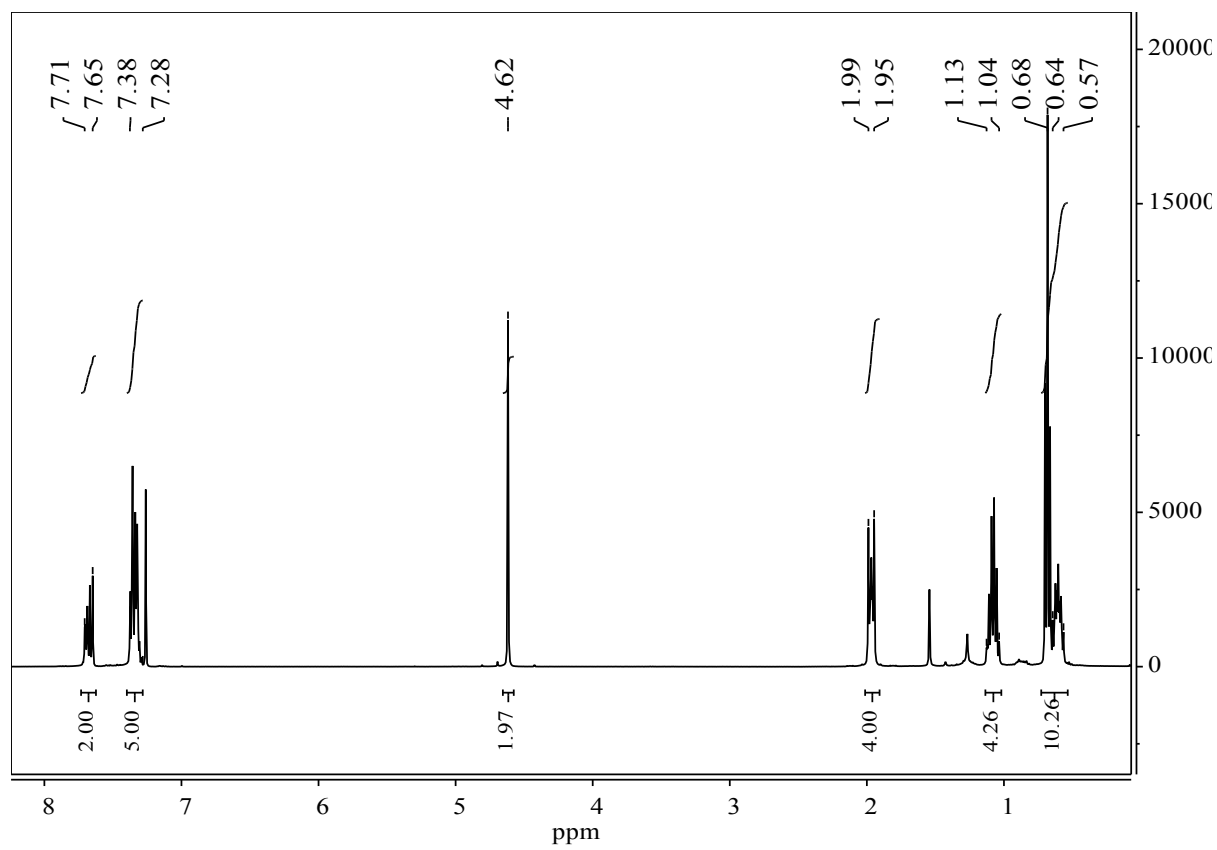
Compound 11b:



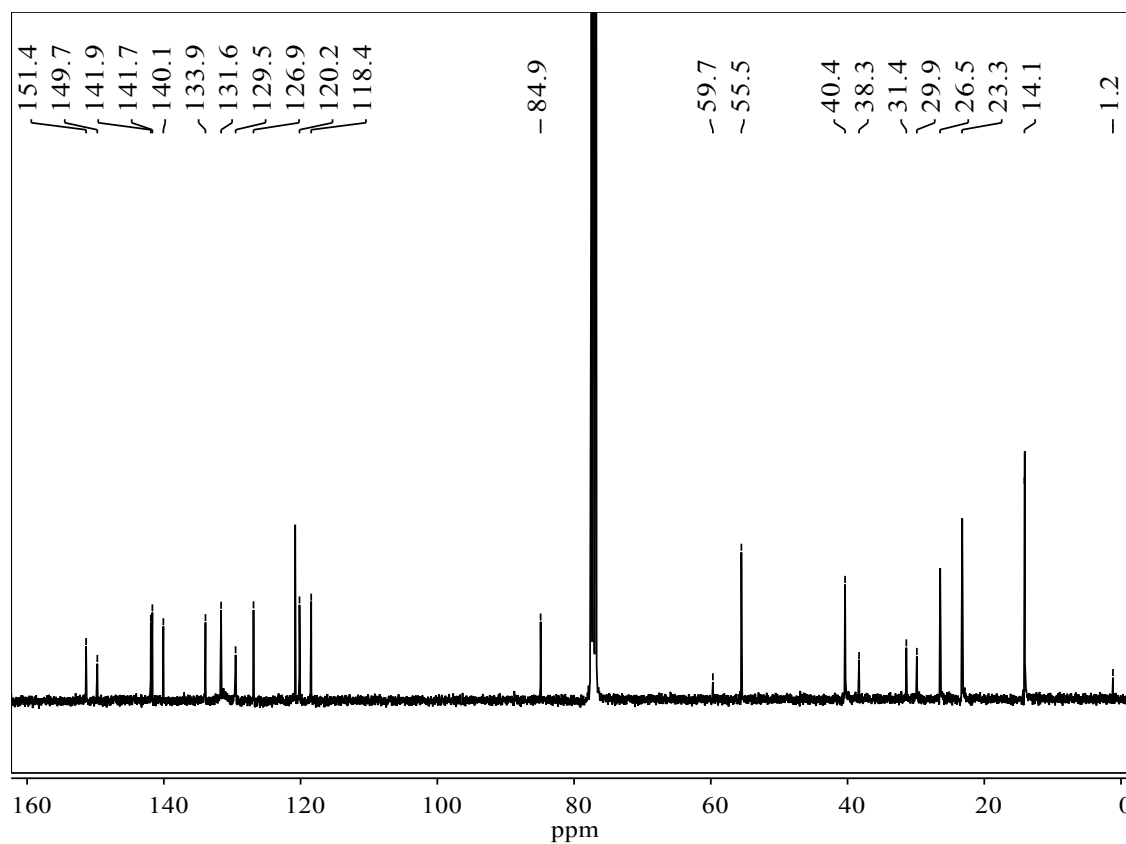
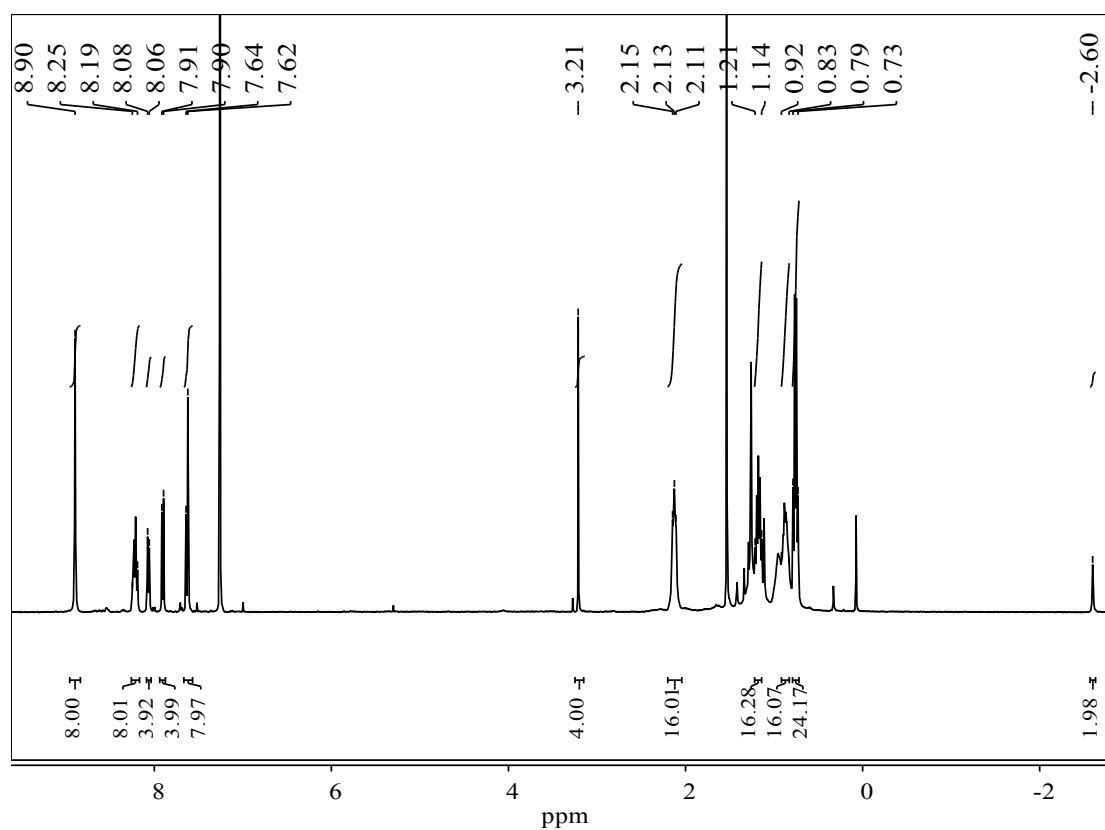
Compound 15:



Compound 16:



Porphyrin 8:



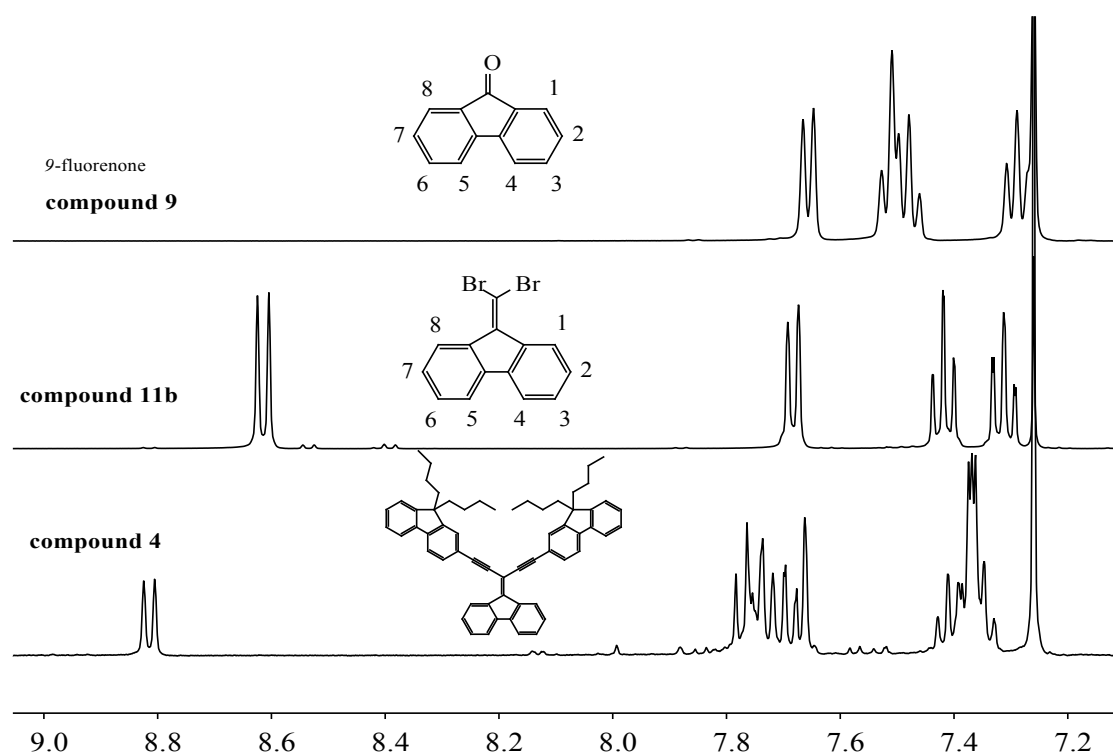
4. Comparison between the ^1H NMR shifts of diagnostic protons

Figure S1. Comparative partial ^1H NMR spectra of the commercial 9-fluorenone (**9**), the compound **11b** and the model compounds **4** in CDCl_3 .

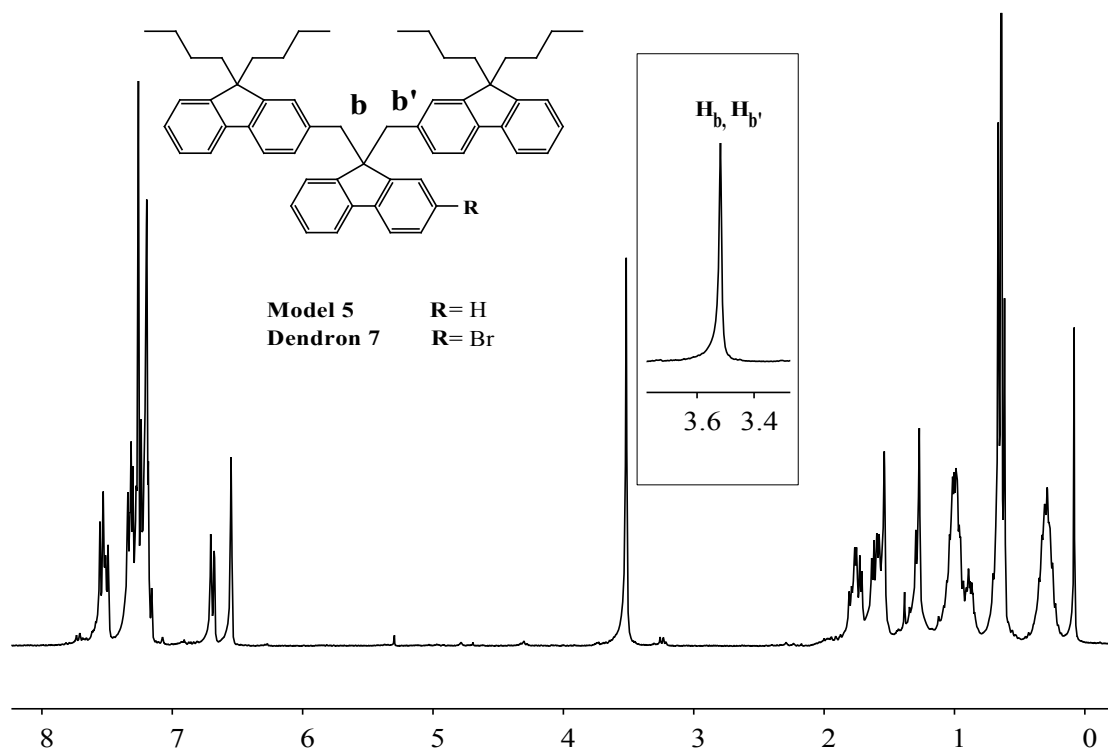
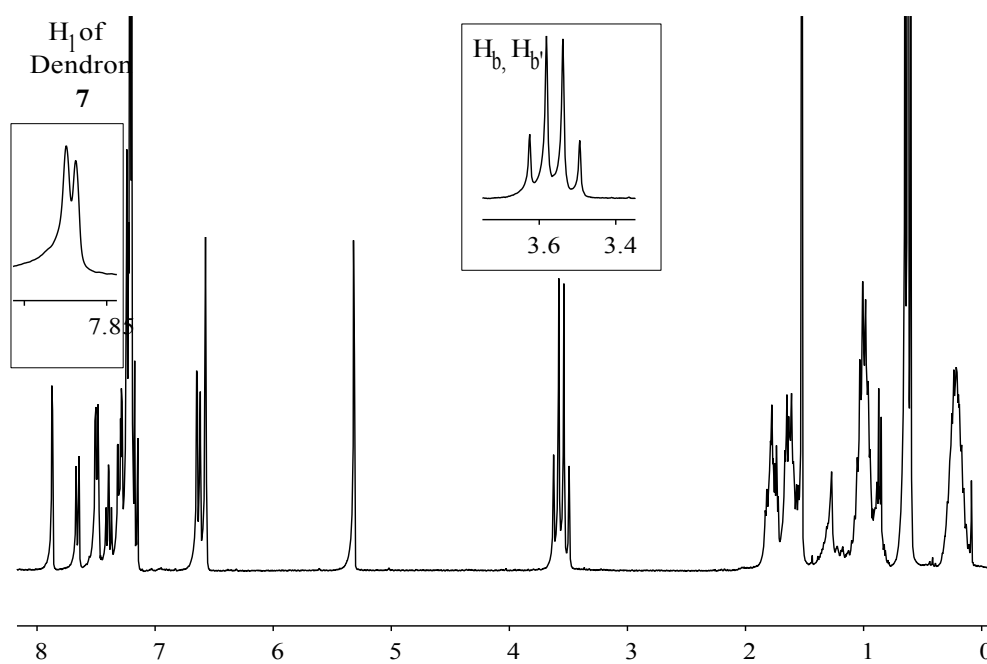
(a) ¹H NMR spectrum of **Model 5** and **dendron 7** in CDCl₃(b) ¹H NMR spectrum of dendron precursor **7** in CD₂Cl₂

Figure S2. Comparison of ¹H NMR spectra of the symmetric **5** (a) and the unsymmetric **7** (b) dendron precursors.

5. Excitation spectra of dendrimers 1 and 2

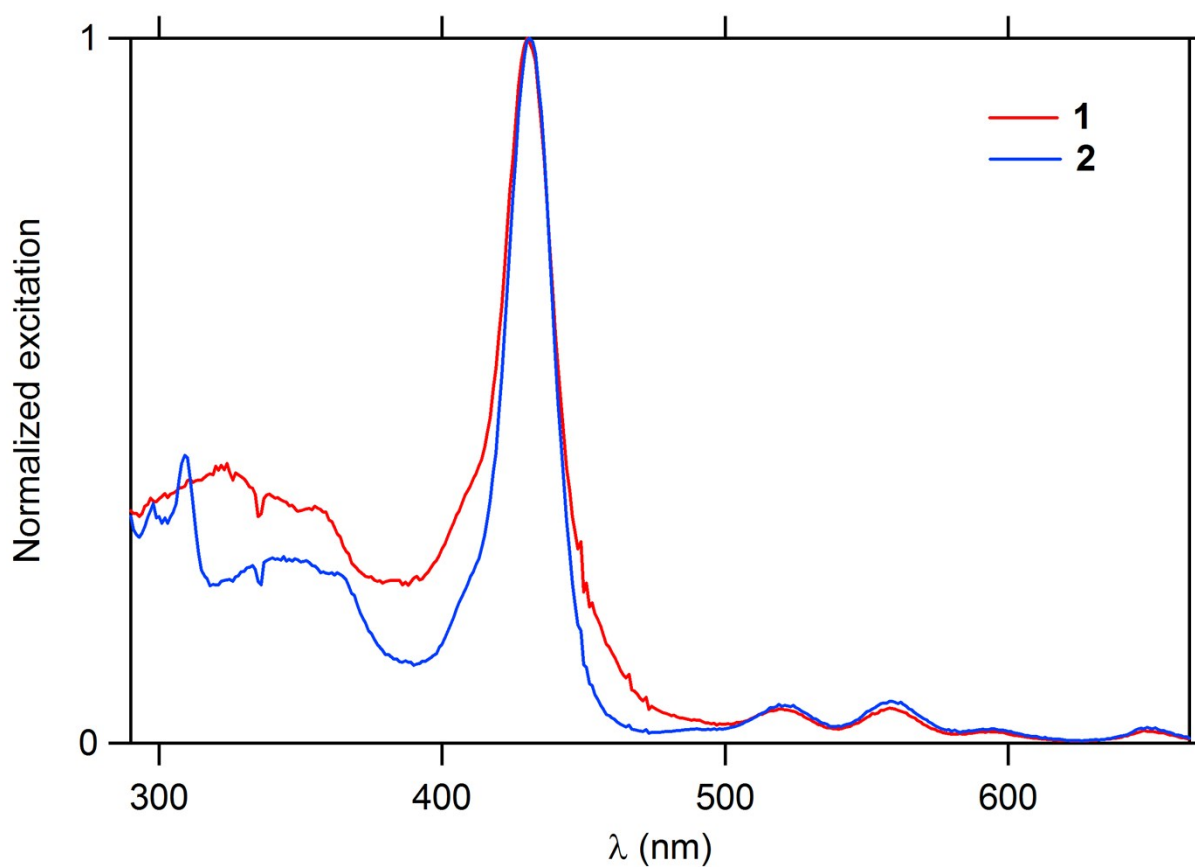


Figure S3. Excitation spectra of dendrimers 1 and 2 in dichloromethane through emission at 670 nm.