

## SUPPLEMENTARY INFORMATION

### Synthesis and *in vitro* PDT evaluation of new porphyrins containing *meso*-epoxymethyl cationic groups

Jaqueline Carneiro<sup>1</sup>, Alan Gonçalves<sup>1</sup>, Zehua Zhou<sup>2</sup>, Kaitlin E. Griffin<sup>2</sup>,  
Nichole E. Kaufman<sup>2</sup> and M. Graça H. Vicente<sup>2\*</sup>

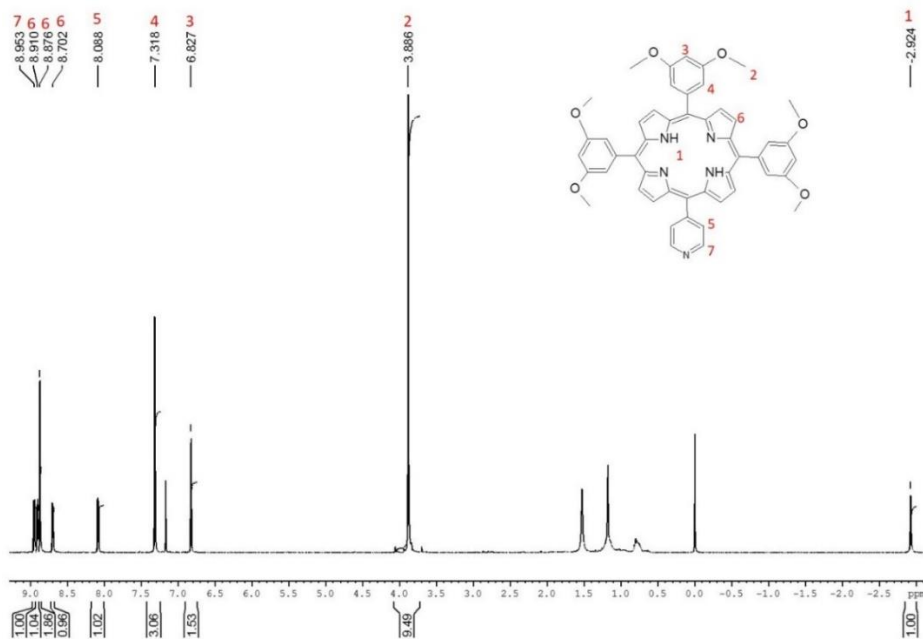
<sup>1</sup>Department of Pharmaceutical Sciences, Federal University of Paraná, Curitiba, PR, Brazil

<sup>2</sup>Department of Chemistry, Louisiana State University, Baton Rouge, LA, USA

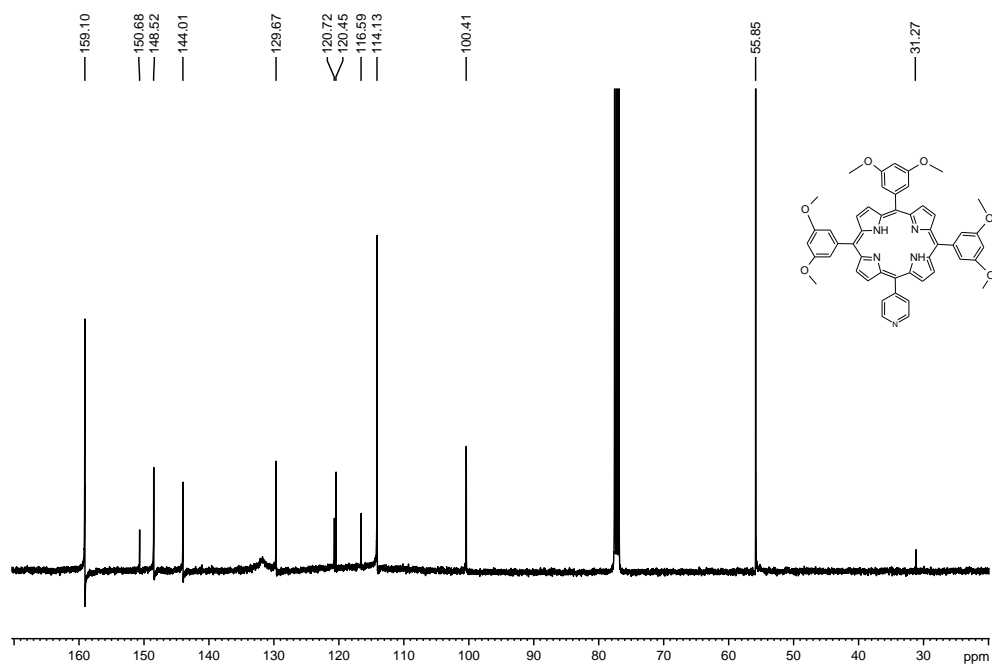
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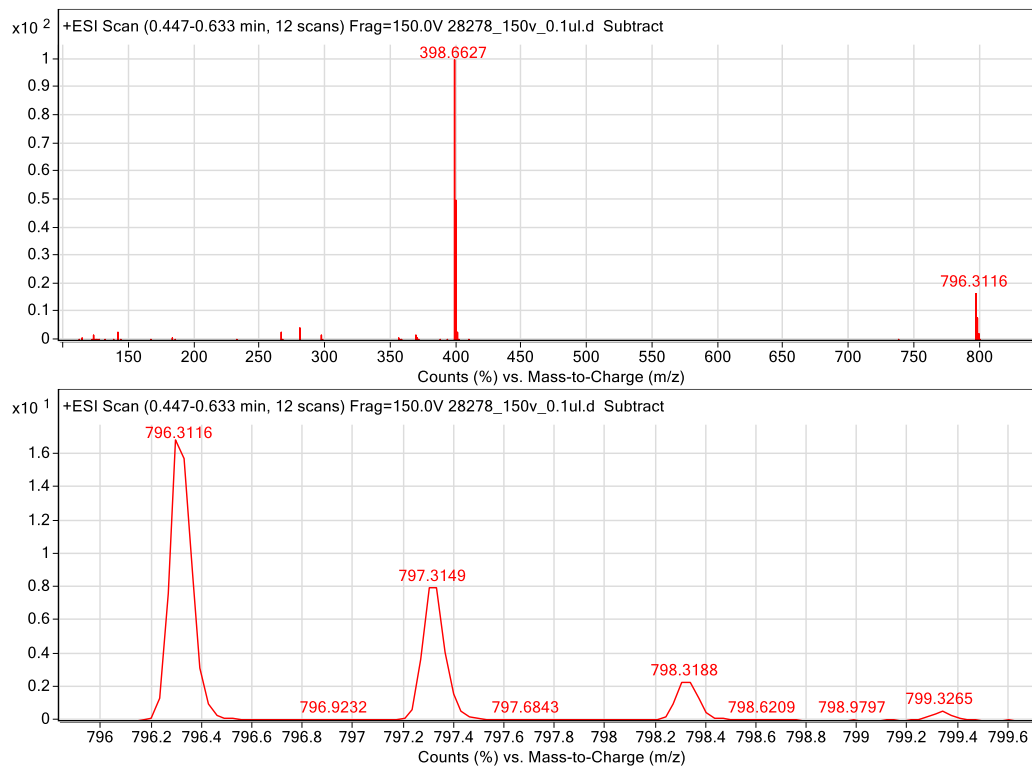
### <sup>1</sup>H NMR of porphyrin 1



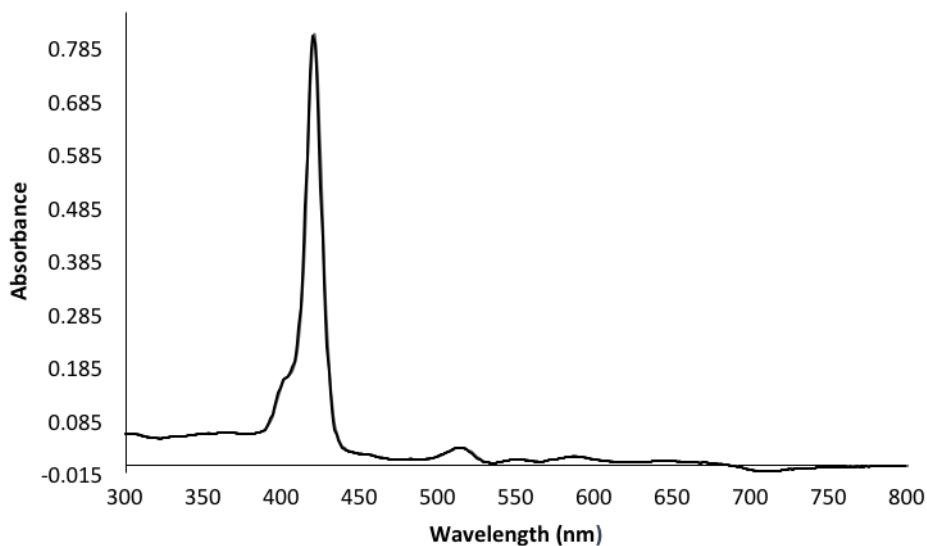
### <sup>13</sup>C NMR of porphyrin 1



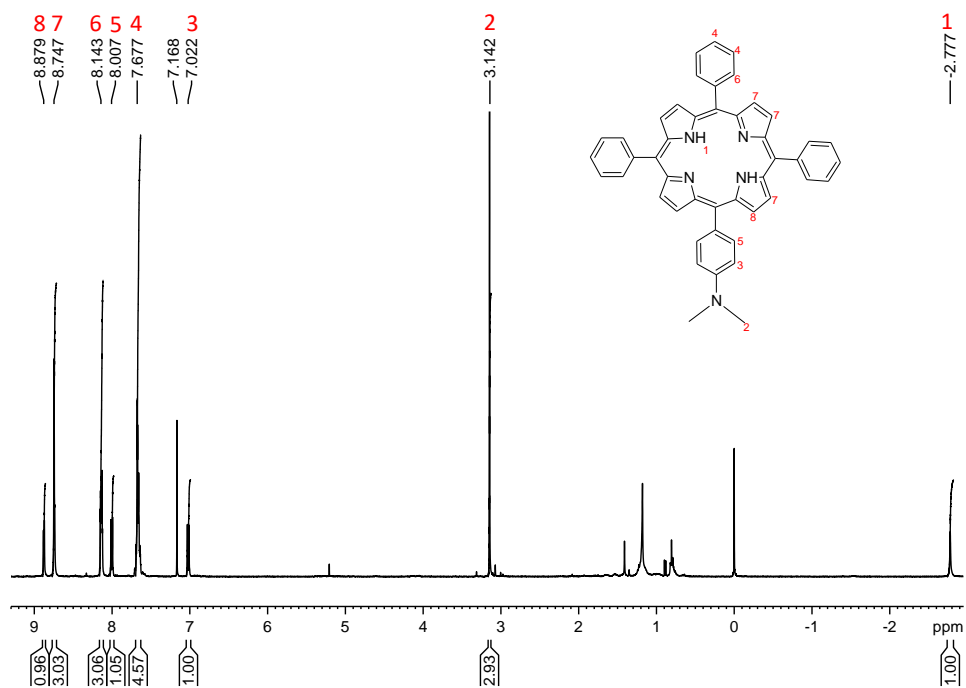
Mass spectrum of porphyrin 1  
Mass match = 96.58%. Abs Diff (ppm) = 1.52.



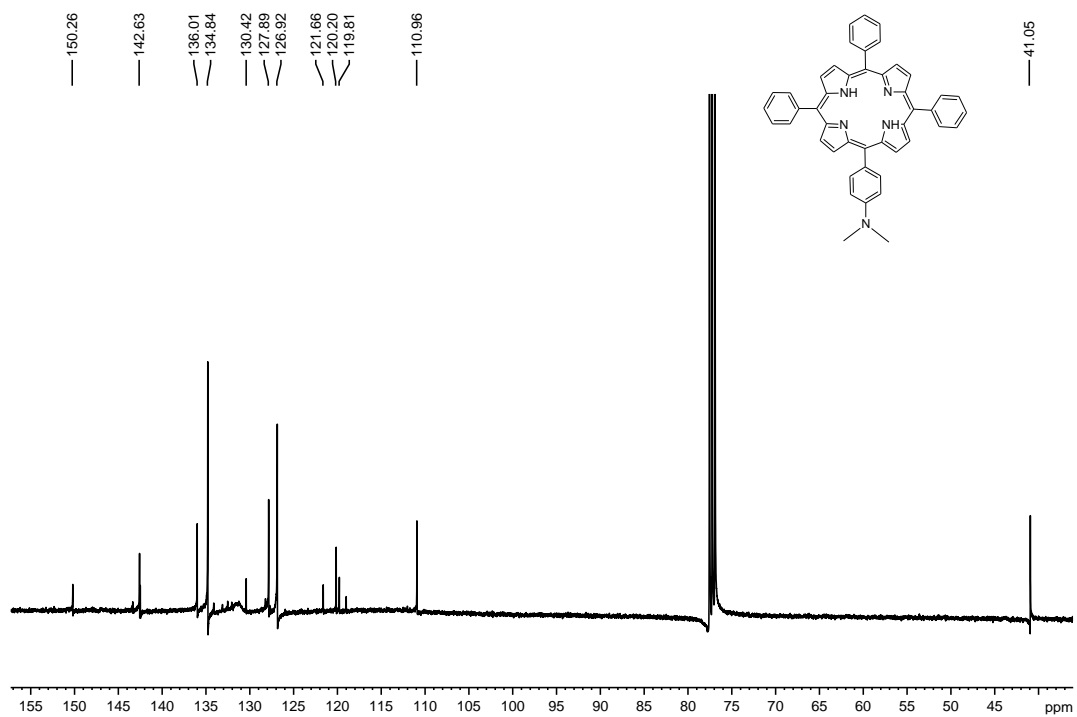
UV-Vis of of porphyrin 1



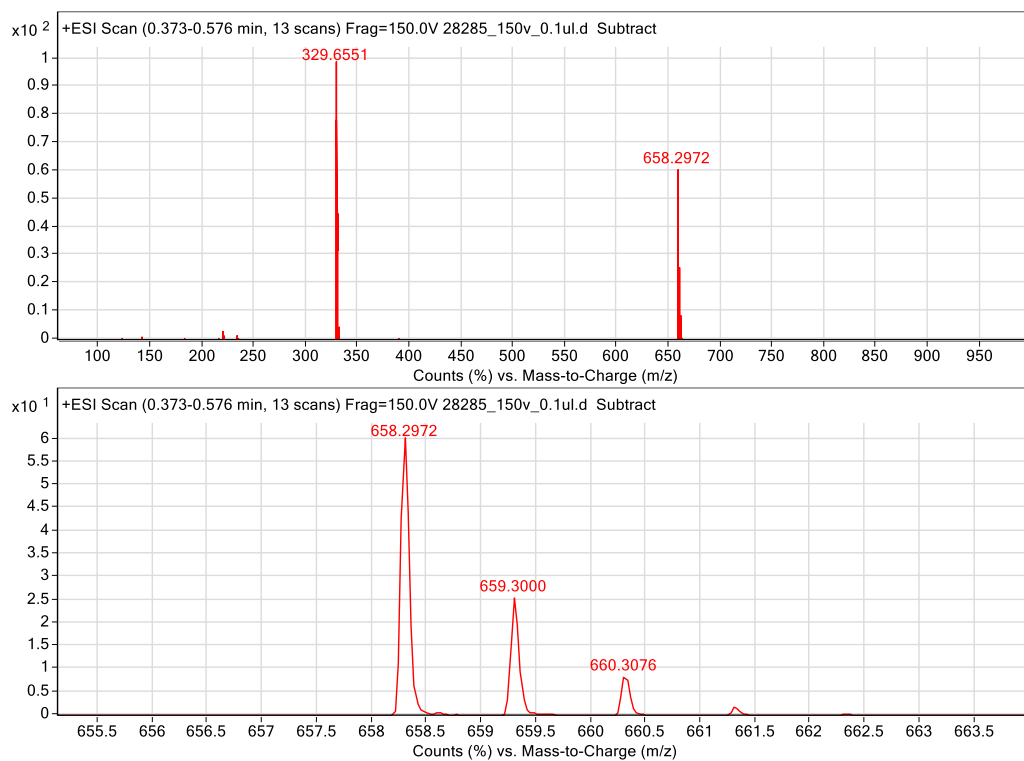
### $^1\text{H}$ NMR of porphyrin 2



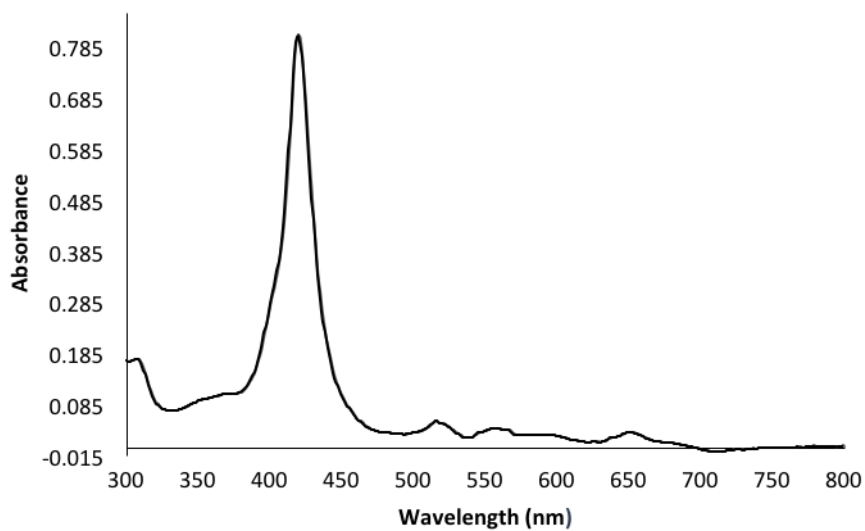
### $^{13}\text{C}$ NMR of porphyrin 2



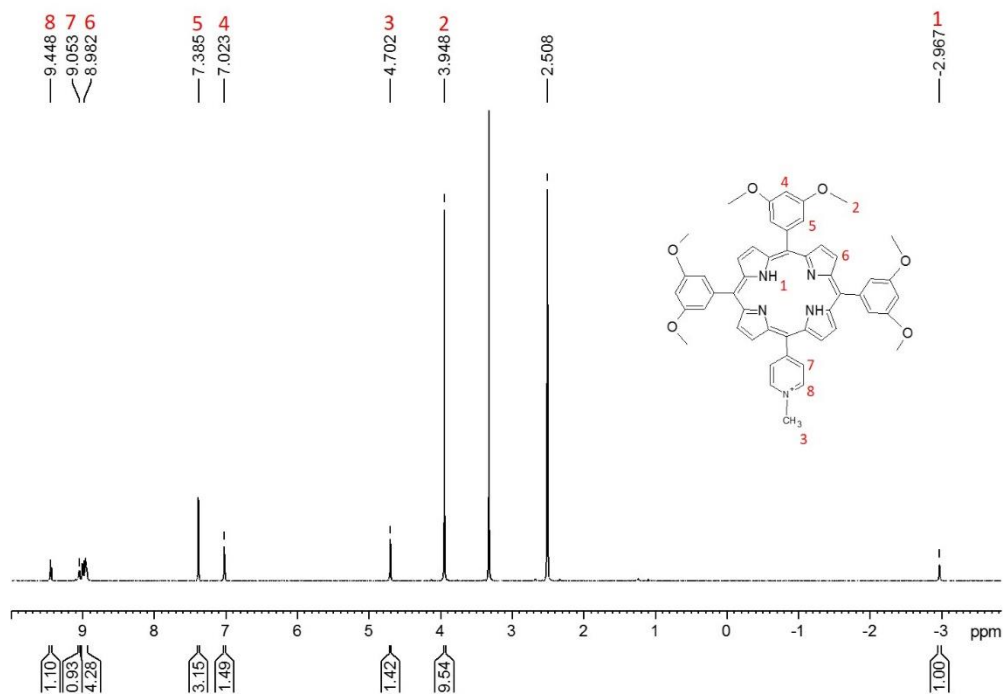
Mass spectrum of porphyrin 2  
Mass match = 98.35%. Abs Diff (ppm) = 1.12.



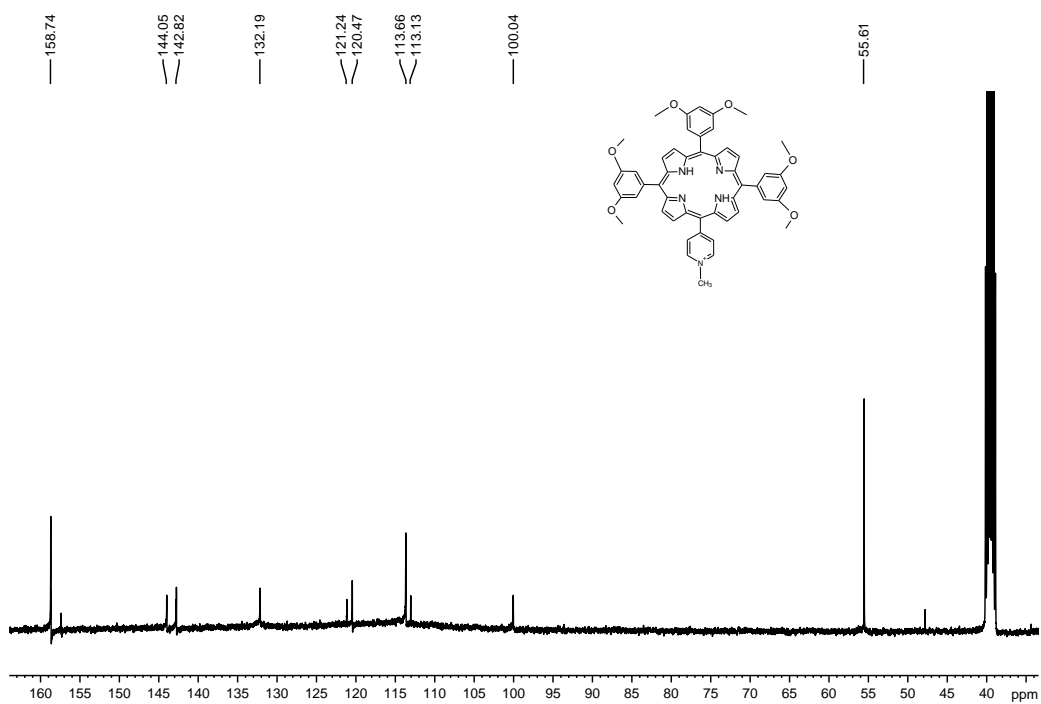
UV-Vis of porphyrin 2



### <sup>1</sup>H NMR of porphyrin 3

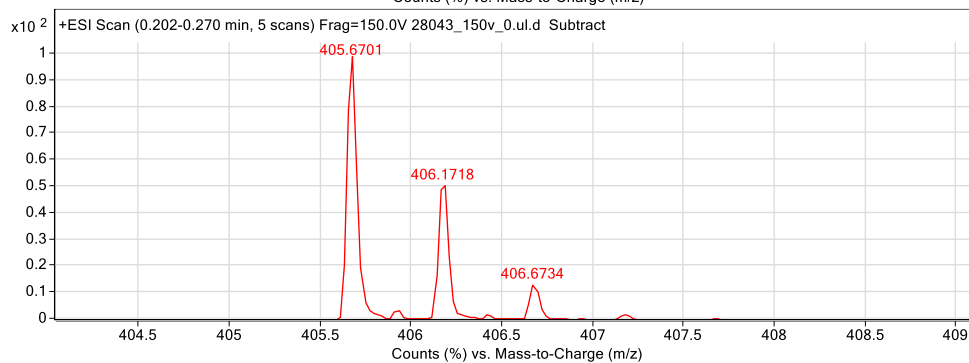
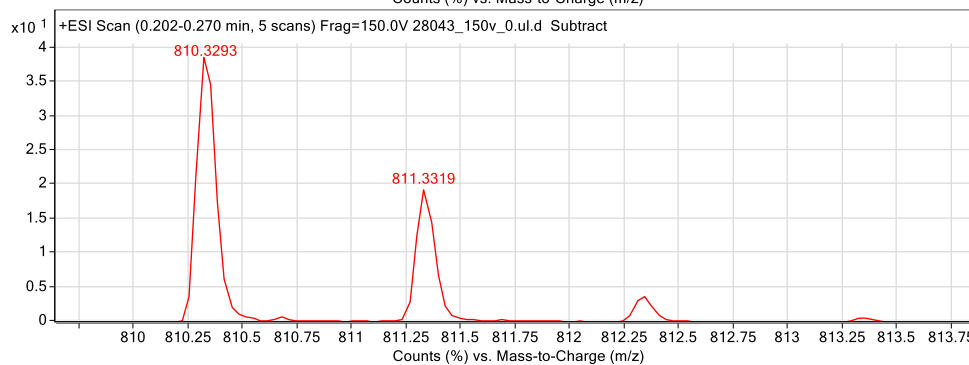
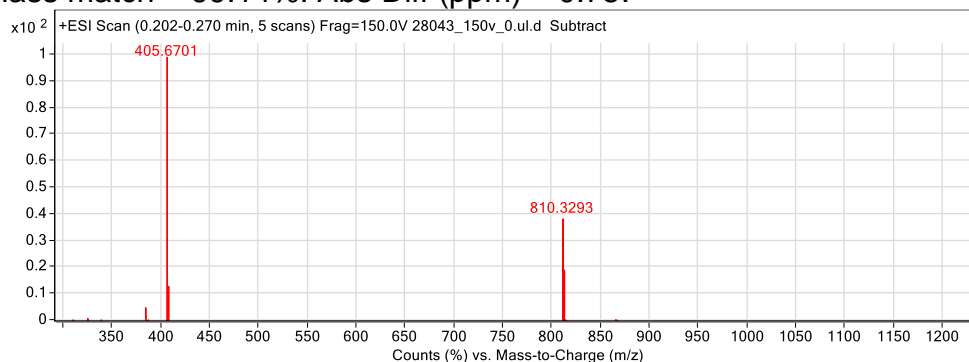


### <sup>13</sup>C NMR of porphyrin 2

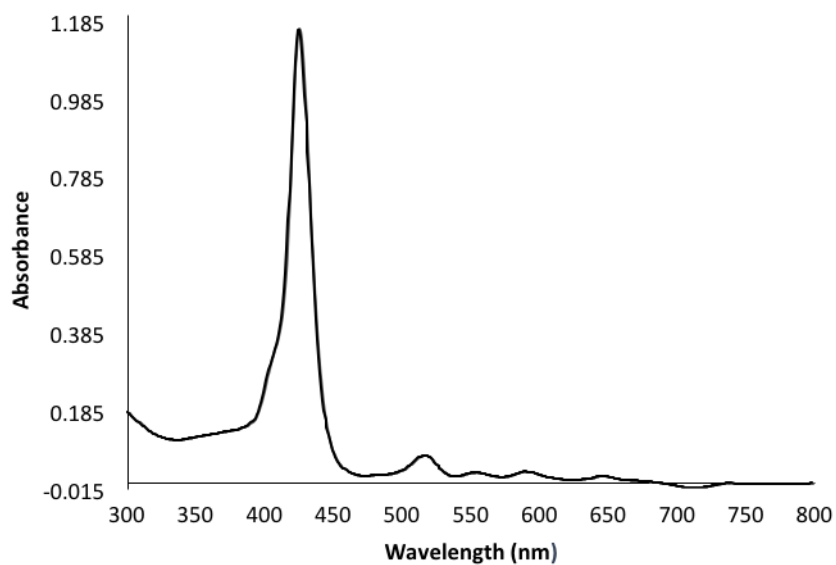


### Mass spectrum of porphyrin 3

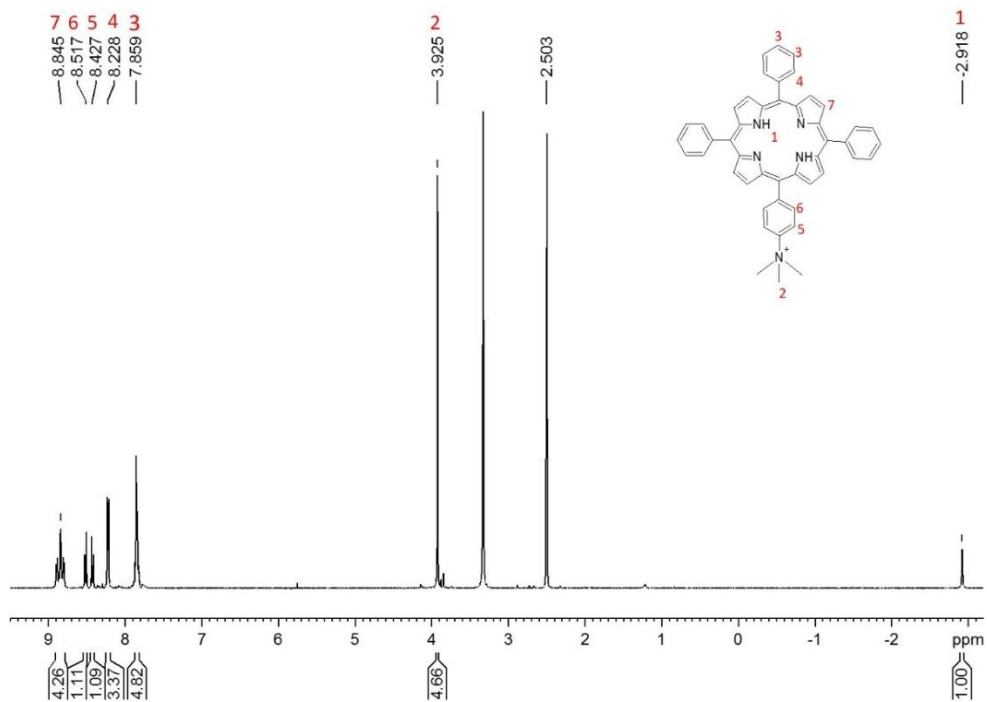
Mass match = 99.14%. Abs Diff (ppm) = 0.75.



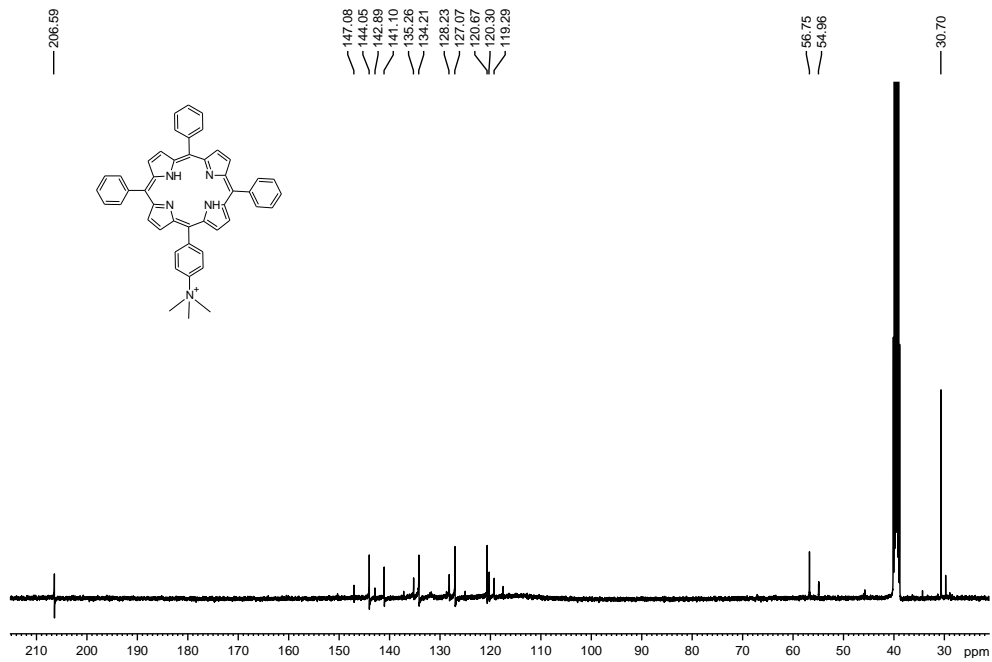
### UV-Vis of of porphyrin 3



### $^1\text{H}$ NMR of porphyrin 4



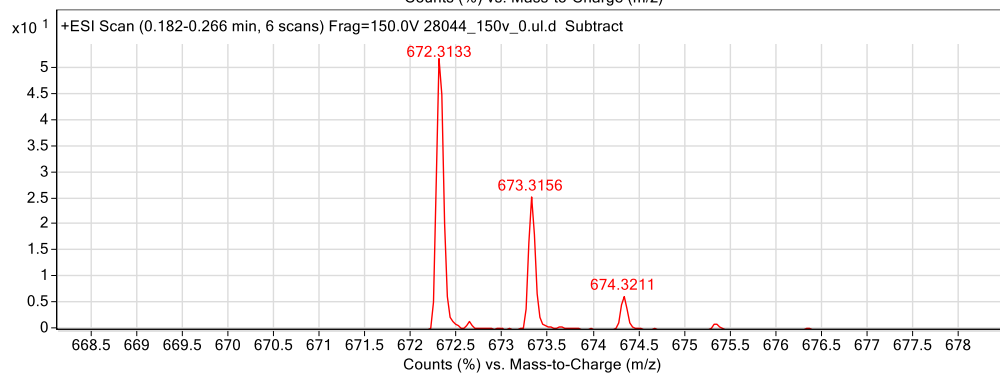
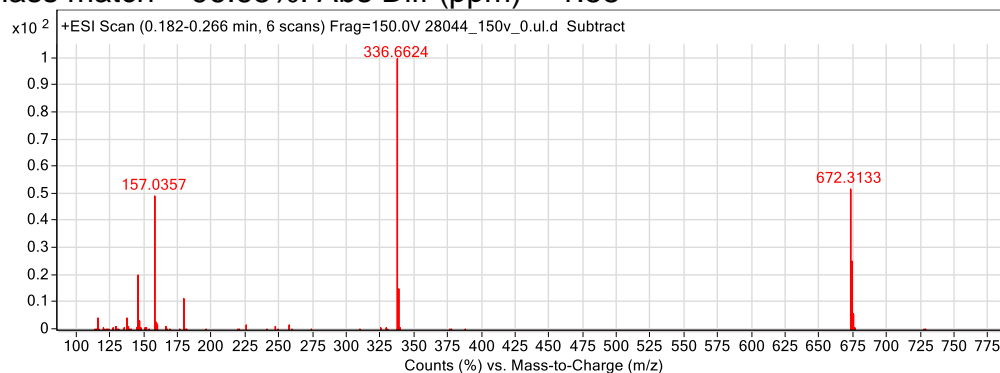
### $^{13}\text{C}$ NMR of porphyrin 4



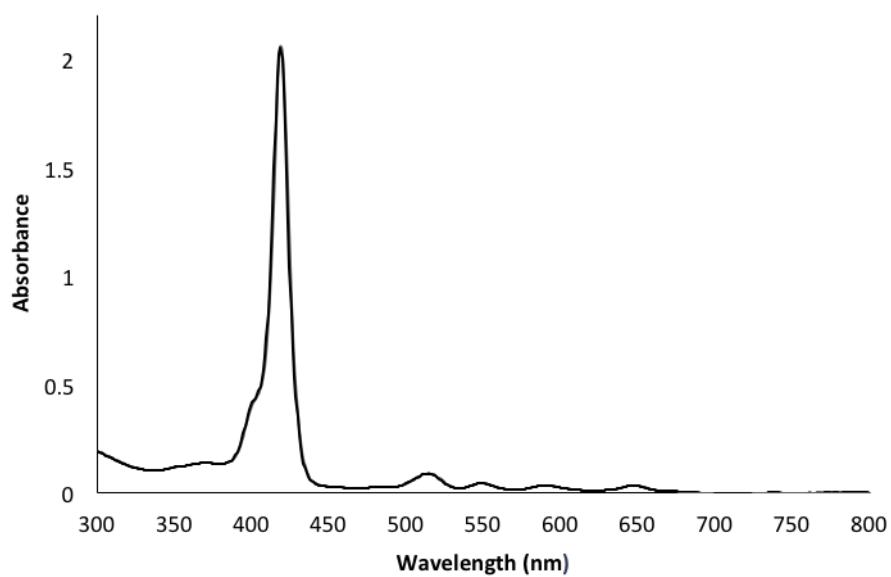


## Mass spectrum of porphyrin 4

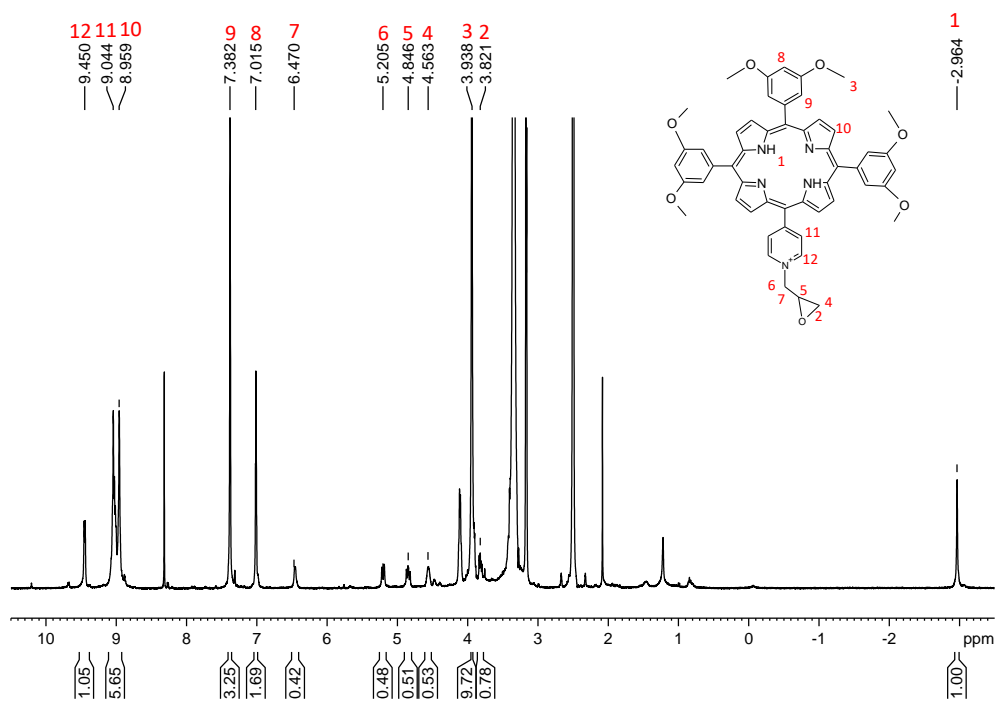
Mass match = 96.68%. Abs Diff (ppm) = 1.58



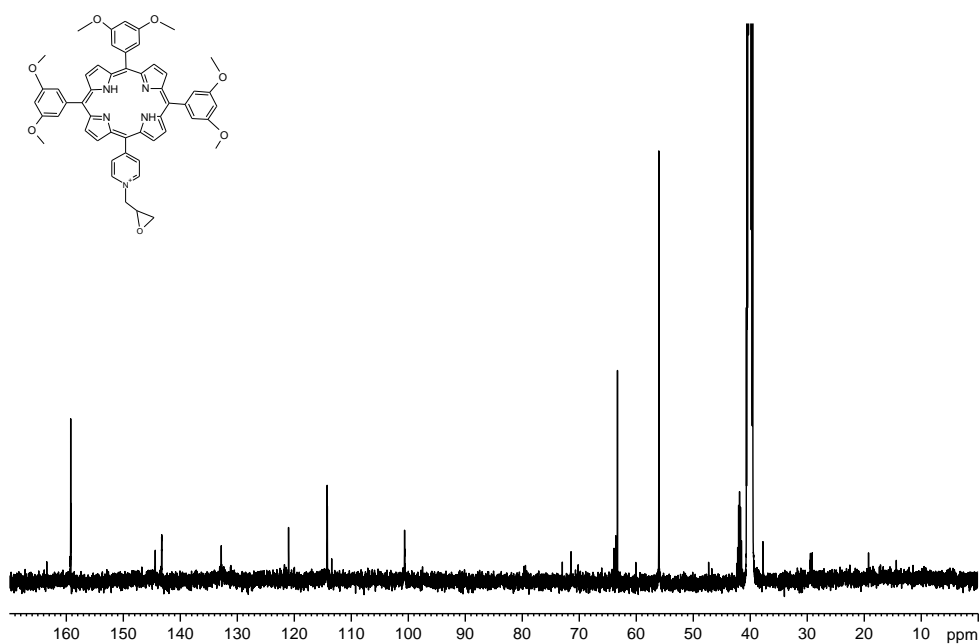
## UV-Vis of of porphyrin 4



# <sup>1</sup>H NMR of porphyrin 5

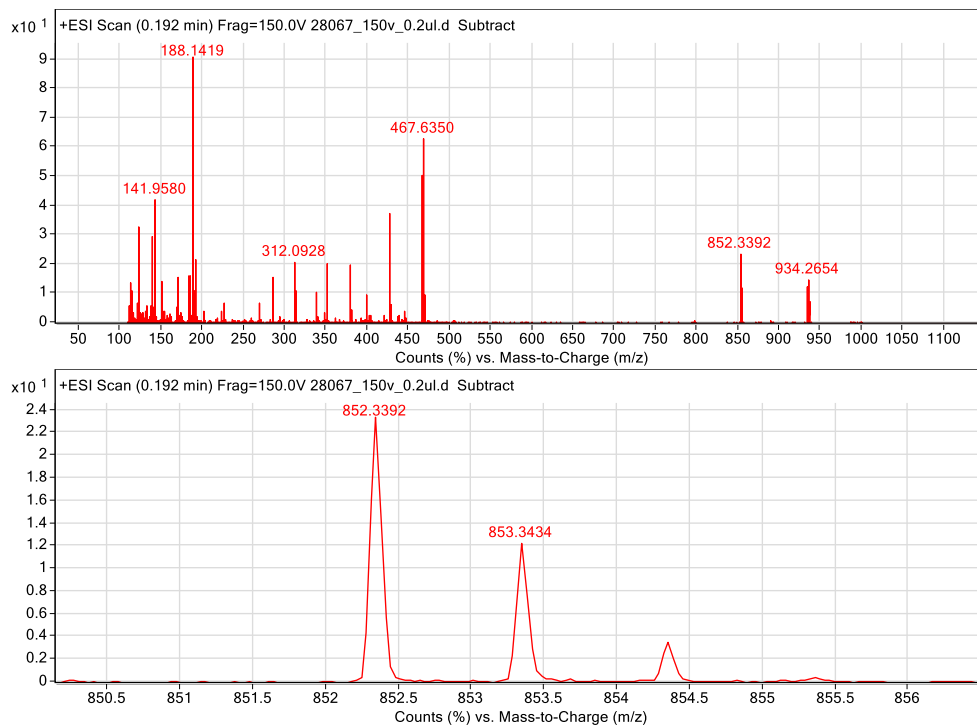


# <sup>13</sup>C NMR of porphyrin 5

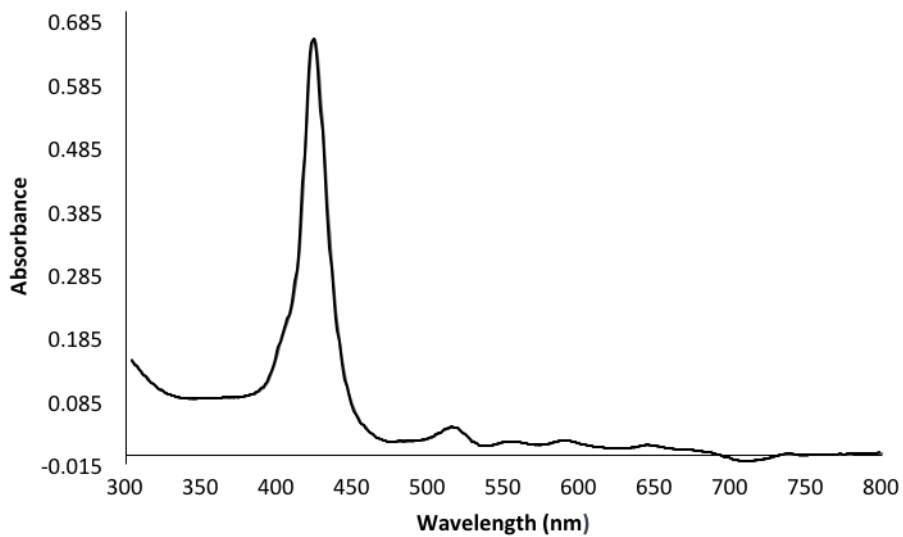


## Mass spectrum of porphyrin 5

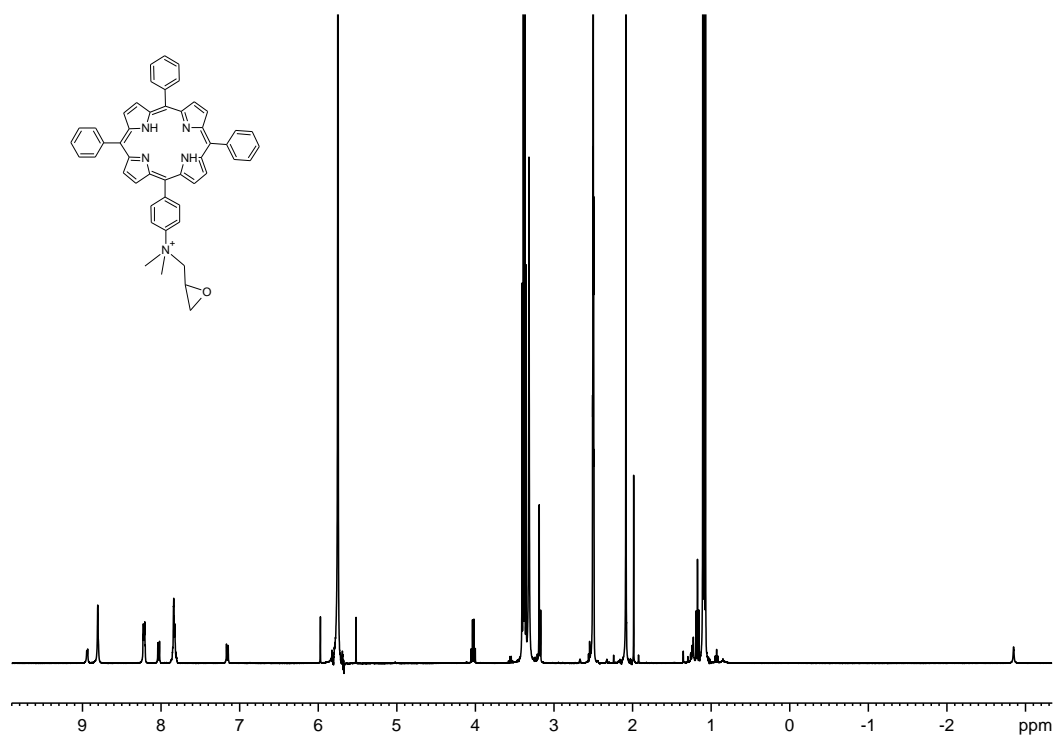
Mass match = 99.94 %. Abs Diff (ppm) = 0.2.



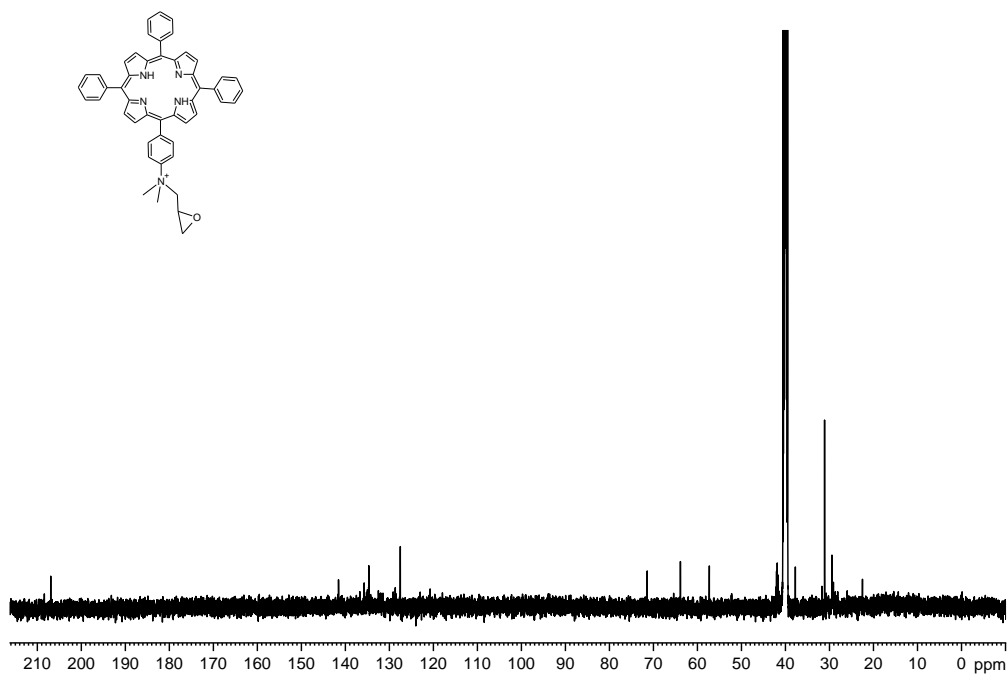
## UV-Vis of porphyrin 5



### <sup>1</sup>H NMR of porphyrin **6**

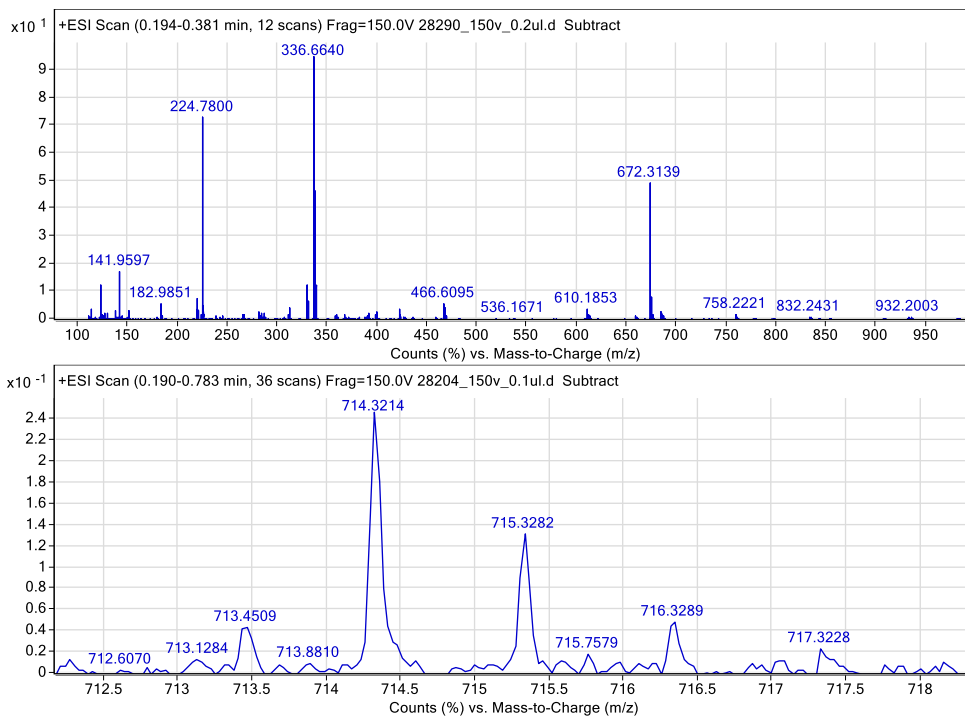


### <sup>13</sup>C NMR of porphyrin **6**

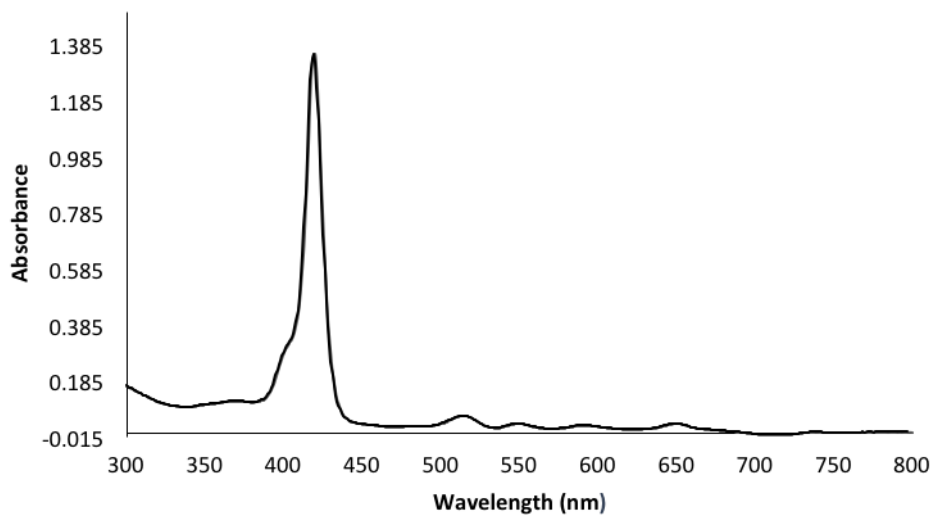


## Mass spectrum of porphyrin 6

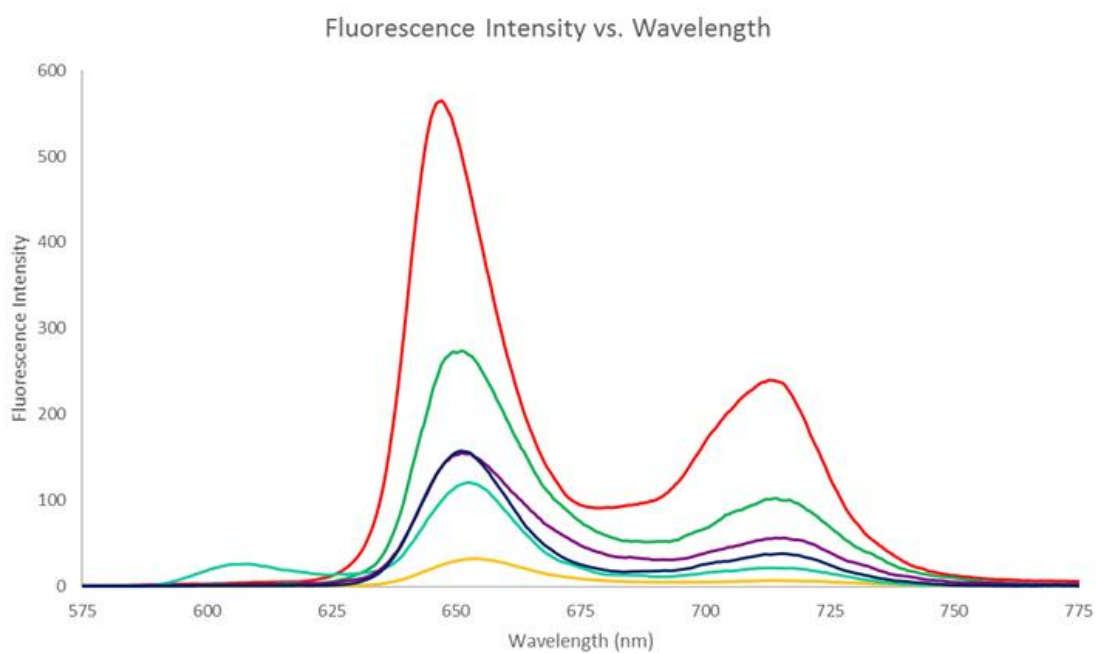
Mass match = 97.98%. Abs Diff (ppm) = 1.2.



## UV-Vis of porphyrin 6



Fluorescence emission of porphyrins **1** (red), **2** (yellow), **3** (green), **4** (cyan), **5** (purple) and **6** (blue) in DMSO at a concentration of  $2 \times 10^{-6}$  M.



Singlet oxygen generation by porphyrins **1-6** and MB

