Electronic Supplementary Material (ESI) for New Journal of Chemistry

SUPPORTING INFORMATION

Star shaped water-soluble chromophores: synthesis, spectroscopic studies and first results in bio-imaging and cell's death induction

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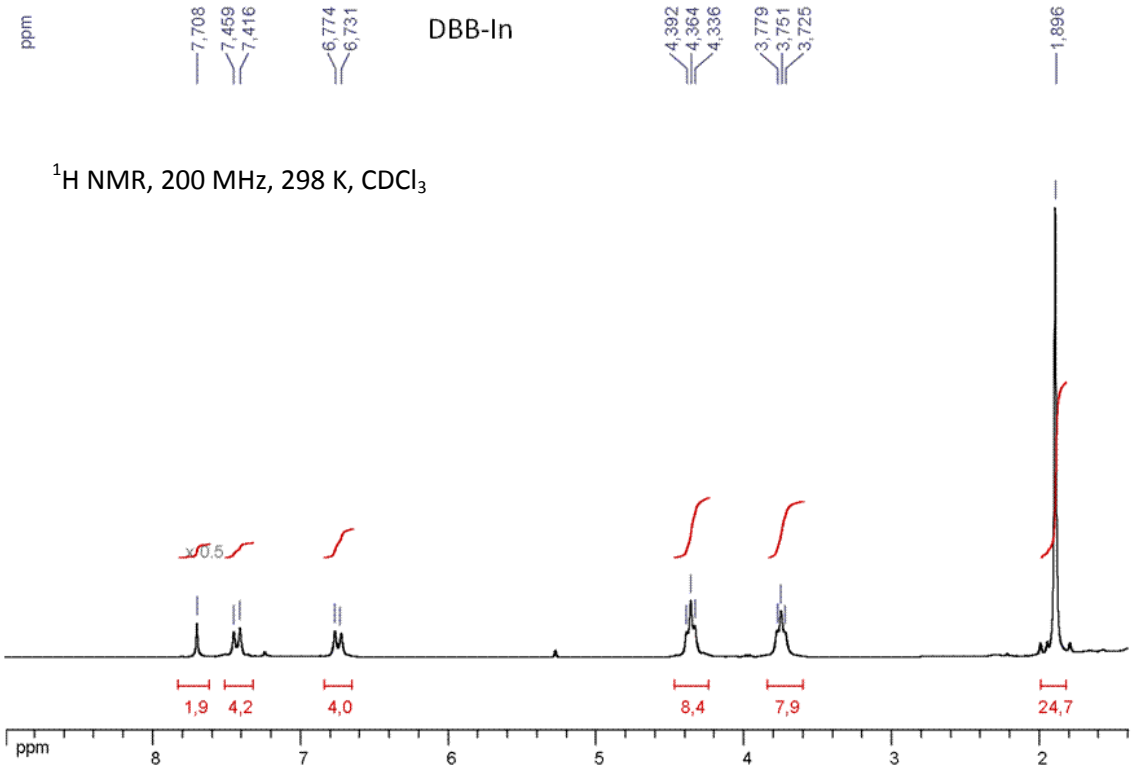
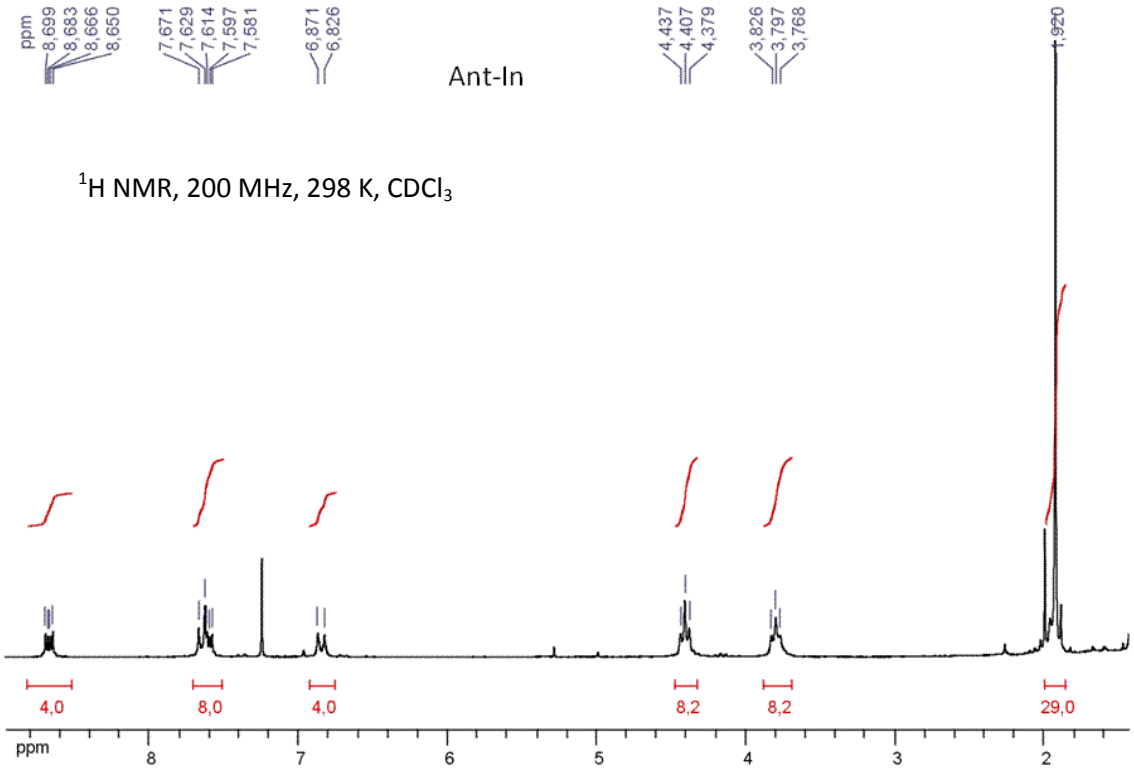
CONTENT :

S1 NMR spectra of all new compounds

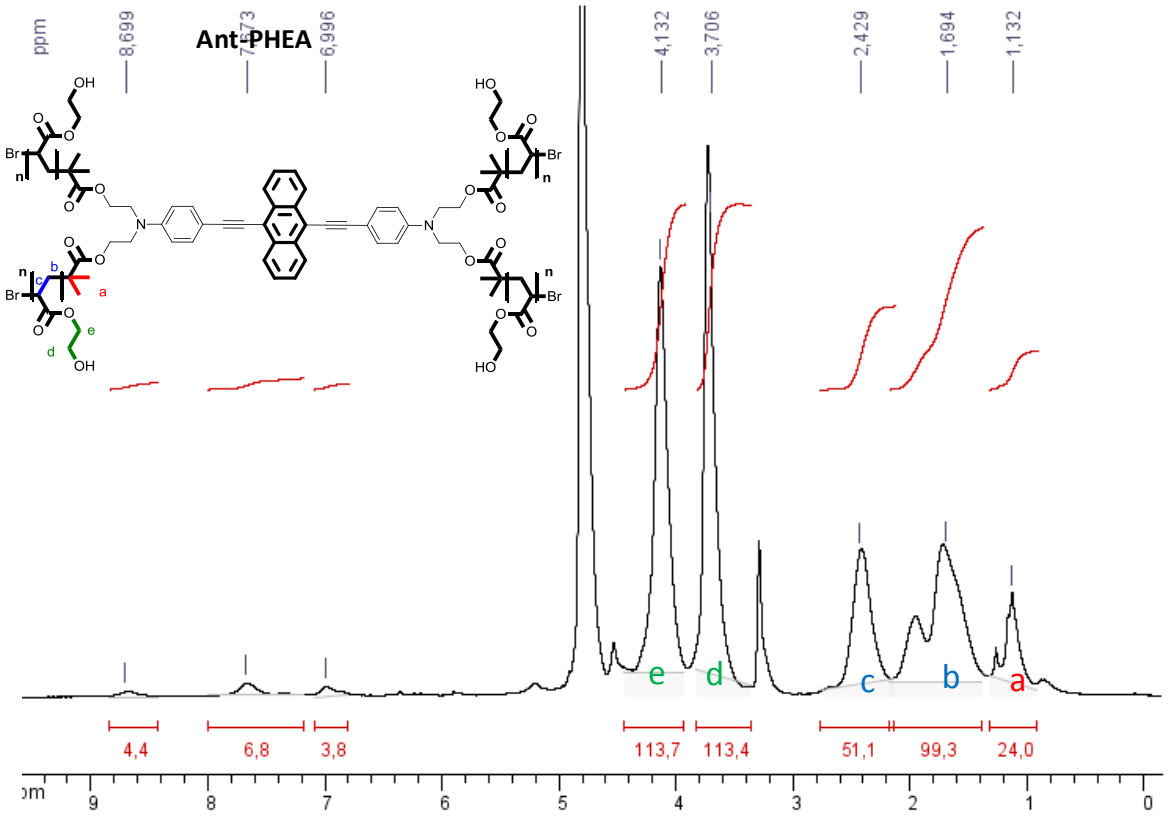


^{1}H NMR, 200 MHz, 298 K, $CDCl_3$

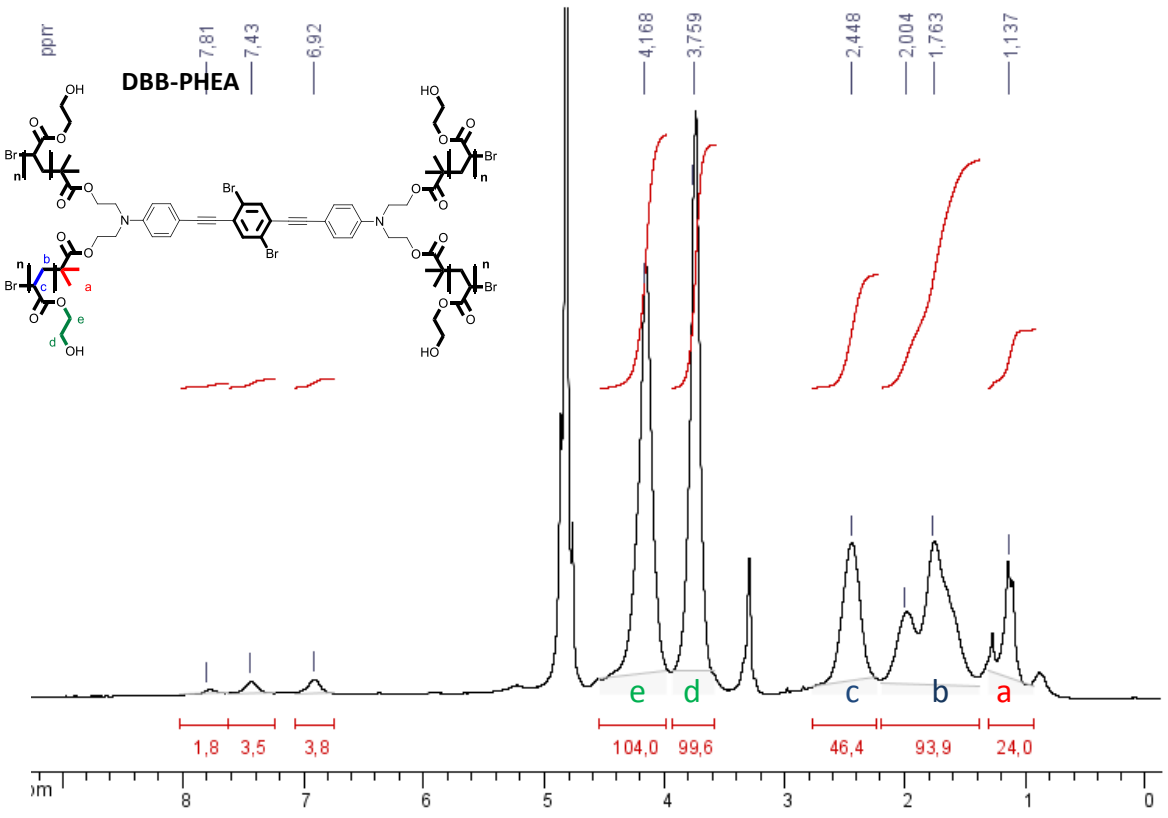


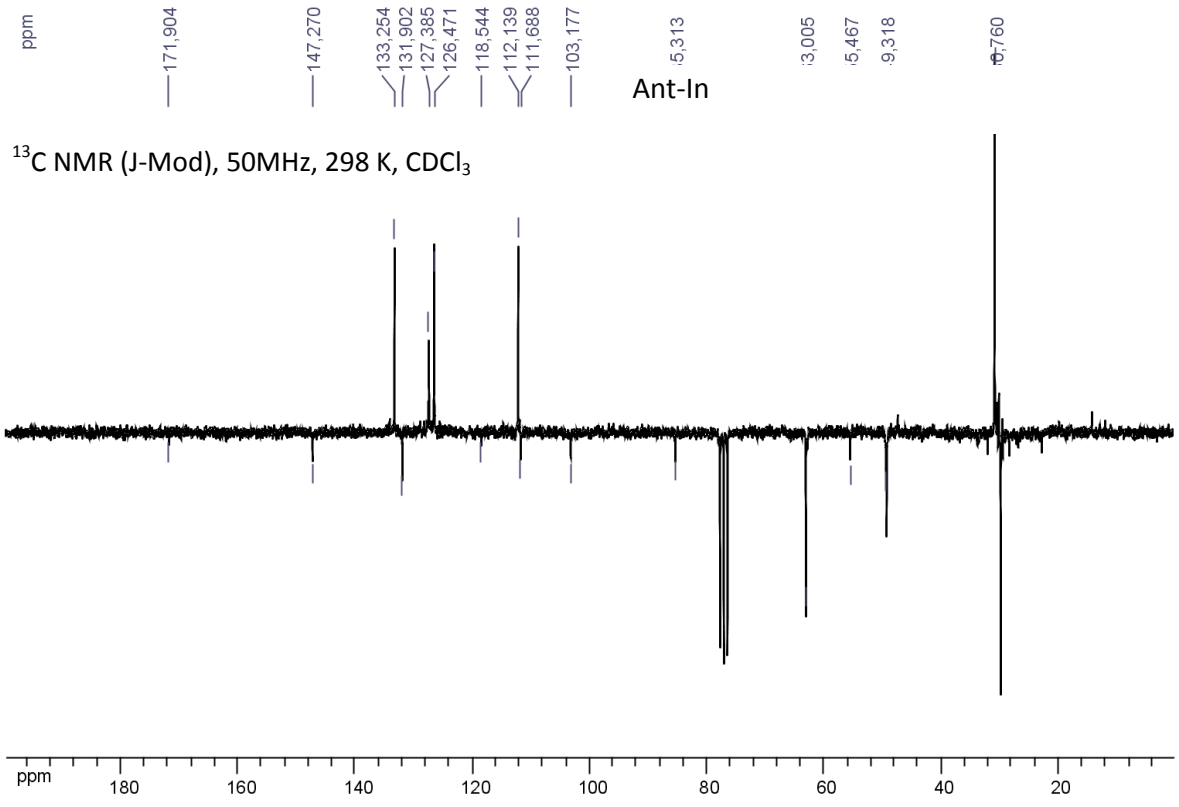
^{1}H NMR, 200 MHz, 298 K, $CDCl_3$

^{1}H NMR, 200 MHz, 298 K, CD_3OD

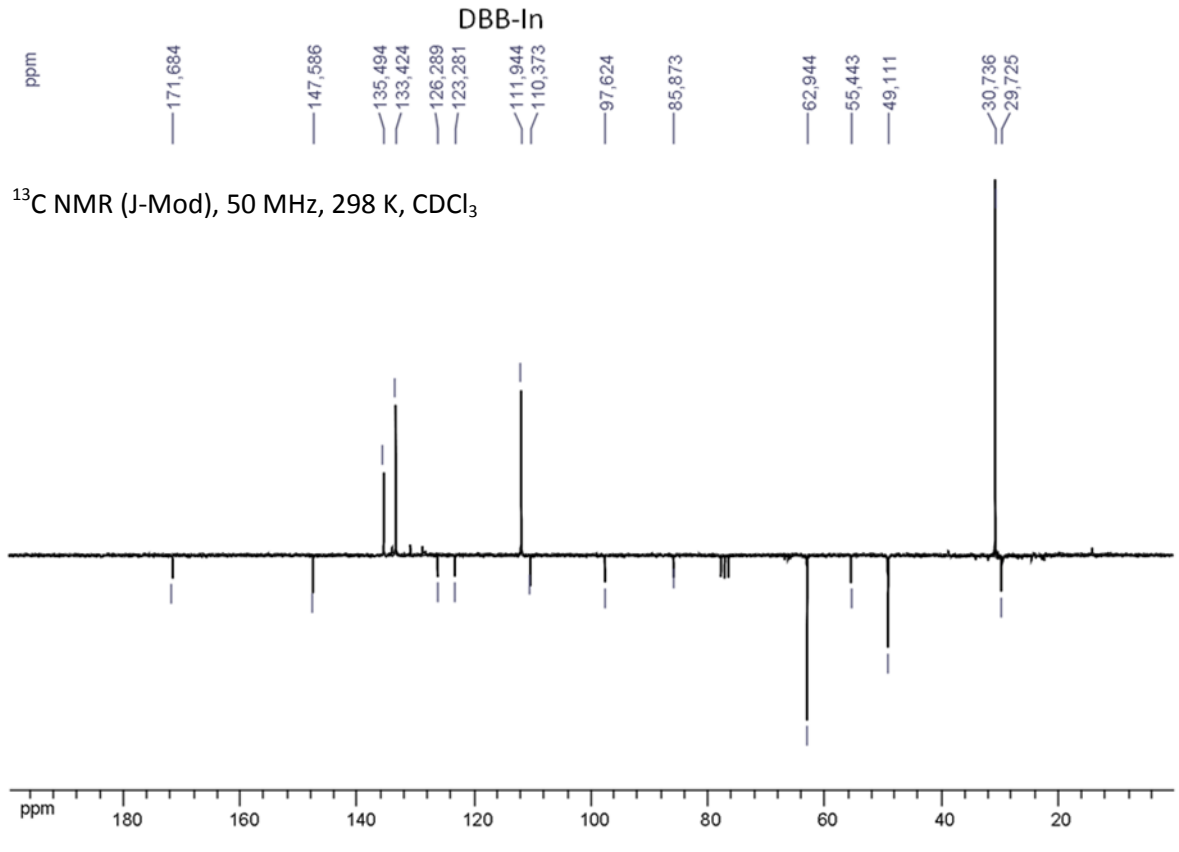


^{1}H NMR, 200 MHz, 298 K, CD_3OD

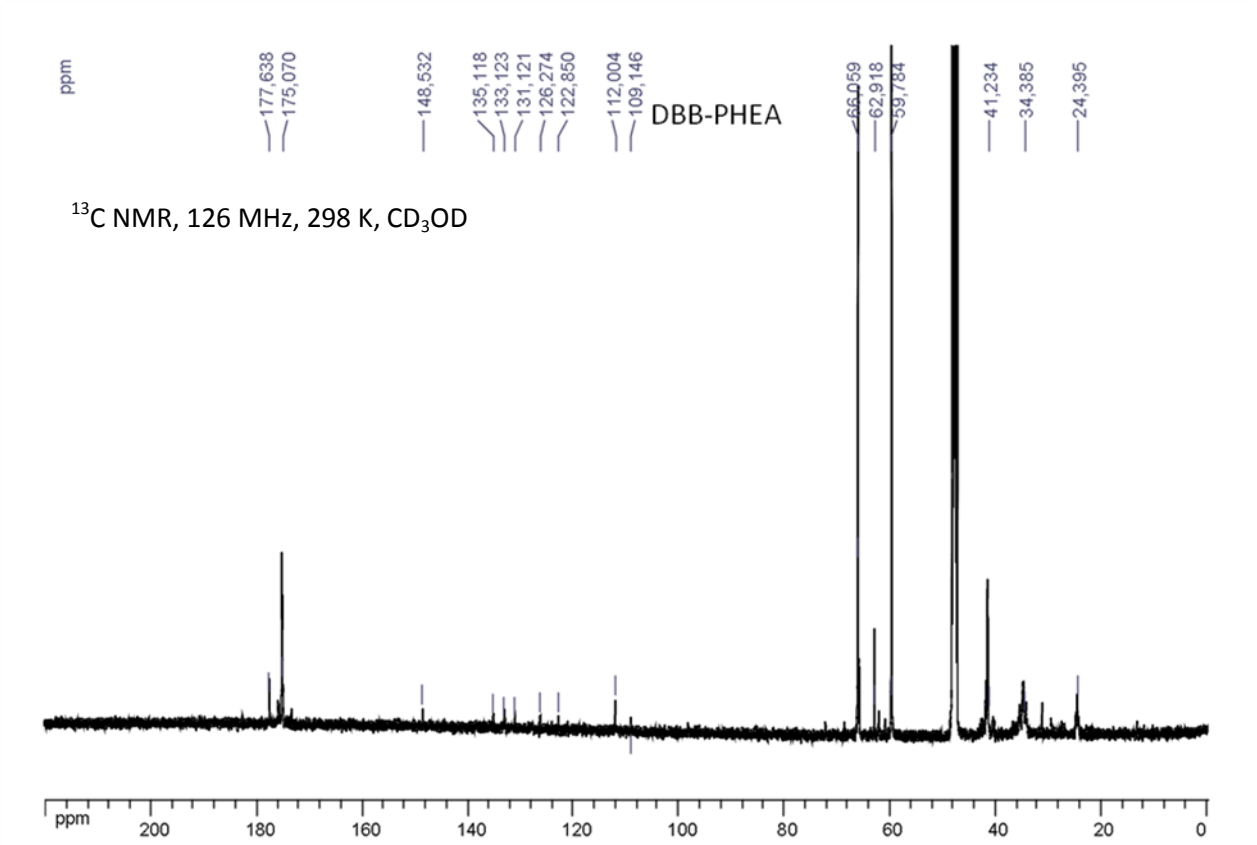




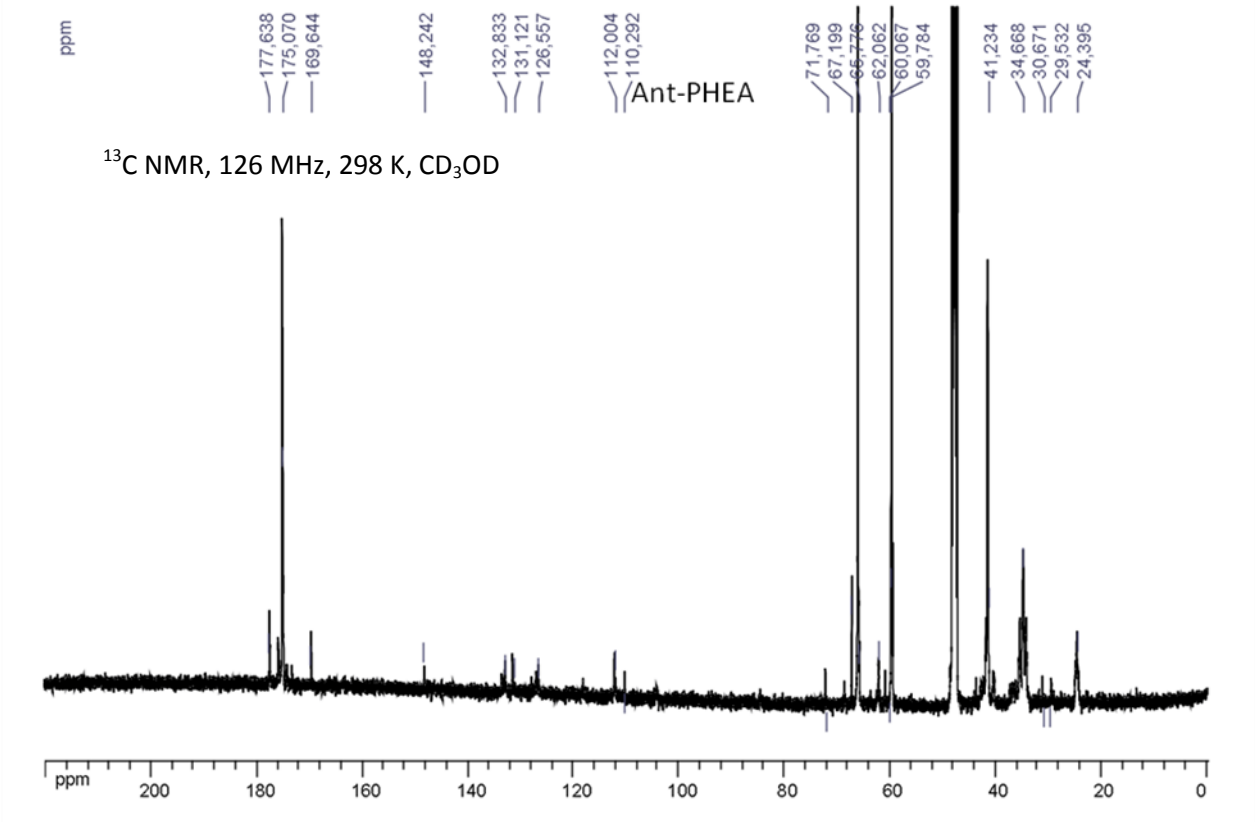
^{13}C NMR (J-Mod), 50MHz, 298 K, $CDCl_3$



^{13}C NMR (J-Mod), 50 MHz, 298 K, $CDCl_3$



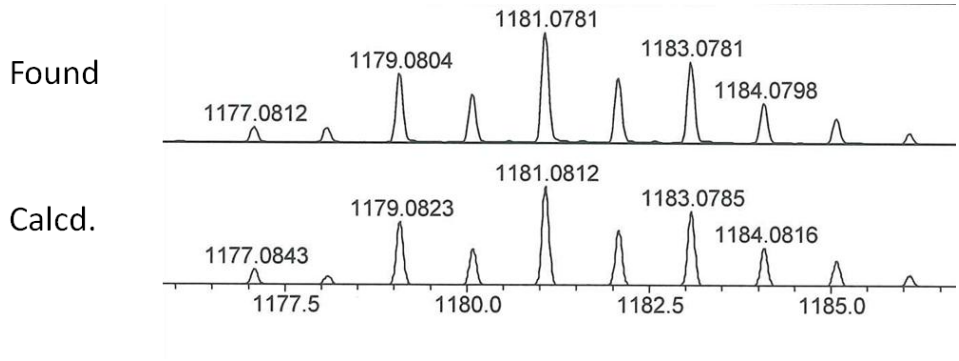
^{13}C NMR, 126 MHz, 298 K, CD_3OD



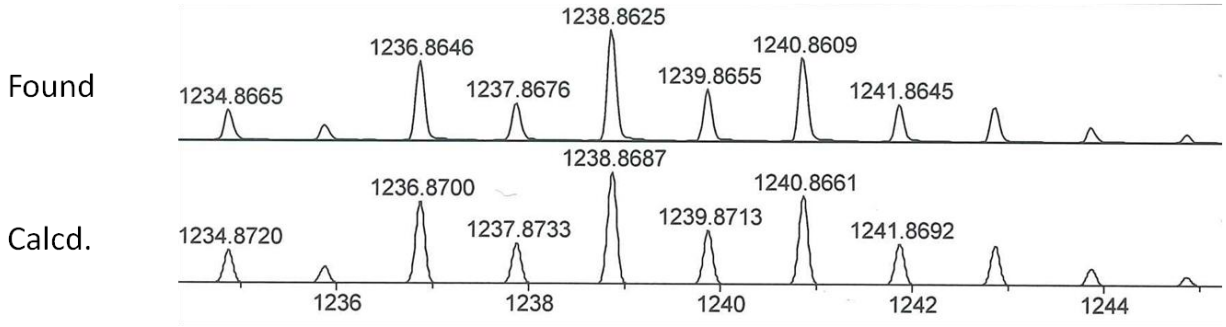
^{13}C NMR, 126 MHz, 298 K, CD_3OD

S2 HRMS spectra

Ant-In :

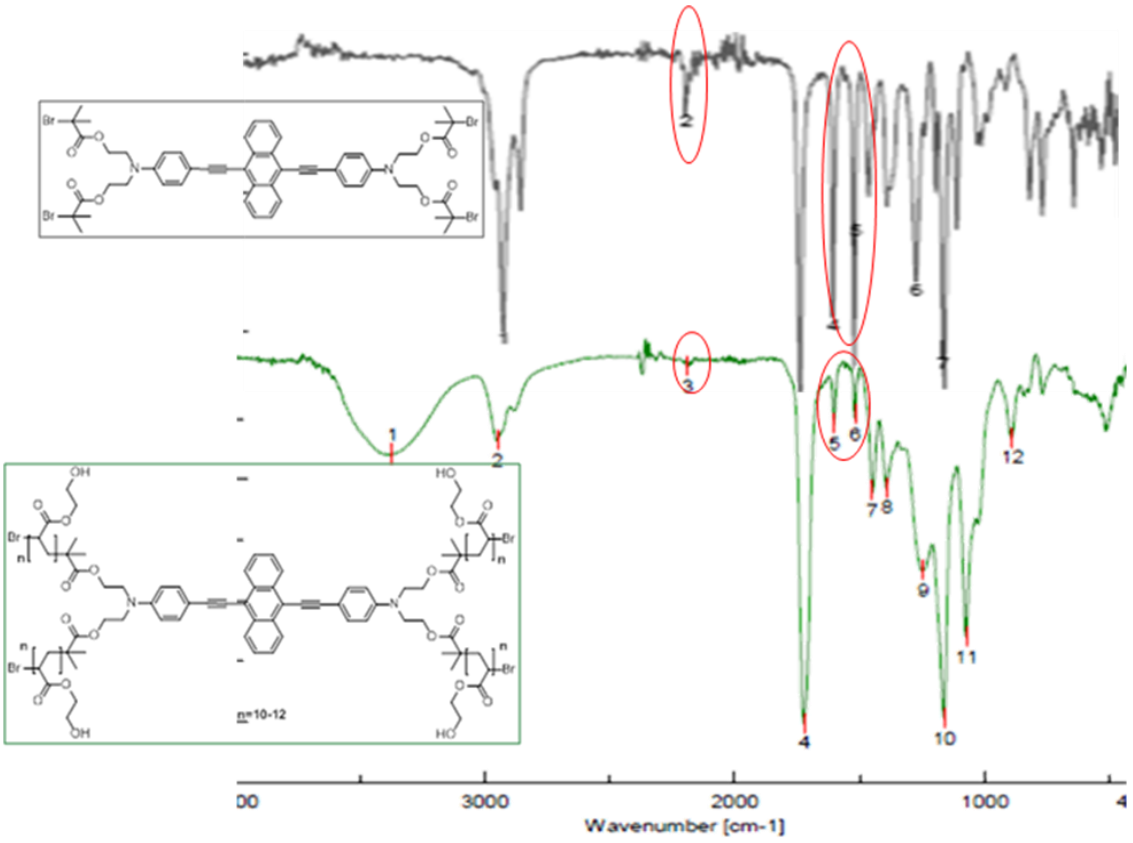


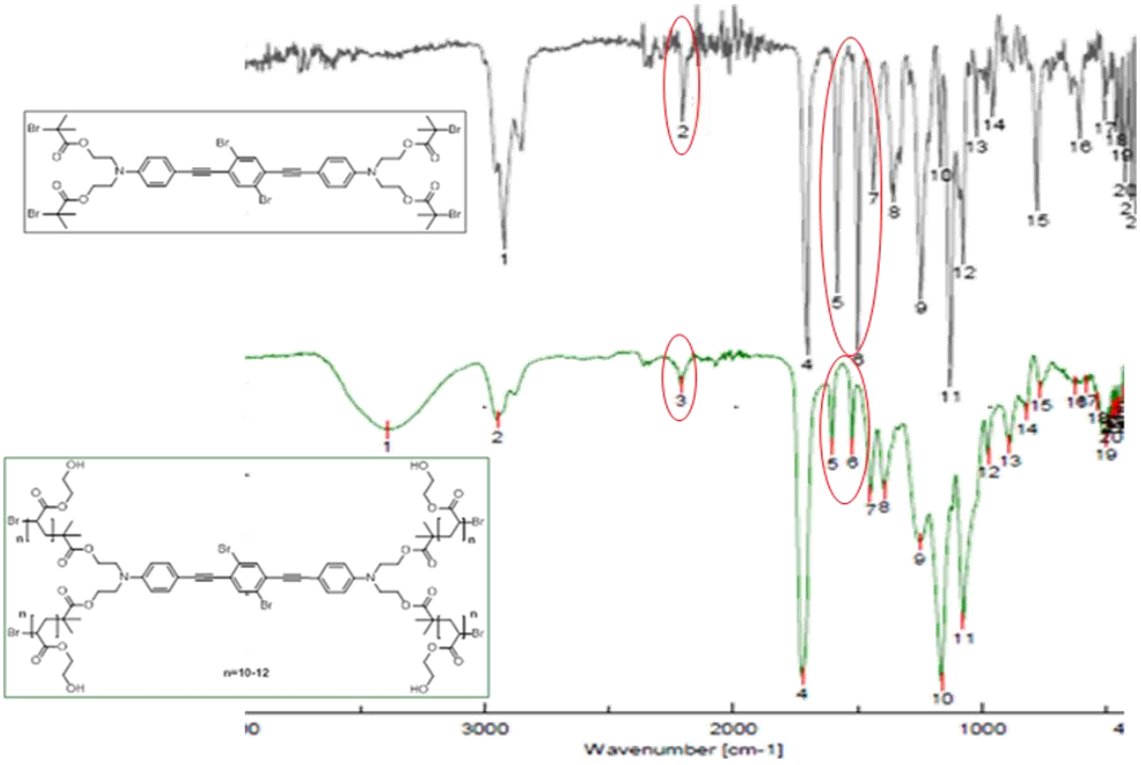
DBB-In :



S3 IR Spectra

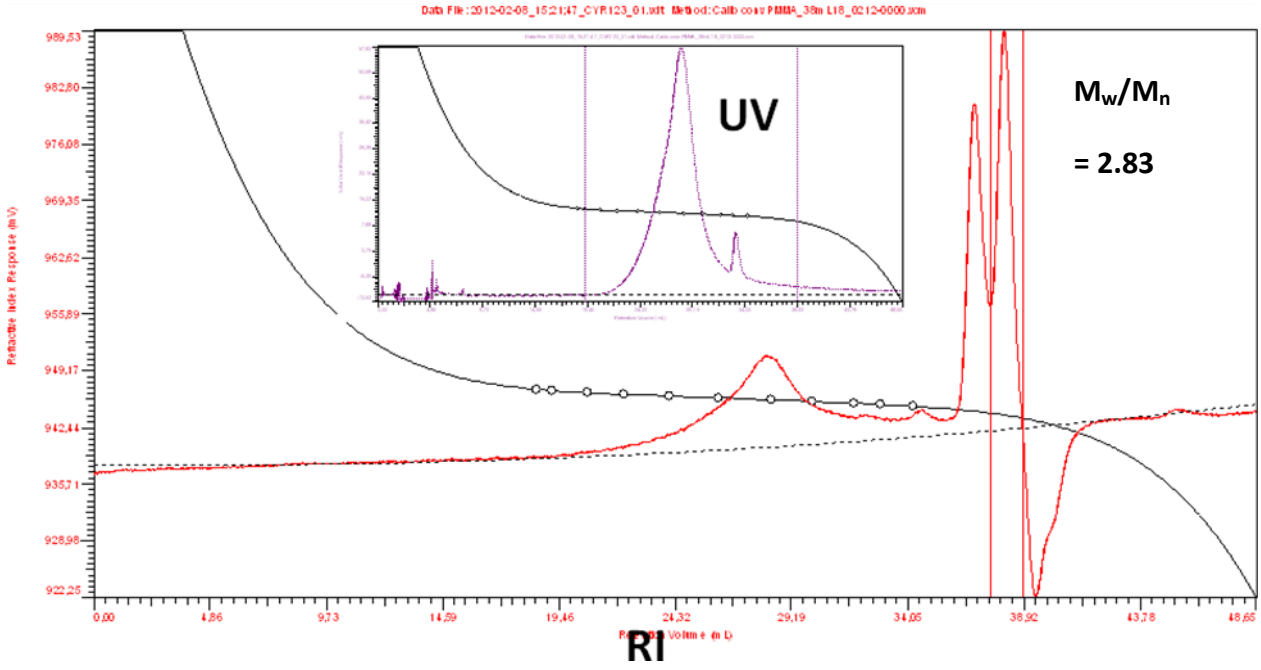
in red circle : chromophore peaks that distinctively appear in the polymer spectrum



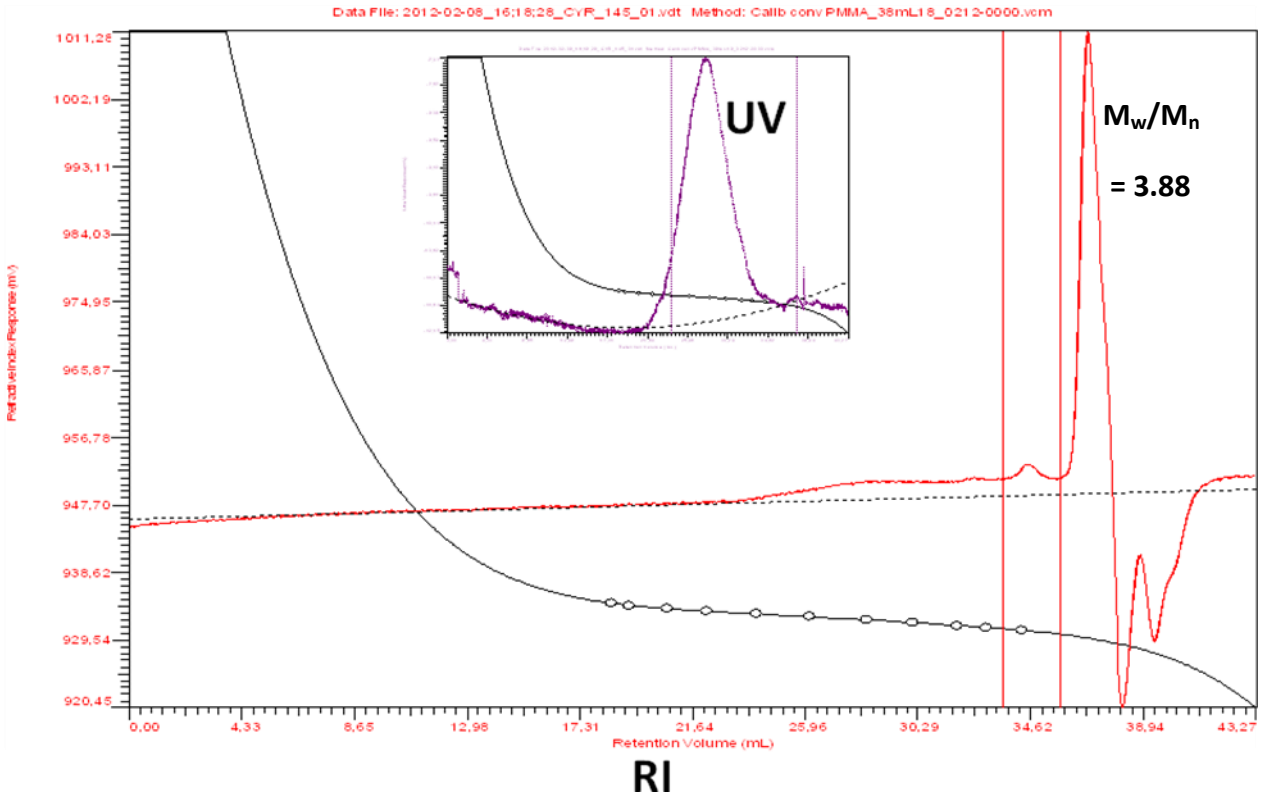


S4 GPC traces of both oligomeric nano-objects

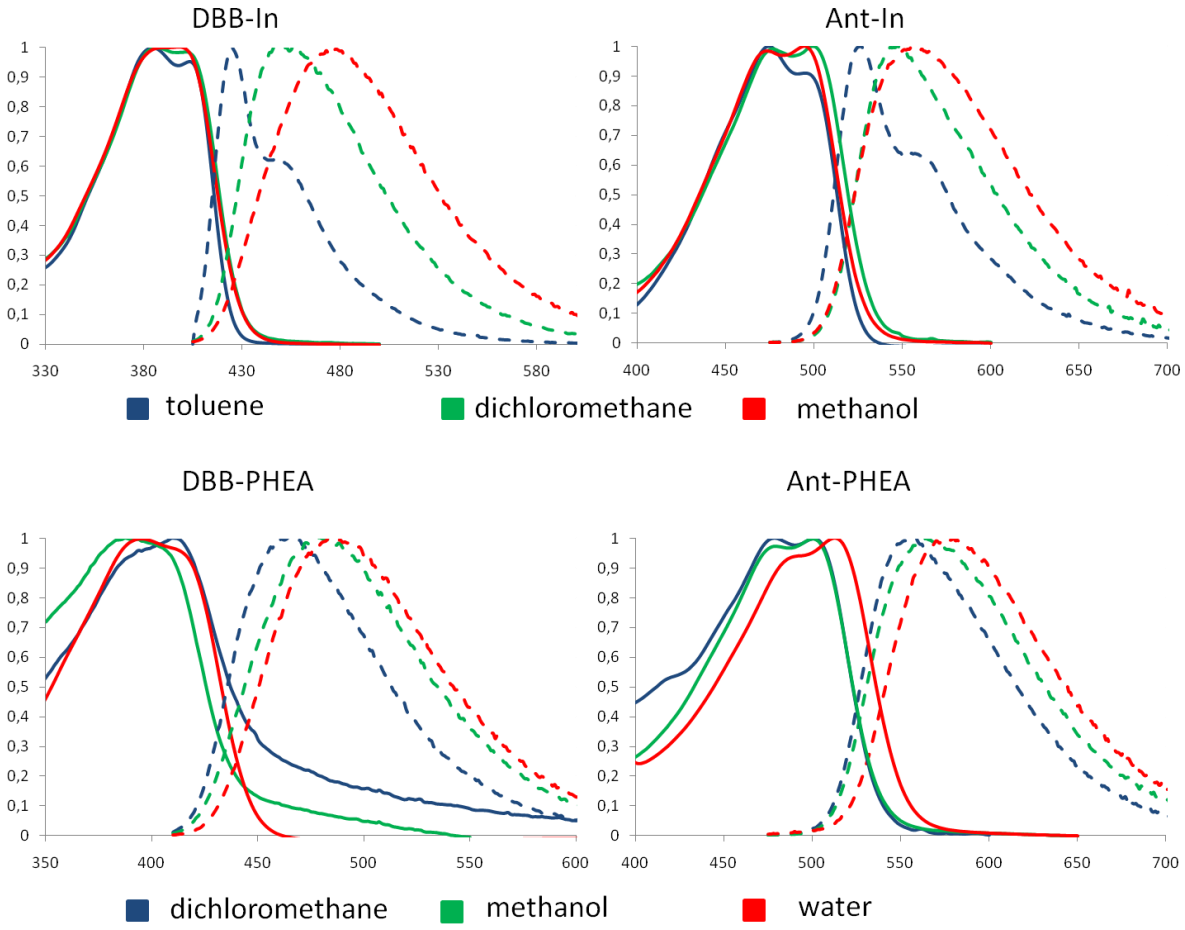
DBB-PHEA:



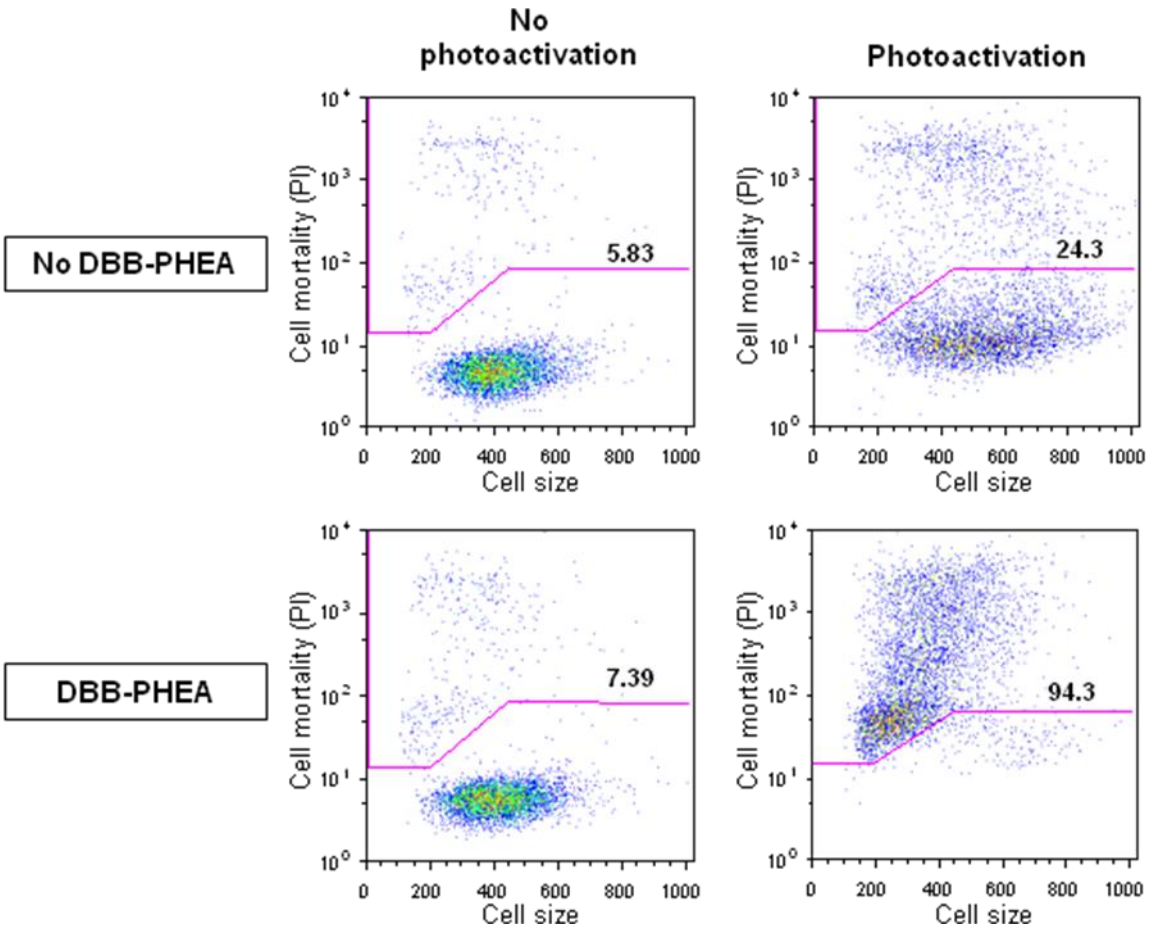
Ant-PHEA:



S5 UV-Vis solvatochromism : *absorption and emission spectra of all compounds in various solvents*



S6 Measurements of cell mortality by flow cytometry.



B16-F10 cells were incubated with or without DBB-PHEA for 24h and photoactivated or not by irradiation at 365nm (16J/cm^2). Cell mortality was analyzed 5 h later by flow cytometry using Propidium Iodide (PI) staining. Density dot plots display two parameters : fluorescence of PI (Y-axis) and cell size (X-axis). The color ranges from blue (low cell density) towards red (high cell density). This protocol allows to distinguish beetwen viable cells (excluding PI) and dead cells (stained with PI). Percentages of dead cells are indicated.