

# Supporting information

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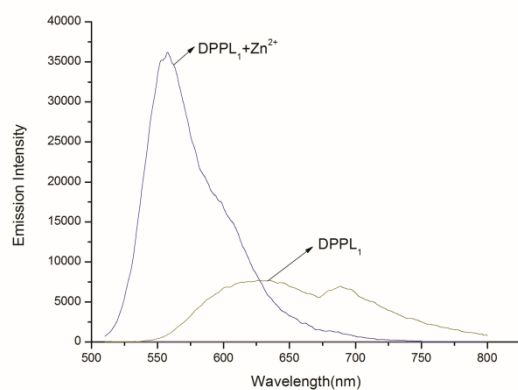


Fig. S1 The fluorescence spectra of DPPL<sub>1</sub>, DPPL<sub>1</sub> with Zn<sup>2+</sup> at higher concentration.

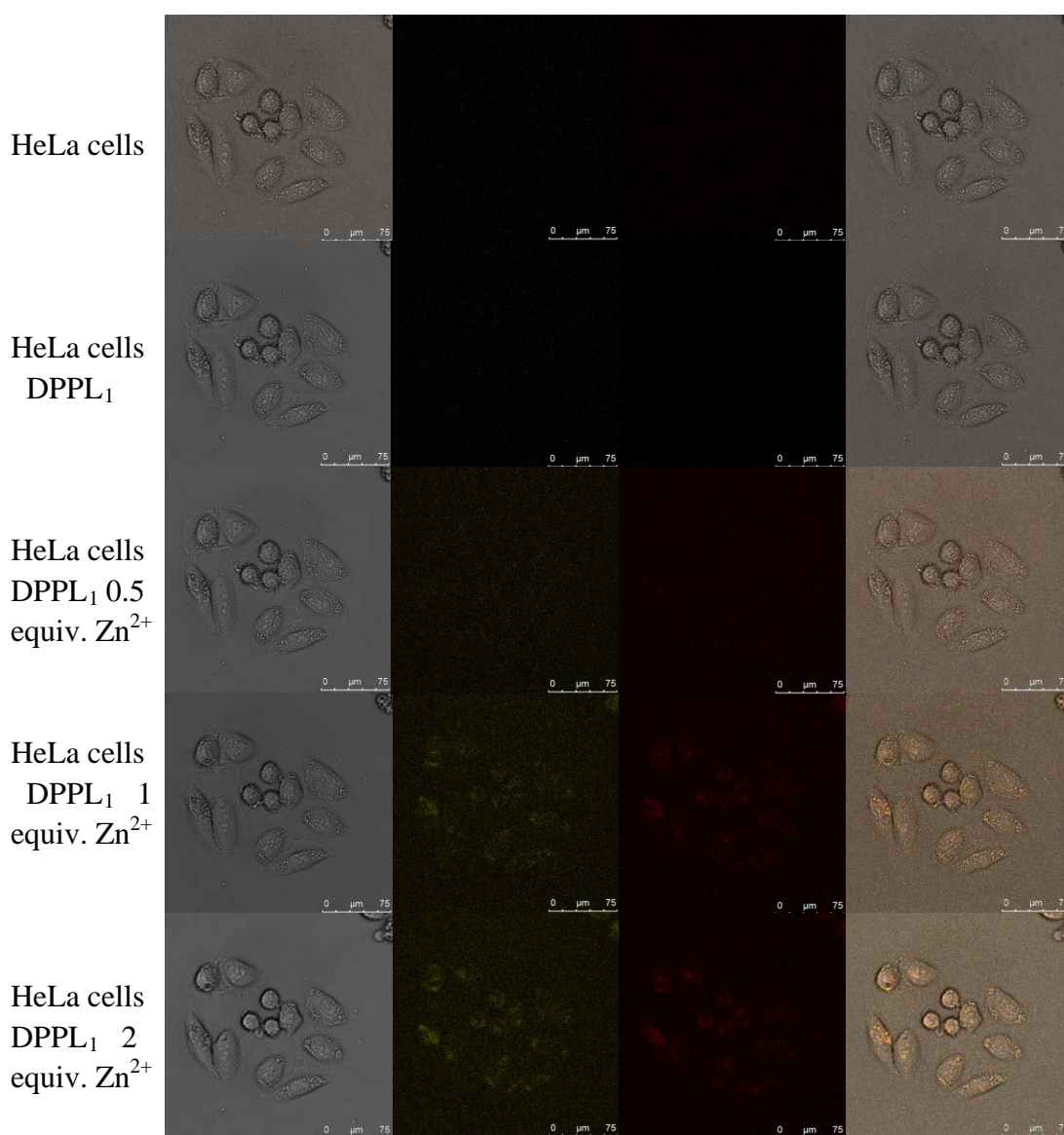


Fig. S2 The cell images as a function of Zn:DPPL ratio

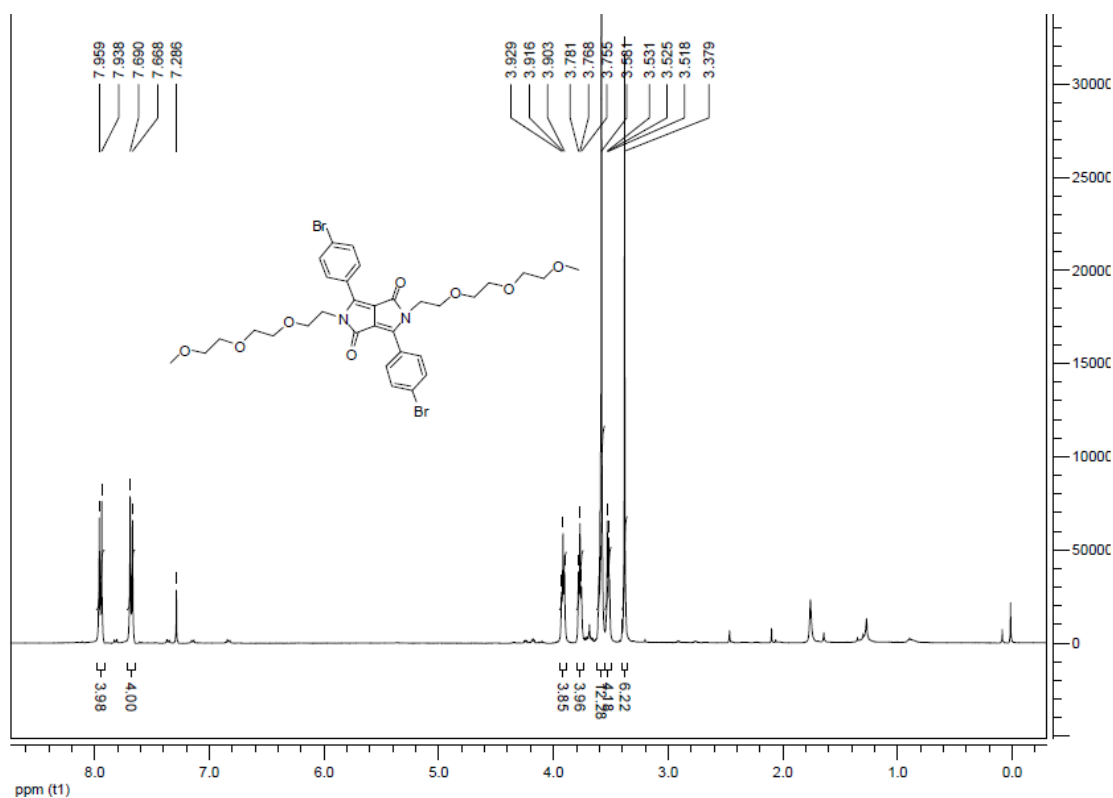


Fig.S3 <sup>1</sup>H NMR of compound 2.

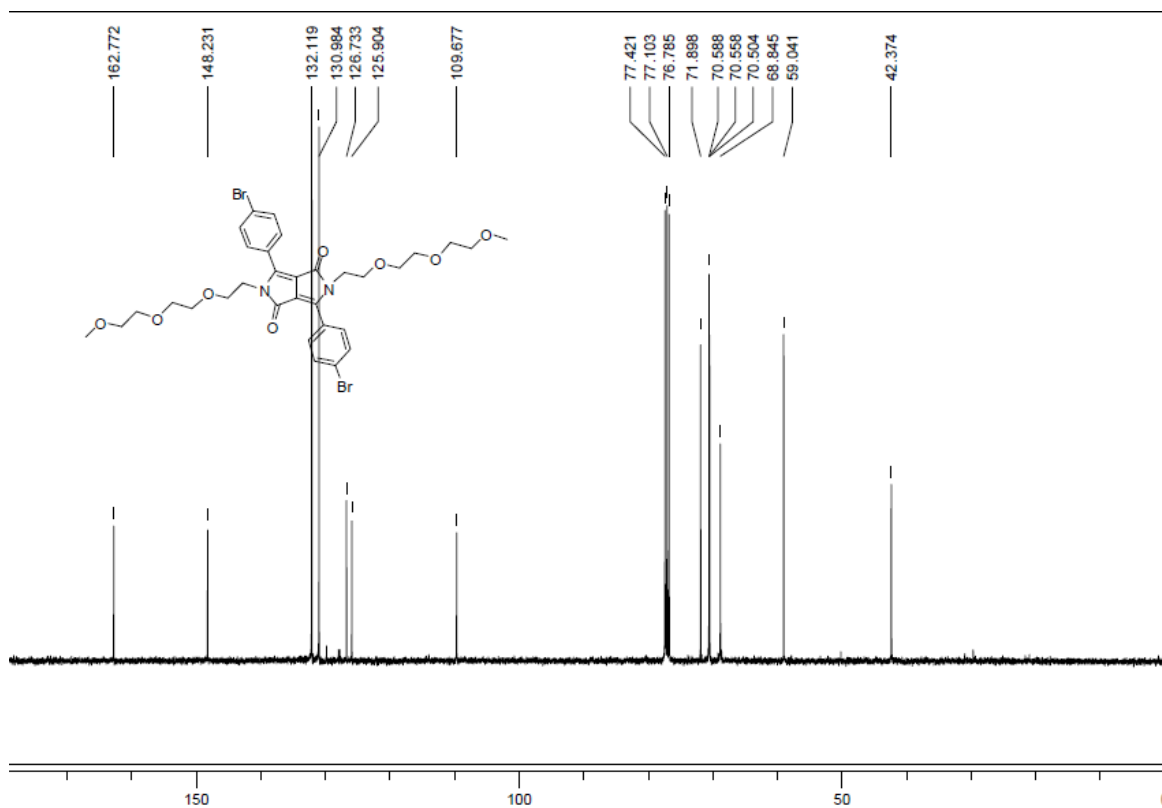


Fig.S4 <sup>13</sup>C NMR spectra of compound 2.

LM-WANG

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WLM-ZHT-2 13 (0.497) Cm (1:16)

1: TOF MS ES+

6.46e+003

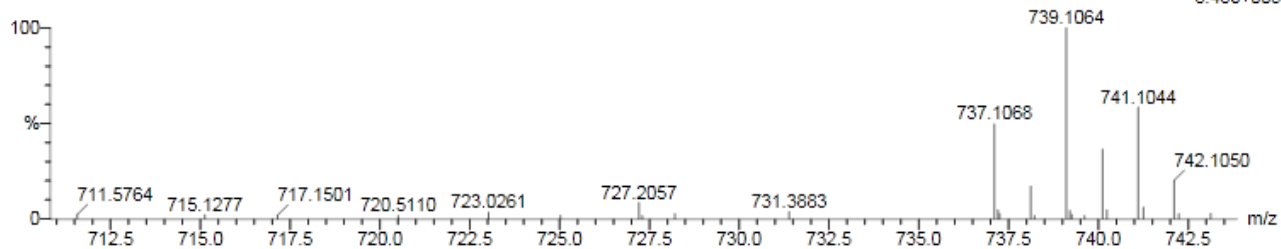


Fig.S5 HRMS of compound 2.

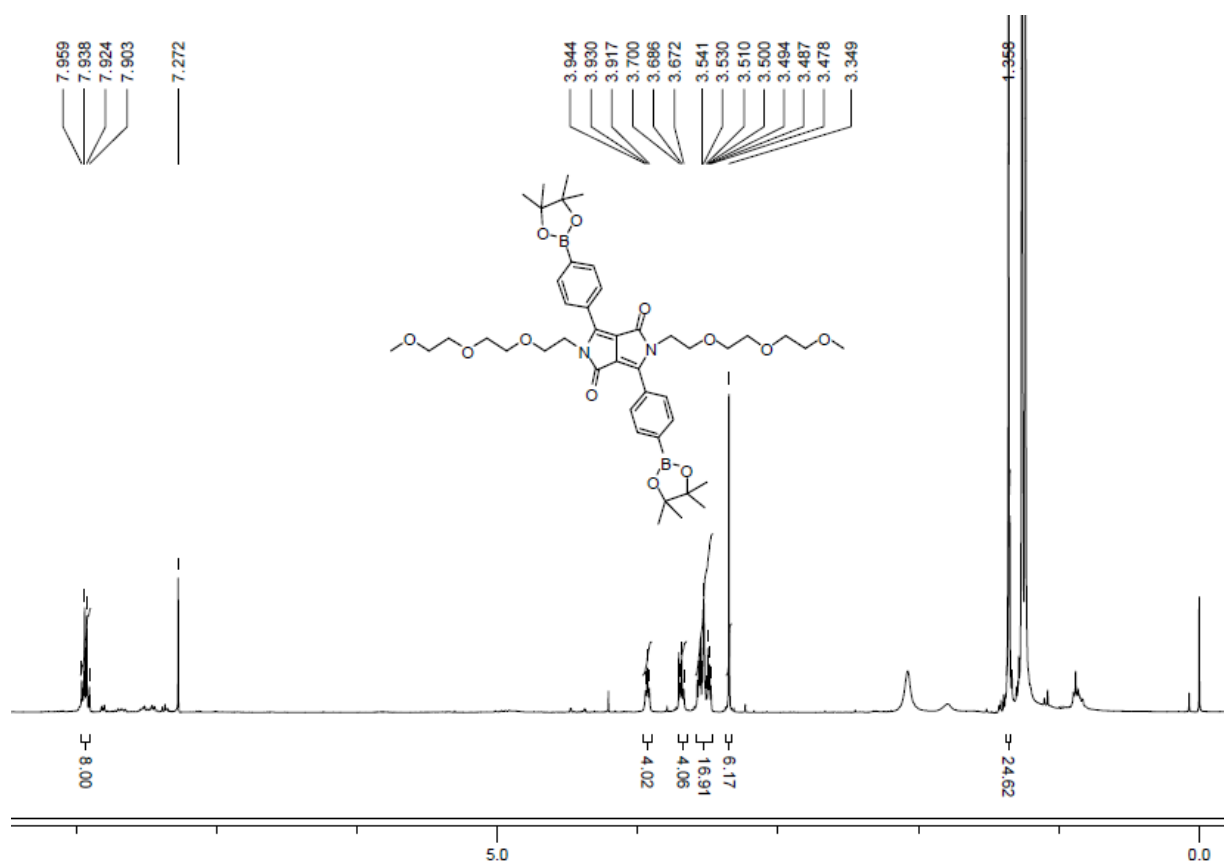


Fig.S6 <sup>1</sup>H NMR of compound 3.

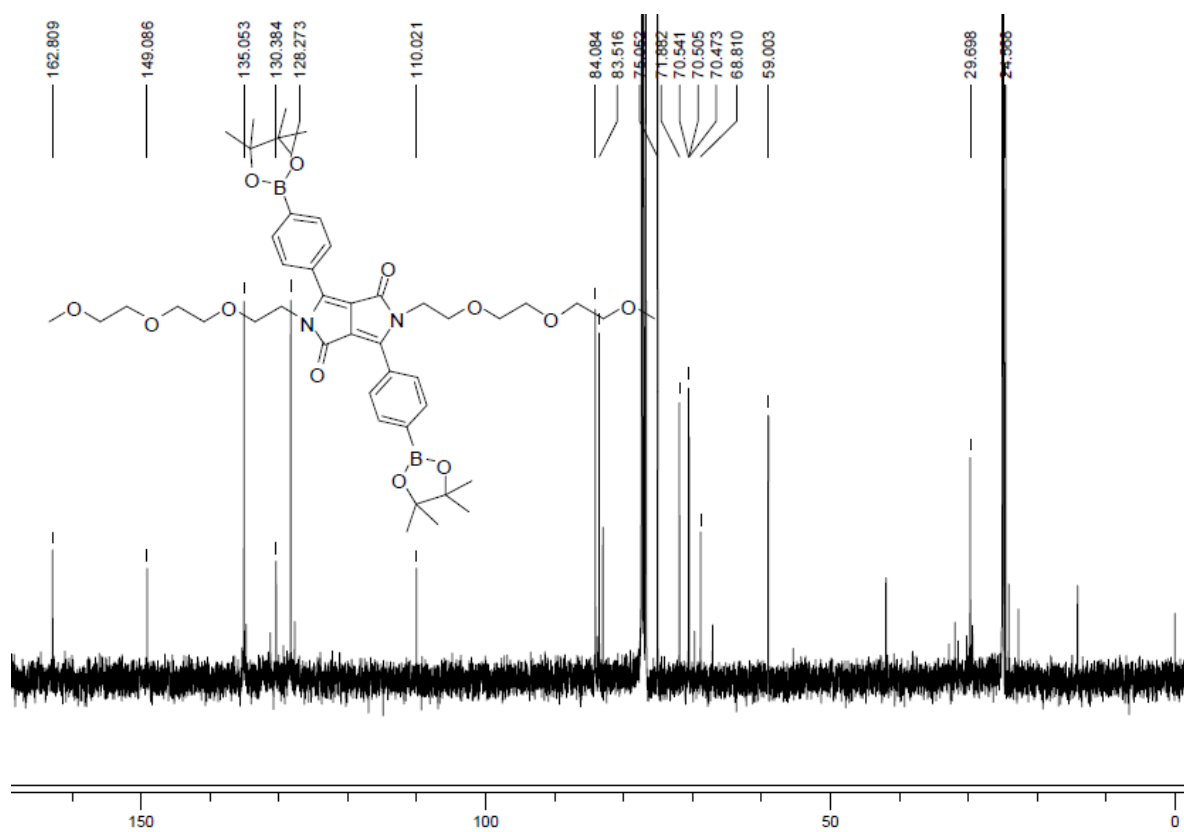


Fig.S7  $^{13}\text{C}$  NMR spectra of compound 3.

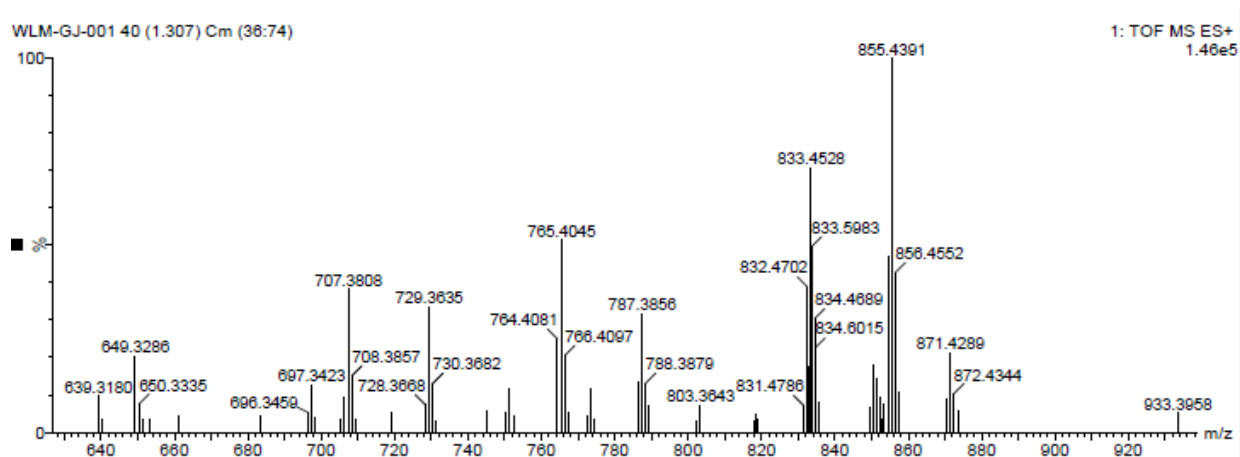


Fig.S8 HRMS of compound 3.

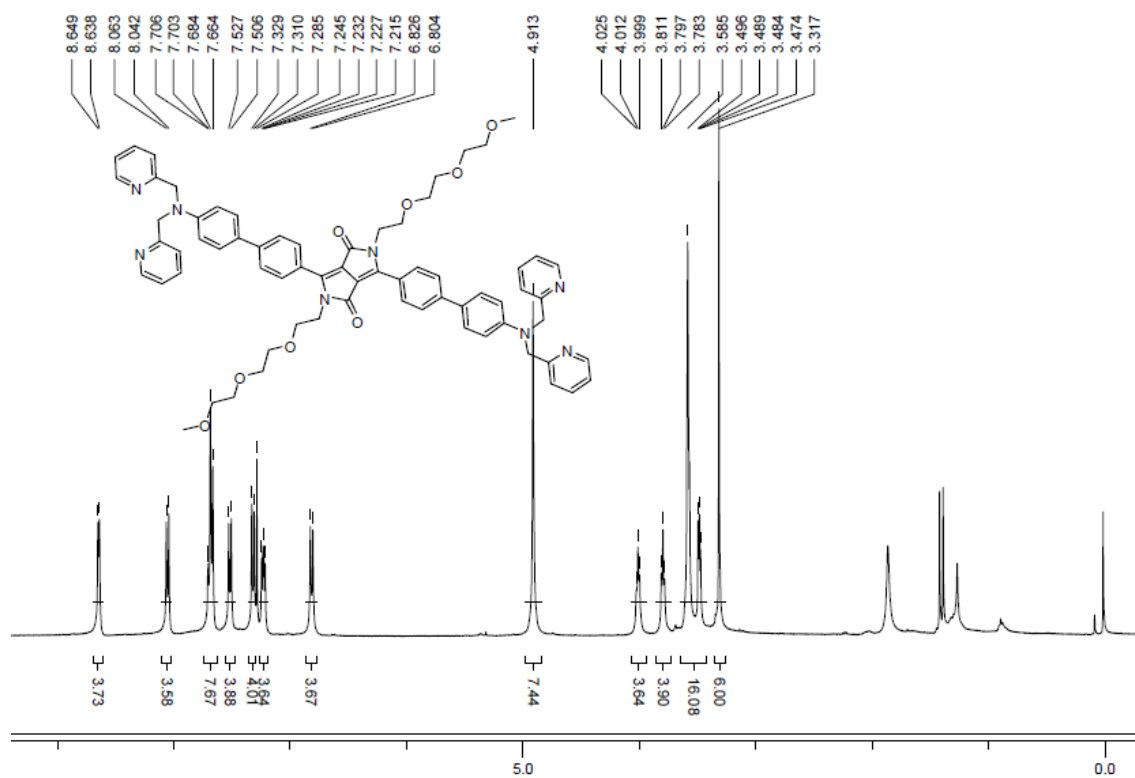


Fig.S9 <sup>1</sup>H NMR of compound DPPL<sub>1</sub>.

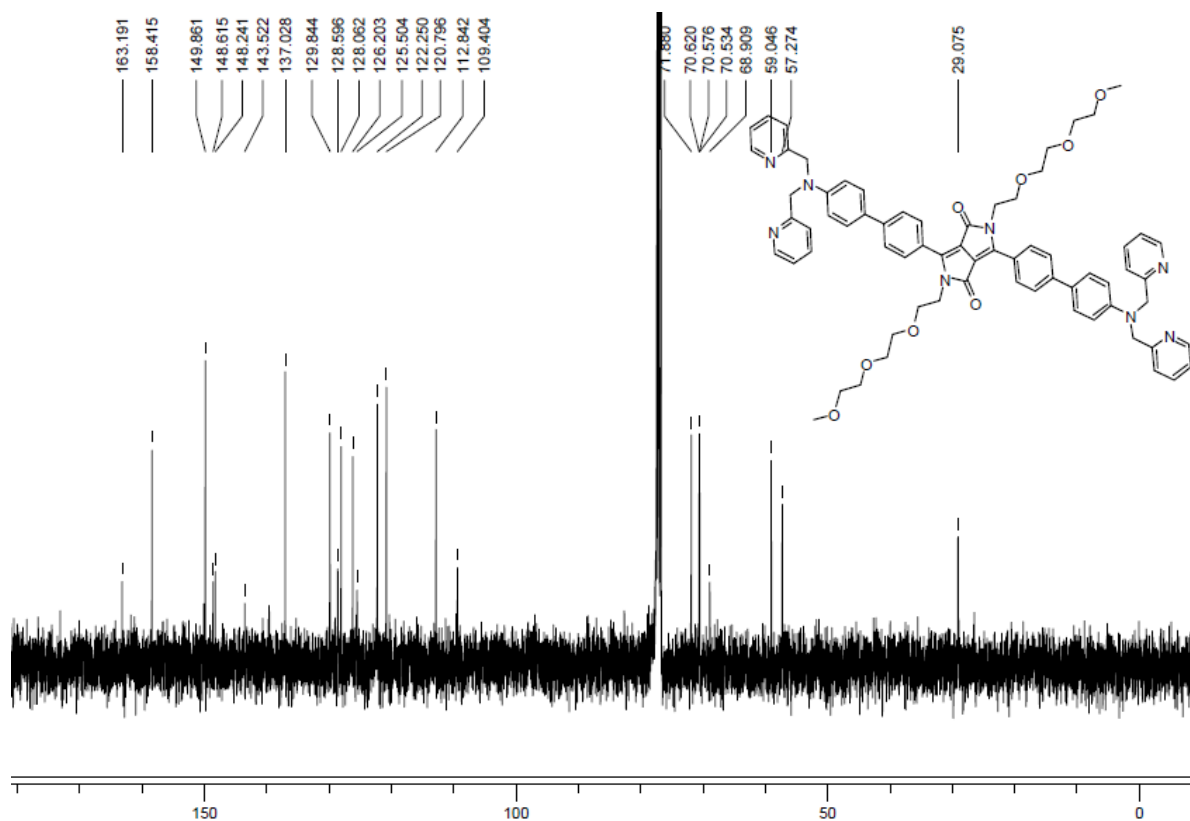


Fig.S10 <sup>13</sup>C NMR spectra of compound DPPL<sub>1</sub>.

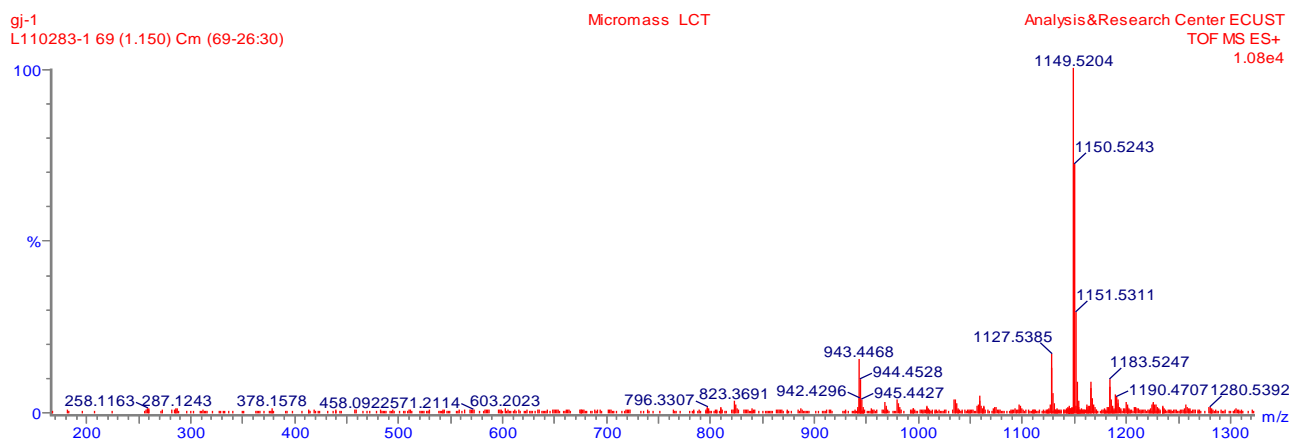


Fig.S11 HRMS of compound **DPPL<sub>1</sub>**.

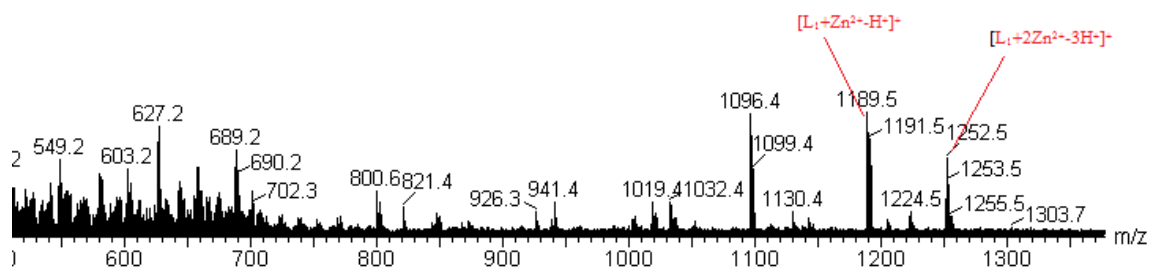


Fig. S12. The partial HRMS spectrum of **DPPL<sub>1</sub>** in the presence of  $Zn(NO_3)_2$ .