

Supplementary Information

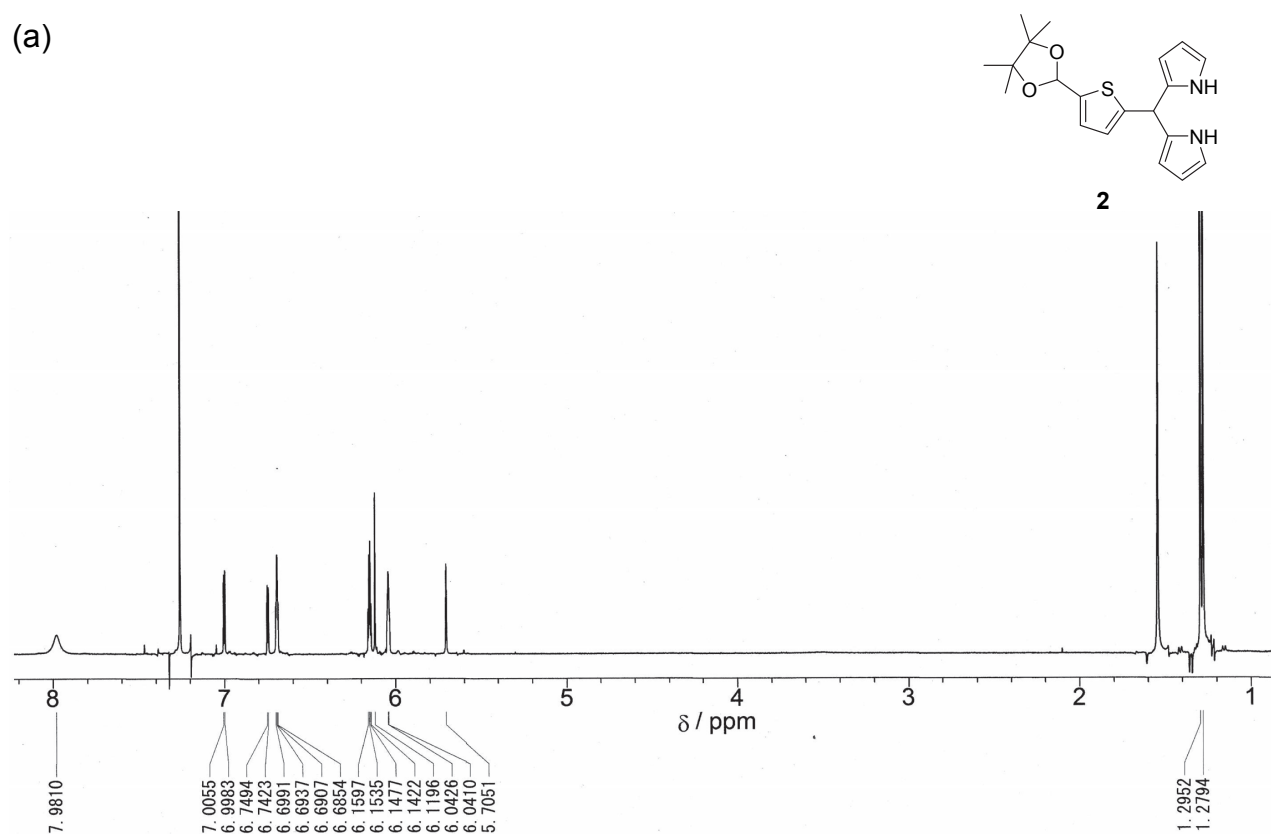
Synthesis, optical and electrochemical properties, and photovoltaic performance of panchromatic and near-infrared (D)₂- π -A type BODIPY dye with pyridyl group or cyanoacrylic acid

Yousuke Ooyama,* Masahiro Kanda, Toshiaki Enoki, Yohei Adachi and Joji Ohshita*

*Department of Applied Chemistry, Graduate School of Engineering, Hiroshima University,
Higashi-Hiroshima, 739-8527, Japan.*

Fax: +81 824 24 5494; Tel: +81 824 24 7689; E-mail:yooyama@hiroshima-u.ac.jp

(a)



(b)

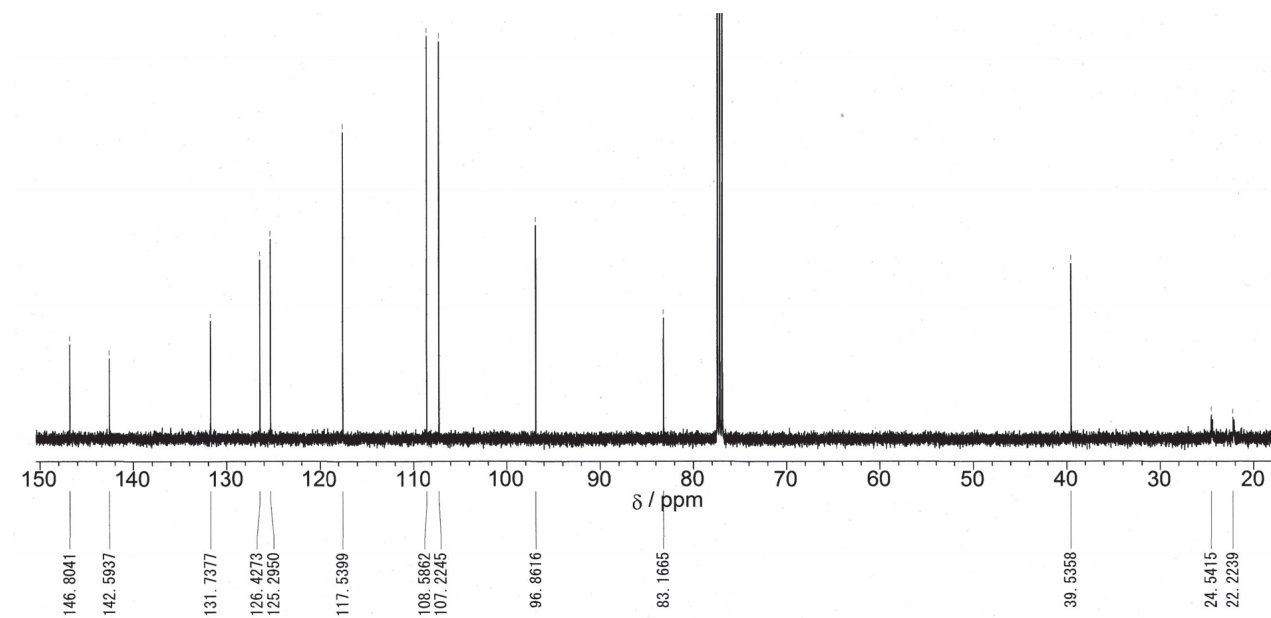
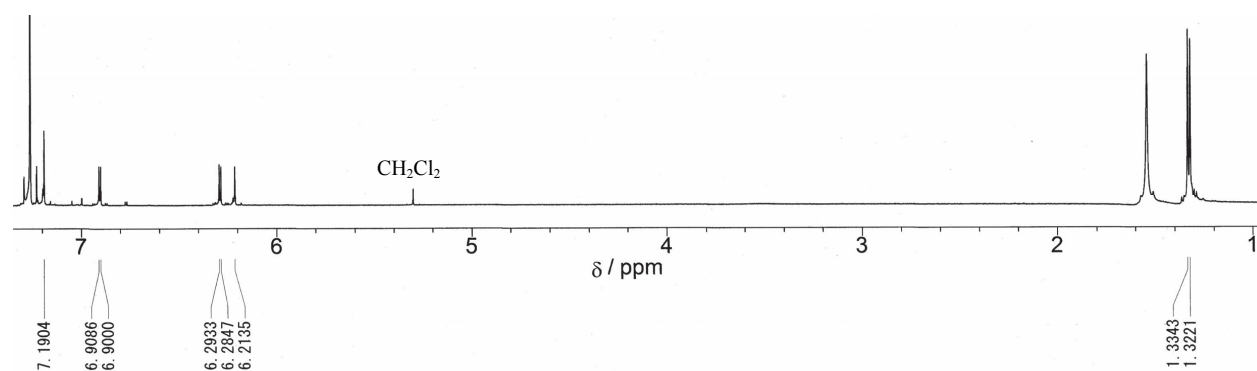
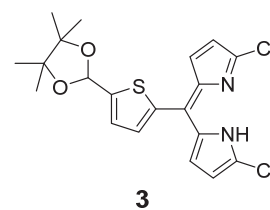


Fig. S1 (a) ^1H NMR (500 MHz) and (b) ^{13}C NMR (125 MHz) of **2** in CDCl_3 .

(a)



(b)

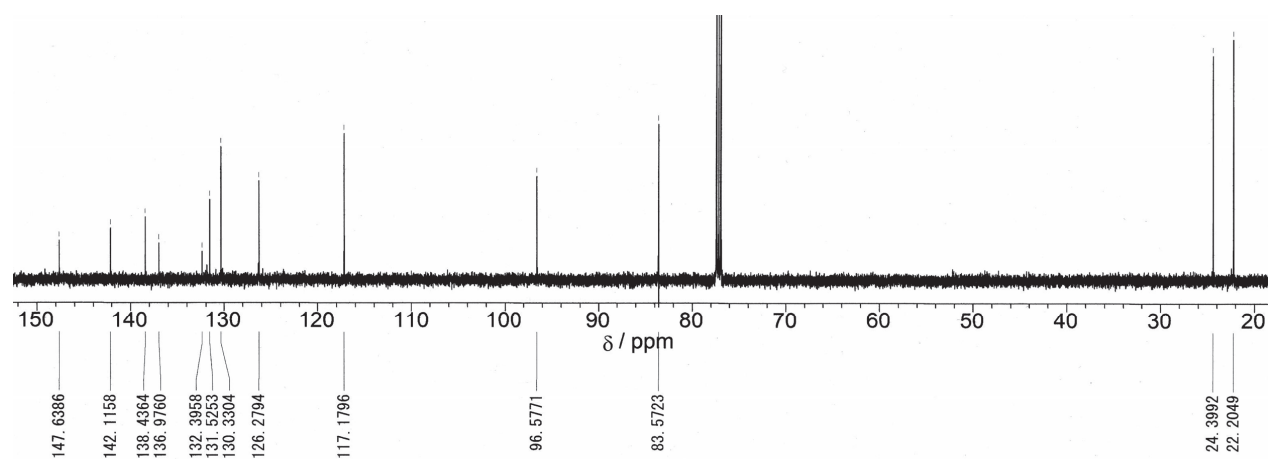


Fig. S2 (a) ^1H NMR (500 MHz) and (b) ^{13}C NMR (125 MHz) of **3** in CDCl_3 .

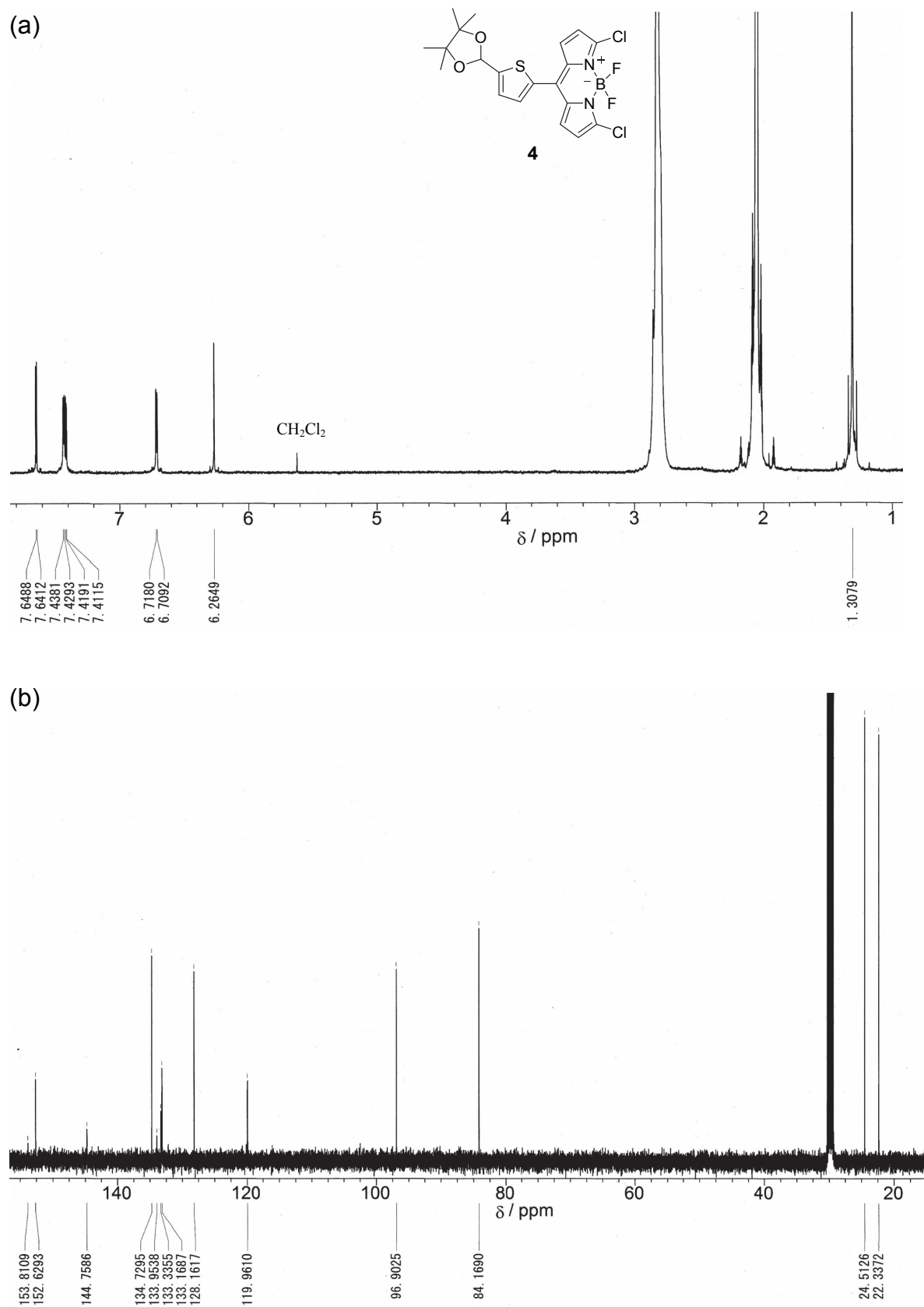
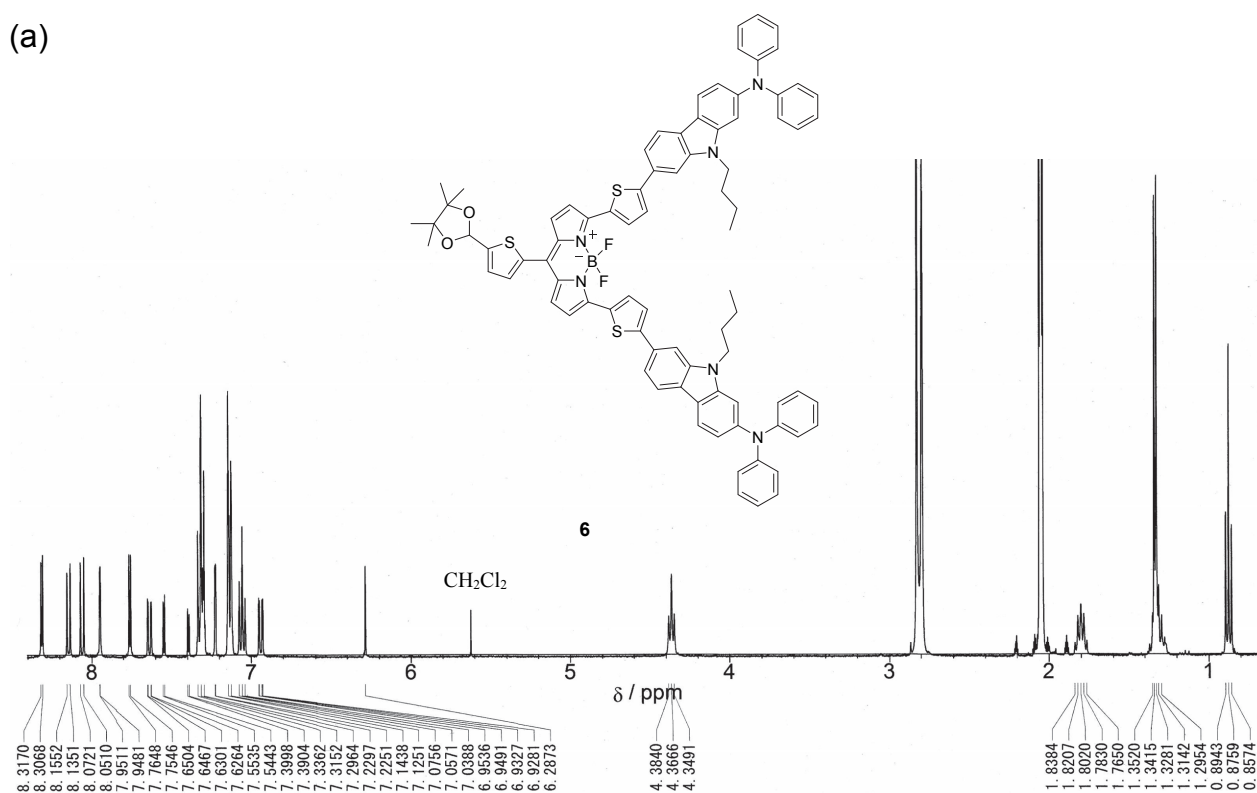


Fig. S3 (a) ¹H NMR (500 MHz) and (b) ¹³C NMR (125 MHz) of **4** in acetone-d₆.

(a)



(b)

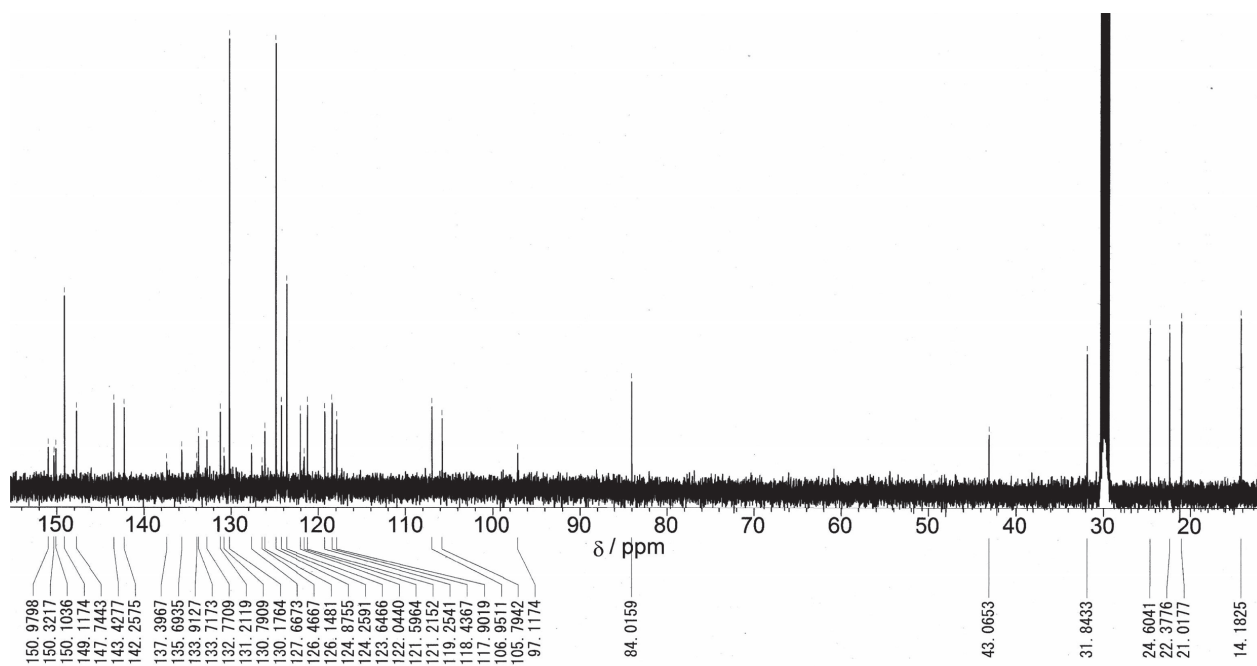


Fig. S4 (a) ^1H NMR (400 MHz) and (b) ^{13}C NMR (125 MHz) of **6** in acetone- d_6 .

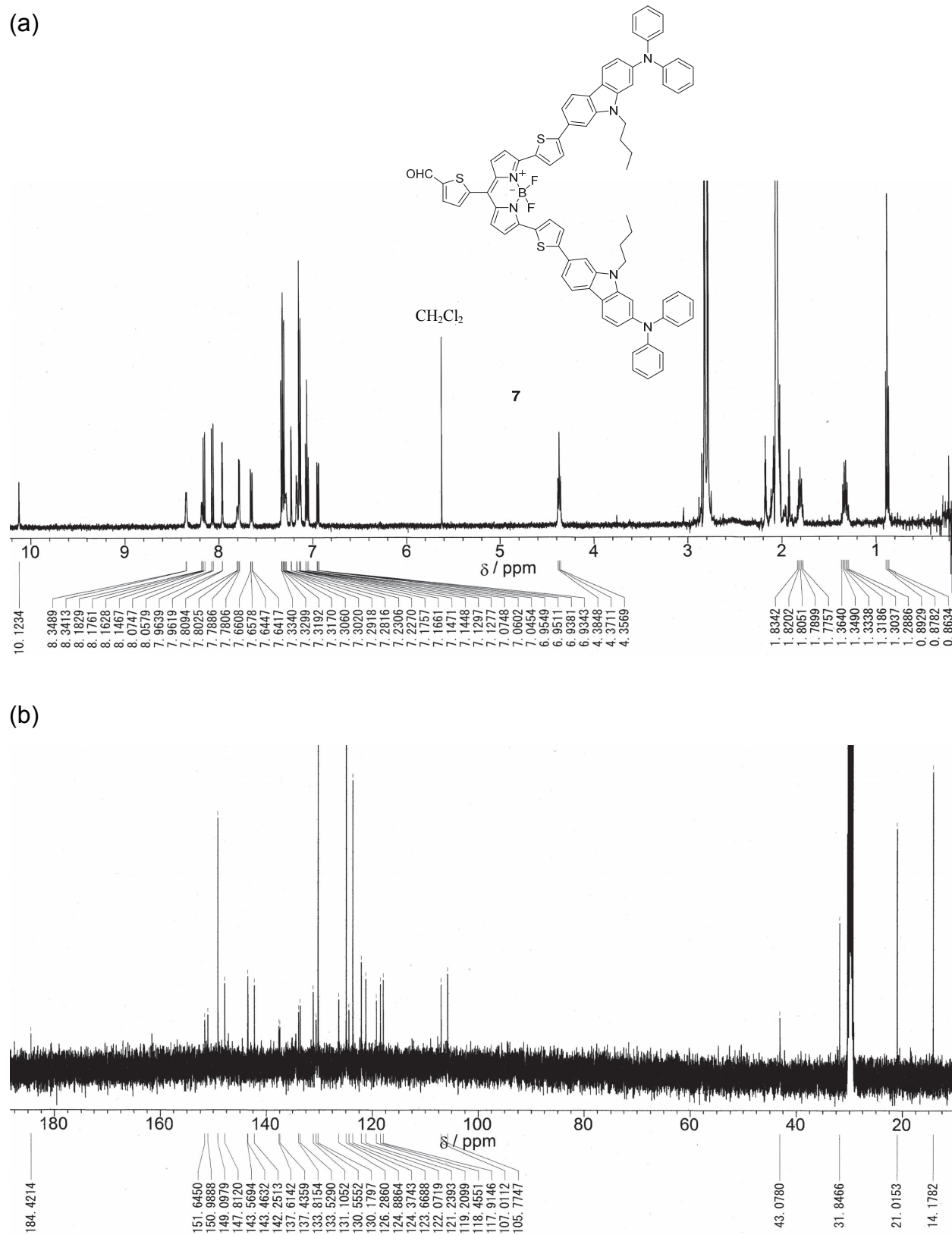
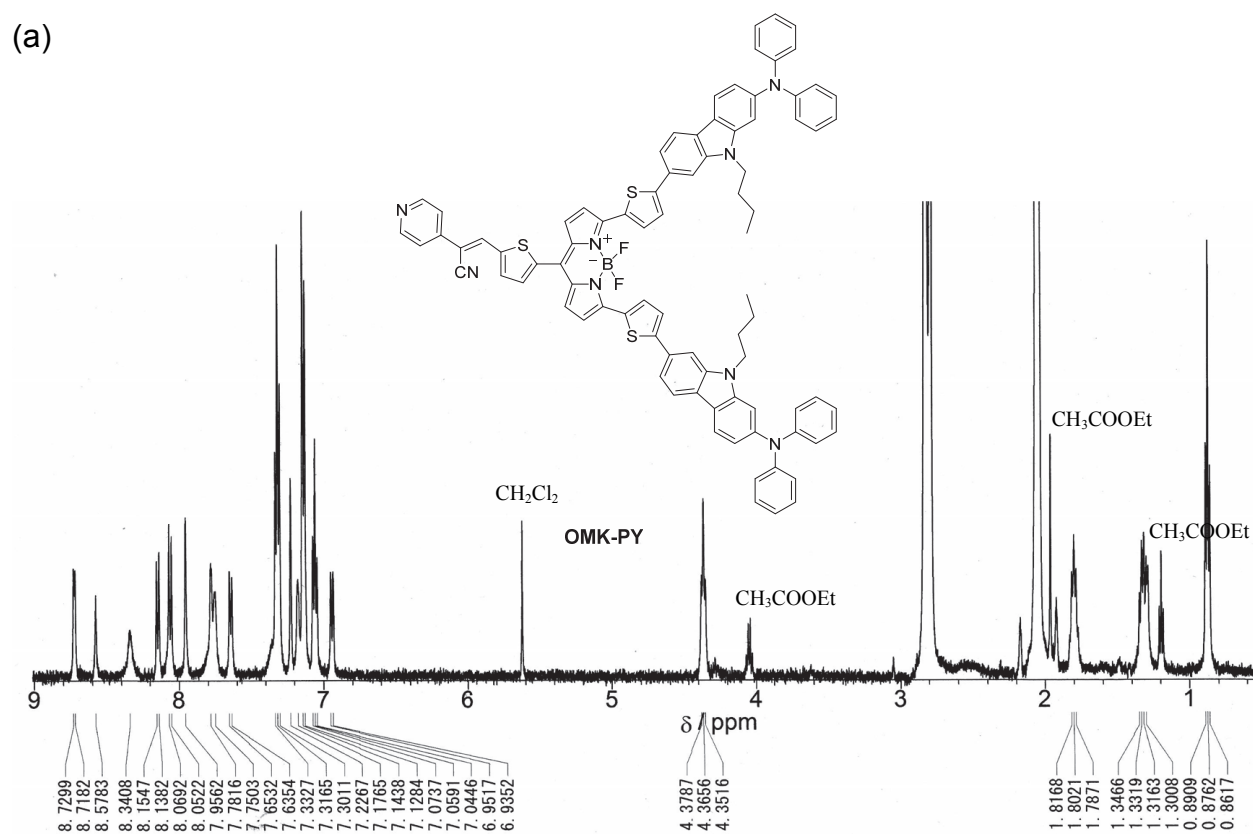


Fig. S5 (a) ¹H NMR (500 MHz) and (b) ¹³C NMR (125 MHz) of **7** in acetone-d₆.

(a)



(b)

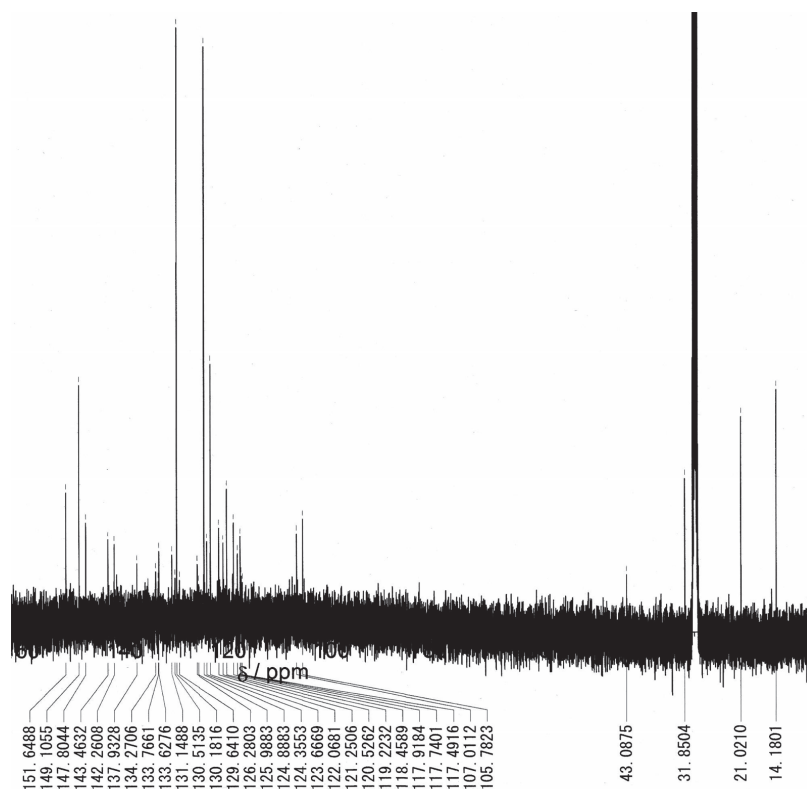


Fig. S6 (a) ^1H HMR (500 MHz) and (b) ^{13}C NMR (125 MHz) of OMK-PY in acetone- d_6 .

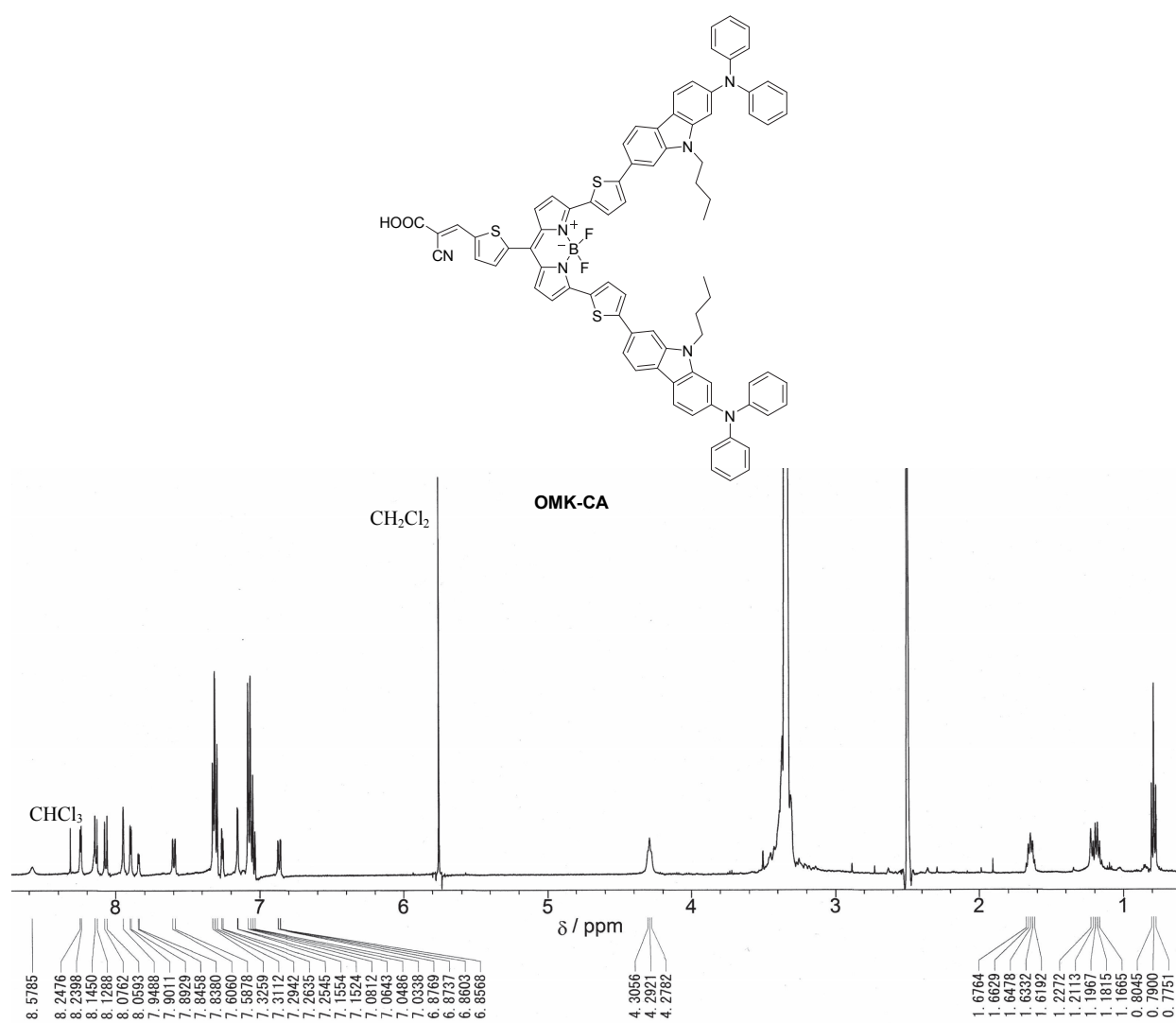


Fig. S7 ^1H HMR (500 MHz) of **OMK-CA** in DMSO-d_6 .