

Supporting Information (SI)

Robust blue hosts containing indene-substituted anthracene chromophores for highly efficient organic light-emitting diodes

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Experimental section:

The CV curves of compounds DMIP-1-NA and DMIP-2-NA:

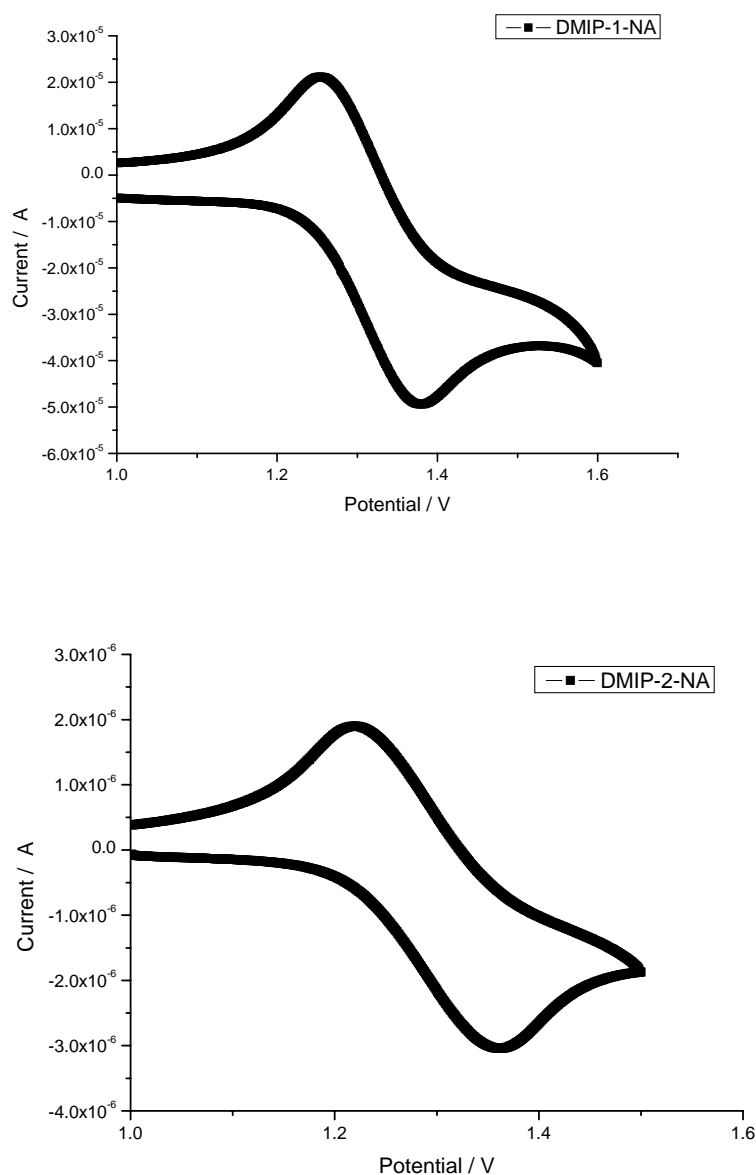


Fig. 1. CV traces of **DMIPNA** (1×10^{-3} M) in CH_2Cl_2 (0.1 M Bu_4NPF_6). Working electrode: platinum disk, diameter 1 mm; sweep rate 100 mV s^{-1} . The scanning potential window was 1.0–1.6 V and back to 1.0 V.

The DSC and TGA curves of compounds DMIP-1-NA and DMIP-2-NA:

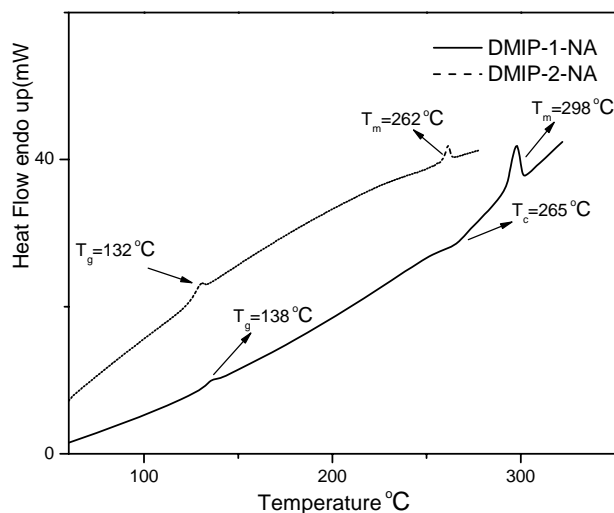


Fig. 2. The DSC spectra (differential scanning calorimetry) of the compound **DMIP-1-NA** and **DMIP-2-NA**. (10 mg sample was added to the pan, then it is heated up to 300 °C or (350 °C) at 20 °C/min and go through a quick cooling at 40 °C/min by the ice-bath, then scan it and collect the data).

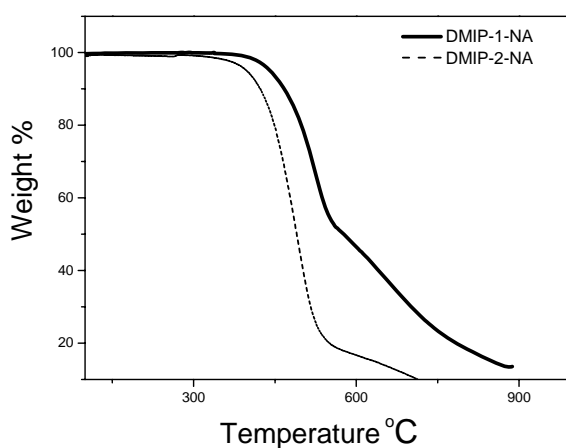
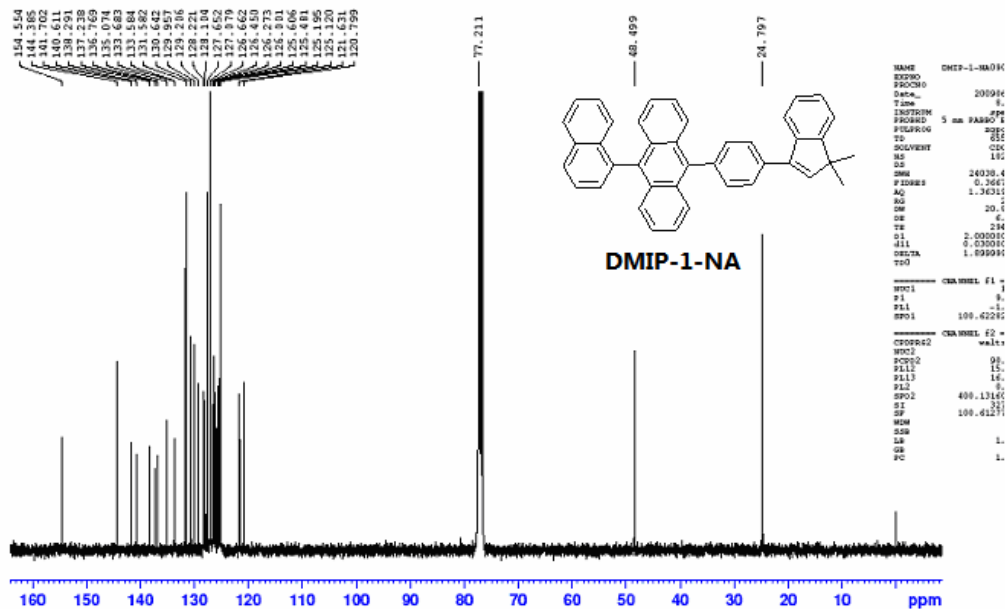
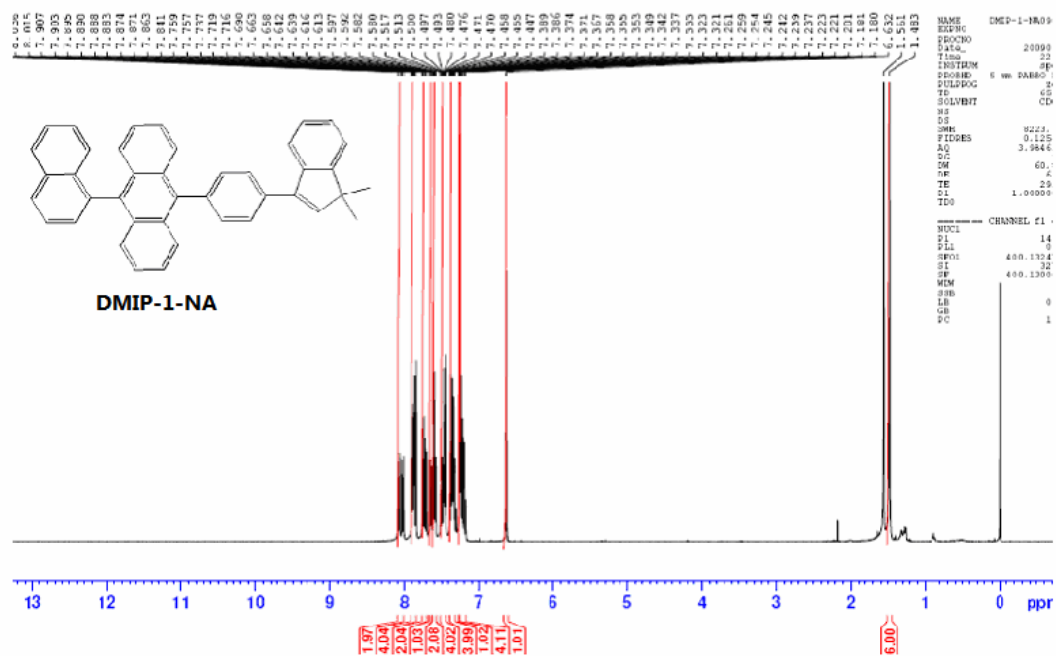
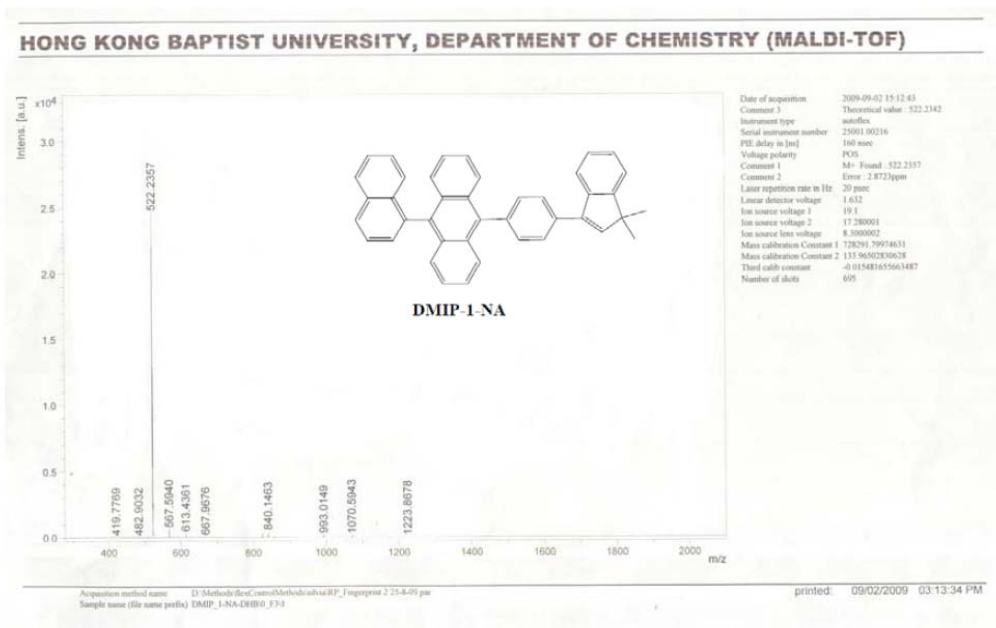
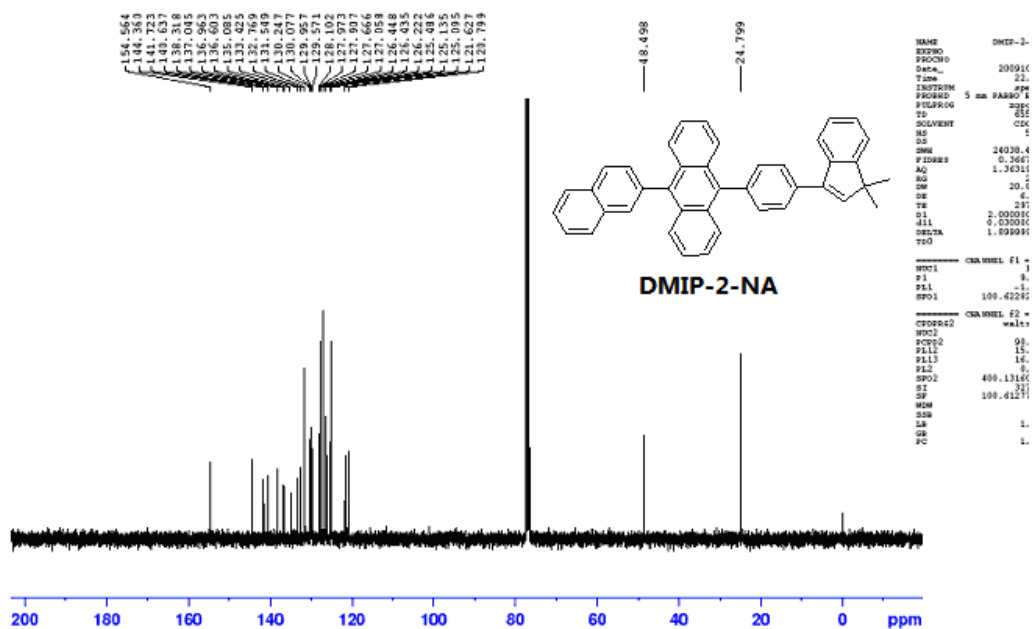
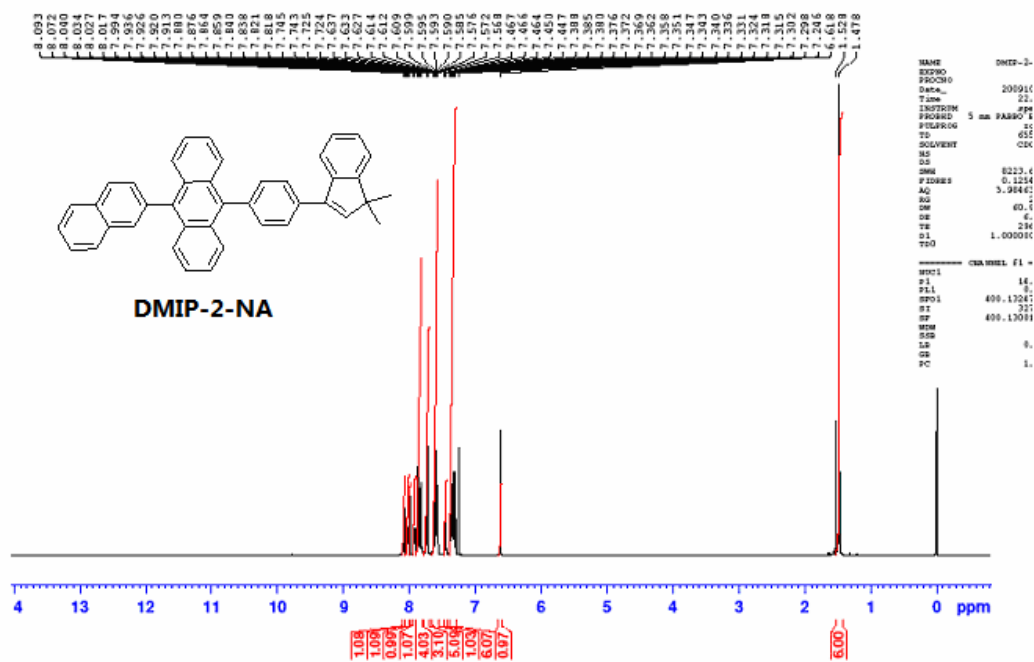


Fig. 3 The TGA spectra (thermogravimetric analysis) of the compound **DMIP-1-NA** and **DMIP-2-NA**. (The two samples were heated up to 900 °C at a heating rate of 20 °C/min).

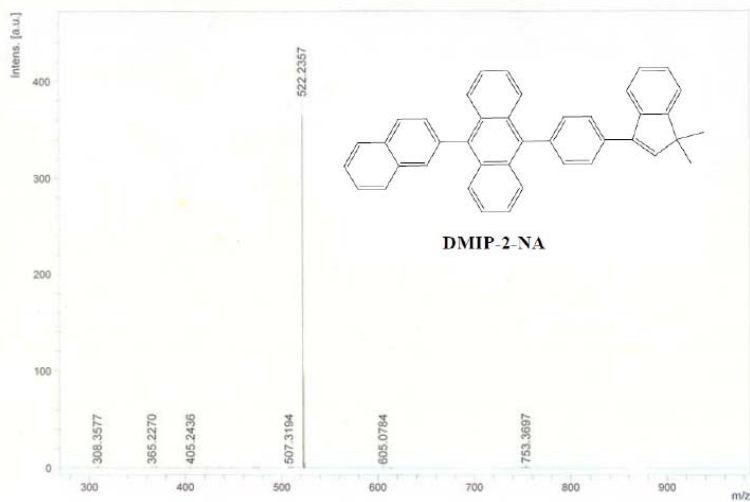
^1H NMR, ^{13}C NMR and High Resolution Mass Spectra of DMIP-1-NA and DMIP-2-NA:







HONG KONG BAPTIST UNIVERSITY, DEPARTMENT OF CHEMISTRY (MALDI-TOF)



Date of acquisition 2009-09-29 16:17:01
Comment 1 Theoretical value: 522.2343
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Serial instrument number 25001.00216
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Voltage polarity POS
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Comment 2 Error: 2.8684 ppm
Linear repetition rate in Hz 20 ppm
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Ion source voltage 1 19.1
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Sample name (file name prefix) DMIP-2-NA_SAV0_A611

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