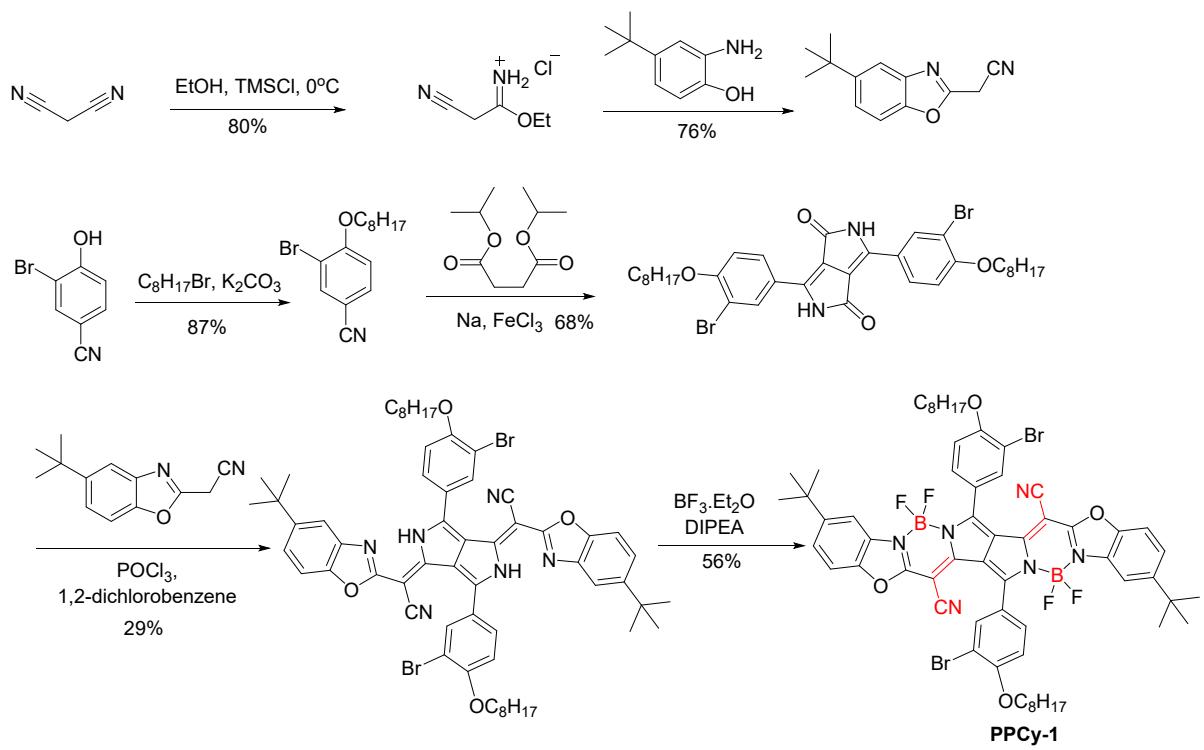


Portable smartphone platform utilizing dual-sensing signals for visual determination of semicarbazide in food samples

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Scheme S1 The synthetic route of PPCy-1.

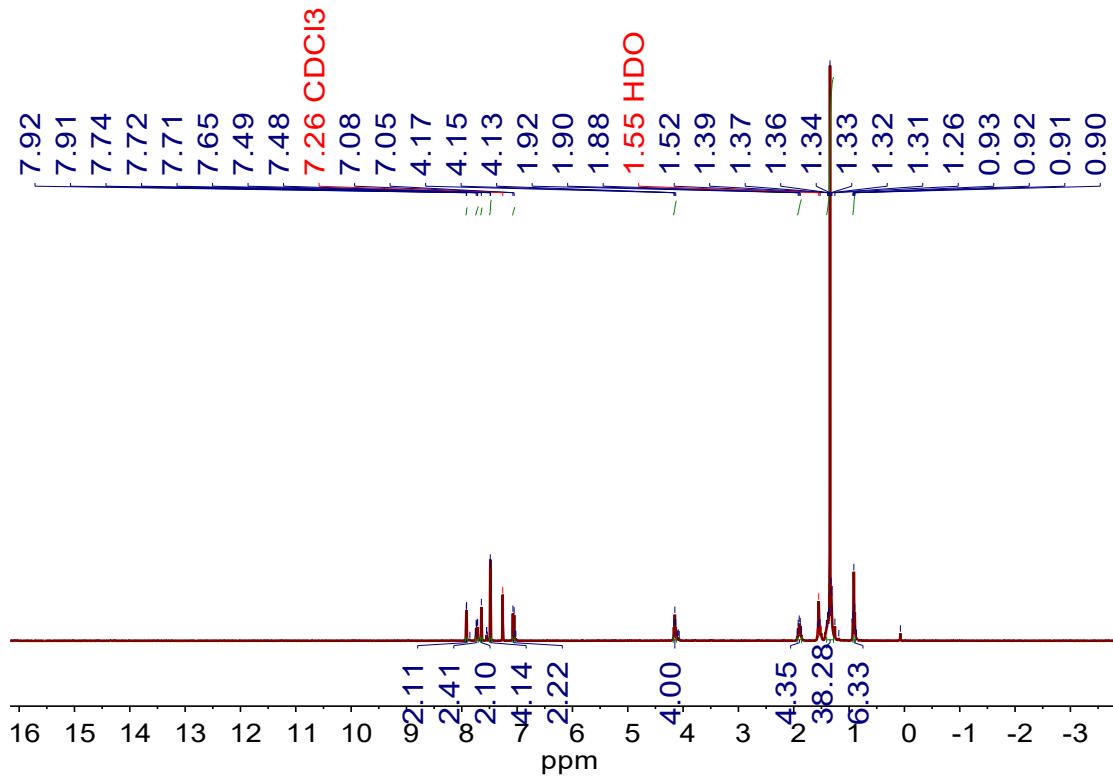


Figure S1 ^1H NMR spectrum of **PPCy-1** in CDCl_3 .

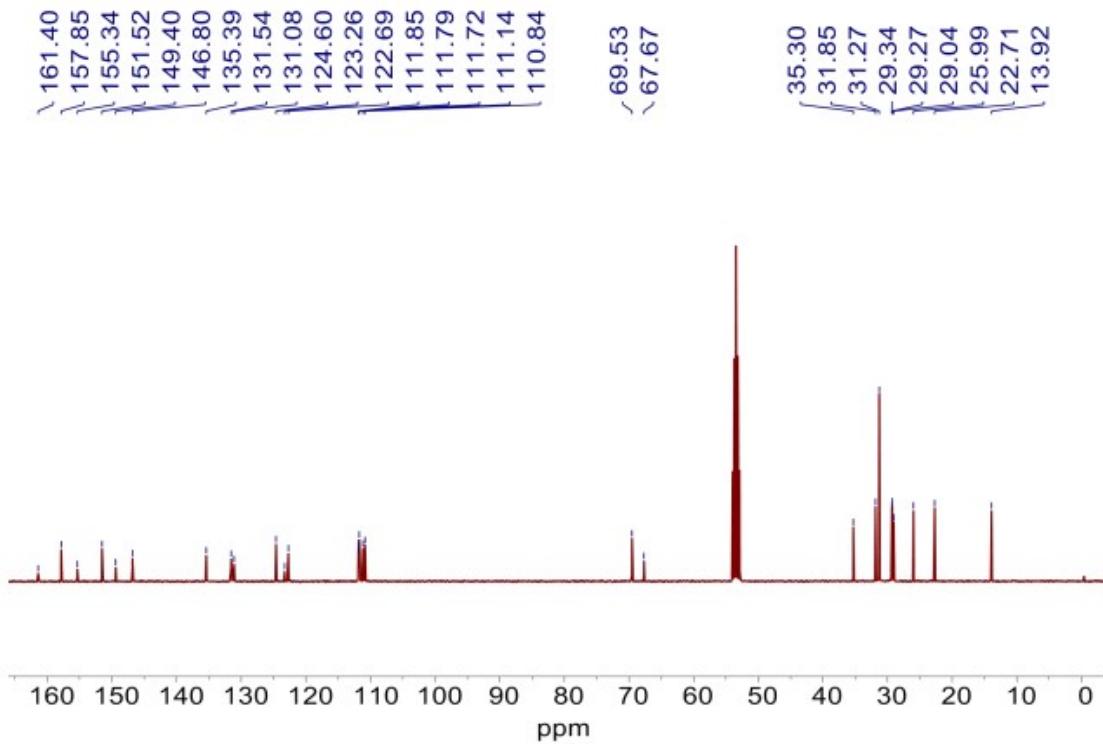


Figure S2 ^{13}C NMR spectrum of PPCy-1 in CDCl_3 .

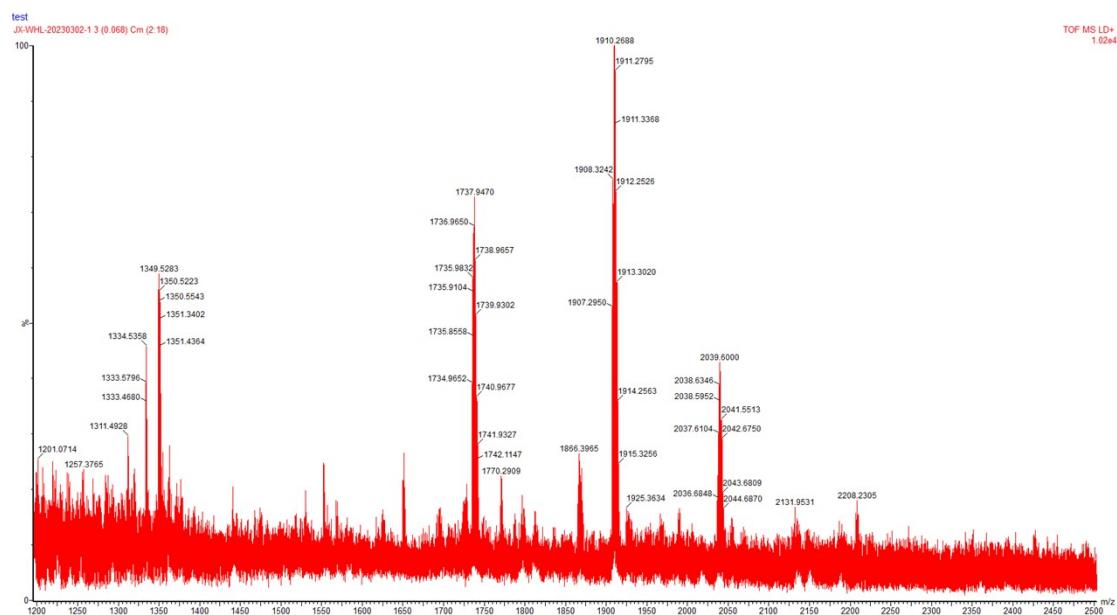


Figure S3 ESI-MS spectrum of PPCy-1.

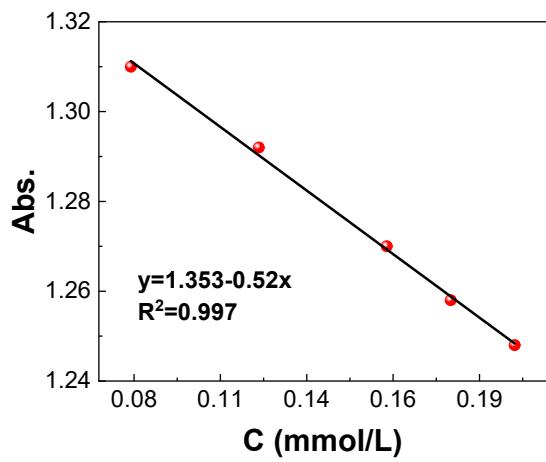


Figure S4 The linear plot of absorption band at 690 nm vs. SEM concentration.

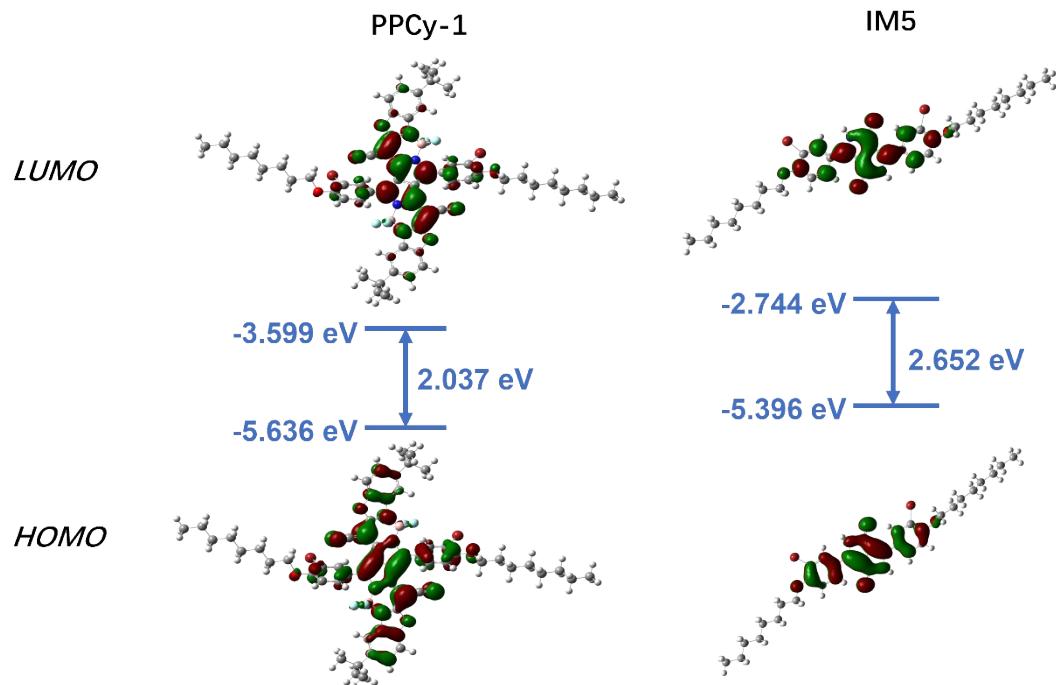


Figure S5 The DFT results of **PPCy-1** and **IM5**.