## **Supporting Information**

## Selective Sensing of H<sub>2</sub>PO<sub>4</sub> (Pi) Driven by Assembly of Anthryl Pyridinium Ligand

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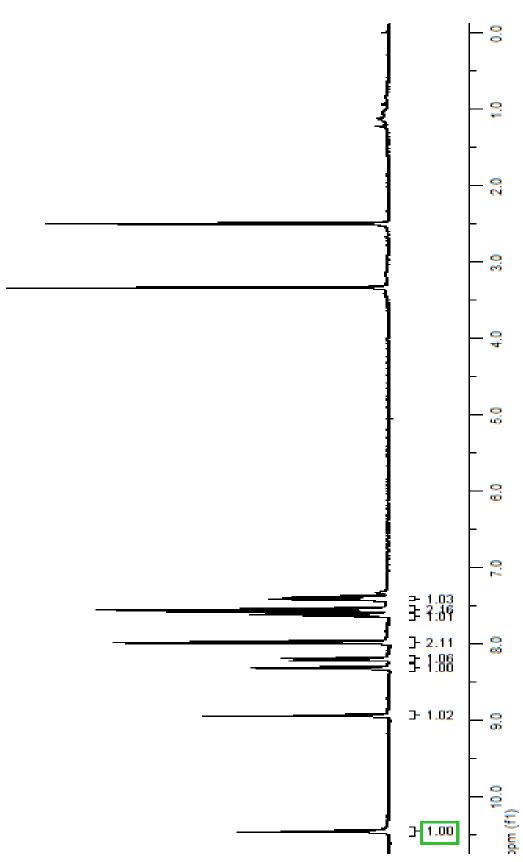
Dalian University of Technology, 2 Linggong Road, Dalian 116024, P.R.

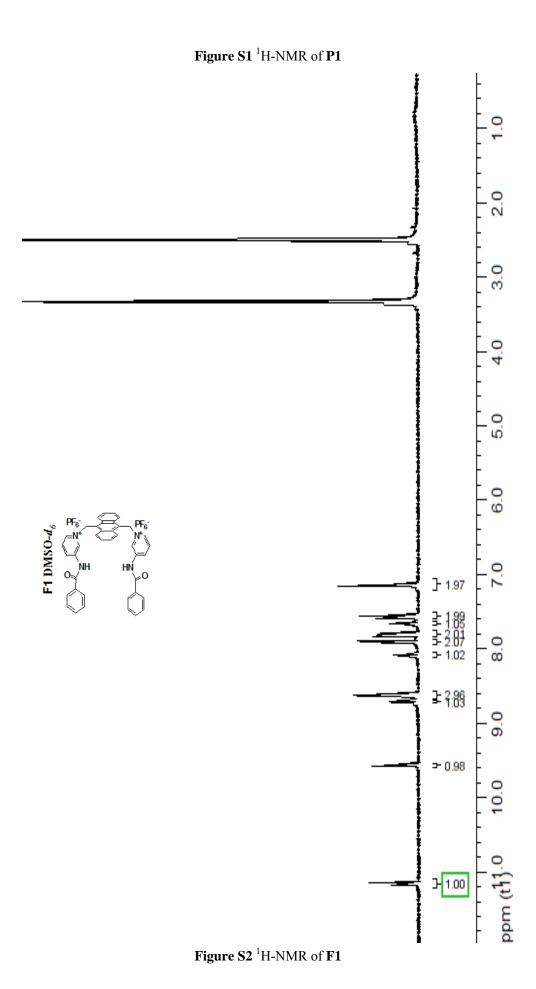
China.

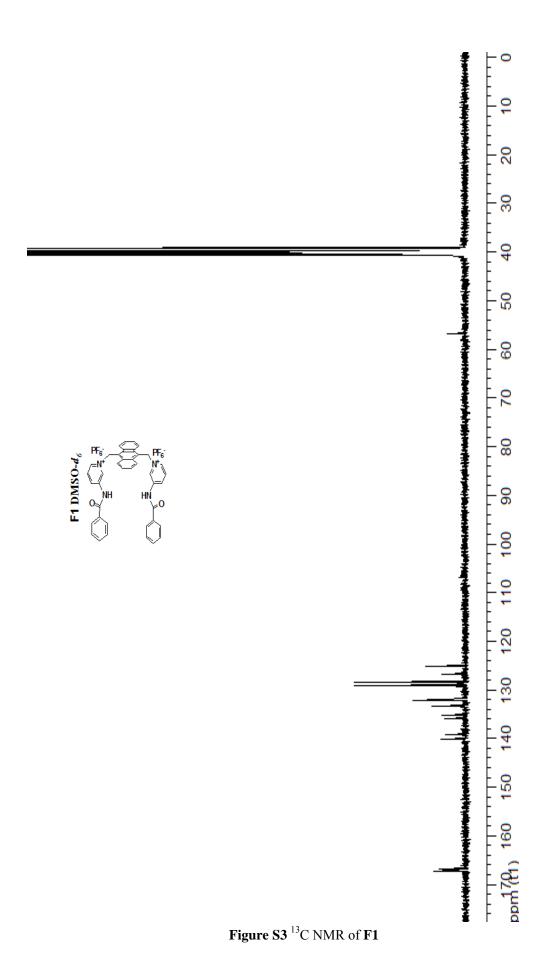
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## **Experimental Section**







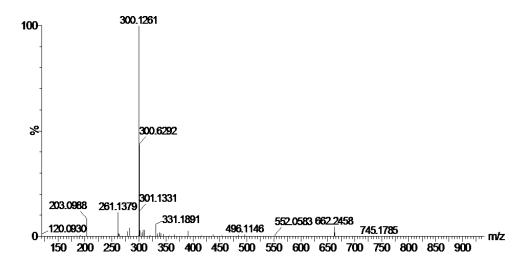


Figure S4 HRMS of F1

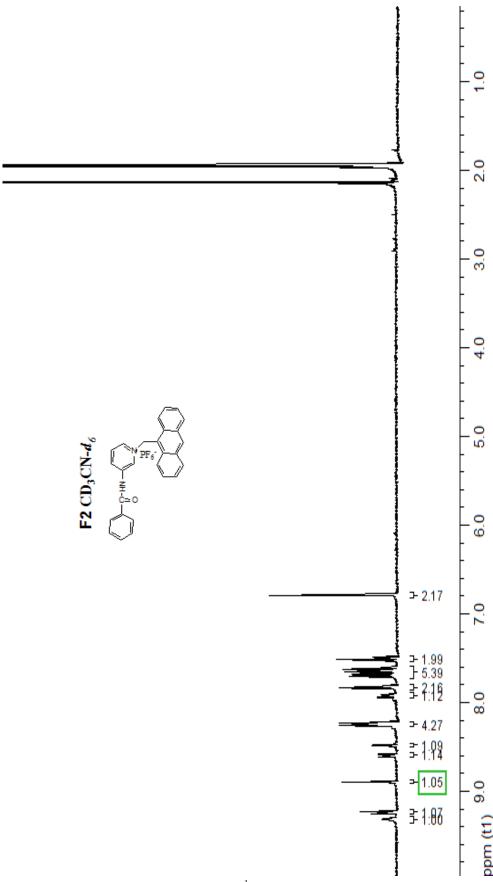
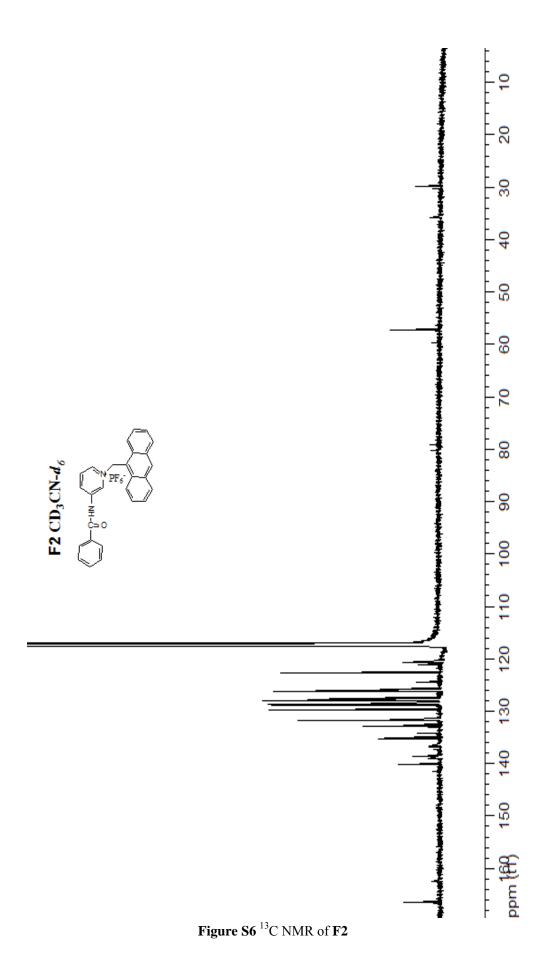
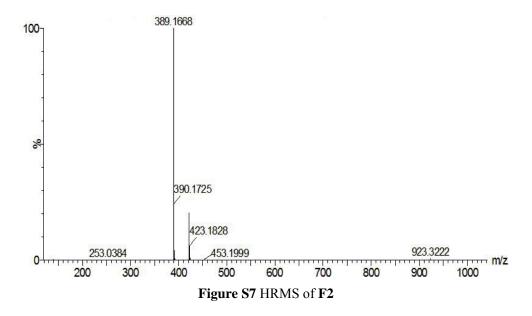


Figure S5 <sup>1</sup>H-NMR of F2





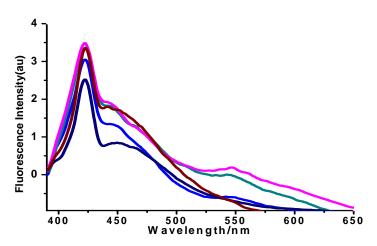
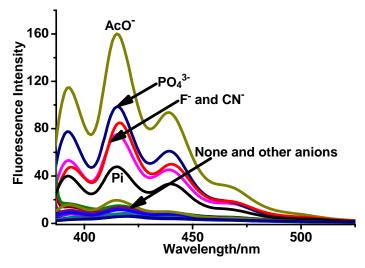


Figure S8 Fluorescence spectrum of various concentration F2 in CH<sub>3</sub>CN



**Figure S9** Fluorescence spectrum of **F2** (5.0  $\mu$ M) upon addition of 5 equiv. of various anions in CH<sub>3</sub>CN.