

# Supporting Information

## Iodide Macroscopic Recognition by a Polymer-Appended Calix[4]arene Resin

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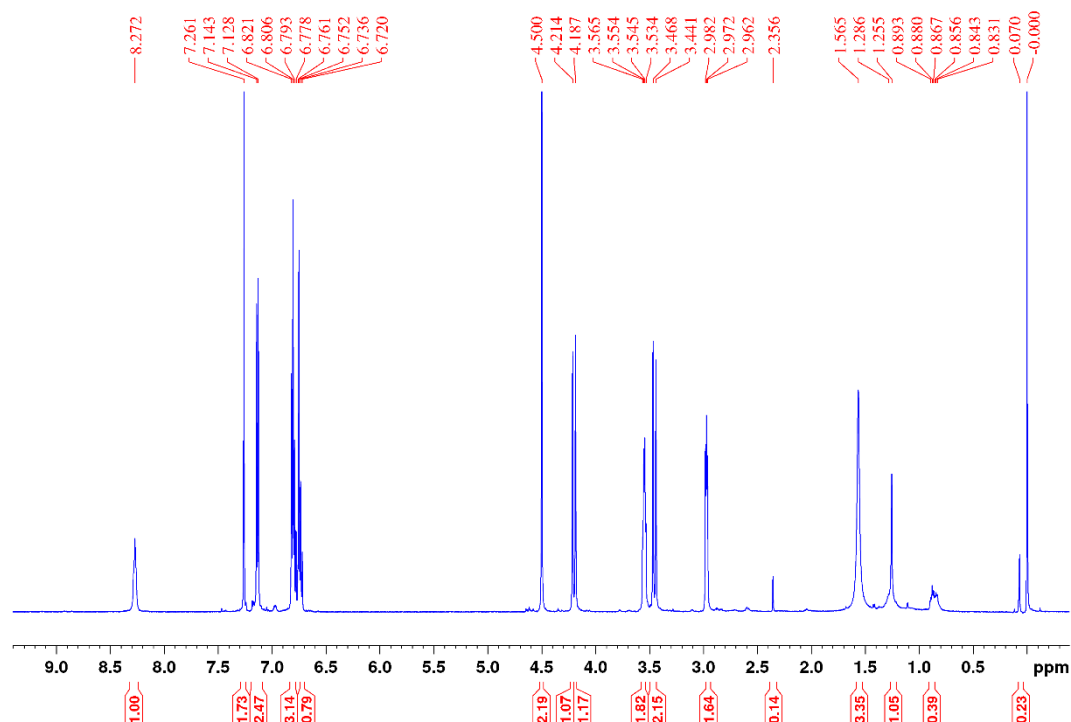


Fig. S1. Showing  $^1\text{H}$ NMR Spectra of Calix[4]amido crown-5 in  $\text{CD}_3\text{CN}$

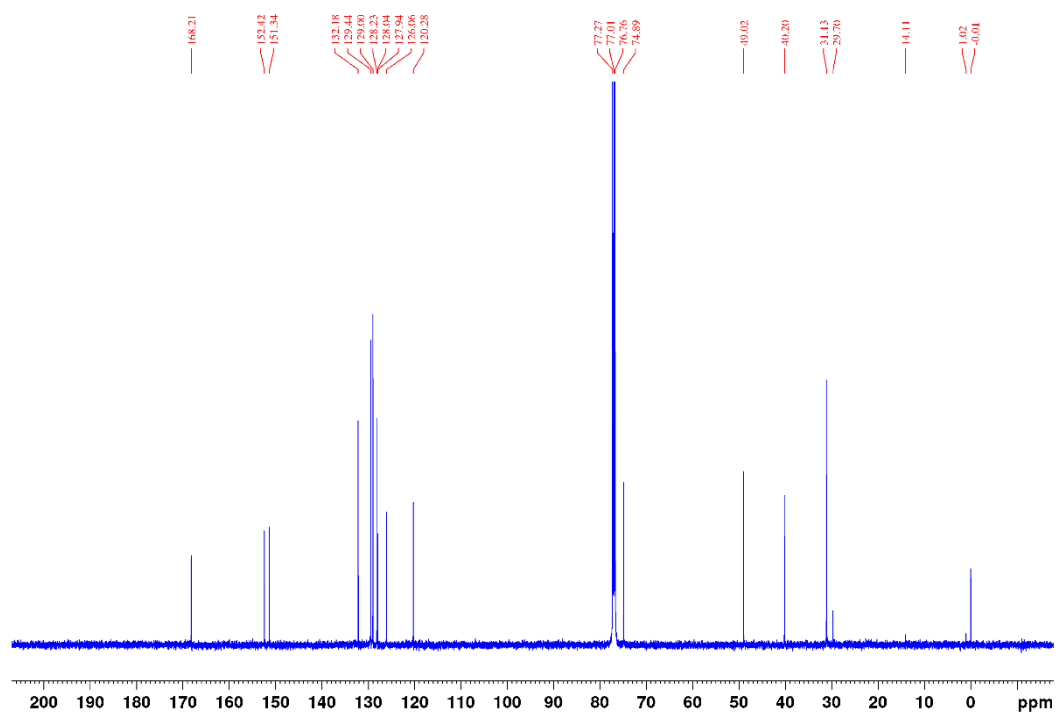


Fig. S2. Showing <sup>13</sup>CNMR Spectra of Calix[4]amido crown-5 in CD<sub>3</sub>CN

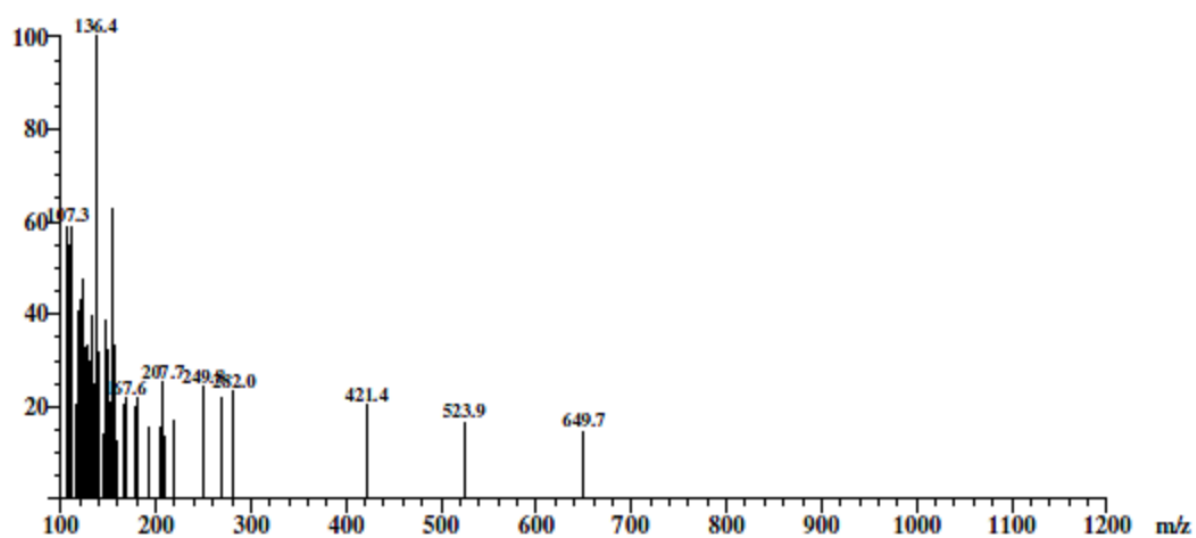


Fig. S3. Showing ESI/MS Mass Spectra of Calix[4]amido crown-5

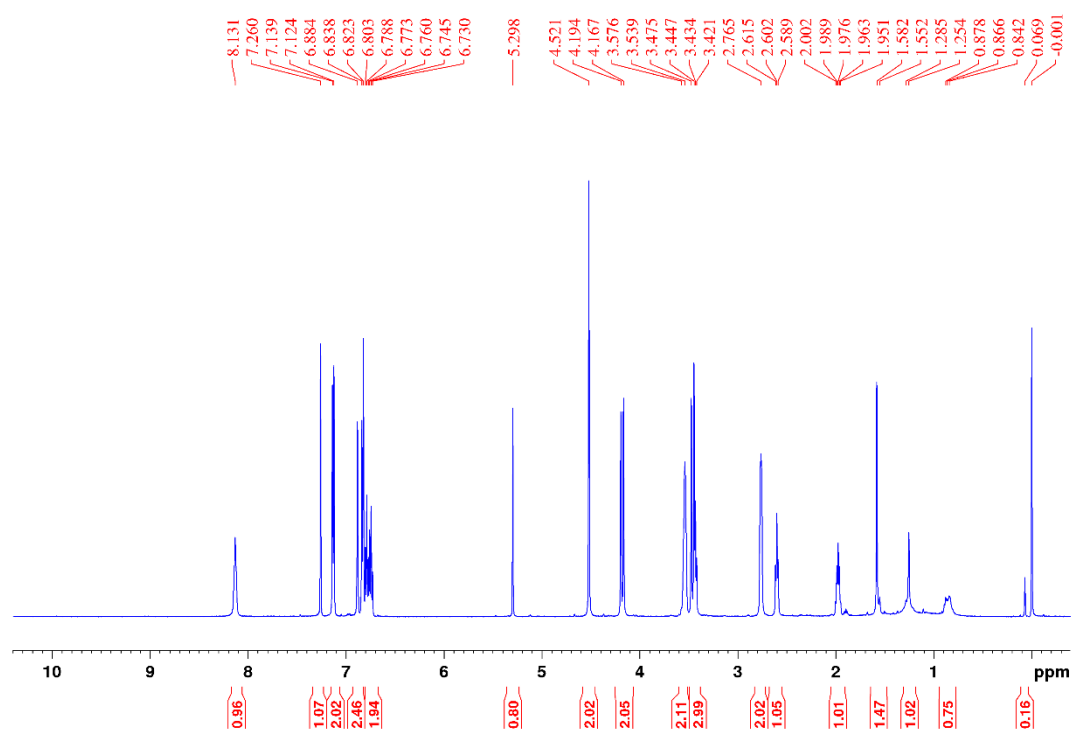


Fig. S4. Showing <sup>1</sup>H NMR Spectra of Synthesized Compound A in CD<sub>3</sub>CN

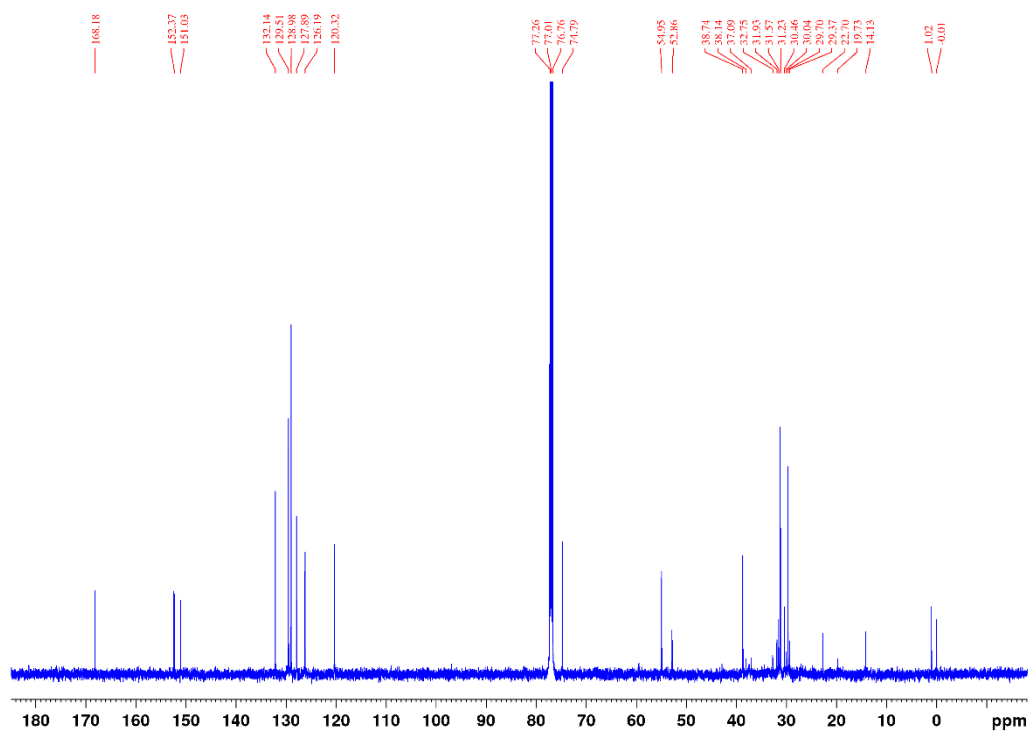


Fig. S5. Showing <sup>13</sup>C NMR Spectra of Synthesized Compound A in CD<sub>3</sub>CN

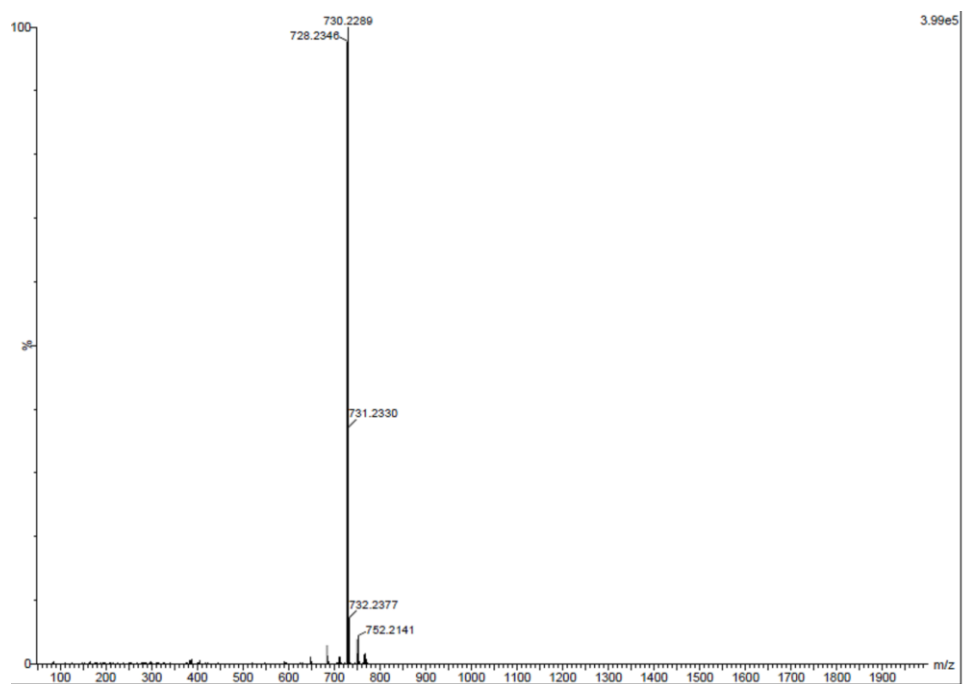


Fig. S6. Showing ESI/MS Mass Spectra of Spectra of Synthesized Compound A

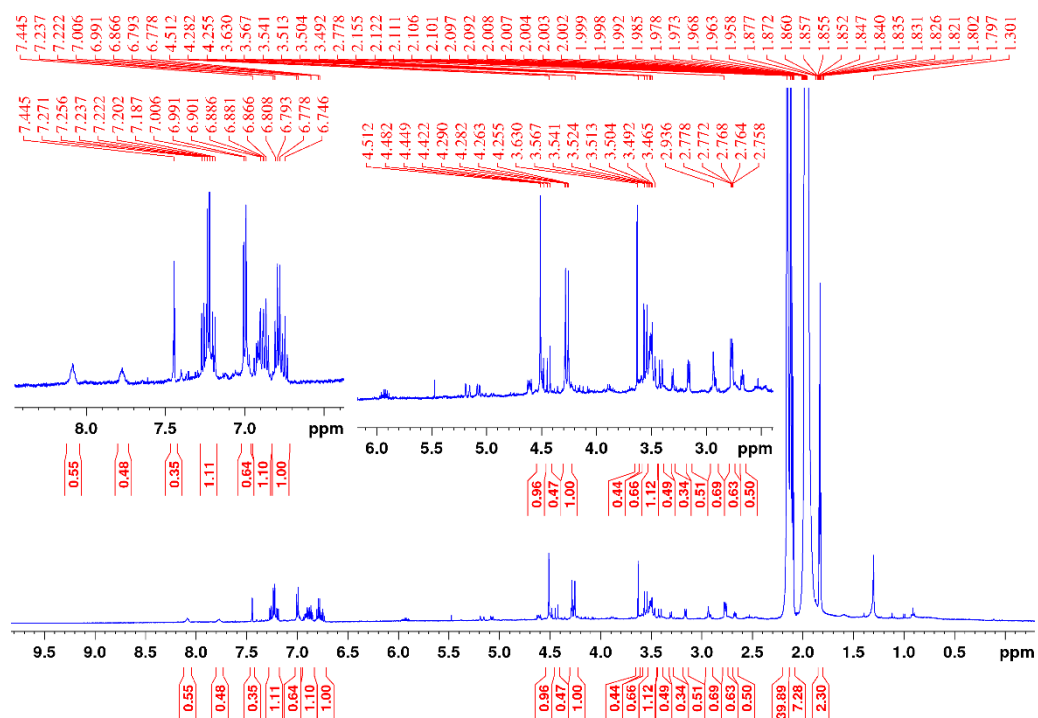


Fig. S7. Showing <sup>1</sup>H NMR Spectra of Synthesized Compound B in CD<sub>3</sub>CN

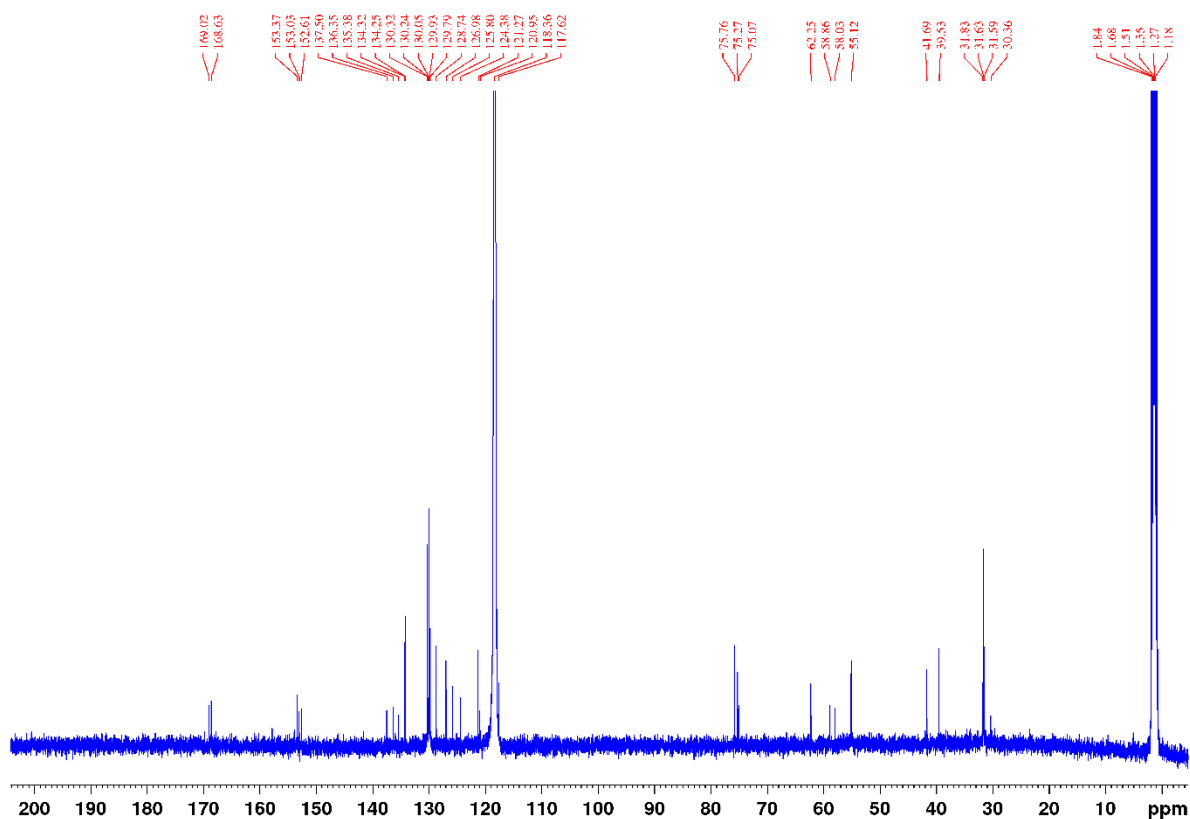


Fig. S8. Showing <sup>13</sup>C NMR Spectra of Synthesized Compound B in CD<sub>3</sub>CN

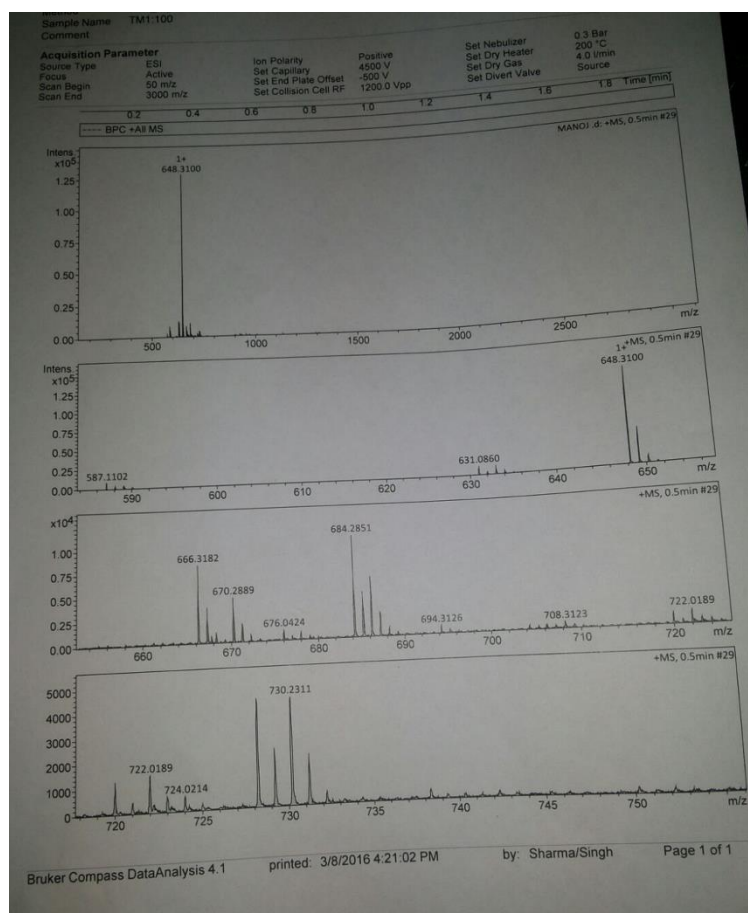


Fig. S9. Showing ESI/MS Mass Spectra of Spectra of Synthesized Compound B

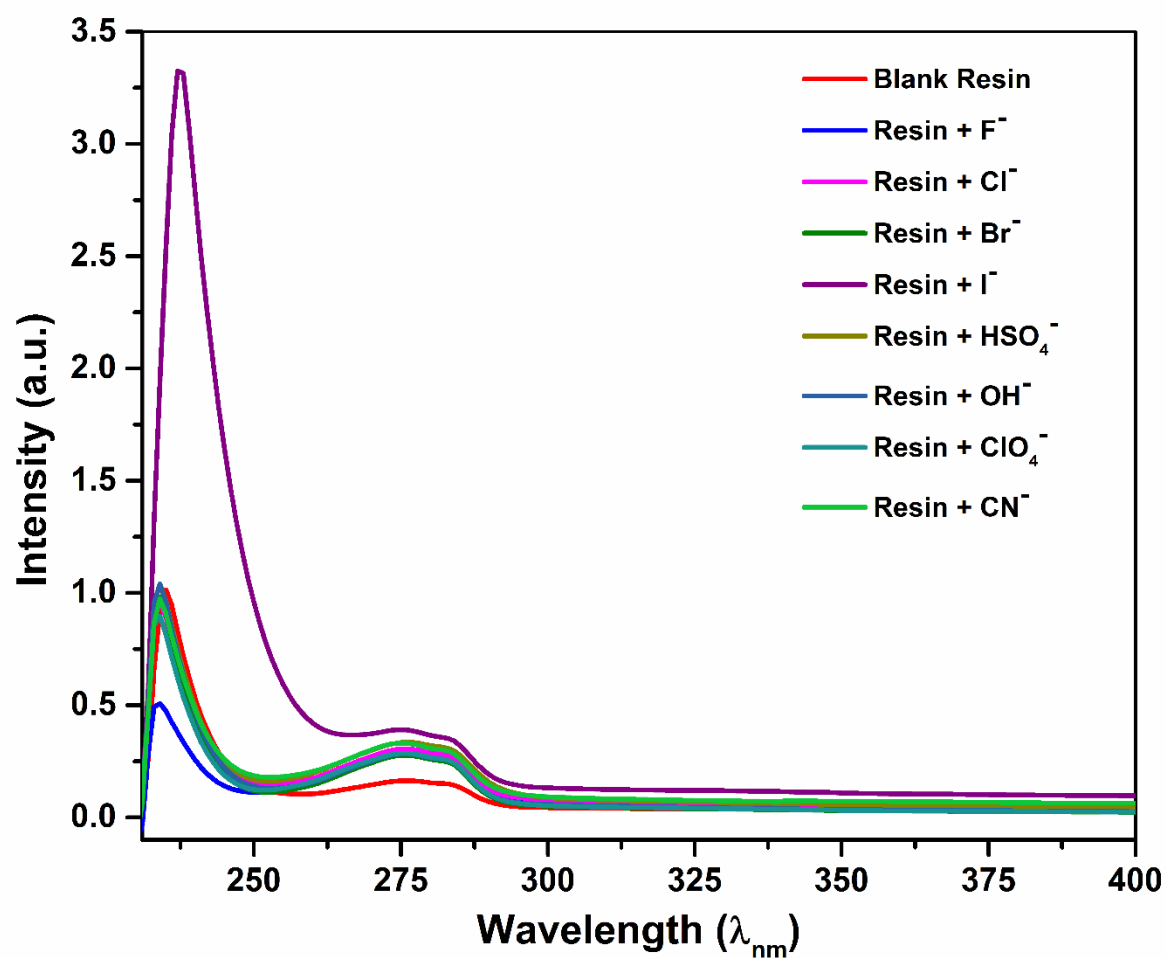


Fig. S10. Showing UV-vis titration spectra results for resin with different anions ( $\text{F}^-$ ,  $\text{Cl}^-$ ,  $\text{Br}^-$ ,  $\text{I}^-$ ,  $\text{HSO}_4^-$ ,  $\text{OH}^-$ ,  $\text{ClO}_4^-$  &  $\text{CN}^-$ ) in  $\text{MeOH-CHCl}_3$ .

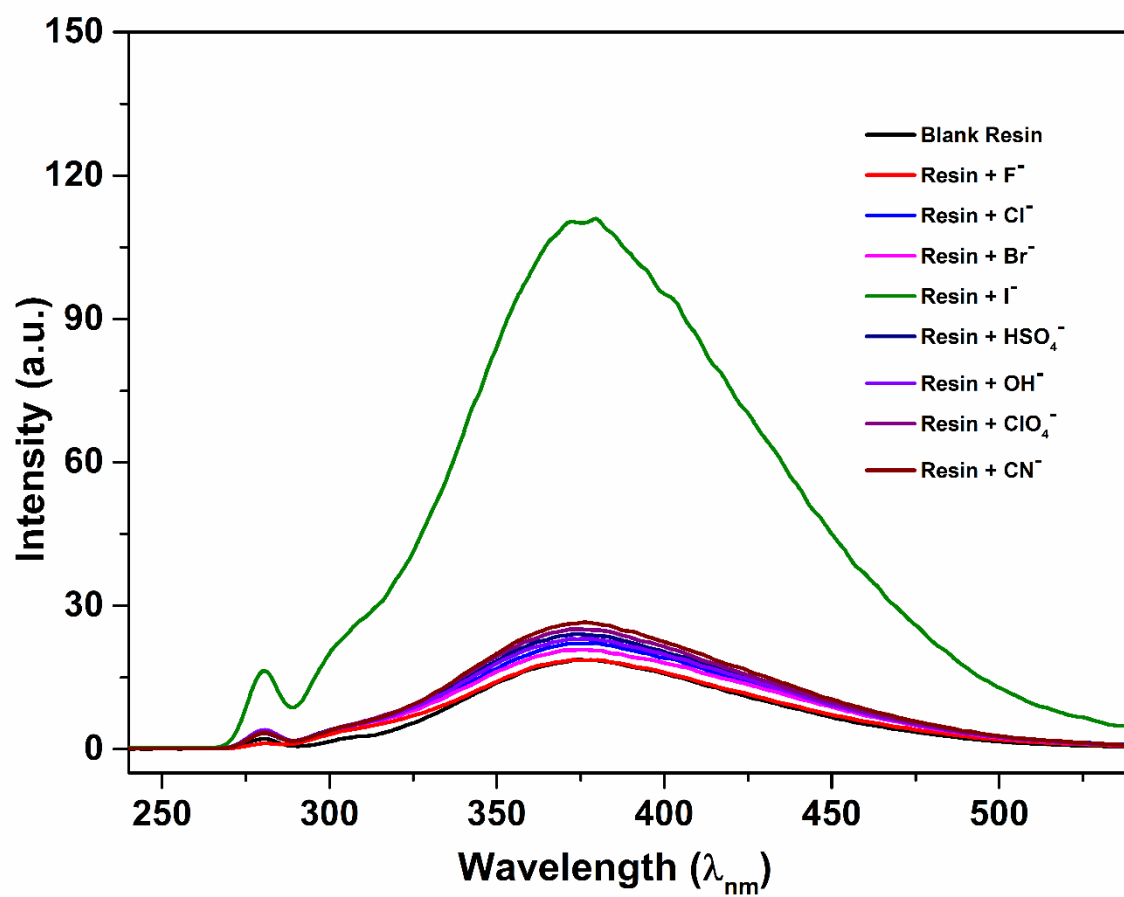


Fig. S11. Showing Fluorescence titration spectra results for resin with different anions (F<sup>-</sup>, Cl<sup>-</sup>, Br<sup>-</sup>, I<sup>-</sup>, HSO<sub>4</sub><sup>-</sup>, OH<sup>-</sup>, ClO<sub>4</sub><sup>-</sup> & CN<sup>-</sup>) in MeOH-CHCl<sub>3</sub>.

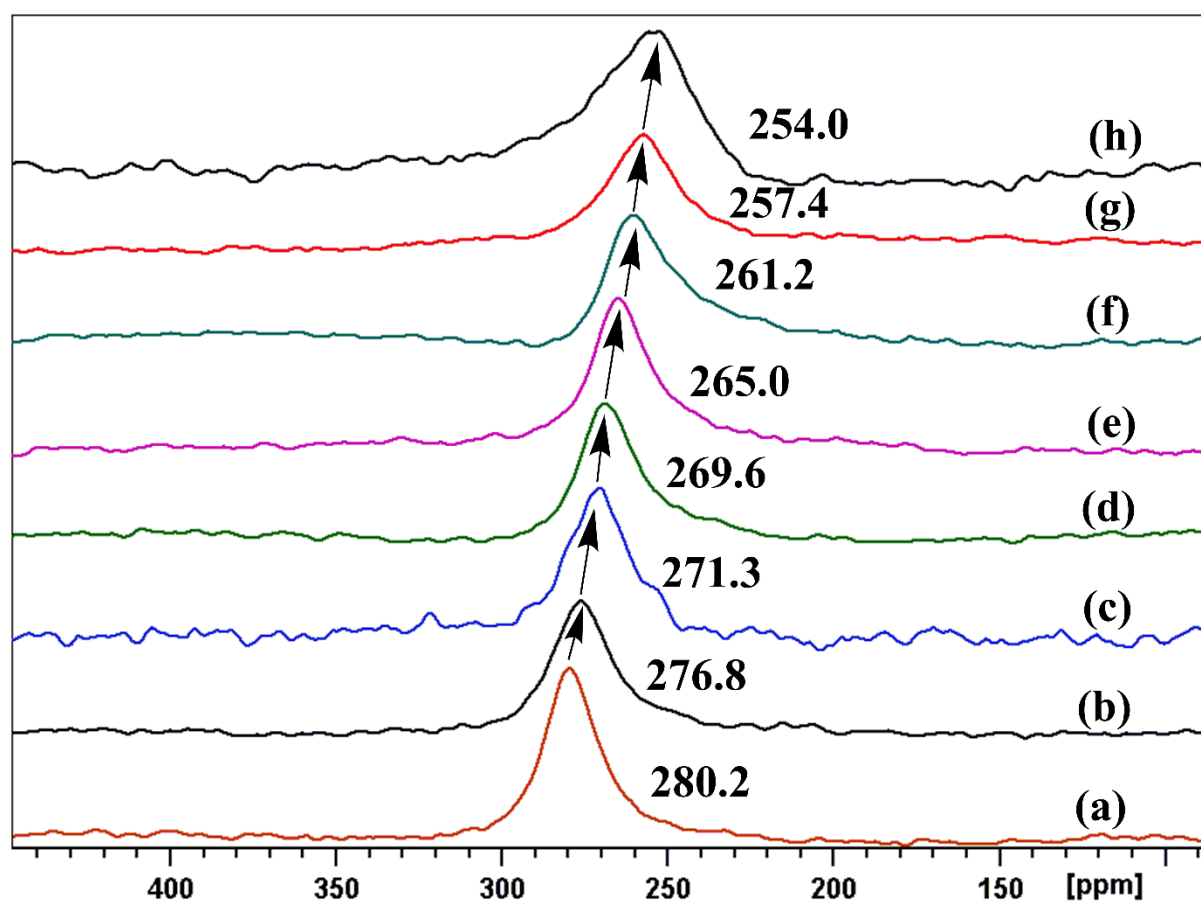


Fig. S12. Showing  $^{127}\text{I}$  NMR Spectra of Resin and Resin +  $\text{I}^-$  in  $\text{d}_6\text{-DMSO}$  (a) Blank Resin (b) Resin +  $\text{I}^-$  after 30 min (c) after 1 hr (d) after 1.5 hr (e) after 2 hr (f) after 2.5 hr (g) after 3 hr (h) after 3.5 hr.