Supporting Information

Potentiometric performance of ion-selective-electrodes based on polyaniline and chelating agents: Detection of Fe^{2+} or Fe^{3+} ions

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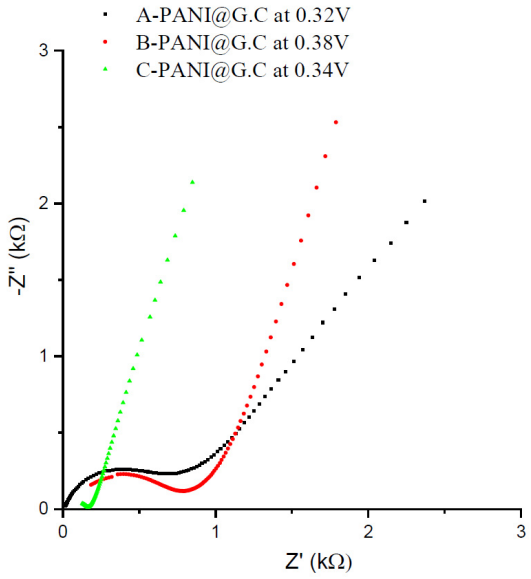

Figure S1. EIS in 0.1 M NaCl of A-PANI@G.C, B-PANI@G.C, and C-PANI@G.C.

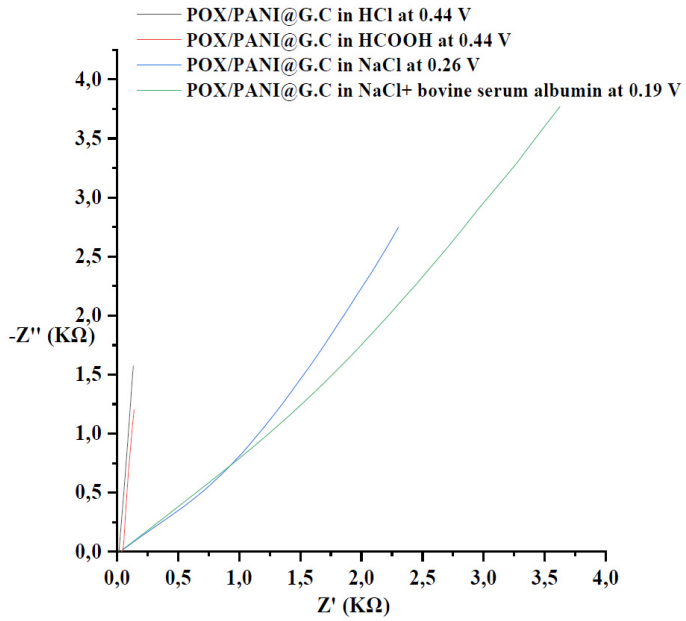

Figure S2. EIS POX/PANI@G.C in different electrolytes and with BSA.

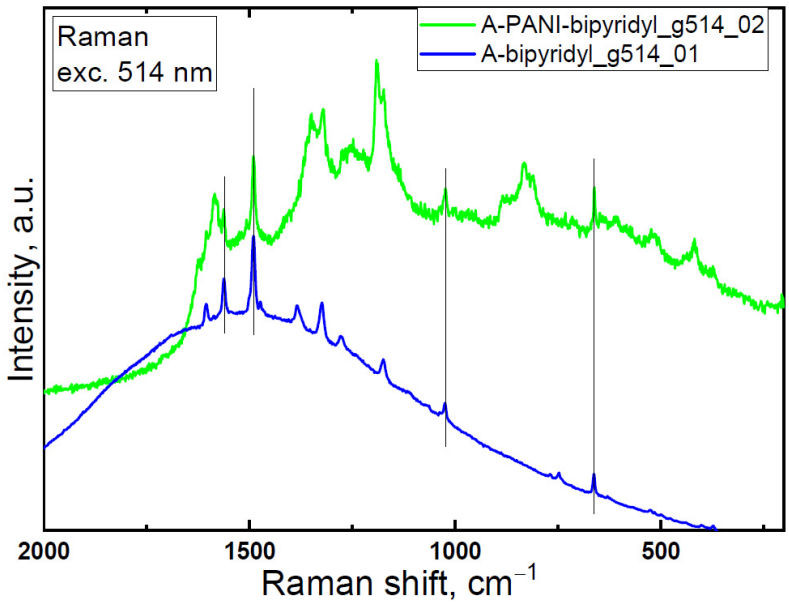

Figure S3. Raman spectra, excitation line 514 nm, of A-PANI @G.C.

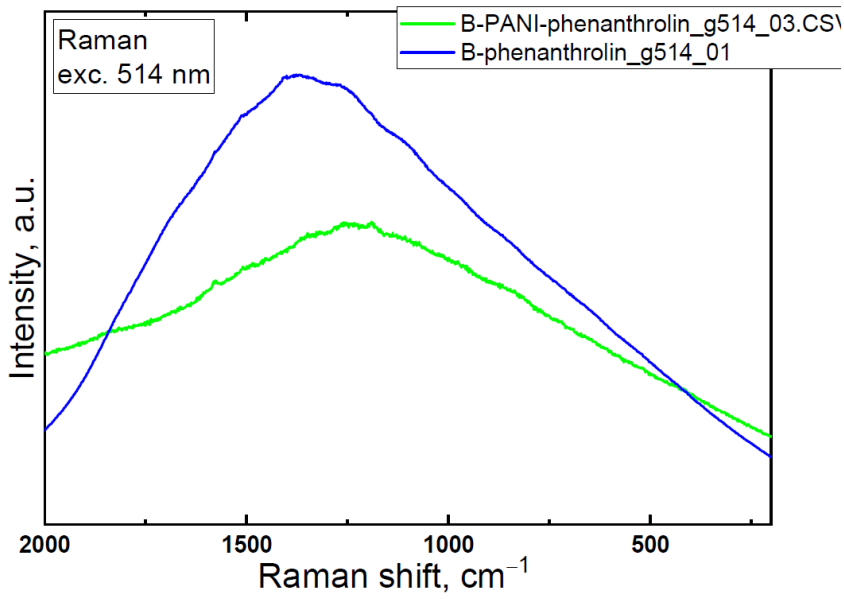

Figure S4. Raman spectra, excitation line 514 nm, of B -PANI @G.C.

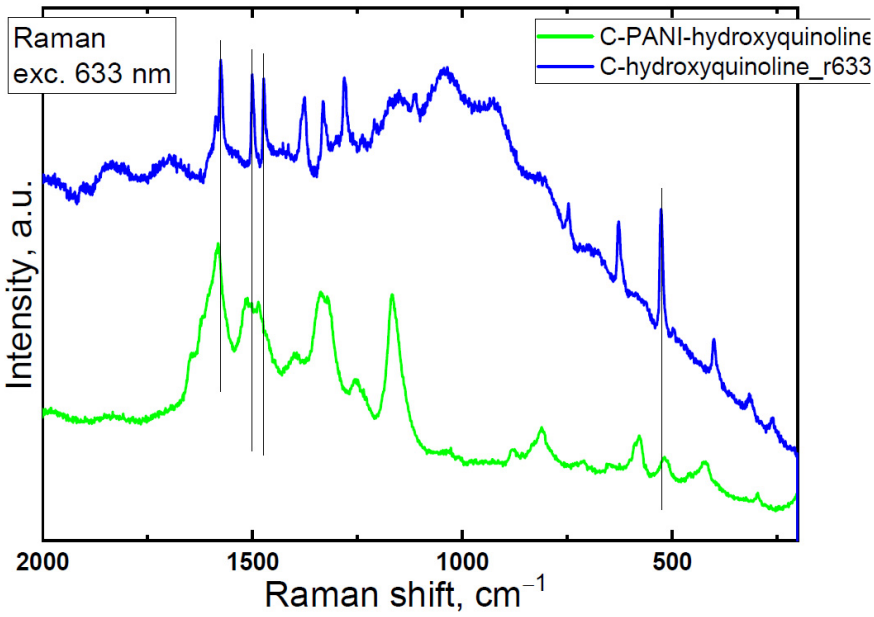

Figure S5. Raman spectra, excitation line 633 nm, of C-PANI@G.C.

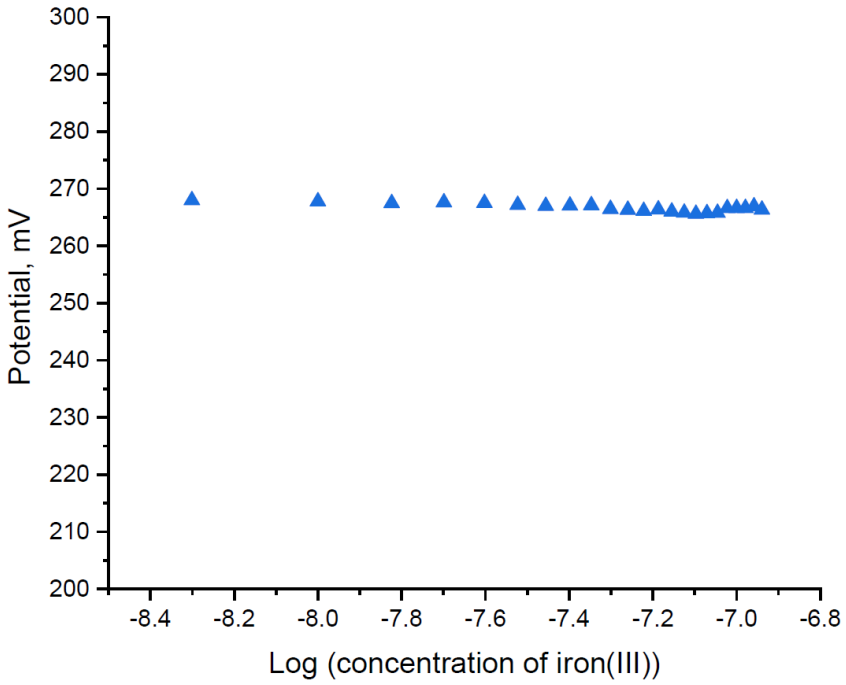

Figure S6. Potentiometric measurements of PANI@G.C layer without the presence of chelating molecules.

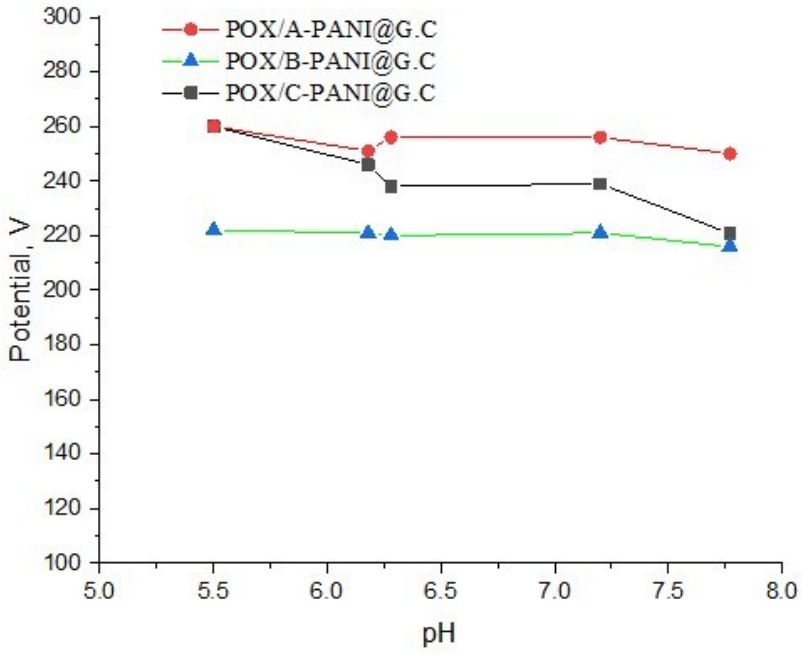

Figure S7. Potentiometric response of different sensing layers (different chelating agents) vs pH.

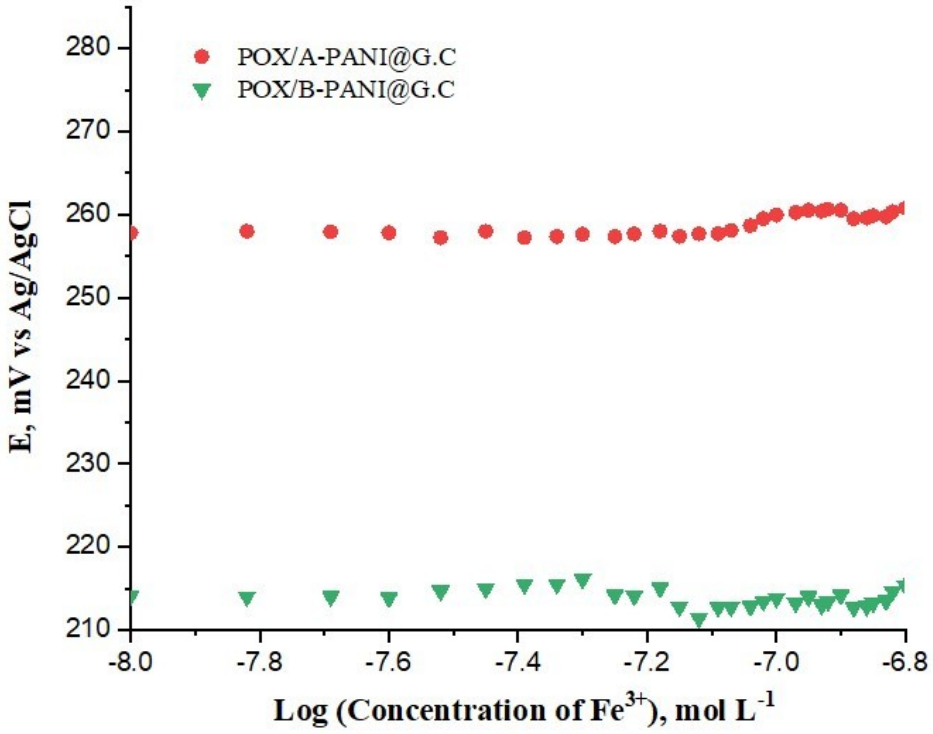

Figure S8. Potentiometric response (Fe^{3+} concentration vs E) of POX/A-PANI@G.C and POX/B-PANI@G.C sensing layers in 0.1 M NaCl.

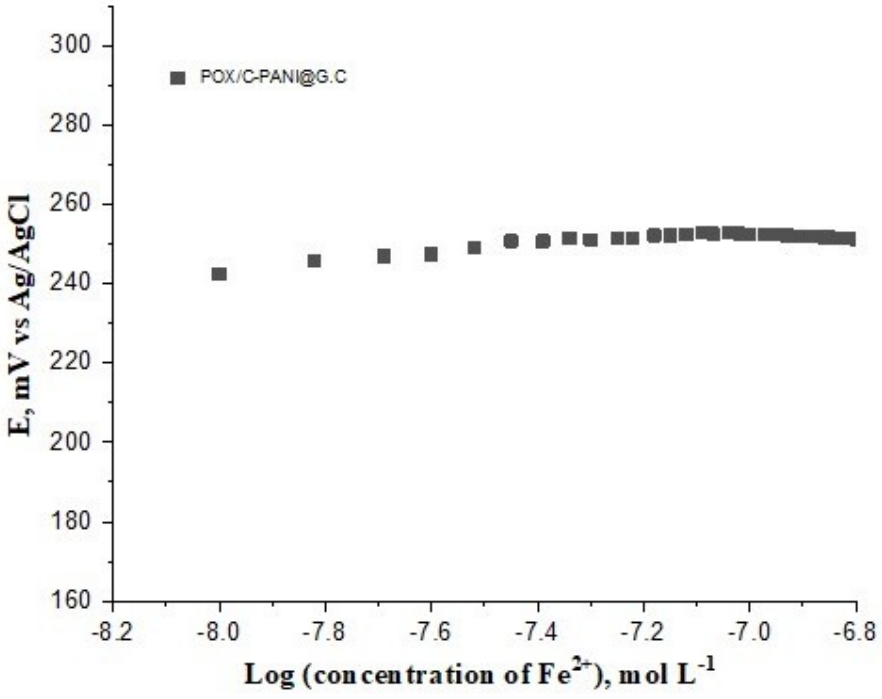

Figure S9 Potentiometric response (Fe^{2+} concentration vs E) of POX/C-PANI@G.C sensing layers in 0.1 M NaCl.