

Fig.1. Potentiodynamic polarization of (a) $E_{11}N_4$ and (b) $E_{11}N_6$ for the carbon steel in formation water containing sulfide ions in the absence and presence of various concentrations at 25°C.

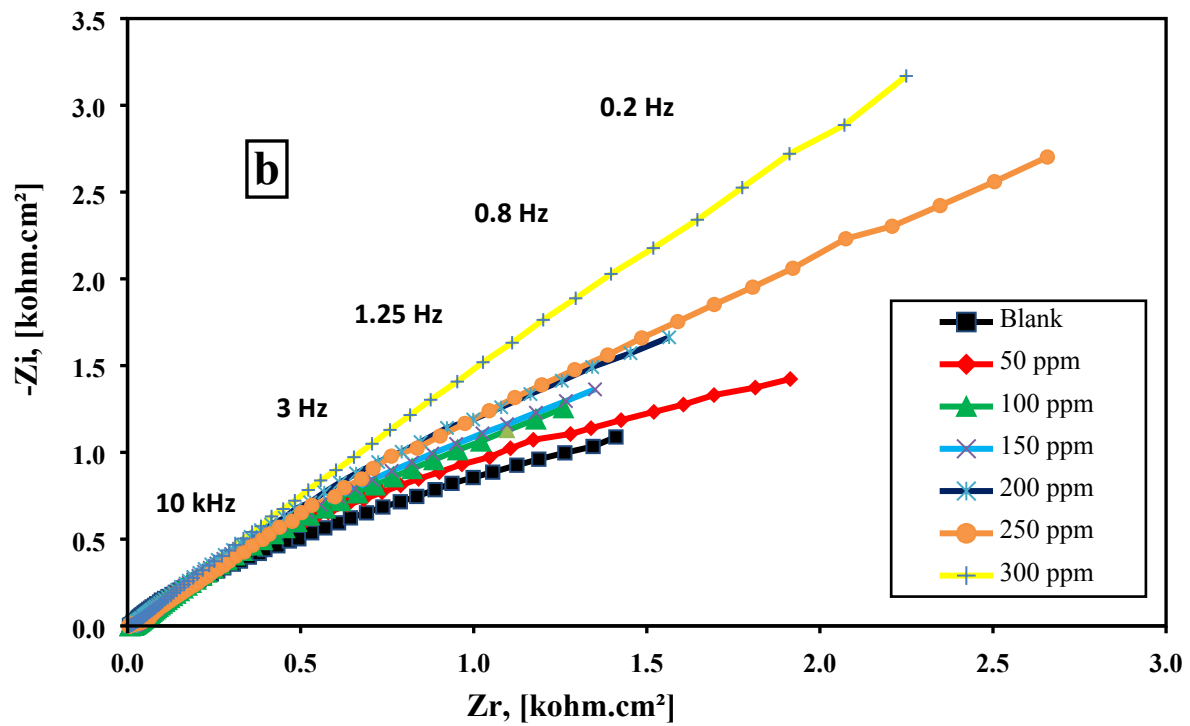
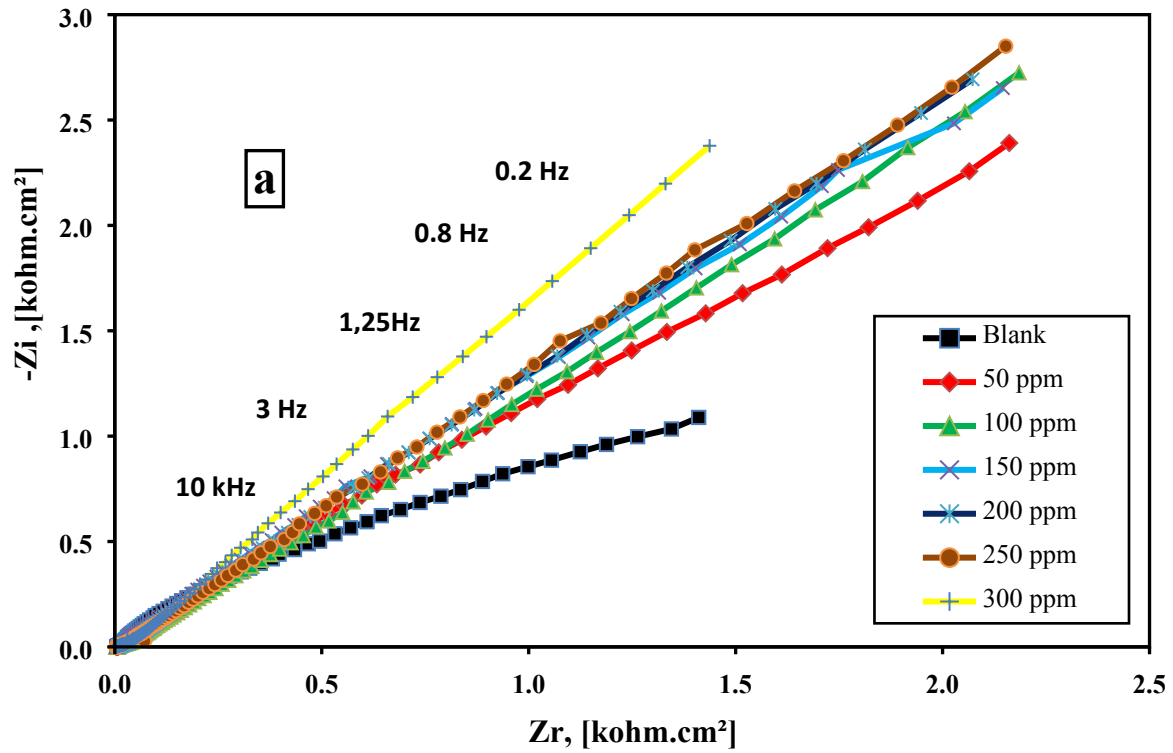


Fig.2. Nyquist plot of (a) $E_{11}N_4$ and (b) $E_{11}N_6$ for the carbon steel in formation water containing sulfide ions in the absence and presence of different concentrations at 25°C.

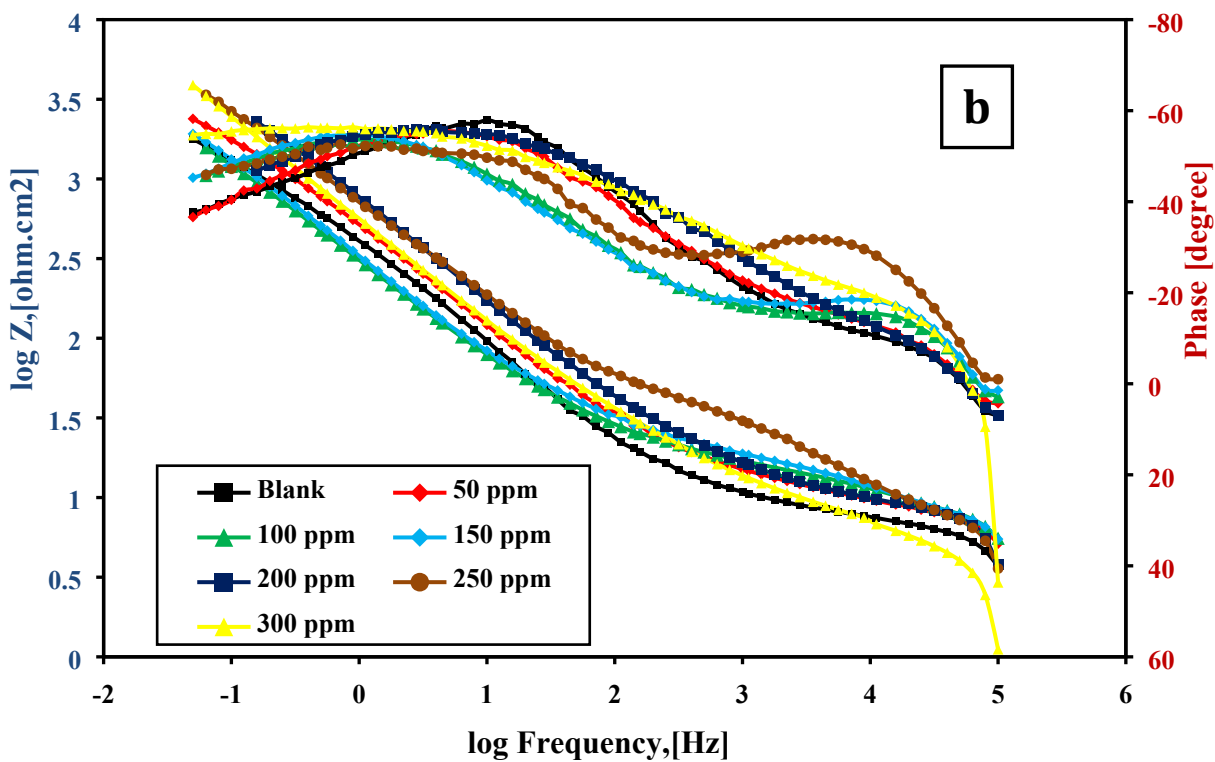
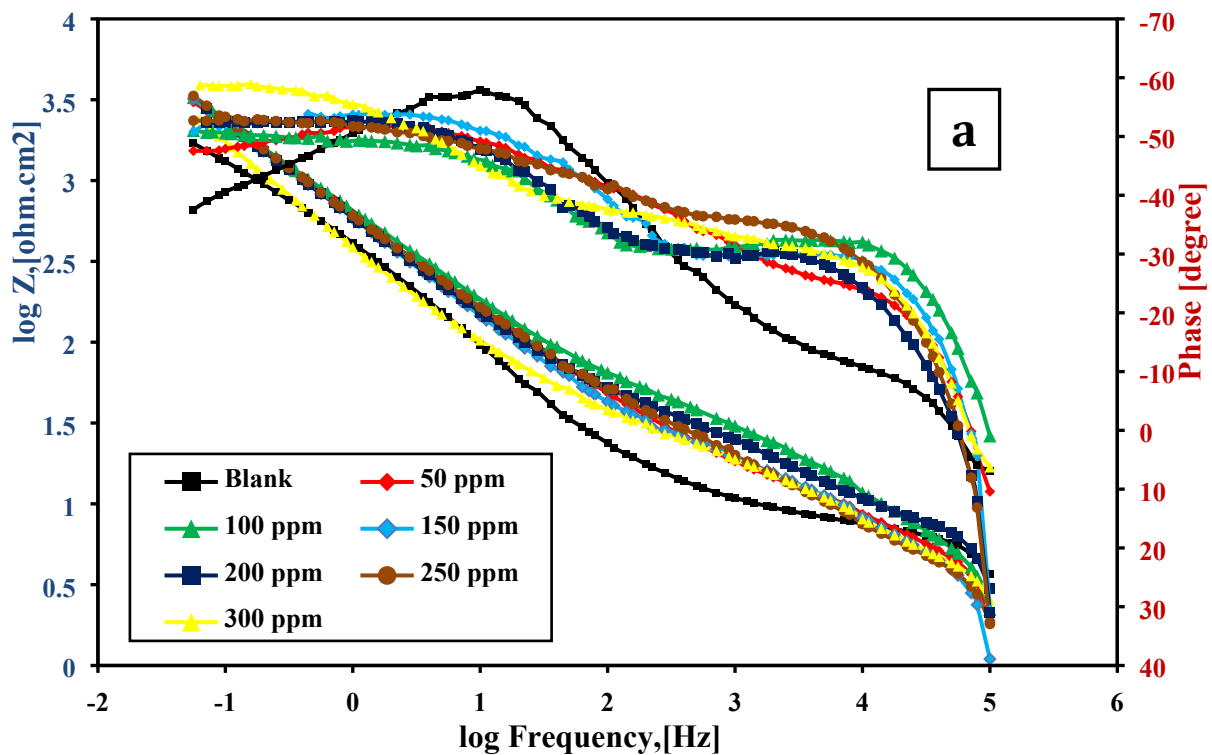


Fig.3. Bode plot of (a) E₁₁N₄ and (b) E₁₁N₆ for the carbon steel in formation water containing sulfide ions in the absence and presence of different concentrations at 25°C.