

## **SUPPLEMENTARY FILE**

### **Evaluation of a 4-amino-antipyrine based Schiff base as corrosion inhibitor for steel material**

**Ashwini Narayanswamy<sup>1</sup>, Dileep Ramakrishna<sup>1</sup>, P.V. Raja Shekar<sup>2</sup>, Shashanka  
Rajendrachari<sup>3\*</sup>, Ranganatha Sudhakar<sup>1\*</sup>**

<sup>1</sup>Department of Chemistry, Presidency University, Rajanakunte, Bengaluru 560064, India

<sup>2</sup>Department of Physics, SR University, Warangal 506371, India

<sup>3</sup>Department of Metallurgical and Materials Engineering, Bartin University, Bartin-74100,  
Turkey

**\*Corresponding authors:** [kamath.ranganath@gmail.com](mailto:kamath.ranganath@gmail.com), [shashankaic@gmail.com](mailto:shashankaic@gmail.com)

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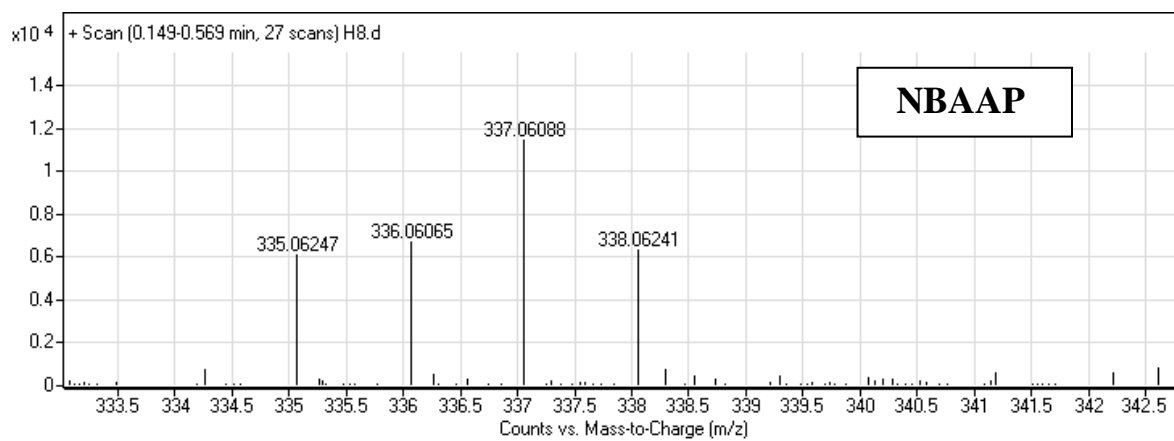
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**Figure S1: Mass Spectrum of complexes 4-[(4-Nitrobenzylidene)-amino]-antipyrine (4-NBAAP).**

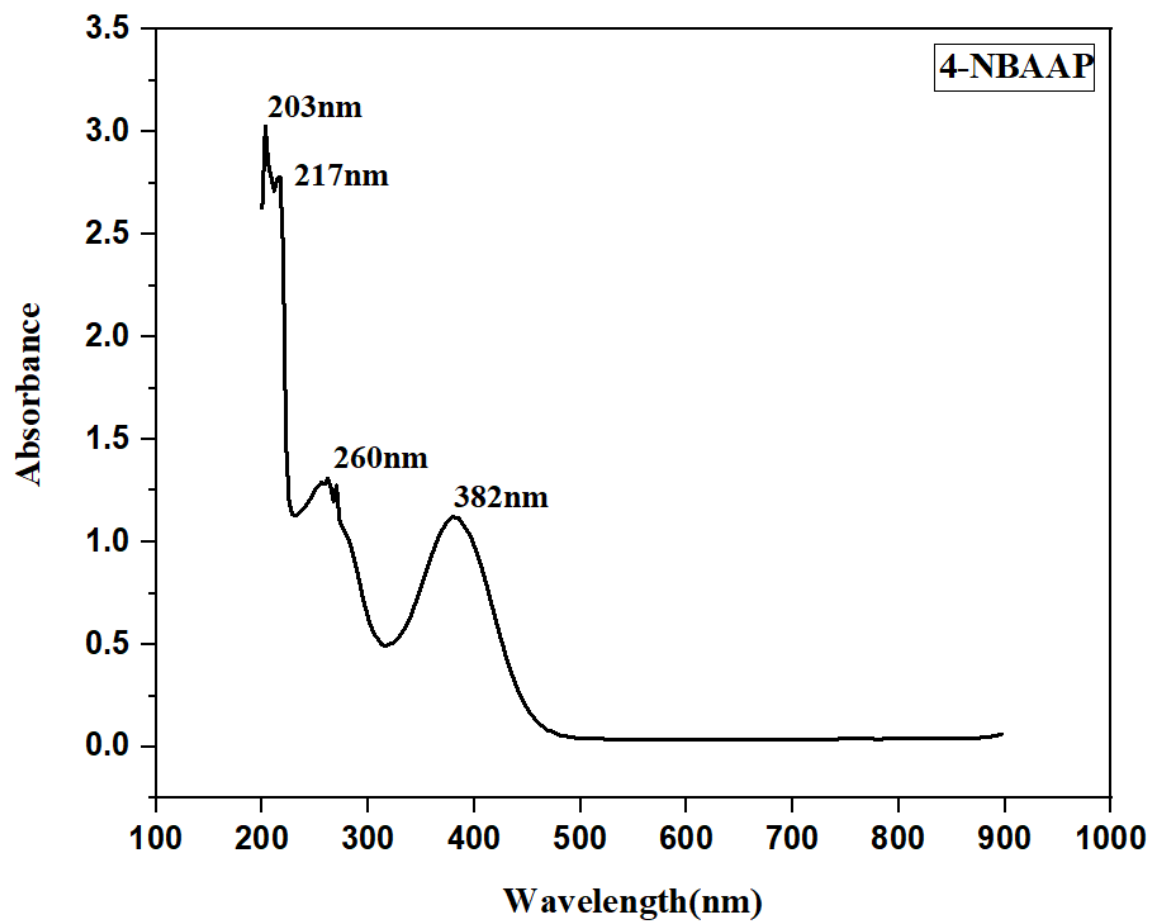


Figure S2: UV Spectrum of 4-[(4-Nitrobenzylidene)-amino]-antipyrine (4-NBAAP).

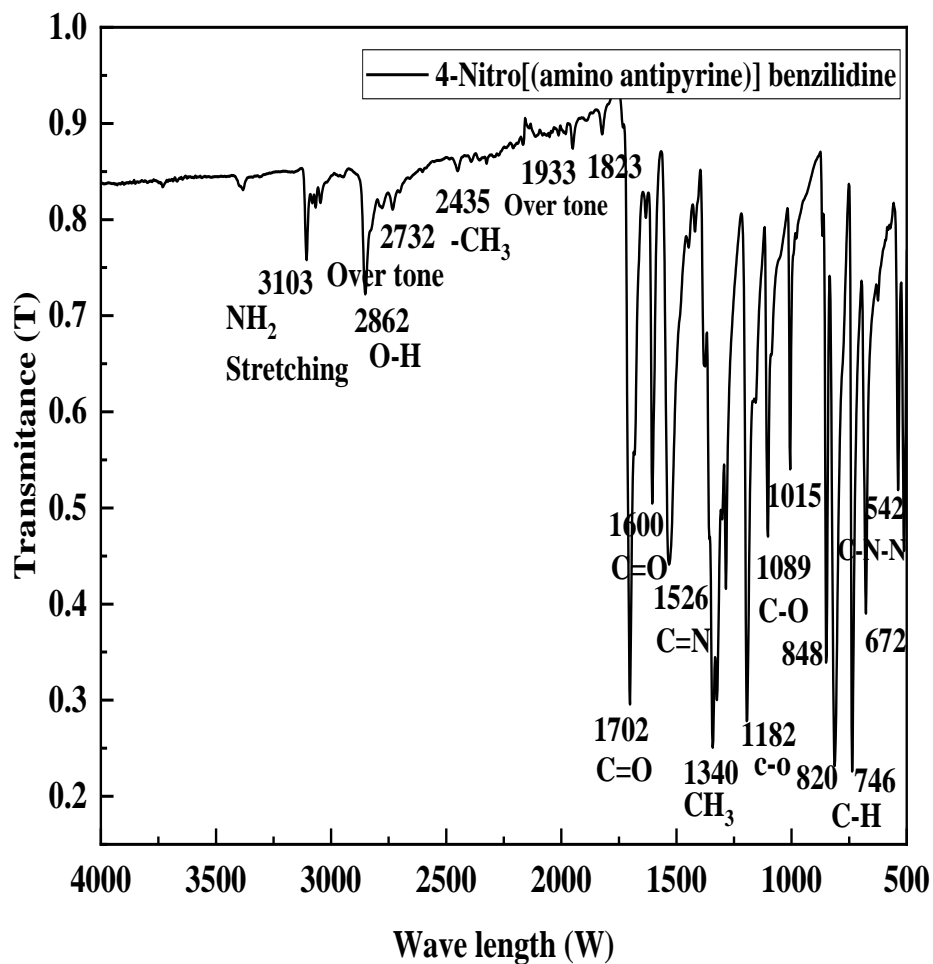


Figure S3: FTIR Spectrum of 4-[(4-Nitrobenzylidene)-amino]-antipyrine (4-NBAAP)

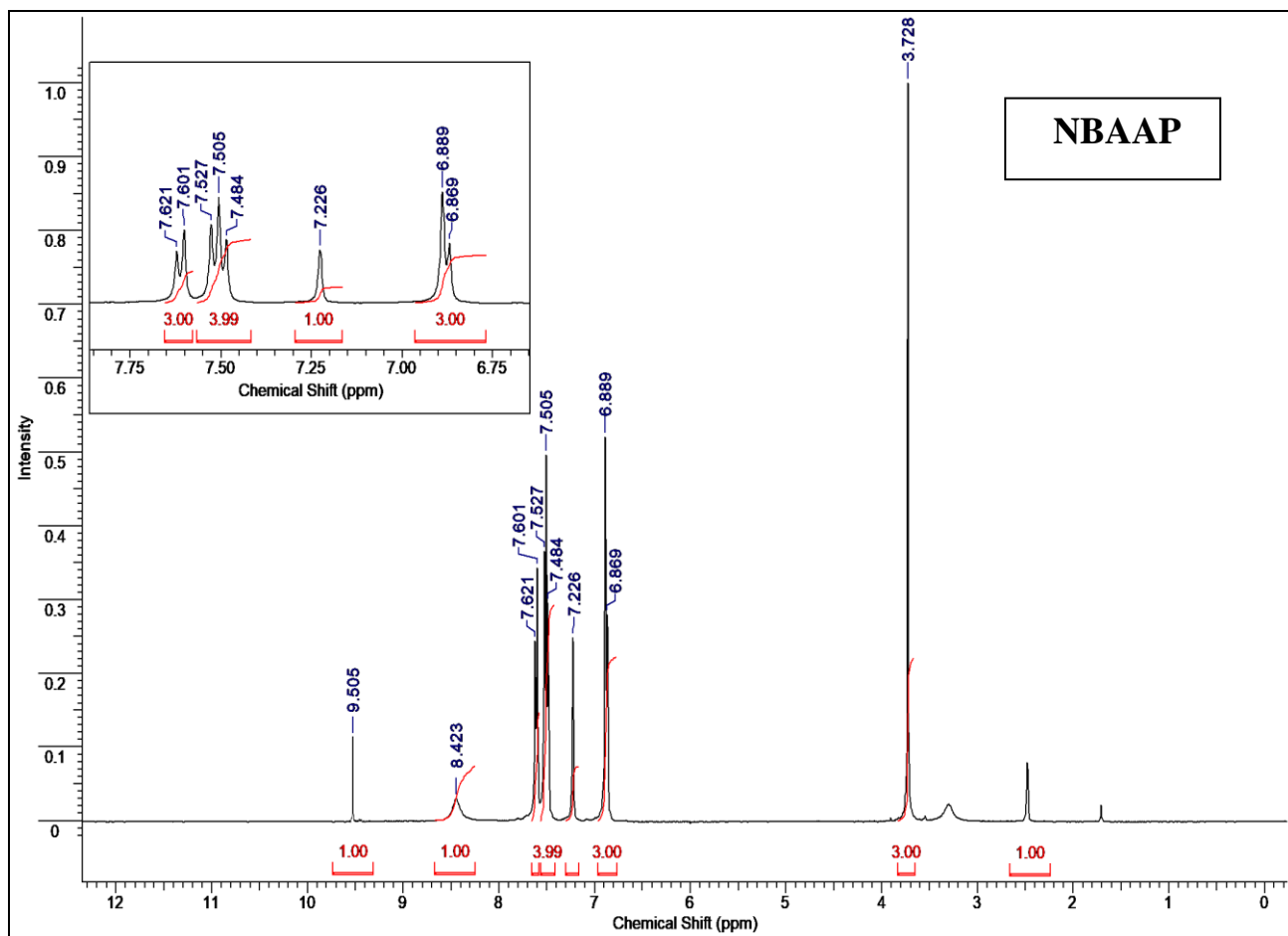
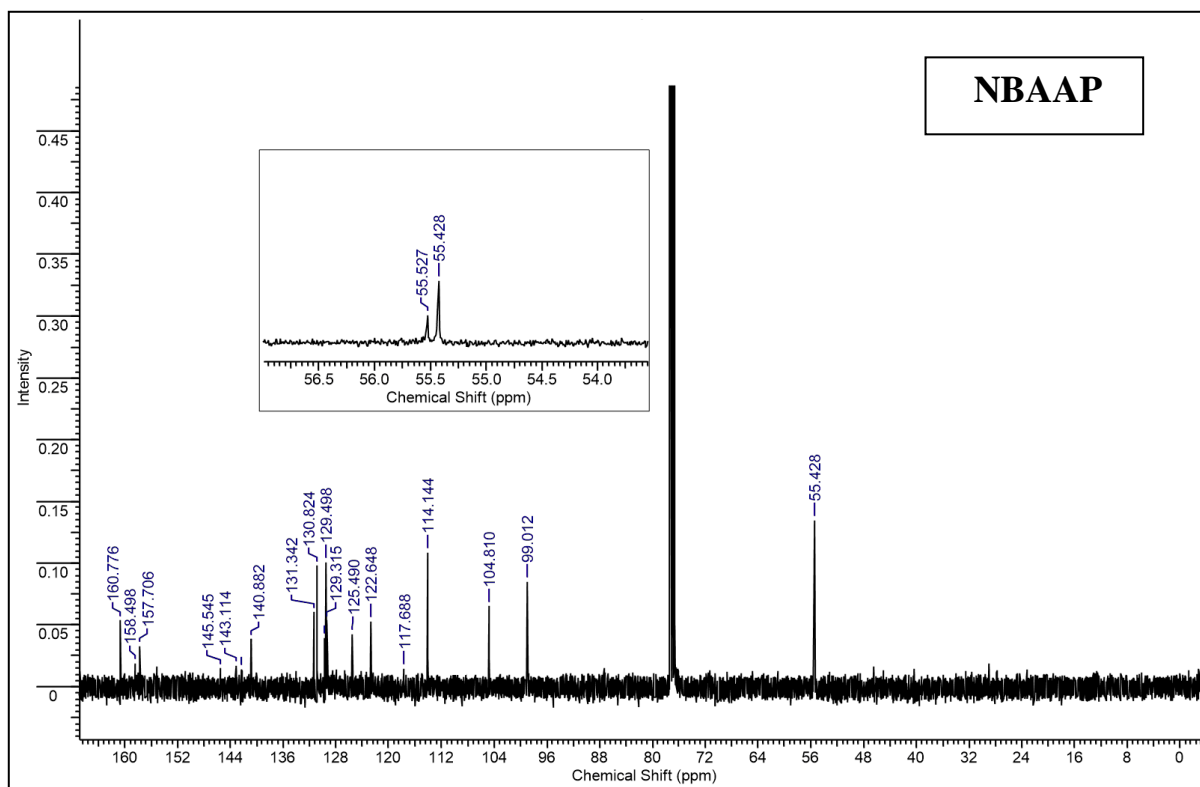
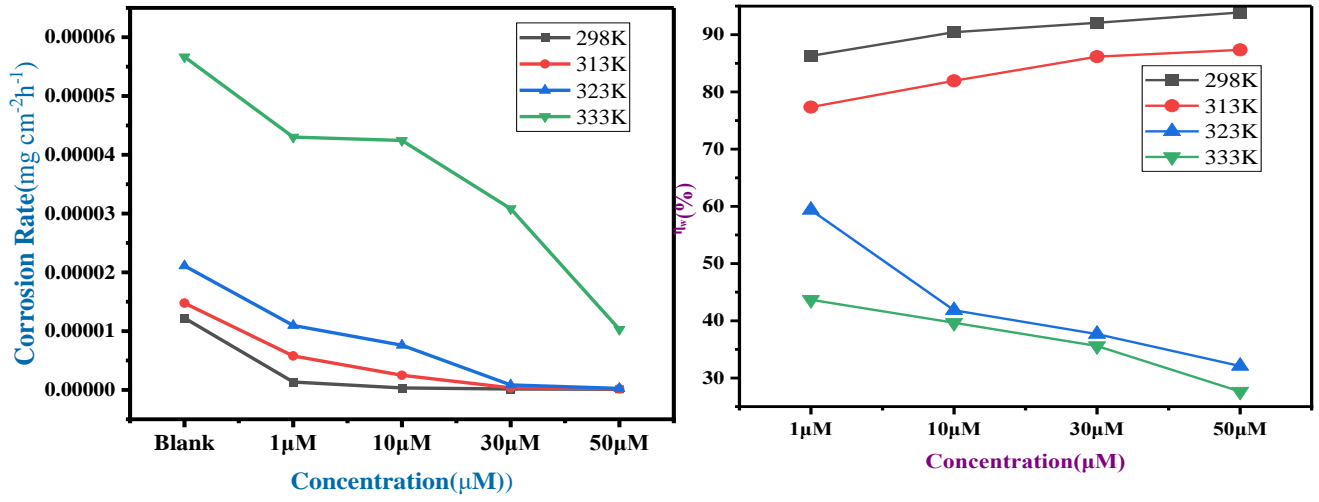


Figure S4:  $^1\text{H}$  NMR Spectrum of 4-[(4-Nitrobenzylidene)-amino]-antipyrine (4-NBAAP).



**Figure S5:  $^{13}\text{C}$  NMR Spectrum of 4-[(4-Nitrobenzylidene)-amino]-antipyrine (4-NBAAP)**



**Figure S6: Corrosion parameters of mild steel in 1M HCl in different inhibitor concentration at different temperatures.**





**Figure S7: Weight loss measurement process and fresh crystals of 4-[(4-Nitrobenzylidene)-amino]-antipyrine (4-NBAAP).**