

## **Supplementary data**

**Synthesis and evaluation of novel series of Schiff base cationic  
surfactants as corrosion Inhibitors for Carbon Steel in  
Acidic/Chloride Media: experimental and theoretical investigations**

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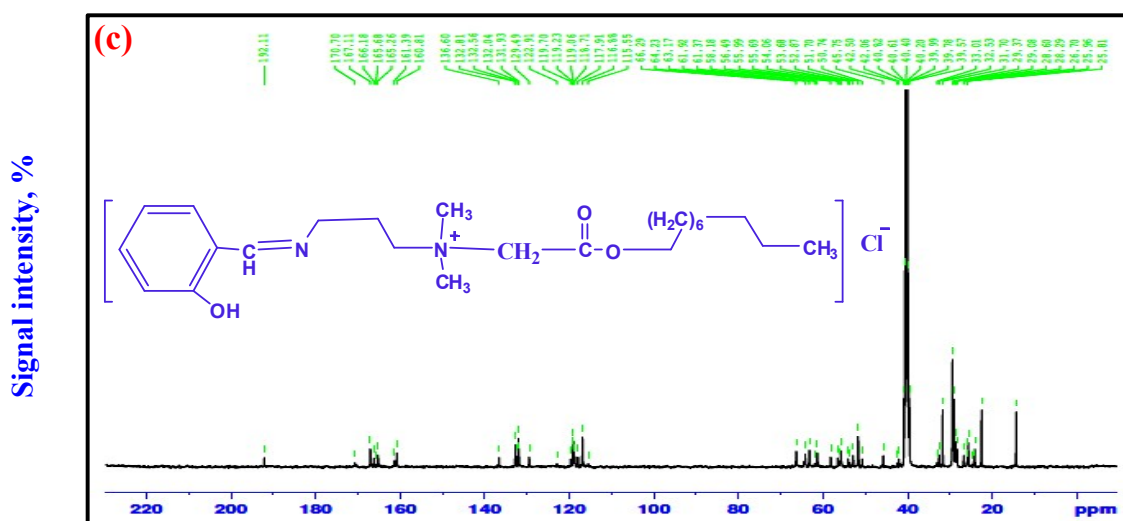
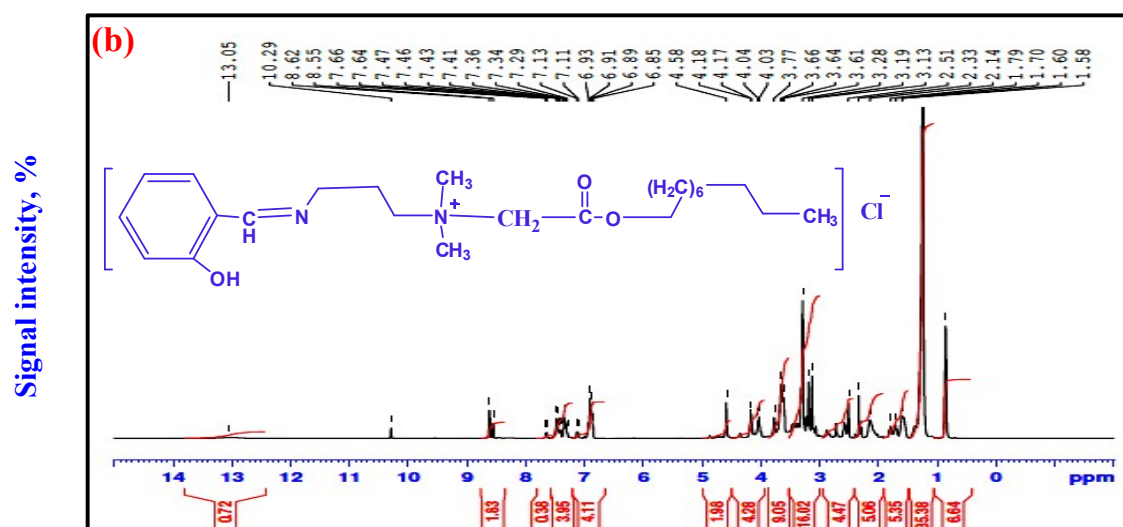
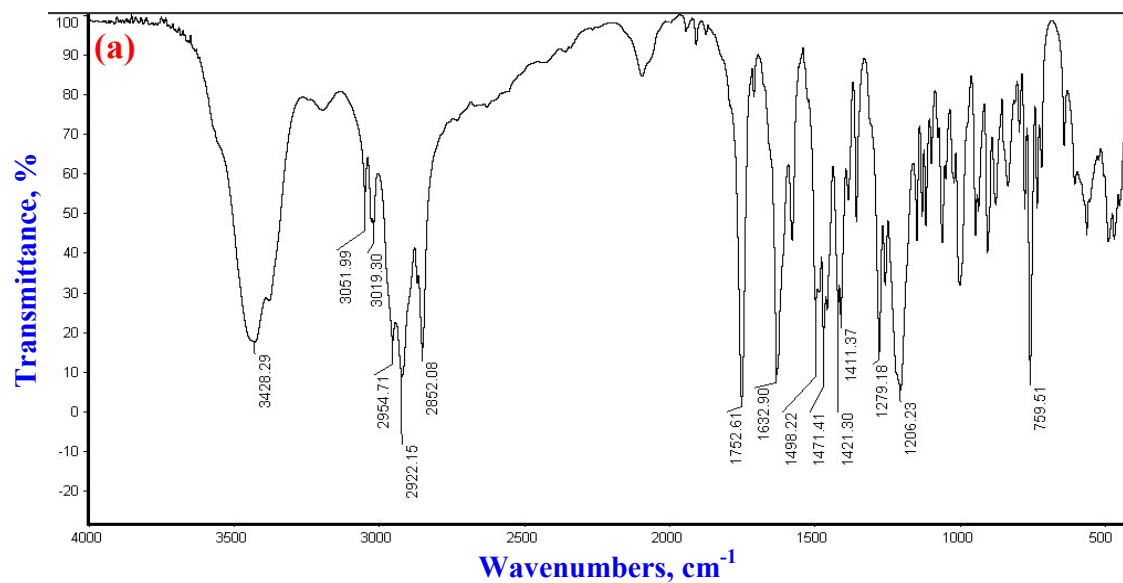
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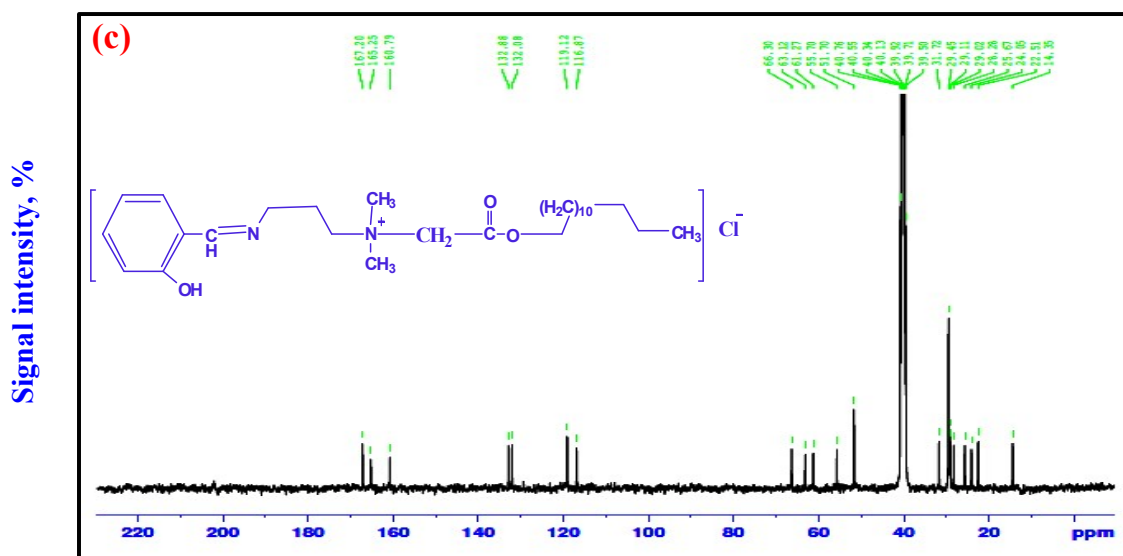
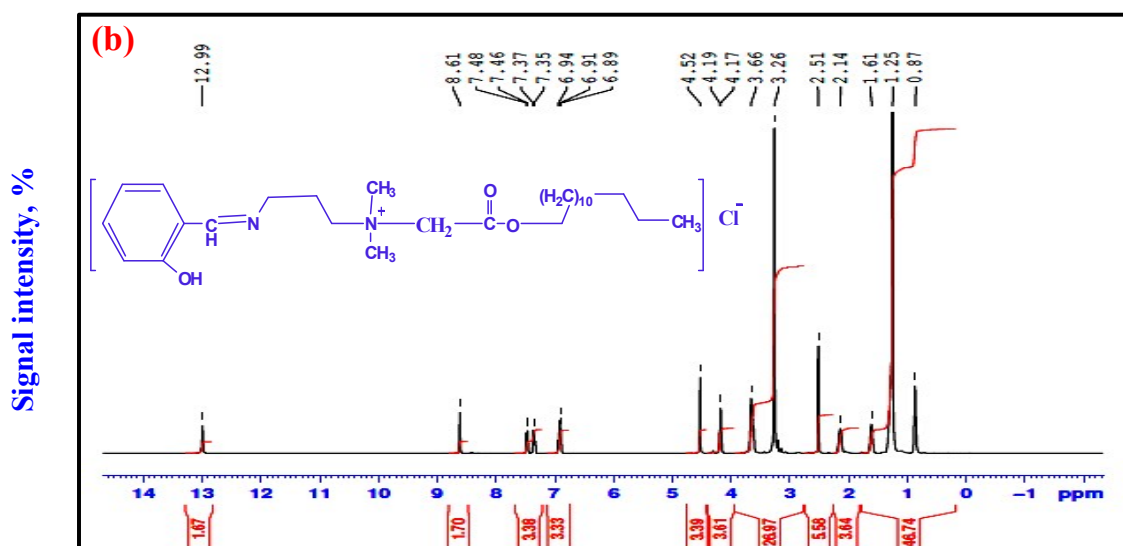
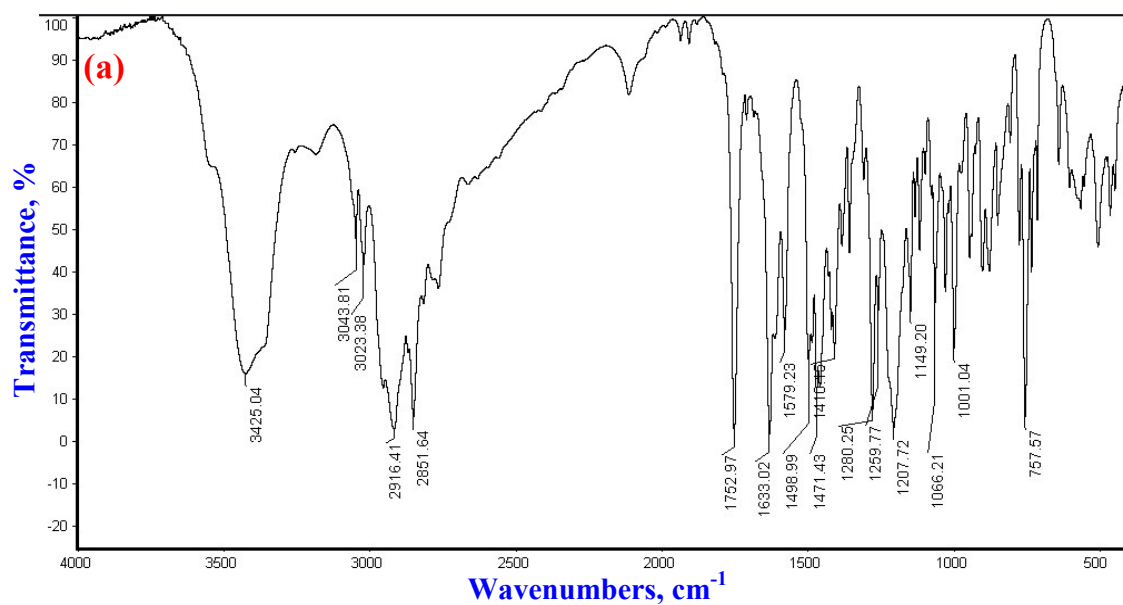
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**Figure S1:** FT-IR (a)  $^1\text{H-NMR}$  (b) and  $^{13}\text{C-NMR}$  (c) spectra of 3-((2-hydroxybenzylidene) amino)-N,N-dimethyl-N-(2-oxo-2-(decyloxy)ethyl) propan-1- ammonium chloride [CSSB-10].



**Figure S2:** FT-IR (a)  $^1\text{H-NMR}$  (b) and  $^{13}\text{C-NMR}$  (c) spectra of ((2-hydroxybenzylidene) amino)-N,N-dimethyl-N-(2-oxo-2-(tetradecyloxy) ethyl) propan-1-ammonium chloride [CSSB-14].