

## Synthesis, characterization and preliminary antifungal activity of some Co(II) and Zn(II) complexes derived from Oximes of 2-Acetyl aromatic heterocycles

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### Supplementary Data (Supporting Information)

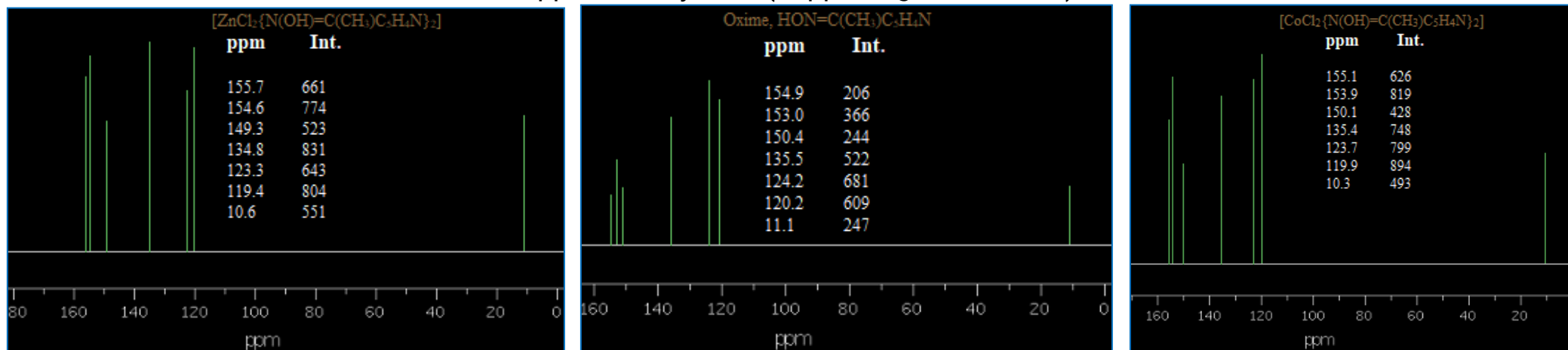
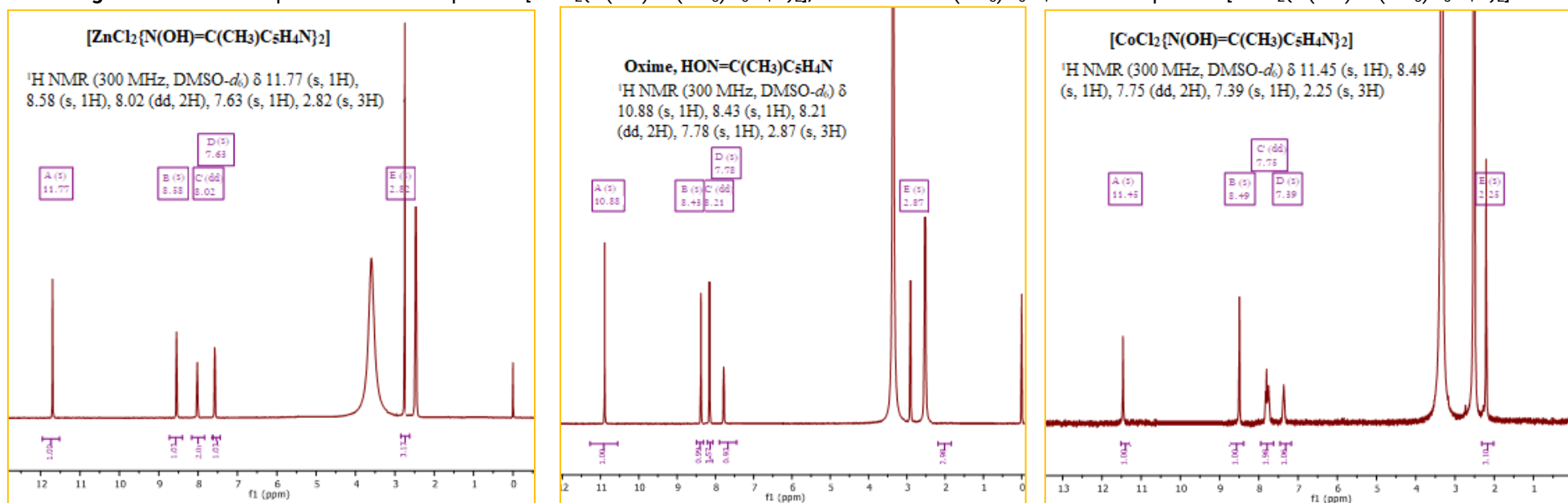
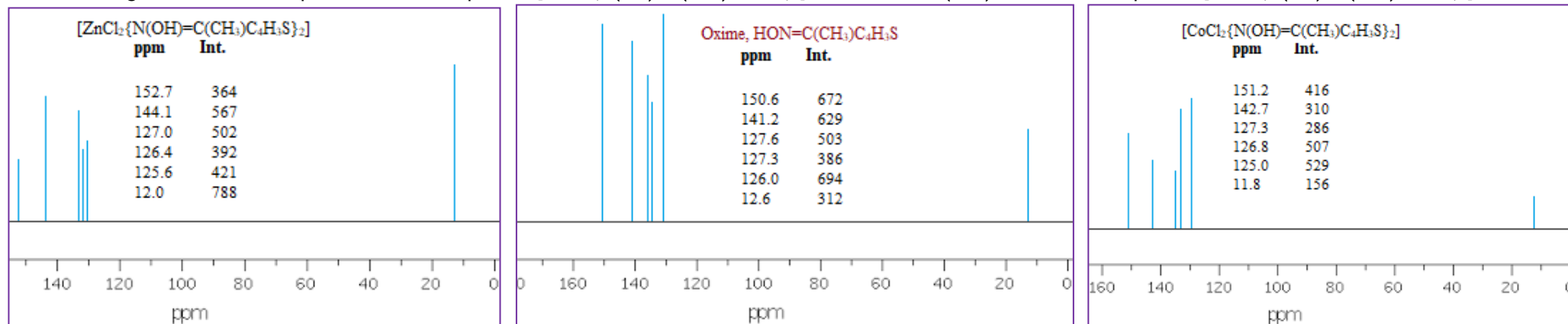


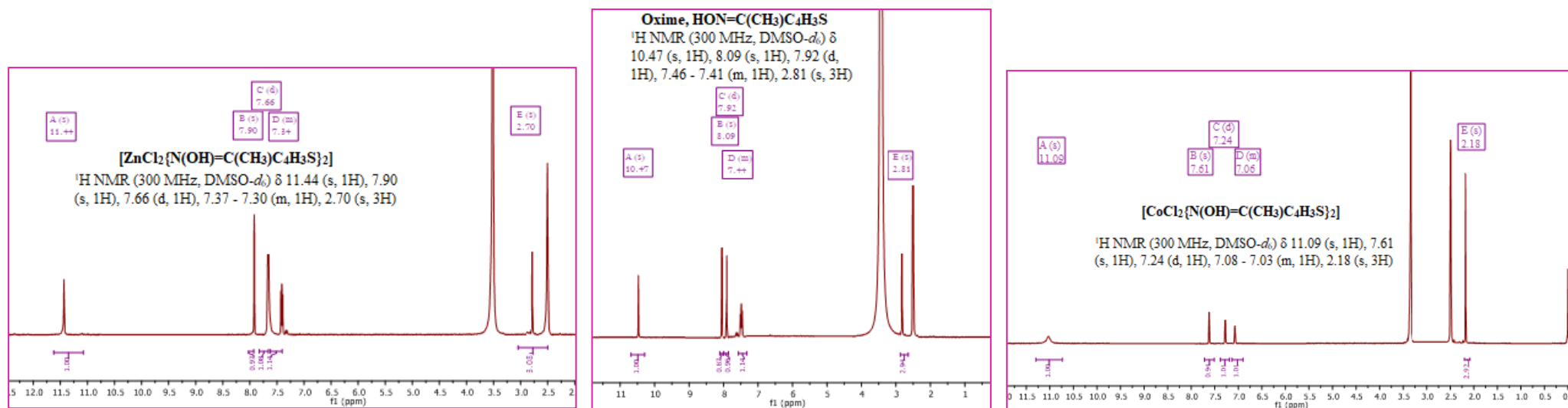
Figure S1: <sup>13</sup>C-NMR spectra for the complex **1a** [ZnCl<sub>2</sub>{N(OH)=C(CH<sub>3</sub>)C<sub>5</sub>H<sub>4</sub>N}<sub>2</sub>], oxime HON=C(CH<sub>3</sub>)C<sub>5</sub>H<sub>4</sub>N and complex **2a** [CoCl<sub>2</sub>{N(OH)=C(CH<sub>3</sub>)C<sub>5</sub>H<sub>4</sub>N}<sub>2</sub>]



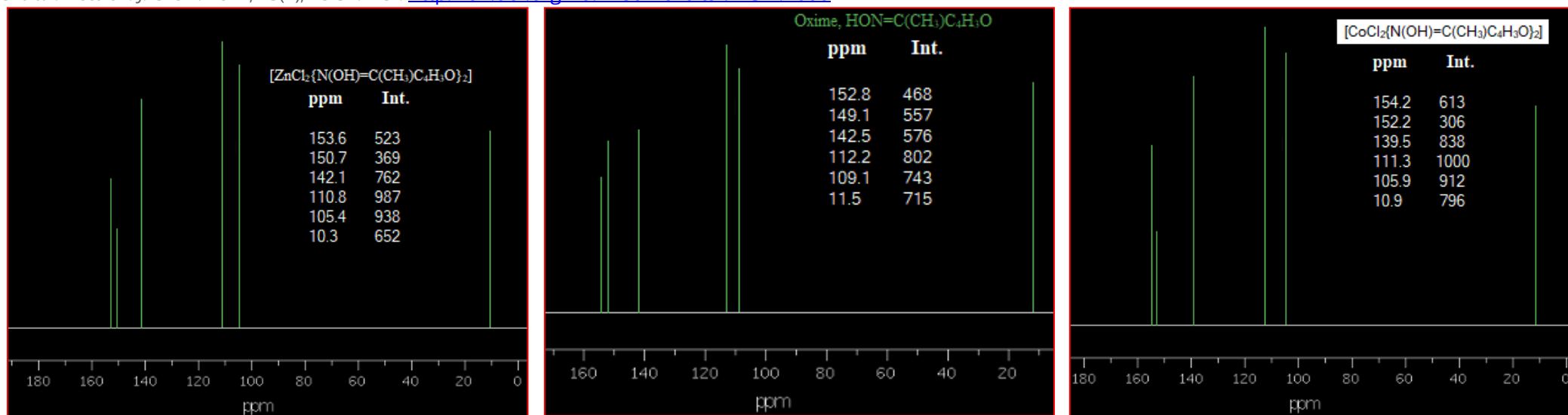
**Figure S2:** <sup>1</sup>H- NMR spectra for the complex **1a** [ZnCl<sub>2</sub>{N(OH)=C(CH<sub>3</sub>)C<sub>5</sub>H<sub>4</sub>N}<sub>2</sub>], oxime HON=C(CH<sub>3</sub>)C<sub>5</sub>H<sub>4</sub>N and complex **2a** [CoCl<sub>2</sub>{N(OH)=C(CH<sub>3</sub>)C<sub>5</sub>H<sub>4</sub>N}<sub>2</sub>]



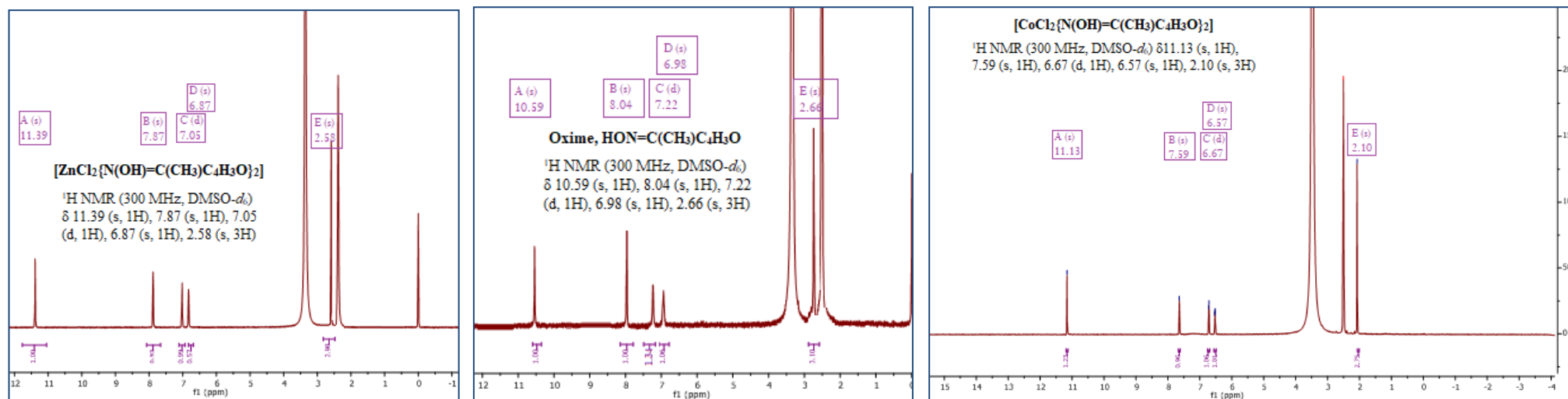
**Figure S3:** <sup>13</sup>C-NMR spectra for the complex **1b** [ZnCl<sub>2</sub>{N(OH)=C(CH<sub>3</sub>)C<sub>4</sub>H<sub>3</sub>S}<sub>2</sub>], oxime HON=C(CH<sub>3</sub>)C<sub>4</sub>H<sub>3</sub>S and complex **2b** [CoCl<sub>2</sub>{N(OH)=C(CH<sub>3</sub>)C<sub>4</sub>H<sub>3</sub>S}<sub>2</sub>]



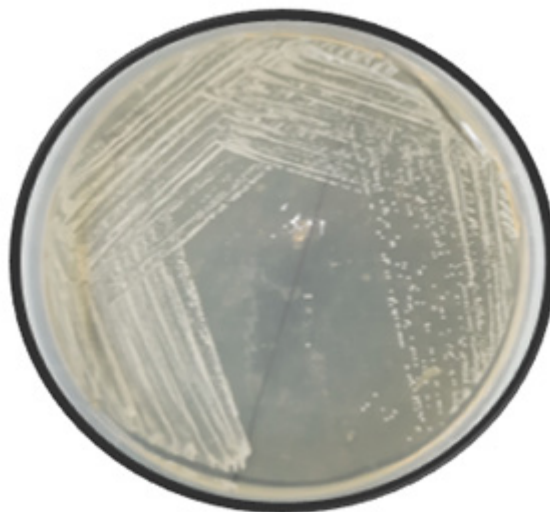
**Figure S4:** <sup>1</sup>H- NMR spectra for the complex **1b** [ZnCl<sub>2</sub>{N(OH)=C(CH<sub>3</sub>)C<sub>4</sub>H<sub>3</sub>S}<sub>2</sub>], oxime HON=C(CH<sub>3</sub>)C<sub>4</sub>H<sub>3</sub>S and complex **2b** [CoCl<sub>2</sub>{N(OH)=C(CH<sub>3</sub>)C<sub>4</sub>H<sub>3</sub>S}<sub>2</sub>]



**Figure S5:** <sup>13</sup>C-NMR spectra for the complex **1c** [ZnCl<sub>2</sub>{N(OH)=C(CH<sub>3</sub>)C<sub>4</sub>H<sub>3</sub>O}<sub>2</sub>], **oxime** HON=C(CH<sub>3</sub>)C<sub>4</sub>H<sub>3</sub>O and complex **2c** [CoCl<sub>2</sub>{N(OH)=C(CH<sub>3</sub>)C<sub>4</sub>H<sub>3</sub>O}<sub>2</sub>]



**Figure S6:** <sup>1</sup>H-NMR spectra for the complex **1c** [ZnCl<sub>2</sub>{N(OH)=C(CH<sub>3</sub>)C<sub>4</sub>H<sub>3</sub>O}<sub>2</sub>], **oxime** HON=C(CH<sub>3</sub>)C<sub>4</sub>H<sub>3</sub>O and complex **2c** [CoCl<sub>2</sub>{N(OH)=C(CH<sub>3</sub>)C<sub>4</sub>H<sub>3</sub>O}<sub>2</sub>]



24hours grown culture of *Candida albicans* on MH agar plate.

**Figure S7:** Grown culture of *Candida albicans* after 24h