

## **SUPPORTING INFORMATION**

### **Homogeneous photochemical water oxidation with metal salophen complexes in neutral media**

Md. Ali Asraf,<sup>ad</sup> Chizoba I. Ezugwu,<sup>a</sup> C. M. Zakaria<sup>d</sup> and Francis Verpoort <sup>\*abc</sup>

<sup>a</sup> *Laboratory of Organometallics, Catalysis and Ordered Materials, State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology, Wuhan 430070, China. E-mail: [Francis.Verpoort@ghent.ac.kr](mailto:Francis.Verpoort@ghent.ac.kr), Tel.: +86 15071172245; Fax: +86 2787879468*

<sup>b</sup> *National Research Tomsk Polytechnic University, Lenin Avenue 30, 634050 Tomsk, Russian Federation.*

<sup>c</sup> *Ghent University, Global Campus Songdo, 119 Songdomunhw-Ro, Yeonsu-Gu, Incheon, Korea.*

<sup>d</sup> *Department of Chemistry, Rajshahi University, Rajshahi-6205, Bangladesh.*

#### **Contents:**

Figure S1: <sup>1</sup>H-NMR spectrum of the salophen ligand, **Slp**

Figure S2: <sup>13</sup>C-NMR spectrum of the salophen ligand, **Slp**

Figure S3: FT-IR spectrum of the salophen ligand, **Slp**

Figure S4: <sup>1</sup>H-NMR spectrum of the salophen Ni(II) complex, **1**

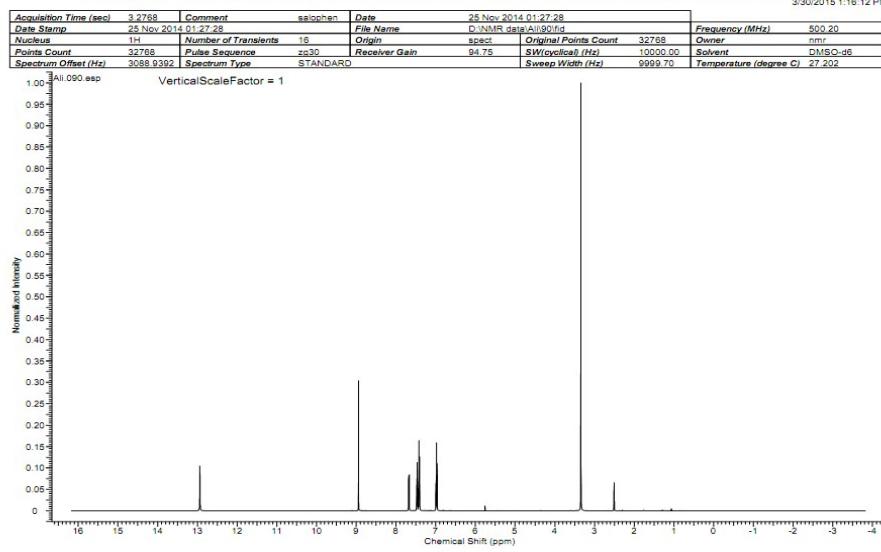
Figure S5: <sup>13</sup>C-NMR spectrum of the salophen Ni(II) complex, **1**

Figure S6: FT-IR spectrum of the salophen Ni(II) complex, **1**

Figure S7: FT-IR spectrum of the salophen Cu(II) complex, **2**

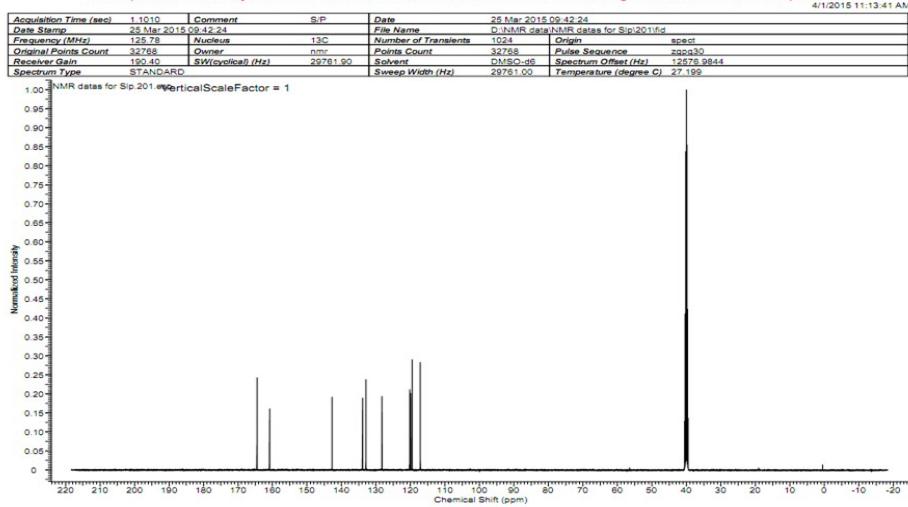
Figure S8: FT-IR spectrum of the salophen Mn(II) complex, **3**

3/30/2015 1:16:12 PM

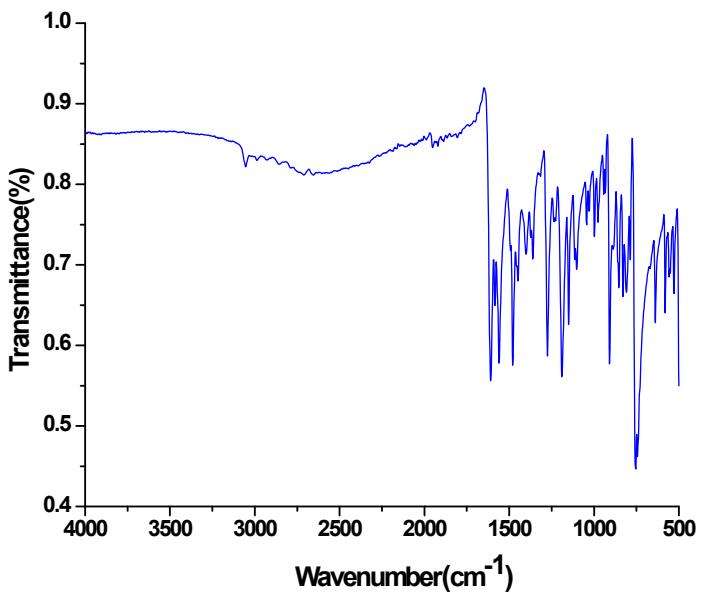


**Figure S1:** <sup>1</sup>H-NMR spectrum of the salophen ligand, Slp

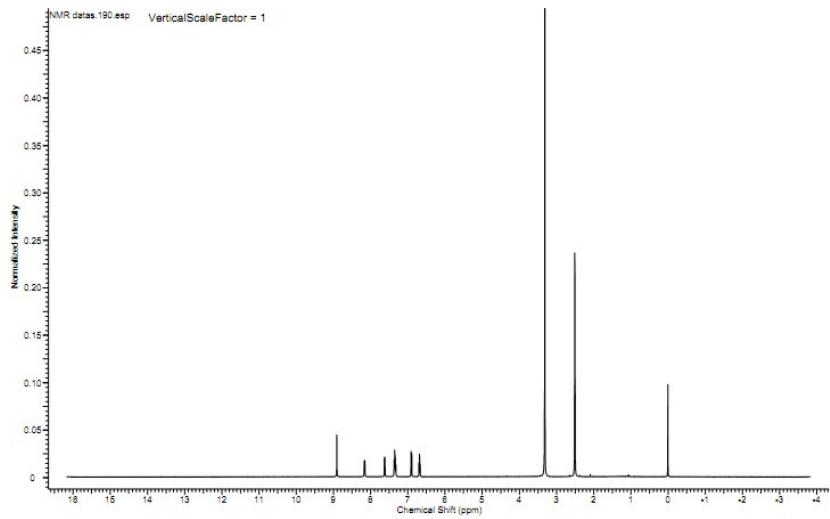
4/1/2015 11:13:41 AM



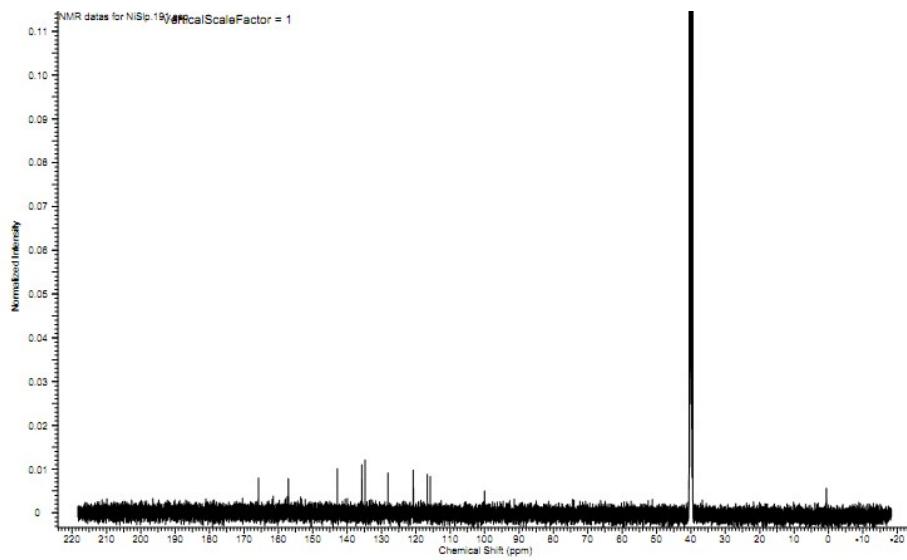
**Figure S2:** <sup>13</sup>C-NMR spectrum of the salophen ligand, Slp



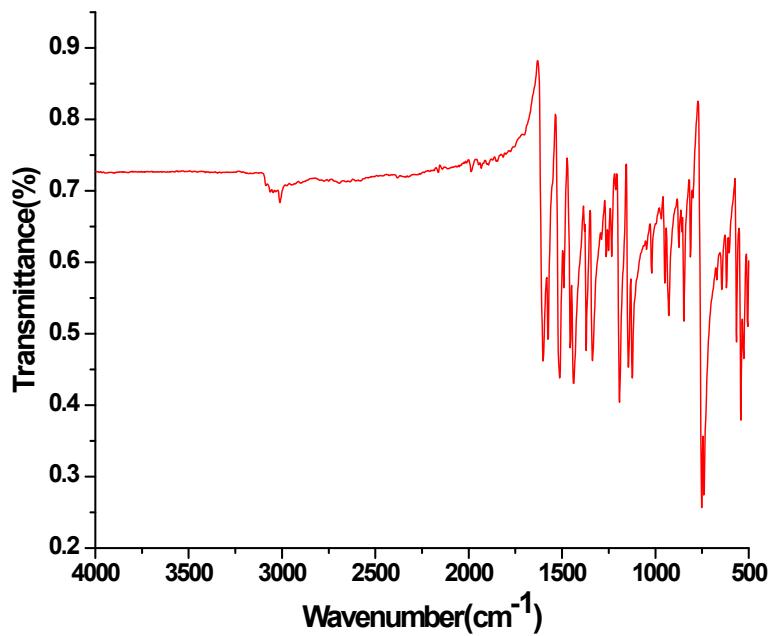
**Figure S3:** FT-IR spectrum of the salophen ligand, Slp



**Figure S4:** <sup>1</sup>H-NMR spectrum of the salophen Ni(II) complex, 1



**Figure S5:** <sup>13</sup>C-NMR spectrum of the salophen Ni(II) complex, 1



**Figure S6:** FT-IR spectrum of the salophen Ni(II) complex, 1

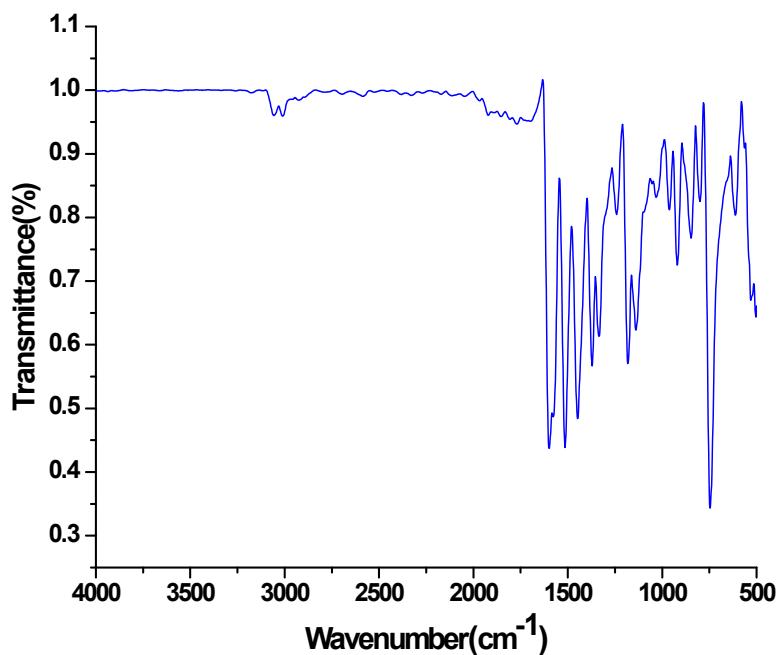


Figure S7: FT-IR spectrum of the salophen Cu(II) complex, 2

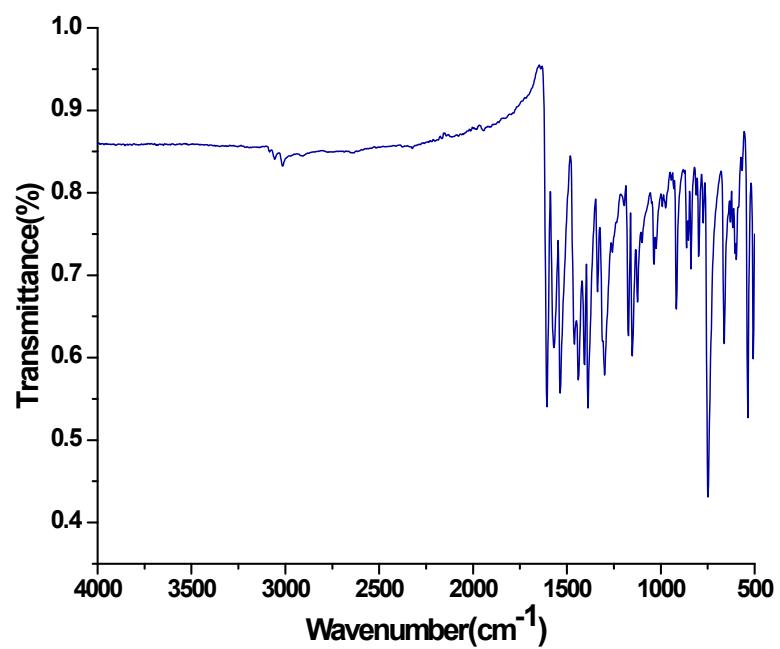


Figure S8: FT-IR spectrum of the salophen Mn(II) complex, 3