Electronic Supplementary Information

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Titile: Acid-base equilibria of various oxidation states of aqua-ruthenium complexes with 1,10-phenanthroline-5,6-dione in aqueous media

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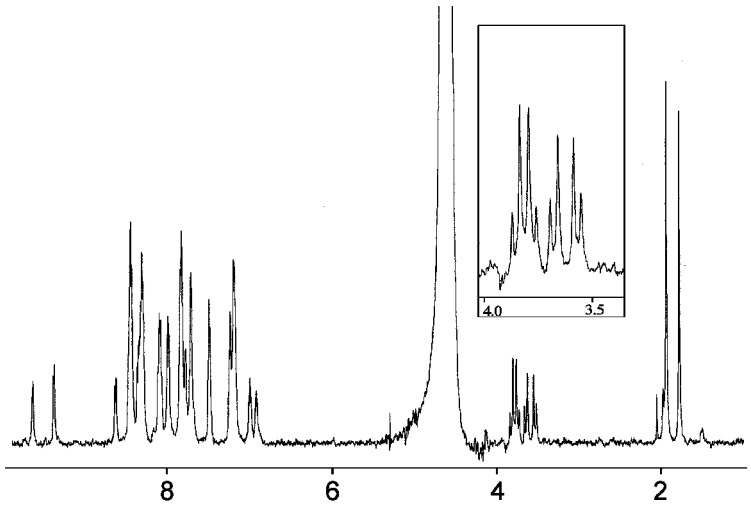

Fig. S1. ^{1}H NMR spectrum of **[1]**$(ClO_4)_2$ in D_2O.

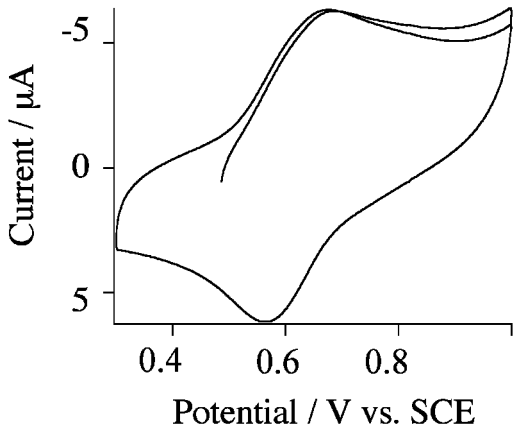

Fig. S2. Cyclic voltammogram of [**1**]$(ClO_4)_2$ in 0.1 mol dm^{-3} phosphate buffer (pH 6.37).

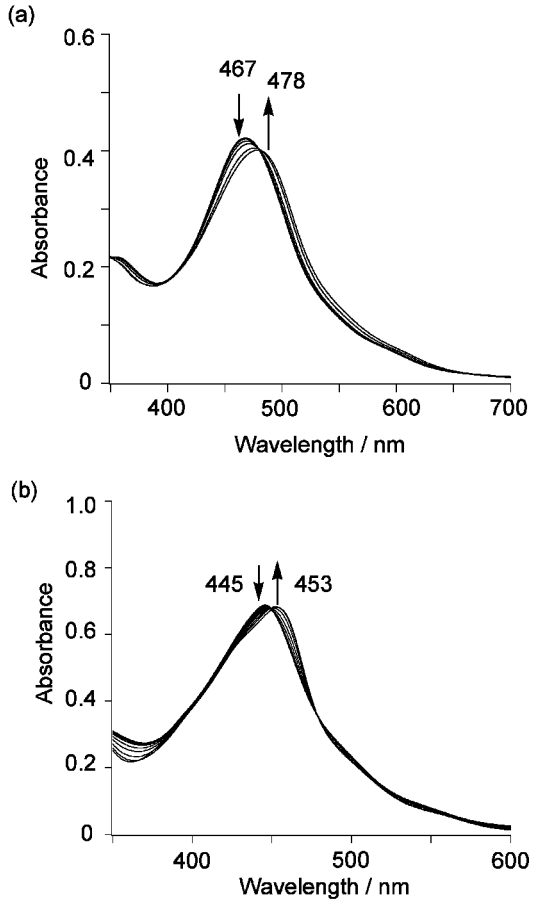

Fig. S3. pH Dependent UV-vis spectra of $[\mathbf{2}]^{2+}$ in H_2O (a) and that in CH_3CN/H_2O (1:9 v/v) (b). The arrows in the figure indicate the direction of the changes by increasing of pH.

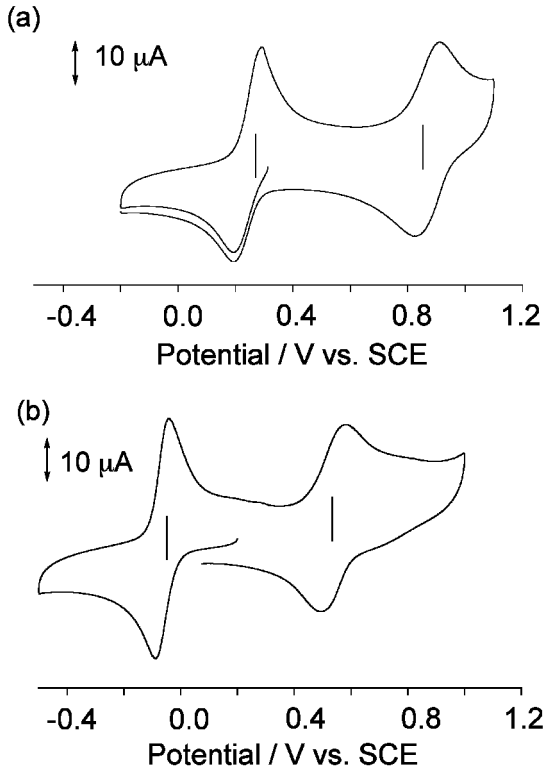

Fig. S4. Cyclic voltammograms of [**2**]$(ClO_4)_2$ in 0.1 mol dm^{-3} phosphate buffer solutions at pH 1.67 (a), and 7.87 (b).