

Supporting information for the manuscript B813363H for Dalton Transactions.

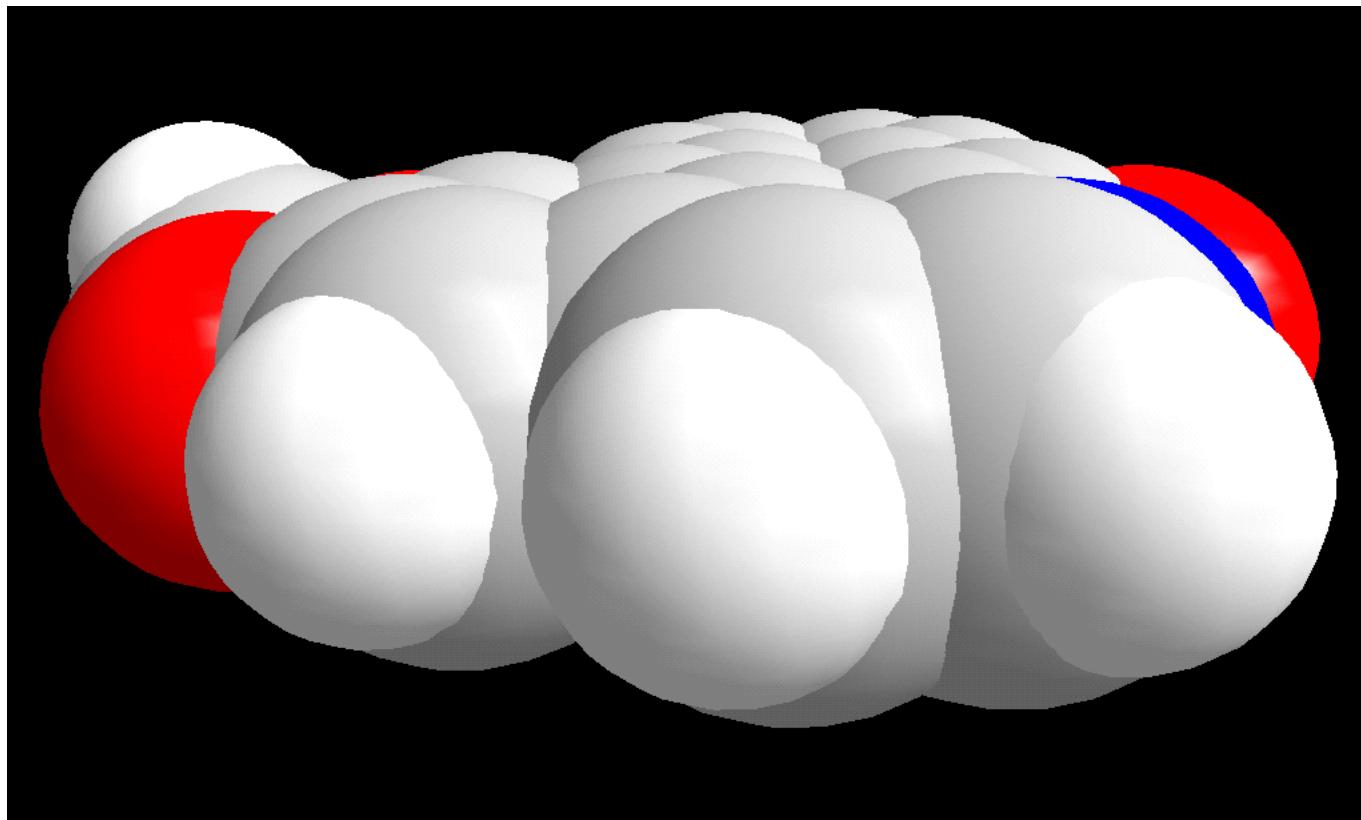


Figure S1 Space filling drawing of Liriodenine.

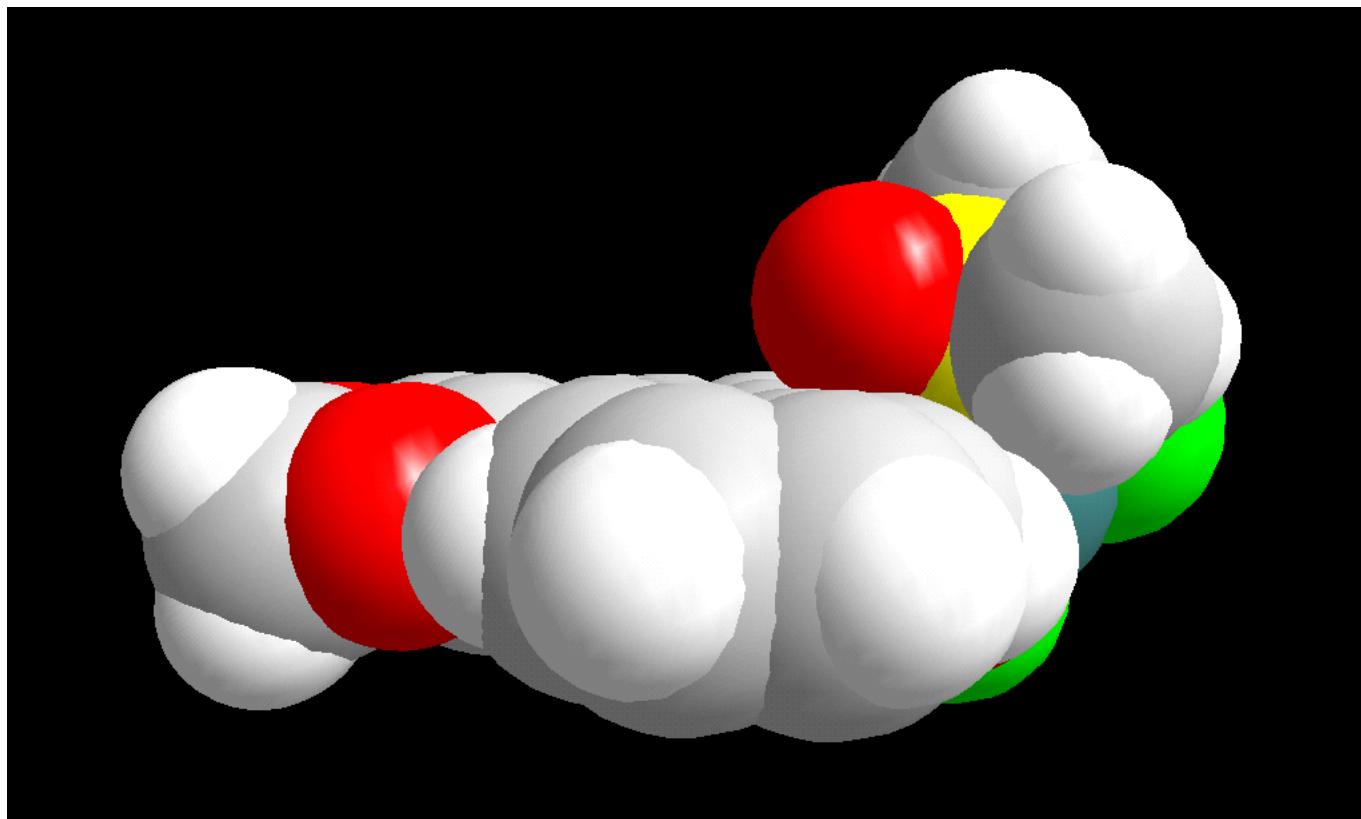


Figure S2 Space filling drawing of *cis*-[Pt(L)(DMSO)Cl<sub>2</sub>] (2).

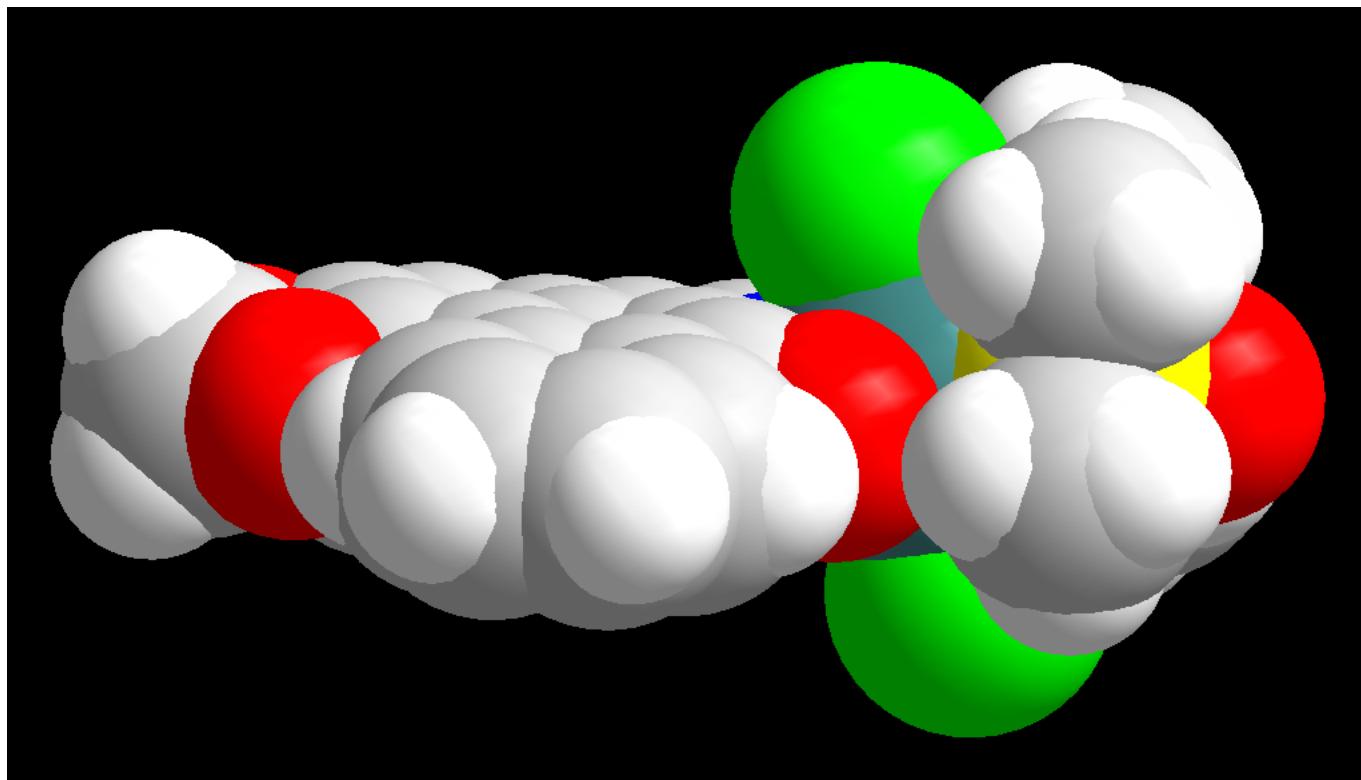
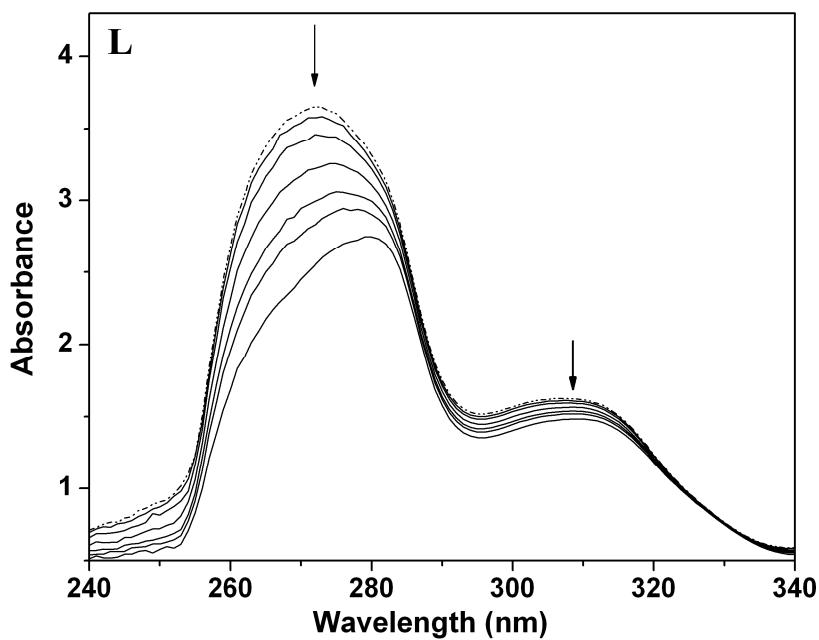


Figure S3 Space filling drawing of *cis*-[Ru(L)(DMSO)Cl<sub>2</sub>]·1.5H<sub>2</sub>O (**3**).



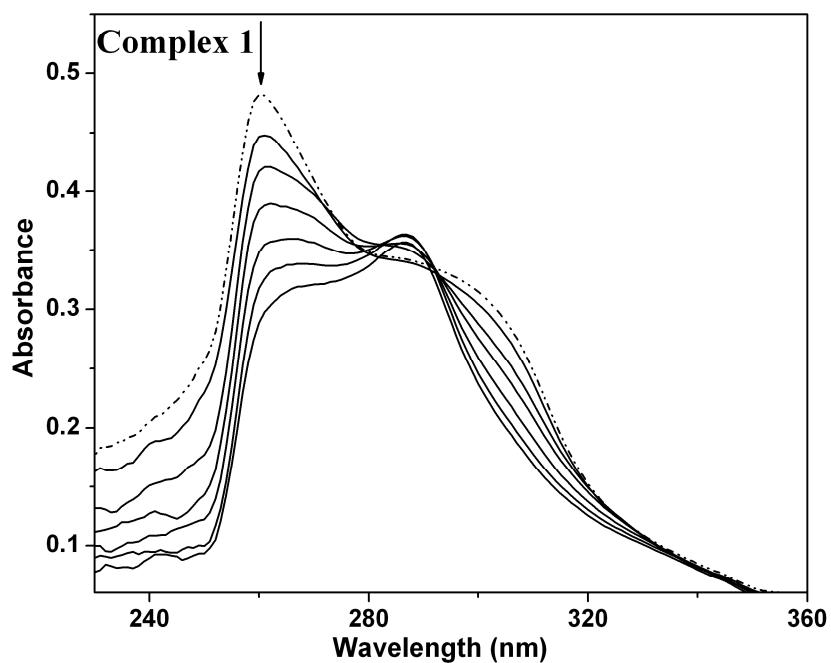
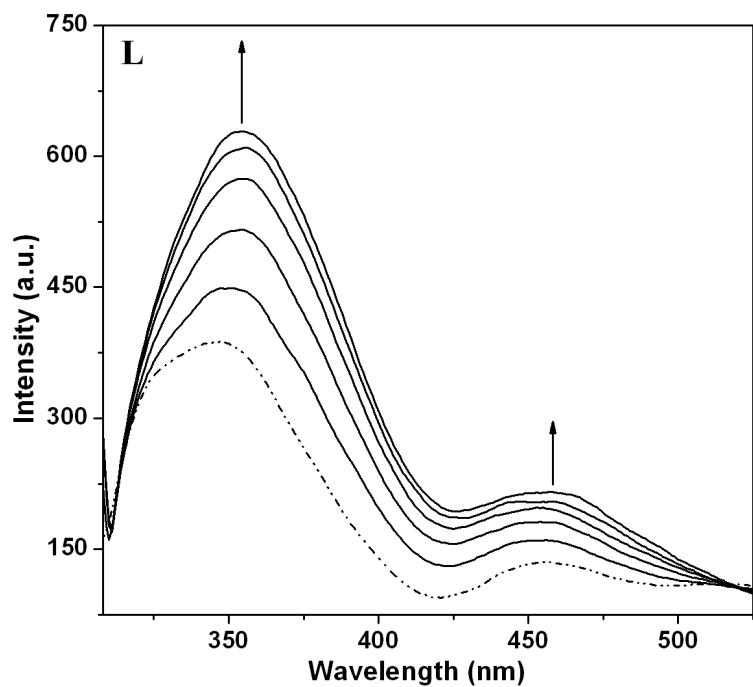


Figure S4 UV-Vis absorption spectra of **L** and complex **1** in DMSO by titration with increasing concentration of ct-DNA.

(a)



(b)

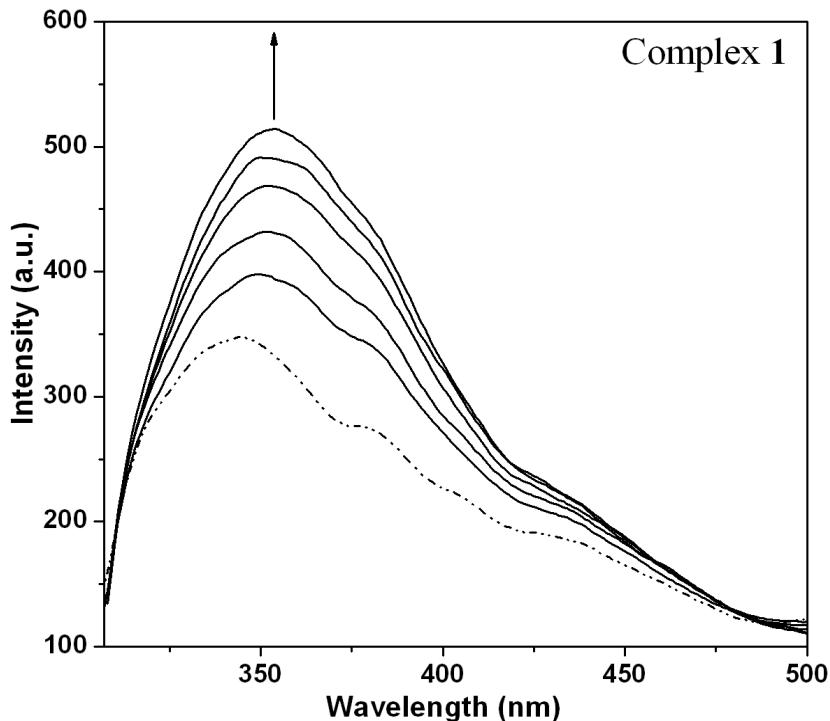
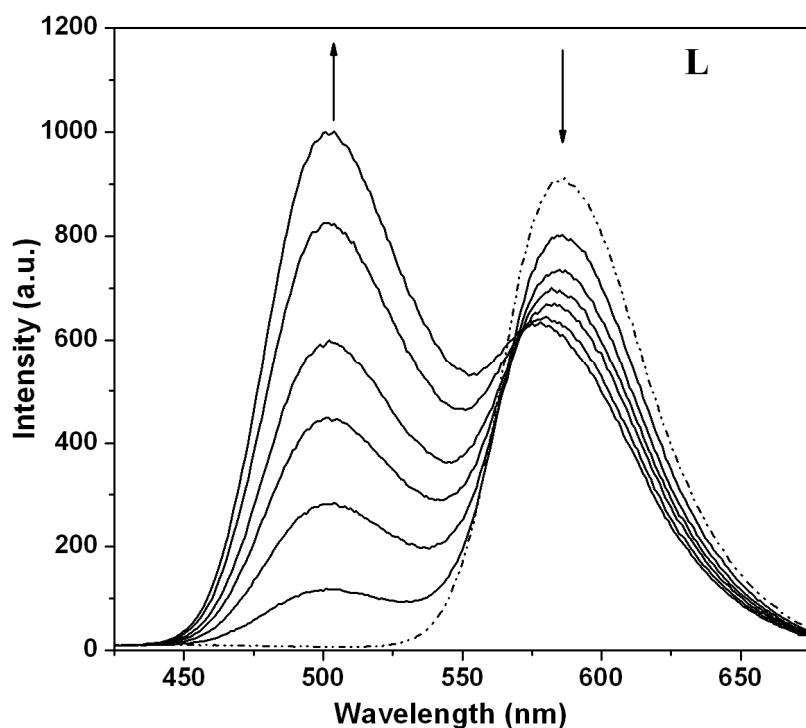


Figure S5. Fluorescence emission spectra of **L** and complex **1** in DMSO by titration with increasing concentration of ct-DNA. In each graph, the single dashed line (---) was the original emission curve of complex in the absence of ct-DNA. The solid lines (—) corresponded to emission curves of complex binding with ct-DNA of increasing concentration.

(a)



(b)

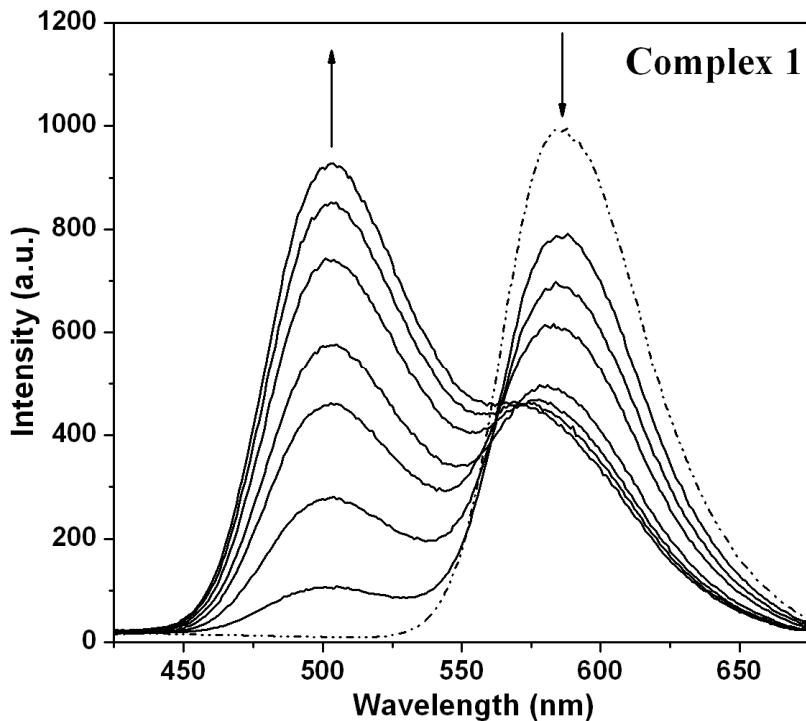
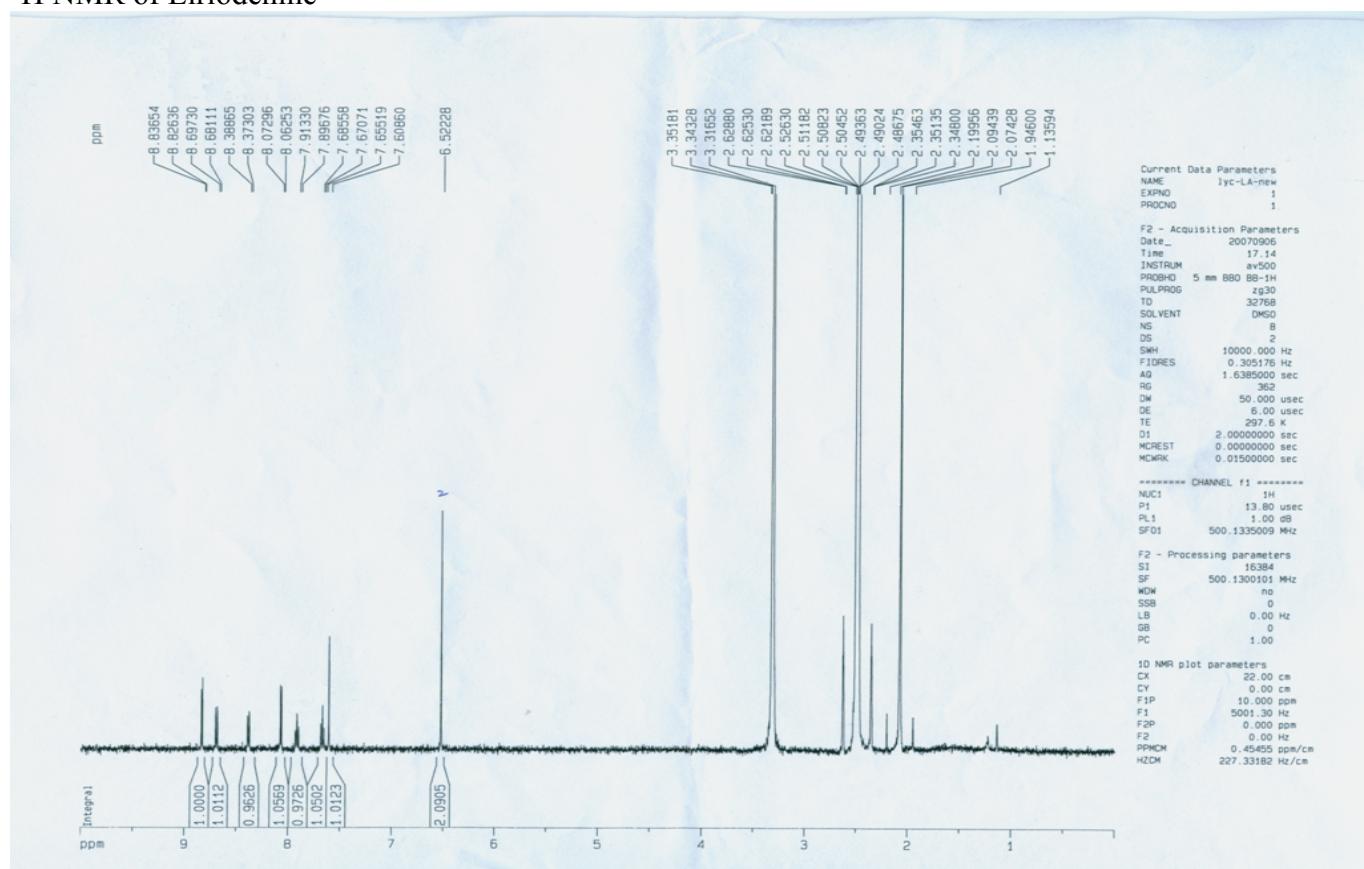
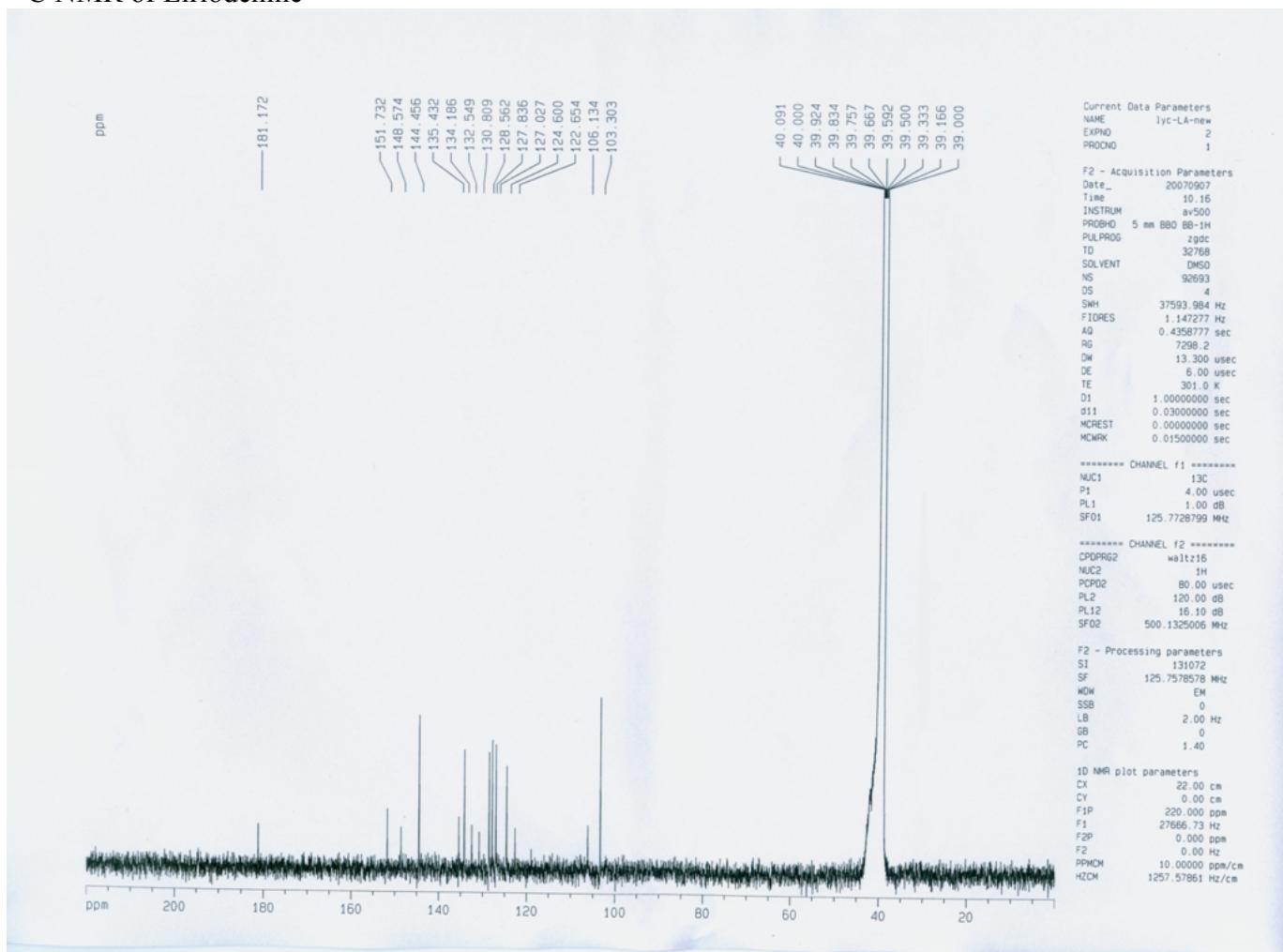


Figure S6. Emission quenching spectra of the EB-DNA system by titration with **L** or complex **1** with increasing concentration. In each graph, the single dashed line (---) was the original characteristic emission of EB-DNA system. The solid lines (—) corresponded to emission spectra of decreasing intensity by titration of complexes with increasing concentration. Total [EB]/[compound] ratios are: 1:3.3 for **L**, 1:5 for **1**.

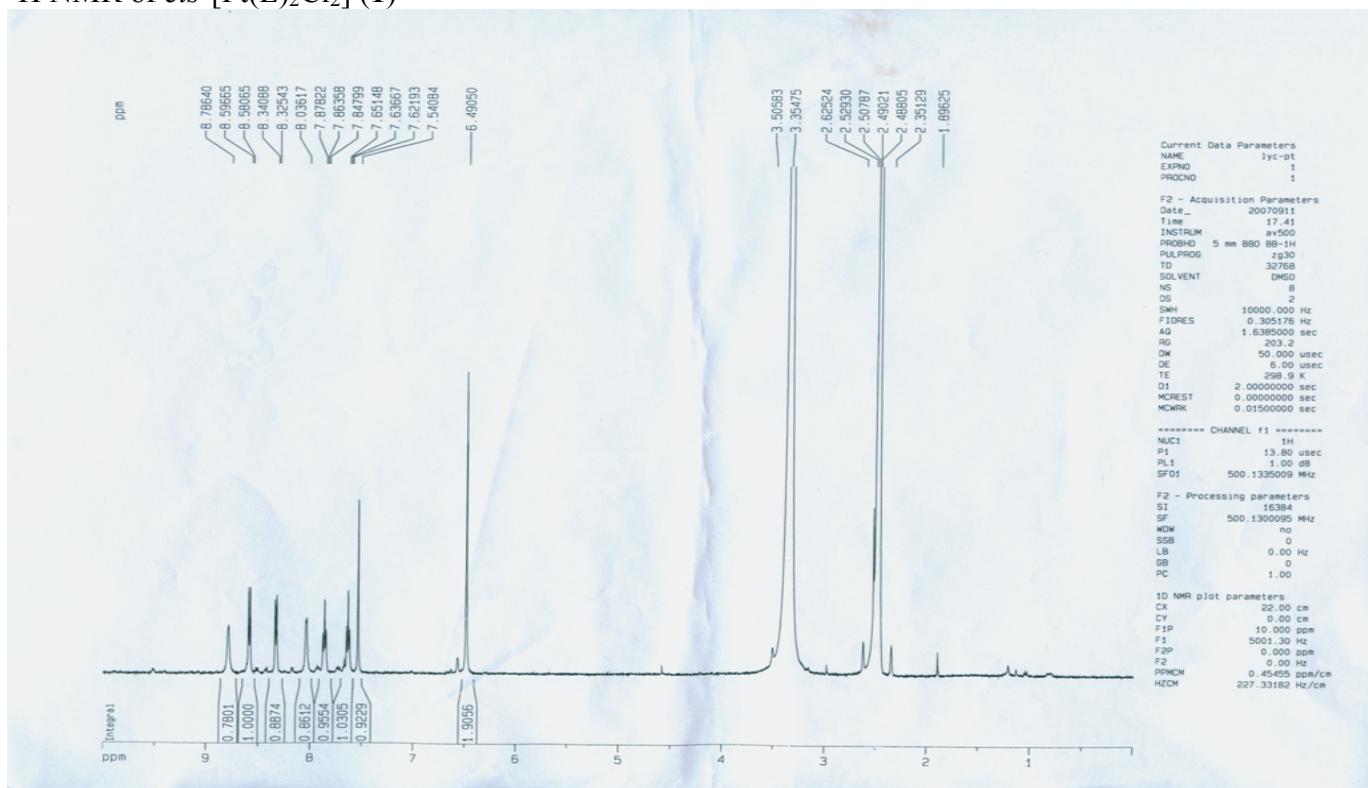
### <sup>1</sup>H NMR of Liriodenine



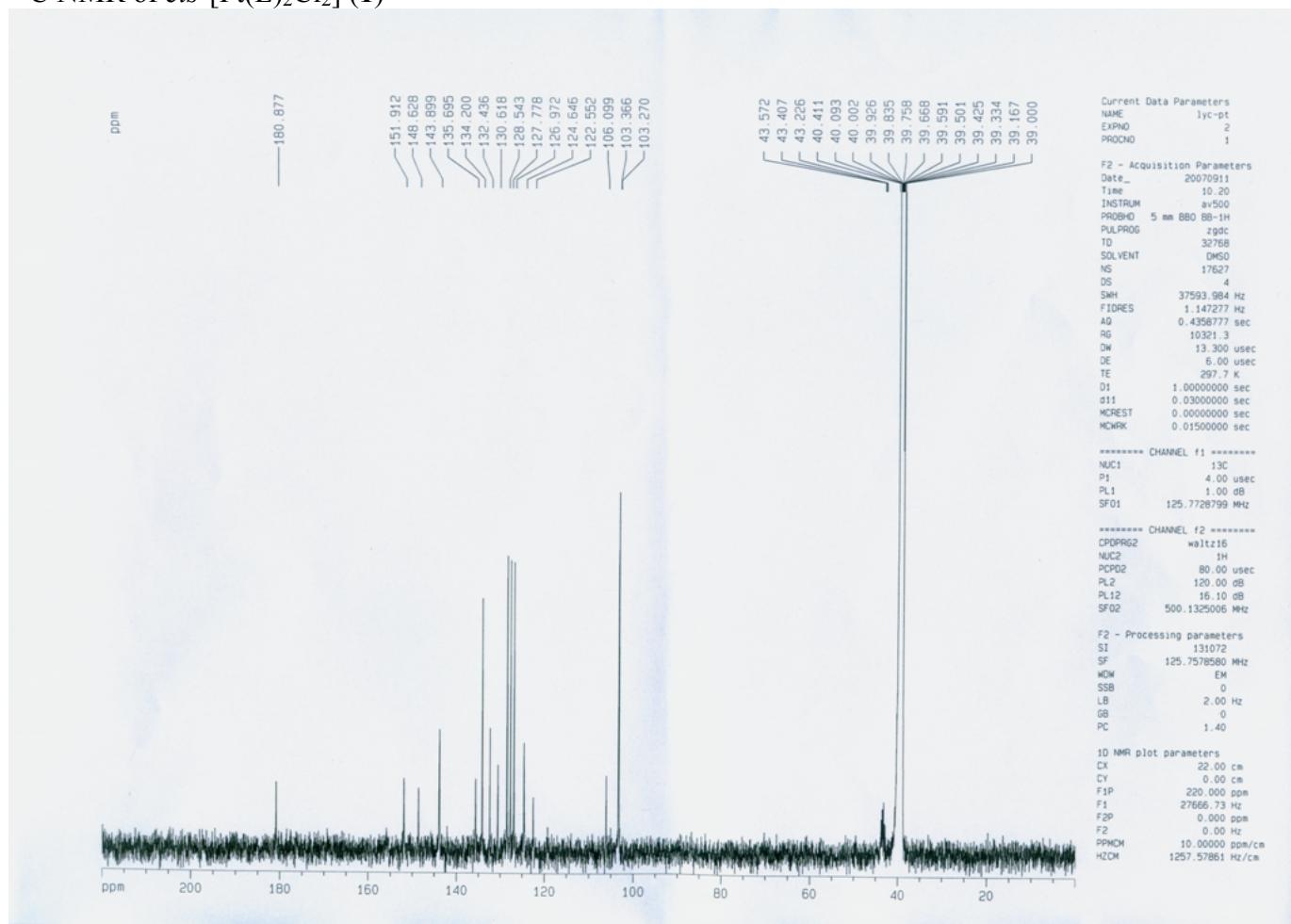
<sup>13</sup>C NMR of Liriiodenine



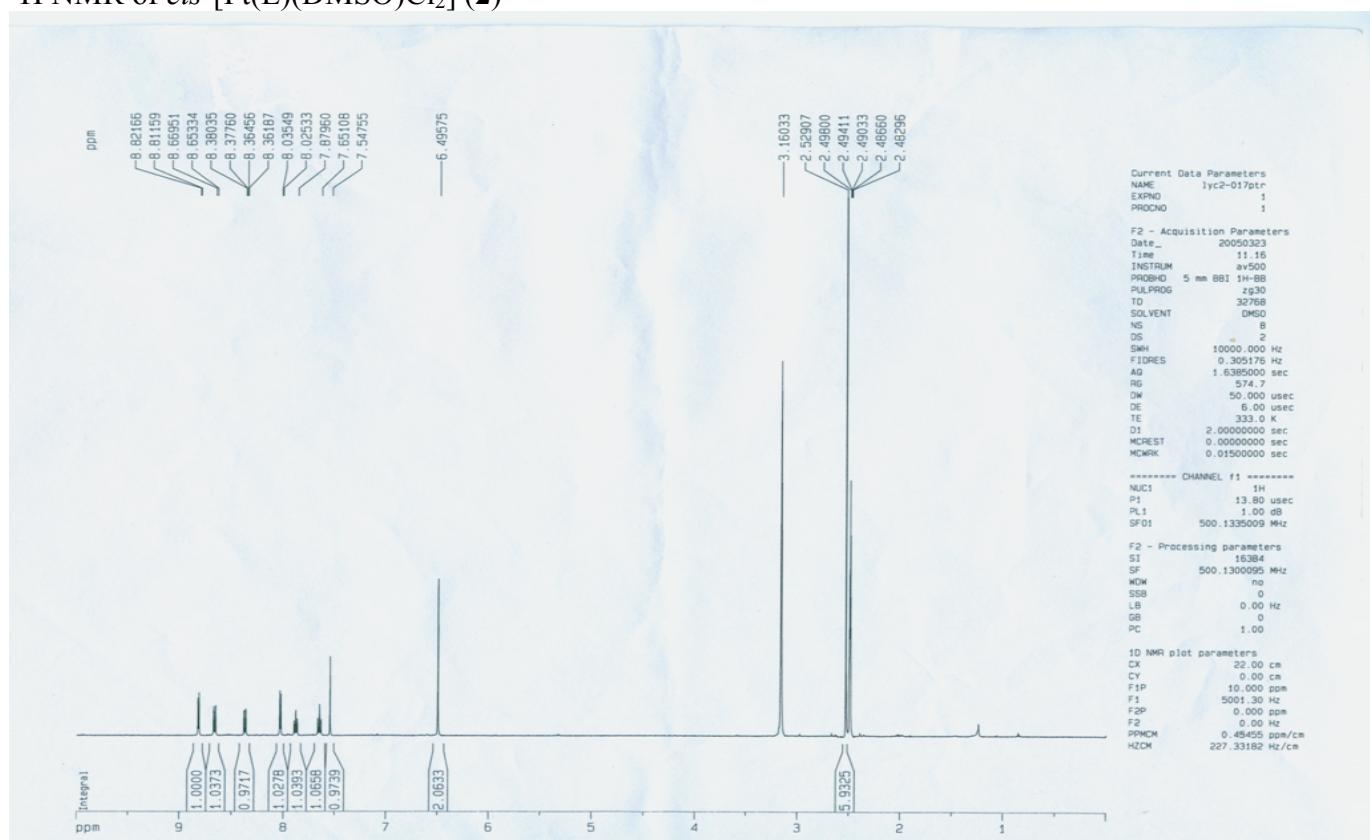
<sup>1</sup>H NMR of *cis*-[Pt(L)<sub>2</sub>Cl<sub>2</sub>] (**1**)



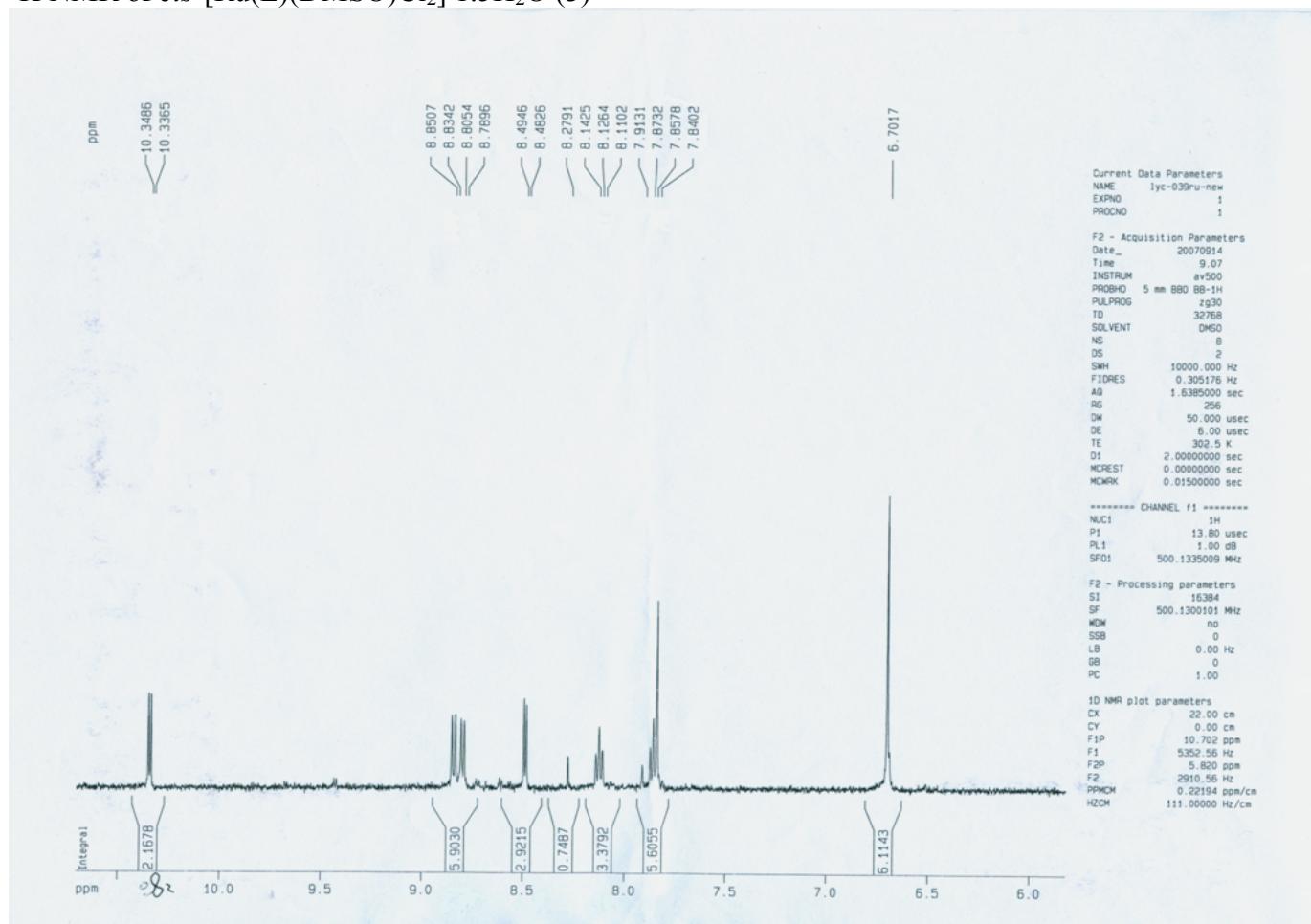
<sup>13</sup>C NMR of *cis*-[Pt(L)<sub>2</sub>Cl<sub>2</sub>] (**1**)



<sup>1</sup>H NMR of *cis*-[Pt(L)(DMSO)Cl<sub>2</sub>] (**2**)



<sup>1</sup>H NMR of *cis*-[Ru(L)(DMSO)Cl<sub>2</sub>]·1.5H<sub>2</sub>O (**3**)



Comments on the 670188.cif (for *cis*-[Ru(L)(DMSO)Cl<sub>2</sub>]·1.5H<sub>2</sub>O (**3**)):

1. The hydrogen atoms on the water molecules can not be located because the diffraction of H atom is very weak and the single crystal X-ray diffraction method can not accurately locate the position of H atom. In this case, we can not find the hydrogen atoms on the water molecules from the successive difference Fourier synthesis.
2. The short contact O6···O7 (the distance of O6···O7 is 2.70 Å is normal) mainly results from one of two water molecules is disorder, only has 0.5 occupancy, which position is not been determined accurately. In addition, the distance of O6···O7 is 2.70 Å is normal range for hydrogen bond involving water molecules.