Supporting Information

A highly selective ratiometric bifunctional fluorescence probe for Hg^{2+} and F^- ions

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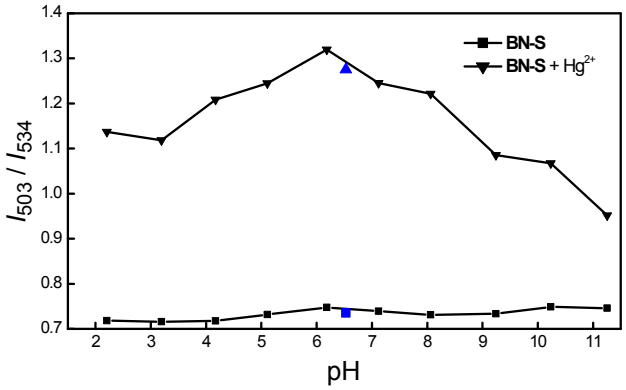
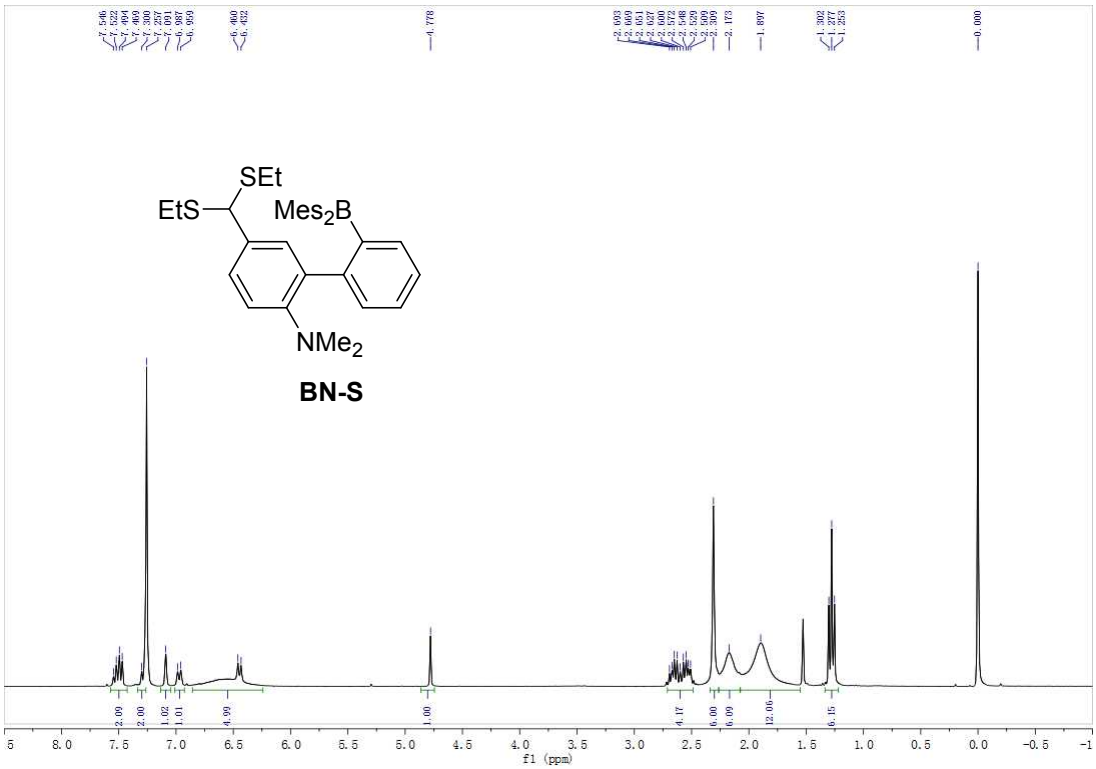
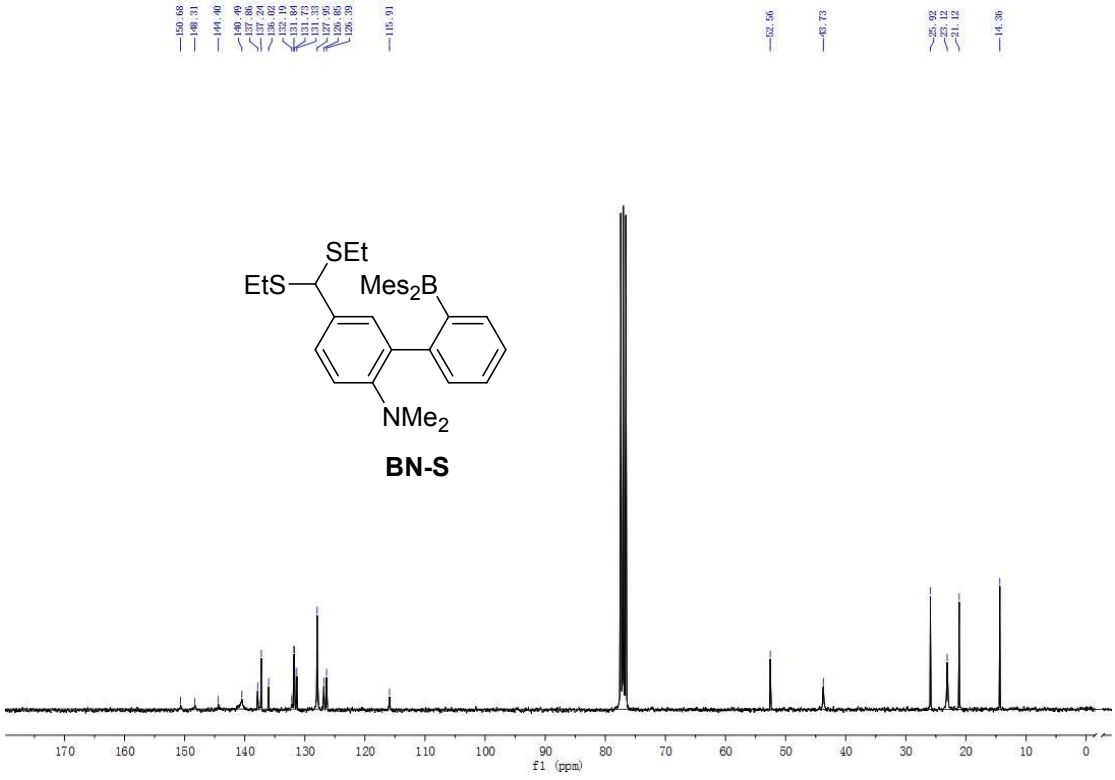


Fig. S-1 Effect of pH on the fluorescence ratio (I_{503}/ I_{534}) of **BN-S** (52.6 μM) in buffered water in the absence and presence of 30 equiv. Hg^{2+} (chloride salt). The blue points correspond to those in unbuffered water.

^{1}H NMR of **BN-S** (300 MHz, $CDCl_3$)



^{13}C NMR of **BN-S** (100 MHz, $CDCl_3$)



HRMS of **BN-S** (ESI)