

Supplementary Information

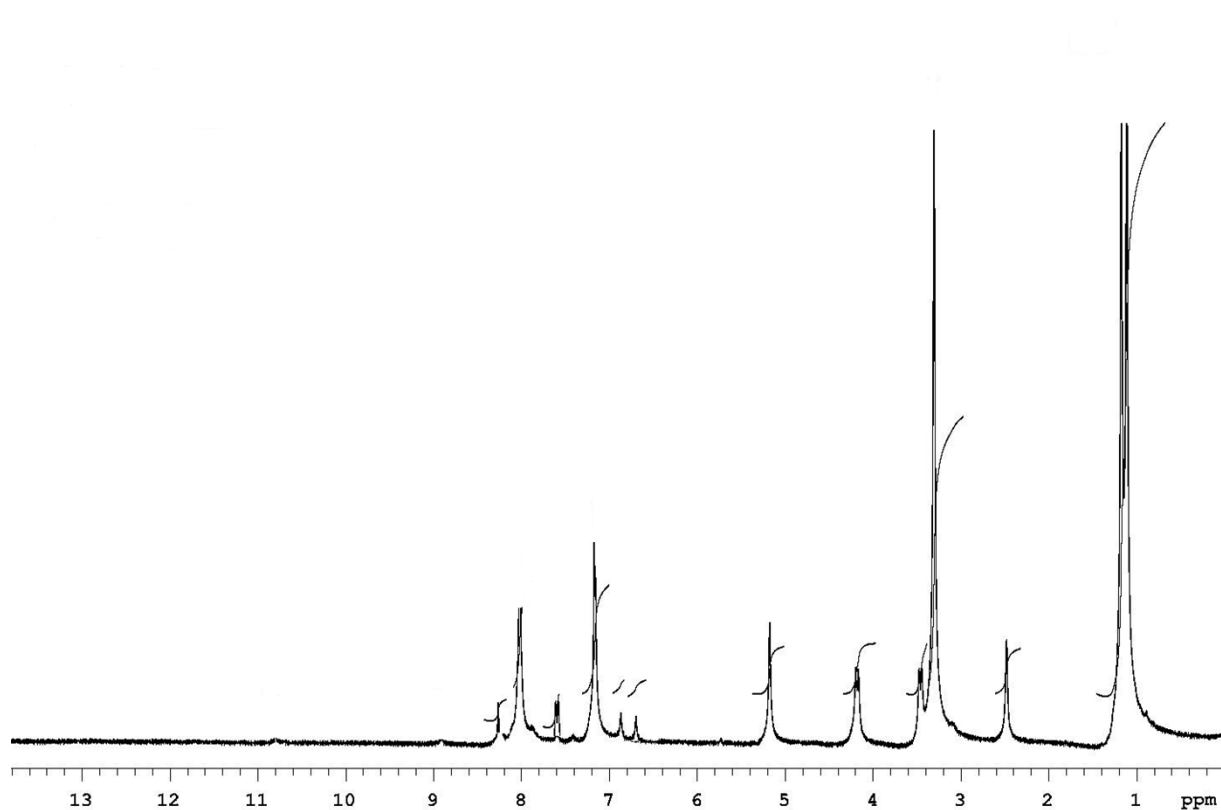


Fig. S1. ^1H NMR spectrum of C4SB.

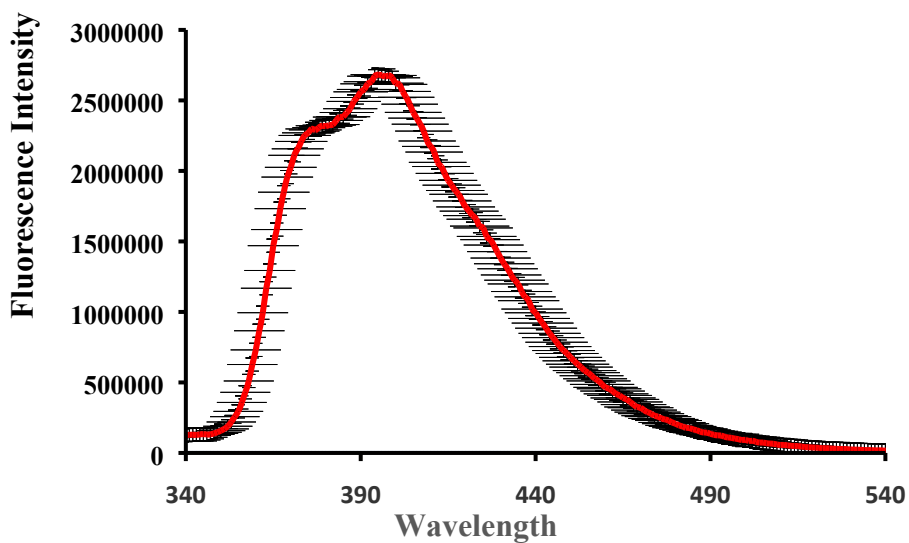


Fig. S2. (a) Each data point for Al^{3+} show the mean recovery value with error bar representing \pm SD for $n=4$

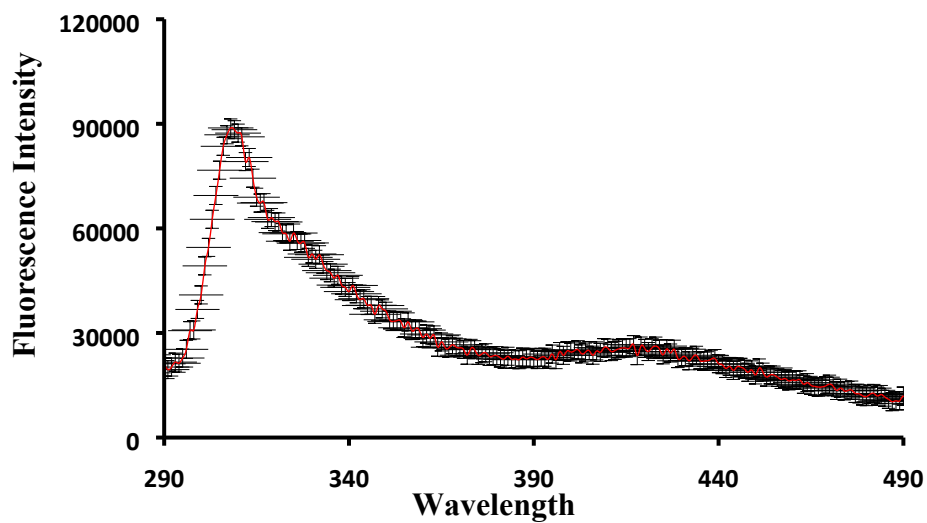
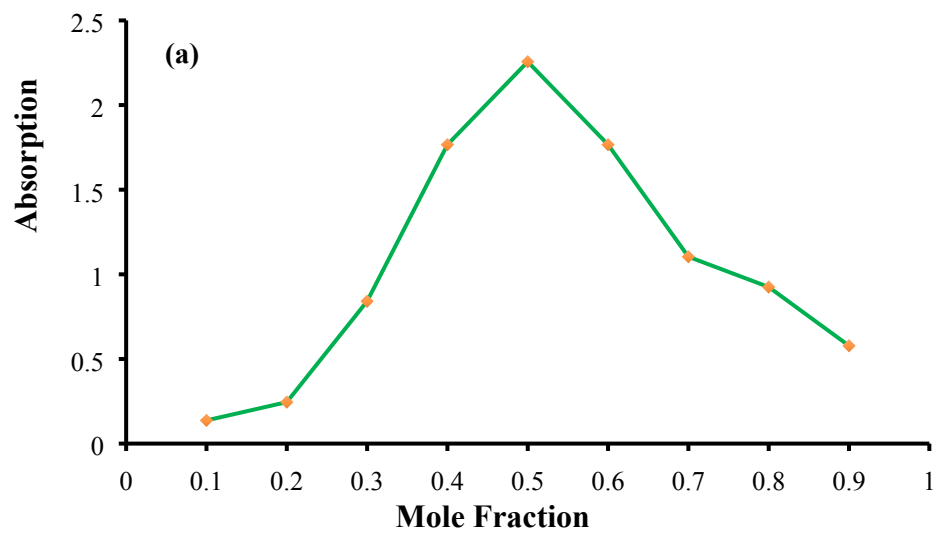


Fig. S2. (b) Each data point for Γ show the mean recovery value with error bar representing \pm SD for $n=4$



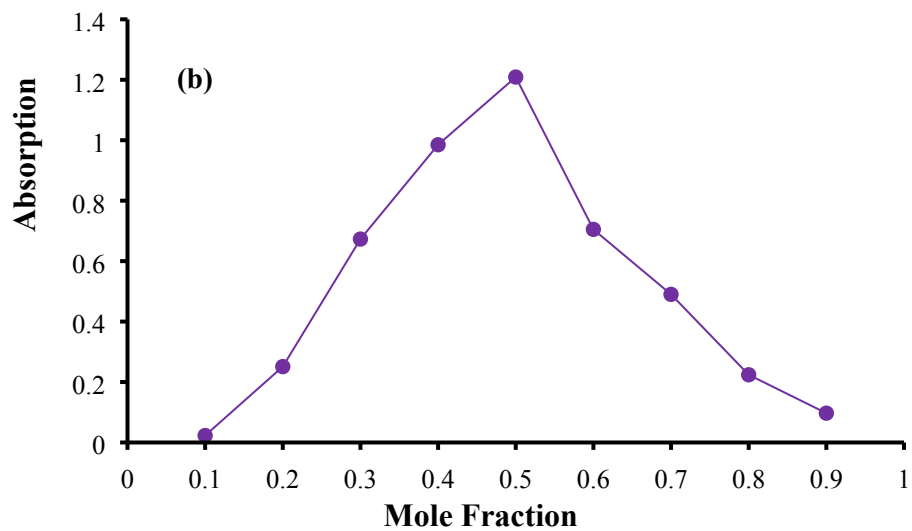


Fig. S3. Stoichiometric ratio of **C4SB-Al³⁺** complex (b) **C4SB-I** complex in THF+H₂O.

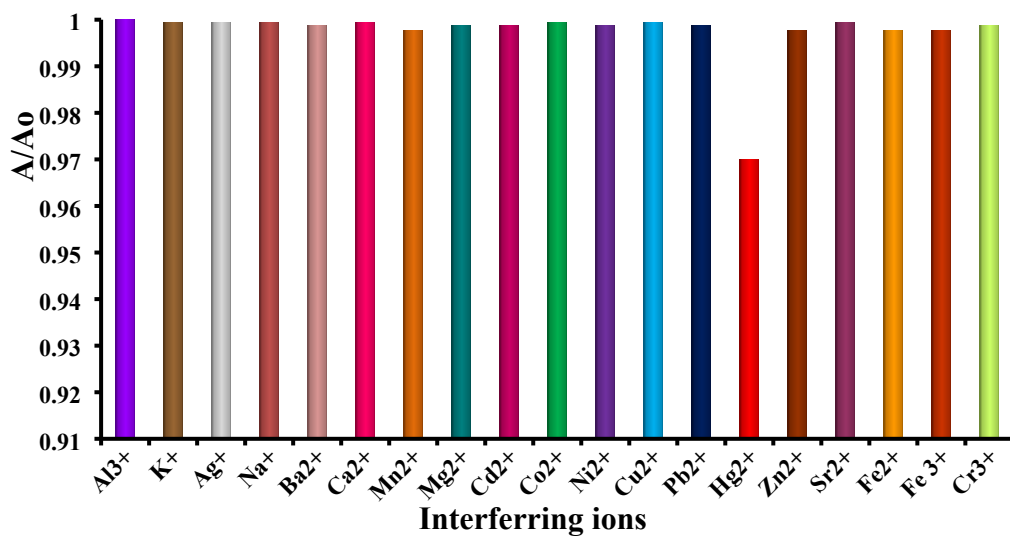


Fig. S4. Ratiometric responses of (**C4SB-Al³⁺** complex) toward interfering ions.

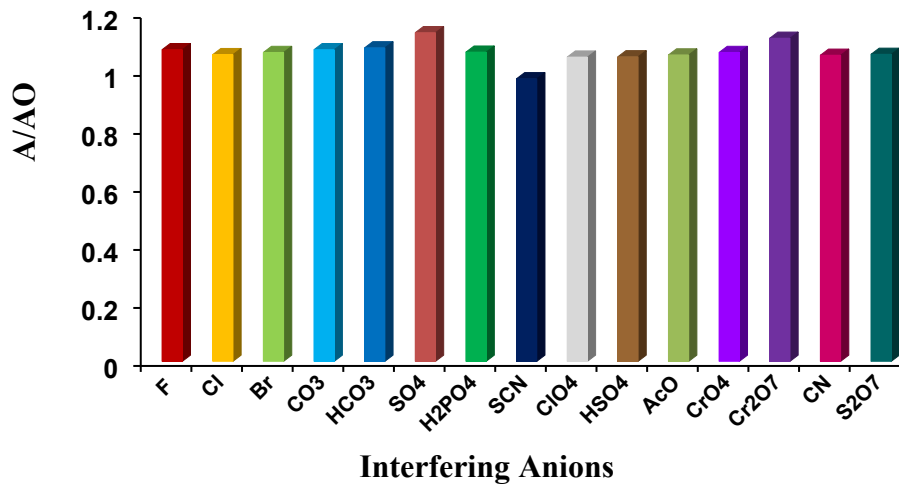


Fig. S5. Ratiometric response of (C4SB-I complex) toward interfering ions.

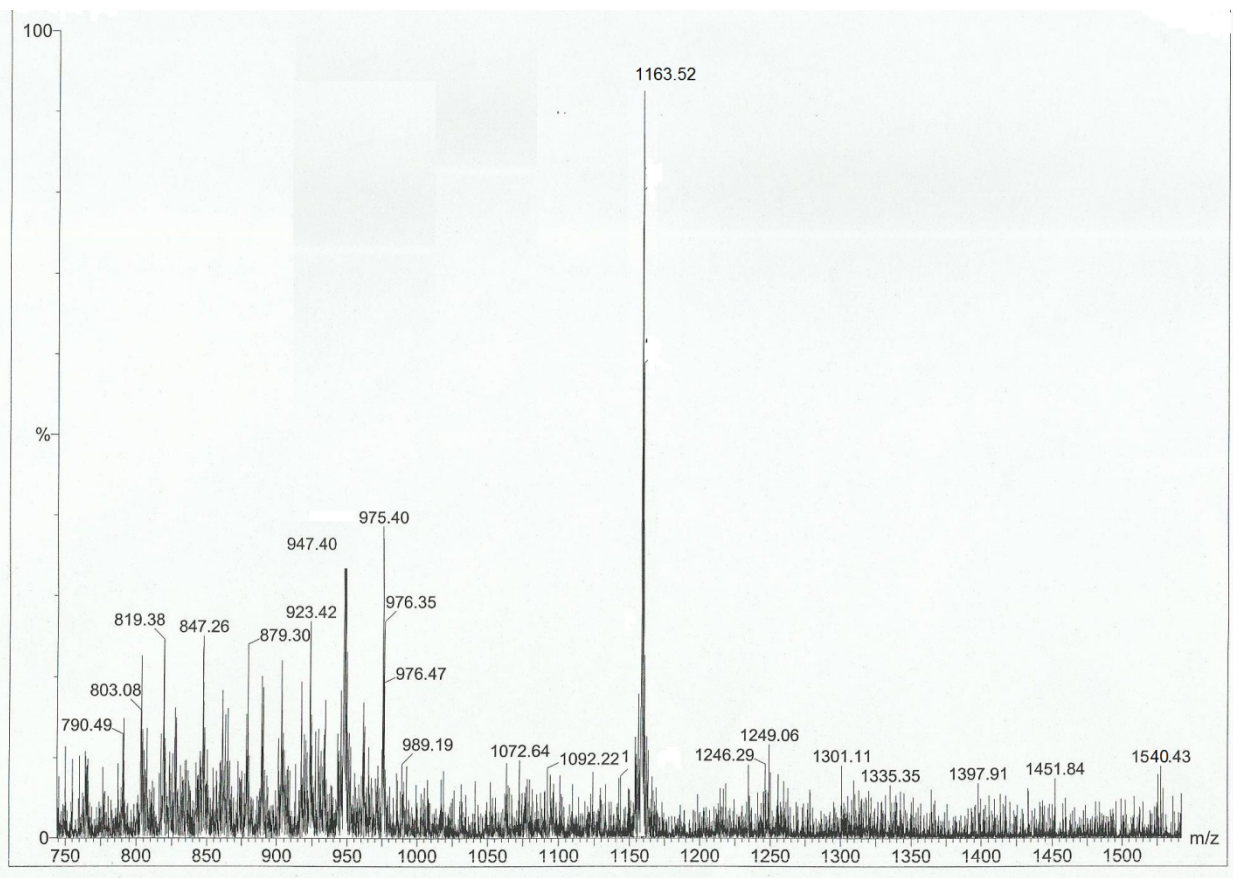


Fig. S6. ESI-MS spectrum of C4SB-Al³⁺

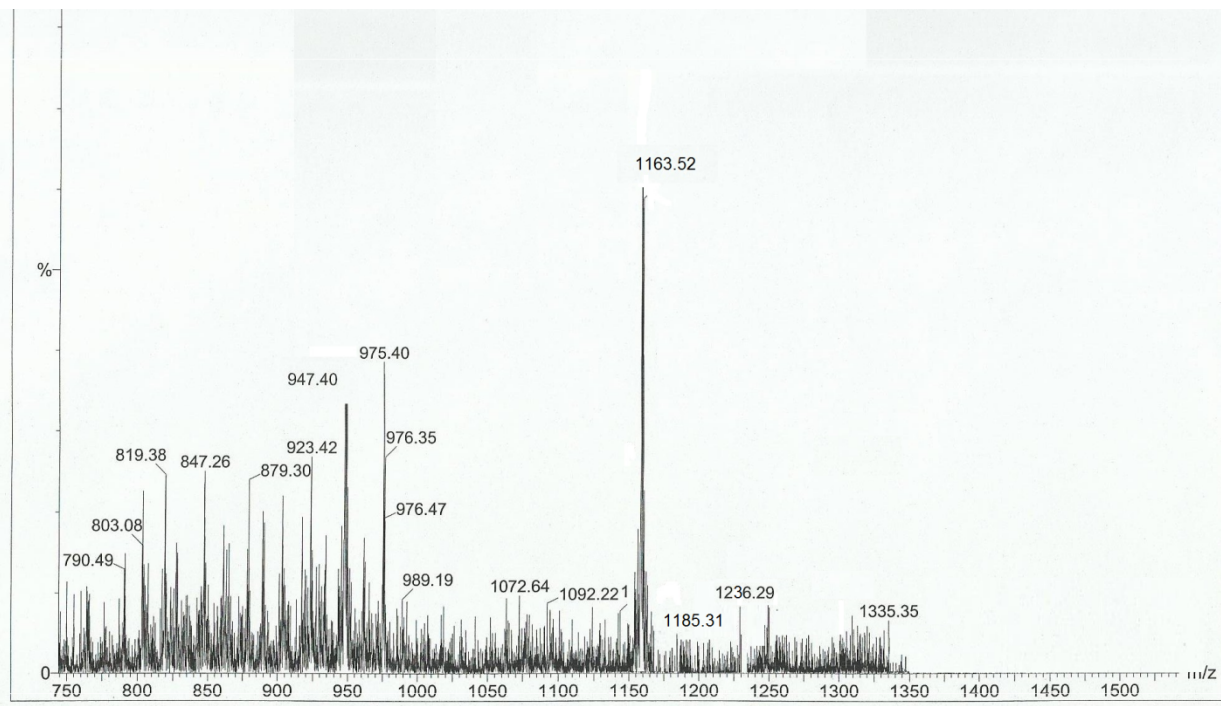


Fig. S7. ESI-MS spectrum of **C4SB-I**