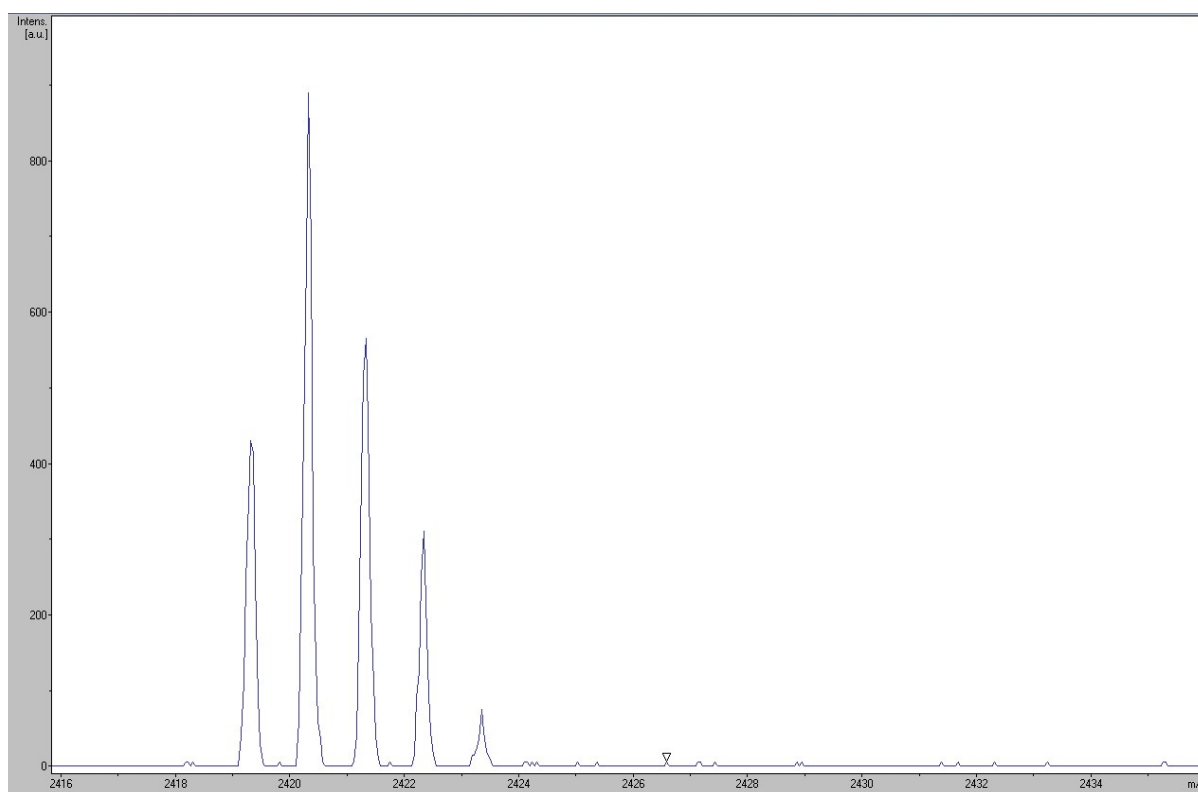
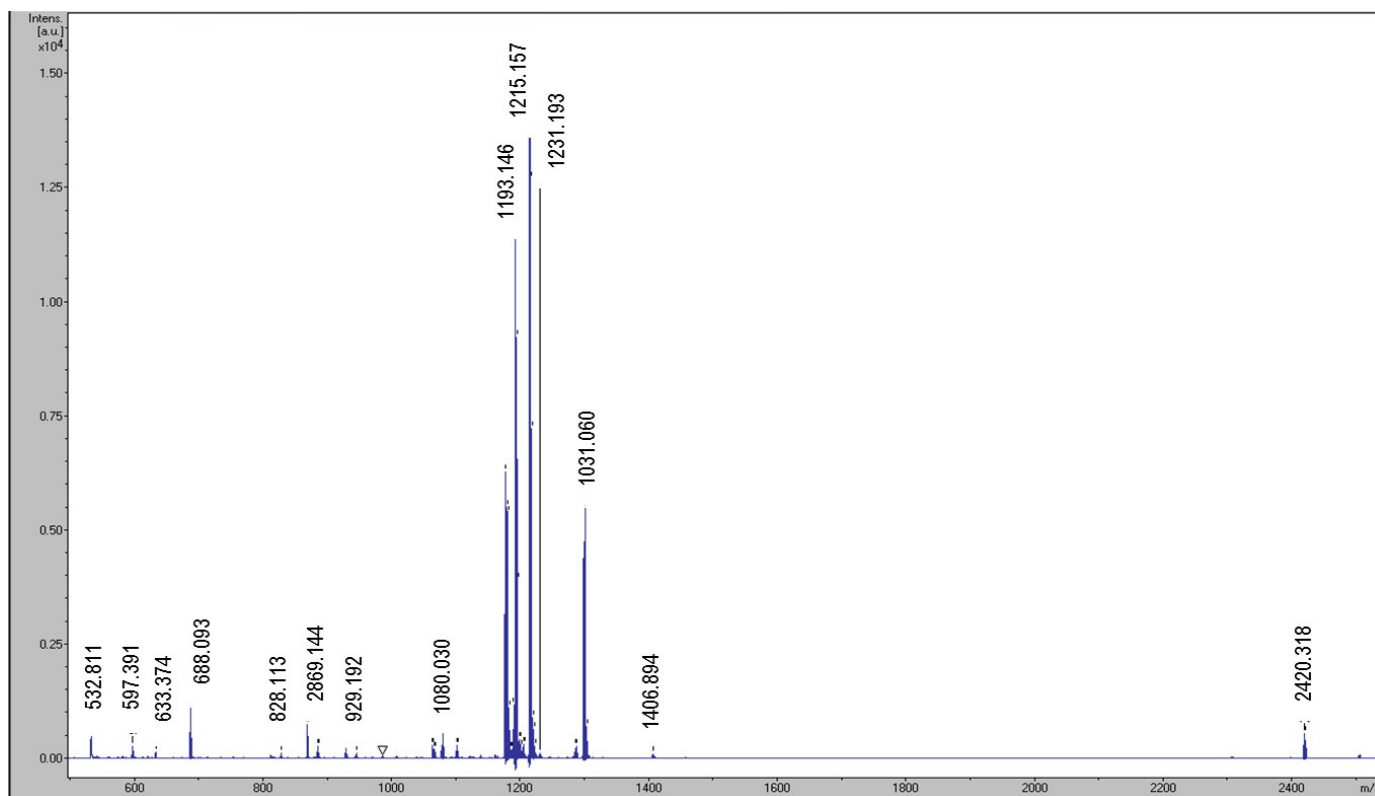
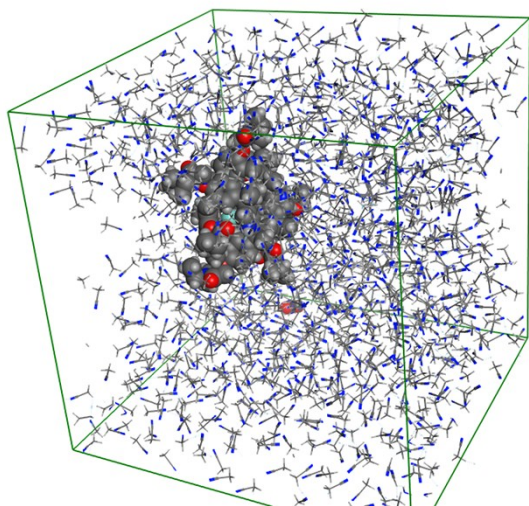


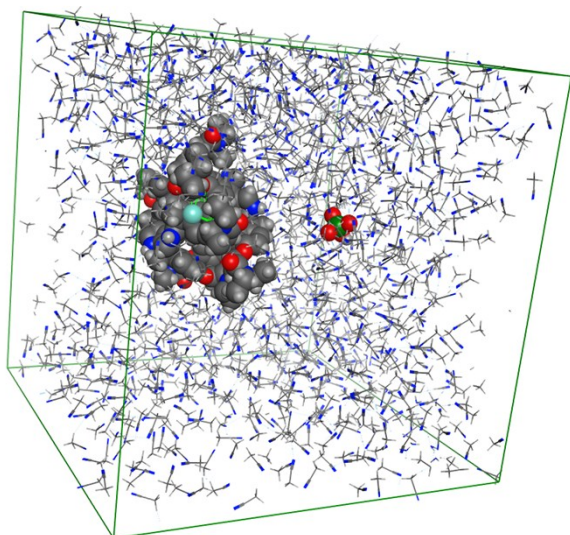
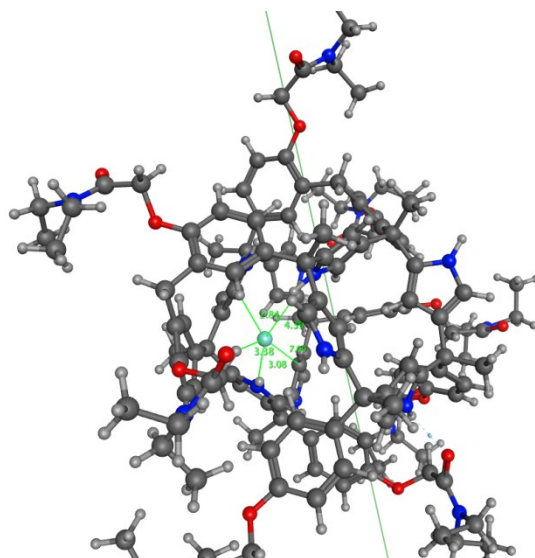
## Supplementary information



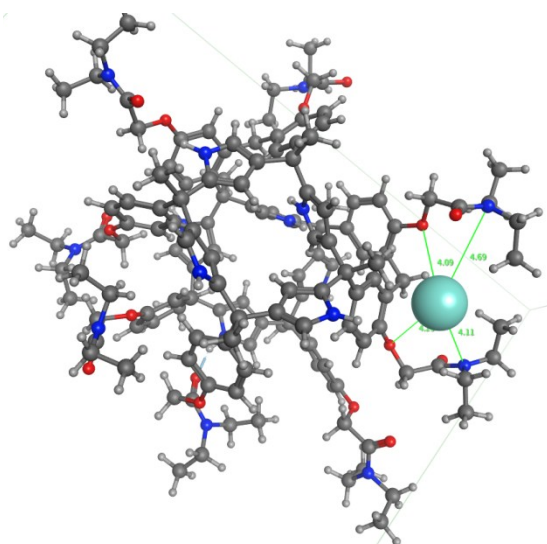
**Fig. S1.** Mass spectrum of the CPA dimer.

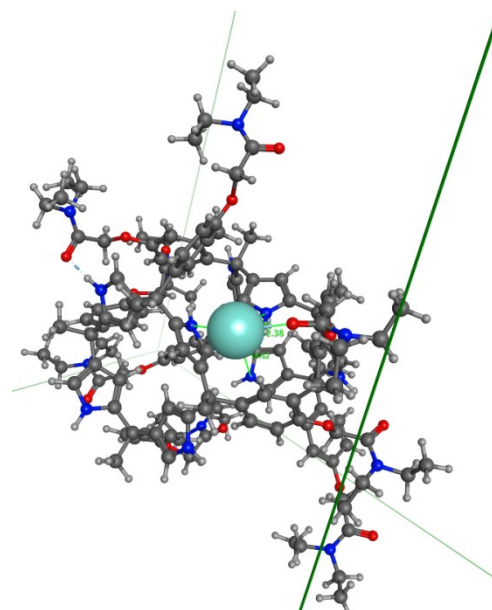
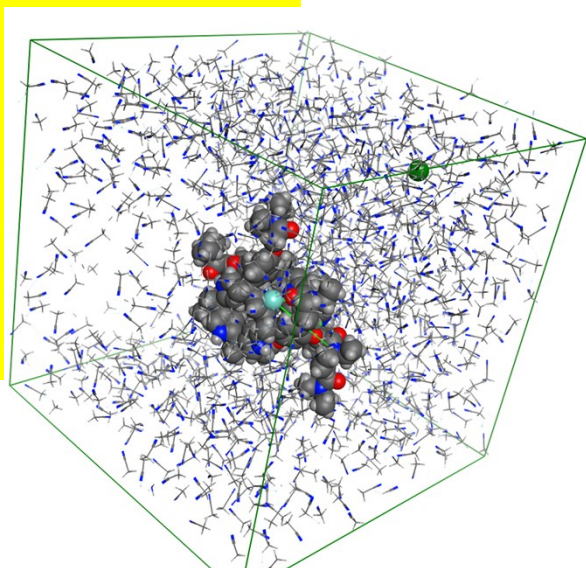


Hg (II) in contact with CPA dimer, NO<sub>3</sub> in solvent shell



Hg (II) in contact with CPA dimer, ClO<sub>4</sub> in solvent shell





Hg (II) in contact with CPA dimer, Cl in solvent shell.

**Fig. S2.** Molecular Simulation dynamics of the dimer with Hg (II) involving different counter ions.