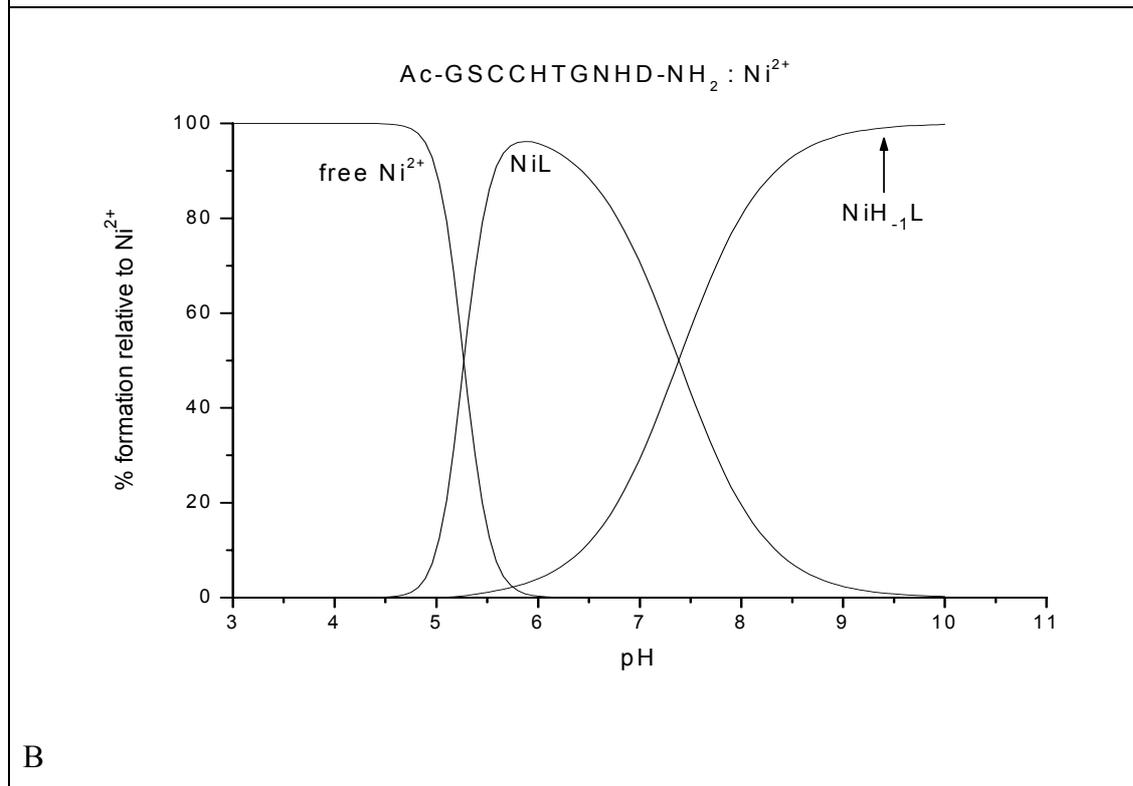
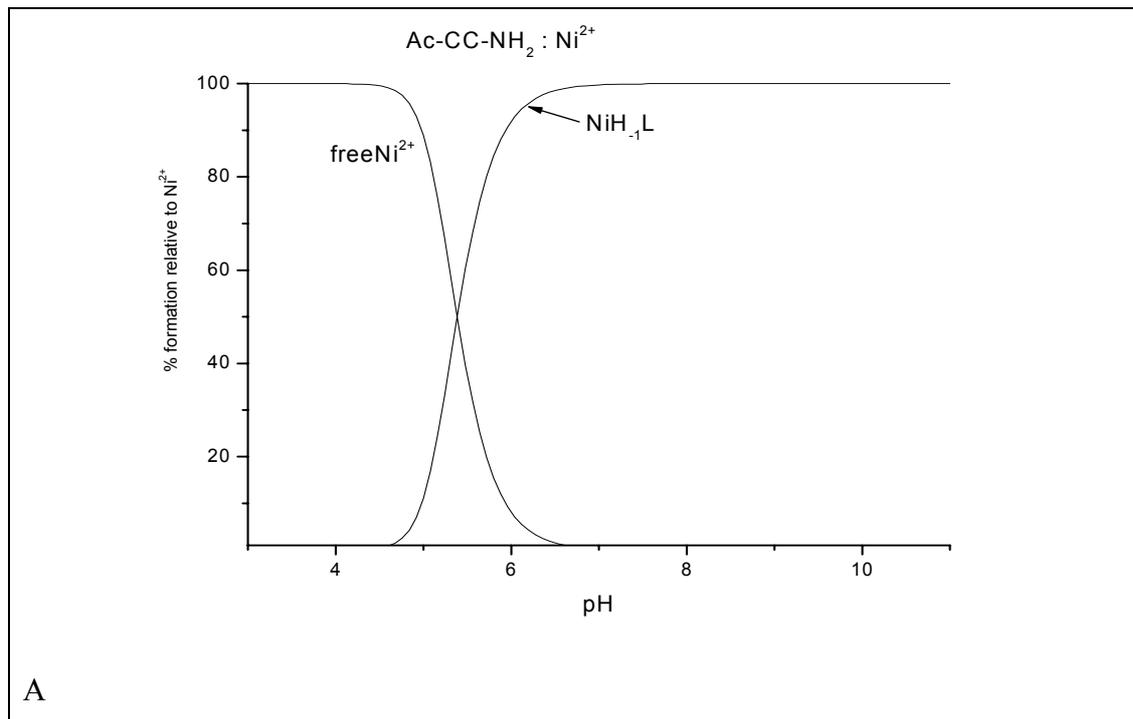


Supplementary



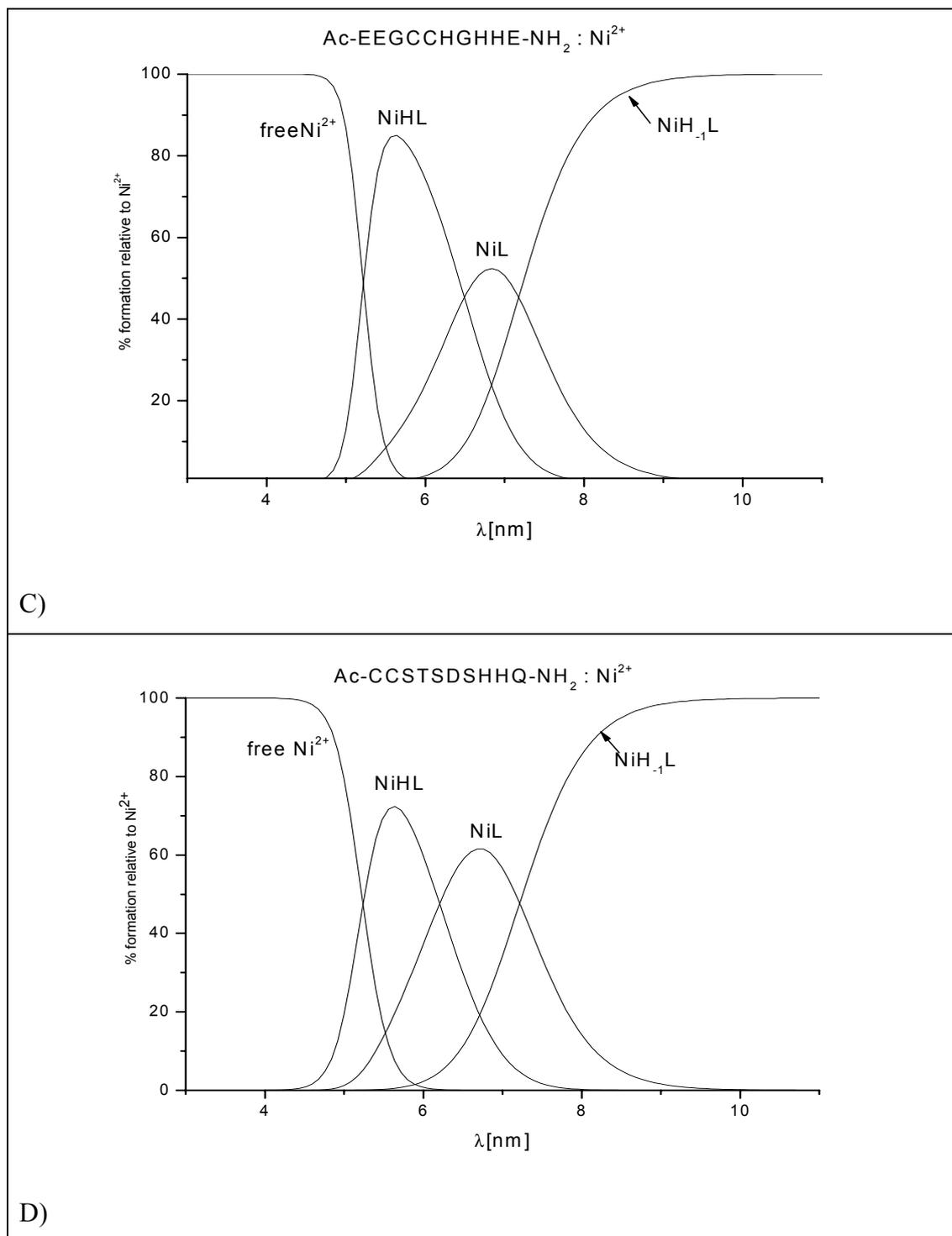
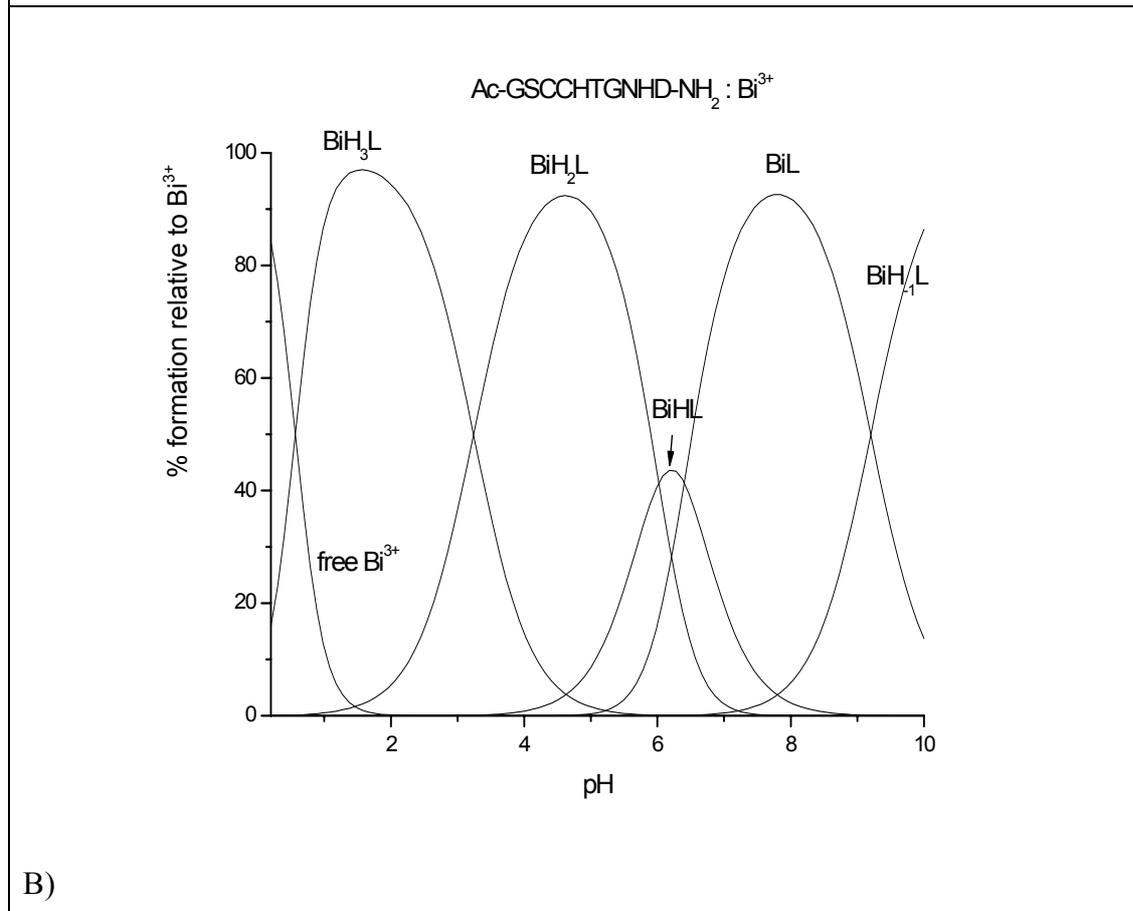
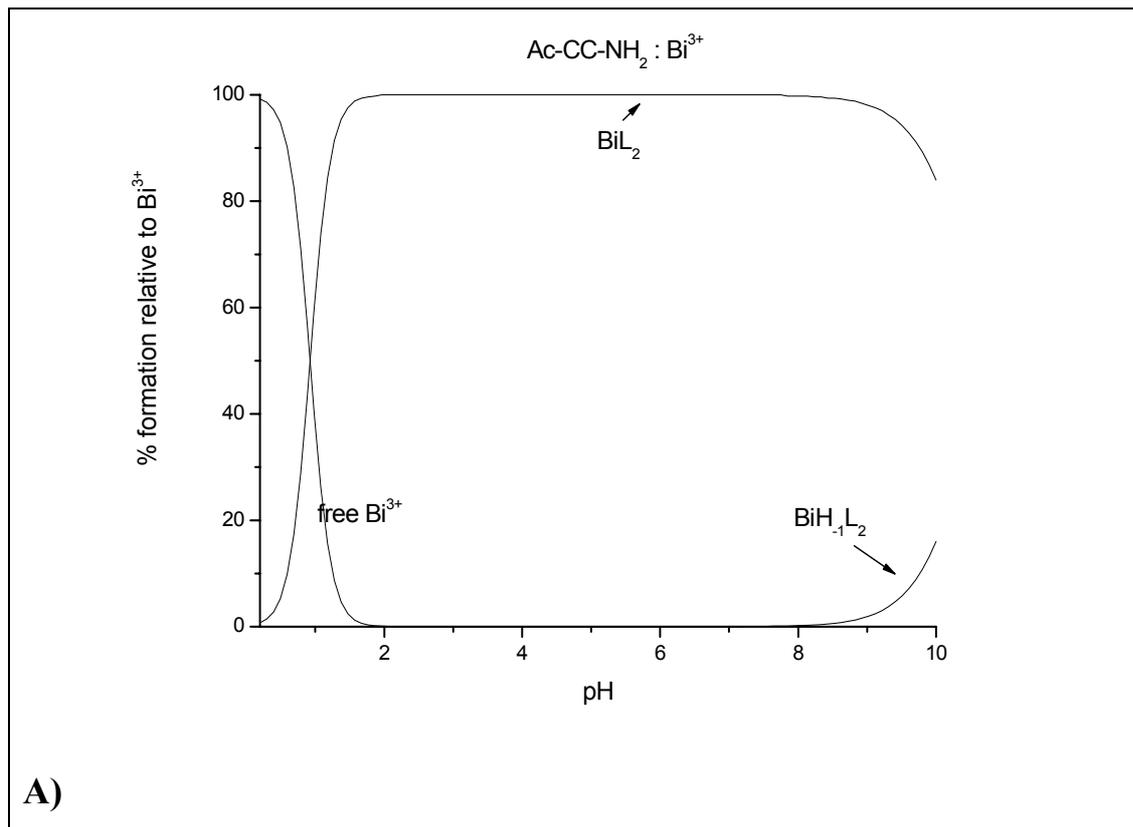


Fig. S1. Species distribution profiles of Ni²⁺ complexes of A) Ac-CC-NH₂, B) Ac-GSCCHTGNHD-NH₂, C) Ac-EEGCCHGHHE-NH₂, and D) Ac-CCSTSDSHHQ-NH₂. Ligand to metal ratio = 1:1.



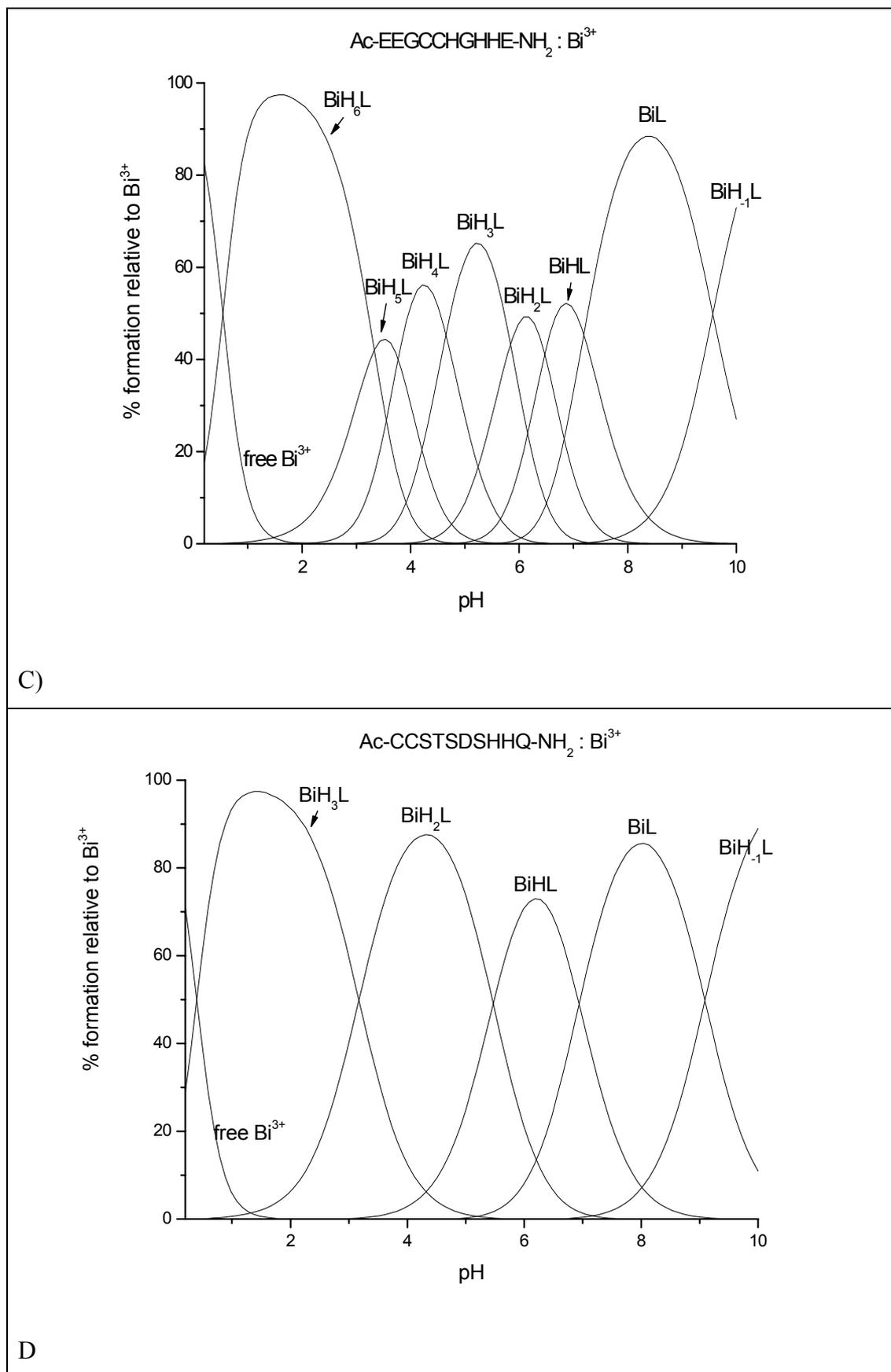
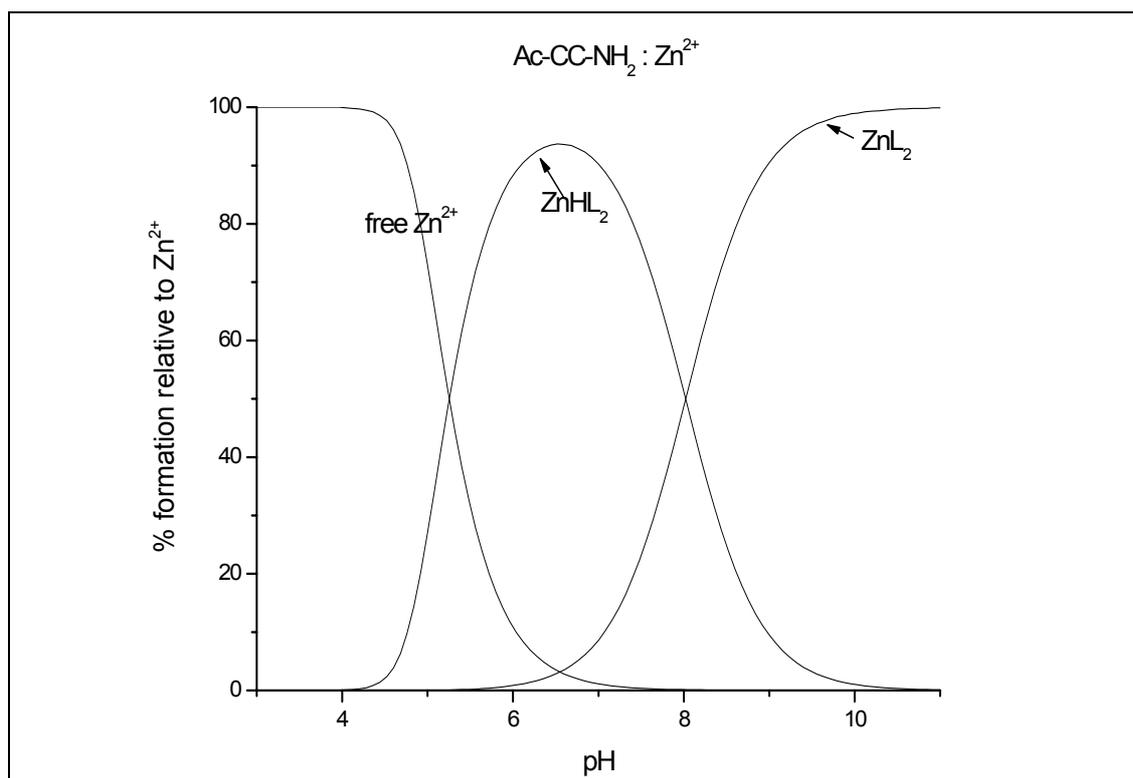
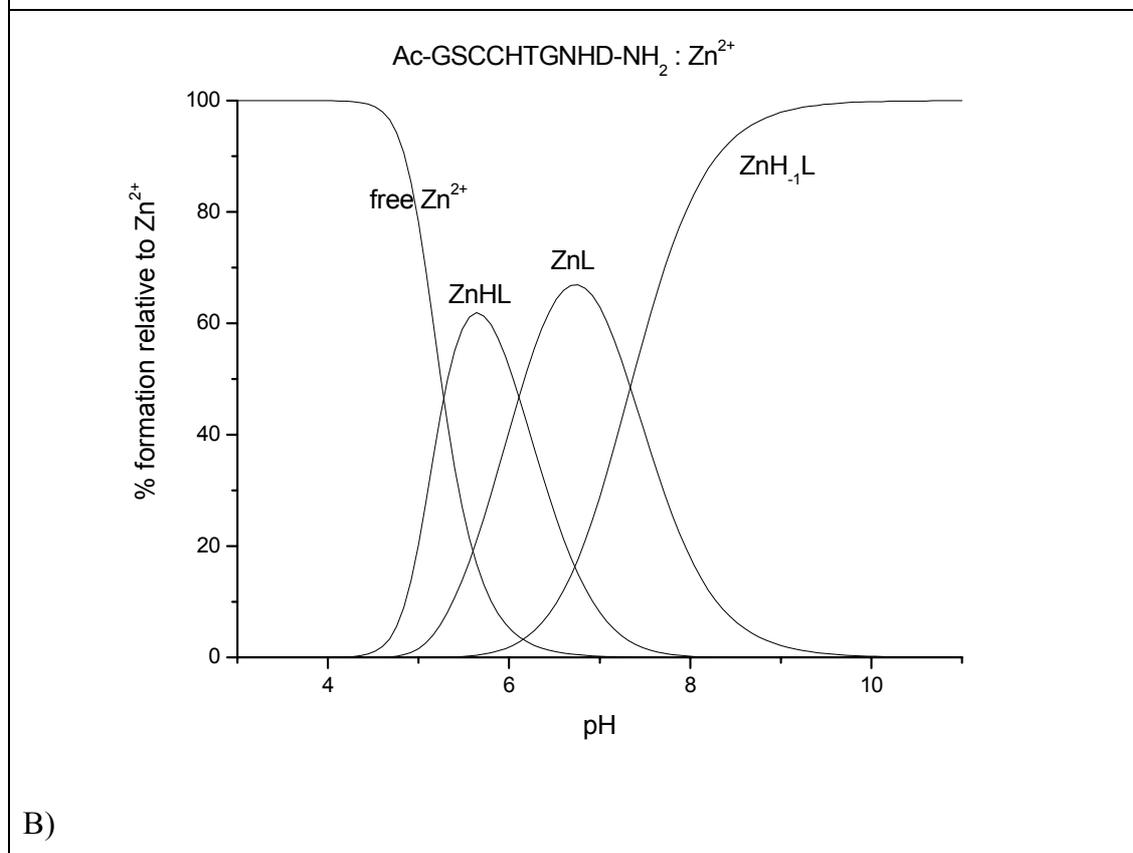


Fig. S2. Species distribution profiles of Bi³⁺ complexes of A) Ac-CC-NH₂, B) Ac-GSCHTGNHD-NH₂ C) Ac-EEGCCHGHHE-NH₂, and D) Ac-CCSTSDSHHQ-NH₂. Ligand to metal ratio = 2:1.



A)



B)

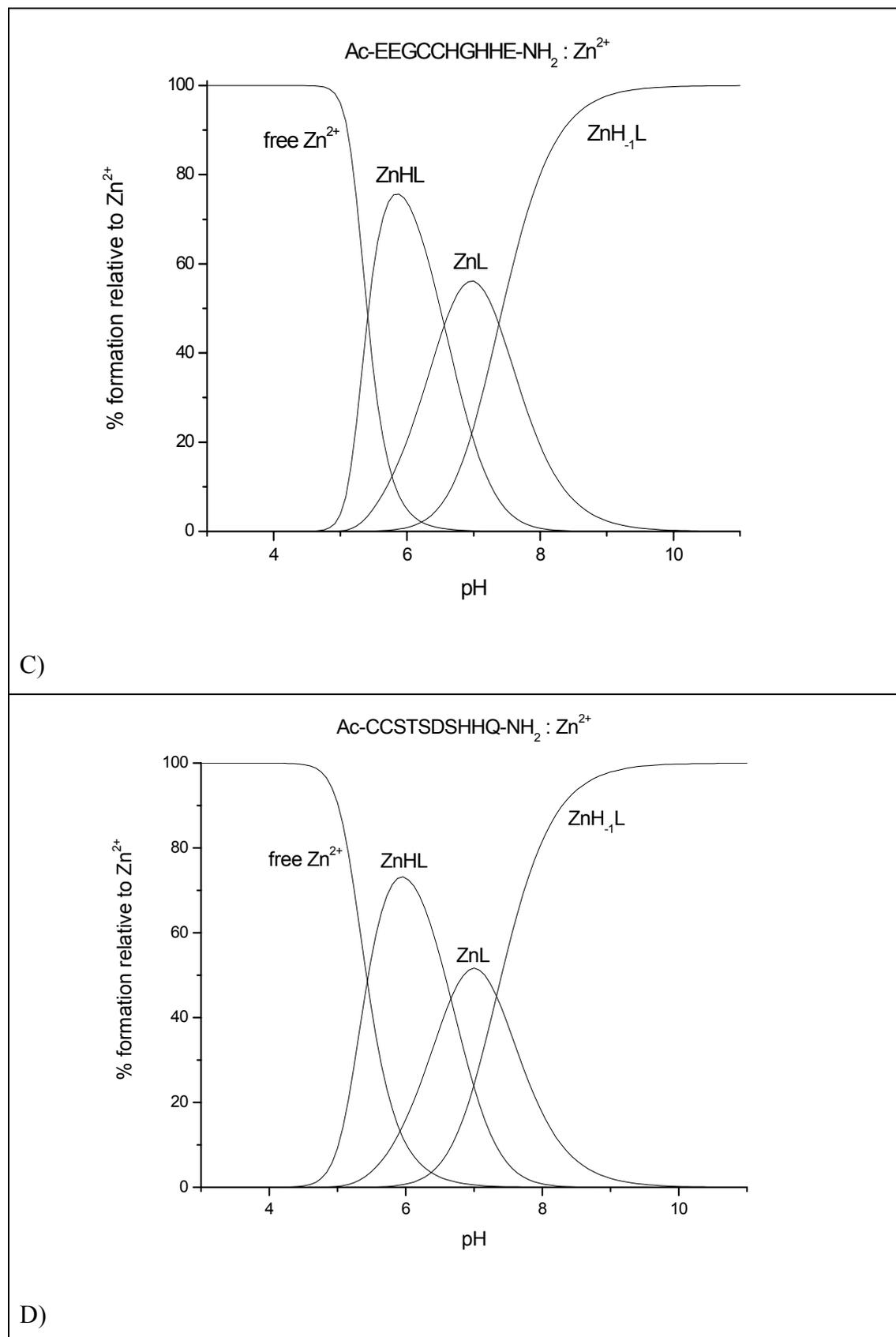
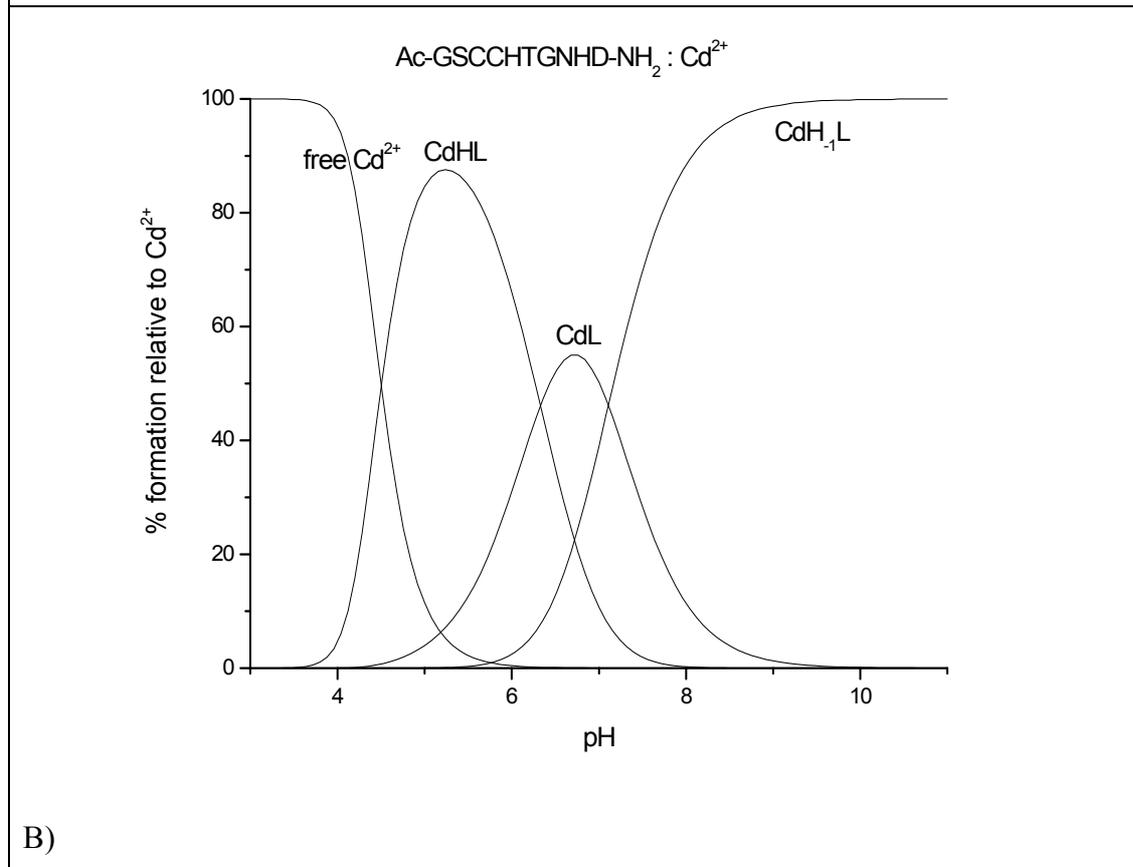
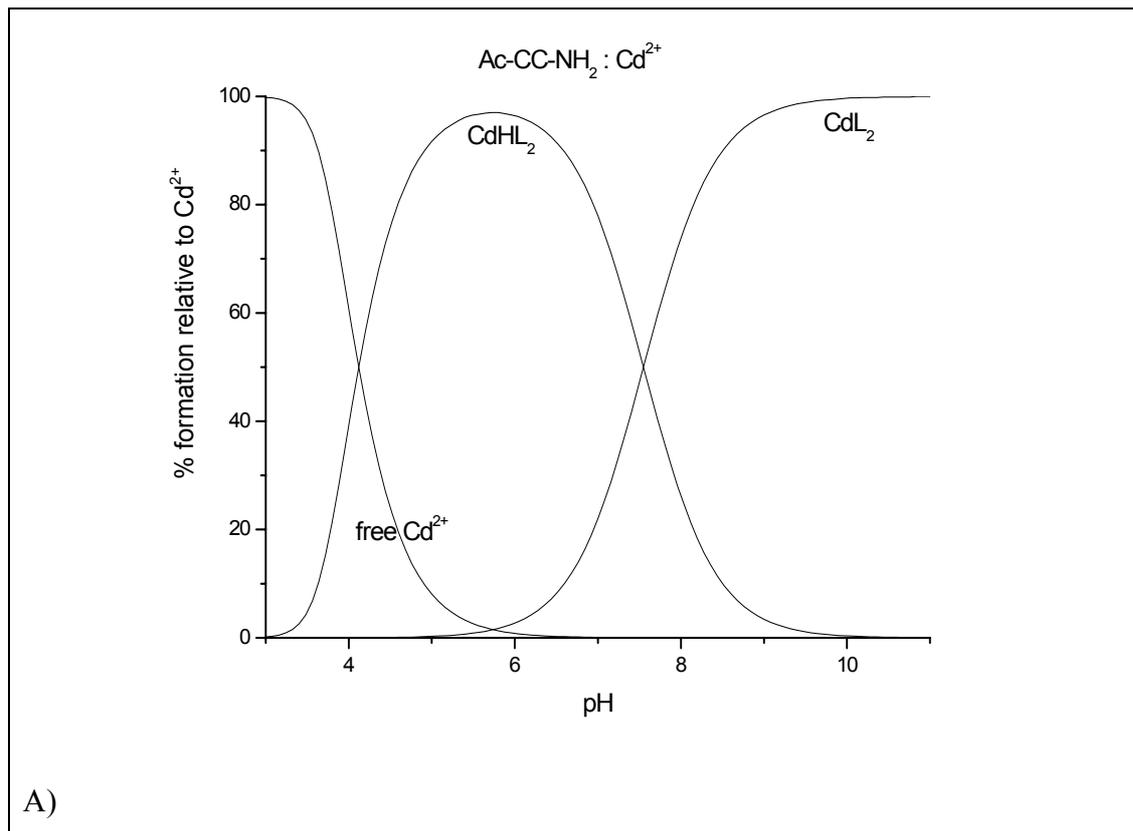


Fig. S3. Species distribution profiles of Zn²⁺ complexes of A) Ac-CC-NH₂, B) Ac-GSCHTGNHD-NH₂, C) Ac-EEGCCHGHHE-NH₂, and D) Ac-CCSTSDSHHQ-NH₂. Ligand to metal ratio = 2:1 (A) and 1:1 (B,C,D).



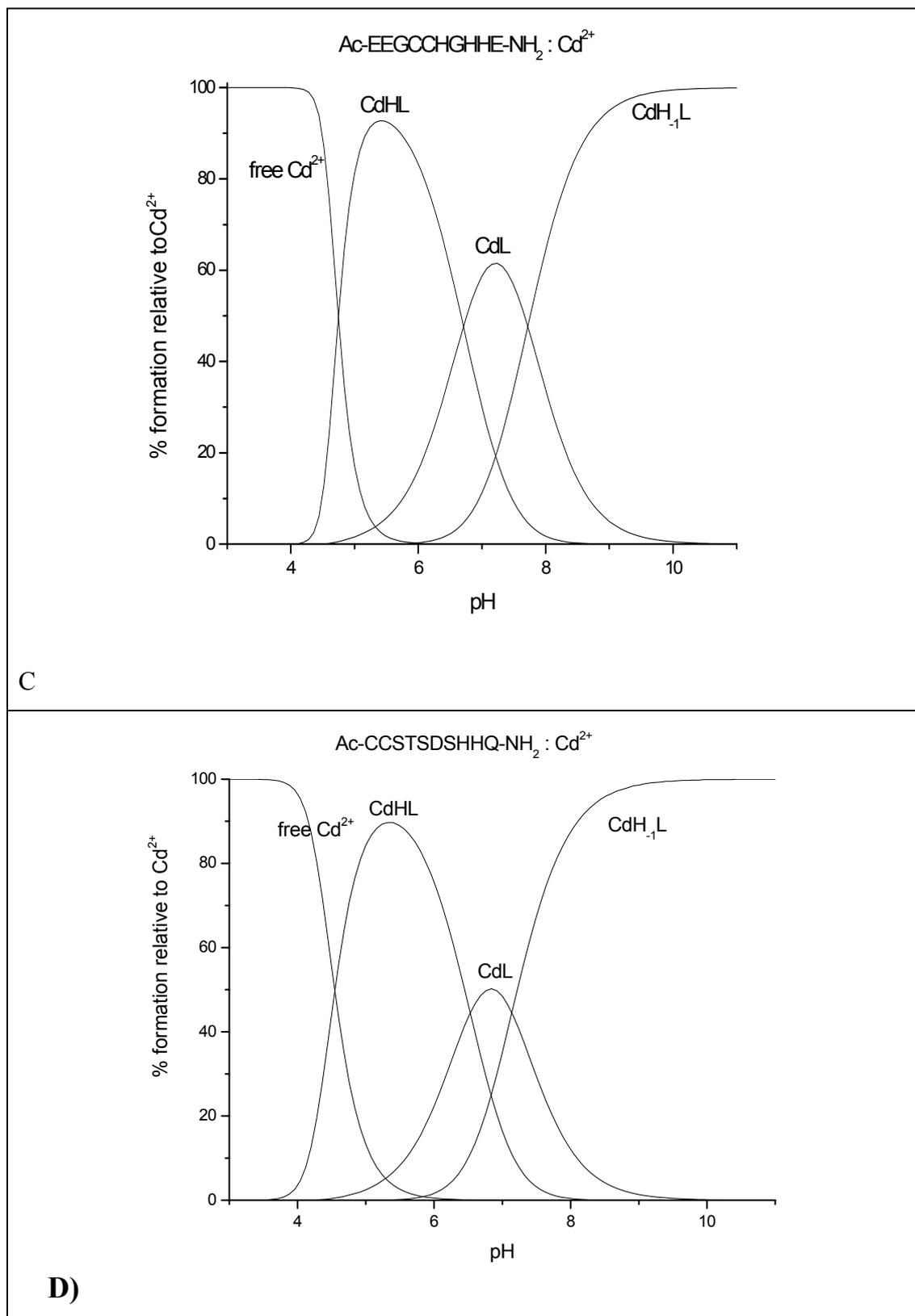


Fig. S4. Species distribution profiles of Cd²⁺ complexes A) Ac-CC-NH₂, B) Ac-GSCCHTGNHD-NH₂ C) Ac-EEGCCHGHHE-NH₂, and D) Ac-CCSTSDSHHQ-NH₂. Ligand to metal ratio = 2:1 (A) and 1:1 (B,C,D).

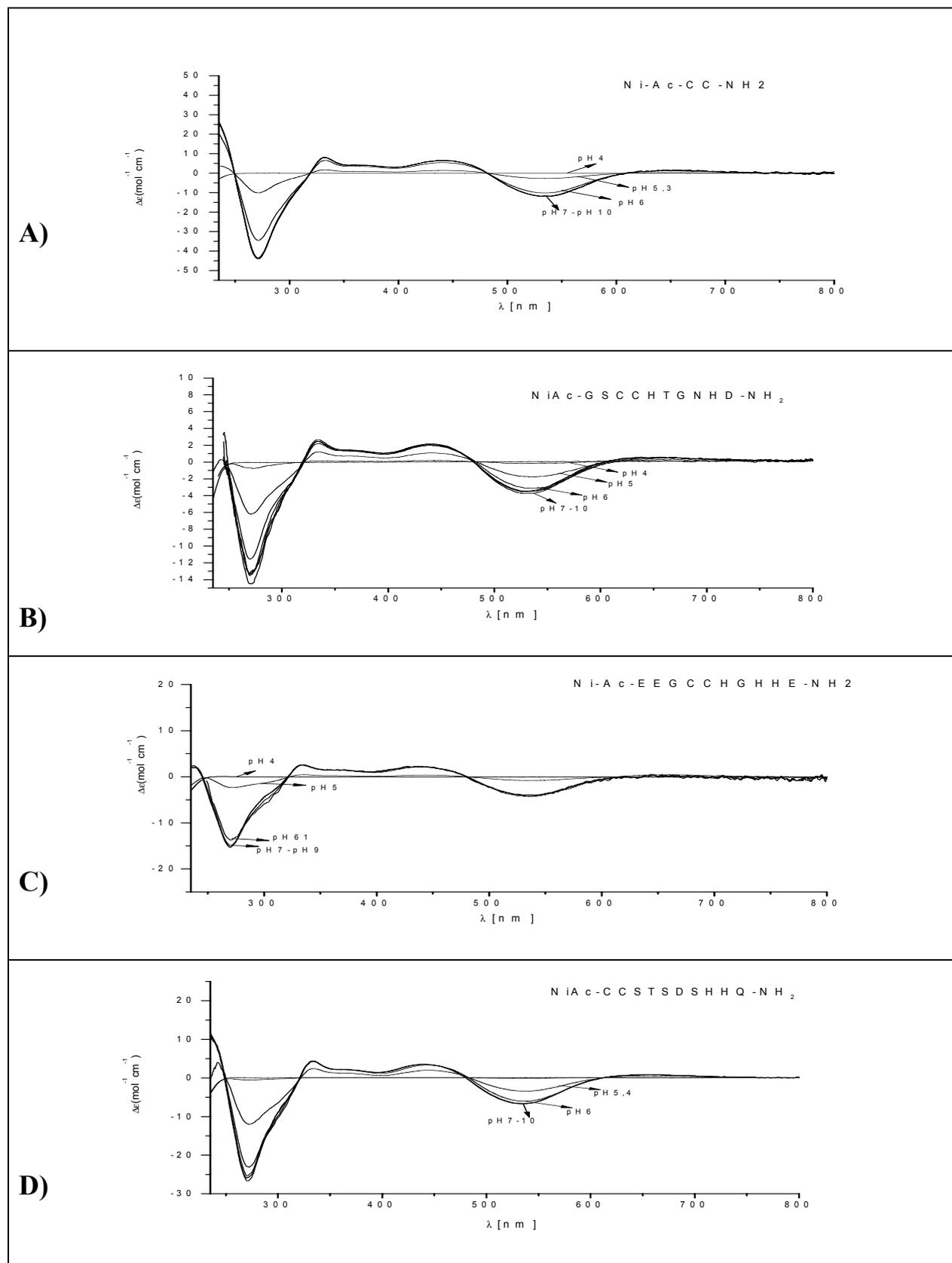


Fig. S5. The CD spectra of Ni²⁺ complexes of A) Ac-CC-NH₂, B) Ac-GSCCHTGNHD-NH₂ C) Ac-EEGCCHGHHE-NH₂, and D) Ac-CCSTSDSHHQ-NH₂.

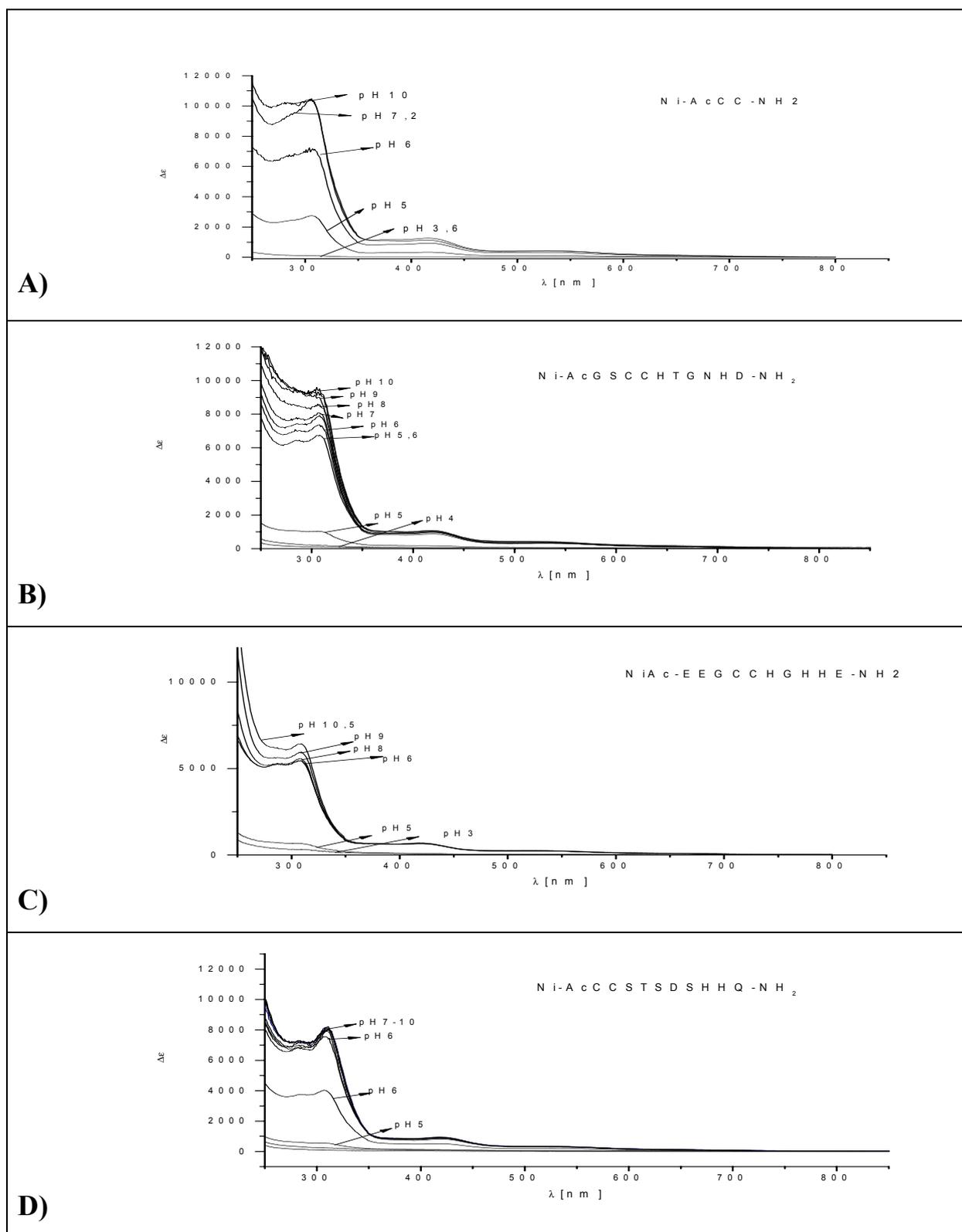
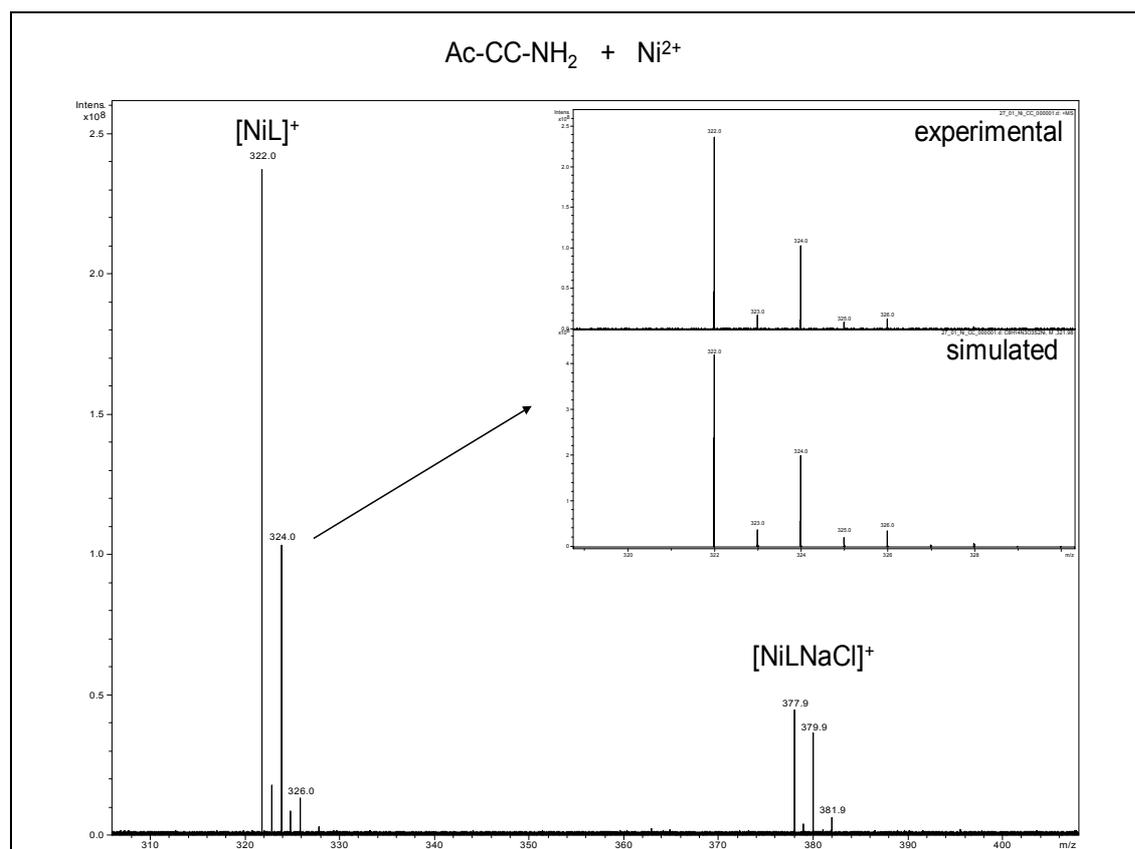
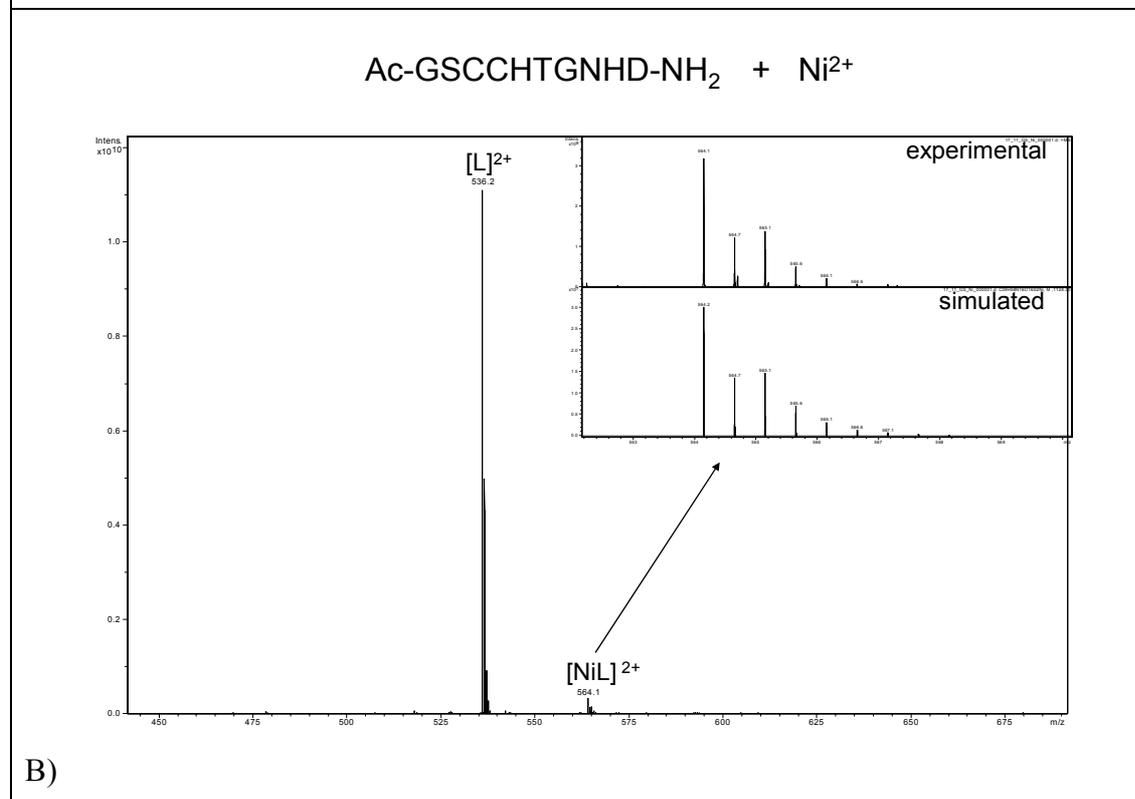


Fig. S6. The Uv-Vis spectra of Ni²⁺ complexes of A) Ac-CC-NH₂, B) Ac-GSCCHTGNHD-NH₂ C) Ac-EEGCCHGHHE-NH₂, and D) Ac-CCSTSDSHHQ-NH₂.



A)



B)

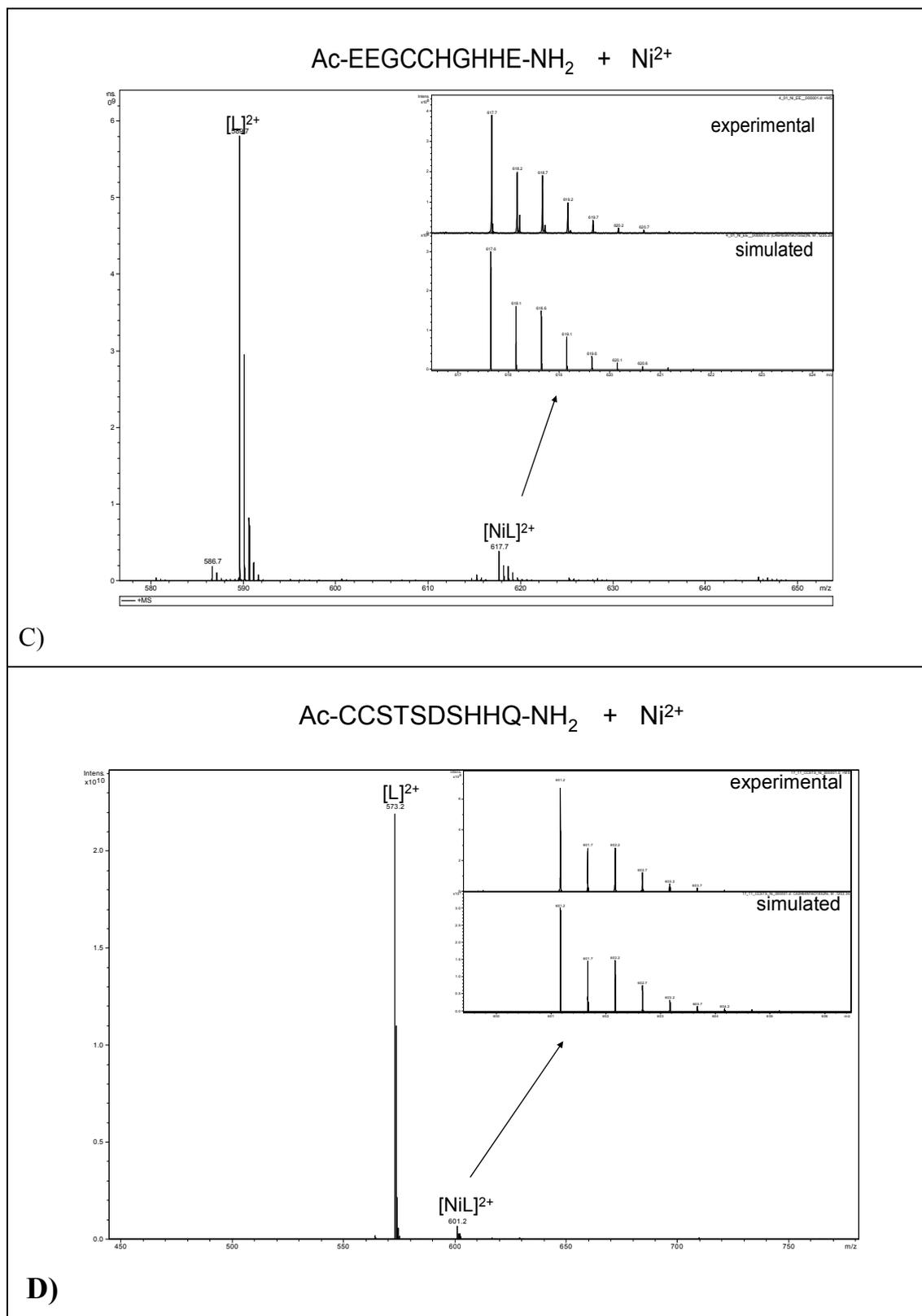
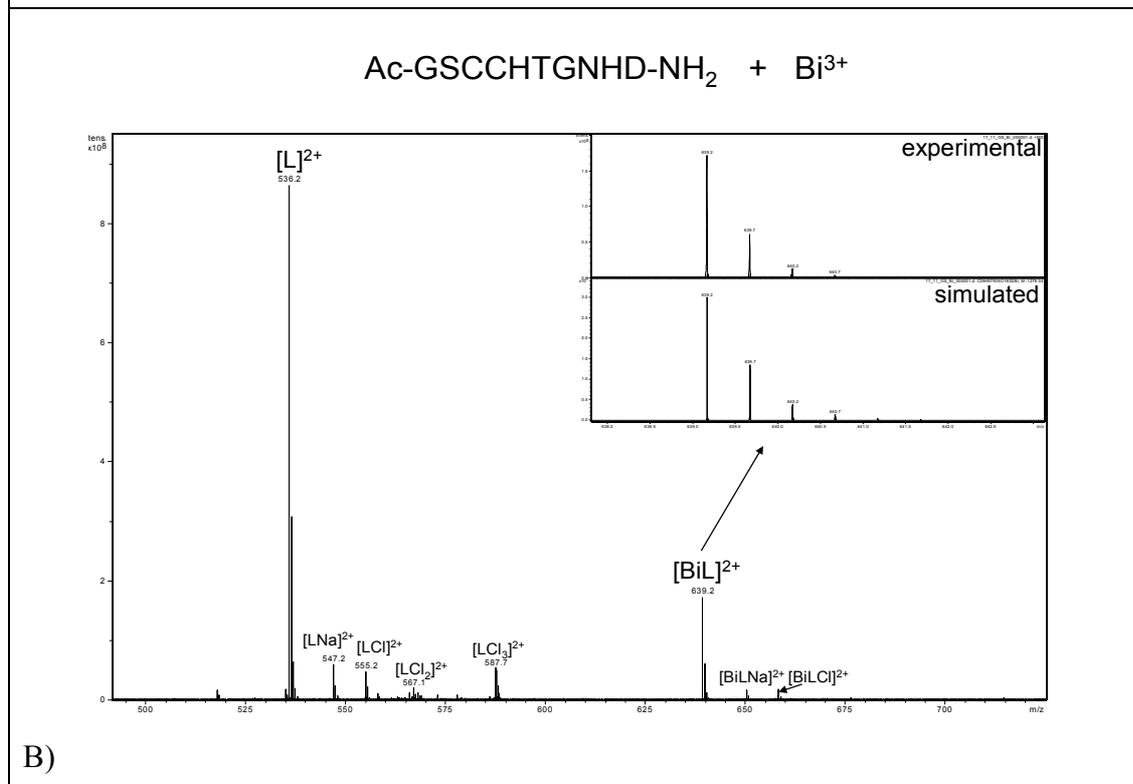
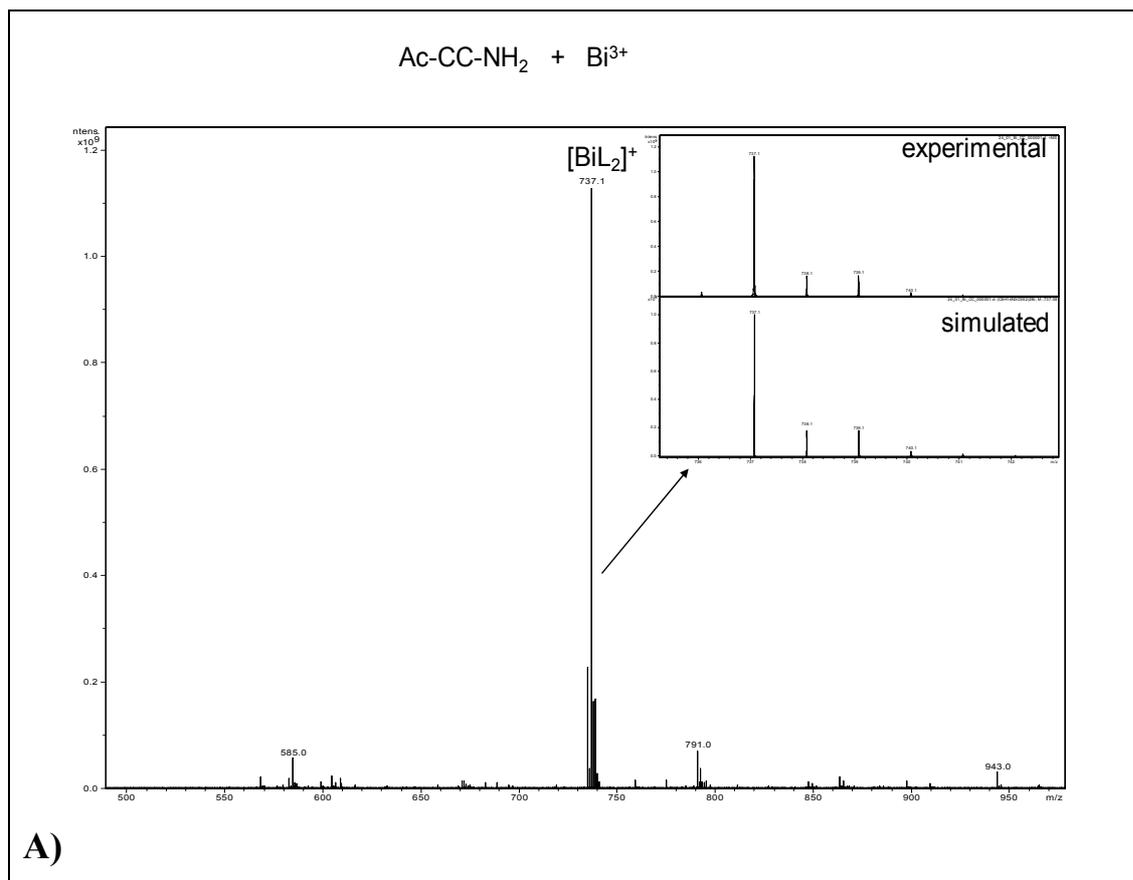


Fig. S7. Mass spectra of a system containing Ni²⁺ ions A) Ac-CC-NH₂, B) Ac-GSCHTGNHD-NH₂ C) Ac-EEGCCHGHHE-NH₂, and D) Ac-CCSTSDSHHQ-NH₂ in a 1:1 stoichiometry.



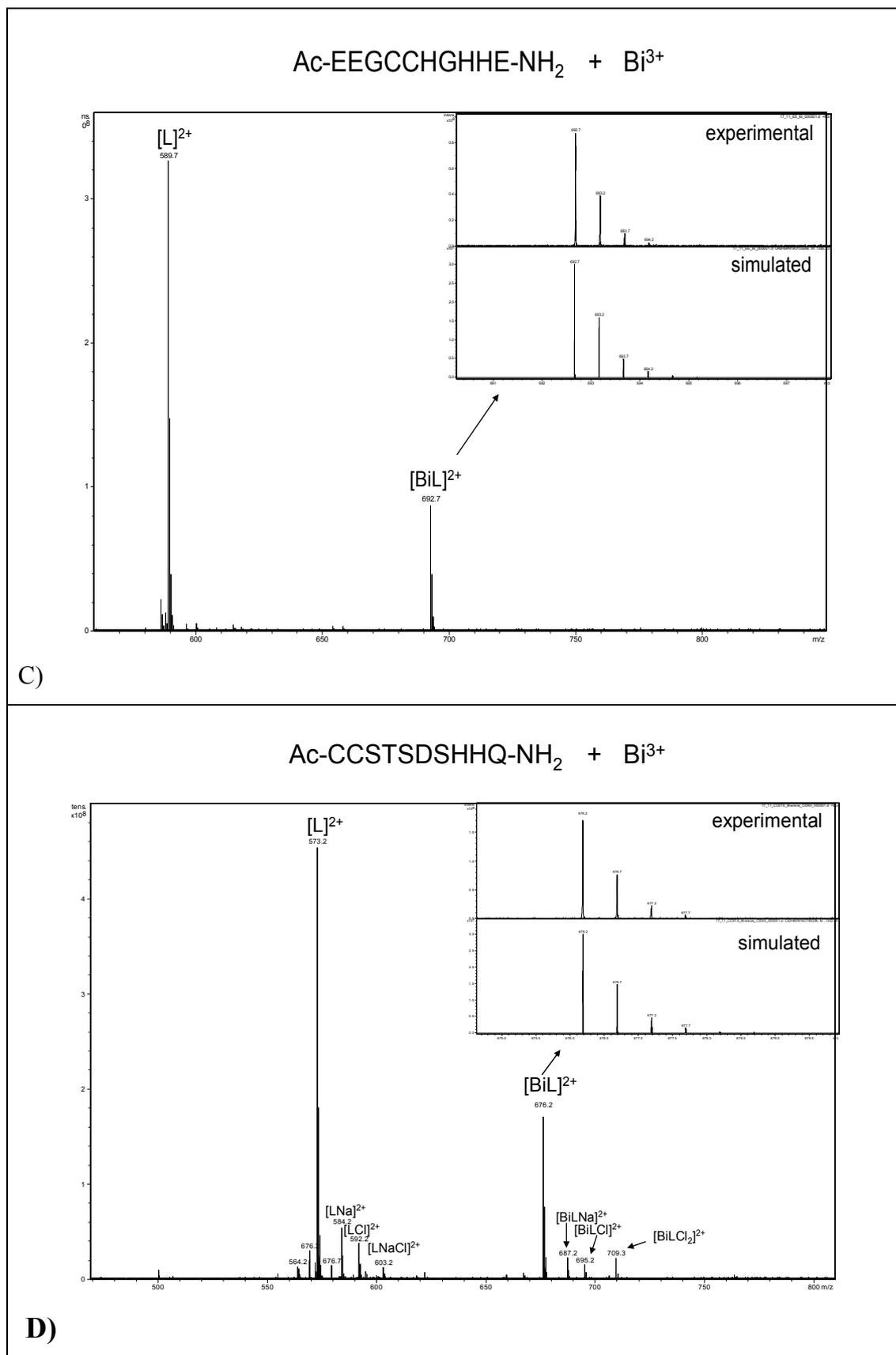
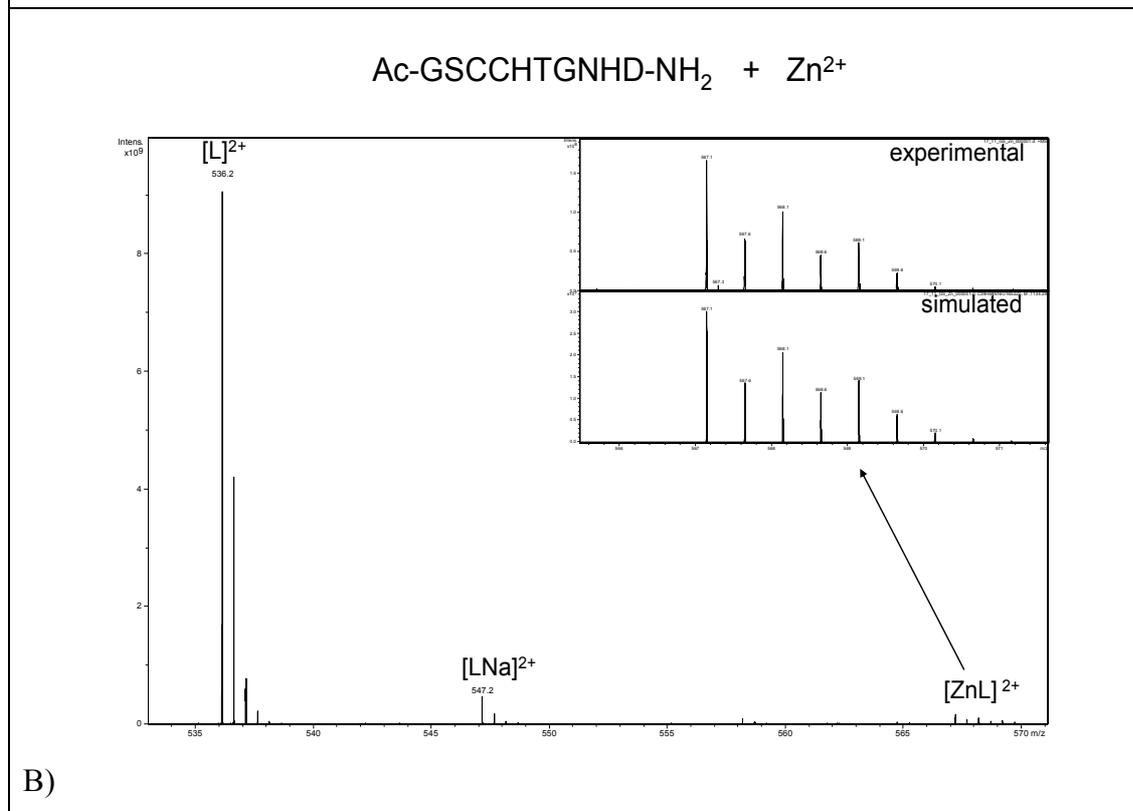
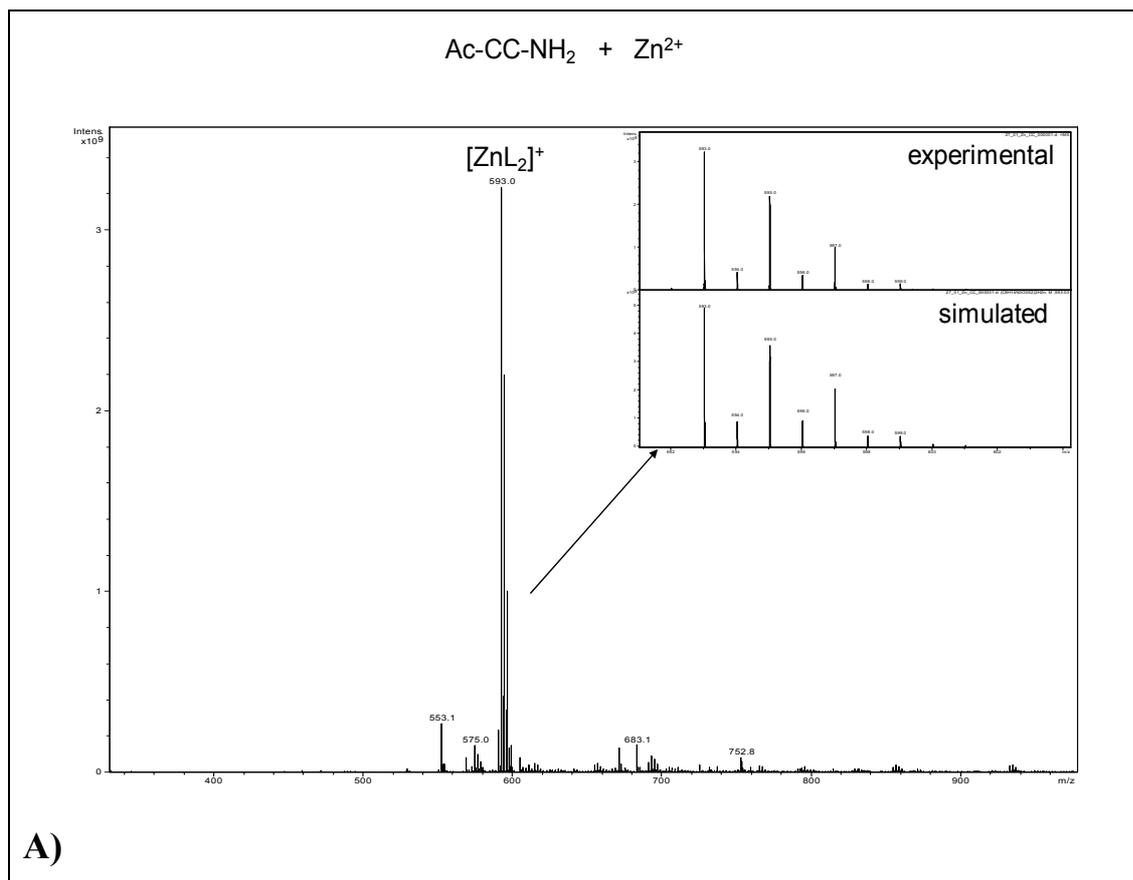


Fig. S8. Mass spectra of a system containing Bi³⁺ ions and A) Ac-CC-NH₂, B) Ac-GSCCHTGNHD-NH₂, C) Ac-EEGCCHGHE-NH₂, and D) Ac-CCSTSDSHHQ-NH₂ in a 1:2 stoichiometry.



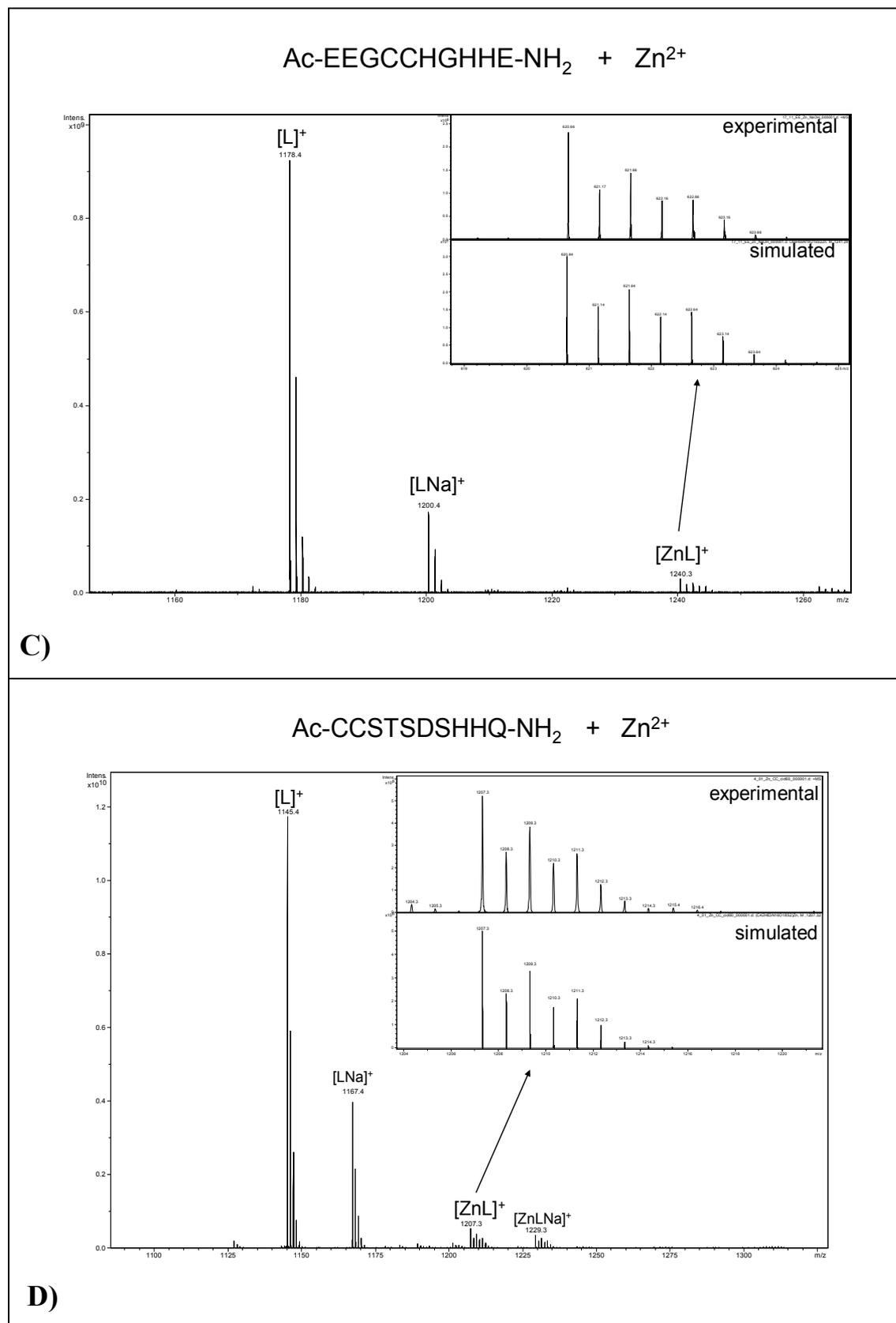
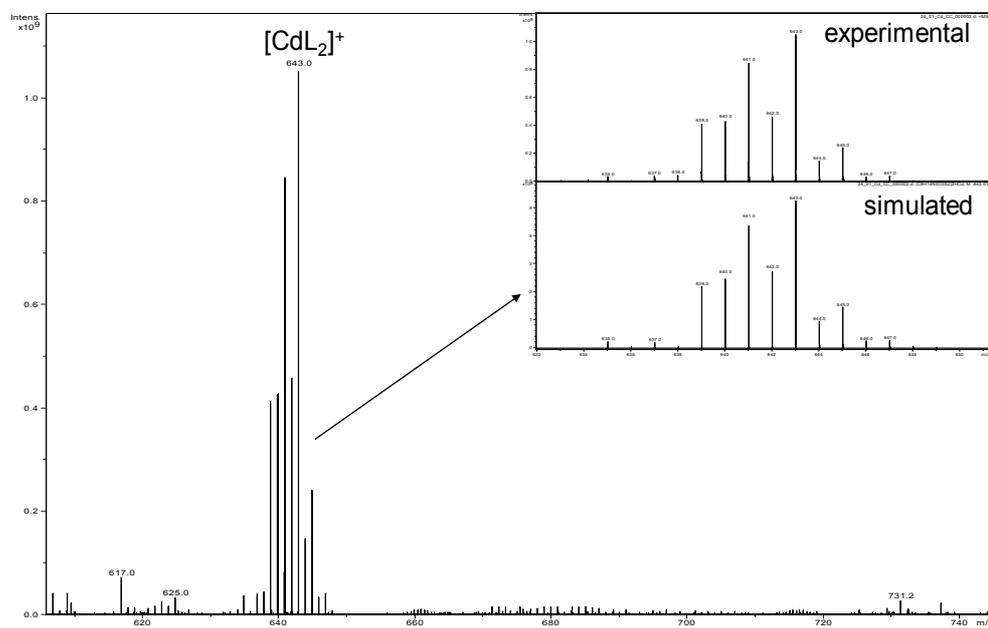
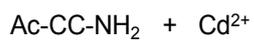
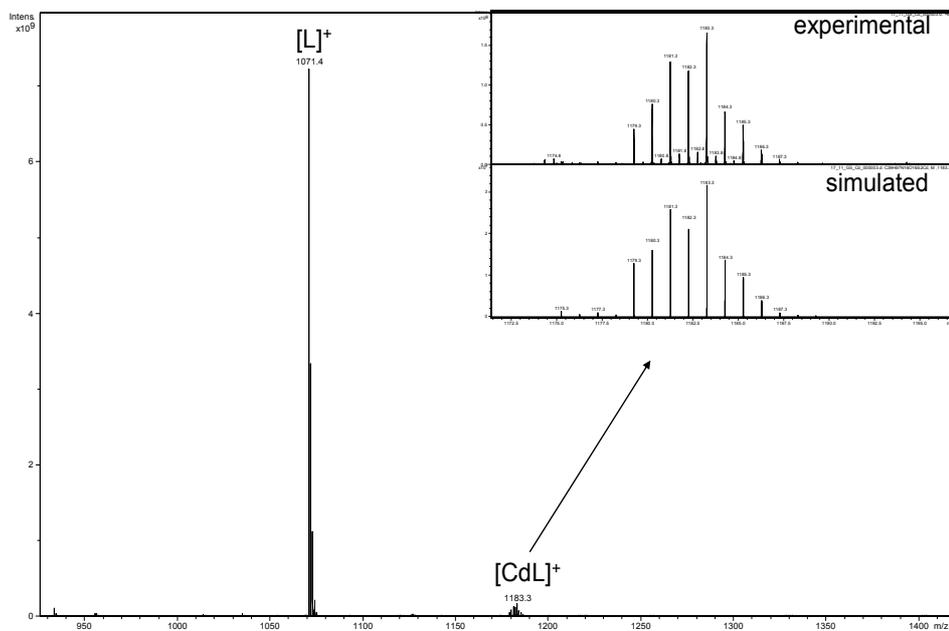


Fig. S9. Mass spectra of a system containing Zn²⁺ ions and A) Ac-CC-NH₂, B) Ac-GSCCHTGNHD-NH₂, C) Ac-EEGCCHGHHE-NH₂, and D) Ac-CCSTSDSHHQ-NH₂ in a 1:1 stoichiometry.



A)



B)

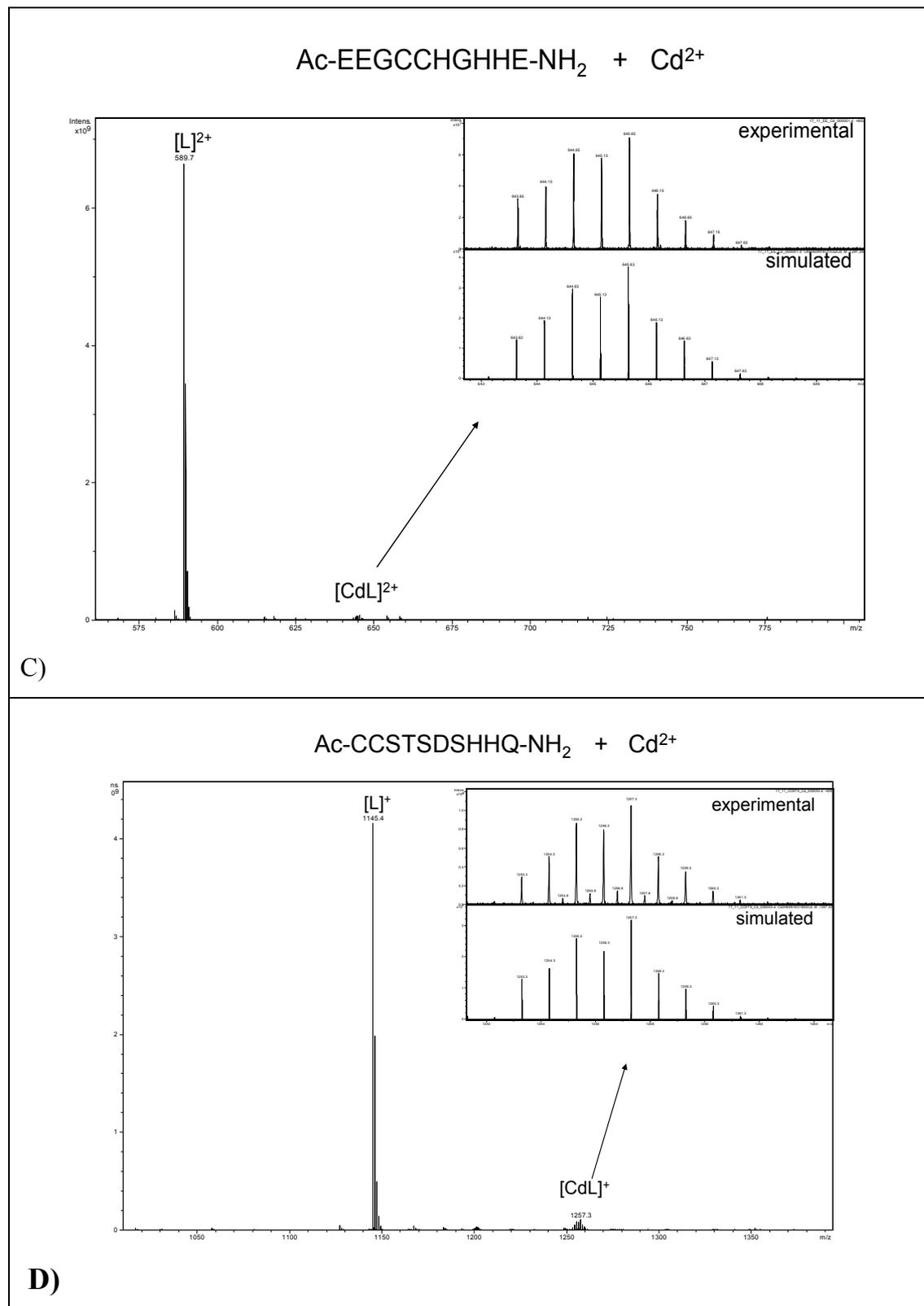


Fig. S10. Mass spectra of a system containing Cd²⁺ ions and A) Ac-CC-NH₂, B) Ac-GSCCHTGNHD-NH₂, C) Ac-EEGCCHGHHE-NH₂, and D) Ac-CCSTSDSHHQ-NH₂ in a 1:1 stoichiometry.