

Supporting Information:

Synthesis and Characterization of new modified silica coated magnetite nanoparticles with bisaldehyde as selective adsorption of Ag (I) from aqueous samples

Alireza Banaei,^{*a} Hossein Vojoudi,^a Soheyla Karimi,^a Shahriyar Bahar,^a Eslam Pourbasheer^a

^a Department of Chemistry, Payame Noor University, Tehran, Iran, P.O. Box 19395-4697; Tel: +984533515004; E-mail:

banaei@pnu.ac.ir

CONTENTS

Figure S1. FT-IR spectra for *MNPs*

Figure S2. FT-IR spectra for *SCMNPs*

Figure S3. FT-IR spectra for *APTSCMNPs*

Figure S4. FT-IR spectra for BISA- *APTSCMNPs* (Normal method)

Figure S5. FT-IR spectra for BISA- *APTSCMNPs* (Vice versa method)

Figure S6. Hysteresis loops of the *MNPs* nanoparticles at room temperature using VSM

Figure S7. Hysteresis loops of the *SCMNPs* nanoparticles at room temperature using VSM

Figure S8. Hysteresis loops of the *APTSCMNPs* nanoparticles at room temperature using VSM

Figure S9. Hysteresis loops of the BISA- *APTSCMNPs* (Normal method) nanoparticles at room temperature using VSM

Figure S10. Hysteresis loops of the BISA- *APTSCMNPs* (Vice versa method) nanoparticles at room temperature using VSM

Figure S11. The Uv-vis spectra of the *MNPs*

Figure S12. The Uv-vis spectra of the *SCMNPs*

Figure S13. The Uv-vis spectra of the *APTSCMNPs*

Figure S14. The Uv-vis spectra of the BISA- *APTSCMNPs* (Normal method)

Figure S15. The Uv-vis spectra of the BISA- *APTSCMNPs* (Vice versa method)

Supporting Information

Figure S1. FT-IR spectra for *MNPs*

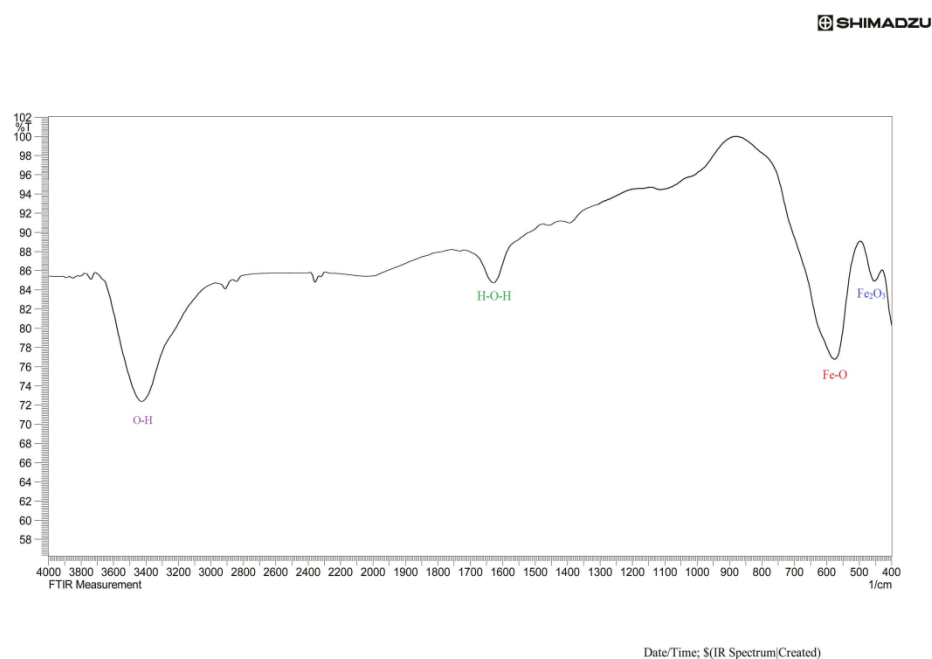


Figure S2. FT-IR spectra for *SCMNPs*

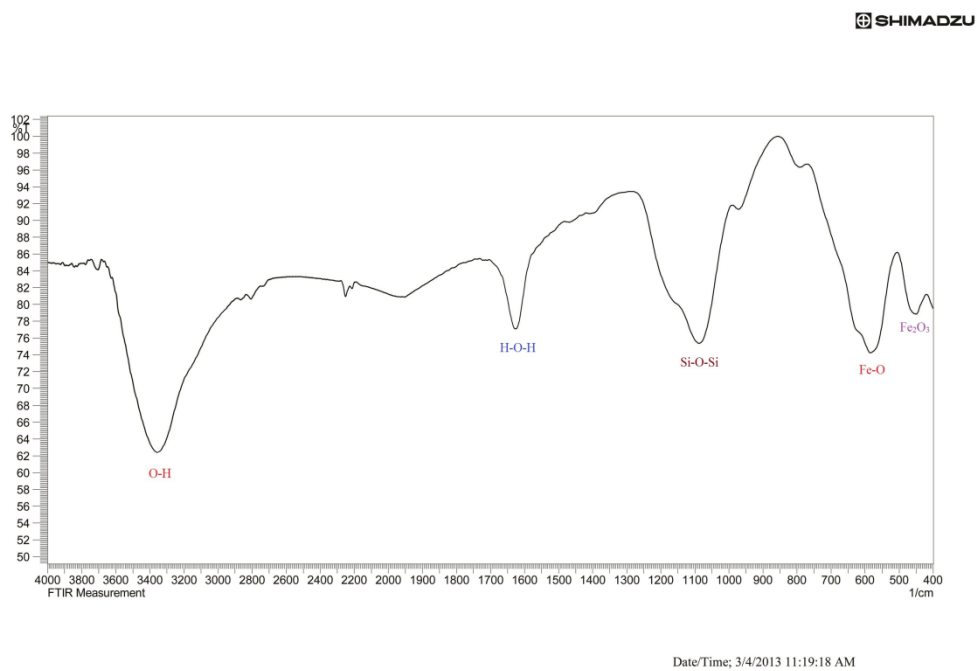


Figure S3. FT-IR spectra for *APTSCMNPs*

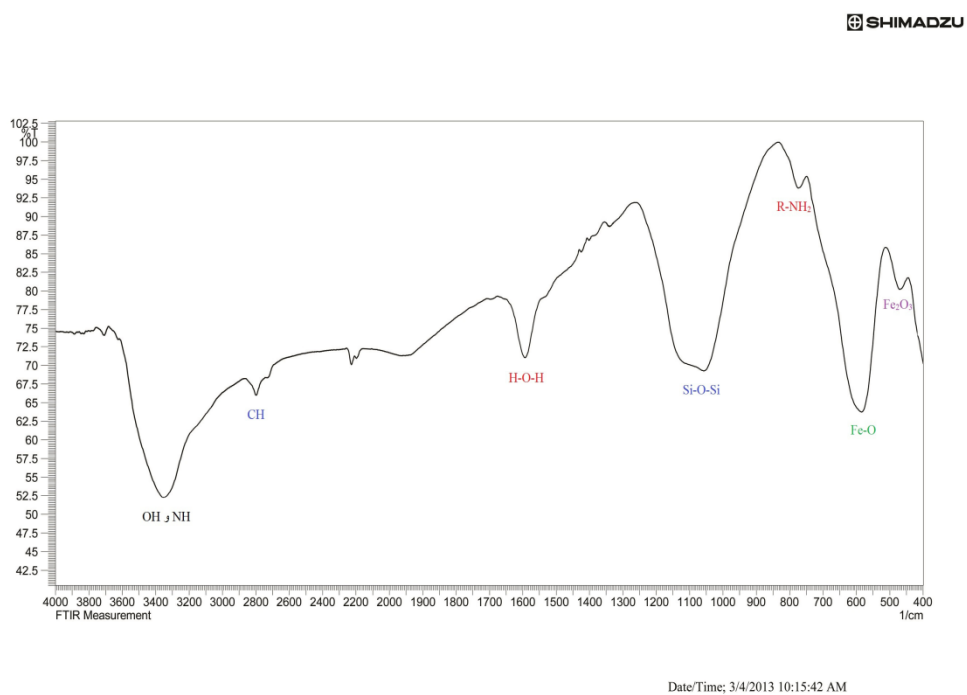
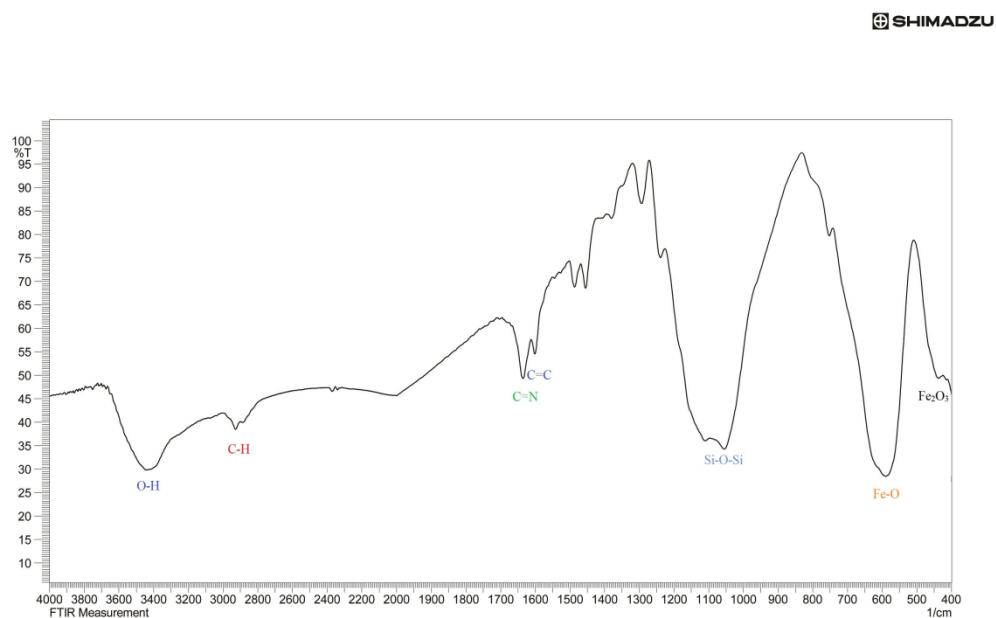


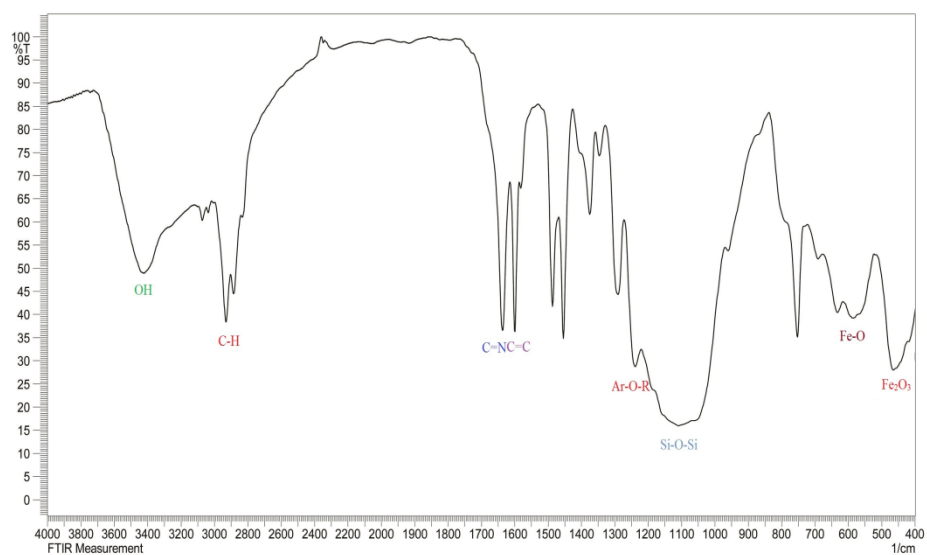
Figure S4. FT-IR spectra for BISA- *APTSCMNPs* (Normal method)



Date/Time; 3/7/2013 1:09:47 PM

Figure S5. FT-IR spectra for BISA- *APTSCMNPs* (Vice versa method)

SHIMADZU



Date/Time; 6/18/2013 1:35:19 PM

Figure S6. Hysteresis loops of the *MNPs*

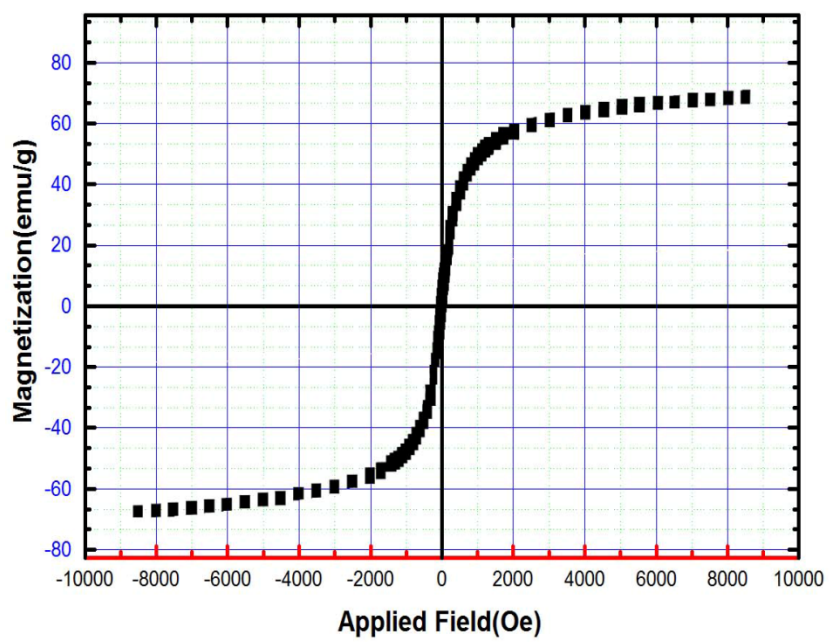


Figure S7. Hysteresis loops of the *SCMNPs*

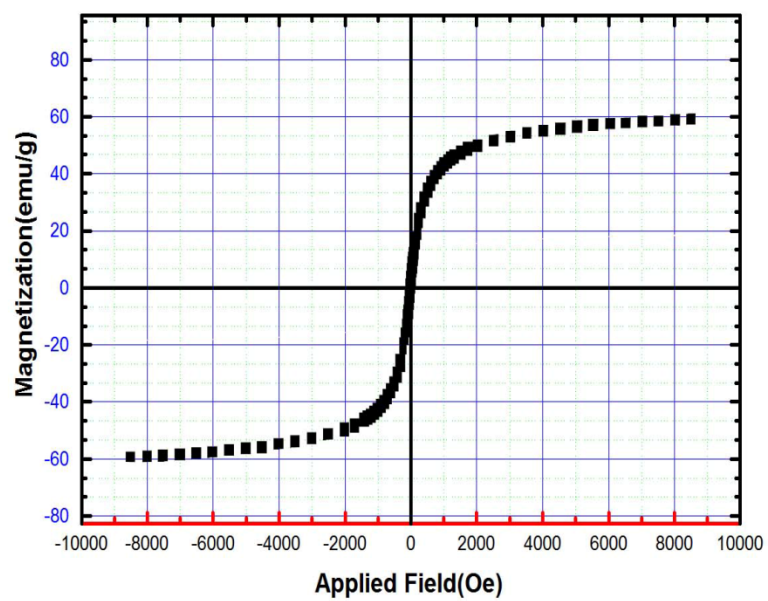


Figure S8. Hysteresis loops of the *APTSCMNP*s

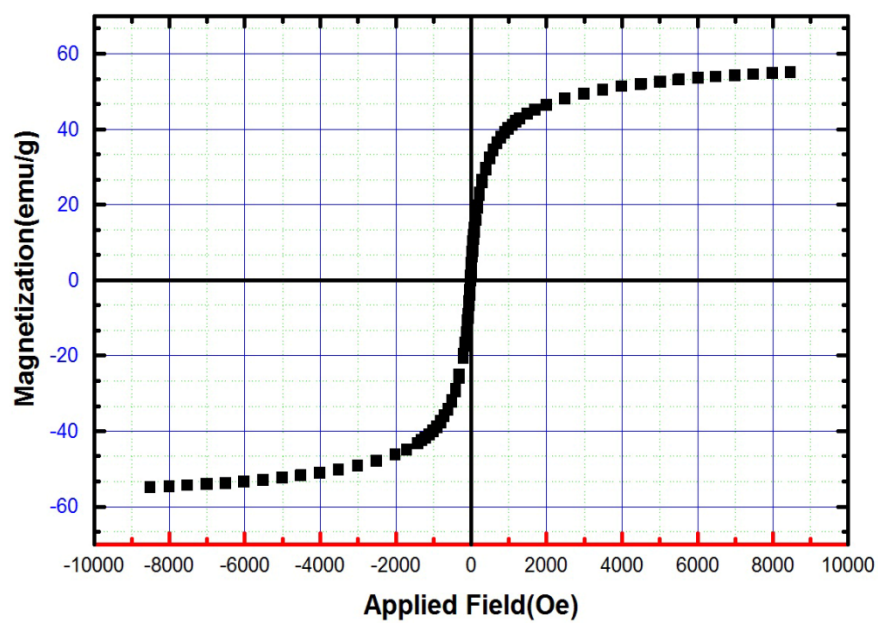


Figure S9. Hysteresis loops of the BISA- *APTSCMNP*s (Normal method)

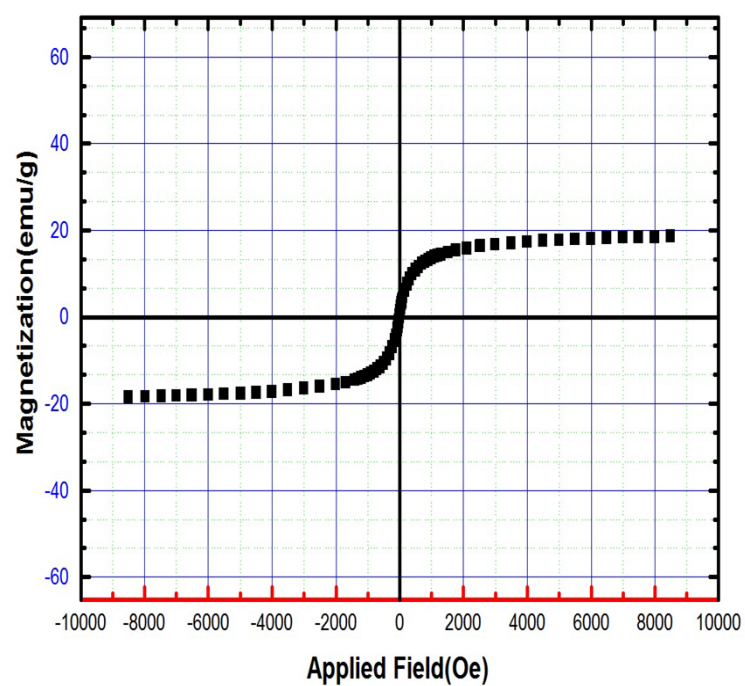


Figure S10. Hysteresis loops of the BISA- *APTSCMNP*s (Vice versa method)

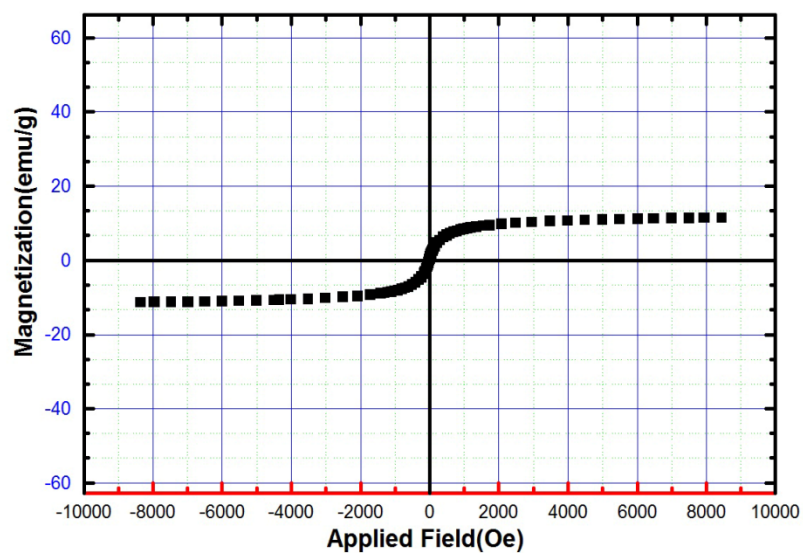


Figure S11. The Uv-vis spectra of the *MNPs*

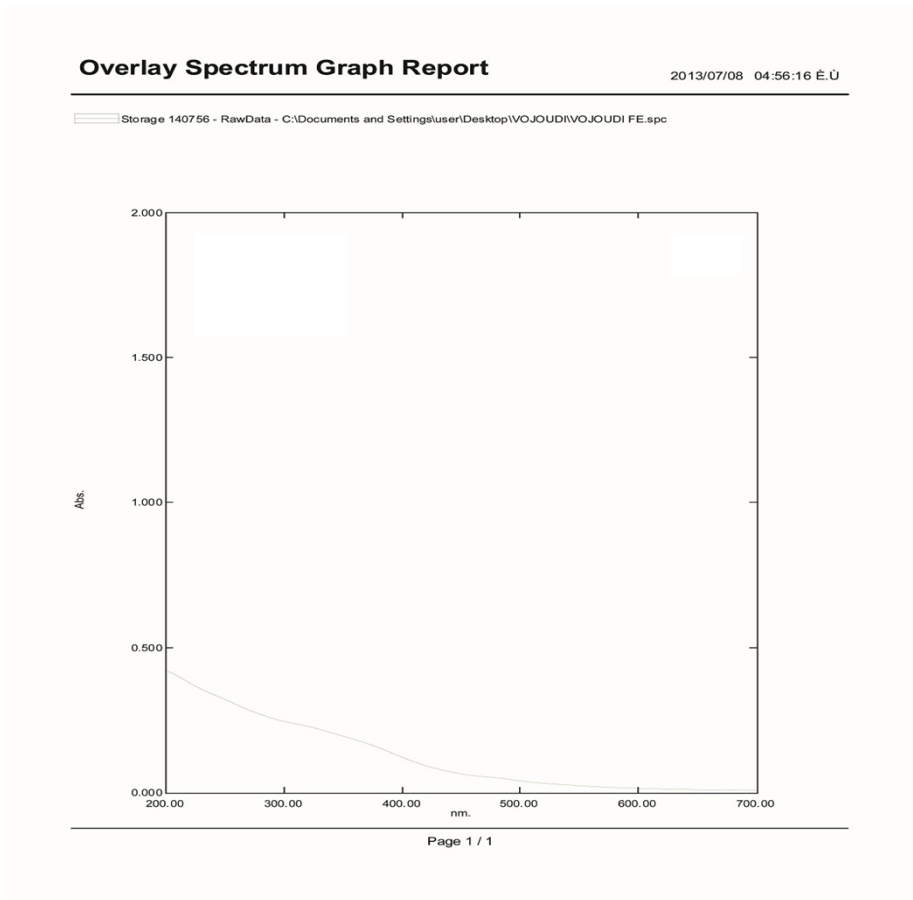


Figure S12. The Uv-vis spectra of the *SCMNPs*

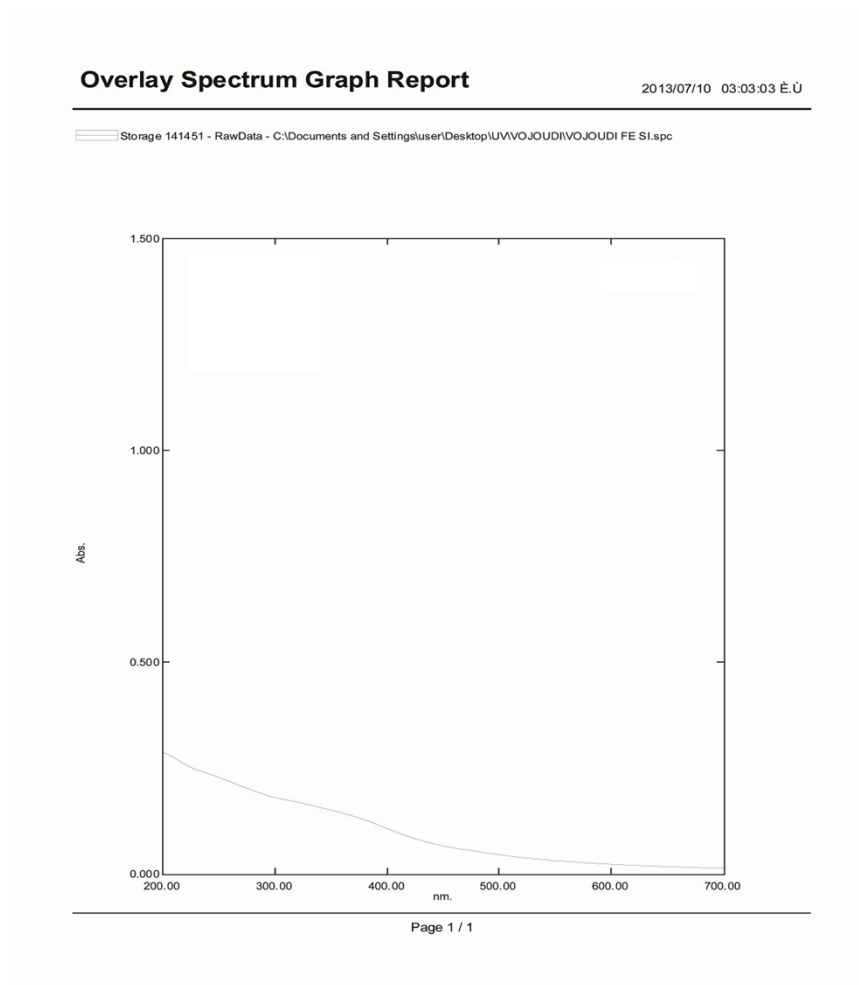


Figure S13. The Uv-vis spectra of the *APTSCMNP*s

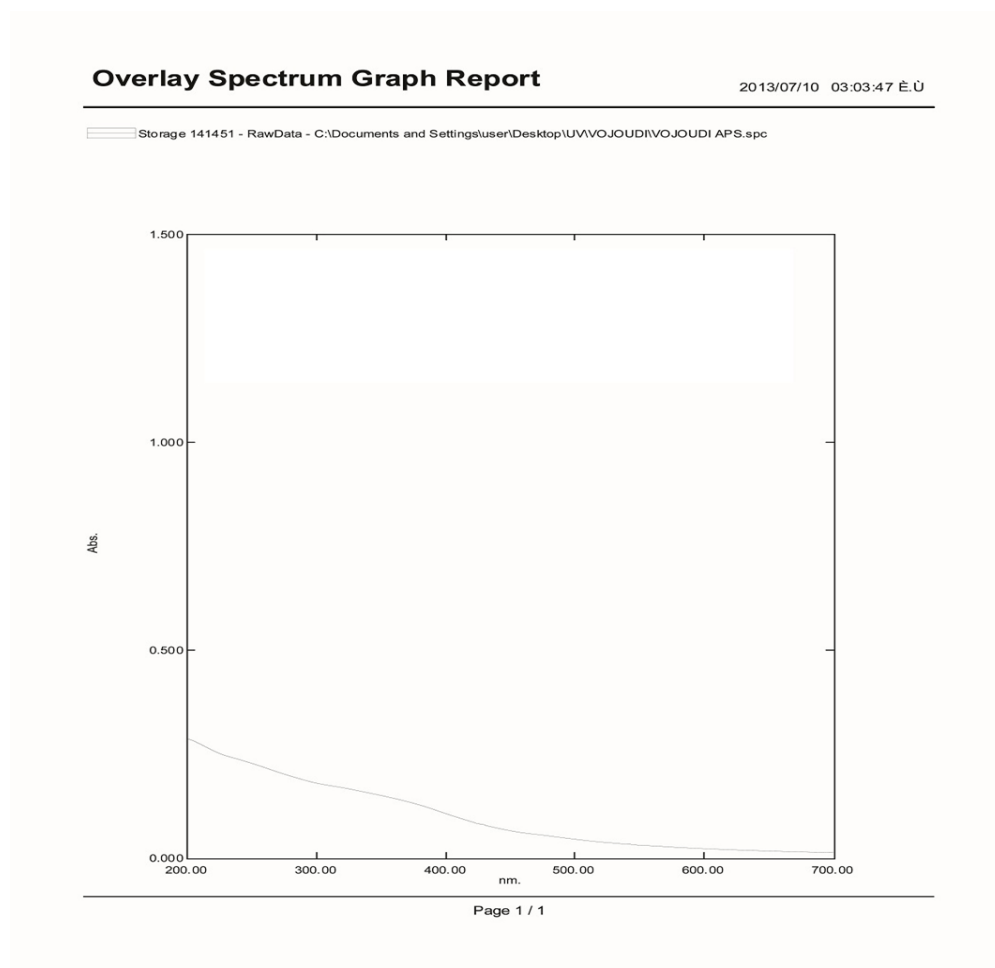


Figure S14. The Uv-vis spectra of the BISA- *APTSCMNPs* (Normal method)

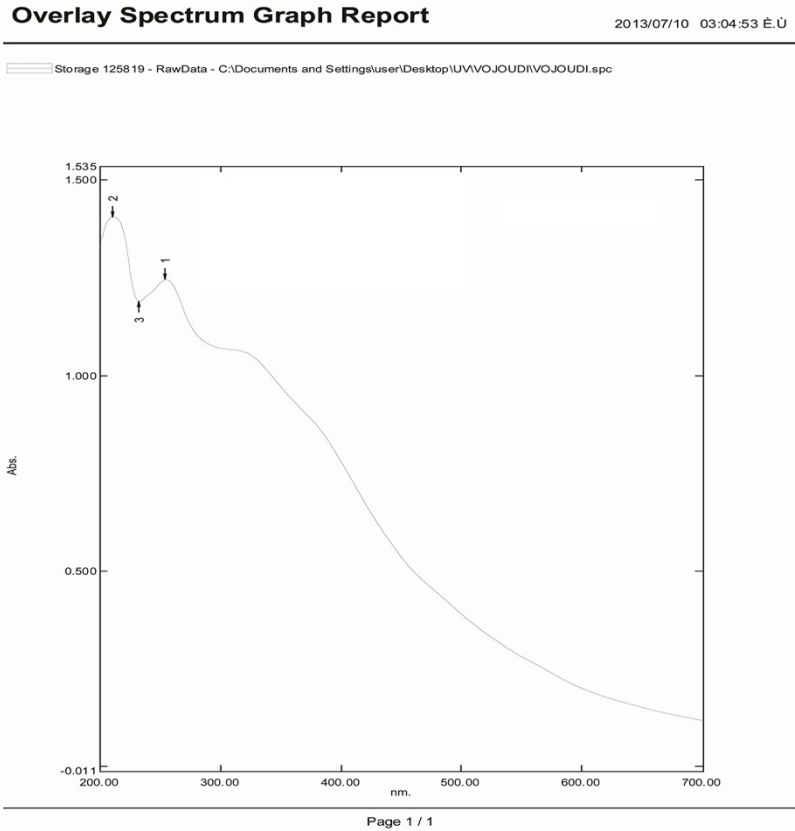


Figure S15. The Uv-vis spectra of the BISA- *APTSCMNPs* (Vice versa method)

