

Supporting Information

Fast microwave-assisted conjugation of magnetic nanoparticles with carboxylates of biological interest

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1. Characterization

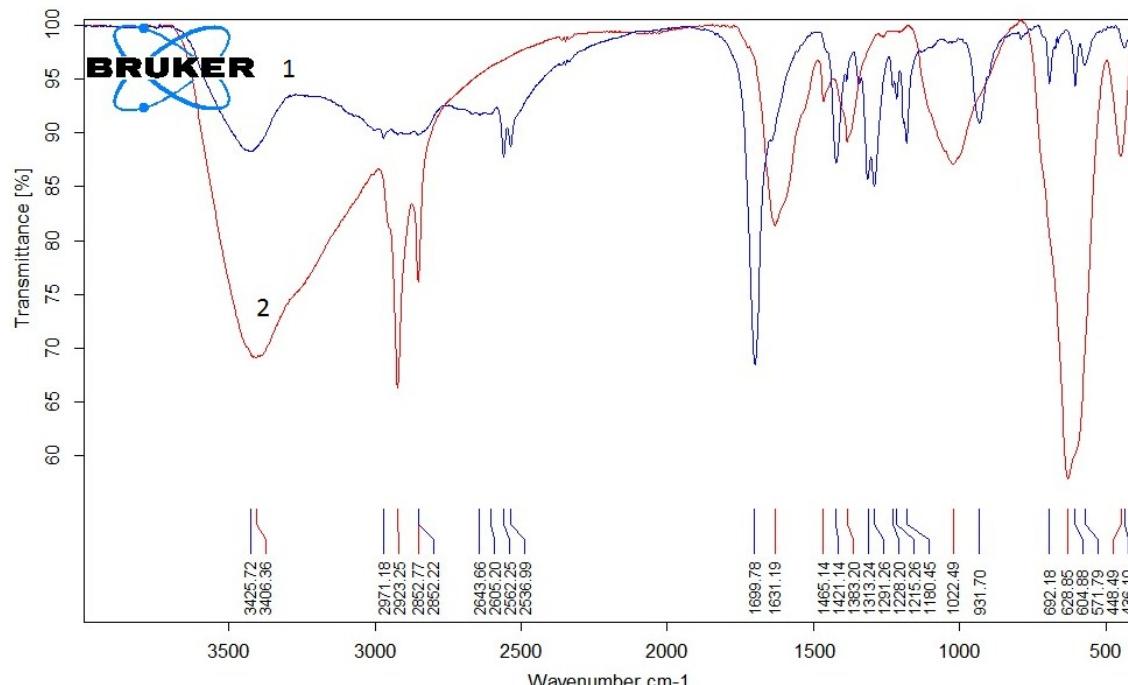


Figure S1. FTIR of Fe₃O₄-NP-APTES-DMSA. (1) DMSA free, (2) Fe₃O₄-NP-APTES-DMSA.

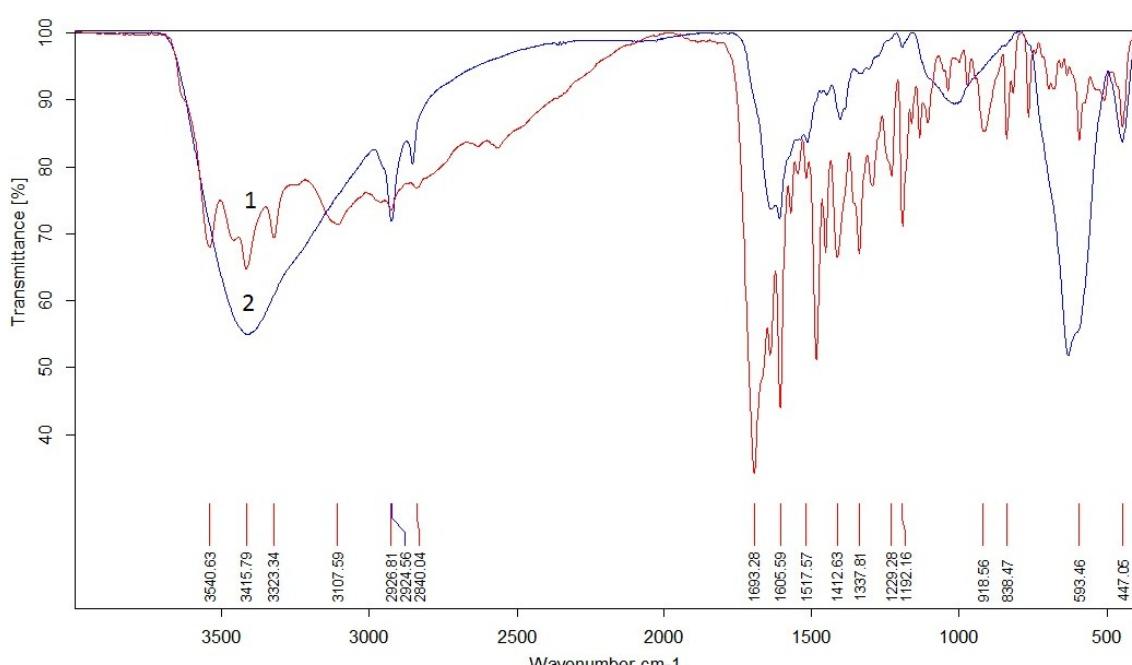


Figure S2. FTIR of Fe₃O₄-NP-APTES-FA. (1) FA free, (2) Fe₃O₄-NP-APTES-FA.

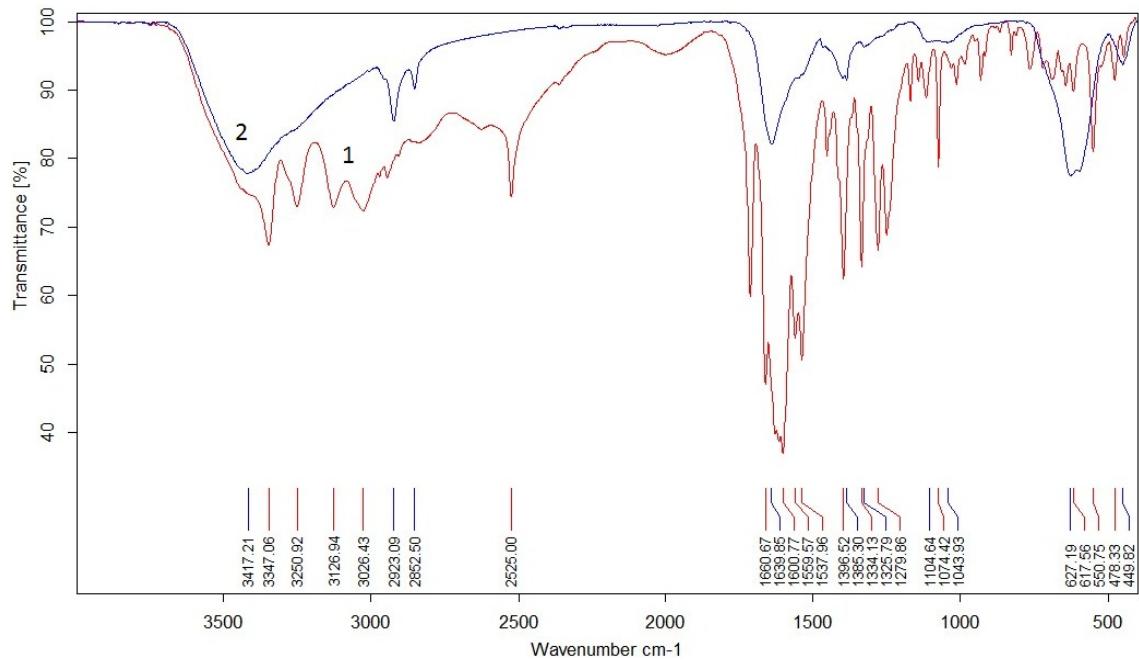


Figure S3. FTIR of NP Fe_3O_4 -NP-APTES-GSH. (1) GSH free, (2) Fe_3O_4 -NP-APTES-GSH.

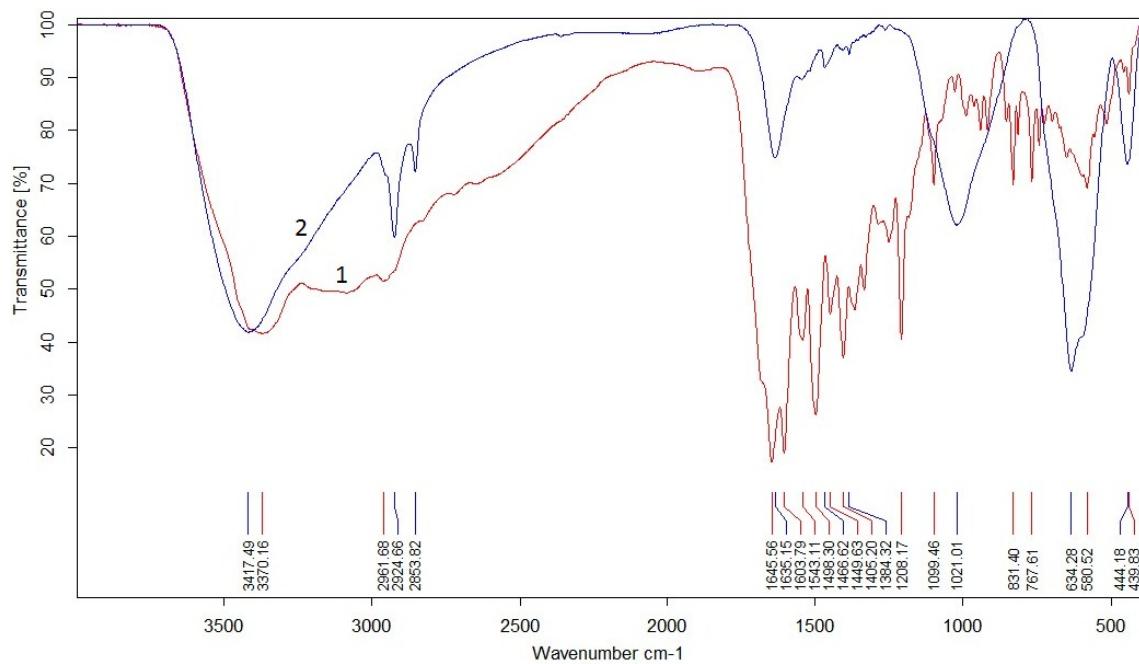


Figure S4. Fe_3O_4 -NP-APTES-MTX. (1) MTX free, (2) Fe_3O_4 -NP-APTES-MTX.

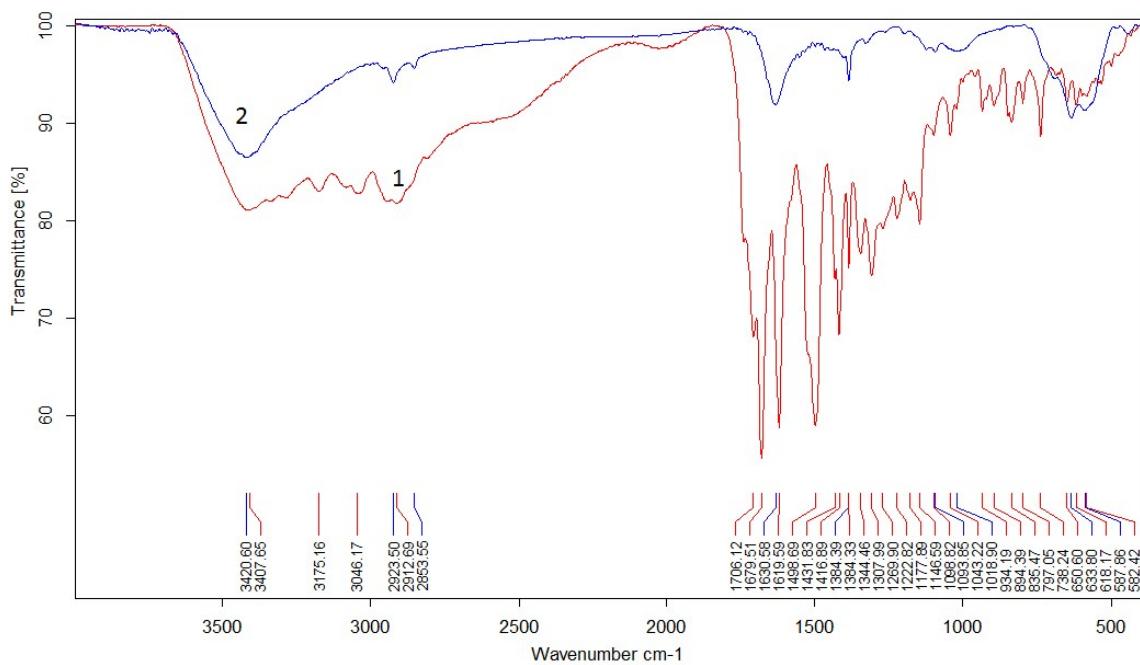


Figure S5. FTIR of Fe_3O_4 -NP-APTES-RTX. (1) RTX free, (2) Fe_3O_4 -NP-APTES-RTX.

2. Thermogravimetric analysis

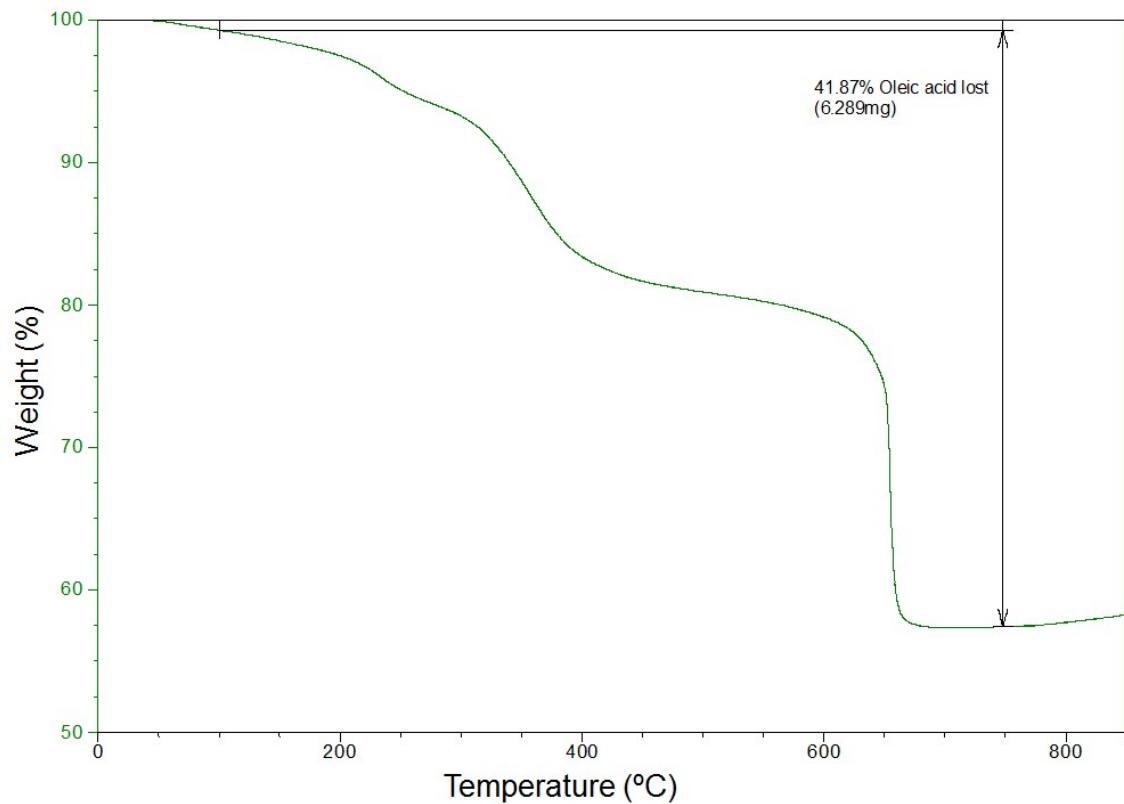


Figure S6. TGA of Fe_3O_4 -NP-oleic acid

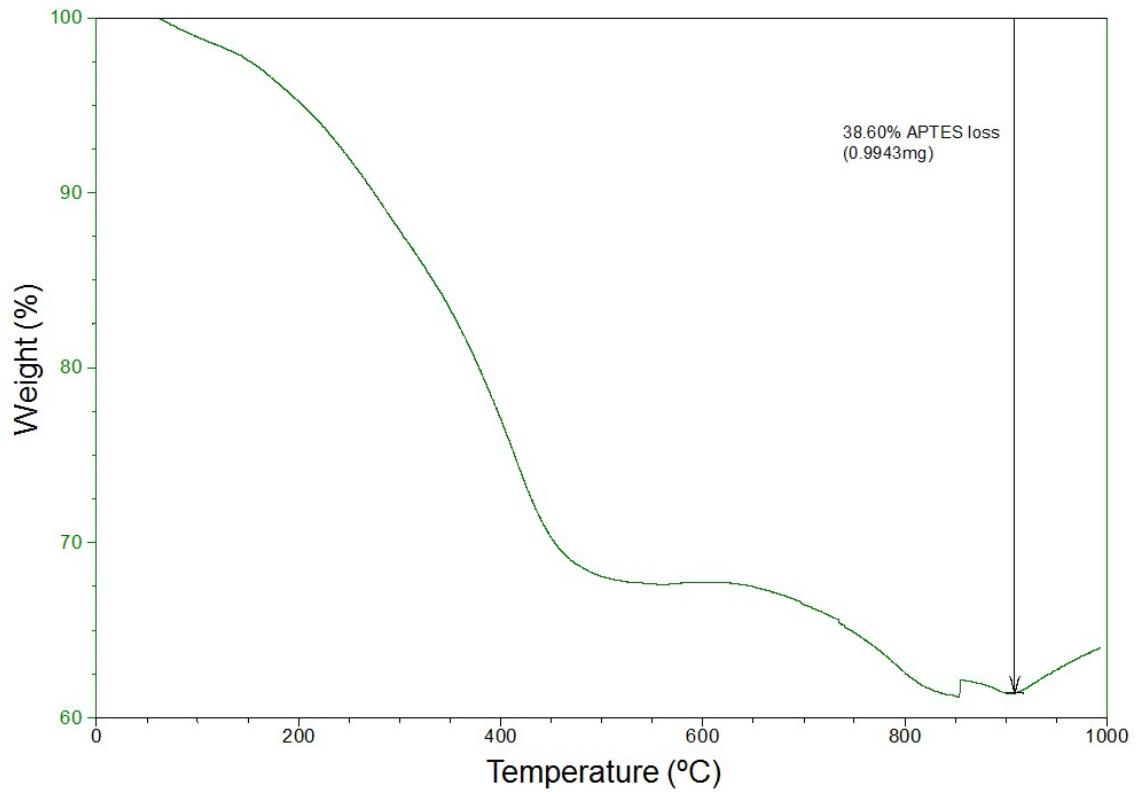


Figure S7. TGA of Fe_3O_4 -NP-APTES via microwave.

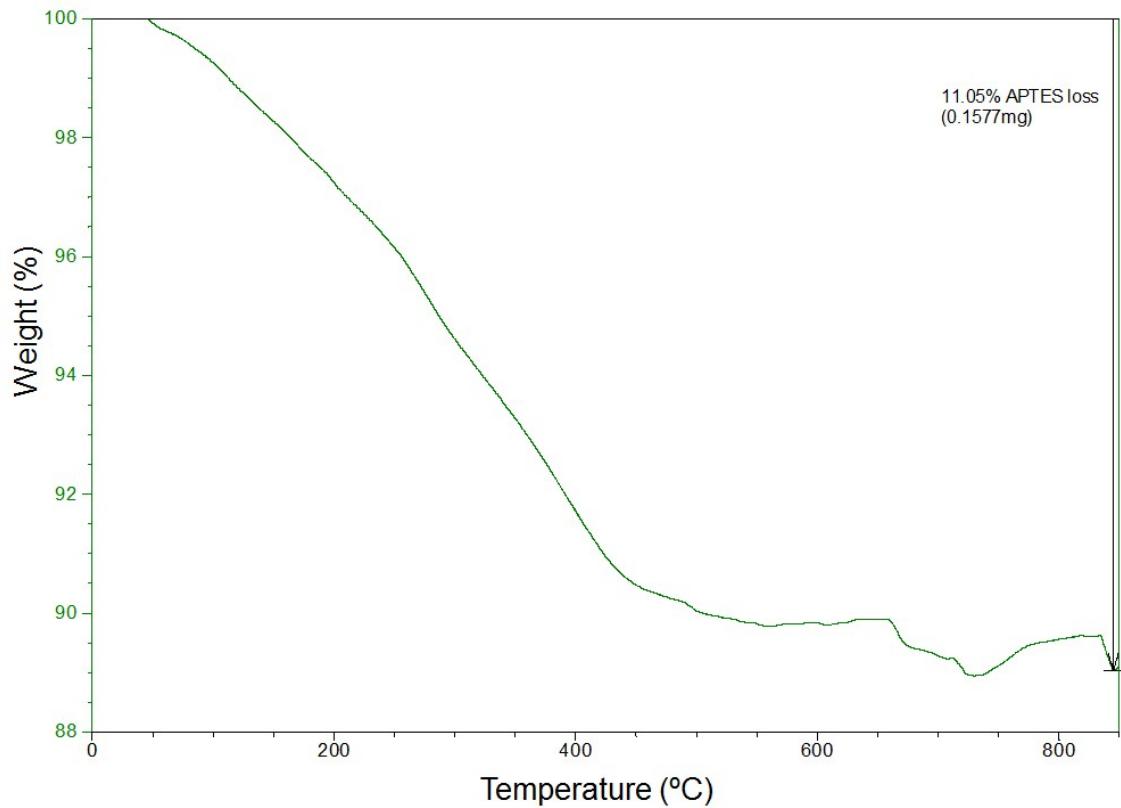


Figure S8. TGA of Fe_3O_4 -NP-APTES via traditional.

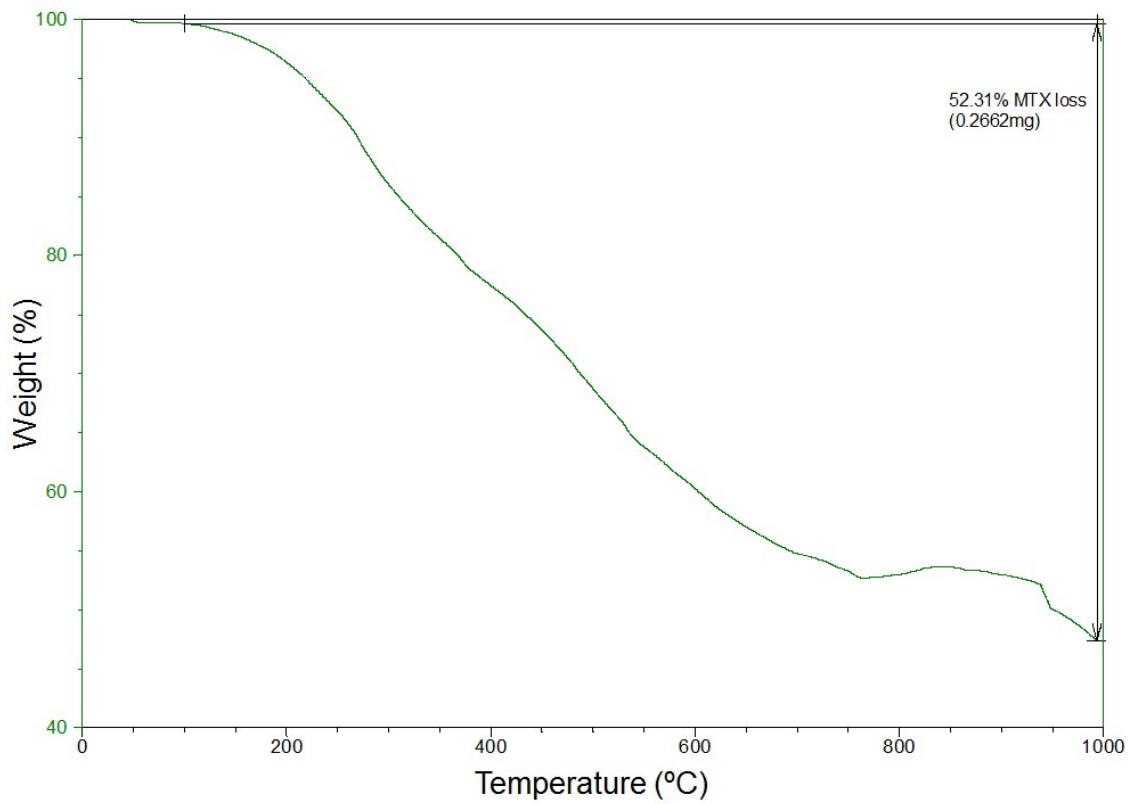


Figure S9. TGA of Fe_3O_4 -NP-APTES-MTX via microwave.

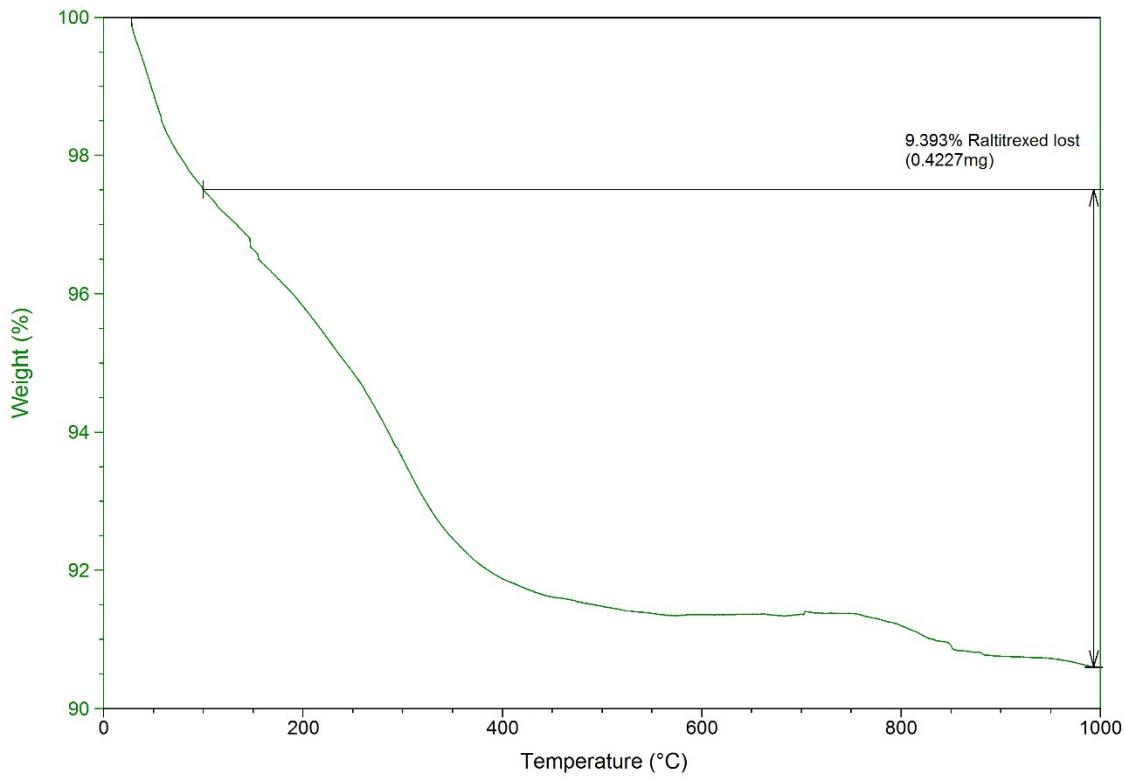


Figure S10. TGA of Fe_3O_4 -NP-APTES-RTX via traditional.

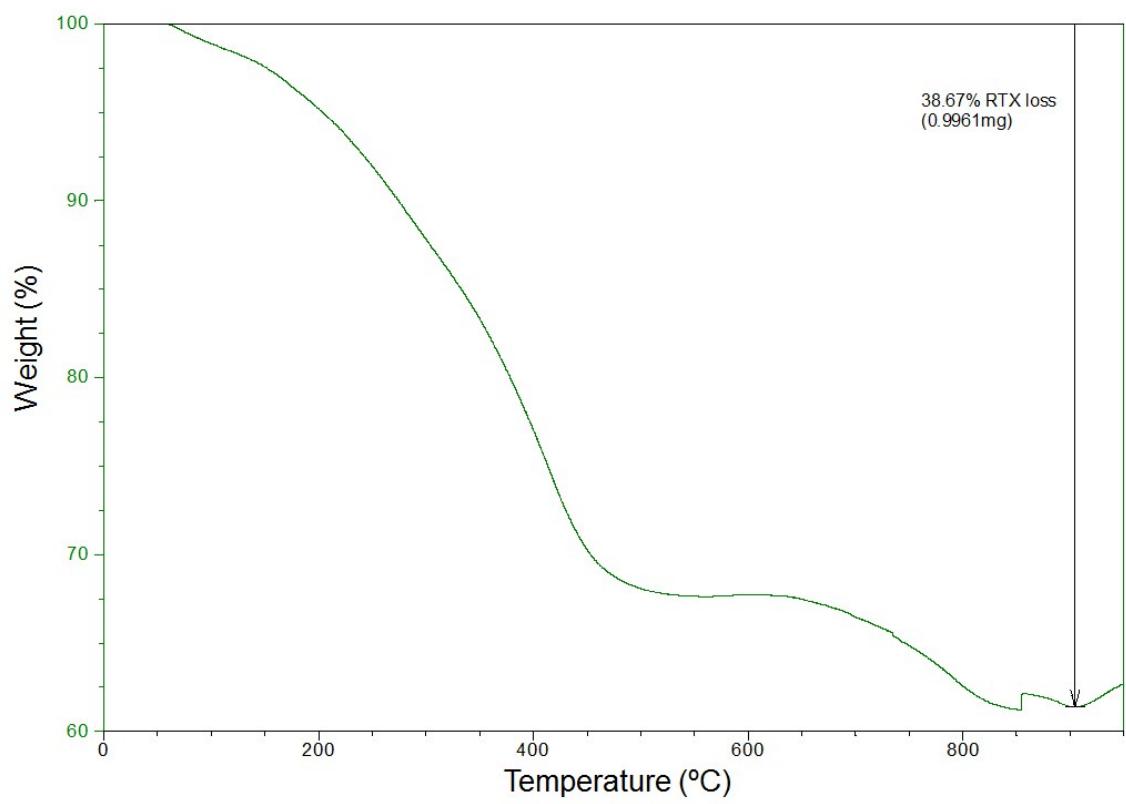


Figure S11. TGA of Fe_3O_4 -NP-APTES-RTX via microwave.

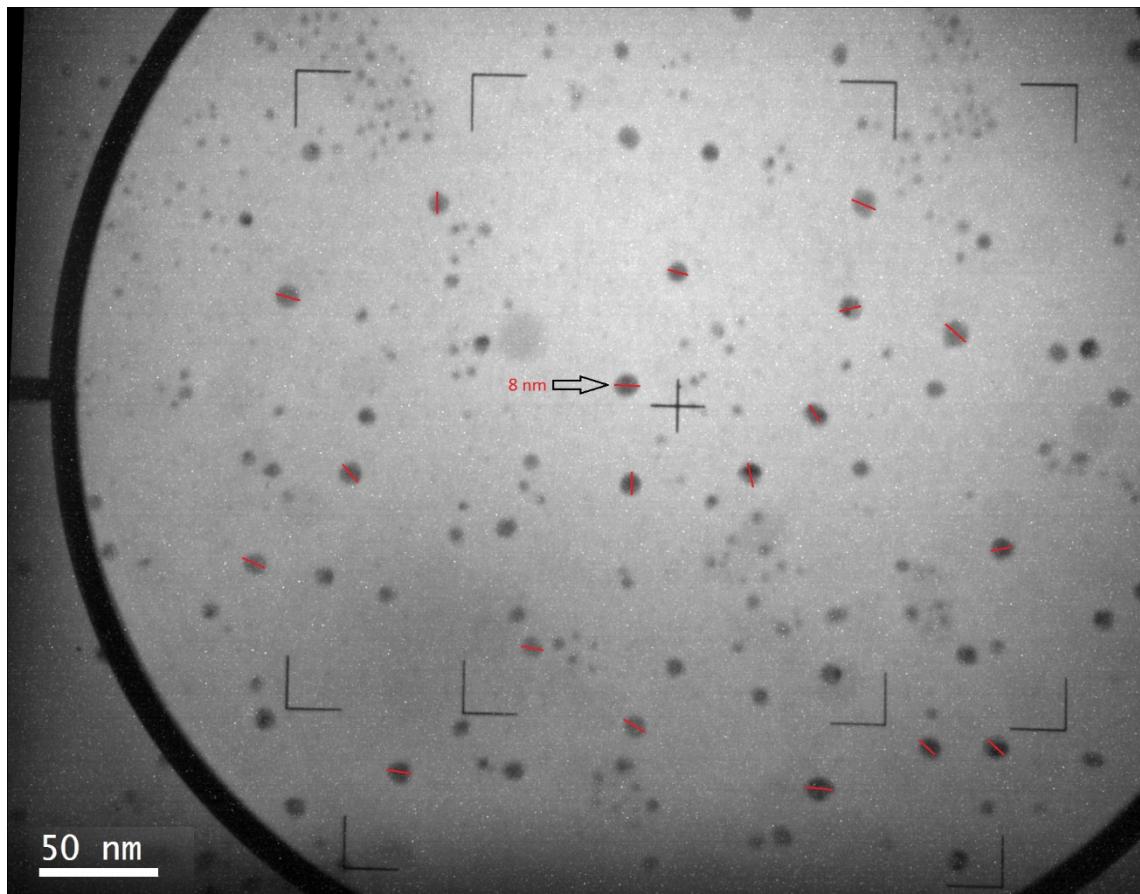


Figure S12. TEM microphotograph of Fe_3O_4 -NP-Oleic acid.

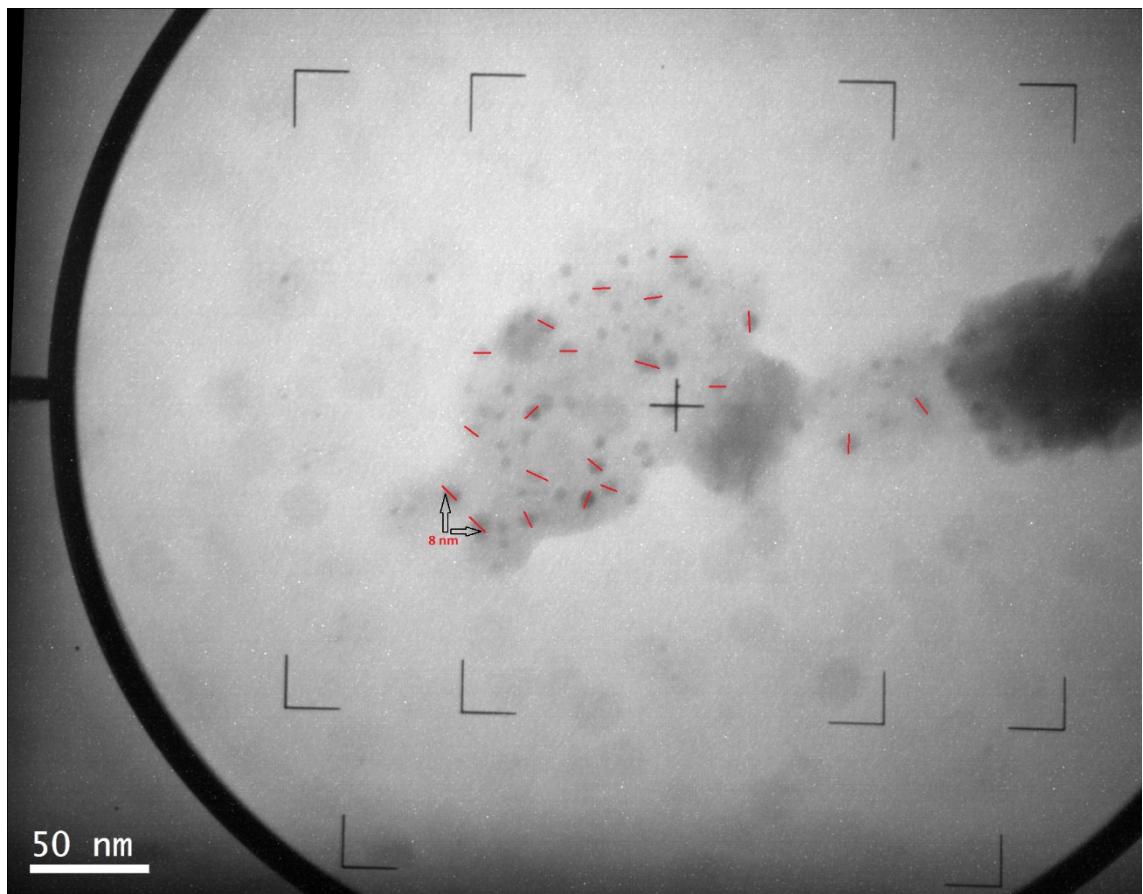


Figure S13. TEM microphotograph of Fe_3O_4 -NP-FA.