

Electronic Supplementary Information

Polymer based silver nanocomposites as versatile solid film and aqueous emulsion SERS substrates

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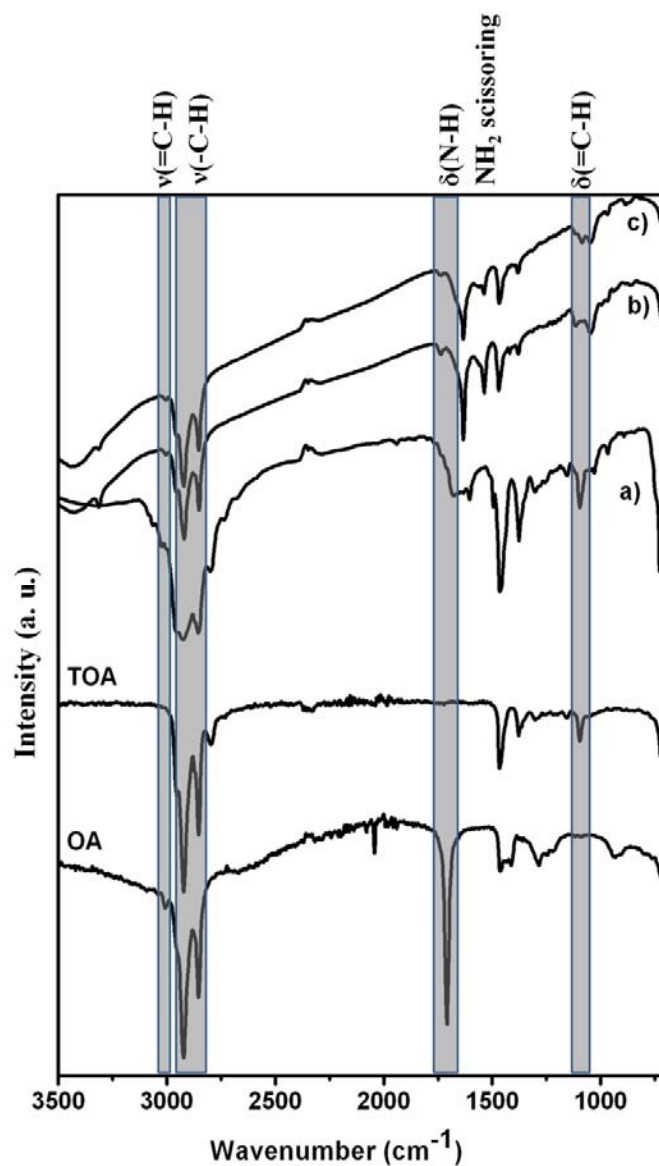


Figure S1: FT-IR spectra of organically capped silver nanocrystals; a) Ag/TOA/OA; b) Ag/OA(EG); c) Ag/OA (TOA: trioctylamine; OA: oleylamine).

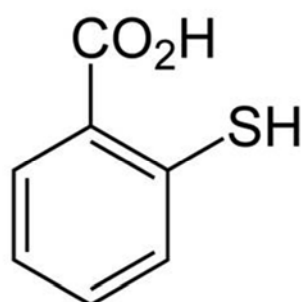


Figure S2: Structural formula for thiosalicylic acid (or mercaptobenzoic acid).

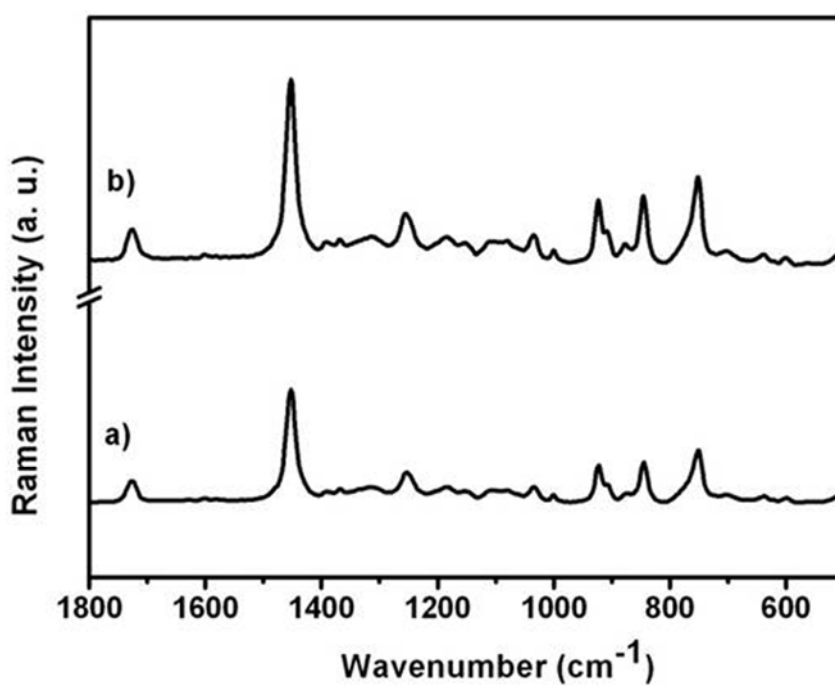


Figure S3: a) FT-Raman spectrum of poly(t-butylacrylate) b) FT-Raman spectrum from a drop of thiosalicylic in poly(t-butylacrylate) as substrate.

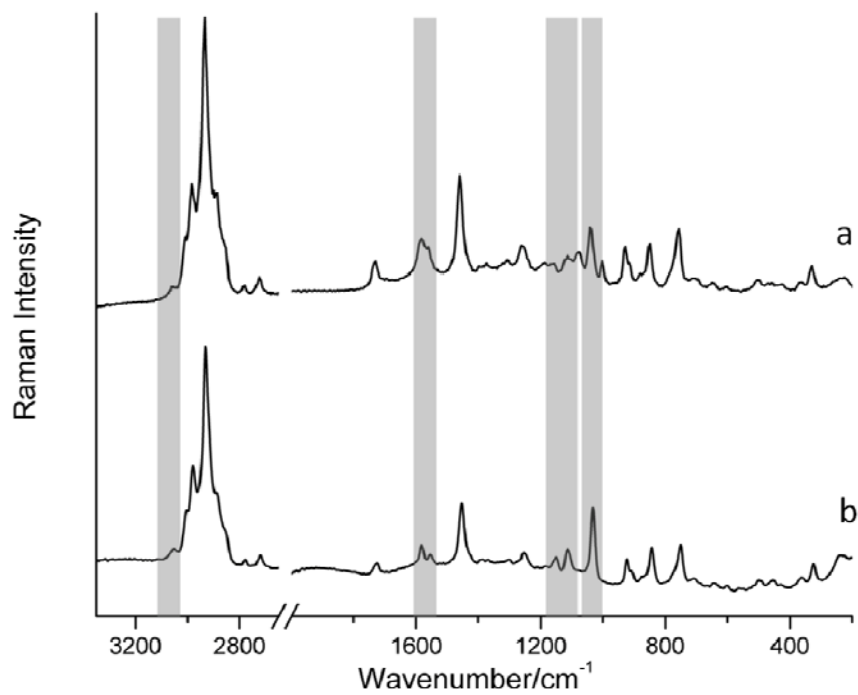


Figure S4: Raman spectrum recorded with a 532 nm laser (a) and FT-Raman spectrum recorded with a 1064 nm laser (b) of a thiosalicylic acid aqueous solution (10^{-3} M) dropped in Ag/PtBA solid film showing the SERS signal of the analyte (shadow regions).

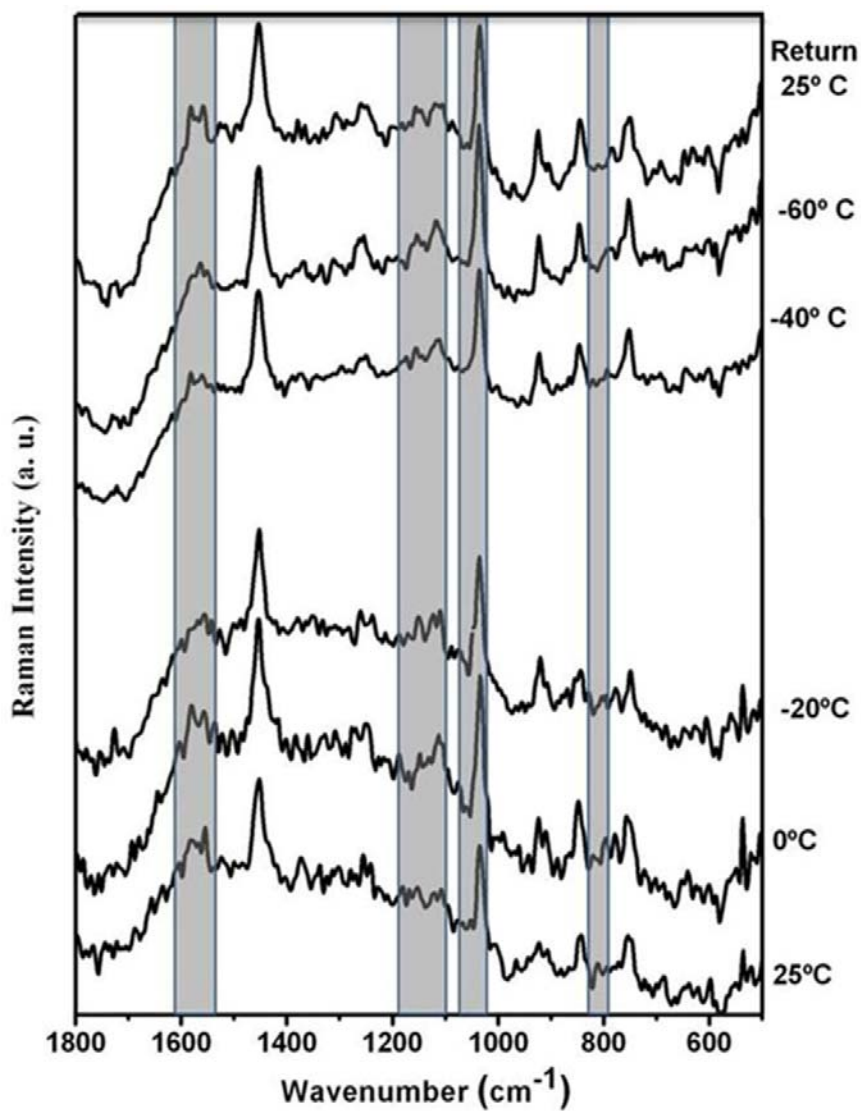


Figure S5: SERS spectra for thiosalicylic acid in a Ag/PtBA film recorded at variable temperatures.