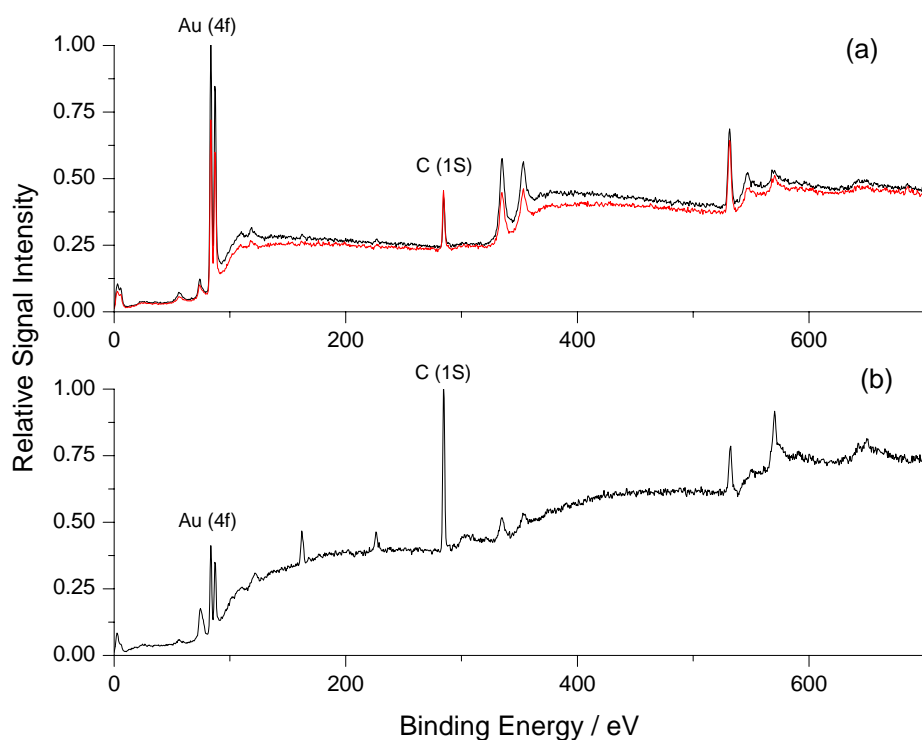


Supporting Information – XPS spectra

XPS spectra of C₆H₁₃-SAMs, as prepared freshly out of solution ((a) red line); in the vacuum chamber at the base pressure for 2.5 hours ((a) black line); and exposed to NO₂ in reaction chamber for ~ 1 hr ((b) black line).

The spectra show that the SAM composition is effectively unchanged, relative to a freshly prepared sample, through being in vacuum with no NO₂ present. Exposure to NO₂ results in obvious alterations to the composition, with the C (1s) peak now dominating over the Au (4f) peak.