

Figure 1. *In-situ* FTIR differential spectra of a film grown for 20 ALD cycles using $\text{Sc}(\text{MeCp})_2(\text{Me}_2\text{pz})$ and ozone on $\text{Si}(111)\text{-SiO}_2\text{-OH}$ at 275 °C. Each spectrum is referenced to the spectrum from the previous ALD half-cycle. The plot shows the ligand exchange process after cycles 1, 2, and 18.

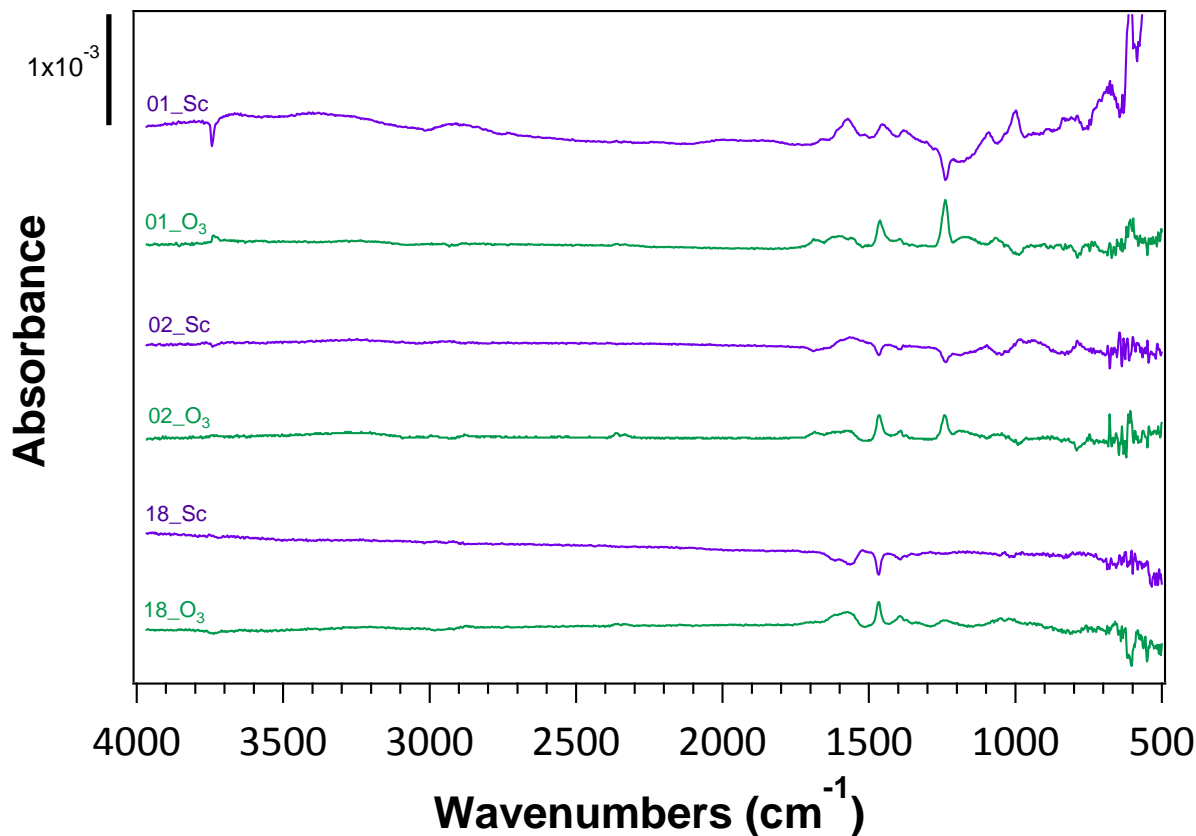


Figure 2. XPS Sc 2s and 2p ionization regions of a film grown for 20 ALD cycles using $\text{Sc}(\text{MeCp})_2(\text{Me}_2\text{pz})$ and ozone on $\text{Si}(111)\text{-SiO}_2\text{-OH}$ at 275 °C. The film was sputtered using 1 keV Ar^+ ions.

