



Figure S2. Spatial evolution of virus particles at progressively more acidic pH. Topography (black & white), scale bar 100 nm and near-field amplitude (A_3) and phase (ϕ_3) images of four virus particles at progressively lower pH (left to right). Spectral images taken at (a) 1225 cm^{-1} . The columns i-v in the topography represent successively decreasing pH from neutral (i) to pH 2 (v).