



Figure S1: Examples of EDX spectra for the aerosol particle types observed (A) single particle containing neither Na^+/K^+ nor $\text{Ca}^{2+}/\text{Mg}^{2+}$ (B) “*aggregate*” particle containing Na^+/K^+ (C) “*aggregate with film*” particle containing Na^+ and minor contents of $\text{Ca}^{2+}/\text{Mg}^{2+}$ (D) “*mucus-like*” particle containing $\text{Ca}^{2+}/\text{Mg}^{2+}$ and minor contents of Na^+ (E) halo particle containing Na^+/K^+ and S probably in the satellite particles (F) blank spectrum taken from a Pt-shadowed TEM grid