

Exploring Pt-Pd Alloy Nanoparticle Cluster Formation through Conventional Sizing Techniques and Single-Particle Inductively Coupled Plasma—Sector Field Mass Spectrometry

Omar Martinez-Mora ^{1,2}, Kristof Tirez ¹, Filip Beutels ¹, Wilfried Brusten ¹, Luis F. Leon-Fernandez ¹, Jan Fransaer ², Xochitl Dominguez-Benetton ¹ and Milica Velimirovic ^{1,*}

SUPPLEMENTARY INFORMATION

Pt₇₅-Pd₂₅

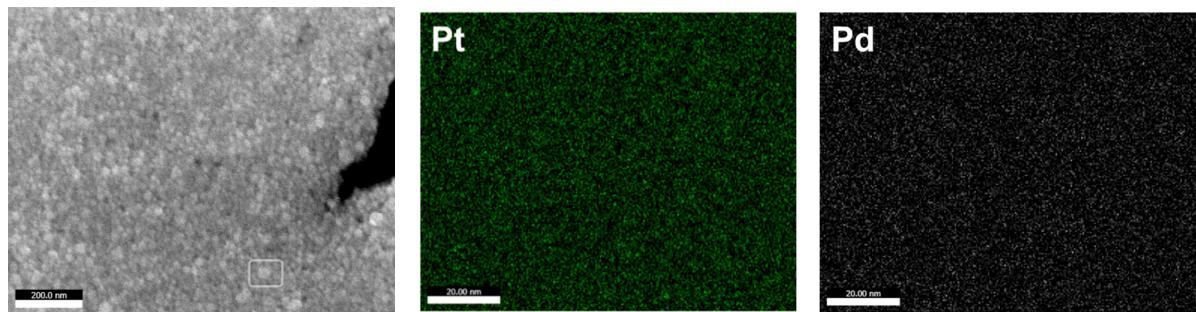


Figure S1. SEM-EDS mapping of Pt₇₅-Pd₂₅

Sum Spectrum

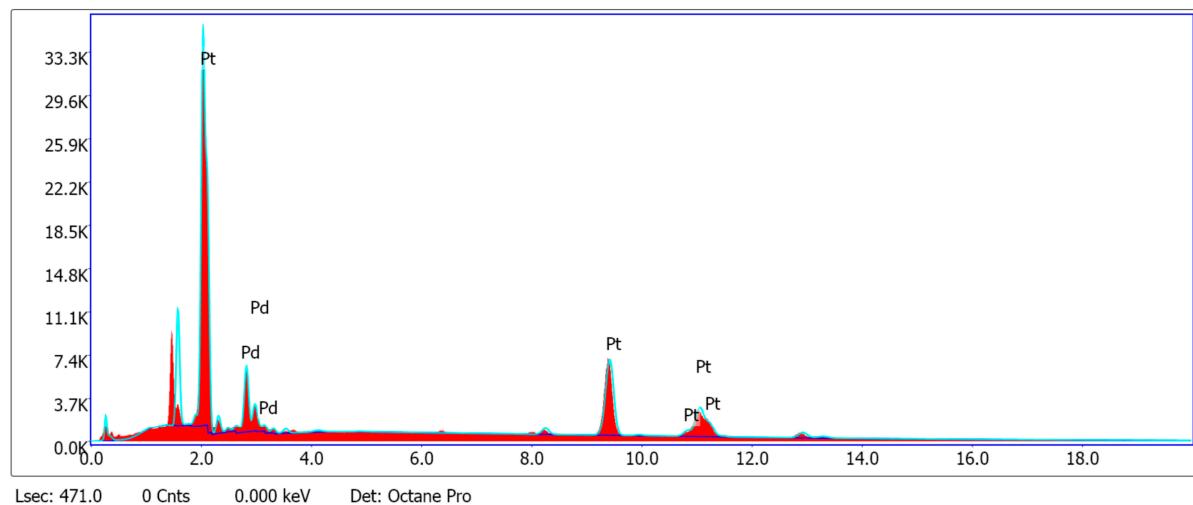


Figure S2. EDS spectrum of Pt₇₅-Pd₂₅

Pt₅₀-Pd₅₀

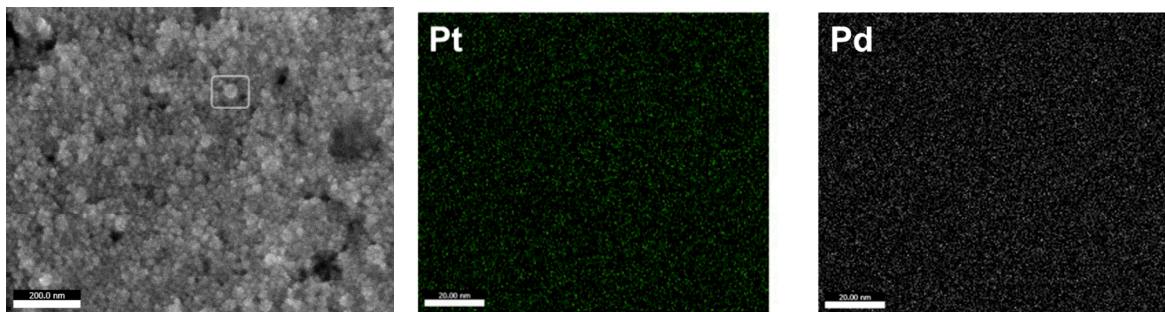


Figure S3. SEM-EDS mapping of $\text{Pt}_{50}\text{-Pd}_{50}$

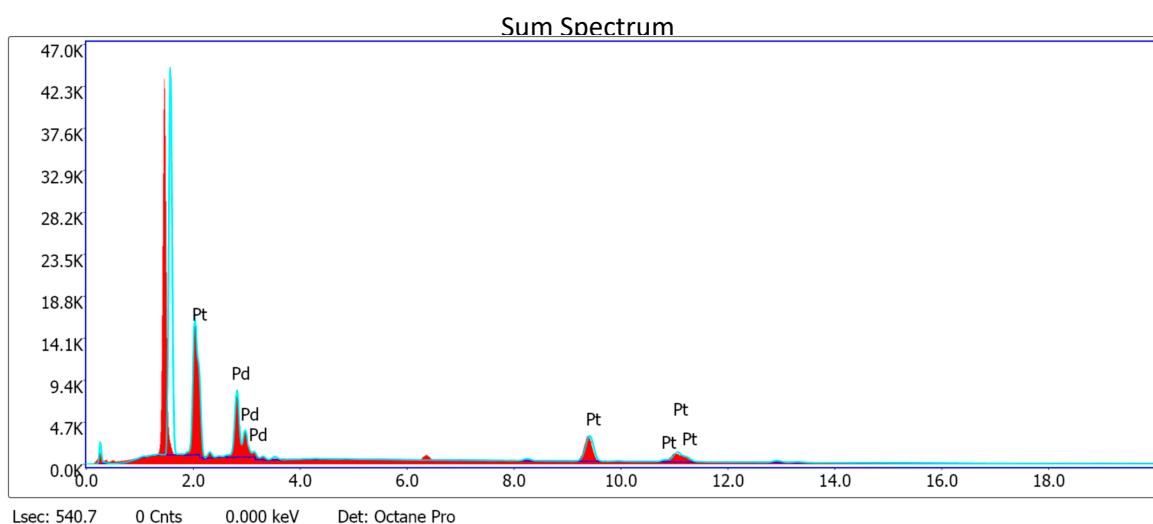


Figure S4. EDS spectrum of $\text{Pt}_{50}\text{-Pd}_{50}$

$\text{Pt}_{25}\text{-Pd}_{75}$

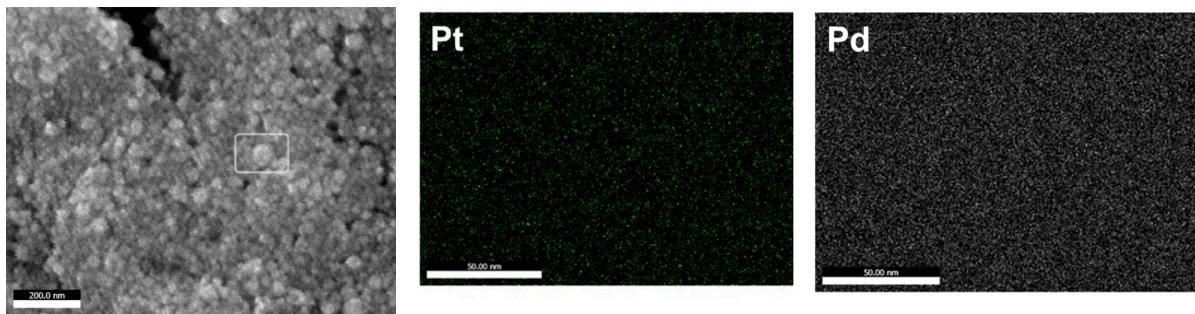


Figure S5. SEM-EDS mapping of Pt₂₅-Pd₇₅

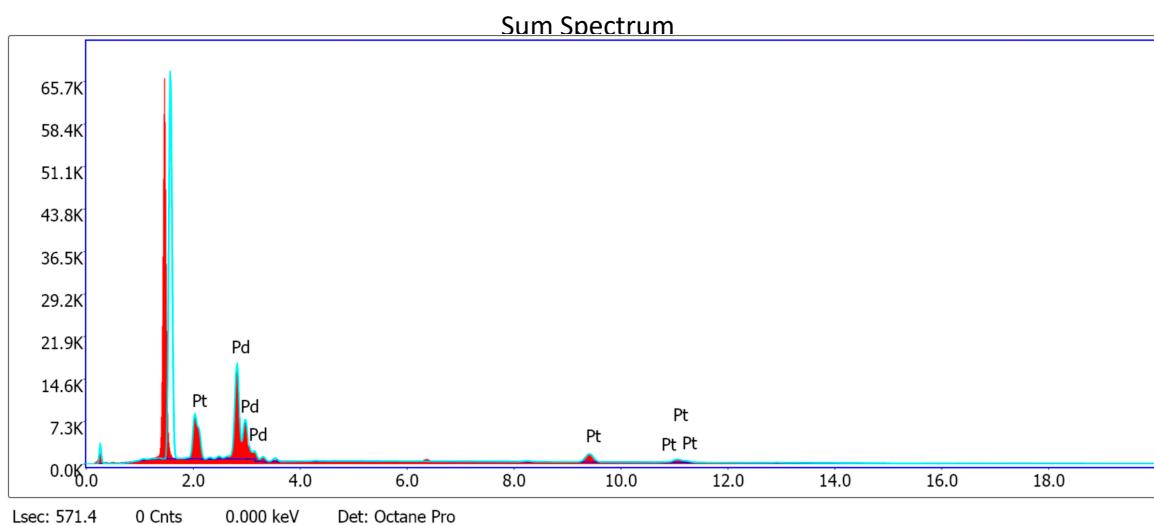


Figure S6. EDS spectrum of Pt₂₅-Pd₇₅

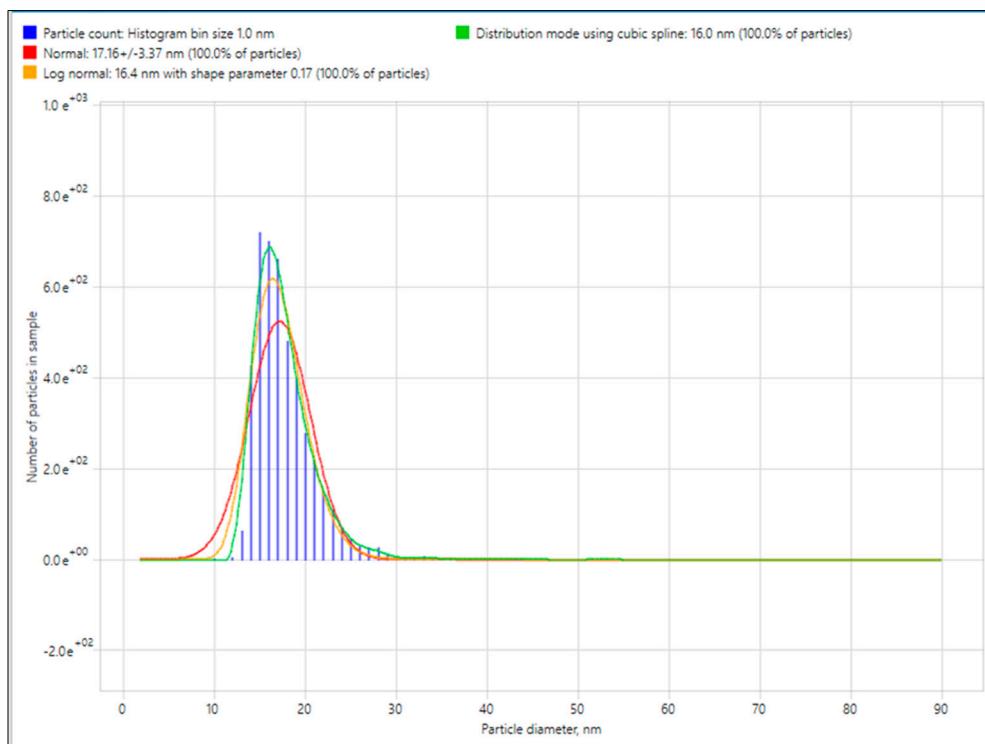


Figure S7. Particle size distribution of Pt (Pt100) NCs using different fitting models as obtained using splCP-SFMS.

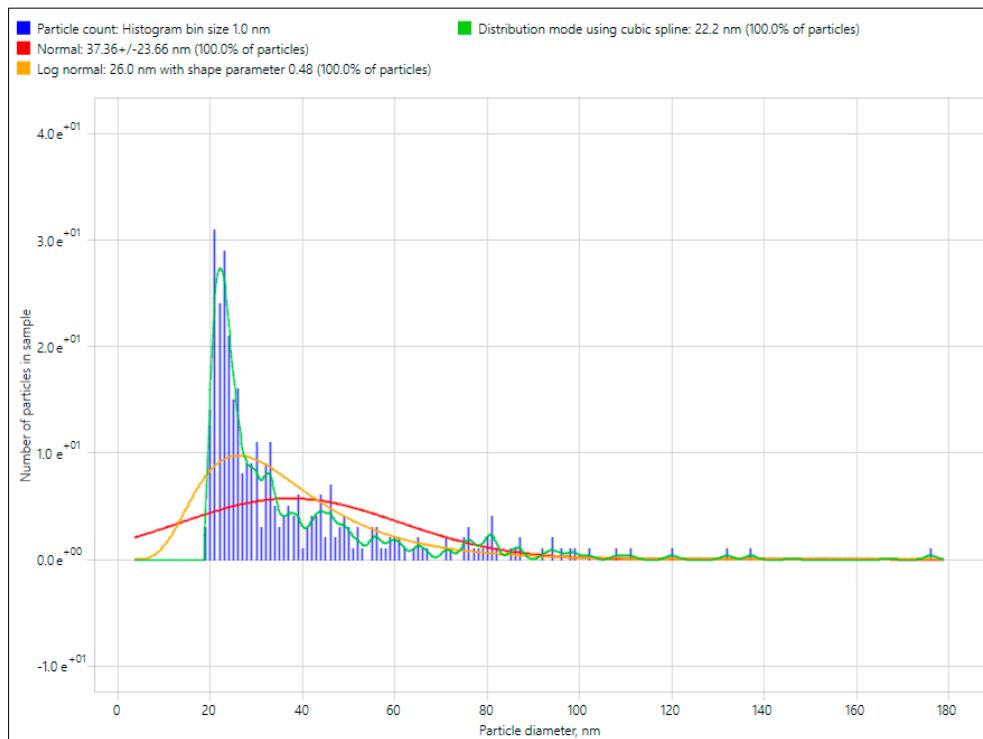


Figure S8. Particle size distribution of Pd (Pd100) NCs using different fitting models as obtained using splCP-SFMS.

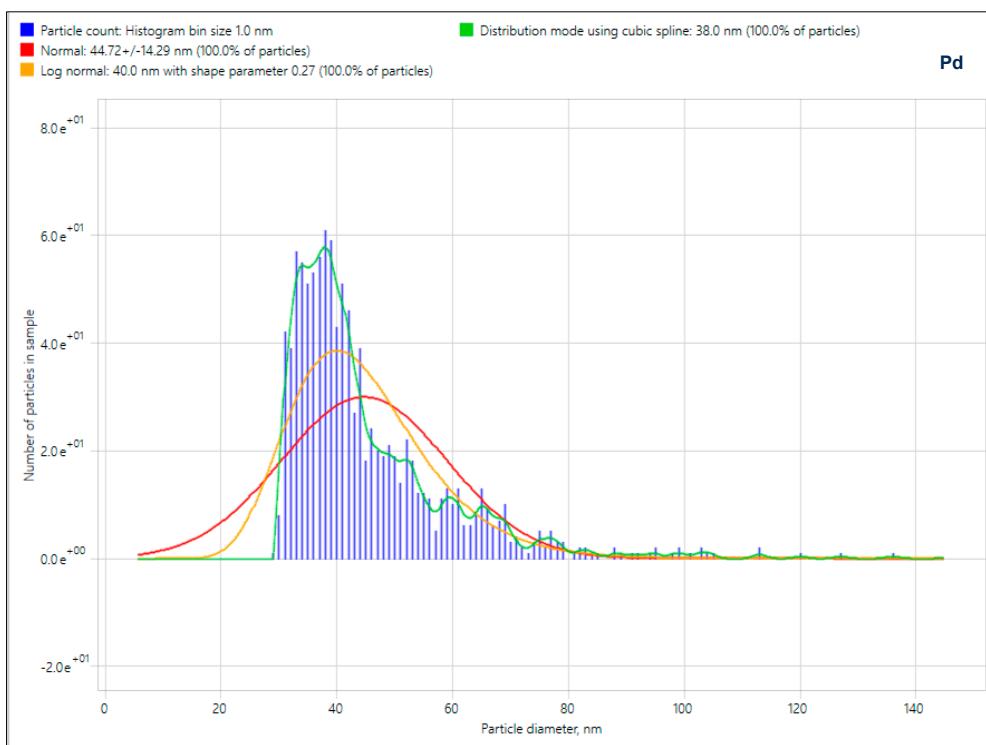
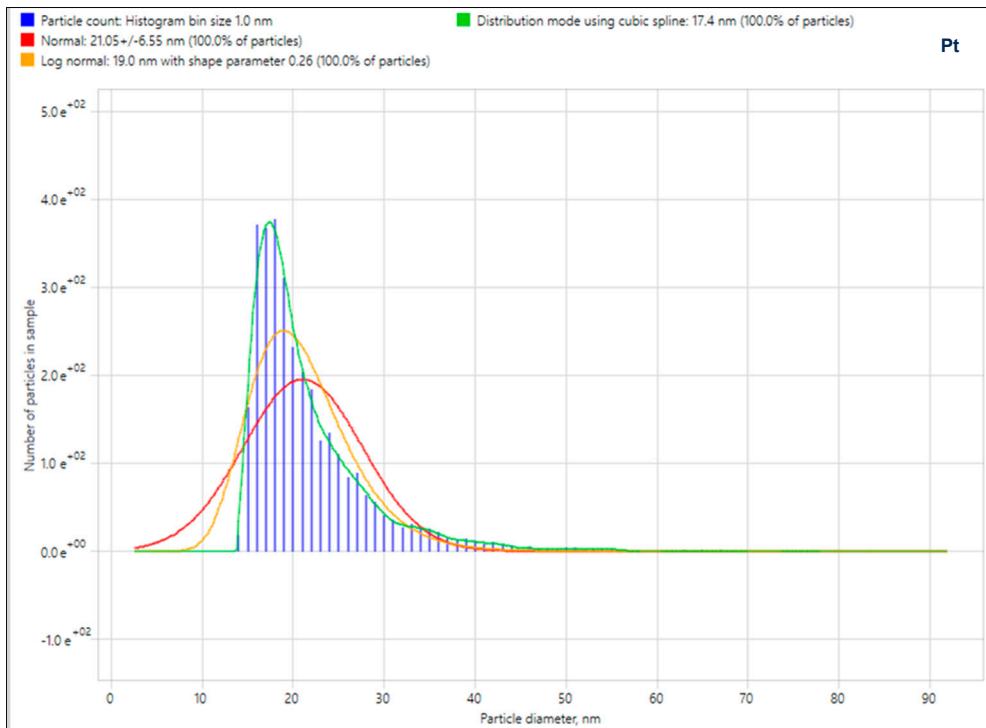


Figure S9. Particle size distribution of Pt and Pd using different fitting models as obtained using spICP-SFMS to calculate particle size distribution of Pt₇₅-Pd₂₅ alloy NCs.

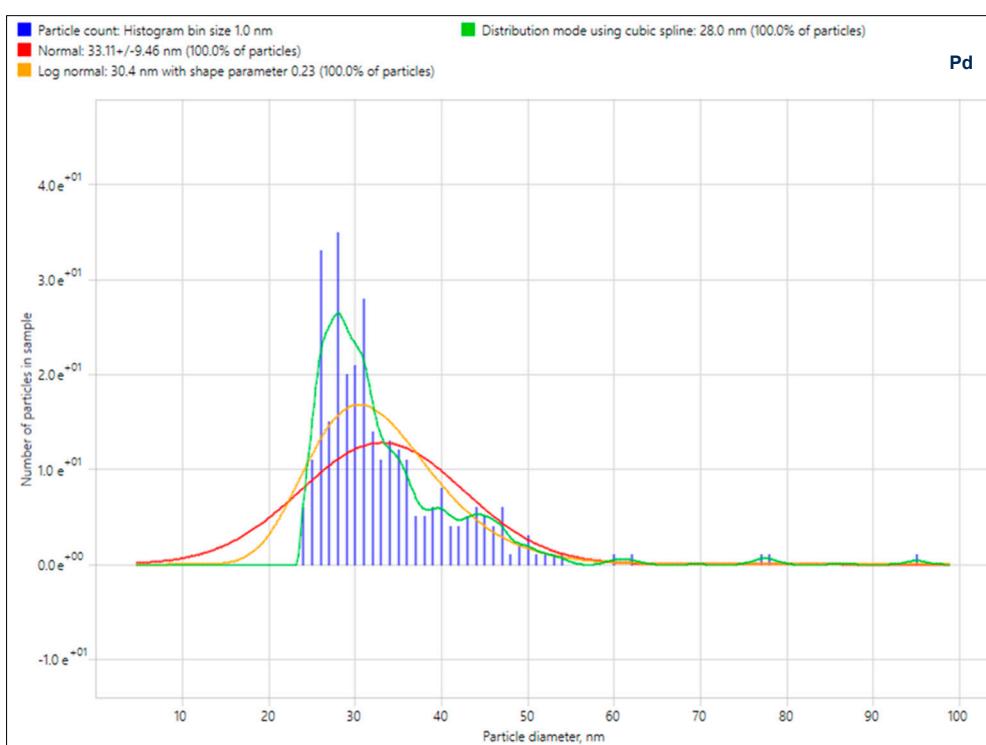
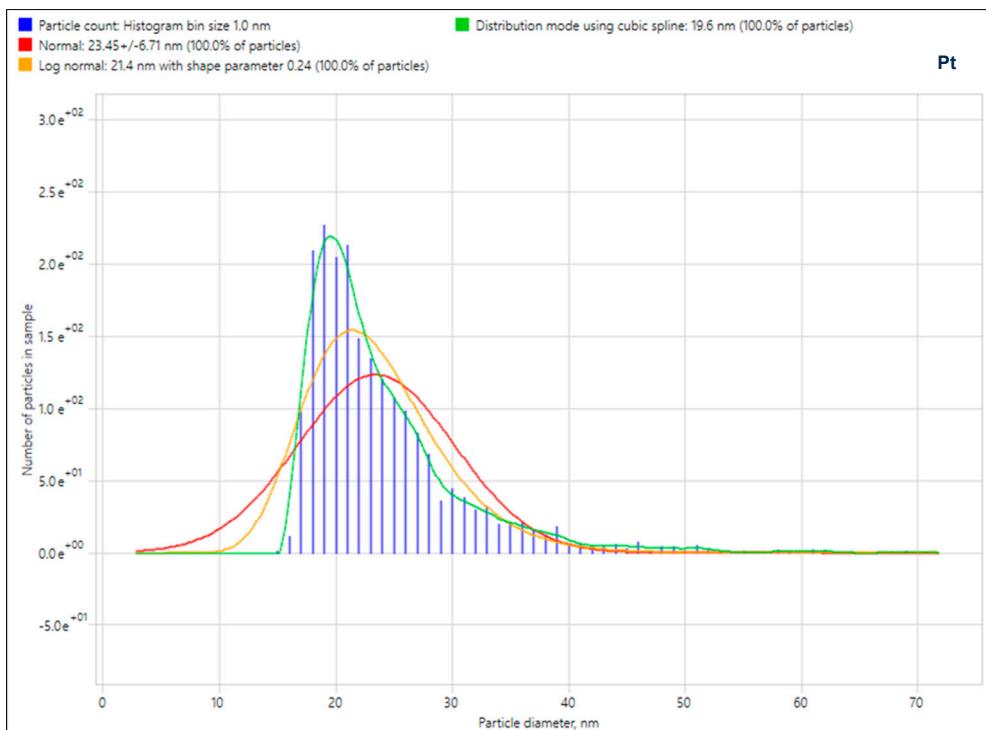


Figure S10. Particle size distribution of Pt and Pd using different fitting models as obtained using spICP-SFMS to calculate particle size distribution of Pt₅₀-Pd₅₀ alloy NCs.

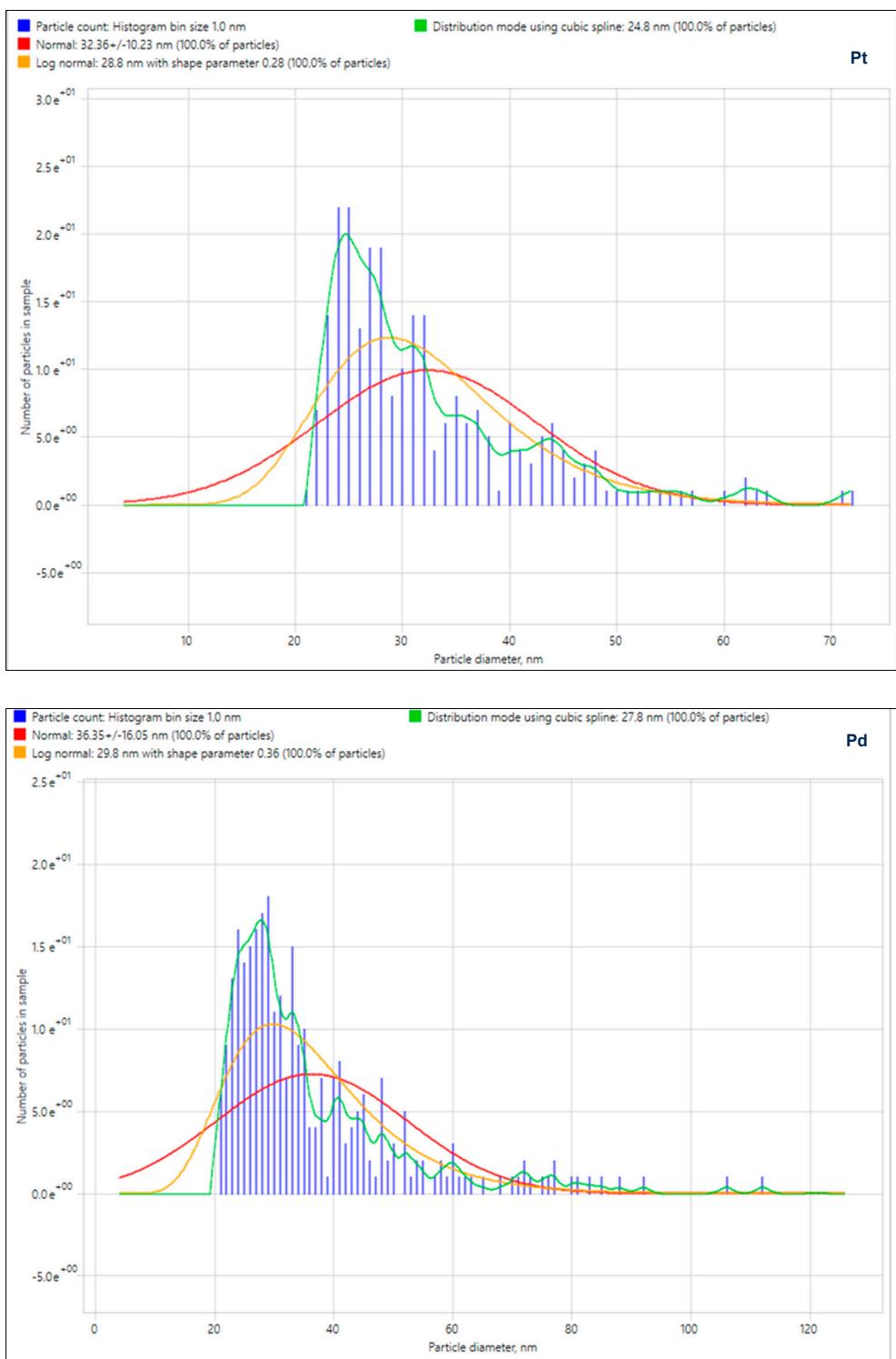


Figure S11. Particle size distribution of Pt and Pd using different fitting models as obtained using splCP-SFMS to calculate particle size distribution of Pt₇₅-Pd₂₅ alloy NCs.