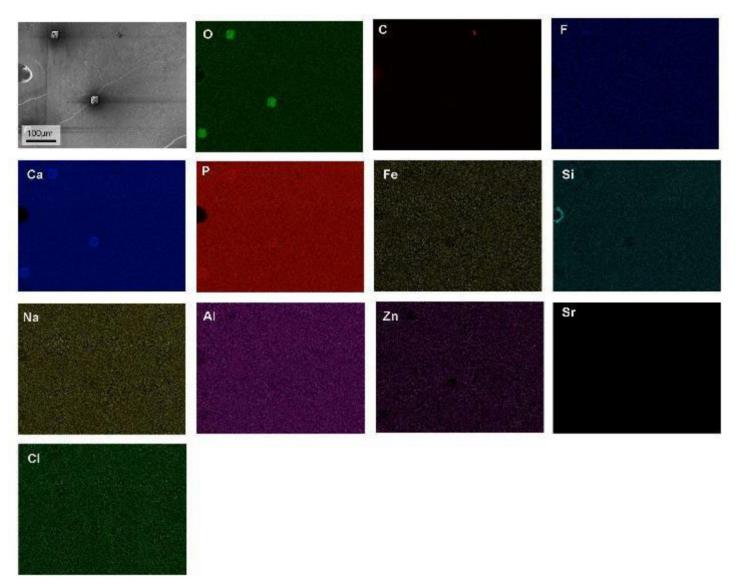
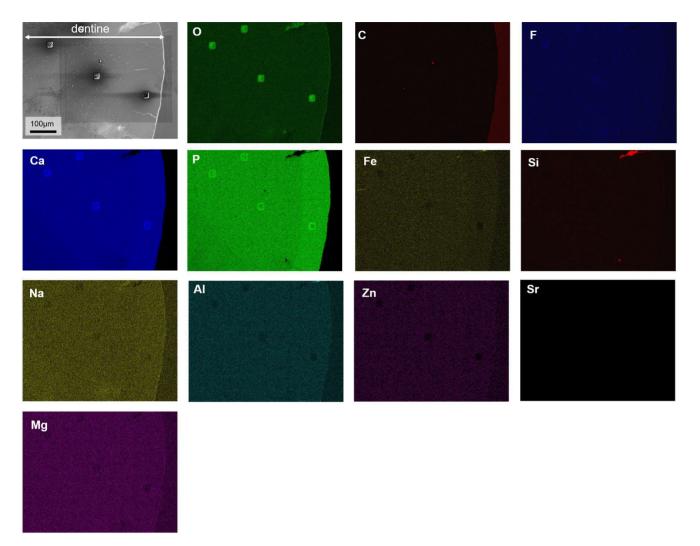


Supplementary Figure 1: EDX maps of element concentrated in the Eumeralla plesiosaur tooth (Eu-PL-1122A_X outside part)

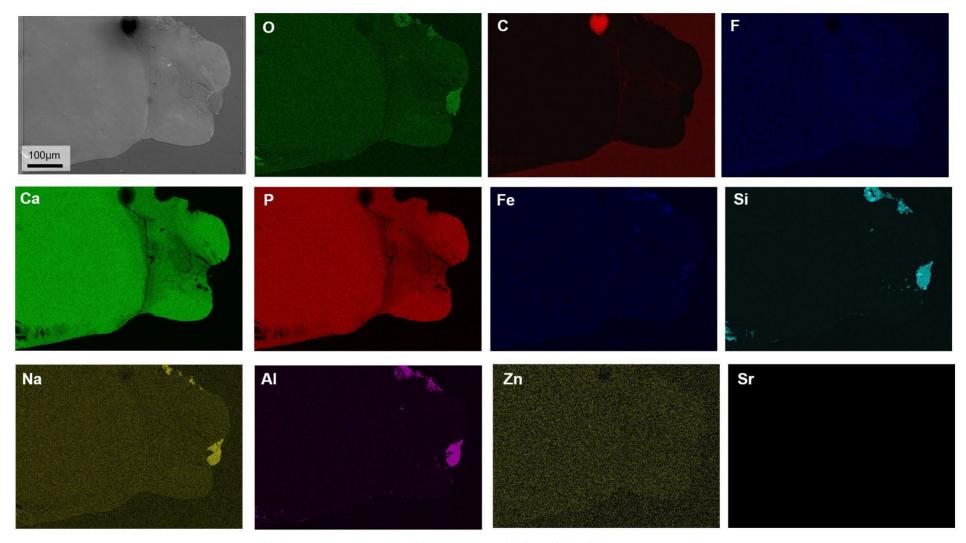


Supplementary Figure 2: EDX maps of element concentrated in the Eumeralla plesiosaur tooth (Eu-PL-1122A_Y inside part: dentine part)

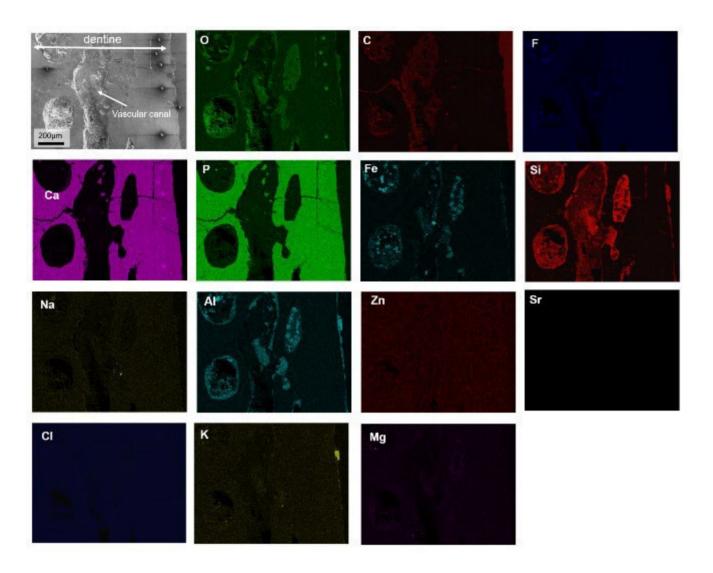


Supplementary Figure 3: EDX maps of element concentrated in the Eumeralla plesiosaur tooth (Eu-PL-1122B)

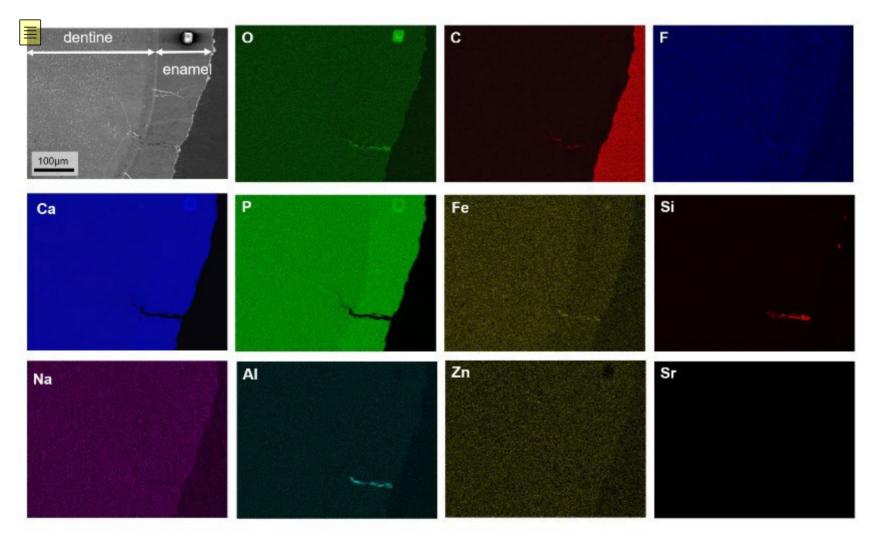
EDS Map Data Supplement



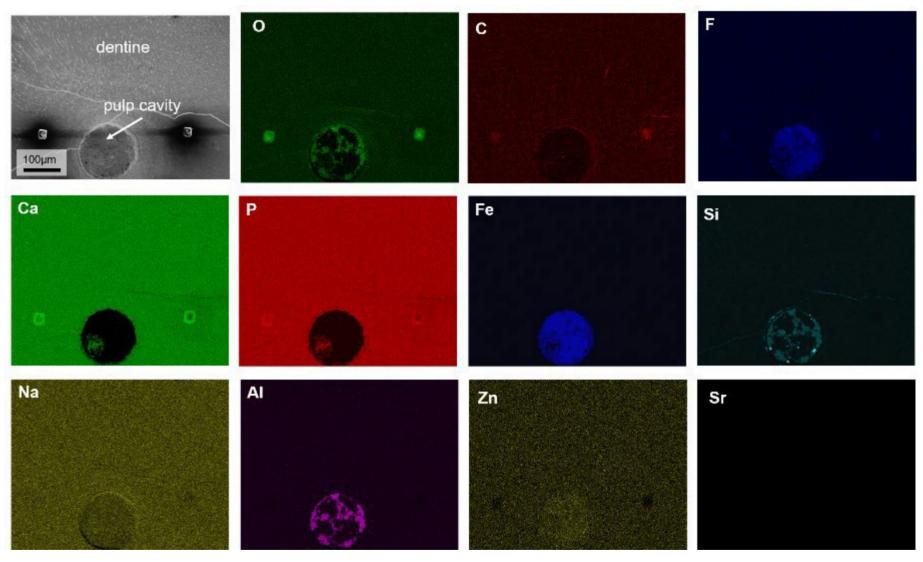
Supplementary Figure 4: EDX maps of element concentrated in the Eumeralla lungfish plate (Eu-PL-1122C)



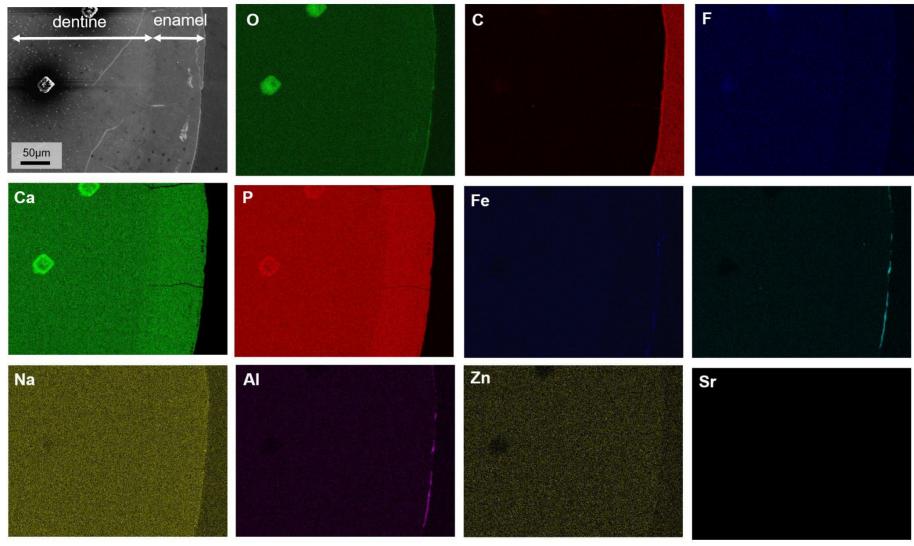
Supplementary Figure 5: EDX maps of element concentrated in the Eumeralla lungfish plate (Eu-PL-1122D)



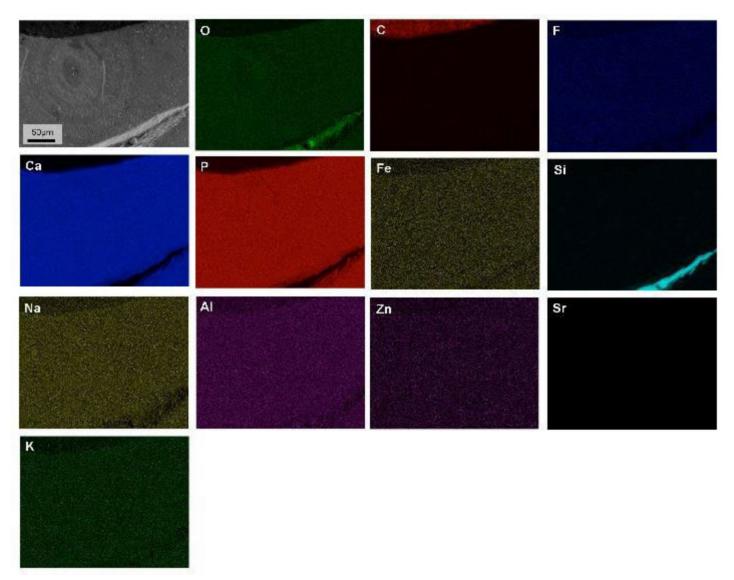
Supplementary Figure 6: EDX maps of element concentrated in the Wonthaggi plesiosaur tooth (Wtg-PL-1123A_X outside part)



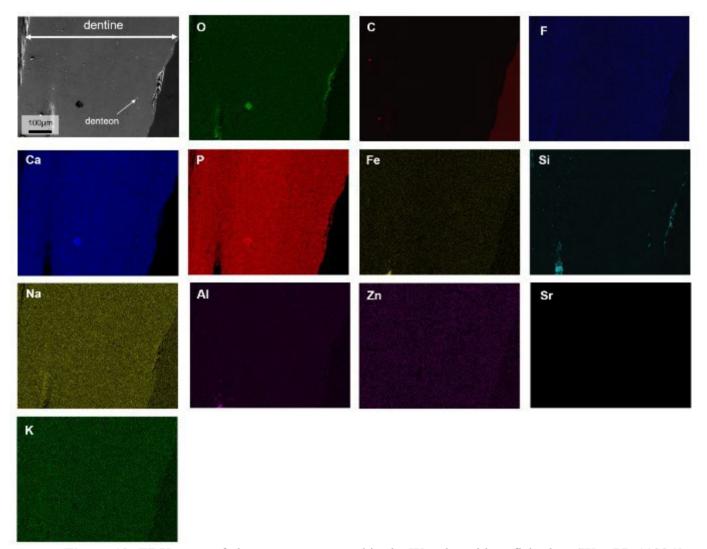
Supplementary Figure 7: EDX maps of element concentrated in the Wonthaggi plesiosaur tooth (Wtg-PL-1123A_Y inside part dentine)



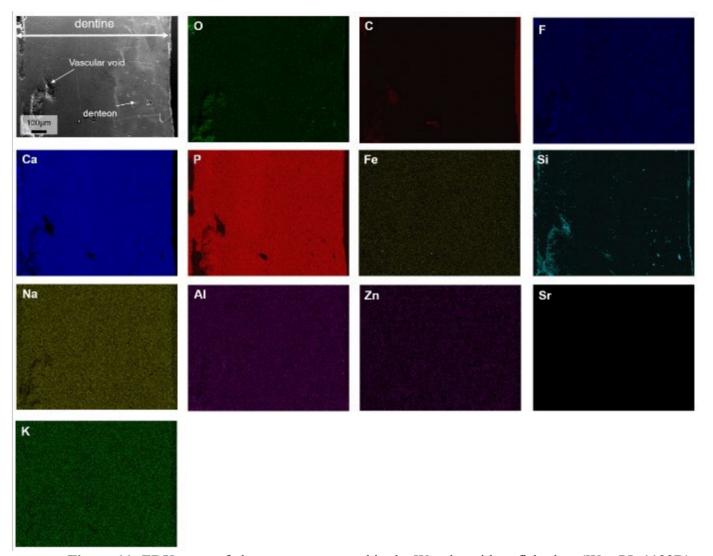
Supplementary Figure 8: EDX maps of element concentrated in the Wonthaggi plesiosaur tooth (Wtg-PL-1123B_X outside part)



Supplementary Figure 9: EDX maps of element concentrated in the Wonthaggi plesiosaur tooth (Wtg-PL-1123B_X inside part)



Supplementary Figure 10: EDX maps of element concentrated in the Wonthaggi lungfish plate (Wtg-PL-1123C)



Supplementary Figure 11: EDX maps of element concentrated in the Wonthaggi lungfish plate (Wtg-PL-1123D)