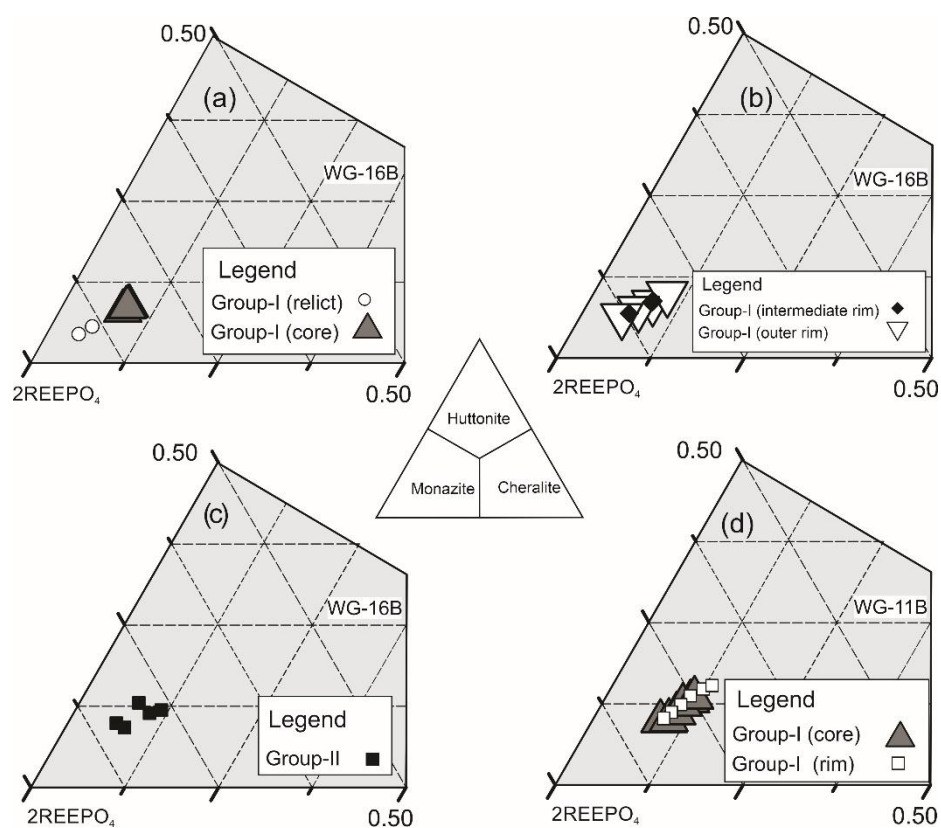
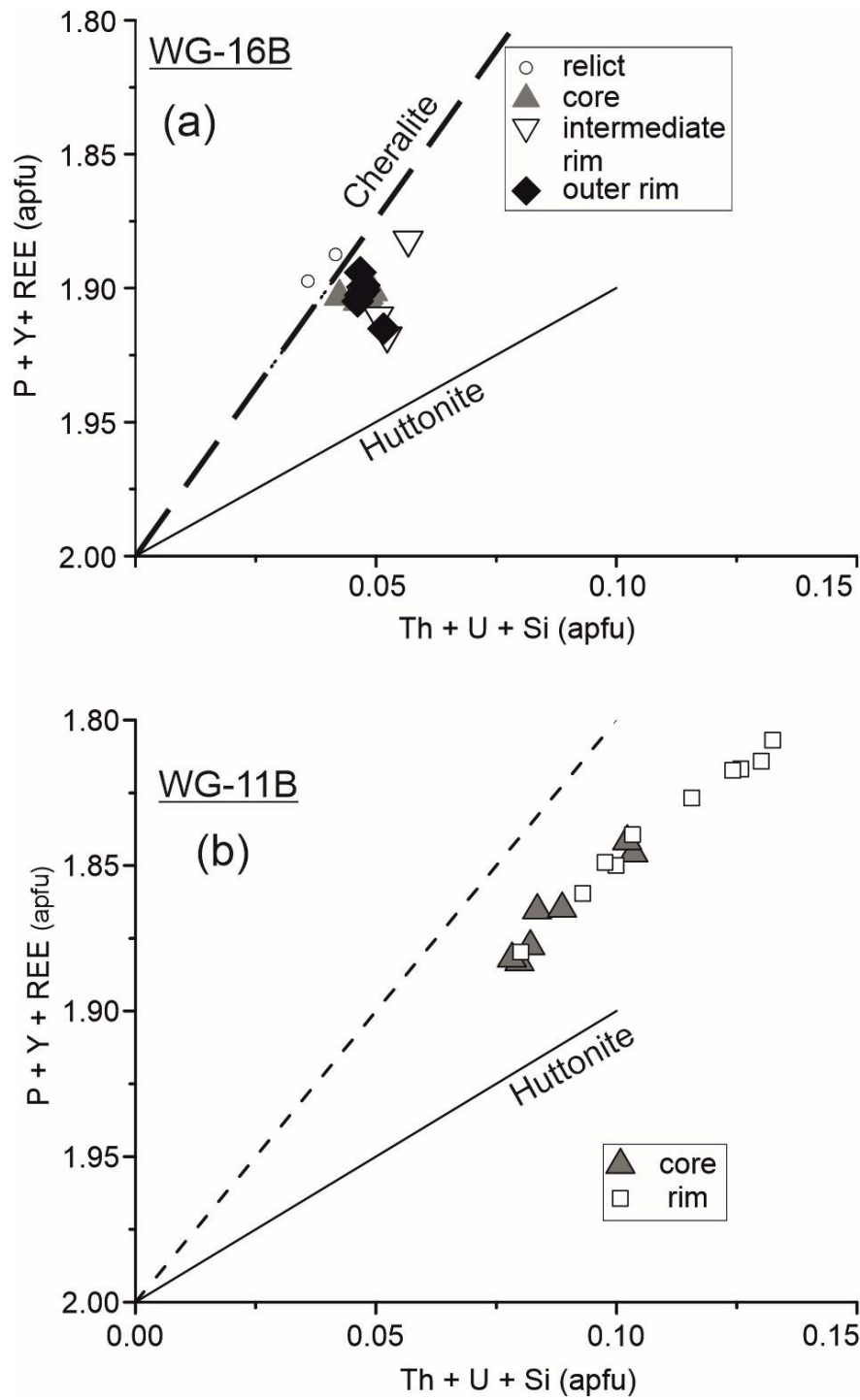


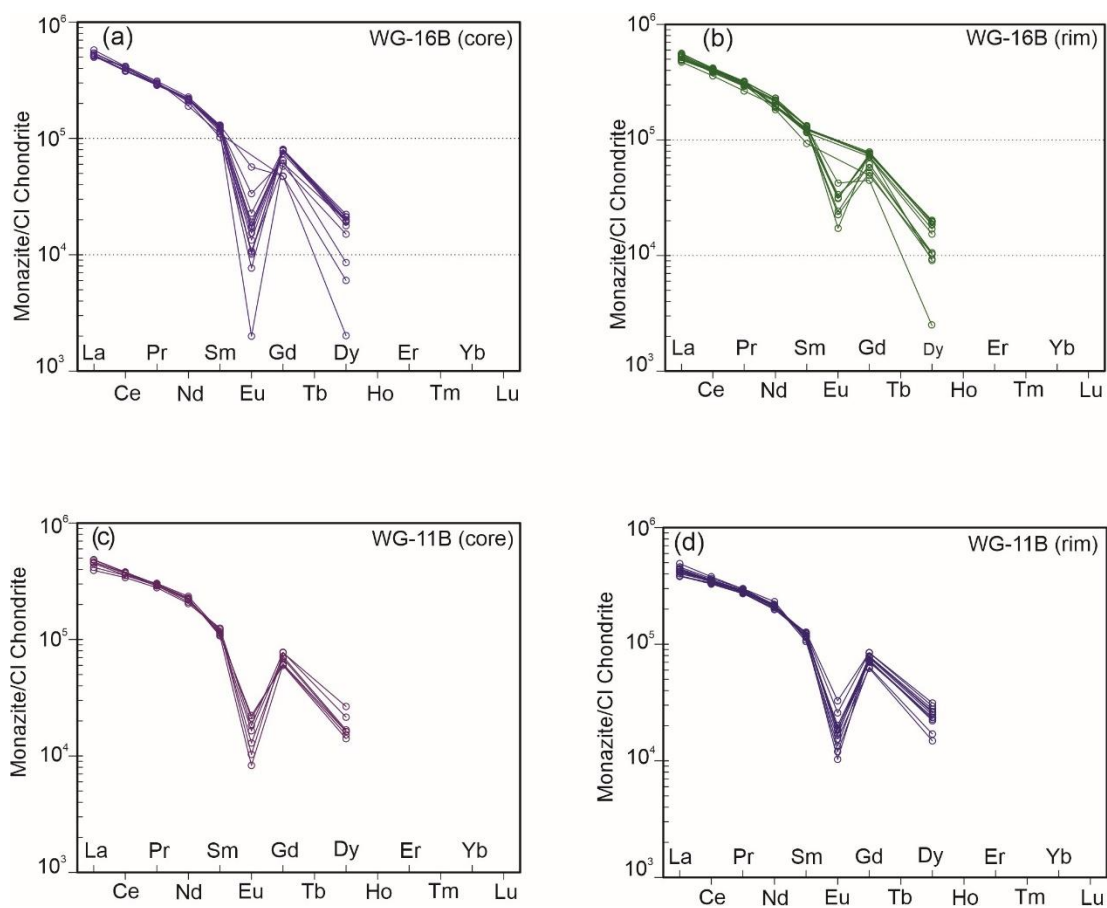
## Supplementary Figures



**Supplementary figure 1 a-d** Plot after (Linthout 2007) showing compositional variation among Monazite grains from the studied samples WG 16B and WG 11B.



**Supplementary figure 2 a, b** P + Y + REE (apfu) versus Th + U + Si (apfu) plot for both the WG-16B and WG-11B samples.



**Supplementary figure 3 a-d** CI chondrite normalized spider plot for monazite grains from the studied samples.