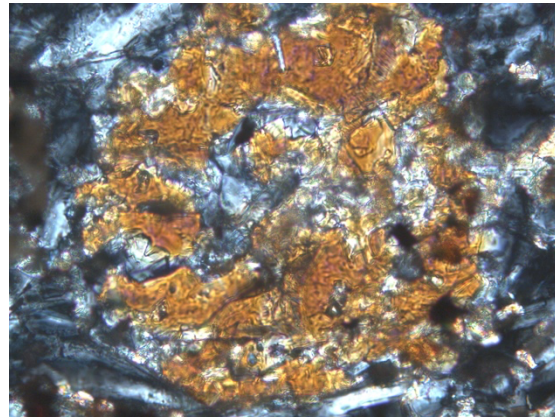
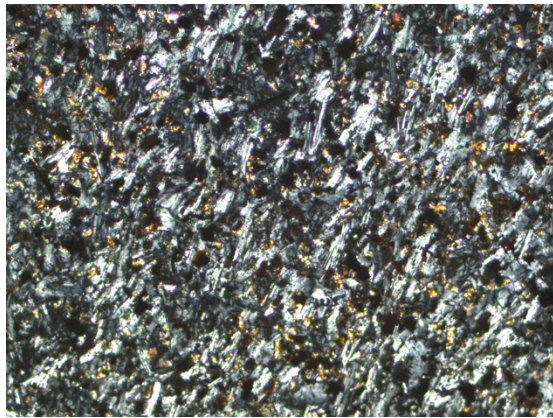
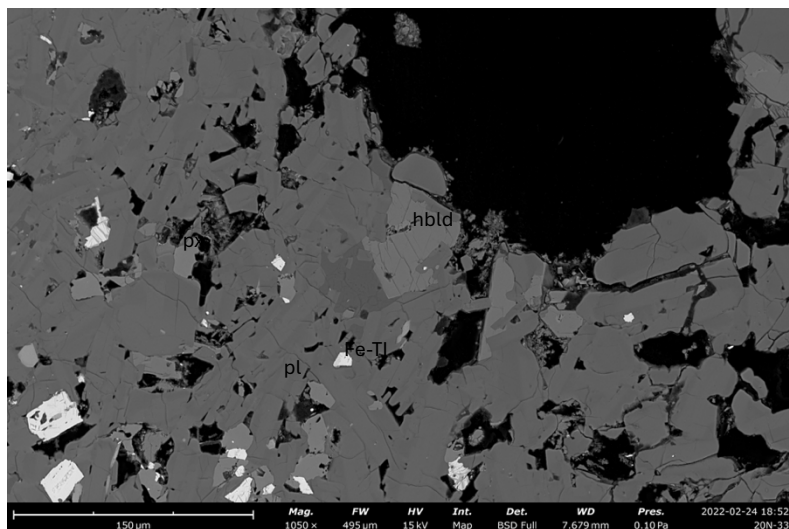


20N-33

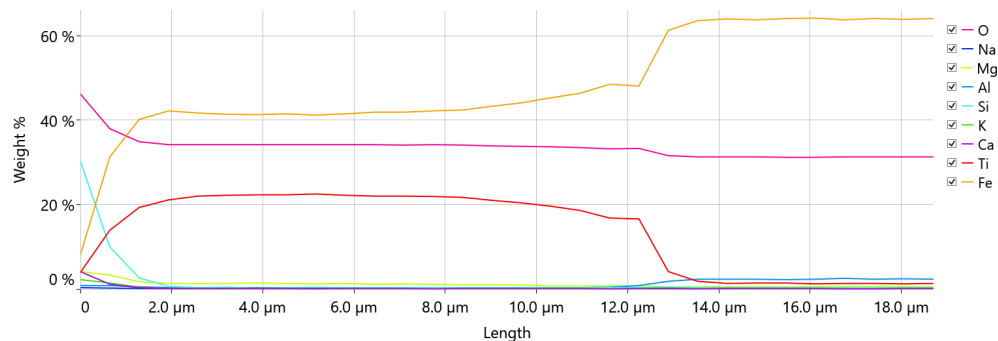
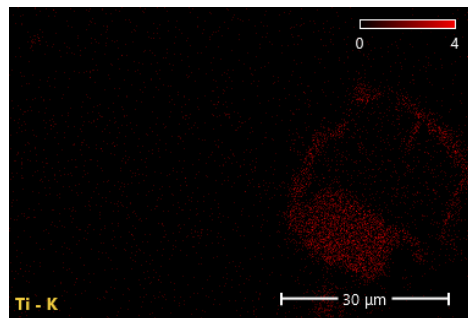
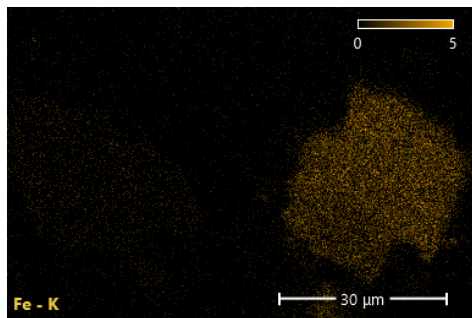
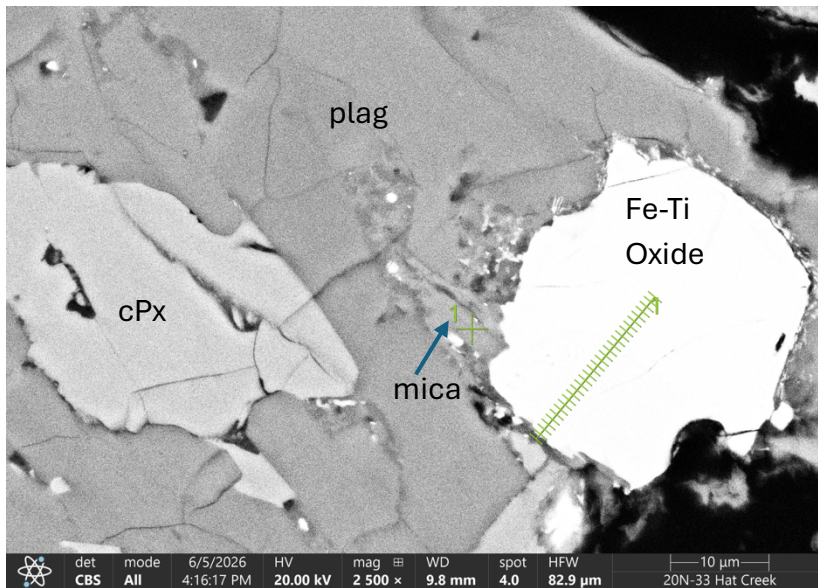
20N-33 is from a poorly exposed outcrop in the Hat Creek area collected on August 25, 2022. The sample is a trachyandesite (TAS) holocrystalline sparsely vesicular flow with a trachytic texture defined by the alignment of plagioclase microlites. The rock contains 85% plagioclase microlites (oligoclase) with interstitial augite (5%), iron-titanium oxide (3%), rare microcrysts of sanidine and xenocrysts of enstatite, and groundmass (2%). Vesicles are about 10%, and round to irregular in shape. Feldspars are compositionally zoned from Na-Ca plagioclase to K-dominated alkali feldspar. Oxides are zoned with Fe-rich cores, and Ti-rich rims.



20N-33 photomicrographs (A) trachytic texture defined by alignment of feldspar microlites 10X, XP, WOF = 1.1 mm, and (B) basal section of embayed enstatite xenocryst (40X, XP, WOF=0.26 mm).



20N-33 SEM image showing tight network of plagioclase, with interstitial clinopyroxene and one amphibole. Bright spots are Fe-Ti oxides.



Total Number of Counts: 14 901 570
 Average Count Rate: 8 287 cps
 Acceleration Voltage: 20 kV
 Total Acquisition Time: 1800 seconds

Backscatter image showing detail of 20N-33, showing a micaceous crystal and reaction at the margin of the Fe-Ti oxide. The middle image is a EDS count map showing Fe-Ti zoning of the oxide with an abrupt boundary indicated by the line scan from rim to core.