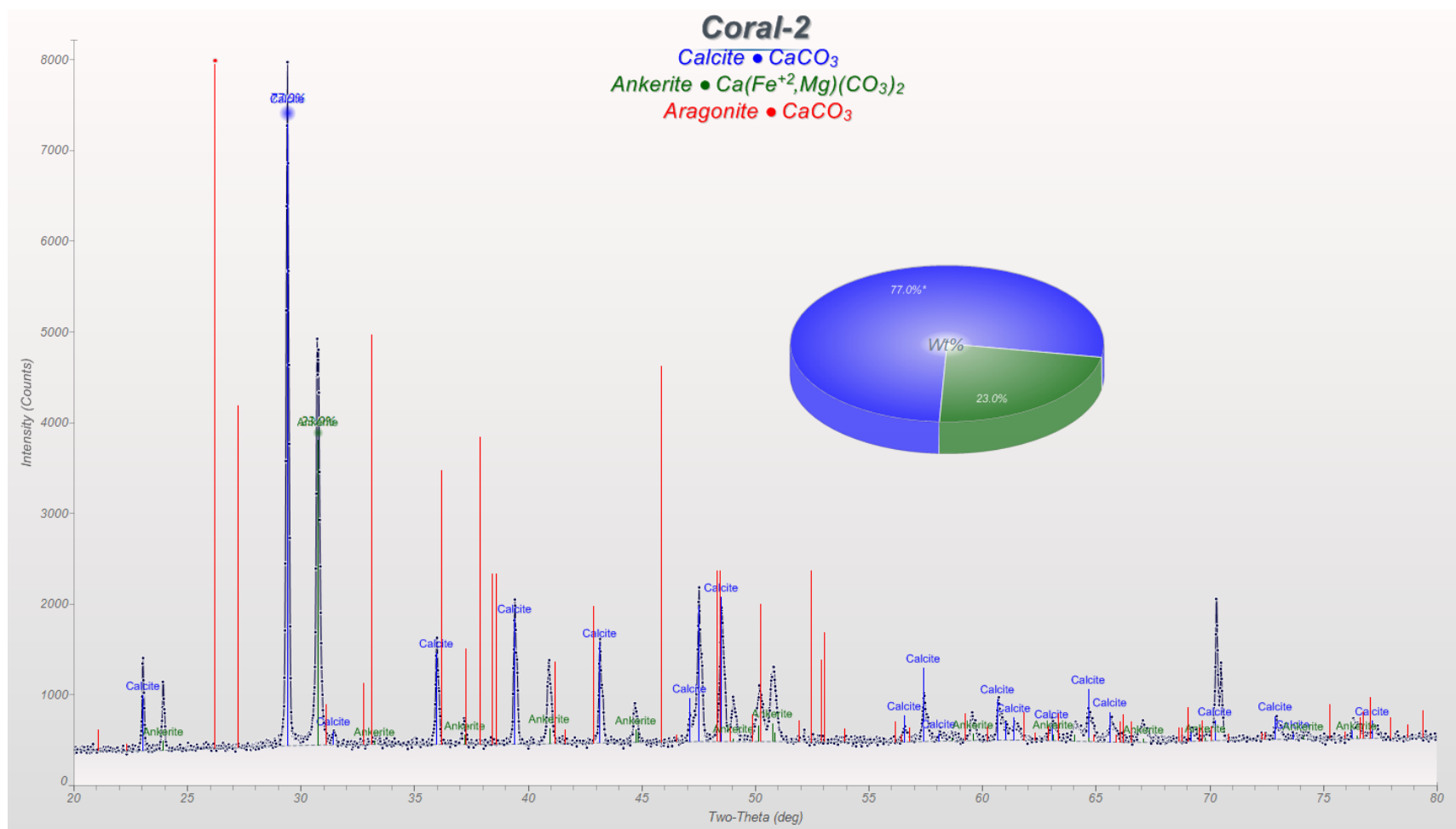


## Powder x-ray diffraction with Bruker D8 Advance ECO powder diffractometer: Compositional analysis of coral



Powder x-ray diffraction pattern from powdered coral sample (dots) analyzed with Jade and compared with ICDD crystallography database. The primary mineral components of most corals are either of two structures of  $\text{CaCO}_3$ . Analysis showed a 77% weight percentage of Calcite (blue) and 23% Ankerite (green). Peak locations for Aragonite (red) are plotted for comparison.