Whole-pattern decomposition was performed by WPEM on iron oxidation materials exposed for 7 and 15 days. Due to the low quality of the XRD data, the volume fraction of each phase was approximately estimated based on the integral areas under the decomposed patterns.

After 7 days of exposure, the composition was observed as Fe2O3 : Fe3O4 : FHO2 = 50.63%, 10.84%, 38.53%. At the 15-day mark, the composition was determined to be Fe2O3 : Fe3O4 : FHO2 = 52.37%, 11.17%, 36.46%.