

Table 2. Electron microprobe analyses showing the average chemical composition of each sample as oxide weight ratios, chemical formula units (apfu) calculated on the basis of 2.0 cations, and molar endmember ratios; the relative measurement error for WO₃ is 0.15 wt%; that of FeO, MnO and MgO 0.3 wt%, 0.2 wt% and 0.02 wt%, respectively. Nb₂O₅ and Ta₂O₅ show a standard error of 0.1 and 0.07 wt%, respectively. Other measured oxides (SiO₂, TiO₂, ZnO, CaO, MoO₃, NiO, PbO) were constantly present in amounts well below the detection limit of the instrument and are not shown.

Oxide (wt%)	Sample ID ^a										
	#1318(5)	#5735(10)	#5725(10)	#5737(9)	#5721(5)	#1345(3)	#797(5)	#5730(9)	CET(3)	OLH(3)	#12767(3)
FeO	8.90	9.00	9.20	20.50	0.70	bdl	17.70	8.70	18.40	18.80	22.10
MnO	14.80	14.50	14.20	2.80	22.50	23.40	5.80	14.80	4.50	4.50	1.80
MgO	bdl	0.01	bdl	0.34	bdl	bdl	0.01	bdl	0.60	0.34	0.06
Nb ₂ O ₅	0.85	0.16	1.19	0.07	0.11	bdl	0.91	1.45	0.37	bdl	0.32
Ta ₂ O ₅	0.01	0.04	0.14	bdl	bdl	bdl	0.15	0.21	bdl	bdl	bdl
WO ₃	76.00	75.90	74.90	76.30	74.90	76.00	74.00	74.40	76.30	76.60	75.90
Formula (apfu)											
Fe	0.370	0.380	0.390	0.860	0.030	0.000	0.750	0.360	0.770	0.790	0.920
Mn	0.630	0.620	0.610	0.120	0.970	1.000	0.250	0.630	0.190	0.190	0.080
Mg	0.000	0.001	0.000	0.025	0.000	0.000	0.001	0.000	0.045	0.025	0.005
Nb	0.019	0.004	0.027	0.002	0.002	0.000	0.021	0.033	0.008	0.000	0.007
Ta	0.000	0.001	0.002	0.000	0.000	0.000	0.002	0.003	0.000	0.000	0.000
W	0.980	0.990	0.980	0.990	0.990	0.990	0.970	0.970	0.990	1.000	0.990
O	4.000	4.000	4.000	3.990	3.980	3.980	3.970	3.990	3.990	3.990	3.980
Endmembers (mol%)											
Ferberite	37.17	37.84	38.96	85.64	3.10	0.00	74.93	36.58	76.51	78.46	91.83
Hübnerite	62.83	62.05	61.04	11.86	96.90	100.00	25.00	63.42	19.05	19.04	7.71
Huanzalaite	0.00	0.11	0.00	2.50	0.00	0.00	0.07	0.00	4.44	2.50	0.46

^a The number in parantheses indicates the count of analytical points in the given sample.