**Table S3.** Parameters of chemical analyses.

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| **Oxide** | **Accuracy limit, wt%** | | **EPMA standards** |
| **wet**  **chemistry** | **EPMA** |
| Fe2O3 | 0.01 |  |  |
| FeO | 0.1 | 0.01 | magnetite |
| Al2O3 | 0.01 | 0.05 | pyrope |
| SiO2 | 0.01 | 0.05 | diopside |
| Cr2O3 | 0.01 | 0.02 | chromite |
| MgO | 0.01 | 0.1 | pyrope |
| CaO | 0.01 | 0.03 | diopside |
| Na2O | 0.01 | 0.1 | lorenzenite |
| K2O | 0.01 | 0.1 | wadeite |
| TiO2 | 0.01 | 0.02 | anatase |
| V2O3 | 0.01 | 0.02 | V |
| MnO | 0.01 | 0.01 | MnCO3 |
| ZnO | 0.01 | 0.01 | ZnO |
| NiO | 0.01 | 0.01 | Ni |
| P2O5 | 0.01 | 0.05 | fluorapatite |
| S | 0.01 | 0.05 | Fe10S11 |
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