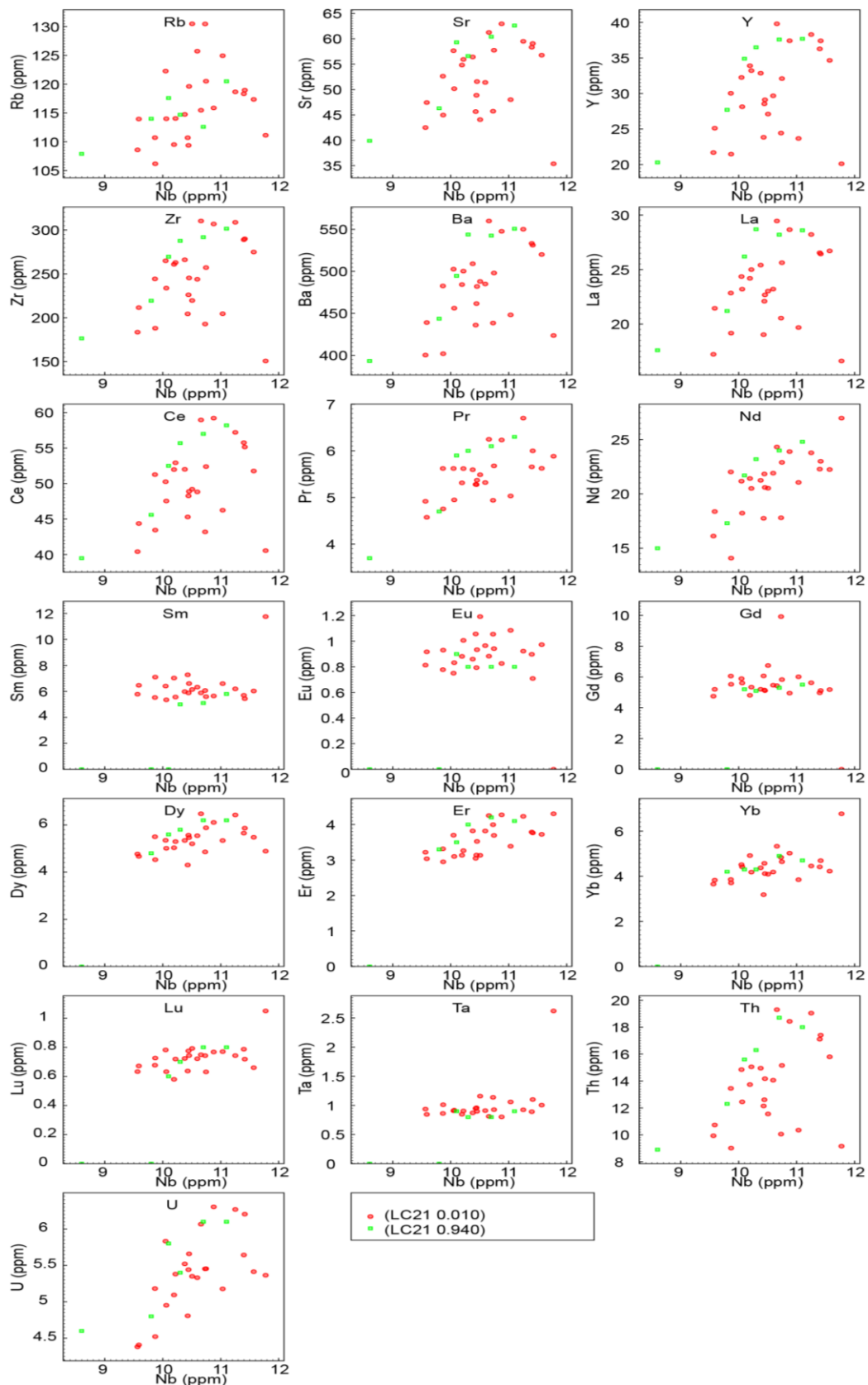
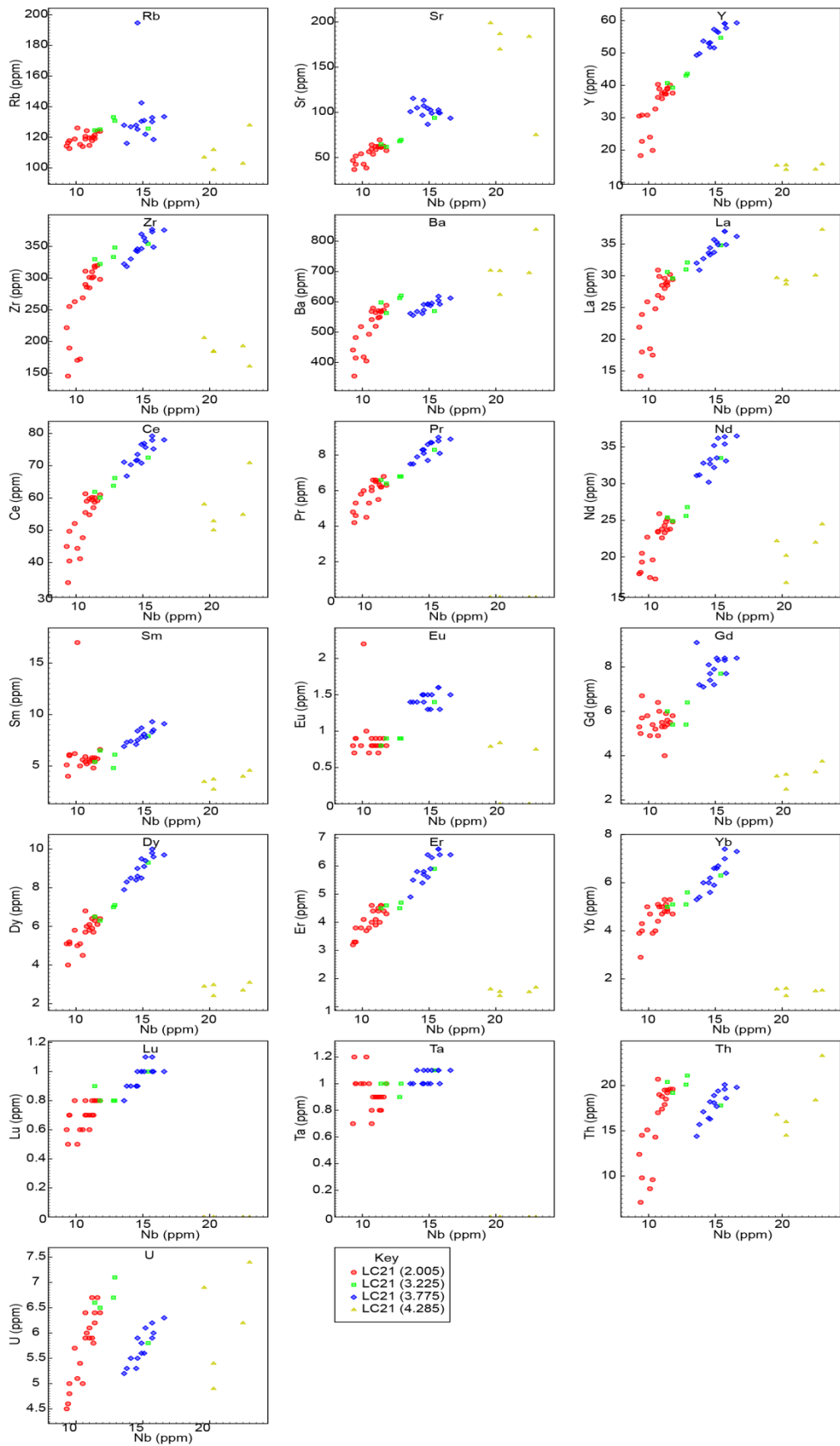


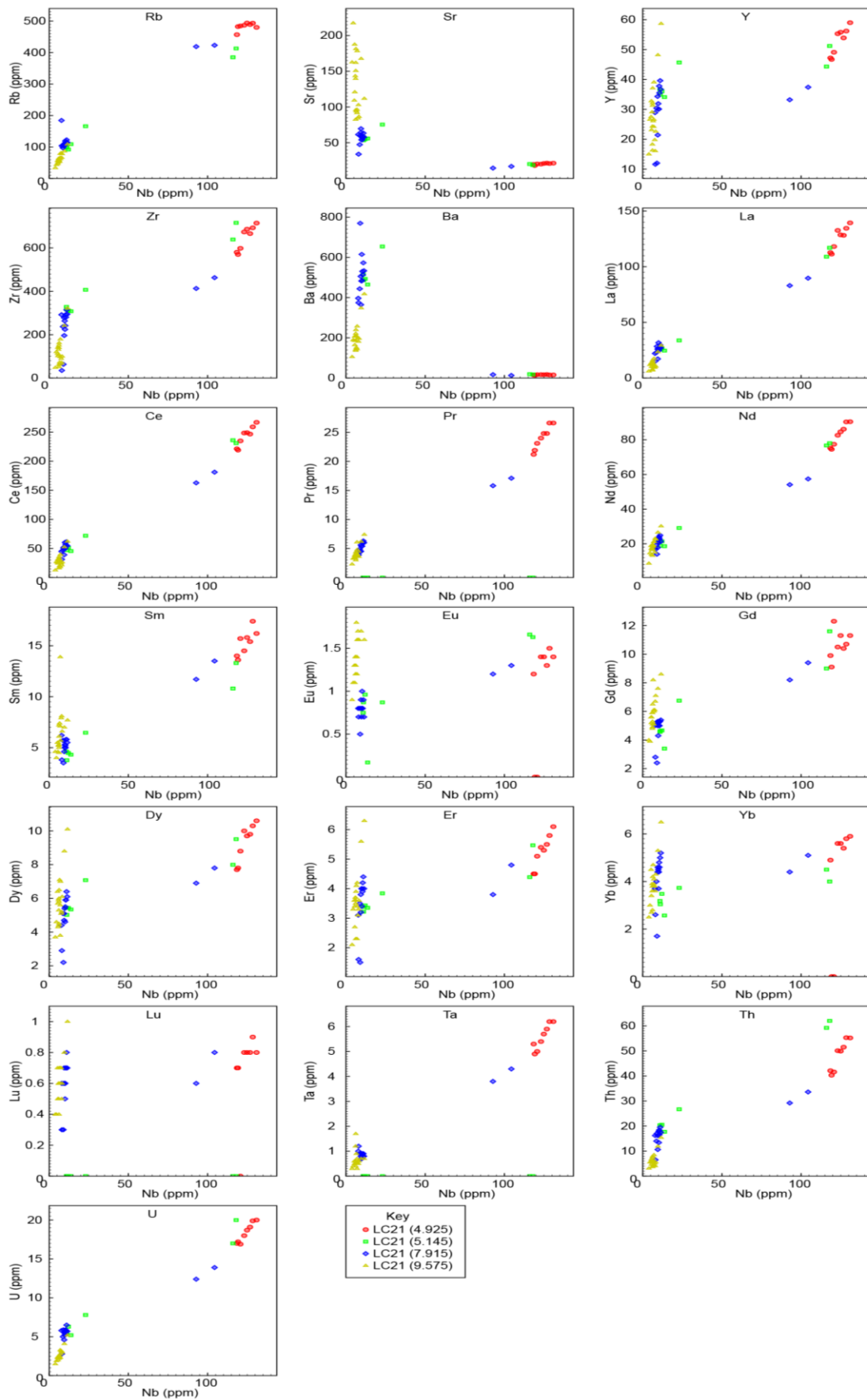
Supplementary Figure 2- Trace Element Analyses of all tephra shards analysed from core LC21.



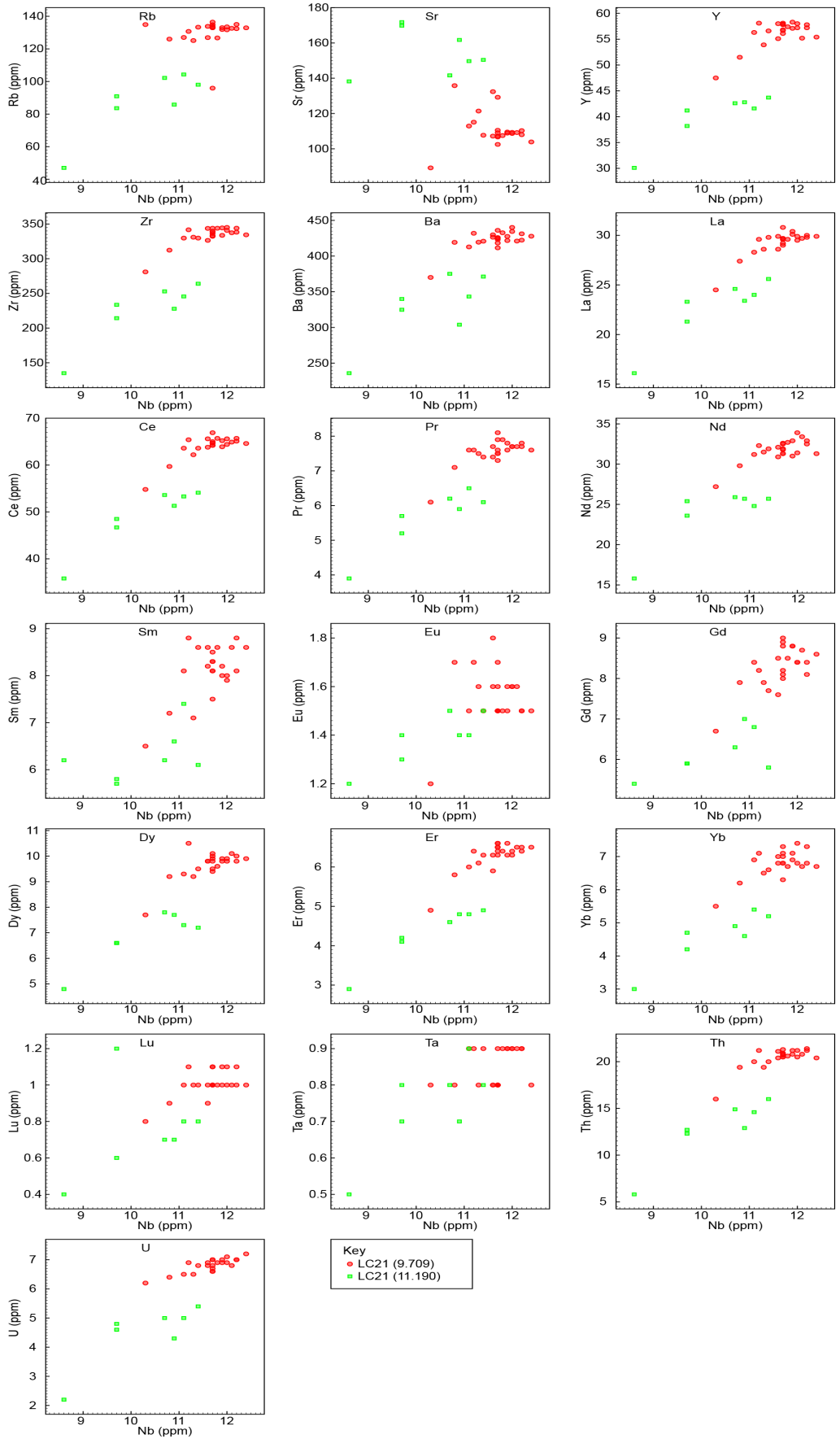
**Supplementary Figure 2a** Trace element analyses of LC21 (0.940) and LC21 (0.010) to test for geochemical differences between the two samples, and thus to identify reworking of the visible tephra LC21 (0.940).



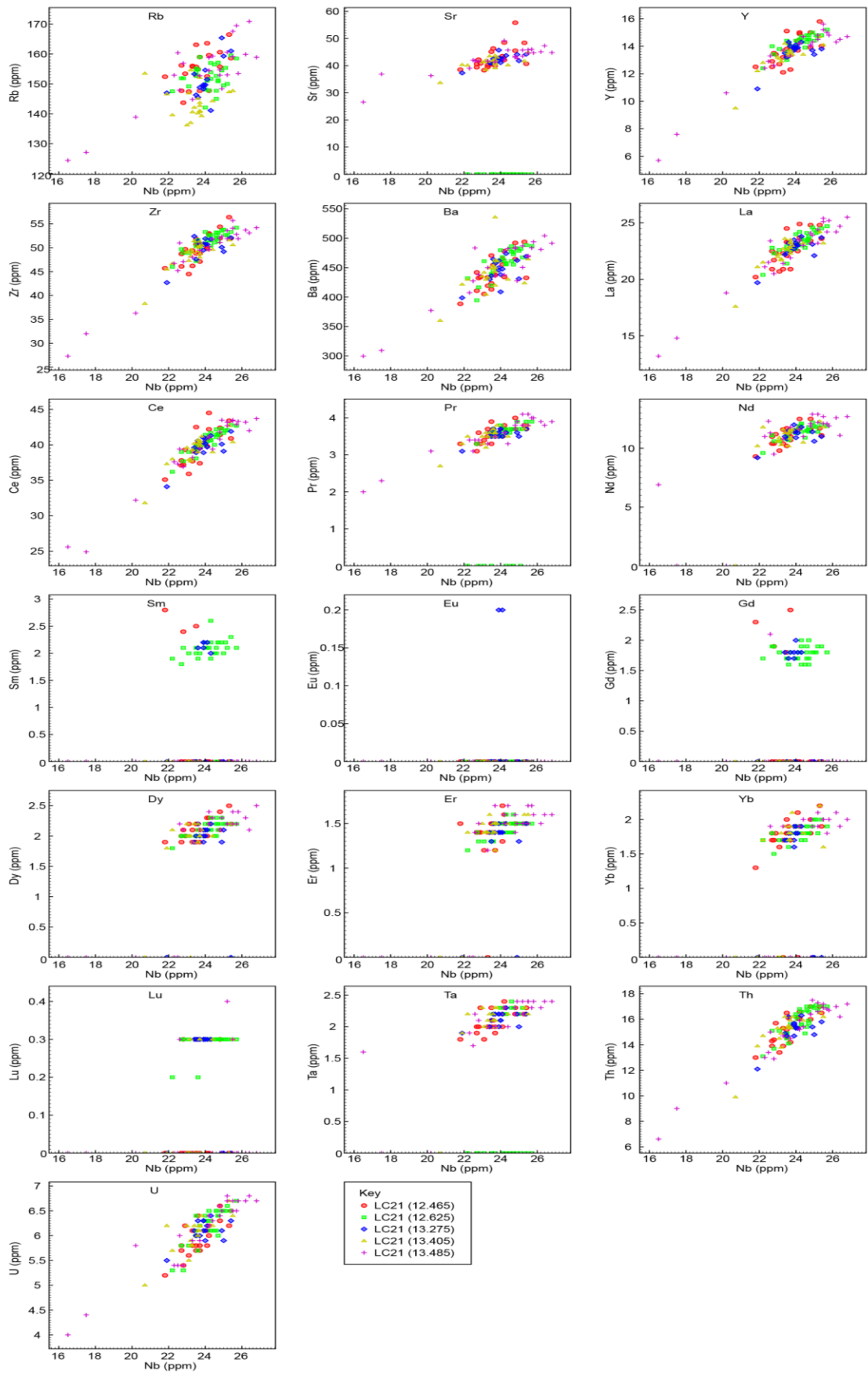
**Supplementary Figure 2b** Trace element analyses of shards from tephra layers LC21 (2.005), LC21 (3.225), LC21 (3.775), and LC21 (4.285).



**Supplementary Figure 2c** Trace element analyses of shards from samples LC21 (4.925), (5.125), (7.915), (9.575).



**Supplementary Figure 2d** Trace element analyses of tephra shards from LC21 (9.709) and LC21 (11.190).



**Supplementary Figure 2e** Trace element analysis of tephra shards from samples LC21 (12.465), (12.625), 13.275), (13.405), (13.485).