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Compositions of splashform- and Muong Nong-type Australasian tektites from a single locality in the southern Laos compared.

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Localities where Muong Nong- (MN) and splashform-type (SF) Australasian tektites (AAT) occur together are not frequent. The chemical compositions of one SF-AAT and one MN-AAT from the locality close to Laotian city of Paxe measured with EPMA and LA-ICP-MS are compared. Contents of many elements in MN-AAT are broadly and/or bimodally distributed whereas the distributions in SF-AAT are usually unimodal and less dispersed. SF-AAT displays strong depletion in volatile elements when compared to MN-AAT but it is enriched in, e.g., certain siderophile elements. Compositional trends determined from point analyses of SF and MN AAT are consistent with different source materials involved in their formation but differences in process how both types had formed must be considered as well. Should the siderophile elements analyzed indicate the presence of projectile matter in these tektites the data imply incorporation of this component not only into SF but in part also in MN.

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