

## Interactive comment on "Effect of chemical composition on the electrical conductivity of gneiss at high temperatures and pressures" by Lidong Dai et al.

## Anonymous Referee #1

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This is a much improved submission that most questions have been well answered. I would just want to know how to exclude the effect of iron content on the bulk conductivity. Why the total  $K_{+} + Na_{+} + Ca2_{+}$  is the main contributor? Also it is of strange that DS13 contains less Fe2O3 than DS12 because DS13 contains biotite 3 times than DS12 and the main Fe carrier in these samples should be biotite. It is better to provide the EPMA data of individual mineral in table 2.

Interactive comment on Solid Earth Discuss., https://doi.org/10.5194/se-2017-103, 2017.

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