Solid Earth Discuss.,
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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.

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Discussion paper