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Interactive comment

Interactive comment on "Multifunction waveform generator for EM receiver testing" *by* Kai Chen et al.

Anonymous Referee #1

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The paper describes a step forward in advancing EM generator technology for testing EM receivers. The content is appropriate for publication. The paper is generally well written and thought out although there are a small number of mistakes. The structure of the paper needs some attention. Details of the paper's structural issues and a possible solution are included below.

1. The introduction seems to be too long. For example lines 56 to 64 seems to describes the solution to the problem too soon and would be better placed in a discussions section.

2. Section 4.5 does not really belong in the results section as it is comparing specifications of EM generators and is not in itself a result.

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[Discussion paper]

I recommend a small amount of rearranging of the paper to make it easier to read. I would suggest creating a new section 6 for the conclusions. Then section 5 could be a discussions section which combines lines 56 to 64, from the introduction, together with the text and table from section 4.5.

Some other issues:

In the introduction it is not easy to identify the motivation for the work, e.g. the requirements are a bit lost within some discussions on previous testing of the EMR6. Starting a new paragraph for the sentence at line 50 in the paper would help.

At the end of the introduction there needs to be a paragraph with a brief description of the content of each section.

Line 42 Should it be "... on the surface and in tunnels"? Lines 204-206 Needs some editing because the text is a bit difficult to follow Line 214 sentence doesn't make sense Line 226 delete 'those'

Interactive comment on Geosci. Instrum. Method. Data Syst. Discuss., https://doi.org/10.5194/gi-2017-43, 2017.