

Review of: "Investigations on Input Impedance and Radiation Pattern of a UWB Antenna for Microwave Imaging"

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Potential competing interests: No potential competing interests to declare.

The authors have tried to demonstrate the designing of UWB antenna using a reflector. Though the paper is well organized, I have a few concerns:

1. In the section of Related Works, the papers reviewed and explained are very old and only discuss very well-known ways of designing.
2. In the section of Materials and Methods, which essentially demonstrates the process of designing the proposed antenna, a previously published antenna is taken as a reference, and the same has been designed in the present study with a mere change of reflector. If this is the case, then authors must demonstrate the change with and without the reflector to actually justify the change in design.
3. In the results section, if the RL is not less than -10dB at 3.1-4 GHz, then why investigate this frequency band at all?
4. The title of the paper mentions the application of microwave imaging, but none of the results is correlated to this application. Authors can improve this by adding the correlations of the resolution study for microwave imaging and antenna parameters.
5. In antenna studies, the author should explore the novelty of their paper.