

# 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.

I have carefully reviewed the manuscript titled "Investigations on Input Impedance and Radiation Pattern of a UWB Antenna for Microwave Imaging". First of all, the flow of the paper is so confusing. In view of that, I would like to put forward a few questions to the authors.

1. What is Figure 1? What are these three types of antennas? There is no explanation provided about these antennas before Figure 1.
2. Which are the reference antenna 1 and reference antenna 2 mentioned in the manuscript?
3. UWB antennas are well-known antennas, and there have been a large number of works carried out on CPW UWB antennas. Under this scenario, what is the novelty of this paper?
4. The far-field response shown in Fig. 20 shows that gain is comparatively low when compared to the antenna with FSS in Fig. 9. Justify.
5. Moreover, while providing the radiation response, please provide copol and cross-pol.
6. A comparison table to signify the contribution is missing in the manuscript.
7. In addition, a similar radiator structure is employed in **Wide-band CPW-fed slot antenna with tuning stub and  $\pi$ -strip for WLAN/WiMAX application**".
8. Include antenna parameters such as gain, radiation efficiency plots also in the manuscript. Also, provide simulated and measured radiation patterns in a single figure for individual frequencies.
9. Last but not the least, how is this antenna suitable for microwave imaging?

Therefore, I kindly request the authors to restructure the manuscript to enhance its readability and to provide justifications for the techniques they employed. As it stands, the paper is not suitable for publication in this journal. I regret to inform you that this paper cannot be accepted in its current form.