

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

1

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Potential competing interests: No potential competing interests to declare.

1. What are the performance indices for UWB antenna design in microwave imaging?
2. In order to achieve a uni-directional pattern, the authors declaim the way of the addition of a metallic cavity underneath the monopole-like antenna or the use of a reflector; please state the pros and cons of the two methods.
3. Explain the reason for the decrease in antenna gain when the operating frequency increases (at frequencies of 5GHz, 8GHz, and 10GHz) in Figures 20-22.
4. In the last part, the authors investigated the effect of the size of the reflector on the antenna performance; what are the purposes of increasing the size of the antenna's reflector by 30% and 50%?
5. Please add a table that provides a comparison between the structure and performance of the proposed UWB antenna and the existing state-of-the-art related works.