

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.

This manuscript presents a slot antenna with a T-shaped stub for microwave imaging applications. However, this type of antenna is well established in the literature. Moreover, the performance of the antenna is not good enough. There are some other comments that need to be addressed.

- 1- The gain of the antenna in the whole frequency band has not been investigated.
- 2- The authors claim that the antenna is suitable for microwave imaging applications, but this topic and its reasons are not well discussed in the text.
- 3- The simulated bandwidth of the antenna is wideband, but it's not seen in the measurement. The authors need to clarify this and also check whether the simulation and measurement are correct.
- 4- The measured radiation pattern (Figure 26) is not suitable because it has many fluctuations and the back radiation of the antenna is significant compared to the main lobe. Also, cross-pol radiation is not presented.
- 5- The structure of the antenna is simple, and the innovation of the antenna compared to previous similar antennas has not been determined.

Accordingly, considering the mentioned concerns, this article is not recommended for publication in the Qeios Journal!