

## 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 author has been proposed a UWB antenna for microwave imaging. They also investigate the impedance performance and the radiation patterns of the antenna. The reviewer has some queries, and those are as follows:

- 1. How is the distance between the antenna and the reflector finalized?
- 2. How will the results be affected if the DGS structure is imposed in the FSS part?
- 3. As per the measurement of S11, it is not a UWB antenna. Why has this much S11 difference been achieved? Justify.
- 4. The main beam's direction is positioned at different angles for different frequencies. What is the rationale behind this?
- 5. The back-lobe radiation performance could be better in every case. How will it be improved?
- 6. The co- and cross-polarization discrimination characteristics are missing. Please provide and analyze the same.
- 7. What about the radiation efficiency of the proposed antenna?
- 8. What is the significance of Eq. (1)? Please elaborate.
- Comparative performance needs to be included. Please compare the proposed work with some relevant recent literature.

Decision: Major revision.