

Abstracts

The Effect of Antenna Match on Microwave Radiometric Thermal Patterns

K.L. Carr, R.J. Bielawa, J.F. Regan, A.M. El-Mahdi and J. Shaeffer. "The Effect of Antenna Match on Microwave Radiometric Thermal Patterns." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 189-191.

Microwave thermographic profiles of the breast region of healthy female volunteers were obtained using a 4.7 GHz radiometer. Apparent temperature elevations of about 0.4°C were seen in the areolar (nipple) region compared to the other areas of the breast. At least half of this apparent areolar temperature elevation may be attributed to improved antenna match at that site. The importance of antenna match in the proper evaluation of microwave thermographic studies is emphasized.

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