MAXIMUM PERMISSIBLE EXPOSURE FOR SUBPART C 2.4 GHz BAND

Calculations

Power density at the specific separation:

$S = EIRP / (4R^2\pi)$
$S = (1.2618) / (4 * 1^2 * \pi)$
$S = 0.100411$ mW/cm^2 (at 1 cm)
Limit = 1 mW/cm^2

where

S = Maximum power density (mW/cm^2)
EIRP = Effective Isotropic Radiated Power (mW) – 1.01 dBm
R = distance to the center of the radiation of the antenna (1 cm = limit for MPE)

The maximum permissible exposure (MPE) for the general population is 1 mW/cm^2.

The power density at 1 cm does not exceed the 1.0 mW/cm^2 limit. Therefore, the exposure condition is compliant with FCC rules.

The EIRP was based on a worst case PEAK value of 96.24 dBuV/m at 3 meters for the EUT.

96.24 dBuV/m @ 3 meters = 1.01 dBm EIRP.