Maximum Permissible Exposure Evaluation

Power Density at Specific Separation:

$S = PG/(4R^2\pi)$

Where S = Maximum power density (mW/cm^2)
P = Power input to the antenna (mW)
G = Numeric power gain of the antenna
R = Distance to the center of the antenna = 20 cm

Measured maximum output power (P) is 10.32dBm = 10.764mW
The Numeric power gain of the antenna (G) is -1.9dB = 0.646

$S = (10.764 * 0.646) / (4 * 20^2 * \pi)$
$S = 0.0014$ (mW/cm^2)

The maximum permissible exposure (MPE) for the general population i
The power density at 20 cm distance to the center of the antenna does not exceed the 1 mW/cm^2. Therefore, the exposure condition is compliant with FCC rules.