Maximum Public Exposure to RF (MPE) CFR 15.247 (i), CFR 1.1310 (e)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm^2 at a distance, d, of 20 cm from the EUT.

EUT with highest gain antenna:

Peak Power (dBm) = 20.95 dBm
Peak Power (Watts) = 0.124 W
Gain of Transmit Antenna = 3.2 dB_i = 2.09, numeric
d = Distance = 20 cm = 0.2 m

S = (PG/ $4\pi d^2$) = EIRP/4A = 0.124(2.09)/4*π*0.2*0.2
=0.2592/0.5030 = 0.3392 w/m^2
= (0.5152 W/m^2) (1m^2/W) (0.1 mW/cm^2)
= 0.05152 mW/cm^2

which is << less than 1 mW/cm^2

RSS-102, 2.5.2 Compliance for 2.4 GHz WiFi:

At or above 300 MHz and below 6 GHz the source based time averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x 10^{-2} $f^{0.6834}$ in Watts (adjusted for tune-up tolerance where applicable), where f = frequency in MHz.

1.31 * 10^{-2} * $2440^{0.6834}$ = 2.7 W

EUT max EIRP = 20.95 dBm (124.45mW) + 3.2 dBi (2.08 mW) = dBm = 126.53 mW << 2.7 Watts