Calculation and sample for Confirmation

The maximum measured power output(ERP) is 485 mW(28.86 dBm), the maximum antenna gain is 2 dBi.

The maximum permissible exposure is defined in 47 CFR 1.1310 with f/1500 mW/cm^2.

The transmitter is using indoor antennas that operate at 20 cm or more from nearby persons.

The maximum permitted level is calculated using the general equation:

$$S = P*G/4\pi R^2$$

EIRP =26.86+2.15=29.01dBm=796 mW

R = 20 cm

π = 3.1416

Solving for S, the power density at 20 cm is 0.158 mW/cm^2.

So The power density limit is f/1500 mW/cm^2 for CDMA800 is kept.