ZXV10 W300 V8 MPE calculation

Dear Reviewer,

The maximum measured power output is

802.11b/g: 17.5dBm

The maximum antenna gain for integral antenna is

802.11b/g: 1.8dBi

The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm^2.

The Transmitter is using external antennas that operate at 20 cm or more from nearby persons.

The maximum permitted level is calculated using the general equation:

$S = P' / 4\pi R^2$

802.11b/g: P’ = 17.5dBm+1.8dBi =19.3dBm=85mW

R = 20cm

$\pi = 3.1416$

Solving for S, the power density at 20 cm is

802.11b/g: **0.017mW/cm²**