Zigbee Plug-in Dimmer with load sensing

FCC ID: U2ZZB3102

MPE calculation

Dear Reviewer,

The maximum measured power output is: 14dBm

The maximum antenna gain for integral antenna is: 2.0dBi

The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm?

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' = 14dBm+2.0dBi = 16dBm=39.8mW

R = 20cm

 $\pi = 3.1416$

Solving for S, the power density at 20 cm is: 0.079mW/cm²