MPE Calculation

For Dice Electronics.LLC; Model: BT1DB

FCC ID: V9UBT1DB

RF Exposure Requirements: 47CFR§1.1307(b)
RF Radiation Exposure Limits: 47CFR§1.1310
RF Radiation Exposure Guidelines: 47CFR§2.1091
EUT Frequency Band: 2402 – 2480MHz
Limits for General Population/Uncontrolled Exposure in the band of: 1500 – 100000MHz

Power Density Limit: 1.0mW/cm²;

Equation: S=PG/4PiR²

Where, S=Power Density

P=Power Input to Antenna

G=Antenna Gain

R=distance to the center of radiated antenna

Low Channel (2402MHz):

Power=6.67dBm, Antenna Gain=0.54dBi, Prediction distance 20cm

 $S=(4.65*1.13)/(4*3.14*20^2)=0.001 \text{ mW/cm}^2$

Result

The above result had shown that device complied with 1.0mW/cm² Power density requirement for distance of 20 cm.

Completed By: Peter Cai Data: November 8, 2010