MPE CALCULATION

For Exalt Communication, Inc- 5GHz Radio Module

FCC ID: TTM-105P25T

RF Exposure Requirements: RF Radiation Exposure Limits: RF Radiation Exposure Guidelines: EUT Frequency Band:

Limits for General Population/Uncontrolled Exposure in the band of: Power Density Limit:

Equation: S = PG / $4\pi R^2$ or R = $\sqrt{PG} / 4\pi S$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

Point to point Link

Antenna Model: Parabolic (SPD6-5.2) ~ 37.9dBi,

5745 – 5825 MHz, Power = 24.9 dBm, Antenna Gain = 37.9dBi, R= 400cm

Power density = 0.95 mW/ cm2

Result

The Above Result had shown that Device complied with 1mW/cm2 Power density requirement for distance with minimum distance of 400cm

Antenna Model: Flat Panel (MT-486013/NVH) ~ 29dBi

5250MHz to 5350MHz & 5470MHz to 5725MHz, Max EIRP Power = 30dBm, (with 1dBm output power)

R= 8.9cm

Result

The Above Result had shown that Device complied with 1mW/cm² Power density requirement for distance with minimum distance of 8.9cm

Antenna Model: Parabolic (SPD6-5.2) ~ 37.9dBi,

5250MHz to 5350MHz & 5470MHz to 5725MHz, Max EIRP Power = 30dBm, (with -7.9dBm output power)

R= 8.9cm

Result

The Above Result had shown that Device complied with 1mW/cm² Power density requirement for distance with minimum distance of 8.9cm

Completed By : Choon Sian Ooi Date : March 13, 2013 47 CFR §1.1307(b) 47 CFR §1.1310 FCC OST/OET Bulletin Number 65 5745 – 5825 MHz, 5250MHz to 5350MHz & 5470MHz to 5725MHz 1.5 – 100 GHz 1 mW/ cm²;