MPE CALCULATION

For Qualcomm Incorporated – Trailer Tracking Device FCC ID: J9CTT210Q1WW2

RF Exposure	Requirements:
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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 DensityP = Power Input to AntennaG = Antenna GainR = distance to the center of radiated antenna

47 CFR §1.1307(b)

47 CFR §1.1310

FCC OST/OET Bulletin Number 65

300 ~ 1500 MHz, 1500 ~100,000MHz 30MHz – 300MHz

0.2 mW/ cm²

Cellular

ERP Power = 2356.55mW, MPE limit = 0.566mW/cm²

By using equation R = $\sqrt{PG} / 4\pi S$

R= 20cm

Result

The Above Result had shown that the minimum separation distance in order to meet MPE requirement is 0.468mW/cm².

PCS

EIRP Power = 1258.930mW, MPE limit = 1mW/cm² By using equation R = $\sqrt{PG} / 4\pi S$ **R= 20cm**

Result

The Above Result had shown that the minimum separation distance in order to meet MPE requirement is 0.250mW/cm².

Completed By: Dan Coronia Date: January 24, 2012