

## MPE CALCULATION

**For Raveon Technologies Corporation– Radio data Modem, Model: RV-M7-VB**

**FCC ID: SRSM7-VB**

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band:	150 ~174MHz
Limits for General Population/Uncontrolled Exposure in the band of:	30MHz – 300MHz
Power Density Limit:	0.2 mW/ cm <sup>2</sup> ;

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

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Power = 37.00dBm, Antenna Gain = 6dBi, MPE limit=0.2mW/cm<sup>2</sup>

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

R= 90cm

### Result

The Above Result had shown that the minimum separation distance in order to meet MPE requirement is 89.094cm.

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Date : March 19, 2010