

FCC ID: S29DEVO-F7

RF Exposure requirements

MPE Evaluation

$$S = PG * \text{Duty factor} / 4\pi R^2$$

P = Peak Power Input to antenna (Watts)

G =Antenna Gain (numeric)

R = distance to the center of radiation of antenna (in centimeter) = 0.20 m

Note:

1) $P \text{ (Watts)} = (10^A \text{ (dBm / 10)}) / 1000$

2) $G \text{ (Antenna gain in numeric)} = 10^A \text{ (Antenna gain in dBi / 10)}$

3) Duty factor

4) $\pi = 3.142$

MPE Results

Antenna Gain (dBi)	Peak Output Power (dBm)	Peak Output Power (mW)	Duty factor	Calculated RF Exposure @ 20cm (mW/cm ²)	Limit (mW/cm ²)
≤ 3	13.21	20.94	1	0.0041	1

The device complies with RF exposure requirements for body exposure at a separation distance of 20 cm.

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Device operation distance

The following picture demonstrate that this device meet the > 20cm Distance requirement in worst case operating conditions.

Picture1: Close to chest (40cm from antenna to torso) normal operation

