MPE CALCULATION

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:	2402 - 2480 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
Power Density Limit:	1 mW / cm^2

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

Prediction distance 20cm

Power = mW (Maximum peak output power),

Antenna Gain = 0.1 dBi,

Mode	Prediction distance (cm)	Target Power (dBm)	Tune up power tolerance (dB)	Max Tune up Power (dBm)	Max Antenna Gain (dBi)	Power density (mW/ cm^2)
BT LE	20	-1.58	1.5	-0.08	0.1	0.0001999

Note: MPE calculation was calculated on the worst case scenario. In this case the high channel is investigated.

In conclusion, SAR is not required. The maximum power density is 0.0001999 mW/ cm^2, which is less than 1 mW/ cm^2.

The above result demonstrates that the device complied with MPE requirement.

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