

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:	300-1500MHz, 1500 ~100,000MHz
Power Density Limit:	f/1500 mW/ cm ² , 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

MPE test Result

Radio Mode	Frequency (MHz)	Meas Output Power (dBm)	Antenna Gain (dBi)	Power Density (mw/cm ²)	Max tune-up Power (dBm)	Scaled Power Density (mw/cm ²)	Power Density Limit(mw/cm ²)
LTE Band 13	1930-1995	24.02	3	0.100	24.5	0.112	0.5
LTE Band 4	2110-2155	24.346	3	0.108	24.5	0.112	1

$$\text{Total Ratio} = (P_{\text{LTE band 13}}/0.5) + (P_{\text{LTE band 4}}/1) = 0.224 + 0.112 = 0.336 < 1$$

The Above Result had shown that Device complied with MPE requirement.

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