FCC ID: 2AHTD-CCB2

MPE Calculation

Regulation(s): Part 1.1310, Part 2.1091

Method: KDB447498 D01v06

RF feature(Mode)	Frequency range (MHz)			Max Target Power (dBm)	ANT Gain including cable loss(dBi) ^{Note2}	Maximum EIRP (dBm)	Maximum EIRP (mW)	Maximum power density (mW/cm²)	Requirement (mW/cm²)
LTE Band 2	1 850.00	~	1 910.00	25.00	3.45	28.45	699.842	0.139 3	1.000 0
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Note1: Please refer to the tune-up procedure for Max tune-up power.

Note2: Antenna gain including cable loss(dBi) = Antenna gain(5dBi) - Cable loss between transmitter and antenna(1.55dB) = 3.45dBi

The EUT will only be used with a separation of 20 centimeters or greater between the antenna and the body of the user.

The MPE sample calculation for this exposure is shown below.

• **S** = EIRP / (4 $R^2 \pi$)

699.842 / (4 \times 20² \times π)

 $= 0.139 \text{ mW/cm}^2$

- Note

S= Maximum power density(mW/cm²)

EIRP= Equivalent Isotropic Radiated Power(mW)

R= Distance to the center of the radiation of the antenna(20cm)

Part 1.1310

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)		Electric Field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm²)	Averaging time (minutes)	
0.3	~	1.34	614	1.63	*100	30
1.34	~	30	824/f	2.19 / f	*180 / f ²	30
30	~	300	27.5	0.073	0.2	30
300	~	1,500			f / 1500	30
1,500	~	100,000			1.0	30

Conclusion: The exposure condition of this device is compliant with FCC