MPE Calculation: LTE

RF function or Mode	Frequency range (MHz)			Tune-up Max Conducted power(dBm)	Measured Conducted power(dBm)	Measured EIRP (dBm)	Adjusted EIRP to tune-up Max(dBm)	Maximum power density (mW/cm²)	Requriment (mW/cm²)
LTE Band 7	2502.50	~	2567.50	23.00	22.04	21.02	21.98	0.0314	1.000
		~							
		~							
		~							
		~							
		~							
		~							
		~							

Note1: Please refer to the operation description for Max tune-up power.

Note2: Adjusted EIRP to tune-up Max = Measured EIRP + (Tune-up Max. Conducted power - Measured Conducted power)

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 R²
$$\pi$$
)
= 21.98 / (4 X 20² X π)
= 0.0314 mW/cm²

- Note

S= Maximum power density(mW/cm²)

EIRP= Equivalent Isotropic Radiated Power(mW)

R= Distance to the center of the radiation of the antenr

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)		Electric Field strength (V/m)	Magnetic field strength (A/m)	Power Density (mW/cm ²)	Averageing 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