MPE Calculation

RF feature(Mode)	Frequency range (MHz)			Measured Max. Average Power(dBm) Note2	Max Tune-up Power(dBm) Note1	ANT Gain (dBi)	Maximum EIRP (dBm)	Maximum EIRP (mW)	Maximum power density (mW/cm^2)	Requirement (mW/cm^2)
UWB	**6 489.60**	**~**	**7 987.20**	**-11.00**	**-10.00**	**3.30**	-6.70	0.214	0.000 1	**1.000 0**
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Note1: Please refer to the operation description for Max tune-up power.

Note2: The Max.average power was measured using a wideband gated RF power meter and gate parameters was adjusted such that power is measured only then the EUT is transmitting at its maximum 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 R^2 π)   **- Note**

     =   0.214   / (4 X 20^2 X π)   S= Maximum power density(mW/cm^2)

     =   0.0001   mW/cm^2 EIRP= Equivalent Isotropic Radiated Power(mW)

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

▪ **Limits for Maximum Permissible Exposure (MPE)**

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