FCC ID: 2ADQJ-EWBP1BR1

MPE Calculation : 802.11p

Transmit Antenna	Frequency range (MHz)			Max Target Power (dBm)	ANT Gain (dBi)	Maximum EIRP (dBm)	Maximum EIRP (mW)	Maximum power density (mW/cm^2)	Requriment (mW/cm^2)	MPE ratio (Power Density/ Requirement)
Antenna 1	5860.00	~	5920.00	17.00	1.00	18.00	63.096	0.013	1.000	0.013
Antenna 2	5860.00	~	5920.00	17.00	1.00	18.00	63.096	0.013	1.000	0.013
		~								

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)

= 63.096 / (4 X 20^2 X π)

= 0.013 mW/cm^2

- Note

S= Maximum power density(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)	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

▪ Simultaneous operations

- Configuration : Antenna 1 + Antenna 2

Σ of MPE ratios	Requirment
0.026	Σ of MPE ratios ≤ 1

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