FCC ID: 2AVCWMWC-2143

## **MPE Calculation**

Regulation(s): Part 1.1310, Part 2.1091

Method: KDB447498 D01v06

RF feature(Mode)	Frequency range (MHz)			Separation distance(cm)	Max. tune-up EIRP (dBm) <sup>Note1</sup>	Maximum EIRP (mW)	Maximum power density(mW/cm²)	Requirement (mW/cm²)
802.11ad	58 320.0	~	69 120.0	25.15	39.00	7 943.3	0.999 4	1.000
		~						
		~						
		~						
		~						
		~						
		~						
		~						

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

Note2: To comply with RF exposure requirements, a minimum separation distance of 25.15cm must be maintained between the antenna and the body of the user.

The MPE sample calculation for this exposure is shown below.

• S = EIRP /  $(4 R^2 \pi)$ 

- Note

=  $7943.283 / (4 \times R^2 \times \pi)$ 

S= Maximum power density(mW/cm<sup>2</sup>)

 $= 0.9994 \text{ mW/cm}^2$ 

EIRP= Equivalent Isotropic Radiated Power(mW)

R= Distance to the center of the radiation of the antenna(25.15cm)

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 <sup>2</sup>	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