FCC ID: 2AVCWMWC-441

MPE Calculation

Regulation(s): Part 1.1310, Part 2.1091

Method: KDB447498 D01v06

RF feature(Mode)	Frequency range (MHz)			Separation distance(cm)	Max. Target EIRP (dBm) ^{Note1}	Maximum EIRP (mW)	Maximum power density(mW/cm²)	Requirement (mW/cm²)
802.11ad	58320.0	~	64800.0	20.00	28.00	630.958	0.1255	1.000
		~						
		~						
		~						
		~						
		~						
		~						
		~						

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

Note2: The device must be installed such that a minimum separation distance of at least 20 cm is maintained between the radiator (antenna) and all persons at all times.

The MPE sample calculation for this exposure is shown below.

• **S** = EIRP / ($4 R^2 \pi$)

- Note

= $630.958 / (4 \times R^2 \times \pi)$

S= Maximum power density(mW/cm²)

= 0.1255 mW/cm²

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)

Frequ	uency (MHz)	•	Electric Field strength	Magnetic field strength	Power Density (mW/cm²)	Averaging time (minutes)
, ,			(V/m)	(A/m)	()	, , , ,
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