FCC TEST REPORT Report No.: FR502506

4.11 RF Exposure

FCC Rules and Regulations Part 1.1307, 1.1310, 2.1091, 2.1093:

RF Exposure Compliance

4.11.1Limits of Maximum Permissible Exposure (MPE)

(A) Limits for Occupational / Controlled Exposure

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Frequency	Range	Electric	Field	Magnetic	Field	Power Density (S)	Averaging Time	
(MHz)		Strength (E)) (V/m)	Strength (H)	(A/m)	(mW/cm ²)	E 2, H 2 or S	
							(minutes)	
0.3-3.0		614		1.63		(100)*	6	
3.0-30		1842/f		4.89/f		(900/f)*	6	
30-300		61.4		0.163		1.0	6	
300-1500						F/300	6	
1500-100,000)					5	6	

(B) Limits for General Population / Uncontrolled Exposure

Frequency	Range	Electric	Field	Magnetic	Field	Power Density (S)	Averaging Time
(MHz)	_	Strength (E)	(V/m)	Strength (H)	(A/m)	(mW/cm²)	E 2, H 2 or S
							(minutes)
0.3-1.34		614		1.63		(100)*	30
1.34-30		824/f		2.19/f		(180/f)*	30
30-300		27.5		0.073		0.2	30
300-1500						F/1500	30
1500-100,000						1.0	30

F=frequency in MHz

4.11.2MPE Calculations

$${\rm E \ (V/m) \ } = \frac{\sqrt{30 \times P \times G}}{d} \qquad {\rm Power \ Density:} \quad {\rm Pd \ (mW/cm^2) \ } = \frac{E^2}{377}$$

E = Electric field (V/m)

P=Peak output power (mW)

G=Antenna numeric gain (numeric)

d=Separation distance (m)

Because the EUT is belong to General Population/ Uncontrolled Exposure. So the Limit of Power Density is 1.0 mW/cm². We can change the formula to:

$$d = \sqrt{\frac{30 \times P \times G}{377}}$$

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^{*}Plane-wave equivalent power density

CCK

Channel NO.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)
CH 01	2.44	1.75	17.64	58.0764	0.0203	1
CH 06	2.44	1.75	17.85	60.9537	0.0213	1
CH 11	2.44	1.75	17.54	56.7545	0.0198	1

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OFDM

Channel NO.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated RF Exposure Separation Distance (m)	Minimum RF Exposure Separation Distance (m)
CH 01	2.44	1.75	18.54	71.4496	0.0249	1
CH 06	2.44	1.75	18.91	77.8037	0.0272	1
CH 11	2.44	1.75	18.79	75.6833	0.0264	1

4.11.3FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation. It is proposed to include the RF exposure safety information in user manual.

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