FCC ID: RS5-CAMRYRX

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency	Electric Field	Magnetic Field	Power	Average Time				
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)					
(A) Limits for Occupational/Control Exposures								
300-1500			F/300	6				
1500-100000			5	6				
(B) Limits for General Population/Uncontrol Exposures								
300-1500			F/1500	6				
1500-100000			1	30				

11.1 Friis transmission formula: Pd= (Pout*G)\ (4*pi*R2)

Where

Pd= Power density in mW/cm²

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1416

R= distance between observation point and center of the radiator in cm(20cm)

Pd the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

mW=10^(dBm/10)

11.2 Measurement Result

Operation Frequency: 2405.377MHz~2477.569MHz

Power density limited: 1mW/cm² Antenna Type: Internal Antenna

Antenna gain: 0dBi,

R=20cm

 $mW=10^{(dBm/10)}$

FHSS:

Channel		conducted power	conducted power	Tune-up	Max	Antenna	Evaluation result	Power density Limits
Freq. (MHz)	modulation	(mW)	(dBm)	power (dBm)	tune-up power	Gain	(mW/cm2)	(mW/cm2)
, ,				, ,	(dBm)	Numeric		
2405.377		6.40	8.063	8±1	9	1.00	0.001580	1
2440.705	GFSK	7.53	8.767	8±1	9	1.00	0.001580	1
2477.569		5.89	7.702	8±1	9	1.00	0.001580	1

emission

Power density Limits (mW/cm2) FHSS	Calculate Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
0.001580	0.001580	1

Conclusion:

For the max result : 0.001580≤ 1.0, compliance with FCC's RF Exposure.

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