FCC ID: 2AJ7E-HTP601-B

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				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: 2402MHz~2480MHz

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

Antenna gain: 1.0dBi,

R=20cm

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

Bluetooth DTS:

Channel Freq. (MHz)	modulation	conducted power	conducted power	Tune-up power (dBm)	Max	Antenna	Evaluation result	Power density Limits
		(mW)	(dBm)		tune-up power	Gain	(mW/cm2)	(mW/cm2)
,				(,	(dBm)	Numeric		
2402		1.96	2.921	3.9±1	4.9	1.26	0.000491	1
2440	GFSK	2.62	4.182	3.9±1	4.9	1.26	0.000656	1
2480		3.06	4.862	3.9±1	4.9	1.26	0.000767	1

Conclusion:

For the max result : 0.000767≤ 3.0 for 1g SAR, No SAR is required.

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