FCC ID:2AHSK-OHM-4009

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						
				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

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.

11.2 Measurement Result

Operation Frequency: 2402MHz~2480MHz

Power density limited: 1mW/ cm²

Antenna gain: 1dBi, Bluetooth DSS:

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	GFSK	0.37	-4.296	-5±1	-4	1.26	0.000100	1
2441		0.37	-4.330	-5±1	-4	1.26	0.000100	1
2480		0.35	-4.559	-5±1	-4	1.26	0.000100	1
2402	pi/4- DQPSK	0.35	-4.592	-5±1	-4	1.26	0.000100	1
2441		0.34	-4.632	-5±1	-4	1.26	0.000100	1
2480		0.28	-5.507	-5±1	-4	1.26	0.000100	1
2402	8DPSK	0.34	-4.624	-5±1	-4	1.26	0.000100	1
2441		0.34	-4.656	-5±1	-4	1.26	0.000100	1
2480		0.28	-5.601	-5±1	-4	1.26	0.000100	1

Conclusion:

For the max result : $0.0001 \le 1$ for 1g SAR, No SAR is required.

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Signature: **Date:** 2016-4-12

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