

Shenzhen Toby Technology Co., Ltd.



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RF Exposure Evaluation FCC ID: 2BAFB-R-S60RGB

1. Client Information

Applicant	:	Dongguan City Tulifang Photographic Equipment Co., Ltd			
Address : GD Modern Internation Dongguan, Guangdong		GD Modern International Exhibition Center Side, Houjie, Dongguan, Guangdong Province, China			
Manufacturer	:	Dongguan City Tulifang Photographic Equipment Co., Ltd			
Address		GD Modern International Exhibition Center Side, Houjie, Dongguan, Guangdong Province, China			

2. General Description of EUT

EUT Name	1	LED photo/video light				
Model(s) No.		R-S60B, R-S36B, R-S36RGB, RSF-11-RGB				
Model Difference	1	All these models are identical, in the same PCB, layout and circuit, the only difference is that the model name is different				
Product Description	1	Operation Frequency:	Bluetooth 5.0: 2402MHz~2480MHz			
		Number of Channel:	Bluetooth 5.0: 79 channels			
		Antenna Gain:	2.5dBi PCB Antenna			
		Modulation Type:	GFSK			
		Bit Rate of Transmitter:	1/2Mbps			
Power Supply	6	Adapter:FJ-SW20171504000D Input:AC 100-240V~50/60Hz, 1.5A Max Output:15V,4A				
Software Version		1.0				
Hardware Version	1/1	1.0				

Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

Note: More test information about the EUT please refer the RF Test Report.



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SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR





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2. Calculation:

Test separation	n: 5mm			W.	6.3	
	Miller	Blu	etooth LE Mode 1Mbps			AHOUSE
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.362	2±1	3	1.995	0.618	3.0
2.440	2.383	2±1	3	1.995	0.623	3.0
2.480	2.487	2±1	3	1.995	0.628	3.0
0	The same of	В	luetooth Mode 2Mbps			
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.405	2±1	3	0.618	0.618	3.0
2.440	2.417	2±1	3	0.623	0.623	3.0
2.480	2.542	2±1	3	0.628	0.628	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

----END OF REPORT----

