



RF Exposure Evaluation

FCC ID: 2BAFB-PL-60RGB

1. Client Information

Applicant	:	Dongguan City Tulifang Photographic Equipment Co., Ltd
Address	:	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	:	LED photo/video light
Model(s) No.	:	PL-60RGB, PL-60B
Model Difference	:	All PCB boards and circuit diagrams are the same, the only difference is that model names.
Product Description	:	Operation Frequency: Bluetooth 5.0(BLE): 2402MHz~2480MHz
	:	Antenna Gain: 2.5dBi PCB Antenna
Power Supply	:	For Adapter (Model: JRYM1903420) Input: 100-240V~ 50/60Hz 3.0A Output: 19.0V---3.42A DC 11.1V 4500mAh 49.95Wh Rechargeable Li-ion battery
Software Version	:	1.0
Hardware Version	:	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.

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)] * $\sqrt{f(\text{GHz})} \leq 3.0$ for 1-g SAR

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



2. Calculation:

Test separation: 5mm						
Bluetooth LE 1M						
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	2.677	3±1	4	2.512	0.779	3.0
2.440	2.947	3±1	4	2.512	0.785	3.0
2.480	3.336	3±1	4	2.512	0.791	3.0

Test separation: 5mm						
Bluetooth LE 2M						
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	2.701	3±1	4	2.512	0.779	3.0
2.440	2.961	3±1	4	2.512	0.785	3.0
2.480	3.335	3±1	4	2.512	0.791	3.0

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 THE REPORT-----

