

# RF Exposure Evaluation

## FCC ID:2AZWI-3473LEQI

### 1. Client Information

<b>Applicant</b>	:	Shenzhen Leqi Network Technology Co., LTD
<b>Address</b>	:	Room 101, Building 9 & Room 401, Building 12, Yazhou Industrial Park, Bantian, Longgang, Shenzhen, Guangdong, China.
<b>Manufacturer</b>	:	Shenzhen Leqi Network Technology Co., LTD
<b>Address</b>	:	Room 101, Building 9 & Room 401, Building 12, Yazhou Industrial Park, Bantian, Longgang, Shenzhen, Guangdong, China.

### 2. General Description of EUT

<b>EUT Name</b>	:	LED Video Light
<b>Model(s)</b>	:	RC120D, RC120B, RC220D, RC220B
<b>Model Difference</b>	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is the model name and appearance.
<b>Product Description</b>	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz
	Number of Channel:	Bluetooth 5.0(BLE): 40 channels
	Antenna Gain:	2.3dBi PCB Antenna
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	1Mbps
<b>Power Rating</b>	:	Input: AC 100V 240A~50/60Hz, 2A Output: DC 19V7.89A, 149.91W
<b>Software Version</b>	:	V1
<b>Hardware Version</b>	:	V1
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual
<b>Remark:</b> 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  $\leq 5$  mm are determined by:

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

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

**2. Calculation:**

Test separation: 5mm						
BLE Mode (1Mbps)						
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	-7.804	-7±1	-6	0.251	0.078	3.0
2.442	-5.200	-5±1	-4	0.398	0.124	3.0
2.480	-2.642	-2±1	-1	0.794	0.250	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.

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