

RF Exposure Evaluation

FCC ID: 2AXGU-LAKM-001

1. Client Information

Applicant	:	Shenzhen Chiheng Industrial Co., Ltd
Address	:	Room 202, Building A, Dade Zhichuang City, No. 6 Tangwei Industrial Avenue, Fuhai Street, Baoan District, Shenzhen. China.
Manufacturer	:	Shenzhen Chiheng Industrial Co., Ltd
Address	:	Room 202, Building A, Dade Zhichuang City, No. 6 Tangwei Industrial Avenue, Fuhai Street, Baoan District, Shenzhen. China.

2. General Description of EUT

EUT Name	:	Remote Shutter
Models No.	:	lakm-001, lakm-002, lakm-003, lakm-004, lakm-005, lakm-006
Model Different	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is that appearance.
Product Description	Operation Frequency:	Bluetooth 5.0(BLE): 2402MHz~2480MHz
	Number of Channel:	Bluetooth 5.0(BLE): 40 channels
	RF Output Power:	GFSK (BLE) : -3.391dBm
	Antenna Gain:	0dBi PCB Antenna
Power Rating	:	DC 3.0V by button cell
Software Version	:	----
Hardware Version	:	----
Connecting I/O Port(S)	:	Please refer to the User's Manual

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:

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

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

2. Calculation:

Test separation: 5mm						
Bluetooth Mode (GFSK)						
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	-4.464	-4±1	-3	0.501	0.156	3.0
2.440	-3.391	-3±1	-2	0.631	0.197	3.0
2.480	-3.404	-3±1	-2	0.631	0.199	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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