# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE149029

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# RF Exposure Evaluation FCC ID: 2AI8E-FATL03I

# 1. Client Information

**Applicant**: FUAI Photoelectric Technology (Shenzhen) Co., Ltd.

Address : Jingkai Building 303 Room, The Silicon Valley Power Qinghu Park

C2 Building, Longhua New District, Shenzhen, China

Manufacturer : FUAI Photoelectric Technology (Shenzhen) Co., Ltd.

Address : Jingkai Building 303 Room, The Silicon Valley Power Qinghu Park

C2 Building, Longhua New District, Shenzhen, China

2. General Description of EUT

<b>EUT Name</b>	<b>\</b> :	Intelligent outdoor lamp				
Models No.	:	FA-TL03-I				
Brand Name	1	FUAI				
Model Difference	:	N/A				
Product Description		Operation Frequency: BLE:2402~2480MHz				
		Number of Channel:	BLE:40 Channels			
		Max Peak Output Power: GFSK:-2.553 dBm				
		Antenna Gain: 0.5 dBi PCB Antenna				
		Modulation Type:	1Mbps(GFSK)			
Power Supply	:	DC Voltage supplied from Host System by USB cable. DC power by Li-ion Battery.				
Power Rating	:	DC 5.0V by USB cable. DC 3.7V by 4000mAh Li-ion Battery.				
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.

TB-RF-074-1. 0

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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:

BLE Mode (GFSK)								
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value			
2.402	-2.553	±0.5	0.623	0.193	3.0			
2.442	-3.961	±0.5	0.451	0.141	3.0			
2.480	-5.425	±0.5	0.322	0.101	3.0			

So standalone SAR measurements are not required.