



Test Report No.: FS170424N001

RF EXPOSURE REPORT

Applicant	Shenzhen Baojia Battery Technology Co.,Ltd.
Address	Block A, Yonghe Road, Tongfuyu Industrial Zone Heping, Fuyong, Baoan, Shenzhen, 518103 China

Manufacturer or Supplier	Shenzhen Baojia Battery Technology Co.,Ltd.
Address	Block A, Yonghe Road, Tongfuyu Industrial Zone Heping, Fuyong, Baoan, Shenzhen, 518103 China
Product	PLAYBULB solar
Brand Name	MIPOW
Model	BTL601
Additional Model & Model Difference	N/A
Date of tests	Apr. 24, 2017 ~ May 08, 2017

☒ **FCC Part 2 (Section 2.1091)**☒ **KDB 447498 D01**☒ **IEEE C95.1****CONCLUSION: The submitted sample was found to COMPLY with the test requirement**Tested by Breeze Jiang
Project Engineer / EMC DepartmentApproved by Glyn He
Supervisor / EMC Department

Date: May 18, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS170424N001	Original release	May 08, 2017

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1. CERTIFICATION

FCC ID:	SL7BTL601
PRODUCT:	PLAYBULB solar
BRAND NAME:	MIPOW
MODEL NO.:	BTL601
ADDITIONAL NO.:	N/A
TEST SAMPLE:	Engineering Sample
APPLICANT:	Shenzhen Baojia Battery Technology Co.,Ltd.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	3	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
2402-2480	0	+/-2	-2	2

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BTLE(GFSK)	2402	-0.91

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	2	3	20	0.00063	1.0

--- END ---