



**BUREAU
VERITAS**

Test Report No.: FS170322N052

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 ZOOCORO
Brand Name	MIPOW
Model	BTL302W
Additional Model & Model Difference	N/A
Date of tests	Mar. 25, 2017 ~ Apr. 17, 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 Department	Approved by Glyn He Supervisor / EMC Department
	 Date: Apr. 24, 2017

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS170322N051	Original release	Apr. 24, 2017

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1. CERTIFICATION

FCC ID:	SL7BTL302W
PRODUCT:	PLAYBULB ZOOCORO
BRAND NAME:	MIPOW
MODEL NO.:	BTL302W
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
2402-2480 for FHSS	2	PCB Antenna
2402-2480 for DTS	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)
GFSK	2402-2480	-6	+/-2	-8	-4
8DPSK	2402-2480	-6	+/-2	-8	-4
BTLE(GFSK)	2402-2480	-2	+/-2	-4	0

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2480	-4.81
8DPSK	2480	-5.04
BTLE(GFSK)	2480	-0.75

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480 for FHSS	-4	2	20	0.00013	1.0
2402-2480 for DTS	0	3	20	0.00040	1.0



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CONCLUSION:

The FHSS and DTS can transmit simultaneously, the formula of calculated the MPE is:

$$\text{CPD1} / \text{LPD1} + \text{CPD2} / \text{LPD2} + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$(0.00013/1) + (0.00040/1) = 0.00053 < 1, \text{ which is less than the "1" limit.}$$

--- END ---