



Test Report No.: FM2312WDG0098-1





RF EXPOSURE REPORT

Applicant	Winners Industry Co., Ltd.
Address	1400 BRANDYWINE DRIVE, TYLER, TX 75703, United States

Manufacturer or Supplier	Winners Industry Co., Ltd.
Address	1400 BRANDYWINE DRIVE, TYLER, TX 75703, United States
Product	light string & music box & remote control & adapter
Brand Name	N/A
Model	24MG-WRGB1838
Additional Model & Model Difference	N/A
Date of tests	Dec. 14, 2023 ~ Jan. 05, 2024

- FCC Part 2 (Section 2.1091)
- KDB 447498 D01 V06
- IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Loren Luo Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	
	Date: Apr. 01, 2024

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Bureau Veritas Shenzhen Co., Ltd.
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**BUREAU
VERITAS**

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2312WDG0098-1	Original release	Apr. 01, 2024

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1. CERTIFICATION

FCC ID:	2BBPU-24MG-WRGB1838
PRODUCT:	light string & music box & remote control & adapter
BRAND NAME:	N/A
MODEL NO.:	24MG-WRGB1838
ADDITIONAL NO.:	N/A
APPLICANT:	Winners Industry Co., Ltd.
STANDARDS:	FCC Part 2 (Section 2.1093)
	KDB 447498 D01 V06
	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

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

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	-1.54	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
GFSK	2402-2480	-2	+/-2	-4	0
8DPSK	2402-2480	-1	+/-2	-3	1

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2480	-1.83
8DPSK	2480	-1.17

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	1	-1.54	20	0.000176	1.0

--- END ---