

## TEST REPORT

**Report Reference No.....** MTEB23120195-H

**FCC ID.....** 2BD6H-EB-243C

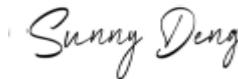
Compiled by

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Date of issue..... **Dec. 22, 2023**

**Representative Laboratory Name :** Shenzhen Most Technology Service Co., Ltd.

Address ..... No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,  
Nanshan, Shenzhen, Guangdong, China.

**Applicant's name .....** NINGBO JIAYUAN WINDOW COVERINGS CO.,LTD

Address ..... Sibei industrial area,simen town,yuyao city,zhejiang province,china

**Test specification/ Standard .....** 47 CFR Part 1.1307

47 CFR Part 2.1093

TRF Originator..... Shenzhen Most Technology Service Co., Ltd.

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**Test item description .....** motorized shades

Trade Mark ..... Blindify

Model/Type reference..... EB-243C

Listed Models ..... N/A

Modulation Type ..... FSK

Operation Frequency..... 433.92MHz

Hardware version ..... ERD30-T-N32 V1.3.1

Software version ..... WSMOTORHCR0041-V2.1.5

Rating ..... DC 3V by Battery

Result..... **PASS**

**TEST REPORT**

Equipment under Test : motorized shades

Model /Type : EB-243C

Listed Models : N/A

Remark : N/A

Applicant : NINGBO JIAYUAN WINDOW COVERINGS CO.,LTD

Address : Sibei industrial area,simen town,yuyao city,zhejiang province,china

Manufacturer : NINGBO JIAYUAN WINDOW COVERINGS CO.,LTD

Address : Sibei industrial area,simen town,yuyao city,zhejiang province,china

<b>Test Result:</b>	<b>PASS</b>
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

## Contents

### 1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2023.12.22	Initial Issue	Alisa Luo

## 2.1 RF Exposure Compliance Requirement

### 2.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

#### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

### 2.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$$

$[\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

## 2.1.3 EUT RF Exposure

$$\text{EIRP} = \text{PT} \times \text{GT} = (E \times D)^2 / 30$$

where:

PT = transmitter output power in watts,  
 GT = numeric gain of the transmitting antenna (unitless),  
 $E = \text{electric field strength in V/m, } -10^{\frac{(\text{dB}\mu\text{V/m})/20}{10^6}} / 10^6$ ,  
 D = measurement distance in meters (m)---3m,  
 So  $\text{PT} = (E \times D)^2 / 30 / \text{GT}$

The worst case (refer to report MTEB23120195 -R) is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dBuV/m)	Polarization
433.92	59.8	Peak
433.92	51.86	Average

Antenna polarization: Vertical		
Frequency (MHz)	Level (dBuV/m)	Polarization
433.92	62.92	Peak
433.92	54.99	Average

For 433.92MHz wireless:

Field strength=62.92dBuV/m

Ant gain 0dBi; so Ant numeric gain=1

$$\text{EIRP} = \text{PT} \times \text{GT} = (E \times D)^2 / 30 = (10^{\frac{(\text{dB}\mu\text{V/m})/20}{10^6}} / 10^6 \times 3)^2 / 30 = 0.00000059$$

$$\text{So PT} = \text{EIRP}/\text{GT} = 0.00000059 \text{W} = 0.00059 \text{mW}$$

$$\text{So } (0.00059 \text{mW}/5\text{mm}) \times \sqrt{0.43392 \text{GHz}} = 0.000078$$

exclusion=0.000078<3.0 for 1-g SAR

So the SAR report is not required.