

## RF EXPOSURE REPORT

### FOR

|                             |   |                                                                               |
|-----------------------------|---|-------------------------------------------------------------------------------|
| <b>Applicant</b>            | : | JSW(DongGuan)Ltd                                                              |
| <b>Address</b>              | : | 1/F, No. 38 sanjiang Industrial Zone, Hengli Town, Dongguan, Guangdong, China |
| <b>Equipment under Test</b> | : | Battery Powered Video Doorbell                                                |
| <b>Model No.</b>            | : | T1                                                                            |
| <b>Trade Mark</b>           | : | /                                                                             |
| <b>FCC ID</b>               | : | 2AYLFT1                                                                       |
| <b>Manufacturer</b>         | : | JSW(DongGuan)Ltd                                                              |
| <b>Address</b>              | : | 1/F, No. 38 sanjiang Industrial Zone, Hengli Town, Dongguan, Guangdong, China |

**Issued By: Dongguan Dongdian Testing Service Co., Ltd.**

**Add.:** No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,  
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# REPORT

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## Test Report Declare

|                             |   |                                                                               |
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| <b>Model No.</b>            | : | T1                                                                            |
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| <b>Address</b>              | : | 1/F, No. 38 sanjiang Industrial Zone, Hengli Town, Dongguan, Guangdong, China |

**Standard Used:** KDB447498 D01 General RF Exposure Guidance v06

### We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

**After evaluation, our opinion is that the equipment In Accordance with above standard.**

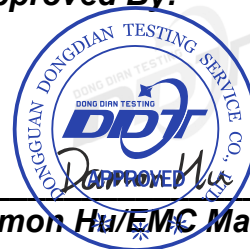
|                         |                   |                      |                               |
|-------------------------|-------------------|----------------------|-------------------------------|
| <b>Report No:</b>       | DDT-R21010404-1E2 |                      |                               |
| <b>Date of Receipt:</b> | Jan. 13, 2021     | <b>Date of Test:</b> | Jan. 13, 2021 ~ Jan. 29, 2021 |

**Prepared By:**

*Sam Li*

**Sam Li/Engineer**

**Approved By:**



**Damon Hu/EMC Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

## Revision History

| Rev. | Revisions     | Issue Date    | Revised By |
|------|---------------|---------------|------------|
| ---  | Initial issue | Jan. 29, 2021 |            |
|      |               |               |            |

## 1. General Information

### 1.1. Description of equipment

|                          |                                                                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT* Name                | : Battery Powered Video Doorbell                                                                                                                         |
| Model Number             | : T1                                                                                                                                                     |
| EUT function description | : Please reference user manual of this device                                                                                                            |
| Power Supply             | : DC 5V from external AC Adapter<br>: DC 3.7V Polymer Li-ion built-in battery                                                                            |
| Radio Technology         | : IEEE 802.11b/g/n                                                                                                                                       |
| Operation frequency      | : IEEE 802.11b: 2412 MHz - 2462 MHz<br>: IEEE 802.11g: 2412 MHz - 2462 MHz<br>: IEEE 802.11n HT20: 2412 MHz - 2462 MHz                                   |
| Modulation               | : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>: IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>: IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)      |
| Transmitter rate         | : IEEE 802.11b: 1, 2, 5.5, 11 Mbps<br>: IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br>: IEEE 802.11n HT20: 6.5, 13, 19.5, 26, 39, 52, 58.5, 65 Mbps |
| Antenna Type             | : Integral PCB antenna, maximum PK gain: 2 dBi                                                                                                           |
| Serial Number            | : N/A                                                                                                                                                    |

### 1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City,  
Guangdong Province, China, 523808

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: [ddt@dgddt.com](mailto:ddt@dgddt.com)

CNAS Registration No. CNAS L6451; A2LA Certificate Number: 3870.01;

FCC Designation Number: CN1182; FCC Test Firm Registration Number: 540522

Industry Canada Site Registration Number: 10288A-1

## 2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$$

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

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

**2.4G WIFI Manufacturing Tolerance**

| 802.11b (Peak)       |           |            |            |
|----------------------|-----------|------------|------------|
| Channel              | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)         | 11        | 11         | 11         |
| Tolerance ±(dB)      | 1         | 1          | 1          |
| 802.11g (Peak)       |           |            |            |
| Channel              | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)         | 12        | 12         | 12         |
| Tolerance ±(dB)      | 1         | 1          | 1          |
| 802.11 n HT20 (Peak) |           |            |            |
| Channel              | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)         | 12        | 12         | 12         |
| Tolerance ±(dB)      | 1         | 1          | 1          |

**Estimtion Result**

The worst case is as below: [2462 MHz, 13 dBm, 19.95 mW) output power]

$(19.95/5) \cdot [\sqrt{2.462(\text{GHz})}] = 6.26 < 7.5$  for 10-g SAR

Then SAR evaluation is not required

**END OF REPORT**