

# 1 Cover Page

## RF MPE REPORT

**Application No.:** SHCR2201000085AT

**FCC ID:** UCZ-B463AJ-Z

**IC :** 8575A-B463AJZ

**Applicant:** Lorex Technology Inc.

**Address of Applicant:** 250 Royal crest Court, Markham, L3R 3S1, Ontario, Canada.

**Manufacturer:** Lorex Technology Inc.

**Address of Manufacturer:** 250 Royal crest Court, Markham, L3R 3S1, Ontario, Canada.

**Equipment Under Test (EUT):**

**EUT Name:** 2K Wire-free Doorbell

**Model No.:** B463AJ-Z

**Standard(s) :** FCC Rules 47 CFR §2.1091  
KDB447498 D01 General RF Exposure Guidance v06  
RSS-102 Issue 5 Amendment 1 (February 2, 2021)

**Date of Receipt:** 2021-12-21

**Date of Test:** 2022-01-06 to 2022-01-25

**Date of Issue:** 2022-01-26

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

*Parlam Zhan*

Parlam Zhan  
E&E Section Manager



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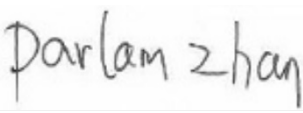
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Testing Center E&E Lab (Shanghai)

NO. 588 West Jindu Road, Songjiang District, Shanghai, China 201612  
中国·上海·松江区金都西路588号 邮编: 201612

t(86-21) 61915666 f(86-21) 61915678 www.sgsgroup.com.cn  
t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

| Revision Record |             |            |        |
|-----------------|-------------|------------|--------|
| Version         | Description | Date       | Remark |
| 00              | Original    | 2022-01-26 | /      |
|                 |             |            |        |
|                 |             |            |        |

|                          |  |                                                                                    |  |
|--------------------------|--|------------------------------------------------------------------------------------|--|
| Authorized for issue by: |  |                                                                                    |  |
|                          |  |  |  |
|                          |  | Micheal Niu / Project Engineer                                                     |  |
|                          |  |  |  |
|                          |  | Parlam Zhan / Reviewer                                                             |  |



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### 3 General Information

#### 3.1 General Description of E.U.T.

|                   |                                                                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply:     | 16 V-24 V, AC wire-powered or DC5V 2A by USB port<br>DC 3.6V Rechargeable Lithium ion Battery<br>Battery Model: 18650/6200mAh/22.32Wh/LS2P<br>Rate Voltage: 3.6V<br>Charging Limit Voltage: 4.2V<br>Rated Capacity: 6200mAh/22.32Wh |
| Serial Number:    | 2M0024EPAG06399                                                                                                                                                                                                                     |
| Software Version: | V2.8                                                                                                                                                                                                                                |

#### 3.2 Technical Specifications

##### 2.4G

|                      |                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------|
| Antenna Gain:        | Ant 1: 1.58dBi (Provided by the manufacturer)<br>Ant 2: 3.42dBi (Provided by the manufacturer) |
| Antenna Type:        | FPC Antenna                                                                                    |
| Channel Spacing:     | 5MHz                                                                                           |
| Modulation Type:     | 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)                |
| Number of Channels:  | 802.11b/g/n(HT20):11                                                                           |
| Operation Frequency: | 802.11b/g/n(HT20): 2412MHz to 2462MHz                                                          |
| Data Rate:           | 802.11b: 1/2/5.5/11 Mbps<br>802.11g: 6/9/12/18/24/36/48/54Mbps<br>802.11n: MCS0-7              |



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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
Testing Center E.U.T.

NO.588 West Jindu Road, Songjiang District, Shanghai, China 201612  
中国·上海·松江区金都西路588号 邮编: 201612

t(86-21) 61915666 f(86-21) 61915678 www.sgs.com.cn  
t(86-21) 61915666 f(86-21) 61915678 e.sgs.china@sgs.com

**5G**

|                      | Band                                                                                           | Mode            | Frequency Range(MHz) | Number of channels |
|----------------------|------------------------------------------------------------------------------------------------|-----------------|----------------------|--------------------|
| Operation Frequency: | UNII Band I                                                                                    | 802.11a/n(HT20) | 5180-5240            | 4                  |
|                      | UNII Band II-A                                                                                 | 802.11a/n(HT20) | 5260-5320            | 4                  |
|                      | UNII Band II-C                                                                                 | 802.11a/n(HT20) | 5500-5700            | 11                 |
|                      | UNII Band III                                                                                  | 802.11a/n(HT20) | 5745-5825            | 5                  |
| Modulation Type:     | 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)           |                 |                      |                    |
| Channel Spacing:     | 802.11a/n(HT20): 20MHz                                                                         |                 |                      |                    |
| Data Rate:           | 802.11a: 6/9/12/18/24/36/48/54Mbps<br>802.11n: MCS0-7                                          |                 |                      |                    |
| Antenna Gain:        | Ant 1: 2.99dBi (Provided by the manufacturer)<br>Ant 2: 2.83dBi (Provided by the manufacturer) |                 |                      |                    |
| Antenna Type:        | Antenna 1: FPC Antenna;<br>Antenna 2: FPC Antenna                                              |                 |                      |                    |

Remark: For frequencies falling between 5150-5250 and 5600-5650MHz will not be used in Canada.



### 3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

### 3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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## 4 Test Standards and Limits

### 4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

| Frequency     | Power density(mW/cm <sup>2</sup> ) | Averaging time(minutes) |
|---------------|------------------------------------|-------------------------|
| 300MHz~1.5GHz | $f/1500$                           | 30                      |
| 1.5GHz~100GHz | 1.0                                | 30                      |

### 4.2 IC Radiofrequency radiation exposure limits:

According to RSS-102 section 2.5.2, RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

- at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $4.49/f^{0.5}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;
- at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);
- at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than  $1.31 \times 10^{-2} f^{0.6834}$  W (adjusted for tune-up tolerance), where  $f$  is in MHz;
- at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

For 2.4G device, the limit of worse case is 2.68 W

For 5G device, the limit of worse case is 4.53W



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 t:(86-21) 61915666 f:(86-21) 61915678 www.sgs.com.cn  
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## 5 Measurement and Calculation

### 5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHCR220100008501-2.4GHz

| Test Mode | Channel | Antenna 1 Power[dBm] | Antenna 2 Power[dBm] | Antenna 1 Power[mW] | Antenna 1 Power[mW] |
|-----------|---------|----------------------|----------------------|---------------------|---------------------|
| 11B       | 2412    | 15.83                | 15.82                | 38.28               | <b>38.19</b>        |
| 11B       | 2437    | 15.88                | 15.82                | 38.73               | 38.19               |
| 11B       | 2462    | 16.04                | 15.50                | <b>40.18</b>        | 35.48               |
| 11G       | 2412    | 15.34                | 15.44                | 34.20               | 34.99               |
| 11G       | 2437    | 15.56                | 15.45                | 35.97               | 35.08               |
| 11G       | 2462    | 15.95                | 15.69                | 39.36               | 37.07               |
| HT20      | 2412    | 15.17                | 15.11                | 32.89               | 32.43               |
| HT20      | 2437    | 15.37                | 15.39                | 34.43               | 34.59               |
| HT20      | 2462    | 15.79                | 15.62                | 37.93               | 36.48               |



5GHz for FCC:

The Power Data is based on the RF Test Report SHCR220100008502-5GHz

| Test Mode | Channel | Antenna 1 Power[dBm] | Antenna 2 Power[dBm] | Antenna 1 Power[mW] | Antenna 1 Power[mW] |
|-----------|---------|----------------------|----------------------|---------------------|---------------------|
| 11A       | 5180    | 10.89                | 10.73                | 12.27               | 11.83               |
| 11A       | 5200    | 10.49                | 10.48                | 11.19               | 11.17               |
| 11A       | 5240    | 10.00                | 10.02                | 10.00               | 10.05               |
| 11A       | 5260    | 10.18                | 10.15                | 10.42               | 10.35               |
| 11A       | 5300    | 10.22                | 10.23                | 10.52               | 10.54               |
| 11A       | 5320    | 9.98                 | 10.10                | 9.95                | 10.23               |
| 11A       | 5500    | 10.95                | 10.98                | <b>12.45</b>        | <b>12.53</b>        |
| 11A       | 5580    | 10.64                | 10.66                | 11.59               | 11.64               |
| 11A       | 5700    | 10.75                | 10.75                | 11.89               | 11.89               |
| 11A       | 5745    | 10.77                | 10.76                | 11.94               | 11.91               |
| 11A       | 5785    | 10.34                | 10.35                | 10.81               | 10.84               |
| 11A       | 5825    | 10.38                | 9.69                 | 10.91               | 9.31                |
| 11N20     | 5180    | 10.81                | 10.85                | 12.05               | 12.16               |
| 11N20     | 5200    | 10.45                | 10.41                | 11.09               | 10.99               |
| 11N20     | 5240    | 10.42                | 10.37                | 11.02               | 10.89               |
| 11N20     | 5260    | 10.24                | 10.24                | 10.57               | 10.57               |
| 11N20     | 5300    | 10.04                | 10.01                | 10.09               | 10.02               |
| 11N20     | 5320    | 10.02                | 9.85                 | 10.05               | 9.66                |
| 11N20     | 5500    | 10.43                | 10.44                | 11.04               | 11.07               |
| 11N20     | 5580    | 10.77                | 10.75                | 11.94               | 11.89               |
| 11N20     | 5700    | 10.50                | 10.53                | 11.22               | 11.30               |
| 11N20     | 5745    | 10.16                | 10.15                | 10.38               | 10.35               |
| 11N20     | 5785    | 10.49                | 10.48                | 11.19               | 11.17               |
| 11N20     | 5825    | 10.58                | 10.57                | 11.43               | 11.40               |



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中国·上海·松江区金都西路588号 邮编: 201612

t(86-21) 61915666 f(86-21) 61915678 www.sgs.com.cn  
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## 5.2 MPE Calculation

According to the formula  $S=P/4\pi R^2$ , we can calculate S which is MPE.

Note:

- 1) P (mW)
- 2) R = distance to the center of radiation of antenna (in meter) = 20cm
- 3) MPE limit = 1mW/cm<sup>2</sup>

For FCC:

For 2.4G WiFi - Antenna1:

| The max. antenna gain is   |                        | 1.58                     | dBi                                 |                             |        |
|----------------------------|------------------------|--------------------------|-------------------------------------|-----------------------------|--------|
| Max. Conducted Power P(mW) | Gain in Linear Scale G | Operation Distance R(cm) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | Result |
| 40.18                      | 1.439                  | 20                       | 0.01150                             | 1                           | Pass   |

For 2.4G WiFi - Antenna2:

| The max. antenna gain is   |                        | 3.42                     | dBi                                 |                             |        |
|----------------------------|------------------------|--------------------------|-------------------------------------|-----------------------------|--------|
| Max. Conducted Power P(mW) | Gain in Linear Scale G | Operation Distance R(cm) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | Result |
| 38.19                      | 2.198                  | 20                       | 0.01670                             | 1                           | Pass   |

For 5G WiFi - Antenna1:

| The max. antenna gain is   |                        | 2.99                     | dBi                                 |                             |        |
|----------------------------|------------------------|--------------------------|-------------------------------------|-----------------------------|--------|
| Max. Conducted Power P(mW) | Gain in Linear Scale G | Operation Distance R(cm) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | Result |
| 12.45                      | 1.991                  | 20                       | 0.00493                             | 1                           | Pass   |

For 5G WiFi - Antenna2:

| The max. antenna gain is   |                        | 2.83                     | dBi                                 |                             |        |
|----------------------------|------------------------|--------------------------|-------------------------------------|-----------------------------|--------|
| Max. Conducted Power P(mW) | Gain in Linear Scale G | Operation Distance R(cm) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | Result |
| 12.53                      | 1.919                  | 20                       | 0.00478                             | 1                           | Pass   |

The 2.4GHz WiFi and 5GHz WiFi can transmit simultaneously, but the maximum rate of MPE is  $0.01670/1+0.00493/1=0.02163\leq 1$ . According to the KDB447498 section 7.2 determine the device is exclusion from SAR test



For IC:

For 2.4GHz WiFi SISO mode:

Antenna 1:E.I.R.P.=  $P \cdot G = 0.04018 \times 1.439 = 0.058W < 2.68W$

Antenna 2:E.I.R.P.=  $P \cdot G = 0.03819 \times 2.198 = 0.084W < 2.68W$

For 5GHz WiFi SISO mode:

Antenna 1:E.I.R.P.=  $P \cdot G = 0.01245 \times 1.991 = 0.025W < 4.53W$

Antenna 2:E.I.R.P.=  $P \cdot G = 0.01253 \times 1.919 = 0.024W < 4.53W$

The 2.4GHz WiFi and 5GHz WiFi can transmit simultaneously, but the maximum rate of MPE is  $0.084/2.68 + 0.025/4.53 = 0.0372 \leq 1$ . So the device is exclusion from SAR test.

**--End of the Report--**

