

| Report No.:<br>File reference No.: | TW2203113-01E<br>2022-03-30  |
|------------------------------------|--|
| Applicant:                         | Eastern Times Technology Co.,Ltd   |
| Product:                           | WIRELESS KEYBOARD  |
| Model No.:                         | PR335, PC335A, JS335, 335, I-61, ET-8547   |
| Trademark:                         | N/A  |
| Test Standards:                    | FCC Part 15.249  |
| Test result:                       | It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility |
| Approved By                        |  |
| Terry Tong                         |  |
| Terry Tang                         | -  |
| Manager                            |  |
| Dated:                             | March 30, 2022   |

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

# SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com





### **Special Statement**:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

### CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

### FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

### Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

### A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



Test Report Conclusion Content

| 1.0  |                                    |    |
|------|------------------------------------|----|
| 1.0  | General Details                    | 4  |
| 1.1  | Test Lab Details                   | 4  |
| 1.2  | Applicant Details                  | 4  |
| 1.3  | Description of EUT                 | 4  |
| 1.4  | Submitted Sample                   | 4  |
| 1.5  | Test Duration                      | 5  |
| 1.6  | Test Uncertainty                   |    |
| 1.7  | Test By                            |    |
| 2.0  | List of Measurement Equipment      | 6  |
| 3.0  | Technical Details                  | 7  |
| 3.1  | Summary of Test Results            | 7  |
| 3.2  | Test Standards                     | 7  |
| 4.0  | EUT Modification                   | 7  |
| 5.0  | Power Line Conducted Emission Test | 8  |
| 5.1  | Schematics of the Test             | 8  |
| 5.2  | Test Method and Test Procedure     | 8  |
| 5.3  | Configuration of the EUT           | 8  |
| 5.4  | EUT Operating Condition            | 9  |
| 5.5  | Conducted Emission Limit           | 9  |
| 5.6  | Test Result                        | 9  |
| 6.0  | Radiated Emission test             | 12 |
| 6.1  | Test Method and Test Procedure     | 12 |
| 6.2  | Configuration of the EUT           | 13 |
| 6.3  | EUT Operation Condition            | 13 |
| 6.4  | Radiated Emission Limit            | 13 |
| 6.5  | Test Result                        | 15 |
| 7.0  | Band Edge                          | 23 |
| 7.1  | Test Method and Test Procedure     | 23 |
| 7.2  | Radiated Test Setup                | 23 |
| 7.3  | Configuration of the EUT           | 23 |
| 7.4  | EUT Operating Condition            | 23 |
| 7.5  | Band Edge Limit                    | 23 |
| 7.6  | Band Edge Test Result              | 24 |
| 8.0  | Antenna Requirement                | 28 |
| 9.0  | 20dB bandwidth measurement         | 29 |
| 10.0 | FCC ID Label                       | 32 |
| 11.0 | Photo of Test Setup and EUT View   | 33 |

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into an will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



#### 1.0 General Details

1.1 Test Lab Details

Name :SHENZHEN TIMEWAY TESTING LABORATORIES.Address:Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le<br/>Village, Nanshan District, Shenzhen, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistration Number: 744189For 3m Anechoic Chamber

#### 1.2 Applicant Details

Applicant:Eastern Times Technology Co.,LtdAddress:Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,<br/>Guangdong, China.Telephone:--Fax:--

1.3 Description of EUT

| Product:                    | WIRELESS KEYBOARD   |
|-----------------------------|---|
| Manufacturer:               | Eastern Times Technology Co.,Ltd  |
| Address:                    | Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,    |
|                             | Dongguan City, Guangdong, China.  |
| Trademark:                  | N/A   |
| Model Number:               | PR335   |
| Additional Model Name       | PC335A, JS335, 335, I-61, ET-8547                                       |
| Rating:                     | DC5.0V, 500mA or DC3.7V, 220mA  |
| Battery                     | DC3.8V, 1600mAh Li-ion battery  |
| Modulation Type:            | GFSK  |
| <b>Operation Frequency:</b> | 2403-2480MHz  |
| Channel Number:             | 16  |
| Channel List (Unit: MHz):   | 2403, 2424, 2441, 2461, 2414, 2435, 2450, 2470, 2409, 2429, 2455, 2475, |
|                             | 2419, 2445, 2465, 2480  |
| Serial No.:                 | T-TGK317RGB-BR211000001   |
| Antenna Designation         | PCB antenna with gain -1.85dBi Max (Declared by the Manufacturer)       |

#### 1.4 Submitted Sample: 1 Sample

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



1.5 Test Duration 2022-03-07 to 2022-03-30

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Conducted Emissions Uncertainty =3.6dB Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Andy -Xing

The sample tested by

Print Name: Andy Xing

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



| 2.0 Test Equipment |              |                  |              |              |            |
|--------------------|--------------|------------------|--------------|--------------|------------|
| Instrument Type    | Manufacturer | Model            | Serial No.   | Date of Cal. | Due Date   |
| ESPI Test Receiver | R&S          | ESPI 3           | 100379       | 2021-06-18   | 2022-06-17 |
| LISN               | R&S          | EZH3-Z5          | 100294       | 2021-06-18   | 2022-06-17 |
| LISN               | R&S          | EZH3-Z5          | 100253       | 2021-06-18   | 2022-06-17 |
| Impuls-Begrenzer   | R&S          | ESH3-Z2          | 100281       | 2021-06-18   | 2022-06-17 |
| Loop Antenna       | EMCO         | 6507             | 00078608     | 2021-06-18   | 2024-06-17 |
| Spectrum           | R&S          | FSIQ26           | 100292       | 2021-06-18   | 2022-06-17 |
| Horn Antenna       | A-INFO       | LB-180400-KF     | J211060660   | 2021-07-02   | 2024-07-01 |
| Horn Antenna       | R&S          | BBHA 9120D       | 9120D-631    | 2021-07-02   | 2024-07-01 |
| Power meter        | Anritsu      | ML2487A          | 6K00003613   | 2021-06-18   | 2022-06-17 |
| Power sensor       | Anritsu      | MA2491A          | 32263        | 2021-06-18   | 2022-06-17 |
| Bilog Antenna      | Schwarebeck  | VULB9163         | 9163/340     | 2021-07-02   | 2024-07-01 |
| 9*6*6 Anechoic     |              |                  | N/A          | 2021-07-02   | 2022-07-01 |
| EMI Test Receiver  | RS           | ESVB             | 826156/011   | 2021-06-18   | 2022-06-17 |
| EMI Test Receiver  | RS           | ESH3             | 860904/006   | 2021-06-18   | 2022-06-17 |
| Spectrum           | HP/Agilent   | ESA-L1500A       | US37451154   | 2021-06-18   | 2022-06-17 |
| Spectrum           | HP/Agilent   | E4407B           | MY50441392   | 2021-06-18   | 2022-06-17 |
| Spectrum           | RS           | FSP              | 1164.4391.38 | 2022-01-15   | 2023-01-14 |
| RF Cable           | Zhengdi      | ZT26-NJ-NJ-8M/FA |              | 2021-06-18   | 2022-06-17 |
| RF Cable           | Zhengdi      | 7m               |              | 2021-06-18   | 2022-06-17 |
| RF Switch          | EM           | EMSW18           | 060391       | 2021-06-18   | 2022-06-17 |
| Pre-Amplifier      | Schwarebeck  | BBV9743          | #218         | 2021-06-18   | 2022-06-17 |
| Pre-Amplifier      | HP/Agilent   | 8449B            | 3008A00160   | 2021-06-18   | 2022-06-17 |
| LISN               | SCHAFFNER    | NNB42            | 00012        | 2022-01-05   | 2023-01-04 |

#### 2.2 Automation Test Software

For Conducted Emission Test

| Name   | Version           |
|--------|-------------------|
| EZ-EMC | Ver.EMC-CON 3A1.1 |

#### For Radiated Emissions

| Name  | Version |
|---|---------|
| EMI Test Software BL410-EV18.91                 | V18.905 |
| EMI Test Software BL410-EV18.806 High Frequency | V18.06  |

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



#### **3.0** Technical Details

#### 3.1 Summary of test results

| The EUT has been tested according to the following specifications: |                                     |        |          |  |
|--|-------------------------------------|--------|----------|--|
| Standard   | Test Type                           | Result | Notes    |  |
| FCC Part 15, Paragraph 15.203                                      | Antenna<br>Requirement              | Pass   | Complies |  |
| FCC Part 15, Paragraph 15.207                                      | Conducted<br>Emission Test          | Pass   | Complies |  |
| FCC Part 15 Subpart C Paragraph 15.249(a)<br>& 15.249(b) Limit     | Field Strength<br>of<br>Fundamental | Pass   | Complies |  |
| FCC Part 15, Paragraph 15.209 and RSS-210                          | Radiated<br>Emission Test           | Pass   | Complies |  |
| FCC Part 15 Subpart C Paragraph 15.249(d)<br>Limit                 | Band Edge<br>Test                   | Pass   | Complies |  |

#### **3.2** Test Standards

FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.4 :2014 and ANSI C63.10 :2013

#### 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

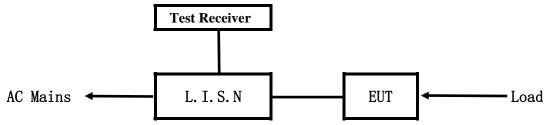
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



### 5. Power Line Conducted Emission Test

5.1 Schematics of the test

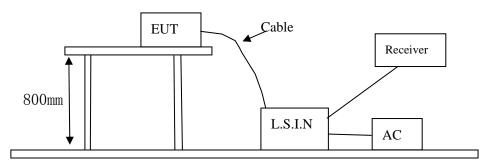


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

Block diagram of Test setup



#### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below. 16 channels are provided to the EUT

| A. | EUT |
|----|-----|
|    | 201 |

| Device   | Manufacturer       | Model                            | FCC ID     |
|----------|--------------------|----------------------------------|------------|
| WIRELESS | Eastern Times      | PR335, PC335A, JS335, 335, I-61, | TUVET-8547 |
| KEYBOARD | Technology Co.,Ltd | ET-8547                          | IUVE1-834/ |

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



#### B. Internal Device

| 2. | 11100111a1 2 0 1 100 |              |       |            |
|----|----------------------|--------------|-------|------------|
|    | Device               | Manufacturer | Model | FCC ID/DOC |
|    | N/A                  |              |       |            |

#### C. Peripherals

| Device       | Manufacturer | Model           | Rating                            |
|--------------|--------------|-----------------|-----------------------------------|
| Power Supply | KEYU         | KA23-0502000DEU | Input: 100-240V~, 50/60Hz, 0.35A; |
|              |              |                 | Output: DC5V, 2A                  |

### 5.4 EUT Operating Condition

- Operating condition is according to ANSI C63.4 -2014
- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

#### 5.5 Power line conducted Emission Limit according to Paragraph 15.207

| Frequency         | Limits (dB µ V)  |               |  | Limits (dB µ V) |  |
|-------------------|------------------|---------------|--|-----------------|--|
| (MHz)             | Quasi-peak Level | Average Level |  |                 |  |
| $0.15~\sim~0.50$  | 66.0~56.0*       | 56.0~46.0*    |  |                 |  |
| $0.50~\sim~5.00$  | 56.0             | 46.0          |  |                 |  |
| $5.00 \sim 30.00$ | 60.0             | 50.0          |  |                 |  |

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

#### 5.6 Test Results:

Pass

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



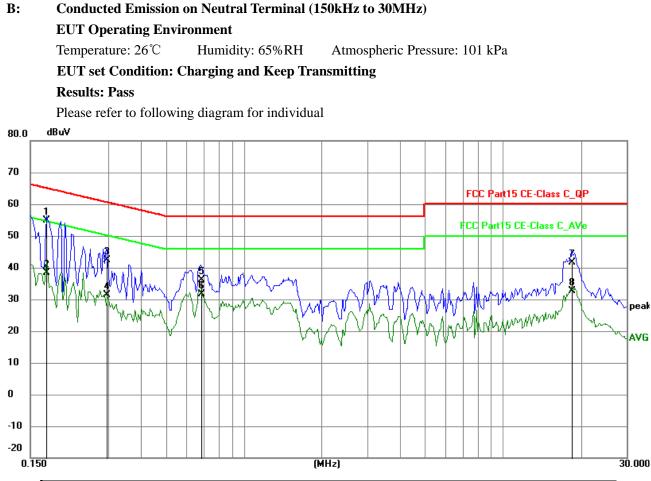
Conducted Emission on Live Terminal (150kHz to 30MHz) A: **EUT Operating Environment** Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa **EUT set Condition: Charging and Keep Transmitting Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class C\_QP 60 FCC Part 5 CE-Class C\_AVe 50 40 30 peak 20 AVG 10 0 -10 -20 0.150 (MHz) 30.000

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector | P/F |
|-----|--------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 1   | 0.1655             | 46.31             | 9.77           | 56.08           | 65.18           | -9.10          | QP       | Р   |
| 2   | 0.1655             | 31.23             | 9.77           | 41.00           | 55.18           | -14.18         | AVG      | Ρ   |
| 3   | 0.2631             | 35.26             | 9.75           | 45.01           | 61.33           | -16.32         | QP       | Р   |
| 4   | 0.2631             | 21.06             | 9.75           | 30.81           | 51.33           | -20.52         | AVG      | Ρ   |
| 5   | 0.6375             | 25.44             | 9.78           | 35.22           | 56.00           | -20.78         | QP       | Ρ   |
| 6   | 0.6375             | 21.64             | 9.78           | 31.42           | 46.00           | -14.58         | AVG      | Ρ   |
| 7   | 4.0764             | 20.31             | 9.89           | 30.20           | 56.00           | -25.80         | QP       | Р   |
| 8   | 4.0764             | 9.16              | 9.89           | 19.05           | 46.00           | -26.95         | AVG      | Р   |
| 9   | 18.3270            | 27.35             | 10.58          | 37.93           | 60.00           | -22.07         | QP       | Р   |
| 10  | 18.3270            | 21.09             | 10.58          | 31.67           | 50.00           | -18.33         | AVG      | Р   |

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.





| No. | Frequency<br>(MHz)     | Reading<br>(dBuV) | Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector | P/F |
|-----|------------------------|-------------------|----------------|-----------------|-----------------|----------------|----------|-----|
| 1   | 0.1726                 | 45.21             | 9.77           | 54.98           | 64.83           | -9.85          | QP       | Ρ   |
| 2   | 0.1726                 | 28.67             | 9.77           | 38.44           | 54.83           | -16.39         | AVG      | Ρ   |
| 3   | 0.2943                 | 32.64             | 9.76           | 42.40           | 60.40           | -18.00         | QP       | Ρ   |
| 4   | 0.2943                 | 21.62             | 9.76           | 31.38           | 50.40           | -19.02         | AVG      | Ρ   |
| 5   | 0.6843                 | 26.39             | 9.78           | 36.17           | 56.00           | -19.83         | QP       | Ρ   |
| 6   | 0.6843                 | 21.85             | 9.78           | 31.63           | 46.00           | -14.37         | AVG      | Р   |
| 7   | 18.4516                | 31.03             | 10.59          | 41.62           | 60.00           | -18.38         | QP       | Ρ   |
| 8   | 18.45 <mark>1</mark> 6 | 22.15             | 10.59          | 32.74           | 50.00           | -17.26         | AVG      | Ρ   |

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

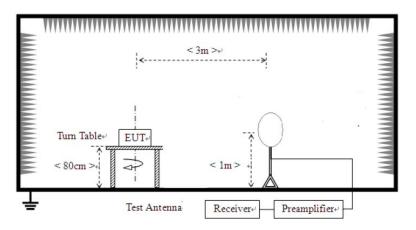


#### 6 Radiated Emission Test

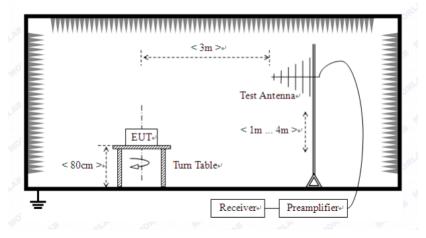
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

#### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz

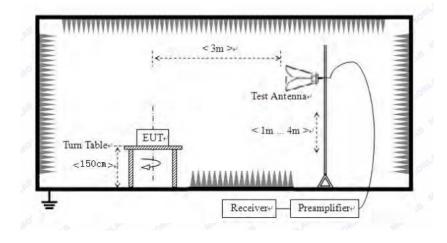


The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

#### A FCC Part 15 Subpart C Paragraph 15.249(a) Limit

| Fundamental Frequency | Field Stre | ength of Fundame | ntal (3m)  | Field St | trength of Harmo | onics (3m) |
|-----------------------|------------|------------------|------------|----------|------------------|------------|
| (MHz)                 | mV/m       | dBu              | V/m        | uV/m     | dBu              | V/m        |
| 2400-2483.5           | 50         | 94 (Average)     | 114 (Peak) | 500      | 54 (Average)     | 74 (Peak)  |

Note: 1. RF Field Strength (dBuV) = 20 log RF Voltage (uV)

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



#### B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

| -                     | -            |                                   |
|-----------------------|--------------|-----------------------------------|
| Frequency Range (MHz) | Distance (m) | Field strength (dB $\mu$ V/m)     |
| 0.009-0.490           | 3            | 20log(2400/F(kHz)) +40log (300/3) |
| 0.490-1.705           | 3            | 20log(24000/F(kHz)) +40log (30/3) |
| 1.705-30              | 3            | 69.5                              |
| 30-80                 | 3            | 40.0                              |
| 88-216                | 3            | 43.5                              |
| 216-960               | 3            | 46.0                              |
| Above 960             | 3            | 54.0                              |

Note: 1. RF Voltage  $(dBuV) = 20 \log RF$  Voltage (uV)

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

6. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.

7. Battery full charged during tests.

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

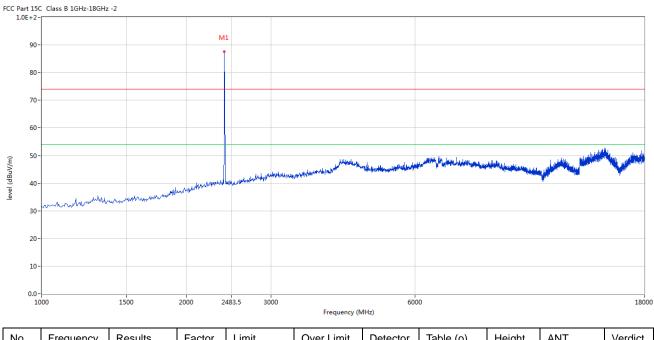


### 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2403MHz

#### Horizontal

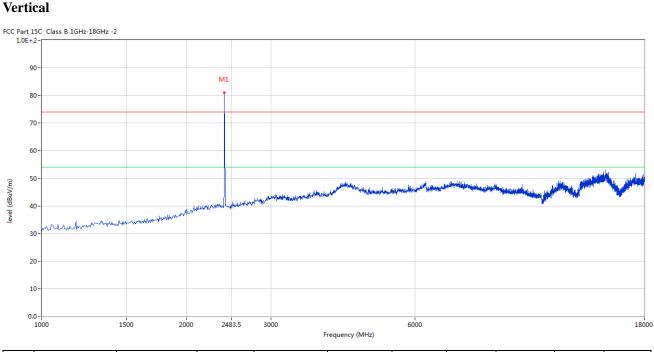


| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table (o) | Height | ANT        | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          |           | (cm)   |            |         |
| 1   | 2402.390  | 87.57    | -3.57  | 114.0    | -26.43     | Peak     | 263.00    | 100    | Horizontal | Pass    |

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.





| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table | Height | ANT      | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-------|--------|----------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (0)   | (cm)   |          |         |
| 1   | 2402.390  | 81.65    | -3.57  | 114.0    | -32.35     | Peak     | 62.00 | 100    | Vertical | Pass    |

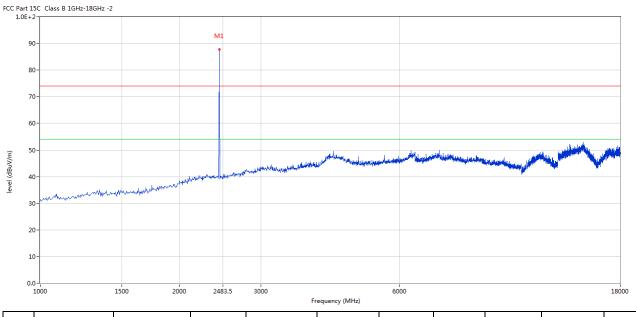
The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



### Please refer to the following test plots for details: Middle Channel-2441MHz

#### Horizontal

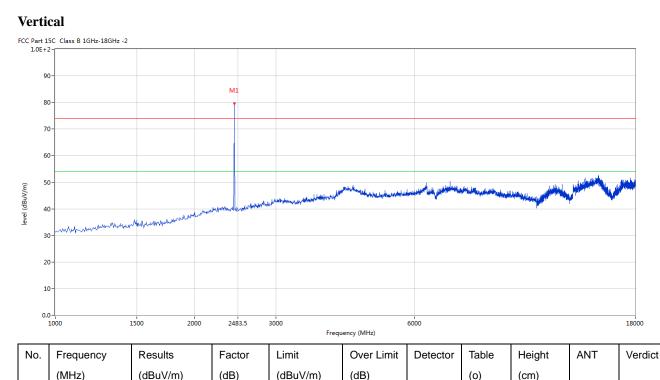


| 1 | No. | Frequency | Results  | Factor | Limit    | Over       | Detector | Table  | Height | ANT        | Verdict |
|---|-----|-----------|----------|--------|----------|------------|----------|--------|--------|------------|---------|
|   |     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | Limit (dB) |          | (o)    | (cm)   |            |         |
|   | 1   | 2441.025  | 87.77    | -3.57  | 114.0    | -26.23     | Peak     | 271.00 | 100    | Horizontal | Pass    |

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.





The report refers only to the sample tested and does not apply to the bulk.

79.57

-3.57

114.0

-34.43

Peak

58.00

100

Vertical

Pass

2441.025

1

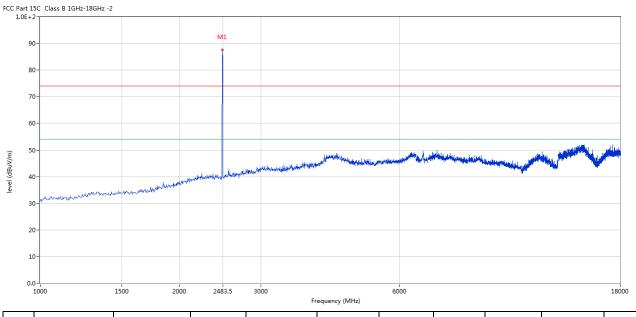
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



### Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal

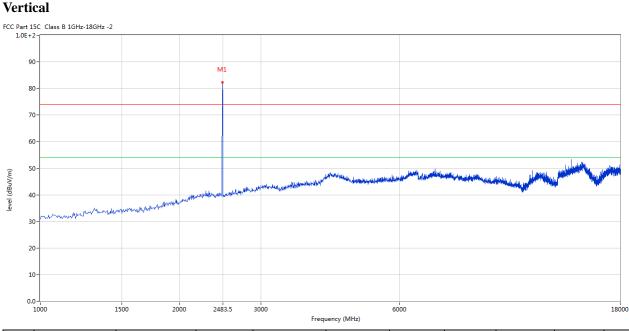


| No. | Frequency | Results  | Factor | Limit    | Over       | Detector | Table  | Height | ANT        | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|------------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | Limit (dB) |          | (o)    | (cm)   |            |         |
| 1   | 2479.390  | 87.89    | -3.57  | 114.0    | -26.11     | Peak     | 269.00 | 100    | Horizontal | Pass    |

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.





| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table  | Height | ANT      | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|----------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (o)    | (cm)   |          |         |
| 1   | 2479.390  | 82.61    | -3.57  | 114.0    | -31.39     | Peak     | 351.00 | 100    | Vertical | Pass    |

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

 $(3) Margin {=} Emission {-} Limits$ 

(4)According to section 15.35(b), the peak limit is 20dB higher than the average limit

(5) For test purpose, keep EUT continuous transmitting

(5)For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.

(6) the measured PK value less than the AV limit.

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



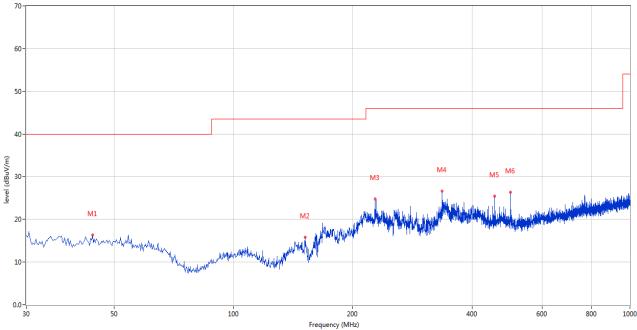
### B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table (o) | Height | ANT        | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|-----------|--------|------------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          |           | (cm)   |            |         |
| 1   | 44.061    | 16.40    | -11.47 | 40.0     | -23.60     | Peak     | 97.00     | 100    | Horizontal | Pass    |
| 2   | 151.462   | 15.82    | -16.95 | 43.5     | -27.68     | Peak     | 25.00     | 100    | Horizontal | Pass    |
| 3   | 227.346   | 24.81    | -12.79 | 46.0     | -21.19     | Peak     | 81.00     | 100    | Horizontal | Pass    |
| 4   | 335.716   | 26.57    | -9.92  | 46.0     | -19.43     | Peak     | 108.00    | 100    | Horizontal | Pass    |
| 5   | 455.966   | 25.39    | -7.95  | 46.0     | -20.61     | Peak     | 163.00    | 100    | Horizontal | Pass    |
| 6   | 500.090   | 26.39    | -6.91  | 46.0     | -19.61     | Peak     | 108.00    | 100    | Horizontal | Pass    |

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



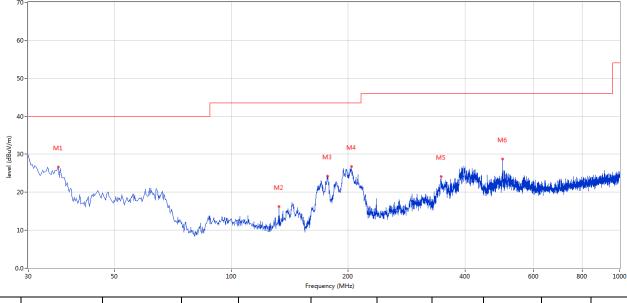
#### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### **Results:** Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table  | Height | ANT      | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|----------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (o)    | (cm)   |          |         |
| 1   | 35.819    | 26.68    | -13.76 | 40.0     | -13.32     | Peak     | 279.00 | 100    | Vertical | Pass    |
| 2   | 132.794   | 16.27    | -17.01 | 43.5     | -27.23     | Peak     | 157.00 | 100    | Vertical | Pass    |
| 3   | 176.676   | 24.25    | -15.71 | 43.5     | -19.25     | Peak     | 135.00 | 100    | Vertical | Pass    |
| 4   | 203.829   | 26.78    | -13.50 | 43.5     | -16.72     | Peak     | 113.00 | 100    | Vertical | Pass    |
| 5   | 346.383   | 24.15    | -9.46  | 46.0     | -21.85     | Peak     | 81.00  | 100    | Vertical | Pass    |
| 6   | 500.090   | 28.73    | -6.91  | 46.0     | -17.27     | Peak     | 20.00  | 100    | Vertical | Pass    |

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

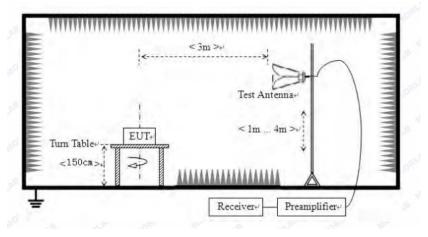


#### 7. Band Edge

#### 7.1 Test Method and test Procedure:

- The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items - Photos of Testing

### 7.3 Configuration of The EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least

50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



#### 7.6 Test Result

|                                 | Product:   | WIR   | RELESS K  | EYBOARD   |  | Polar                            | ity                    |                    | Horizonta  | al              |
|---------------------------------|--|---|---|---|--|----------------------------------|------------------------|--------------------|------------|-----------------|
|                                 | Mode   | K   | eeping Tra  | nsmitting                                       |  | Test Vol                         | ltage                  |                    | DC3.8V     | r               |
| Te                              | mperature  |   | 24 deg  | ;. C,   |  | Humic                            | lity                   |                    | 56% RH     | [               |
| Te                              | est Result:  |   | Pass  | s   |  |                                  |                        |                    |            |                 |
| C Part 1<br>1.0E+               | 15C Class B 1GHz-18GHz<br>2-r                      | -2  |   |   | ·  |                                  |                        |                    |            |                 |
|                                 | 0-   |   |   |   |  |                                  |                        |                    | M1         |                 |
| 9                               | 0-   |   |   |   |  |                                  |                        |                    | /~WM       |                 |
| 8                               | 0-   |   |   |   |  |                                  |                        |                    | / /        |                 |
| 7                               | 0-   |   |   |   |  |                                  |                        | {                  |            |                 |
| 6                               | 0-   |   |   |   |  |                                  |                        | /                  | N          |                 |
|                                 | 0-   |   |   |   |  |                                  |                        | M2                 |            |                 |
|                                 | •  |   |   |   |  | Ma                               |                        | <b>∮</b> •         |            |                 |
|                                 |  |   |   |   |  | IVI3                             | 5                      |                    | N          | ь               |
| 4                               | 0 - June loth a surface ministration of sports     | s.m.s.mesil.wiges.color.linds-issuegitivelenada   | nadardaðin skinn skaðda stjóði þátt hann skan stjór | erstig anterlacium state dingasti miero aant    | والمتعادية والمحادثة والمحادثة والمحادثة       |                                  |                        | A SHIP YOU WILL BE | Υ.         | Wondbyr         |
|                                 | 0<br>  | ensensetterstalledertenskelseterstaljertensk  | nadyat din sheki ngahi jawang di wa                 | undill antichaile an state base of advances     | a an       |                                  |                        | a supervised by    | Ŋ          | Wonaldow        |
|                                 | 0-   | zenzemeniketeneetenikeketeneeteniketeneet   | an a            | relifentidation italitetteritetterine           | a selen tinde pid estre its a selen            |                                  |                        |                    | ¥          | Umalow          |
| 3                               | 0  | ana, nad waarda ka daa ahaa daa daa   | ndigei alte allekis syddigea konstan are            | รารที่ชีวงกังไฟน้ำคารส่งสร้างการส่งสร้างสูงคารส | jaseljala Hodespilde aktora jedova salova      |                                  |                        |                    | ¥          | Monather        |
| 3                               | 0-   | anda anda da ang katang kat | odijet do, bladovih deskonja se                     | รารที่ชีวิสาร์เสียงในการสืบสร้างการสืบสร้างการ  | santine sind a standard be a bear and a        |                                  |                        |                    | ¥          |                 |
| 3<br>2<br>1<br>0.               | 0  | ana, nad waarda ka daa ahaa daa daa   | ofer de skindlinskour og                            |   |  |                                  |                        |                    | Y          | 2410            |
| 3<br>2<br>1<br>0.               | 0  |   |   |   | Frequency (MHz)                                | del site vier destination for An | 64844484<br>           |                    |            | r               |
| 3<br>2<br>1<br>0.               | 0-<br>0-<br>2350<br>Frequency                      | Results   | Factor  | Limit   | Frequency (MHz)                                |                                  | Table                  | Height             | ANT        | 2410<br>Verdict |
| 3<br>2<br>1<br>0.               | 0-<br>0-<br>2350<br>Frequency<br>(MHz)             | Results<br>(dBuV/m)   | Factor<br>(dB)                                      | Limit<br>(dBuV/m)                               | Frequency (MHz)<br>Over Limit<br>(dB)          | Detector                         | Table<br>(o)           | (cm)               |            | Verdict         |
| 3<br>2<br>1<br>0.               | 0-<br>0-<br>2350<br>Frequency                      | Results   | Factor  | Limit   | Frequency (MHz)                                | del site vier destination for An | Table                  | -                  | ANT        | r               |
| 3<br>2<br>1<br>0.<br><b>NO.</b> | 0-<br>0-<br>2350<br>Frequency<br>(MHz)             | Results<br>(dBuV/m)   | Factor<br>(dB)                                      | Limit<br>(dBuV/m)                               | Frequency (MHz)<br>Over Limit<br>(dB)          | Detector                         | Table<br>(o)           | (cm)               |            | Verdict         |
| 3<br>2<br>0.<br>No.             | 0-<br>0-<br>2350<br>Frequency<br>(MHz)<br>2403.537 | Results<br>(dBuV/m)<br>87.42  | Factor<br>(dB)<br>-3.57                             | Limit<br>(dBuV/m)<br>74.0                       | Frequency (MHz)<br>Over Limit<br>(dB)<br>13.42 | Detector<br>Peak                 | Table<br>(o)<br>265.00 | (cm)<br>100        | Horizontal | Verdict<br>N/A  |

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



|  | Product:  | WI   | RELESS K  | EYBOARD  |  | Detecto    | r   | Vertical       |  |   |
|--|---|--|---|--|--|------------|---|----------------|--|---|
|  | Mode  | K  | Leeping Tra   | nsmitting  |  | Test Volta | nge   | DC3.8V         |  |   |
| Te                                     | emperature  |  |   | Humidity   |  | 56% RH     |   |                |  |   |
| Te                                     | est Result:   |  | Pas   |  |  |            |   |                |  |   |
| CC Part 1<br>1.0E+                     | 15C Class B 1GHz-18GHz  | -2   |   |  |  |            |   |                |  |   |
| c                                      | 90-   |  |   |  |  |            |   |                |  |   |
|  |   |  |   |  |  |            |   |                | M1   |   |
| 8                                      | 80-   |  |   |  |  |            |   | (              | with the second se |   |
| 7                                      | 70-   |  |   |  |  |            |   | /              | <u> </u>   |   |
| e                                      | 50 -  |  |   |  |  |            |   | M2             | <u> </u>   |   |
|  |   |  |   |  |  |            |   |                | h  |   |
| - 5                                    | 50 -  |  |   |  |  |            |   | /              | Ň,   |   |
| (m//us                                 | 50-   |  |   |  |  | M3         |   | 1              | N.   |   |
| (W/\ngp) 4                             |   | hdugdersjansfartetessakkisfar Maristanistaksedaestaad die  | hald and the contractions   | nitististastatistatistatistististatistat         | Bunardistikishina ang Matricasist  |            | sufficiency interpretations of the  |                | No.  | than white  |
| evel (dbuV/m                           |   | háng keng kuta kata kata kata kata kata kata kata  | bahagabagaaling (maastaa waki   | าหรู้ให้กรุกแต่ญายังอย่างในเหมายให้สังการ        | (b)menindigibal-anderligibal-anderligibal-anderligibal-anderligibal-anderligibal-anderligibal-anderligibal-and   |            | มสี่มนะครามประการก  |                | 1  | ahun hahike   |
| 4 (dpn/u                               | 10- <mark>upperlanguarianteriktundenteriktunde</mark>               | shaglerying defensional defension defensionen defe   | hologiak ngalino ngalawa buwaki   | างทุ่งสารระบาทรานประสารสารประการสาร              | જીમ્મતન્દ્રાંથી કુર્યક્રમાં નુવ્યું છે.<br>આ ગામ કુર્યક્રમાં નુવ્યું છે. આ ગામ કુર્યક્રમાં નુવ્યું છે. આ ગામ કુર્યક્રમાં નુવ્યું છે. આ ગામ કુર્યક્રમાં નુવ |            | anthine ange a shing of a start of the  |                |  | alun kahin  |
| level (dBuv)<br>2                      | 40 - <mark>Harden and Hiller Angeler (</mark> berd)<br>30 -<br>20 - | الدوراه والمراجع والمحاوي المحاول المراجع والمحاول المراجع المحاول المحاول المحاول المحاول المحاول المحاول الم | hang di na dina na hana hana di   | neficlasauriy.claininalunarichtenny              | Alenan Balan (Martin Balan   |            | ระที่มันเอารุงาสต่างสาร<br>เห   |                |  | ahun köhler   |
| level (dBuv)<br>2                      | 40-<br>   | thadarah data dija Noya kabah maliki   | Norregiski verski po senera konorovski  | งหรุ่นจำนุดเขตสูงแล้วจะไรเห็นระบบร่ายให้เรื่องบร | (દાનત-કોલીસ) અને ન્યુએક વિક્રિયનોલ   |            | sitiliines) iddy, to dy off   |                |  | in the second |
| 4 هدوا (dBuV/m<br>3<br>1<br>0          | 40 - <mark>Harden and Hiller Angeler (</mark> berd)<br>30 -<br>20 - | n haydwr yn y diwlan ddol a blwyn diwdon y wraidd  | hang king king saman banang kanang |  |  |            | settene versketter og versk |                |  | 2410  |
| evel (d8rn/)<br>3<br>2<br>1            | 40  |  |   | Free   | juency (MHz)   |            |   |                |  | 2410  |
| 4 هدوا (dBuV/m<br>3<br>1<br>0          | 40  | Results  | Factor  | Free   | 1uency (MHz)<br>Over Limit   |            | Table   | Height         | ANT  | 2410  |
| 4 (۹۵۳۸/۱۳<br>2 2<br>1 0               | 40  | Results<br>(dBuV/m)  | Factor<br>(dB)  | Free<br>Limit<br>(dBuV/m)                        | <sup>quency (MHz)</sup><br>Over Limit<br>(dB)  | Detector   | Table<br>(o)  | Height<br>(cm) | ANT  | 2410<br>Verdi   |
| 4 (۹۵۳۸/۱۳<br>2 2<br>1 0               | 40  | Results  | Factor  | Free   | 1uency (MHz)<br>Over Limit   |            | Table   | Height         |  | 2410  |
| 4 (dgn//m<br>2<br>1<br>0<br><b>No.</b> | 40  | Results<br>(dBuV/m)  | Factor<br>(dB)  | Free<br>Limit<br>(dBuV/m)                        | <sup>quency (MHz)</sup><br>Over Limit<br>(dB)  | Detector   | Table<br>(o)  | Height<br>(cm) | ANT  | 2410<br>Verdi   |

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



| _   | Product:   |                                      | WIRELES              | SS KEYBOA                 |   | Polarity   | y  | Horizon  |   |                |
|---|--|--------------------------------------|----------------------|---------------------------|---|--|--|--|---|----------------|
|   | Mode   |                                      | Keeping Transmitting |                           |   |  | Test Voltage   |  | DC3.8V  |                |
| Te  | mperature  |                                      | 24                   | 4 deg. C,                 |   |  | Humidity 56%   |  |   |                |
| Те  | est Result:  |                                      | Pass                 |                           |   |  |  |  |   |                |
| CC Part 1<br>1.0E+                            | 15C Class B 1GHz-18GHz   | -2                                   |                      |                           |   |  |  |  |   |                |
| 1.021   | -  |                                      |                      |                           |   |  |  |  |   |                |
| 9   | 90 -   |                                      | an white             | Mh.                       |   |  |  |  |   |                |
| 8   | 30 -   |                                      |                      |                           |   |  |  |  |   |                |
| 7   | 70-  |                                      | <u></u>              | The second                |   |  |  |  |   |                |
| 6   | 50 -   |                                      |                      | 1                         |   |  |  |  |   |                |
|   |  |                                      |                      | N                         | L   |  |  |  |   |                |
|   |  |                                      |                      |                           | n.  |  |  |  |   |                |
| (u//)   | 50 -   | بمريح المريح                         |                      | • •                       | The second se |  |  |  |   |                |
| evel (dBuV/m)                                 | 50 -<br>10 - <mark>Versentlinnste<sup>l</sup>ndstelferd/saternisationer</mark> | nethelites have additioned by an and |                      | • • •                     | MAN Halvendarioweder  | had a far an | hiji of e badjung iften series, starije  | chernesistleschurstrapperche   | ulung Magabilating and an algebra of the registre of  | had set of the |
| level (dBuV/m<br>5                            | 10-  | -alephanese allowed by and           |                      | • "                       | NWWWWWWWWW  | historistan jangtami kistoran dim.               | hjilerheikonjuurikteraaterjad  | cheasanthachurstraaseeche  | น่าระท <sub>า</sub> รปุด จะจะประเทศไขจะเป็นจะเรื่อง   | hipeludurt     |
| level (dBuV/m<br>s                            | 10-<br>  |                                      |                      | • •                       | MM Monoral and and  | historik, jagean historia an am                  | hgi anta kang mangkan pangka   | chresterflandur strangerfla  | ปกระทุรที่ปการการสารไประการสารไประการสารป   |                |
| evel (dBu//m<br>2                             | 10 - <mark> <br/> </mark>  | ndegissbore detraged for             |                      | •                         | NY HIM HIM Contractions of the  | histofika juugkamistika an Ama                   | hgi phekanjan demareka penja   | Unesseekseekseekseekseekse   | Langer |                |
| level (dBu//m<br>3                            | 10 - <mark>Lunantian arfil dagi v Akuba dadi ang</mark><br>10 -                | nakatishan datinga kily na           |                      |                           | NY MANAGAMANA ANA ANA ANA ANA ANA ANA ANA ANA AN  | isidila jugarisina a                             | lige of the low of the | the second s | น่าสราวราวังการเป็น เป็น เป็น เป็น เป็น เป็น เป็น เป็น  |                |
| للسلم<br>(۱۹۹۹) 4<br>3<br>2<br>1<br>0         | 10 - <mark> <br/> </mark>  | ndefisielere det mandele a           |                      | 2483.5                    |   | i i i i i i i i i i i i i i i i i i i            | igentekungen   | ly,negislantur.negisla   | 4.000,014,000,014,000,400,000,000   | 2500           |
| evel (dBu//m<br>3<br>2<br>1                   | 10   |                                      | Easter               | F                         | requency (MHz)  |  |  |  |   | 1              |
| للسلم<br>(۱۹۹۹) 4<br>3<br>2<br>1<br>0         | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -  | Results                              | Factor               | Limit                     | requency (MHz)  | Detector   | Table  | Height   | ANT   | 2500<br>Verdia |
| لیس(ngp) 4<br>2<br>1<br>0.<br>No.             | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -  | Results<br>(dBuV/m)                  | (dB)                 | F<br>Limit<br>(dBuV/m)    | requency (MHz)<br>Over Limit<br>(dB)  | Detector   | Table<br>(o)   | Height<br>(cm)   | ANT   | Verdi          |
| 2<br>1<br>0.<br>No.                           | 10 - Manufacture (Manufacture (MHz)<br>2479.358                                | Results<br>(dBuV/m)<br>87.73         | (dB)<br>-3.57        | Limit<br>(dBuV/m)<br>74.0 | Over Limit<br>(dB)<br>13.73   | Detector<br>Peak                                 | Table<br>(o)<br>271.00   | Height<br>(cm)<br>100  | ANT<br>Horizontal   | Verdi<br>N/A   |
| س///ngp) 4<br>3<br>2<br>1<br>0.<br><b>No.</b> | 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -  | Results<br>(dBuV/m)                  | (dB)                 | F<br>Limit<br>(dBuV/m)    | requency (MHz)<br>Over Limit<br>(dB)  | Detector   | Table<br>(o)   | Height<br>(cm)   | ANT   | Verdi          |

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



| _   | Product:  |  | WIRELESS KEYBOARD |                   |  |                                       |   |   | Vertica                             | al             |
|---|---|--|-------------------|-------------------|--|---------------------------------------|---|---|-------------------------------------|----------------|
|   | Mode  |  | Keepir            | ng Transmitt      | itting Test Voltage  |                                       |   |   | DC3.8V                              |                |
| Te  | emperature  |  | 2                 | 24 deg. C,        |  |                                       | Humidity 569                                |   |                                     | Н              |
| Τe  | est Result:   |  |                   | Pass              |  |                                       |   |   |                                     |                |
| CC Part 1<br>1.0E+  | 15C Class B 1GHz-18GHz  | -2   |                   |                   |  |                                       |   |   |                                     |                |
|   |   |  |                   |                   |  |                                       |   |   |                                     |                |
| 9   | 90 -  |  |                   | -                 |  |                                       |   |   |                                     |                |
| 8   | 30 -  |  | ( Trenting        | Printing .        |  |                                       |   |   |                                     |                |
| 7   | 70-   |  | 1                 |                   |  |                                       |   |   |                                     |                |
| 6   | 50 -  |  | (                 |                   |  |                                       |   |   |                                     |                |
|   |   | <u> </u>   |                   | N. I.             |  |                                       |   |   |                                     |                |
| - 5   | 50 -  |  |                   | X                 |  |                                       |   |   |                                     |                |
| 5   | 50-   |  |                   | M2                | No. And  |                                       |   |   |                                     |                |
| (iiii/annn) 4   | 50 -<br>10  |  |                   | M2<br>•           | Martin and and the second s  | teresta esperio lacontecto            | hispaddin ang a garang tido i aga           | lizitlenening, grödengetikstande  | yeathy wiinitian by winds           | luljänt varte) |
| 4   | 10-   | and the second second  |                   | M2                | Mar and a strain the state of the state of the   | ter viteta sefeksise han sisis him be | hayaddan awy a gar ang dd aw a gol          | kçistanın çoşanşı dörrende  | nearther interestions of the second | halfater marki |
| 4<br>3  | 10-   | -  |                   | M2                | No for the stand of the stand o | hassin of his lastic lastic           | hayaktu anı i yarat yalan seyi              | hejiktuurine, osan yoo kayada tundu   | yes the interpretation              | liljinovari)   |
| 3<br>2  | 10 - <mark>Annanyalas navasalsi kisanananan</mark><br>30 -  | needen waarden oor waarden |                   | M2                | han an a  | hanstanoginiselmantiationalus         | lingdournessen of the set                   | bezistenen er och er |                                     | lulybressant)  |
| 3<br>2<br>1   | 10 - Jananuka minuska kilo sa meter<br>30 -<br>20 -   |  |                   | M2                | Neger and a stand of the stand  | hastin og karden sok karden           | tayaka ana ang kang kang kang kang kang kan | hitania, yangatasida  | - yearthe visit etter ar light of   | lujerovel      |
| 2<br>0.   | 10 - Jongynia Arywidd yw yr ywddia a gwlanwydd yw yr ywdyn yw yr yw yr yw |  |                   | M2                | Trequency (MHz)  | hassen og have hassel før indra       | tigelineers area films of                   | hythiania, ysongdobhado   |                                     | 44mmm          |
| 2<br>1<br>0.  | 10 - <mark></mark>  | Results  | Factor            |                   |  | Detector                              | Table                                       | hulture, competitude  | ANT                                 | 2500           |
| 2<br>1<br>0.  | 10 -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-   |  | Factor<br>(dB)    | 1                 | Frequency (MHz)  |                                       |   |   |                                     | 2500           |
| 4<br>3<br>2<br>1<br>0.<br>No.   | 10  | Results  |                   | Limit             | Frequency (MHz)  |                                       | Table                                       | Height  |                                     | 2500           |
| للارمم<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراجع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المراحع<br>المم<br>المم<br>المم<br>المم<br>المم<br>المم<br>المم<br>الم | 10  | Results<br>(dBuV/m)  | (dB)              | Limit<br>(dBuV/m) | Frequency (MHz)<br>Over Limit<br>(dB)  | Detector                              | Table<br>(o)                                | Height<br>(cm)  | ANT                                 | 2500<br>Verdic |

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



#### 8.0 Antenna Requirement

#### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna. The antenna gain is -1.85dBi Max. It fulfills the requirement of this section. Test Result: Pass

The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



| Product:           | WIREL                | ESS KEYI | BOARD        |           | Test Mode:           |                         | Keep transmitting |                     |                    |      |
|--------------------|----------------------|----------|--------------|-----------|----------------------|-------------------------|-------------------|---------------------|--------------------|------|
| Mode               | Keeping Transmitting |          |              |           |                      | t Voltage               |                   |                     |                    |      |
| Temperature        | 24 deg. C,<br>Pass   |          |              |           | Humidity<br>Detector |                         |                   |                     |                    |      |
| Test Result:       |                      |          |              |           |                      |                         |                   | P                   | K                  |      |
| 20dB Bandwidth     | 2.495MHz             |          |              |           |                      |                         |                   |                     | _                  |      |
| <u>،</u>           | Marker 1 [T1 ndB]    |          |              | RI        | зw                   | 100 k                   | Hz R              | I<br>Iz RFAtt 20 dE |                    |      |
| Ref Lvl            | ndB                  | 20.      | .00 dB       | VI        | ЗW                   | 300 k                   | Hz                |                     |                    |      |
| 10 dBm             | BW                   | 2.494989 | 98 MHz       | SI        | νT                   | 5 m                     | s U               | nit                 | dBn                | n    |
| 10                 |                      |          |              |           |                      | ▼1                      | [T1]              | - 3                 | 3.09 dBm           |      |
|                    |                      |          |              |           |                      |                         |                   | 2.40238             | 377 GHz            | A    |
| 0                  |                      | 1        |              | _         |                      | ndB                     | 3                 | 20                  | .00 dB             |      |
|                    |                      |          | $\sim$       | $\square$ | /                    | $\gamma = \frac{BW}{T}$ |                   | 2.49498             | 998 MHz            |      |
| -10                |                      |          | / / /        |           | 4                    |                         | [T1]              | -23                 |                    |      |
|                    |                      | $\sim$   | $\checkmark$ |           |                      |                         | [T1]              | 2.40167             | 234 GHz<br>.18 dBm |      |
| -20                |                      | [        |              |           |                      | ± 2                     | $\frac{111}{12}$  | 2.40416             | 733  GHz           |      |
| IMAX               |                      |          |              |           |                      |                         | X                 |                     |                    | 1112 |
| -30                |                      |          |              |           |                      |                         |                   | how                 |                    |      |
| -40 mm             |                      |          |              |           |                      |                         |                   |                     | m                  |      |
| -50                |                      |          |              |           |                      |                         |                   |                     |                    |      |
| -60                |                      |          |              |           |                      |                         |                   |                     |                    |      |
| -70                |                      |          |              |           |                      |                         |                   |                     |                    |      |
| -80                |                      |          |              |           |                      |                         |                   |                     |                    |      |
|                    |                      |          |              |           |                      |                         |                   |                     |                    |      |
| -90 Center 2.403 ( | GHz                  |          | 500          | kHz/      |                      |                         |                   | Spa                 | an 5 MHz           | l    |
| ate: 28.MAR.       |                      | 9:51:12  |              |           |                      |                         |                   |                     |                    |      |

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



| Product:      | WIRELE                         | SS KEYB    | OARD    | Г            | Test Mode:           |          | Keep transmitting |  |            |
|---------------|--------------------------------|------------|---------|--------------|----------------------|----------|-------------------|--|------------|
| Mode          | Keepin                         | ıg Transmi | Т       | Test Voltage |                      | DC3.8V   |                   |  |            |
| Temperature   | 24 deg. C,<br>Pass<br>2.285MHz |            |         |              | Humidity<br>Detector |          | 56% RH            |  |            |
| Test Result:  |                                |            |         |              |                      |          | l                 | PK   |            |
| OdB Bandwidth |                                |            |         |              |                      |          |                   |  |            |
| <b>K</b>      | Marker 1 [T1 ndB]              |            |         | RBW          | 100 kH:              | z RF     | Att               | 20 dB  |            |
| Ref Lvl       | ndB                            | 20.        | 00 dB   | VBW          | 300 kH:              | Z        |                   |  |            |
| 10 dBm        | BW                             | 2.284569   | 914 MHz | SWT          | 5 ms                 | Un       | it                | dBm  | L          |
| 10            |                                |            |         |              | ▼1 [                 | T1]      | -2                | .78 dBm  | A          |
|               |                                |            |         |              |                      |          | 2.44102           | 505 GHz  |            |
| 0             |                                | $\land$    | ~       | Ň            | ndB                  |          | 20                | .00 dB   |            |
|               |                                |            |         | $\gamma$     |                      | [T1]     | 2.28456           | 914 MHz<br>.80 dBm   |            |
| -10           |                                |            |         |              |                      |          | 2.43987           | 275 GHz  |            |
|               | _                              | $\sim$     |         |              |                      | [T1]     | -22               | .46 dBm  |            |
| -20           |                                |            |         |              |                      | <u>7</u> | 2.44215           | 731 GHz  | <b>1MA</b> |
| -30           | <i></i>                        |            |         |              |                      | h.       |                   |  | IMA        |
| -30           | and                            |            |         |              |                      | الس      | h                 | حكم  |            |
| -40           |                                |            |         |              |                      |          |                   | Jury and the second sec |            |
| -50           |                                |            |         |              |                      |          |                   |  |            |
| -60           |                                |            |         |              |                      |          |                   |  |            |
|               |                                |            |         |              |                      |          |                   |  |            |
| -70           |                                |            |         |              |                      |          |                   |  |            |
| -80           |                                |            |         |              |                      |          |                   |  |            |
| -90           |                                |            |         |              |                      |          |                   |  |            |
| Center 2.441  | GHz                            |            | 500     | kHz/         |                      |          | Spa               | an 5 MHz   |            |

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



| Product:         | WIRELE                | SS KEYBOARD    | ]        | Test Mode:  | Keep transmitting |                      |  |
|------------------|-----------------------|----------------|----------|-------------|-------------------|----------------------|--|
| Mode             | Keepin                | g Transmitting | Т        | est Voltage | DC3.8V<br>56% RH  |                      |  |
| Temperature      | 2                     | 4 deg. C,      |          | Humidity    |                   |                      |  |
| Test Result:     |                       | Pass           |          | Detector    |                   | РК                   |  |
| OdB Bandwidth    | 2.                    | 275MHz         |          |             |                   |                      |  |
|                  | Marker                | RBW            | 100 kHz  | RF Att      | 20 dB             |                      |  |
| Ref Lvl          | ndB                   | 20.00 dB       | VBW      | 300 kHz     | :                 |                      |  |
| 10 dBm           | BW 2                  | 2.27454910 MHz | SWT      | 5 ms        | Unit              | dBm                  |  |
| 10               |                       |                |          | ▼1 [:       | r1] –             | 2.60 dBm             |  |
|                  |                       | 7              |          |             | 2.4793            |                      |  |
| 0                |                       | × /            |          | ndB         | 2                 | 0.00 dB              |  |
|                  |                       |                |          |             | 2.2745<br>[T1] -2 | 4910 MHz<br>2.55 dBm |  |
| -10              |                       |                |          |             | 2.4788            | 2.55 (12)            |  |
|                  |                       |                |          | VT          | [T1] -2           | 3.86 dBm             |  |
| -20              | 3                     |                |          |             | 2 2.4811          | 4729 GHz             |  |
| 1MAX             |                       |                |          |             | 7                 | 1MA                  |  |
| -30              | www.                  |                |          |             | Lowin             | my l                 |  |
| -40              |                       |                |          |             |                   | W.                   |  |
| White            |                       |                |          |             |                   | w.l.                 |  |
| -50              |                       |                |          |             |                   |                      |  |
|                  |                       |                |          |             |                   |                      |  |
| -60              |                       |                |          |             |                   |                      |  |
|                  |                       |                |          |             |                   |                      |  |
| -70              |                       |                |          |             |                   |                      |  |
|                  |                       |                |          |             |                   |                      |  |
| - 80             |                       |                |          |             |                   |                      |  |
|                  |                       |                |          |             |                   |                      |  |
| -90<br>Center 2. | 48 CHZ                | E 0.0          | kHz/     |             | 0                 | an 5 MHz             |  |
|                  | 40 GH2<br>MAR.2022 19 |                | 171177 / |             | 546               |                      |  |

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



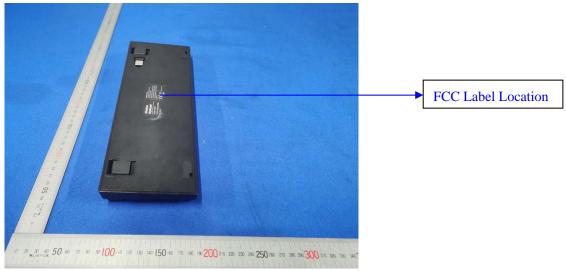
#### 10.0 FCC ID Label

#### FCC ID: TUVET-8547

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### Mark Location:



The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



#### 11.0 Photo of testing

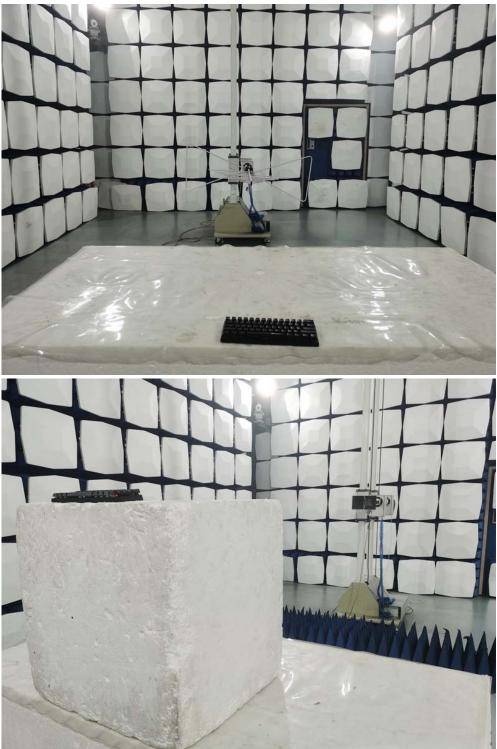
11.1 Conducted test View--



The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



Radiated emission test view



The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



#### 11.2 Photographs – EUT



The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



Outside View



The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



Outside View



The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.



Inside view



The report refers only to the sample tested and does not apply to the bulk.

This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to





--End of the report--

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to