

| Report No.:     | TW2211238-02E   |  |  |
|-----------------|---|--|--|
| Applicant:      | Eastern Times Technology Co.,Ltd  |  |  |
| Product:        | 94 KEY MECHANICAL GAMING KEYBOARD   |  |  |
| Model No.:      | K643WGC-RGB-PRO, ET-8886, ET-8953   |  |  |
| Trademark:      | REDRAGON  |  |  |
| 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 lan

Terry Tang

Manager

Dated:

December 15, 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 17025:2017 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

# CAB identifier: CN0033

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## 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 Village, Nanshan District, Shenzhen, China

 Telephone:
 (755) 83448688

 Fax:
 (755) 83442996

 Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189

For 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:              | 94 KEY MECHANICAL GAMING KEYBOARD                                      |
|-----------------------|--|
| Manufacturer:         | Eastern Times Technology Co.,Ltd                                       |
| Address:              | Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,   |
|                       | Dongguan City, Guangdong, China.                                       |
| Trademark:            | REDRAGON   |
| Additional Trademark: | N/A  |
| Model Number:         | K643WGC-RGB-PRO  |
| Additional Model Name | ET-8886, ET-8953   |
| Hardware Version:     | 8886-A V1  |
| Software Version:     | 5AF3   |
| Serial No.:           | RDK643WGC-RGB-PRO22111501003   |
| Rating:               | DC5V, 720mA or DC3.7V, 290mA   |
| Battery:              | DC3.7V, 1600mAh Li-ion battery   |
| Modulation Type:      | GFSK   |
| Operation Frequency:  | 2402-2480MHz   |
| Channel Separate:     | 1MHz   |
| Channel Number:       | 79   |
| Antenna Designation   | PCB antenna with gain 2.34dBi Max (Get from the antenna specification) |

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# 1.4 Submitted Sample: 2 Samples

- 1.5 Test Duration 2022-11-23 to 2022-12-15
- 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 - King

The sample tested by

Print Name: Terry Tang

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| 2.0 Test Equipment |              |                  |              |              |            |
|--------------------|--------------|------------------|--------------|--------------|------------|
| Instrument Type    | Manufacturer | Model            | Serial No.   | Date of Cal. | Due Date   |
| ESPI Test Receiver | R&S          | ESPI 3           | 100379       | 2022-07-15   | 2023-07-14 |
| LISN               | R&S          | EZH3-Z5          | 100294       | 2022-07-18   | 2023-07-17 |
| LISN               | R&S          | EZH3-Z5          | 100253       | 2022-07-18   | 2023-07-17 |
| Impuls-Begrenzer   | R&S          | ESH3-Z2          | 100281       | 2022-07-18   | 2023-07-17 |
| Loop Antenna       | EMCO         | 6507             | 00078608     | 2022-07-18   | 2025-07-17 |
| Spectrum           | R&S          | FSIQ26           | 100292       | 2022-07-15   | 2023-07-14 |
| Horn Antenna       | A-INFO       | LB-180400-KF     | J211060660   | 2022-07-18   | 2025-07-17 |
| Horn Antenna       | R&S          | BBHA 9120D       | 9120D-631    | 2022-07-18   | 2024-07-17 |
| Power meter        | Anritsu      | ML2487A          | 6K00003613   | 2022-07-18   | 2023-07-17 |
| Power sensor       | Anritsu      | MA2491A          | 32263        | 2022-07-18   | 2023-07-17 |
| Bilog Antenna      | Schwarebeck  | VULB9163         | 9163/340     | 2022-07-18   | 2025-07-17 |
| 9*6*6 Anechoic     |              |                  | N/A          | 2022-07-26   | 2025-07-25 |
| EMI Test Receiver  | RS           | ESVB             | 826156/011   | 2022-07-15   | 2023-07-14 |
| EMI Test Receiver  | RS           | ESCS 30          | 834115/006   | 2022-07-15   | 2023-07-14 |
| Spectrum           | HP/Agilent   | E4407B           | MY50441392   | 2022-07-15   | 2023-07-14 |
| Spectrum           | RS           | FSP              | 1164.4391.38 | 2022-07-15   | 2023-07-14 |
| RF Cable           | Zhengdi      | ZT26-NJ-NJ-8M/FA |              | 2022-07-15   | 2023-07-14 |
| RF Cable           | Zhengdi      | 7m               |              | 2022-07-15   | 2023-07-14 |
| Pre-Amplifier      | Schwarebeck  | BBV9743          | #218         | 2022-07-15   | 2023-07-14 |
| Pre-Amplifier      | HP/Agilent   | 8449B            | 3008A00160   | 2022-07-15   | 2023-07-14 |
| LISN               | SCHAFFNER    | NNB42            | 00012        | 2022-08-18   | 2023-07-17 |
| ESPI Test Receiver | R&S          | ESPI 3           | 100379       | 2022-07-15   | 2023-07-14 |
| LISN               | R&S          | EZH3-Z5          | 100294       | 2022-07-18   | 2023-07-17 |

### 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  |

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## **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                                      | 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

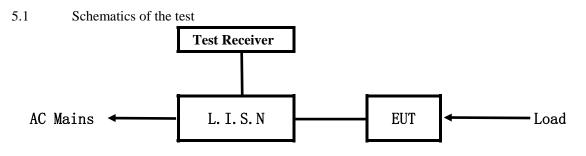
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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# 5. Power Line Conducted Emission Test



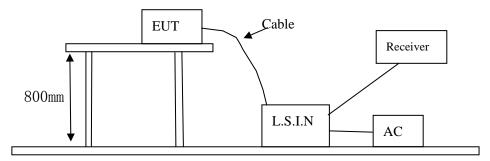
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



## 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below. 79 channels are provided to the EUT

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

| Device            | Manufacturer       | Model            | FCC ID          |
|-------------------|--------------------|------------------|-----------------|
| 94 KEY MECHANICAL | Eastern Times      | K643WGC-RGB-PRO, | TUVET-8886A     |
| GAMING KEYBOARD   | Technology Co.,Ltd | ET-8886, ET-8953 | 1 U V E 1-8880A |

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B. Internal Device

| 2. | 1110011141 2001100 |              |       |            |
|----|--------------------|--------------|-------|------------|
|    | 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 C63.10-2013

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)  |               |  |  |
|-------------------|------------------|---------------|--|--|
| (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

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| <b>A:</b>  |           | ucted Emission                         |                   | ninal (150kl                           | Hz to 30MH      | <b>z</b> )      |  |              |       |     |
|------------|-----------|--|-------------------|--|-----------------|-----------------|--|--------------|-------|-----|
|            |           | <b>Operating Envi</b><br>erature: 25°C | Humidity:         | 65%RH                                  | Atmospheri      | c Pressure:     | 101 kPa  |              |       |     |
|            | -         | set Condition: C                       | -                 |  | -               |                 | loi ki u   |              |       |     |
|            |           | ts: Pass                               |                   |  |                 |                 |  |              |       |     |
|            | Please    | refer to followir                      | ig diagram fo     | or individual                          |                 |                 |  |              |       |     |
| 80.0<br>Г  | dBu¥      |  |                   |  |                 |                 |  |              |       |     |
| 70         |           |  |                   |  |                 |                 |  |              |       |     |
| 60         |           |  |                   |  |                 | F               | CC Part15 Cl   | E-Class C_QP | ,     |     |
|            |           |  |                   |  |                 | FC              | C Part15 CE  | Class C_AVe  |       |     |
| 50         | Ana<br>Ma |  |                   |  |                 |                 |  |              |       |     |
| 40         | (/¥,      | The www.                               |                   |  |                 |                 |  | •            | _     |     |
| 30         |           |  | IMM.              | MMM                                    | MAMPAN          |                 | al anna  | W Smary      | 11/   |     |
|            | TV WY     |  | VrVNV             | AN AN Y                                |                 | MM M            | Manada, A.   | Mar          | WM42  | eak |
| 20         |           |  |                   | $\neg \forall \forall \forall \forall$ | VVVVA           | MAMAA           | n na hair an h | W   _        | - Xtm | VG  |
| 10         |           |  |                   |  |                 | - Var           |  |              |       |     |
| 0          |           |  |                   |  |                 |                 |  |              |       |     |
| Ŭ          |           |  |                   |  |                 |                 |  |              |       |     |
| -10        |           |  |                   |  |                 |                 |  |              |       |     |
| -20<br>0.1 | 50        |  |                   | (MI                                    | Hz)             |                 |  |              | 30.0  | 000 |
|            | No.       | Frequency<br>(MHz)                     | Reading<br>(dBuV) | Factor<br>(dB)                         | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB)   | Detector     | P/F   |     |
|            | 1         | 0.1578                                 | 36.29             | 9.78                                   | 46.07           | 65.58           | -19.51   | QP           | Р     |     |
|            | 2         | 0.1578                                 | 20.20             | 9.78                                   | 29.98           | 55.58           | -25.60   | AVG          | P     |     |
|            | 3         | 0.2124                                 | 32.00             | 9.75                                   | 41.75           | 63.11           | -21.36   | QP           | Р     |     |
|            | 4         | 0.2124                                 | 18.40             | 9.75                                   | 28.15           | 53.11           | -24.96   | AVG          | Р     |     |
|            | 5         | 0.4659                                 | 35.06             | 9.77                                   | 44.83           | 56.59           | -11.76   | QP           | Р     |     |
|            | 6         | 0.4659                                 | 26.24             | 9.77                                   | 36.01           | 46.59           | -10.58   | AVG          | Р     |     |
|            | 7         | 0.8052                                 | 26.53             | 9.78                                   | 36.31           | 56.00           | -19.69   | QP           | Р     |     |
|            | 8         | 0.8052                                 | 16.69             | 9.78                                   | 26.47           | 46.00           | -19.53   | AVG          | Р     |     |
|            | 9         | 14.9340                                | 22.71             | 10.38                                  | 33.09           | 60.00           | -26.91   | QP           | Р     |     |
|            | 10        | 14.9340                                | 16.74             | 10.38                                  | 27.12           | 50.00           | -22.88   | AVG          | Р     |     |
|            | 11        | 25.5029                                | 16.92             | 11.02                                  | 27.94           | 60.00           | -32.06   | QP           | Р     |     |
|            | 12        | 25.5029                                | 8.24              | 11.02                                  | 19.26           | 50.00           | -30.74   | AVG          | Р     |     |

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P P

P P

AVG

QP

AVG

QP

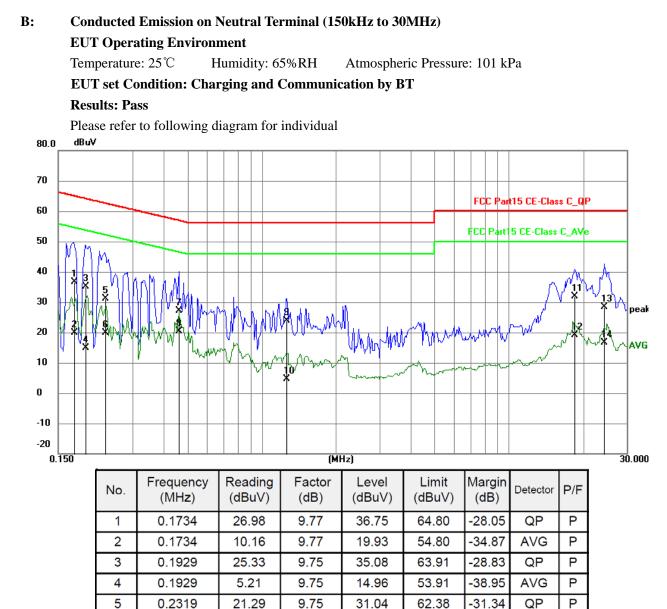
AVG

QP

AVG

QP

AVG



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

0.2319

0.4620

0.4620

1.2615

1.2615

18.5064

18.5064

24.3369

24.3369

10.13

17.44

10.68

14.09

-5.08

21.40

8.44

17.48

5.79

9.75

9.77

9.77

9.79

9.79

10.59

10.59

10.95

10.95

19.88

27.21

20.45

23.88

4.71

31.99

19.03

28.43

16.74

52.38

56.66

46.66

56.00

46.00

60.00

50.00

60.00

50.00

-32.50

-29.45

-26.21

-32.12

-41.29

-28.01

-30.97

-31.57

33.26

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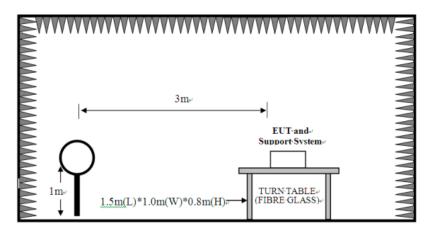


# 6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) 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

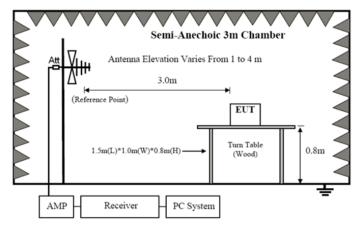


The report refers only to the sample tested and does not apply to the bulk.

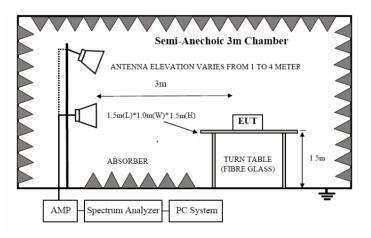
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For radiated emissions from 30MHz to1GHz



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.

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# 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 | rength of Fundamental (3m) |            | Field St | Field Strength of Harmonics (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.

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

| 1                     | I I I I I I I I I I I I I I I I I I I |                                   |
|-----------------------|---------------------------------------|-----------------------------------|
| 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                              |
| 30-88                 | 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. 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.

5. 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.

6. Battery full charged during tests.

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Horizontal

Horizontal

Pass

#### 6.5 **Test result**

#### **Fundamental & Harmonics Radiated Emission Data** Α

Please refer to the following test plots for details: Low Channel-2402MHz

## Horizontal

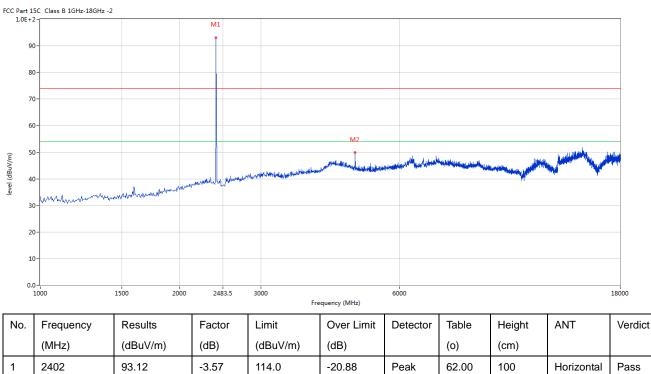
2

4802.799

49.85

3.12

74.0



-24.15

Peak

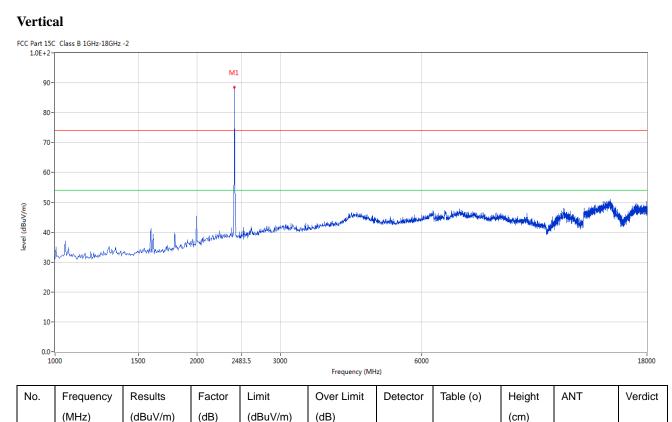
270.00

100

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-25.54

Peak

189.00

100

Vertical

Pass

| The report refers only | v to the sample tested and | d does not apply to the bulk. |
|------------------------|----------------------------|-------------------------------|
|                        |                            |                               |

-3.57

114.0

88.46

2402

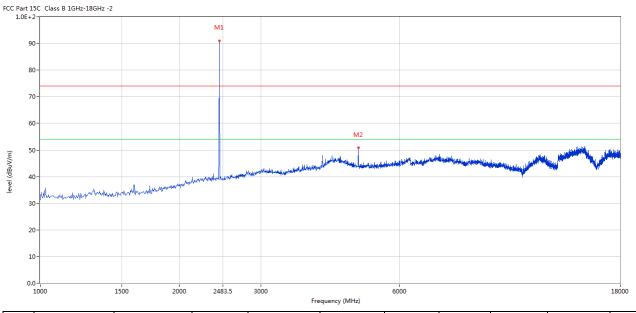
1

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

### Horizontal

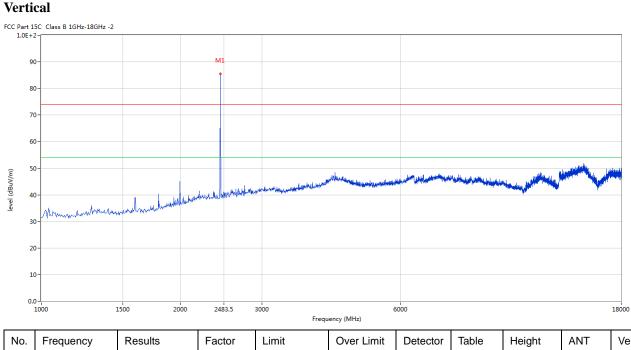


| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table  | Height | ANT        | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|------------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (o)    | (cm)   |            |         |
| 1   | 2441      | 90.99    | -3.57  | 114.0    | -23.01     | Peak     | 273.00 | 100    | Horizontal | Pass    |
| 2   | 4879.280  | 50.78    | 3.20   | 74.0     | -23.22     | Peak     | 55.00  | 100    | Horizontal | Pass    |

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| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table  | Height | ANT      | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|----------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (o)    | (cm)   |          |         |
| 1   | 2441      | 85.58    | -3.57  | 114.0    | -28.42     | Peak     | 191.00 | 100    | Vertical | Pass    |

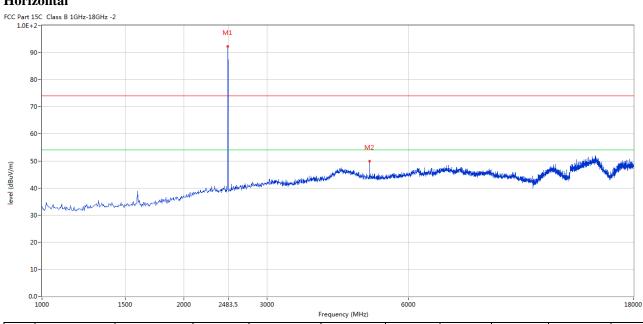
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## Please refer to the following test plots for details: High Channel-2480MHz

### Horizontal

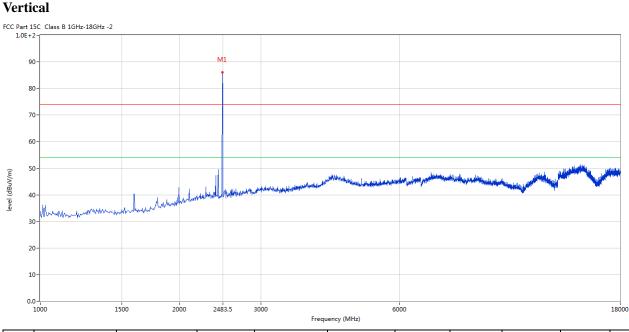


| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table  | Height | ANT        | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|------------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (o)    | (cm)   |            |         |
| 1   | 2480      | 92.36    | -3.57  | 114.0    | -21.64     | Peak     | 260.00 | 100    | Horizontal | Pass    |
| 2   | 4960.010  | 49.94    | 3.36   | 74.0     | -24.06     | Peak     | 277.00 | 100    | Horizontal | Pass    |

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| No. | Frequency | Results  | Factor | Limit    | Over Limit | Detector | Table  | Height | ANT      | Verdict |
|-----|-----------|----------|--------|----------|------------|----------|--------|--------|----------|---------|
|     | (MHz)     | (dBuV/m) | (dB)   | (dBuV/m) | (dB)       |          | (o)    | (cm)   |          |         |
| 1   | 2480      | 86.15    | -3.57  | 114.0    | -27.85     | Peak     | 255.00 | 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.

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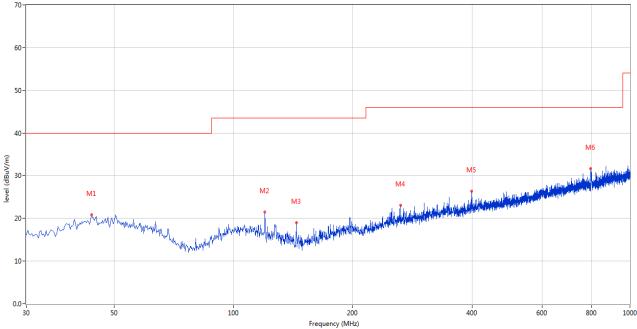
# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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   | 43.819    | 20.89    | -11.48 | 40.0     | -19.11     | Peak     | 244.00    | 100    | Horizontal | Pass    |
| 2   | 119.945   | 21.50    | -15.32 | 43.5     | -22.00     | Peak     | 73.00     | 100    | Horizontal | Pass    |
| 3   | 143.947   | 18.97    | -17.10 | 43.5     | -24.53     | Peak     | 86.00     | 100    | Horizontal | Pass    |
| 4   | 263.954   | 23.03    | -11.79 | 46.0     | -22.97     | Peak     | 217.00    | 100    | Horizontal | Pass    |
| 5   | 398.750   | 26.38    | -8.63  | 46.0     | -19.62     | Peak     | 35.00     | 100    | Horizontal | Pass    |
| 6   | 796.593   | 31.69    | -3.07  | 46.0     | -14.31     | Peak     | 90.00     | 100    | Horizontal | Pass    |

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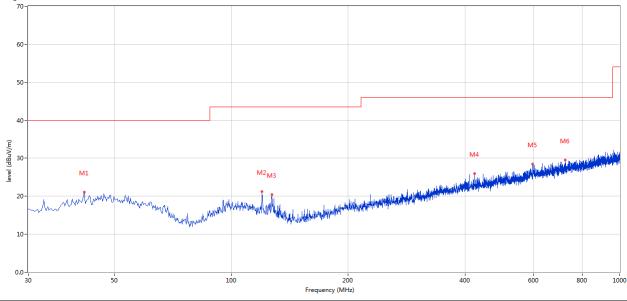
## Radiated Emission In Vertical (30MHz----1000MHz)

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   | 41.880    | 21.05    | -11.72 | 40.0     | -18.95     | Peak     | 136.00 | 100    | Vertical | Pass    |
| 2   | 119.945   | 21.20    | -15.32 | 43.5     | -22.30     | Peak     | 45.00  | 100    | Vertical | Pass    |
| 3   | 127.218   | 20.42    | -16.62 | 43.5     | -23.08     | Peak     | 355.00 | 100    | Vertical | Pass    |
| 4   | 422.994   | 25.92    | -8.11  | 46.0     | -20.08     | Peak     | 327.00 | 100    | Vertical | Pass    |
| 5   | 597.308   | 28.48    | -5.09  | 46.0     | -17.52     | Peak     | 52.00  | 100    | Vertical | Pass    |
| 6   | 724.346   | 29.55    | -3.77  | 46.0     | -16.45     | Peak     | 331.00 | 100    | Vertical | Pass    |

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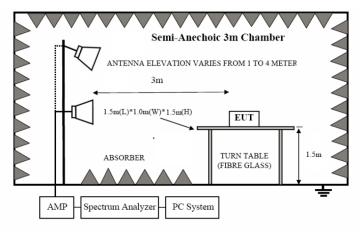


# 7. Band Edge

# 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.

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### 7.6 Test Result

| ]                             | Product:   | 94 KEY  | MECHAN<br>KEYBC             | IICAL GAM<br>DARD   | ING  | Polarity         |                    | H                     | orizontal         |                       |
|-------------------------------|--|---|-----------------------------|---|--|------------------|--------------------|-----------------------|-------------------|-----------------------|
|                               | Mode   | K   | Leeping Tra                 | insmitting  | ]  | Test Voltag      | e                  | Ι                     | DC3.7V            |                       |
| Te                            | mperature  |   | 24 deg                      | g. C,   |  | Humidity         |                    | 5                     | 6% RH             |                       |
| Te                            | est Result:  |   | Pas                         | S   |  |                  |                    |                       |                   |                       |
| 1.0E+<br>9<br>8<br>7          | 15C Class B 1GHz-18GHz<br>2-<br>10-<br>10-<br>10-<br>10- | -2  |                             |   |  |                  |                    |                       | M1                |                       |
| 1<br>1                        |  | regeneries, teksteries, en se steries fan die songe | skæsterenjskyde det særeger | ad you dig to a so the sound of t | de de préserveux normalised                    |                  | uliul , juli da la | M2<br>•               |                   | Veter                 |
| 1<br>1<br>0.                  |  | nglewith, the lange a water bighter denore          | ak manang jak ada ata ata a |   | Frequency (MHz)                                |                  | Welton - La La La  | / M2<br>•             |                   | 2410                  |
| 1<br>1<br>0.                  |  | Results<br>(dBuV/m)                                 | Factor<br>(dB)              |   |  | Detector         | Table<br>(o)       | Height<br>(cm)        | ANT               | 2410                  |
| (iii) 5<br>3<br>3<br>1<br>0.  | 10-<br>10-<br>10-<br>10-<br>10-<br>10-<br>10-<br>10-     | Results   | Factor                      | Limit   | Frequency (MHz)                                |                  |                    | Height                |                   | 2410                  |
| 3<br>2<br>1<br>0.<br>No.      | 10-<br>10-<br>10-<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         | (o)                | Height<br>(cm)        | ANT               | 2410<br>Verdic        |
| 5<br>3<br>2<br>1<br>0.<br>No. | 10-<br>10-<br>10-<br>10-<br>10-<br>10-<br>10-<br>10-     | Results<br>(dBuV/m)<br>92.73                        | Factor<br>(dB)<br>-3.57     | Limit<br>(dBuV/m)<br>74.0   | Frequency (MHz)<br>Over Limit<br>(dB)<br>18.73 | Detector<br>Peak | (o)<br>61.00       | Height<br>(cm)<br>100 | ANT<br>Horizontal | 2410<br>Verdic<br>N/A |

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| ]   | Product:   | 94 KE   |                           | NICAL GAN<br>OARD   | MING   | Detecto  | or                      | V              | /ertical           |                     |
|---|--|---|---------------------------|---|--|--|-------------------------|----------------|--------------------|---------------------|
|   | Mode   |   | Keeping T                 | ransmitting   |  | Test Volt  | age                     | D              | C3.7V              |                     |
| Te  | mperature  |   | 24 de                     | eg. C,  |  | Humidi   | ty                      | 5              | 6% RH              |                     |
| Te  | est Result:  |   | Pa                        | ass   |  |  |                         |                |                    |                     |
| C Part :<br>1.0E+                             | 15C Class B 1GHz-18GHz   | -2  |                           |   |  |  |                         |                |                    |                     |
|   |  |   |                           |   |  |  |                         |                | M1                 |                     |
| <u>c</u>                                      | 90 -   |   |                           |   |  |  |                         |                | $\wedge$           |                     |
| 8   | 30 -   |   |                           |   |  |  |                         |                | $\vdash \setminus$ |                     |
| 7   | 70-  |   |                           |   |  |  |                         | /              |                    |                     |
| e   | 50 -   |   |                           |   |  |  |                         |                |                    |                     |
|   |  |   |                           |   |  |  |                         |                | 1                  |                     |
|   |  |   |                           |   |  |  |                         | /              |                    |                     |
| Ĩ,  | 50 -   |   |                           |   |  |  | , loki i u li lilau dii | M2             |                    |                     |
| (m/vuda) 19                                   |  | del with two with the Ultree                            |                           | ud boores de su ville à sin et des  | dunkan dula kenadi                             | the constant of the second |                         | M2<br>•        |                    |                     |
|   | 10- Harden Andreithum  | ded south lass on the solution                          |                           | ut house the all the particular   | alin and the second                            |  |                         | M2             |                    | -                   |
|   |  | heil such te mann an heilt diese                        |                           | ut han it dan | dahadan dari kan baran ba                      |  |                         | <u>M2</u>      |                    |                     |
|   | 10- Harden Andreithum  | deil syrifilisionnen fischteilen                        |                           | ut to ci Accillane  | aliyaliya di kati ka ta cikaliha               | htiraan sidaa ke ka  |                         | <u>M2</u>      |                    |                     |
|   | 10- <b></b>  | heil said le sam an | . is had been a stated of | ist. Ing at Alamith, and in   | ddydaeedd ar meisdda                           |  |                         |                |                    | A destroyed by      |
| ш/лпар 2<br>Зарана<br>1                       | 10 - Lallie Later Lallie aller in 1<br>30  | deid syrichte son moderschildere                        |                           | ut locat Anni Unione de c   | iliyaharadakter versebi                        | ht in zwei daste laufen die her ihre ihre ihre ihre ihre ihre ihr  |                         | •              |                    |                     |
| ш/лпар 2<br>Зарана<br>1                       | 10 - Lalling to La Lalling alling<br>30 -<br>20 -  | heil said le sa and sa bhlas                            |                           | ut leget Annillander  | Frequency (MHz)                                |  |                         | •<br>•         |                    |                     |
| ///ng 2 1                                     | 10 - Laffina - La La Laffina III (m.)<br>30 -<br>20 -<br>10 -  | Results   | Factor                    | Limit   |  | Detector   | Table                   | Height         | ANT                | 24                  |
|   | 10 - Lilling to Lilling the set of the set o |   |                           |   | Frequency (MHz)                                |  | Table<br>(o)            | Height<br>(cm) | ANT                | 24                  |
| u/(nop) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 10   | Results   | Factor                    | Limit   | Frequency (MHz)                                |  |                         | -              | ANT                | 24                  |
|   | 10-<br>20-<br>10-<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   | (o)                     | (cm)           |                    | 24<br>Verdic        |
| M/map) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  | 10-<br>20-<br>10-<br>2350<br>Frequency<br>(MHz)<br>2402.082  | Results<br>(dBuV/m)<br>87.89                            | Factor<br>(dB)<br>-3.57   | Limit<br>(dBuV/m)<br>74.0   | Frequency (MHz)<br>Over Limit<br>(dB)<br>13.89 | Detector<br>Peak   | (o)<br>191.00           | (cm)<br>100    | Vertical           | 24<br>Verdic<br>N/A |

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| ]   | Product:   | 94 KE  |                      | ANICAL GA<br>BOARD       | Polarity   |   | Horizontal  |                              |  |   |  |
|---|--|--|----------------------|--------------------------|--|---|---|------------------------------|--|---|--|
|   | Mode   |  | Keeping Transmitting |                          |  |   |   | DC3.7V                       |  |   |  |
| Te  | mperature  |  | 24 0                 | deg. C,                  |  | Test Vo<br>Humi   |   | 56% RH                       |  |   |  |
| Те  | est Result:  |  |                      | Pass                     |  |   |   |                              |  |   |  |
| CC Part 1<br>1.0E+  | 15C Class B 1GHz-18GH  | z -2   |                      |                          |  |   |   |                              |  |   |  |
|   |  |  | ,<br>M               | 11<br>Two                |  |   |   |                              |  |   |  |
| 8   | 30 -   |  | Y                    | - M                      |  |   |   |                              |  |   |  |
| 7   | 70-  |  | y.                   | - W                      |  |   |   |                              |  |   |  |
| 6   | 50-  |  | work and             | W                        |  |   |   |                              |  |   |  |
|   | 50-  |  |                      |                          |  |   |   |                              |  |   |  |
| Ē 5   | 50-  |  | *                    |                          | WW.  |   |   |                              |  |   |  |
| (m/vudb) 19ve   | 50-<br>40-   | Anton Marabile mil believed about  | /                    |                          | 12 Martin Martine  |   |   | entry and other and study up | anth life it descent a cottine parties con | 10.14 Jarok 19 Alertonik                        |  |
| avel (dbu//m<br>A   | 10-  | Autor Hanside mail follow had been a   | /                    | M                        | 12 Why have a state of the stat | Hardenhöffren von farenden  |   | ada and a star and and       | achthead denidraetharsaite an              | un March nghlann d                              |  |
| level (dBuV/m<br>c  | 10-  | dassilines millindelig and   | /                    | M                        | 12 Way of the states   | Andrew Marine Marine<br>Marine Marine M<br>Marine Marine M | , degited all the design of | adjesenderlaner addese       | safkijstek defenistennettingspaatisenet    | sa Marakatat                                    |  |
| ۳/۱۹۵۹ (dgn/) هموا<br>عموا (dgn/)                           | 10 - Hoyan Alexandriadi, An<br>30 -<br>20 -  | has the way is not be subject to the   | *                    | M                        | 12 Way of the states   | y <mark>fan de het de serven de nerten</mark>   | vergendenderen en verkommen   | aka aka aka a                | aş bişək de esti astronomia yarisşer       | ta Marakati di                                  |  |
| ۳/۱۹۵۹ (dgn/) هموا<br>عموا (dgn/)                           | 10 - Hoykon Andrew Hiller An<br>30 -   | data the waite weight which a feature  | <b>/</b>             | M                        | 22 WWW WWWWWWWWWWWWWWWW  | official de la forma de la contra contra<br>Contra contra c   |   | anter an antalan             | Balkijske Strainfrantskasjonitagen         | n Marin Marine                                  |  |
| ۳//mgp 4<br>3<br>2<br>1                                     | 10 - Hoyan Alexandriadi, An<br>30 -<br>20 -  | has the wait out for shall be a factor of the state of th | *                    |                          | 33.5<br>Frequency (MHz)  | an a  | , engediskeis och ver   | niya yu daa a addaa          | a y Dight de na naeth y suits en           | 1 <b>1 11 11 11 11 11 11 11 11 11 11 11 11 </b> |  |
| ۳//mgp 4<br>3<br>2<br>1                                     | 10 - United and the state of th | Results  | Factor               |                          | 33.5   | Detector  | Table   | Height                       | Antika Manifundi Angeli Angel              |   |  |
| ۳/۱۹۳۵<br>۱۹۷۹<br>۲<br>۲<br>۲<br>۲<br>۲<br>۲<br>۲<br>۲<br>۲ | 10 - 444 m 444 444 444 444 444 444 444 444   |  | Factor<br>(dB)       | 248                      | 33.5<br>Frequency (MHz)  |   |   |                              |  | 250   |  |
| ۳/۱۹۳۵<br>۱۹۷۹<br>۲<br>۲<br>۲<br>۲<br>۲<br>۲<br>۲<br>۲<br>۲ | 10 - Uppen Automaticality of 10<br>30 - 20 - 20 - 20 - 20 - 2470<br>10 - 2470<br>Frequency   | Results  |                      | 248<br>Limit             | 33.5<br>Frequency (MHz)  |   | Table   | Height                       |  | 250   |  |
| u//nngp) 4<br>3<br>2<br>1<br>0.<br>NO.                      | 10 - 44400 4440 4440 4440 4440 4440 4440   | Results<br>(dBuV/m)  | (dB)                 | 248<br>Limit<br>(dBuV/m) | 33.5<br>Frequency (MHz)<br>Over<br>Limit (dB)  | Detector  | Table<br>(o)  | Height<br>(cm)               | ANT  | 250<br>Verdic                                   |  |

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| Product:                          |   | 94 KEY   |                | NICAL GAI<br>OARD | AMING Detector              |                            |   | Vertical             |                                      |          |  |
|-----------------------------------|---|--|----------------|-------------------|-----------------------------|----------------------------|---|----------------------|--------------------------------------|----------|--|
|                                   | Mode  |  | Keeping T      | ransmitting       |                             | Test Volta                 | nge   | DC3.7V               |                                      |          |  |
| Te                                | emperature  |  | 24 de          | eg. C,            |                             | Humidit                    | ty  | -                    |                                      |          |  |
| Te                                | est Result:   |  | Pa             | ass               |                             |                            |   |                      |                                      |          |  |
| CC Part 1<br>1.0E+                | 15C Class B 1GHz-18GHz  | -2   |                |                   |                             |                            |   |                      |                                      |          |  |
| 8                                 | 90  |  | MI             | N N               |                             |                            |   |                      |                                      |          |  |
| (W/Angp) 4<br>3<br>2              | 50  | i firing an a da     | y              |                   | Maridillandardarid naisyabi | ill with the class of      | ak lander og sjøler og følge  | Madda an Aleria a Ad | elit, <sub>t</sub> ich, so sidd i eg | kuteises |  |
| (ພັ/ກາດຍາ)<br>4<br>3<br>2<br>1    | 50 -<br>40 - <u>141   14   14   14   14   14   14   14</u>                      | ispineneelistettetetetetetetetetetetetetetetetetet | y / /          | 2483.5            | Frequency (MHz)             | illestition de la contrast | al ta tatu a sta  | dada sedara dal      | hits, juli, jacobilitar              | 2500     |  |
| (W/ANNO<br>4<br>3<br>2<br>1<br>0. | 50 -<br>40 - <b>111   11   11   11   11   11   11   </b>                        | Results  | Factor         |                   |                             | Detector                   | Table   | Height               | ANT                                  |          |  |
| (ພັ/ກາດຍາ)<br>4<br>3<br>2<br>1    | 50 -<br>40 - <b>141 - 141 - 141 - 141 - 141</b><br>30 -<br>20 -<br>10 -<br>2470 |  | Factor<br>(dB) | F                 | Frequency (MHz)             |                            | din di provincia di stato di s |                      |                                      | 2500     |  |
| (W/ANNO<br>4<br>3<br>2<br>1<br>0. | 50 -<br>10 -<br>10 -<br>20 -<br>10 -<br>2470<br>Frequency                       | Results  |                | Limit             | Frequency (MHz)             |                            | Table   | Height               |                                      | 2500     |  |

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

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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 with gain 2.34dBi maximum. It fulfills the requirement of this section. Test Result: Pass

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| <b>GFSK Modulation</b> |           |                            |         |                   |  |                |                          |                      |               |
|------------------------|-----------|----------------------------|---------|-------------------|--|----------------|--------------------------|----------------------|---------------|
| Product:               | 94 KEY MI | Test Mo                    | de:     | Keep transmitting |  |                |                          |                      |               |
| Mode                   | Keej      | ping Trans                 | mitting |                   | Test Volt  | age            | D                        | C3.7V                |               |
| Temperature            |           | 24 deg. 0                  | Ξ,      |                   | Humidi   |                | 56% RH                   |                      |               |
| Test Result:           |           | Pass                       |         |                   | Detecto  | or             |                          | РК                   |               |
| 20dB Bandwidth         |           | 991.98kF                   | łz      |                   |  |                |                          |                      |               |
| Ref Lvl<br>10 dBm      | ndB       | 1 [T1 r<br>20.<br>L.983967 | .00 dB  | RBW<br>VBW<br>SWT | 30 k<br>100 k<br>8.5 m   | Hz             | RF Att 20 dB<br>Unit dBm |                      | n             |
|                        |           |                            | قرب     | hy                | ▼1<br>ndB<br>BW<br>▽⊤1   |                | 20<br>91.98390           | 5794 kHz             |               |
| -10                    |           |                            |         | - V               |  | [T1]<br>2 [T1] |                          | 1603 GHz<br>4.47 dBn |               |
| -30                    |           | $\sqrt{2}$                 |         |                   | Server of the se |                |                          |                      | 111           |
| -40                    |           |                            |         |                   |  |                |                          |                      | -             |
| -60                    |           |                            |         |                   |  |                |                          |                      |               |
| -70                    |           |                            |         |                   |  |                |                          |                      | -             |
| -80                    |           |                            |         |                   |  |                |                          |                      | -             |
| -90<br>Center 2.4      | 02 GHz    |                            | 300     | kHz/              |  |                | Spa                      | an 3 MHz             | <u>]</u><br>: |

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| Product:<br>Mode<br>Temperature<br>Test Result:<br>20dB Bandwidth | Keeping                 | YBOARD<br>g Transmit | )             | J                    | Te                          | est Mode:                   |            | Keen tra             | nsmitting                    |            |  |  |
|---|-------------------------|----------------------|---------------|----------------------|-----------------------------|-----------------------------|------------|----------------------|------------------------------|------------|--|--|
| Temperature<br>Test Result:                                       |                         |                      | tting         |                      | Test Mode:                  |                             |            | Reep ut              | instituting                  |            |  |  |
| Test Result:  | 24                      | 4 deg. C,            |               | Keeping Transmitting |                             |                             |            |                      |                              |            |  |  |
|   |                         |                      | 24 deg. C,    |                      |                             |                             |            |                      | 56% RH                       |            |  |  |
| 20dB Bandwidth  |                         | Pass                 |               |                      | Ι                           | Detector                    |            | F                    | РК                           |            |  |  |
| $\wedge$  | 985.97kHz               |                      |               |                      |                             |                             |            |                      |                              |            |  |  |
| Ref Lvl<br>10 dBm   | Marker<br>ndB<br>BW 985 |                      | 00 dB         | v                    | BW<br>BW<br>WT              | 30 kHz<br>100 kHz<br>8.5 ms | i          | F Att<br>nit         | 20 dB<br>dBm                 | ı          |  |  |
| 10  |                         |                      |               |                      |                             | ▼1 [*                       | F1]        | -4<br>2.44100        | .69 dBm<br>301 GHz           | A          |  |  |
| 0   |                         |                      | $\sim$        | r<br>m               |                             | ndB<br>BW<br>⊽⊤1            | 98<br>[T1] | 20<br>5.97194<br>-24 | .00 dB<br>389 kHz<br>.80 dBm |            |  |  |
| -10   |                         | ~                    | $\mathcal{N}$ |                      | $\mathcal{T}_{\mathcal{T}}$ |                             | [T1]       | 2.44052<br>-24       | 204 GHz                      | L          |  |  |
| -20<br>1MAX   |                         | T1                   |               |                      |                             | T2<br>V                     |            | 2.44150              | 802 GHz                      | <b>1MA</b> |  |  |
| - 30  |                         |                      |               |                      |                             | Ŋ                           | λ, ~       |                      |                              |            |  |  |
| -50   |                         |                      |               |                      |                             |                             | V          |                      |                              |            |  |  |
| -60   |                         |                      |               |                      |                             |                             |            | Z                    |                              |            |  |  |
| -70   |                         |                      |               |                      |                             |                             |            |                      | U-                           |            |  |  |
|   |                         |                      |               |                      |                             |                             |            |                      |                              |            |  |  |
| -80   |                         |                      |               |                      |                             |                             |            |                      |                              |            |  |  |
| -90 Center 2.4  | 441 GHz                 |                      | 300           | kHz/                 | I                           | I                           |            | Spa                  | n 3 MHz                      |            |  |  |

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| Product:          | 94 KEY MECHANICAL GAMING<br>KEYBOARD    |     |                           |       |      |                      | Test Mode:                   |                     | Keep transmitting         |                               |            |  |
|-------------------|---|-----|---------------------------|-------|------|----------------------|------------------------------|---------------------|---------------------------|-------------------------------|------------|--|
| Mode              | Keeping Transmitting                    |     |                           |       |      | Te                   | st Voltage                   | DC3.7V              |                           |                               |            |  |
| Temperature       |   | 24  | deg. C,                   |       |      | Humidity<br>Detector |                              |                     | 56%                       | % RH                          |            |  |
| Test Result:      |   |     | Pass                      |       |      |                      |                              |                     | ]                         | PK                            |            |  |
| 0dB Bandwidth     |   | 985 | .97kMHz                   |       |      |                      |                              |                     |                           |                               |            |  |
| Ref Lvl<br>10 dBm | Ma<br>nd<br>BW                          | lB  | 1 [T1 n<br>20.<br>.971943 | 00 dB | V    | BW<br>BW<br>WT       | 30 kHz<br>100 kHz<br>8.5 ms  | :                   | 7 Att<br>nit              | 20 dB<br>dBn                  | ı          |  |
|                   |   |     |                           |       |      |                      |                              | F1]                 | -4<br>2.48000             | .37 dBm<br>301 GHz            | A          |  |
| -10               |   |     |                           |       | n n  | ~                    | ndB<br>BW<br>♥ <sub>T1</sub> | 98<br>[ <u>T1</u> ] | 20<br>5.97194<br>-24      | .00 dB<br>389 kHz<br>.37 dBm  |            |  |
| -20               |   |     | TT16                      | ~~~~  |      | 4                    |                              | [T1]                | 2.47952<br>-24<br>2.48050 | 204 GHz<br>.14 dBm<br>802 GHz |            |  |
| <b>1MAX</b>       |   |     |                           |       |      |                      | VP 1                         |                     |                           |                               | <b>1MA</b> |  |
| -40               | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |     |                           |       |      |                      |                              | 5                   |                           |                               |            |  |
| -50               |   |     |                           |       |      |                      |                              |                     | $\overline{}$             |                               |            |  |
| -60               |   |     |                           |       |      |                      |                              |                     |                           |                               |            |  |
| -70               |   |     |                           |       |      |                      |                              |                     |                           |                               |            |  |
| - 80              |   |     |                           |       |      |                      |                              |                     |                           |                               |            |  |
| -90               |   |     |                           |       |      |                      |                              |                     |                           |                               |            |  |
| Center 2          | .48 GHz                                 |     |                           | 300   | kHz/ |                      |                              |                     | Spa                       | an 3 MHz                      |            |  |

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## 10.0 FCC ID Label

## FCC ID: TUVET-8886A

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:



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#### 11.0 Photo of testing

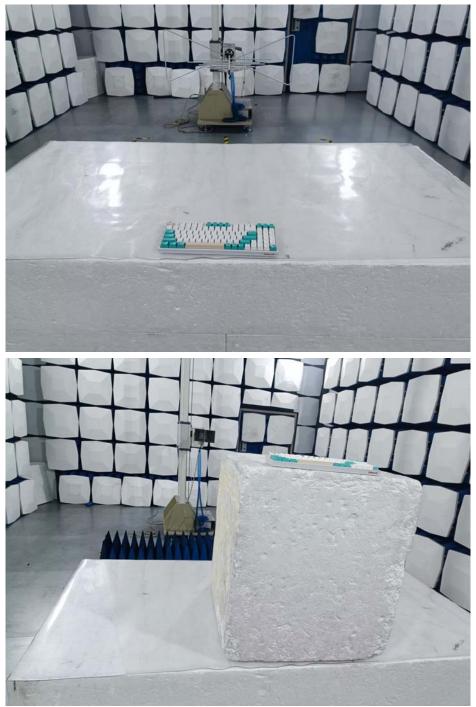
11.1 Conducted test View--



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Radiated emission test view



## **Photographs – EUT**

Please refer test report TW2211238-01E

### --End of the report--

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