

Report No.:	TW2409120-01E
Applicant:	Eastern Times Technology Co., Ltd
Product:	REDRAGON 104 KEY 3-MODES HOT-SWAPPABLE MECHANICAL KEYBOARD
Model No.:	K685WB-RGB-PRO, K685RGB-PRO, ET-7059
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 Jane

Terry Tang

Manager

Dated:

September 14, 2024

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:**

## 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.

1.3 Description of EUT

2000 prior of 201	
Product:	REDRAGON 104 KEY 3-MODES HOT-SWAPPABLE MECHANICAL
	KEYBOARD
Manufacturer:	Eastern Times Technology Co., Ltd
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,
	Dongguan City, Guangdong, China.
Trademark:	REDRAGON
Model Number:	K685WB-RGB-PRO
Additional Model Name	K685RGB-PRO, ET-7059
Rating:	Input: DC5V, 500mA or DC3.7V, 120mA
Battery	DC3.7V, 3000mAh Li-ion battery
Modulation Type:	GFSK
Operation Frequency:	2403-2480MHz
Channel List (Unit: MHz):	2403, 2424, 2441, 2461, 2414, 2435, 2450, 2470, 2409, 2429, 2455, 2475,
	2419, 2445, 2465, 2480
Hardware Version:	8479-A RX V1
Software Version:	C5202
Serial No.:	RDK685WB-RGB-PRO24042000028
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 2024-09-10 to 2024-09-14
- 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

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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	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
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	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
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	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

#### 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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The EUT has been tested according to the following specifications:

#### **3.0** Technical Details

#### 3.1 Summary of test results

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge 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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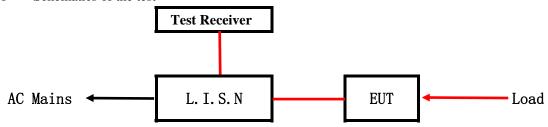
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### 5. Power Line Conducted Emission Test

5.1 Schematics of the test

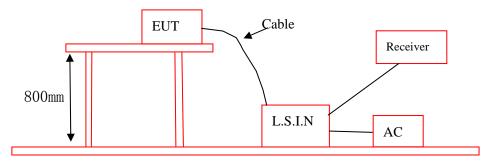


EUT: Equipment Under Test

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. Test Voltage: 120V~, 60Hz

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

Device	Manufacturer	Model	FCC ID
REDRAGON 104 KEY			
3-MODES	Fastern Times Technology	K685WB-RGB-PRO,	
HOTSWAPPABLE	Eastern Times Technology	K685RGB-PRO,	TUVET-7059A
MECHANICAL	Co., Ltd	ET-7059	
KEYBOARD			

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#### B. Internal Device

2.	1110011101 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 C63.4 -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 (d	lBμV)
(MHz)	Quasi-peak Level	Ave ag 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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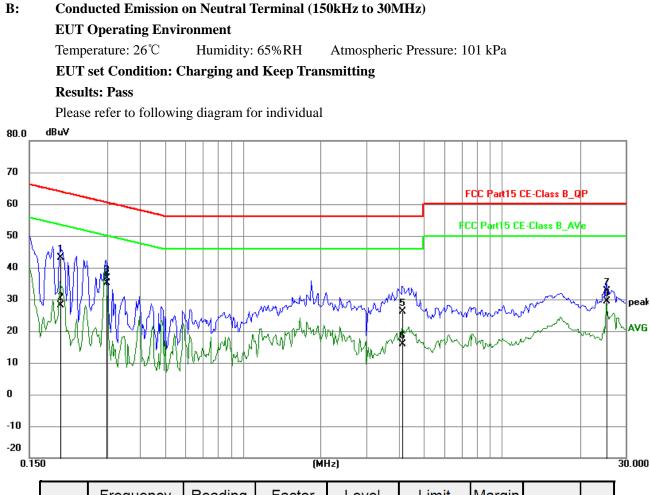
Conducted Emission on Live Terminal (150kHz to 30MHz) A: **EUT Operating Environment** Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa **EUT set Condition: Charging and Keep Transmitting Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class B\_QP 60 FCC Part 5 CE-Class B\_AVe 50 40 30 peak AVG 20 10 0 -10 -20 0.150 (MHz) 30.000

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
	1	0.1850	33.46	9.76	43.22	64.26	-21.04	QP	Р
	2	0.1850	21.41	9.76	31.17	54.26	-23.09	AVG	Ρ
	3	0.2982	28.37	9.76	38.13	60.29	-22.16	QP	Ρ
	4	0.2982	25.57	9.76	35.33	<b>5</b> 0.29	-14.96	AVG	Ρ
	5	4.3416	15.44	9.90	25.34	56.00	-30.66	QP	Р
	6	4.3416	<mark>6.64</mark>	9.90	16.54	46.00	-29.46	AVG	Ρ
	7	17.0868	17.37	10.51	27.88	60.00	-32.12	QP	Р
l	8	17.0868	10.91	10.51	21.42	50.00	-28.58	AVG	Ρ

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1968	33.35	9.75	43.10	63.74	-20.64	QP	Р
2	0.1968	18.27	9.75	28.02	53.74	-25.72	AVG	Р
3	0.2982	26.96	9.76	36.72	60.29	-23.57	QP	Р
4	0.2982	25.30	9.76	35.06	50.29	-15.23	AVG	Р
5	4.1310	16.34	9.89	26.23	56.00	-29.77	QP	Ρ
6	4.1310	<mark>6.01</mark>	9.89	15.90	46.00	-30.10	AVG	Р
7	25.2300	21.58	11.00	32.58	60.00	-27.42	QP	Р
8	25.2300	18.45	11.00	29.45	50.00	-20.55	AVG	Ρ

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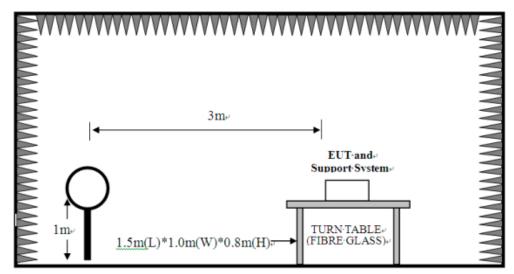


### 6 Radiated Emission Test

- 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

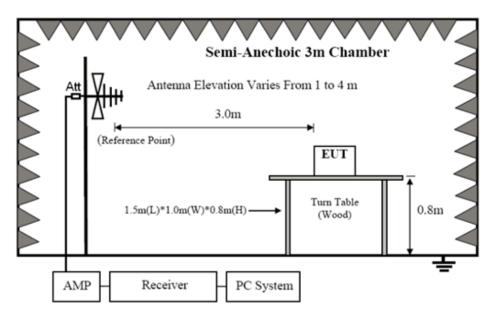


For radiated emissions from 30MHz to1GHz

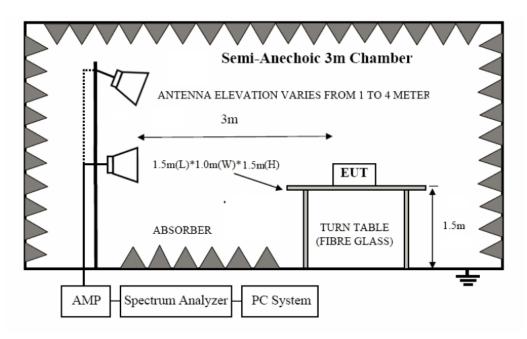
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For radiated emissions above 1GHz



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	ength of Fundame	ntal (3m)	Field S	trength of Harmo	nics (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)
	1 (10 10)					

### 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.

-		
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) =  $20 \log \text{RF}$  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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### 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal

1

2

2403

4807.048

93.23

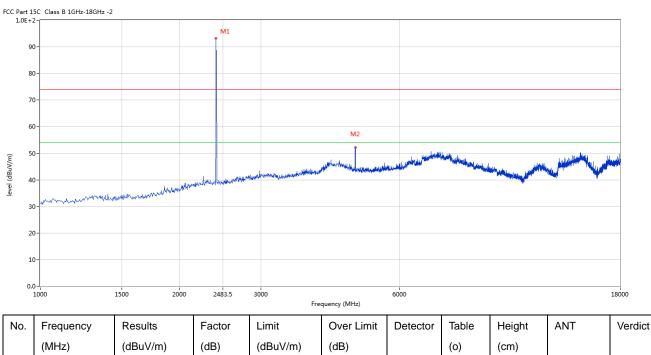
52.21

-3.57

3.13

114.0

74.0



-20.77

-21.79

Peak

Peak

50.00

50.00

100

100

Horizontal

Horizontal

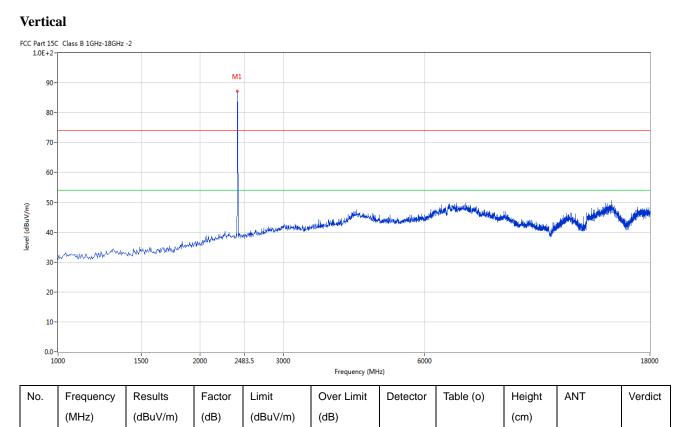
Pass

Pass

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-26.82

Peak

98.00

100

Vertical

Pass

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

87.18

-3.57

114.0

1

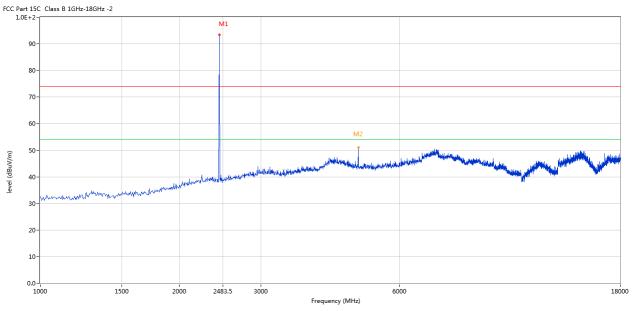
2403

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

#### Horizontal

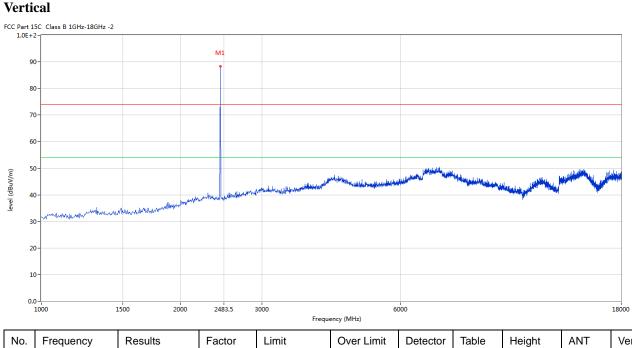


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	93.41	-3.57	114.0	-20.59	Peak	51.00	100	Horizontal	Pass
2	4879.280	51.10	3.20	74.0	-22.90	Peak	46.00	100	Horizontal	Pass

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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	88.33	-3.57	114.0	-25.67	Peak	89.00	100	Vertical	Pass

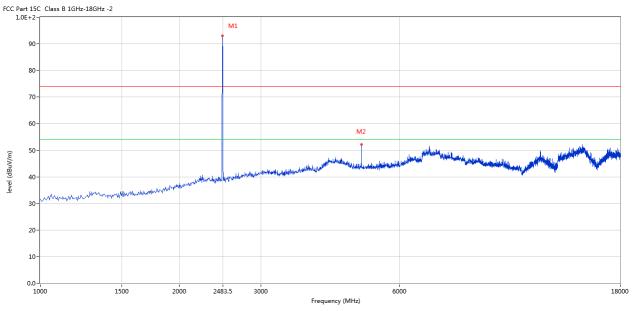
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### Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal

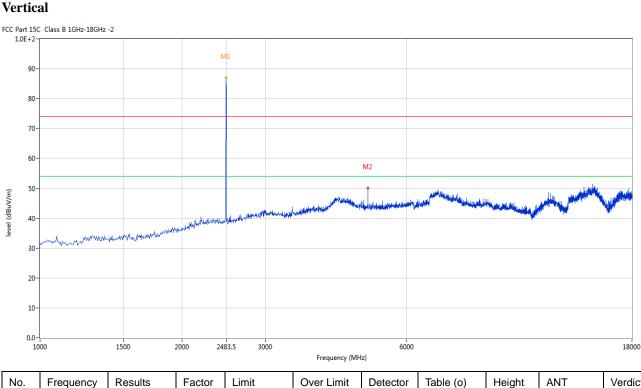


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	92.95	-3.57	114.0	-21.05	Peak	47.00	100	Horizontal	Pass
2	4960.010	52.08	3.36	74.0	-21.92	Peak	63.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2480	87.05	-3.57	114.0	-26.95	Peak	95.00	100	Vertical	Pass
2	4960.010	50.15	3.36	74.0	-23.85	Peak	90.00	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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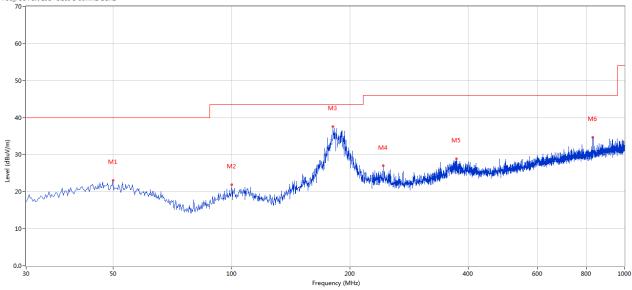
### B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

### Results: Pass

Please refer to following diagram for individual

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



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	49.880	23.05	-11.36	40.0	16.95	Peak	160.00	100	Horizontal	Pass
2	100.065	21.83	-13.52	43.5	21.67	Peak	280.00	100	Horizontal	Pass
3	181.282	37.54	-15.11	43.5	5.96	Peak	255.00	100	Horizontal	Pass
4	243.104	26.97	-12.19	46.0	19.03	Peak	230.00	100	Horizontal	Pass
5	373.052	28.90	-9.46	46.0	17.10	Peak	360.00	100	Horizontal	Pass
6	830.777	34.66	-2.81	46.0	11.34	Peak	249.00	100	Horizontal	Pass

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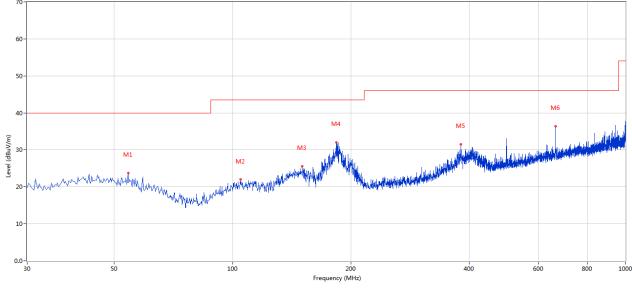
### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### **Results:** Pass

Please refer to following diagram for individual

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



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	54.244	23.76	-11.60	40.0	16.24	Peak	158.00	100	Vertical	Pass
2	104.671	21.95	-13.25	43.5	21.55	Peak	19.00	100	Vertical	Pass
3	150.492	25.56	-17.00	43.5	17.94	Peak	255.00	100	Vertical	Pass
4	183.464	32.09	-14.96	43.5	11.41	Peak	258.00	100	Vertical	Pass
5	381.537	31.54	-9.18	46.0	14.46	Peak	255.00	100	Vertical	Pass
6	663.979	36.39	-4.40	46.0	9.61	Peak	337.00	100	Vertical	Pass

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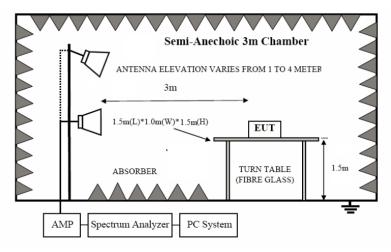


### 7. Band Edge

### 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

		REDRAG	GON 104 F	KEY 3-MODE	ES					
]	Product:	HOTSWA	PPABLE	MECHANICA	4L	Polarity		]	Horizontal	
			KEYBO	ARD						
	Mode	Ke	eping Trar	nsmitting	Т	est Voltag	e		DC3.7V	
Te	mperature		24 deg.	С,		Humidity			56% RH	
Te	est Result:		Pass							
C Part 1 1.0E+	15C Class B 1GHz-18GHz 2-	-2								
								M1		
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8								, ib	M	
7	0-									
6	i0 -								<u> </u>	
							M2		<u> </u>	
. 5					Ma				MANNA AND AND AND AND AND AND AND AND AND	
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4 3 2 1	0	Results	Factor	in die selection d	quency (MHz)	Detector	Table	Height		
, 4 3 2 1	0	Results	Factor	Fre Limit	quency (MHz)	Detector	Table	Height	ANT	
3 2 1 0 No.	0- 0- 2370 Frequency (MHz)	(dBuV/m)	(dB)	Fre Limit (dBuV/m)	quency (MHz) Over Limit (dB)		(o)	(cm)	ANT	Verdio
3 2 1 0 No.	0	(dBuV/m) 92.46	(dB) -3.57	Fre Limit (dBuV/m) 74.0	quency (MHz) Over Limit (dB) 18.46	Peak	(o) 57.00	(cm) 100	ANT Horizontal	Verdio N/A
, 4 3 2 1 1 0 0 No. 1 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0	(dBuV/m) 92.46 71.56	(dB) -3.57 -3.57	Fre Limit (dBuV/m) 74.0 74.0	quency (MHz) Over Limit (dB) 18.46 -2.44	Peak Peak	(o) 57.00 293.33	(cm) 100 100	ANT Horizontal Horizontal	Verdio N/A Pass
3 2 1 0 No.	0	(dBuV/m) 92.46	(dB) -3.57	Fre Limit (dBuV/m) 74.0	quency (MHz) Over Limit (dB) 18.46	Peak	(o) 57.00	(cm) 100	ANT Horizontal	Verdio N/A

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		REDRAG	ON 104 KI	EY 3-MODE	S					
]	Product:	HOTSWAPPABLE MECHANICAL				Detector	Vertical			
			KEYBOA	RD						
	Mode	Kee	eping Trans	smitting	Te	st Voltage		D	C3.7V	
Te	emperature		24 deg. (	С,	Н	Iumidity		50	6% RH	
Test Result:			Pass							
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2								
8	70 70								hy h	
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(W/ANGO) 1000 1000 1000 1000 0.	50 - 10 - 10 - 10 - 20 - 10 - 2370 Frequency	Results	Factor	Limit	quency (MHz) Over Limit	Detector	Table	Height	ANT	2410
1 No.	50 - 10 - 10 - 10 - 10 - 10 - 10 - 2370 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	quency (MHz) Over Limit (dB)		(0)	(cm)	ANT	2410 Verdic
(Wuhner) 4 3 2 1 0. No.	50 - 	Results	Factor	Limit	quency (MHz) Over Limit (dB) 12.23	Detector Peak		•		2410 Verdic
(W/nno) 4 3 2 1 0. No. 1 2	50 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 2370 Frequency (MHz) 2402.372 2400.000	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m) 74.0 74.0	quency (MHz) Over Limit (dB) 12.23 -9.22	Peak Peak	(0)	(cm)	ANT Vertical Vertical	2410 Verdic N/A Pass
(Wuhner) 4 3 2 1 0. No.	50 - 10 - 10 - 10 - 10 - 10 - 2370 Frequency (MHz) 2402.372	Results (dBuV/m) 86.23	Factor (dB) -3.57	Limit (dBuV/m) 74.0	quency (MHz) Over Limit (dB) 12.23	Peak	(o) 97.00	(cm) 100	ANT Vertical	2410 Verdic

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Product:		REDRA HOTSW		Polarity		Horizontal					
	Mode	ŀ	Keeping Tr	ansmitting		Test Ve	oltage		DC3.7V		
Temperature		24 deg. C,				Humidity			56% RH		
Test Result:			Pass								
8	10		MI	NAN MANANA MA	h.						
level (dBuV/m 3	50 - 	ungenergelen ville		M2	"My King the second	-tendesteysisiin taade ahe	ฟฟนกร้องไปเชื่องไม่ (ค.ศ. 1	assonadored biblio	thing the the subsection of	harvestue Beer	
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۳/۱۵۳۳ (۱۹۵۵) ۱۹۸۹ ع ۱ ۵.	10	Results (dBuV/m)	Factor (dB)	1	Frequency (MHz)	F		Height (cm)	W/www.elic.Barterandigateran	r	
۳/۱۵۳۳ (۱۹۵۵) ۱۹۸۹ ع ۱ ۵.	10			Limit	Frequency (MHz)	F	Table	-	ANT Horizontal	r	
u()(ngp) 4 3 2 1 0. No.	10	(dBuV/m)	(dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		Verdic	

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Product:			REDRAGON 104 KEY 3-MODES HOTSWAPPABLE MECHANICAL				Detector		Vertical		
				KEYBOARI							
	Mode		Keep	ping Transm	itting		est Voltage		DC3.7	V	
Temperature			24 deg. C,				Humidity		56% RH		
	Test Result:		Pass								
C Part 1 1.0E+2	5C Class B 1GHz-18GHz 2-	: -2									
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50			. M	- Carling and the second se							
80	0-		all	- The second							
70	0-			N.							
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	60-										
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10 0.0 0.0	0- 	Results			Frequency (MF			Height		2500	
20 30 10 0.0 10	0- 0- 2470 Frequency (MHz)	Results (dBuV/m)	(dB)	(dBuV/m)	Frequency (MF Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdic	

Note: 1. 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**

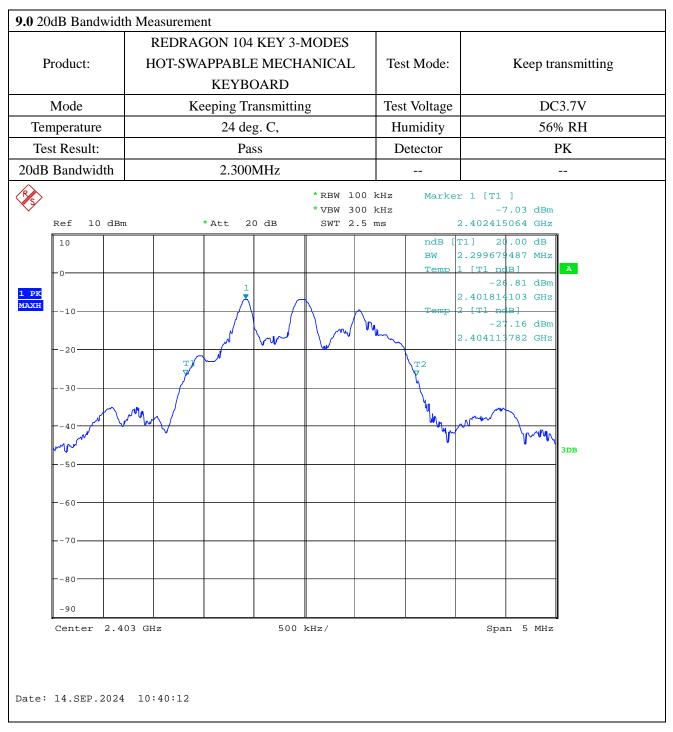
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply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

This product has a PCB antenna. The antenna gain is 2.34dBi Max. It fulfills the requirement of this section. Test Result: Pass

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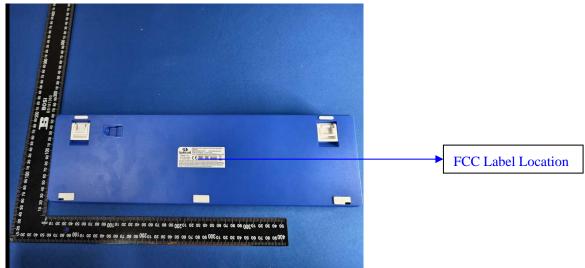
### 10.0 FCC ID Label

### FCC ID: TUVET-7059A

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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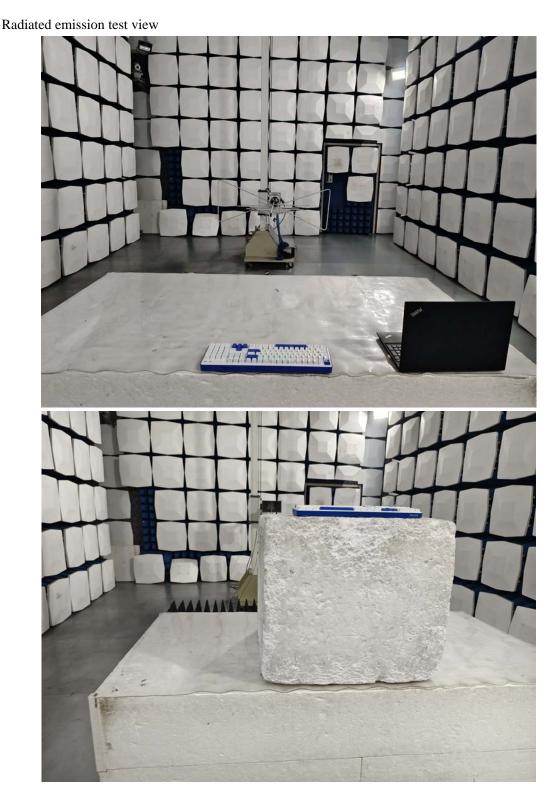


- 11.0 Photo of testing
- 11.1 Conducted test View--



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11.2

Outside View-Keyboard



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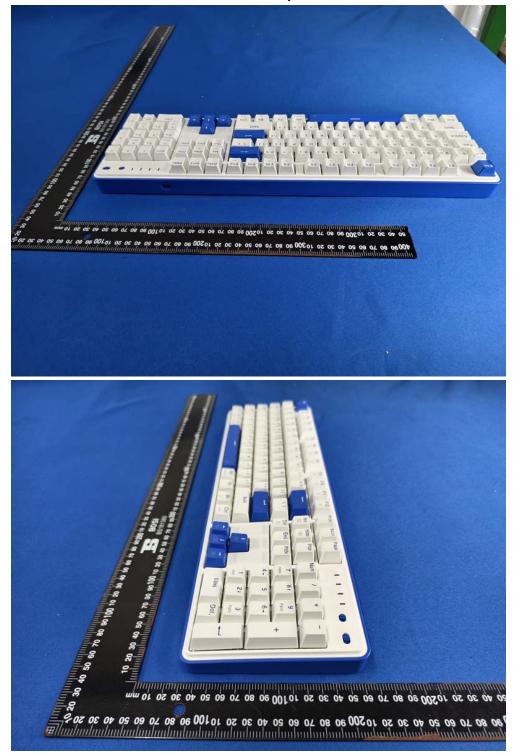
Outside View-Keyboard



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Outside View-Keyboard

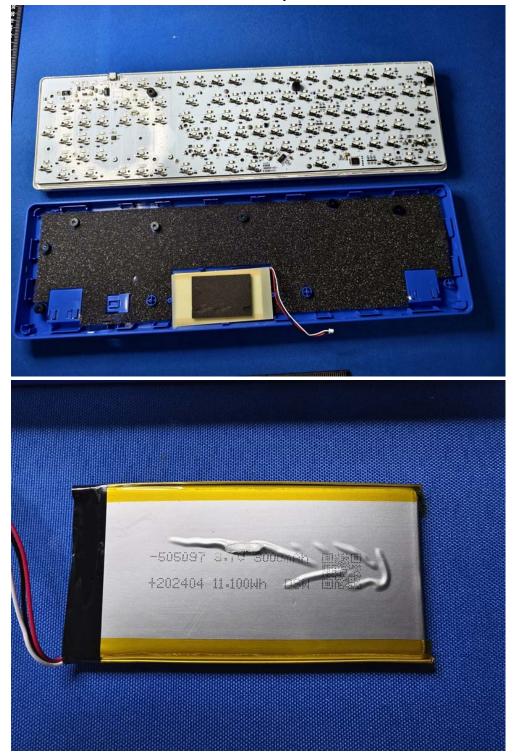


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Inside View-Keyboard



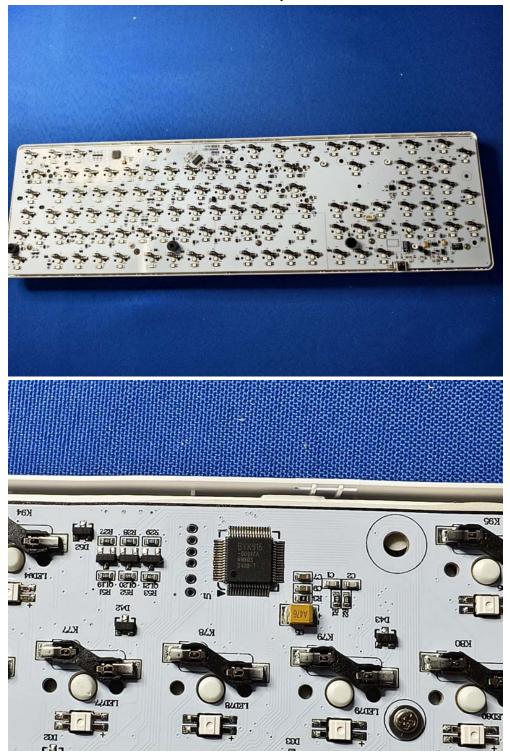
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Inside View-Keyboard

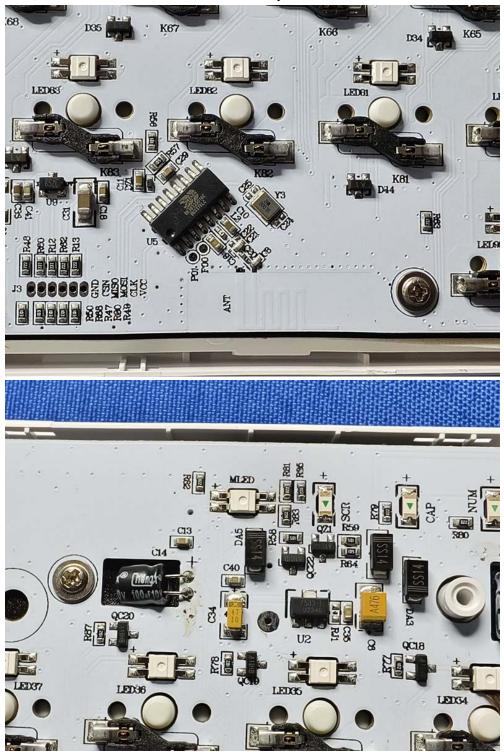


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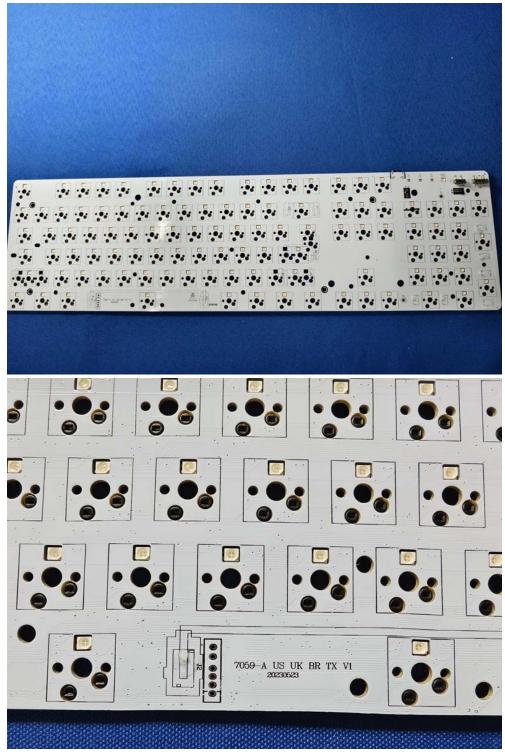


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