



Report No.: TWN2506532-01E

Applicant: Eastern Times Technology Co.,Ltd

Product: 3 MODES CONNECTION TKL GASKET MOUNTED MECHANICAL KEYBOARD

Model No.: K734SP-RGB-PRO, ET-7504, K734BWG-RGB-PRO, K734WCG-RGB-PRO

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

A handwritten signature in black ink that appears to read "Terry Tang".

Terry Tang

Manager

Dated: August 28, 2025

**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.

### **ISED —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED 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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## Test Report Conclusion

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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 States  
Registration Number: 744189  
For 3m Anechoic Chamber

### 1.2 Applicant Details

Applicant: Eastern Times Technology Co.,Ltd  
Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.

### 1.3 Description of EUT

Product: 3 MODES CONNECTION TKL GASKET MOUNTED 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: K734SP-RGB-PRO  
Additional Model Name: ET-7504, K734BWG-RGB-PRO, K734WCG-RGB-PRO  
Rating: Input: DC5V, 670mA or DC3.7V, 140mA  
Battery: DC3.7V, 4000mAh Li-ion battery  
Hardware Version: 7504-A TX V1  
Software Version: A728  
Serial No.: RDK734SP-RGB-RRO25021500647  
Operation Frequency: 2405-2475MHz  
Modulation Type: GFSK  
Channel List (Unit: MHz): 2405, 2463, 2441, 2426, 2408, 2466, 2445, 2422, 2414, 2471, 2459, 2436, 2419, 2475, 2453, 2439  
Antenna Designation: PCB antenna with gain 2.34dBi maximum (Declared by the Manufacturer)

### 1.4 Submitted Sample: 2 Samples

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1.5 Test Duration

2025-08-11 to 2025-08-28

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	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100253	2025-07-11	2026-07-10
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2025-07-11	2026-07-10
Loop Antenna	EMCO	6507	00078608	2025-07-17	2028-07-16
Spectrum	R&S	FSIQ26	100292	2025-07-11	2026-07-10
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2025-07-17	2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2025-07-17	2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2025-07-11	2026-07-10
Power sensor	Anritsu	MA2491A	32263	2025-07-11	2026-07-10
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2025-07-17	2028-07-16
9*6*6 Anechoic	--	--	N/A	2025-07-11	2028-07-10
EMI Test Receiver	RS	ESCS 30	834115/006	2025-07-11	2026-07-10
Spectrum	HP/Agilent	E4407B	MY50441392	2025-07-11	2026-07-10
Spectrum	RS	FSP	1164.4391.38	2025-07-11	2026-07-10
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2025-07-11	2026-07-10
RF Cable	Zhengdi	7m	--	2025-07-11	2026-07-10
Pre-Amplifier	Schwarebeck	BBV9743	#218	2025-07-11	2026-07-10
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2025-07-11	2026-07-10
LISN	SCHAFFNER	NNB42	00012	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10

## 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

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.203</b>	<b>Antenna Requirement</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.207</b>	<b>Conducted Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(a) &amp; 15.249(b) Limit</b>	<b>Field Strength of Fundamental</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.209</b>	<b>Radiated Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(d) Limit</b>	<b>Band Edge Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15.215(c)</b>	<b>20dB bandwidth</b>	<b>Pass</b>	<b>Complies</b>

#### 3.2 Test Standards

**FCC Part 15 Subpart C, Paragraph 15.249 and ANSI C63.10-2020+Cor.1-2023**

#### 4.0 EUT Modification

**No modification by SHENZHEN TIMEWAY TESTING LABORATORIES**

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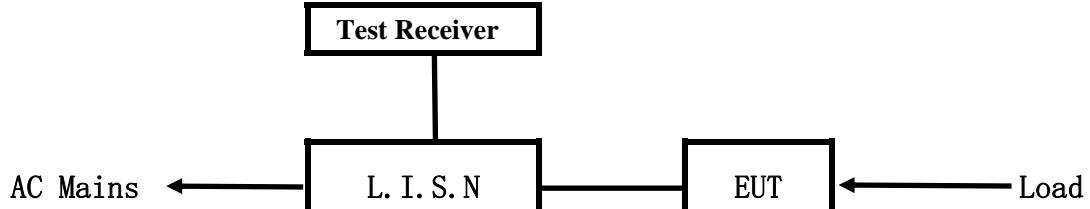
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## 5.0 Power Line Conducted Emission Test

### 5.1 Schematics of the test



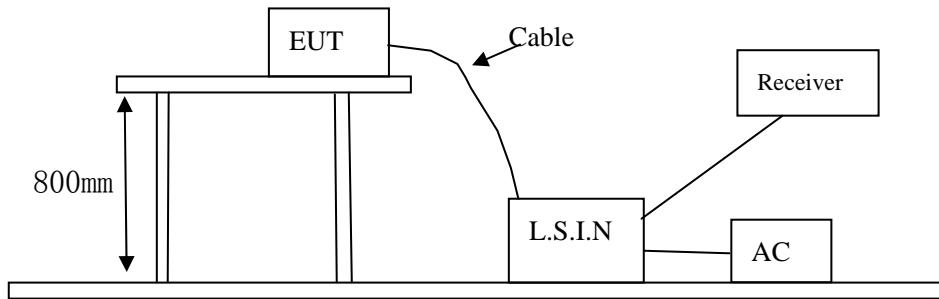
EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2020+Cor.1-2023. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2020+Cor.1-2023.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



### 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2020+Cor.1-2023. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

#### A. EUT

Device	Manufacturer	Model	FCC ID
3 MODES CONNECTION TKL GASKET MOUNTED MECHANICAL KEYBOARD	Eastern Times Technology Co.,Ltd	K734SP-RGB-PRO, ET-7504, K734BWG-RGB-PRO, K734WCG-RGB-PRO	TUVET-7504A

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	CDQ02ZM	Input: 100-240V~, 50/60Hz, 1.2A; Output: DC5V, 3A; DC9V, 3A; DC12V, 3A; DC15V, 3A; DC20V, 2.25A;
PC	ThinkPad	R4	Input: DC19.5V, 2.31A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2020+Cor.1-2023

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 (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 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:

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

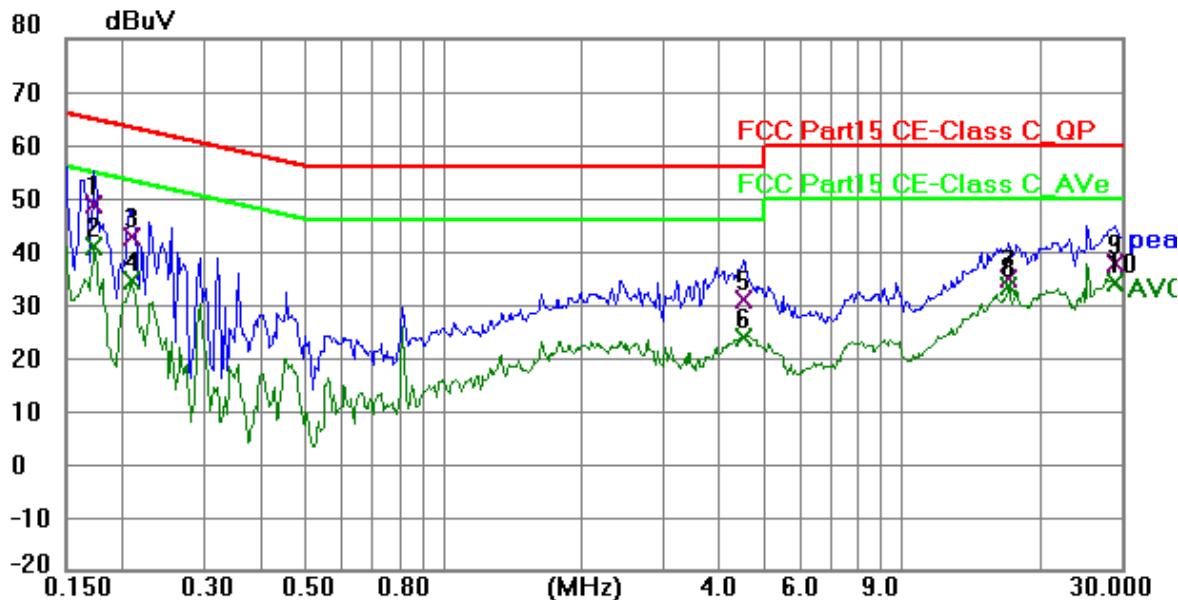
**EUT Operating Environment**

Temperature: 25°C      Humidity: 65%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging + Communication by BT**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	38.36	10.33	48.69	64.80	-16.11	QP	P
2	0.1734	30.61	10.33	40.94	54.80	-13.86	AVG	P
3	0.2085	32.42	10.32	42.74	63.26	-20.52	QP	P
4	0.2085	24.26	10.32	34.58	53.26	-18.68	AVG	P
5	4.5171	18.72	12.17	30.89	56.00	-25.11	QP	P
6	4.5171	11.75	12.17	23.92	46.00	-22.08	AVG	P
7	17.0283	19.05	15.66	34.71	60.00	-25.29	QP	P
8	17.0283	17.86	15.66	33.52	50.00	-16.48	AVG	P
9	29.1144	23.23	14.44	37.67	60.00	-22.33	QP	P
10	29.1144	19.82	14.44	34.26	50.00	-15.74	AVG	P

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

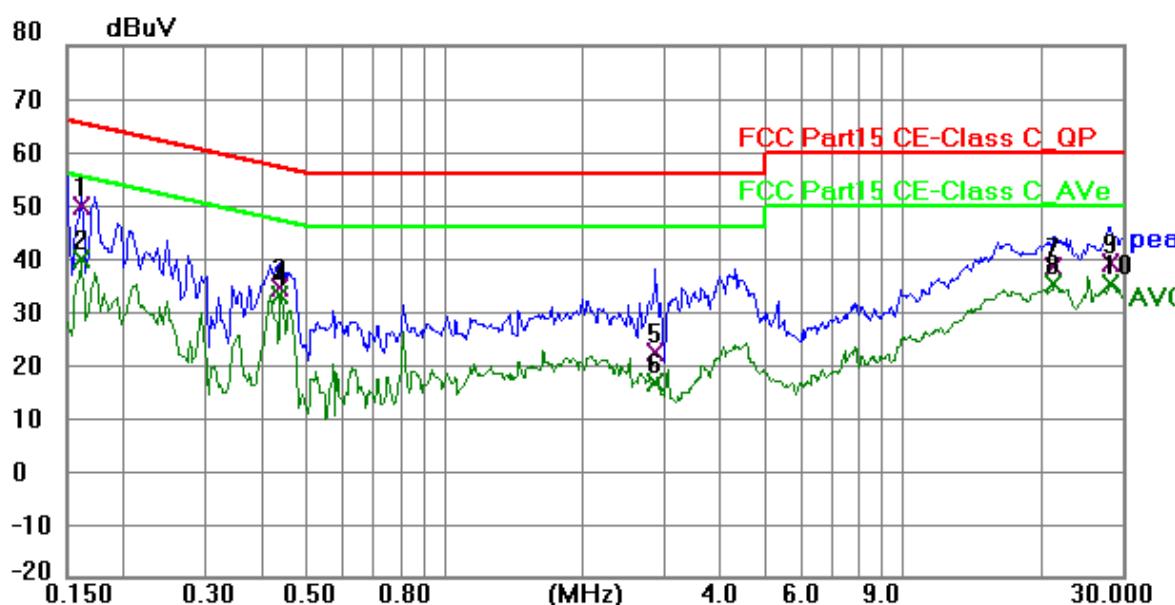
**EUT Operating Environment**

Temperature: 25°C      Humidity: 65%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging + Communication by BT**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	39.48	10.34	49.82	65.38	-15.56	QP	P
2	0.1617	29.45	10.34	39.79	55.38	-15.59	AVG	P
3	0.4386	24.06	10.38	34.44	57.09	-22.65	QP	P
4	0.4386	22.61	10.38	32.99	47.09	-14.10	AVG	P
5	2.8722	10.76	11.63	22.39	56.00	-33.61	QP	P
6	2.8722	4.80	11.63	16.43	46.00	-29.57	AVG	P
7	21.3573	22.10	16.14	38.24	60.00	-21.76	QP	P
8	21.3573	18.90	16.14	35.04	50.00	-14.96	AVG	P
9	28.4163	24.67	14.60	39.27	60.00	-20.73	QP	P
10	28.4163	20.49	14.60	35.09	50.00	-14.91	AVG	P

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## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2020+Cor.1-2023. 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 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

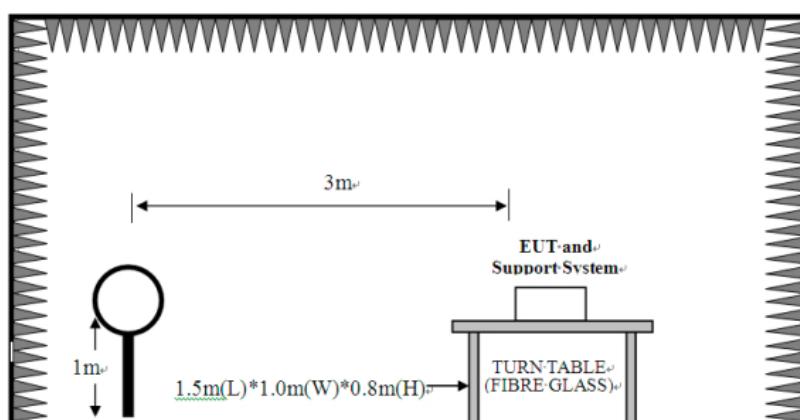
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz).  
Measurements were made at 3 meters.

- (4) The antenna height 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



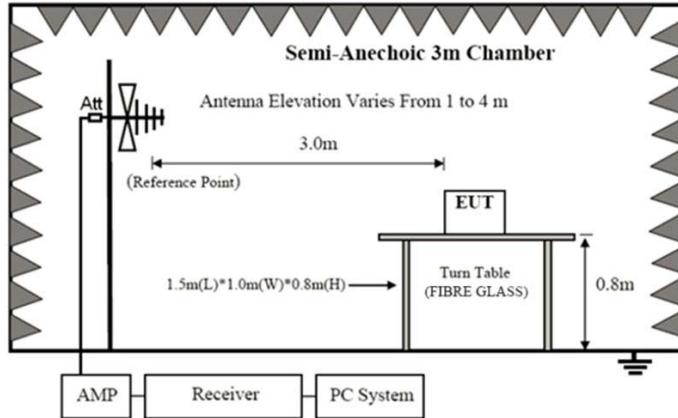
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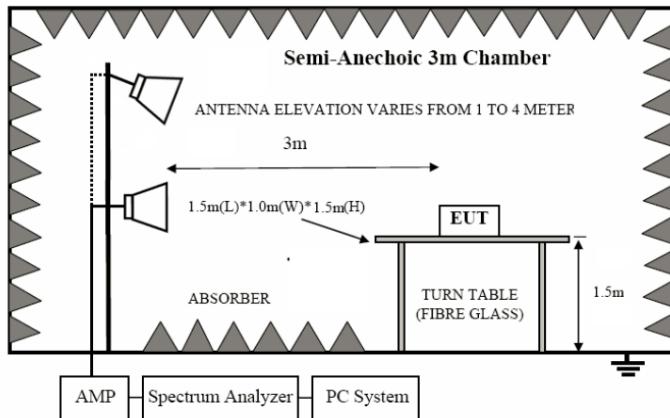
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For radiated emissions from 30MHz to1GHz



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.

#### 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:

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 § 15.209, whichever is the lesser attenuation.

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

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

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
	<b>mV/m</b>	<b>dBuV/m</b>		<b>uV/m</b>	<b>dBuV/m</b>	
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.

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

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

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

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

4. 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. Battery fully charged was used during the test.

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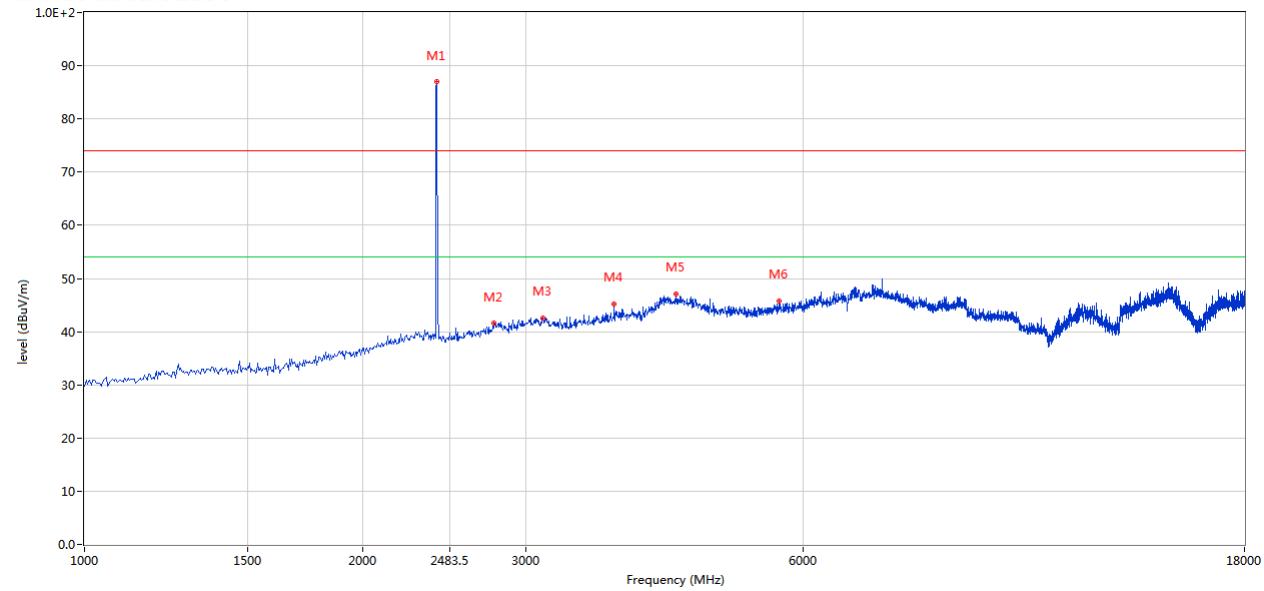
## 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2405MHz

#### Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2405	86.96	-3.57	114.0	-27.04	Peak	166.00	100	Horizontal	Pass
2	2776.056	41.66	-2.76	74.0	-32.34	Peak	279.00	100	Horizontal	Pass
3	3137.216	42.63	-2.11	74.0	-31.37	Peak	59.00	100	Horizontal	Pass
4	3740.565	45.28	-0.01	74.0	-28.72	Peak	63.00	100	Horizontal	Pass
5	4360.910	47.10	1.94	74.0	-26.90	Peak	31.00	100	Horizontal	Pass
6	5644.089	45.75	3.88	74.0	-28.25	Peak	189.00	100	Horizontal	Pass

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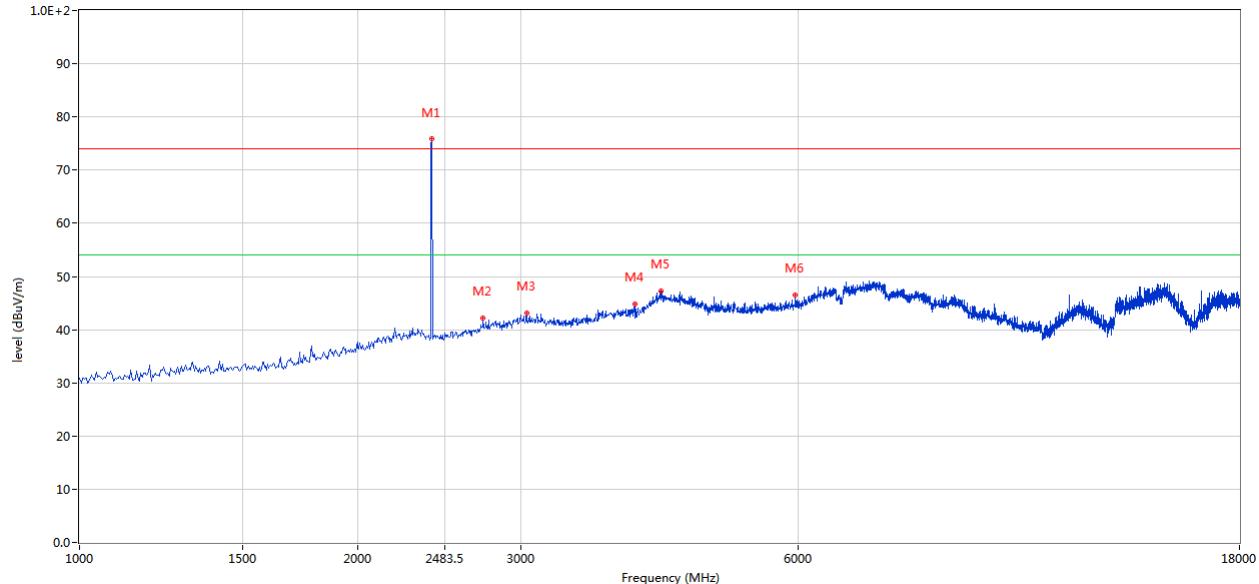
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## Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2405	75.88	-3.57	114.0	-38.12	Peak	360.00	100	Vertical	Pass
2	2733.567	42.09	-2.87	74.0	-31.91	Peak	152.00	100	Vertical	Pass
3	3047.988	43.20	-2.43	74.0	-30.80	Peak	300.00	100	Vertical	Pass
4	3987.003	44.90	1.15	74.0	-29.10	Peak	159.00	100	Vertical	Pass
5	4258.935	47.29	1.74	74.0	-26.71	Peak	346.00	100	Vertical	Pass
6	5945.764	46.49	3.80	74.0	-27.51	Peak	359.00	100	Vertical	Pass

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

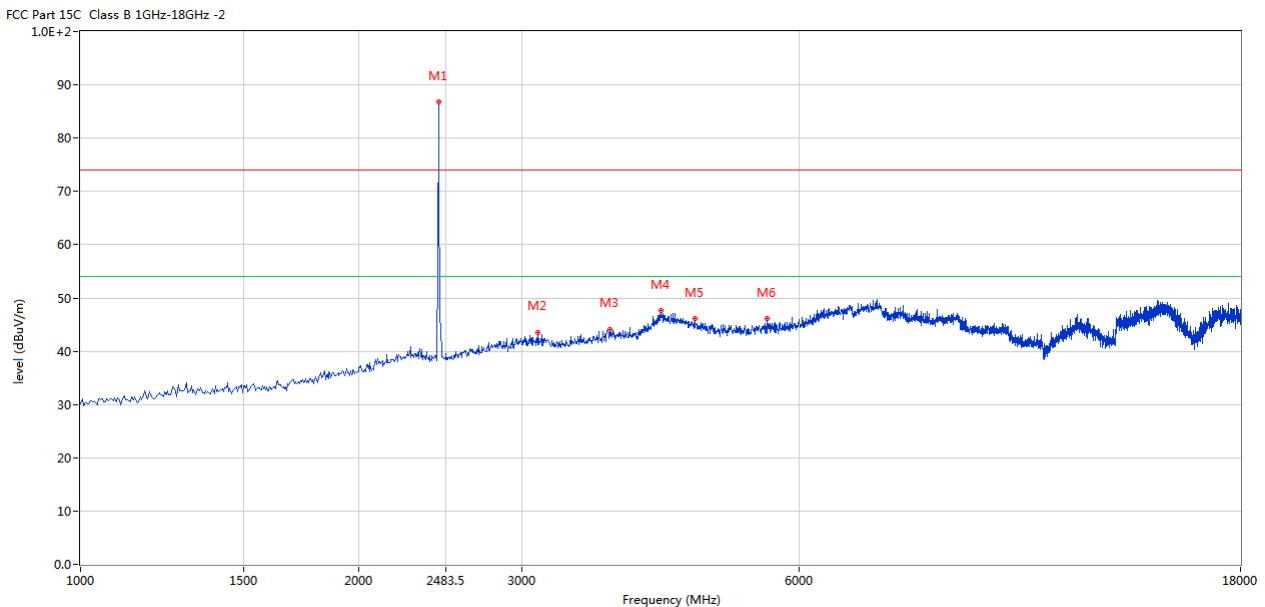
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Please refer to the following test plots for details: Middle Channel-2441MHz

### Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	86.78	-3.57	114.0	-27.22	Peak	249.00	100	Horizontal	Pass
2	3124.469	43.43	-2.14	74.0	-30.57	Peak	318.00	100	Horizontal	Pass
3	3744.814	44.06	0.01	74.0	-29.94	Peak	76.00	100	Horizontal	Pass
4	4246.188	47.59	1.71	74.0	-26.41	Peak	249.00	100	Horizontal	Pass
5	4620.095	46.11	2.63	74.0	-27.89	Peak	347.00	100	Horizontal	Pass
6	5537.866	46.06	3.92	74.0	-27.94	Peak	194.00	100	Horizontal	Pass

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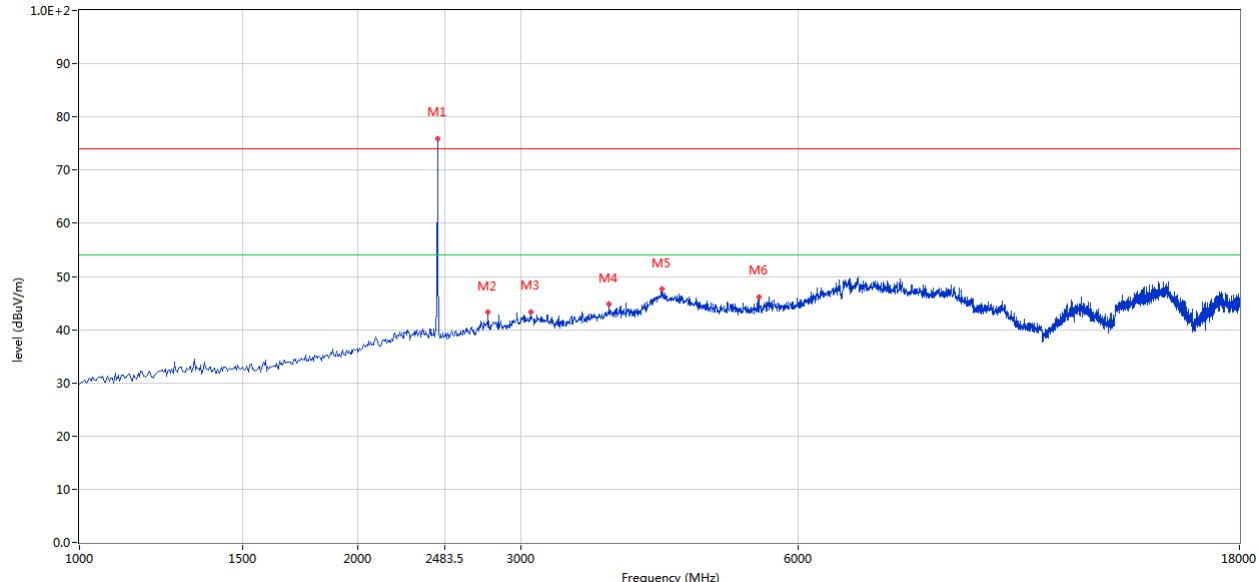
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## Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	75.81	-3.57	114.0	-38.19	Peak	82.00	100	Vertical	Pass
2	2767.558	43.38	-2.78	74.0	-30.62	Peak	86.00	100	Vertical	Pass
3	3077.731	43.35	-2.29	74.0	-30.65	Peak	335.00	100	Vertical	Pass
4	3744.814	44.89	0.01	74.0	-29.11	Peak	103.00	100	Vertical	Pass
5	4267.433	47.56	1.76	74.0	-26.44	Peak	279.00	100	Vertical	Pass
6	5431.642	46.20	3.77	74.0	-27.80	Peak	311.00	100	Vertical	Pass

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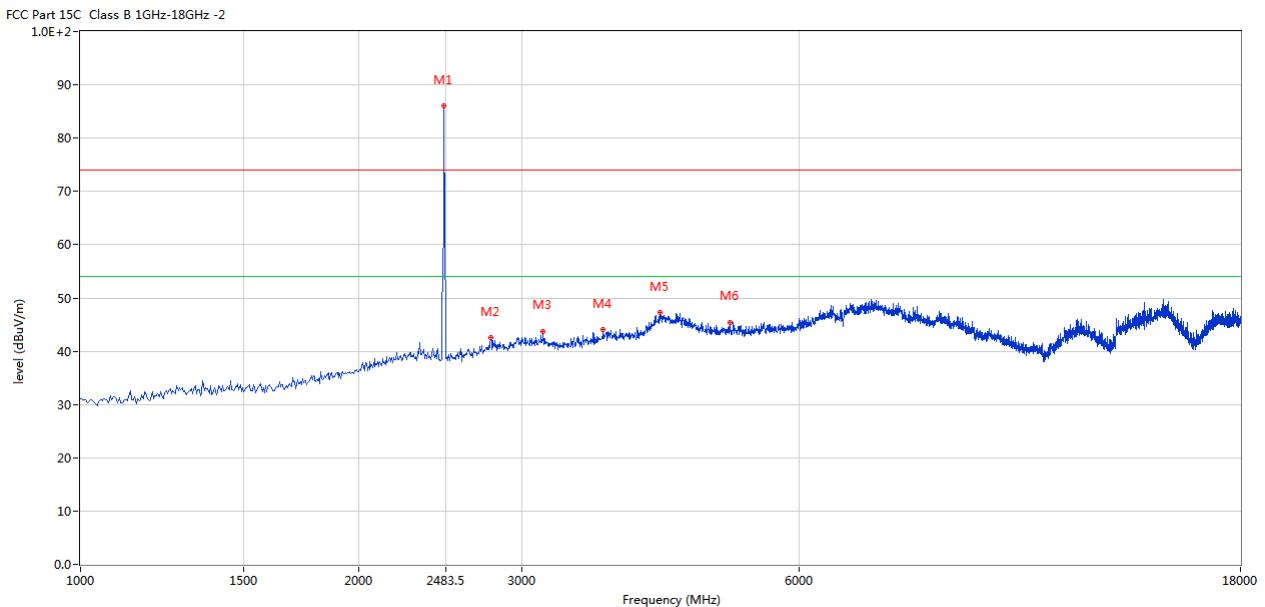
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Please refer to the following test plots for details: High Channel-2475MHz

### Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2475	86.07	-3.57	114.0	-27.93	Peak	135.00	100	Horizontal	Pass
2	2780.305	42.55	-2.75	74.0	-31.45	Peak	42.00	100	Horizontal	Pass
3	3166.958	43.70	-2.04	74.0	-30.30	Peak	323.00	100	Horizontal	Pass
4	3676.831	44.09	-0.31	74.0	-29.91	Peak	196.00	100	Horizontal	Pass
5	4237.691	47.24	1.69	74.0	-26.76	Peak	34.00	100	Horizontal	Pass
6	5044.989	45.41	3.61	74.0	-28.59	Peak	360.00	100	Horizontal	Pass

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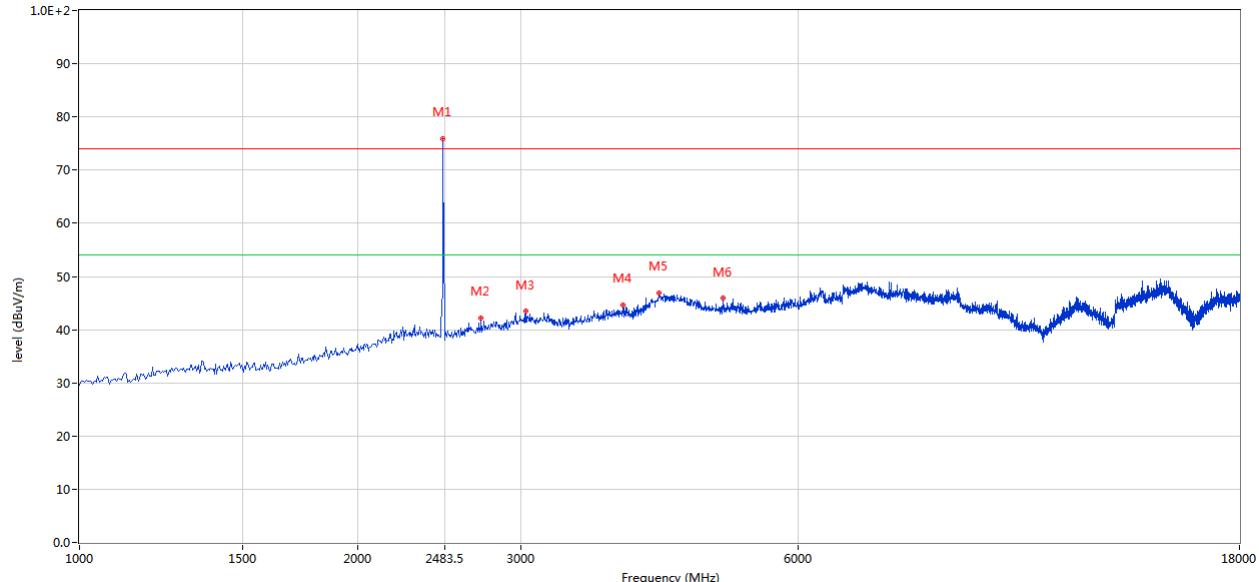
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## Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2475	75.94	-3.57	114.0	-38.06	Peak	54.00	100	Vertical	Pass
2	2720.820	42.27	-2.90	74.0	-31.73	Peak	334.00	100	Vertical	Pass
3	3039.490	43.42	-2.46	74.0	-30.58	Peak	346.00	100	Vertical	Pass
4	3876.531	44.70	0.70	74.0	-29.30	Peak	248.00	100	Vertical	Pass
5	4237.691	46.98	1.69	74.0	-27.02	Peak	346.00	100	Vertical	Pass
6	4968.508	45.86	3.38	74.0	-28.14	Peak	0.00	100	Vertical	Pass

Note:

- (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier
- (2) Margin=Emission-Limits
- (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (4) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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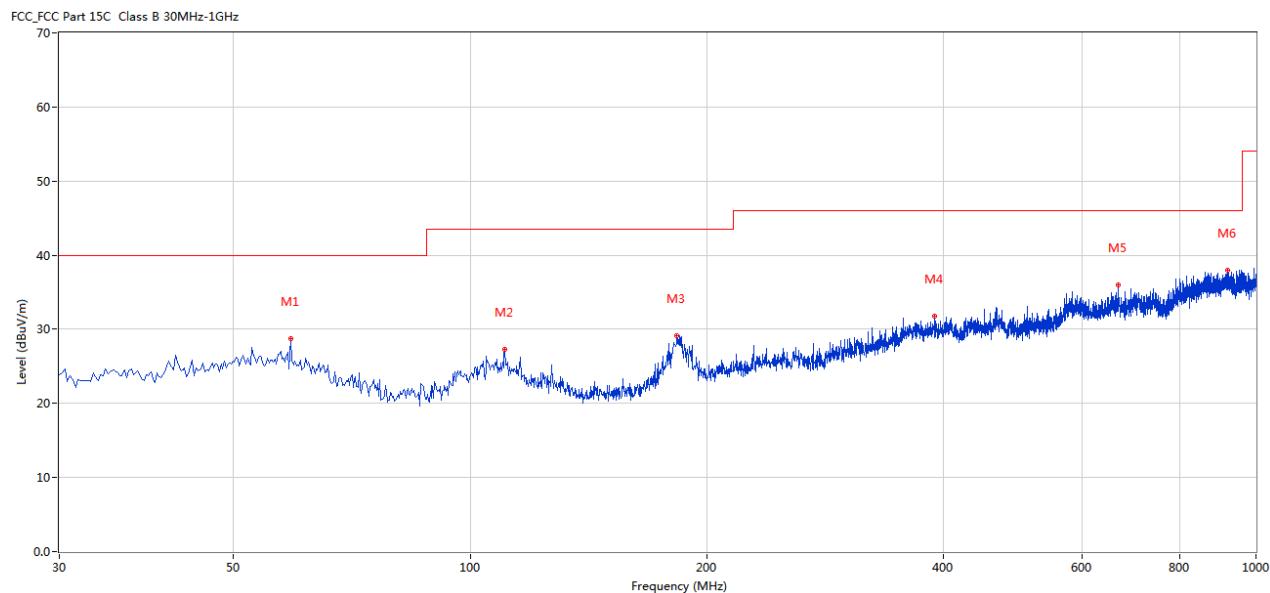
## B. General Radiated Emission Data

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

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	59.093	28.71	-5.25	40.0	11.29	Peak	146.00	100	Horizontal	Pass
2	110.732	27.26	-5.96	43.5	16.24	Peak	26.00	100	Horizontal	Pass
3	183.222	29.17	-7.35	43.5	14.33	Peak	273.00	100	Horizontal	Pass
4	390.265	31.75	-1.65	46.0	14.25	Peak	3.00	100	Horizontal	Pass
5	667.858	35.98	1.92	46.0	10.02	Peak	134.00	100	Horizontal	Pass
6	920.480	37.99	5.59	46.0	8.01	Peak	85.00	100	Horizontal	Pass

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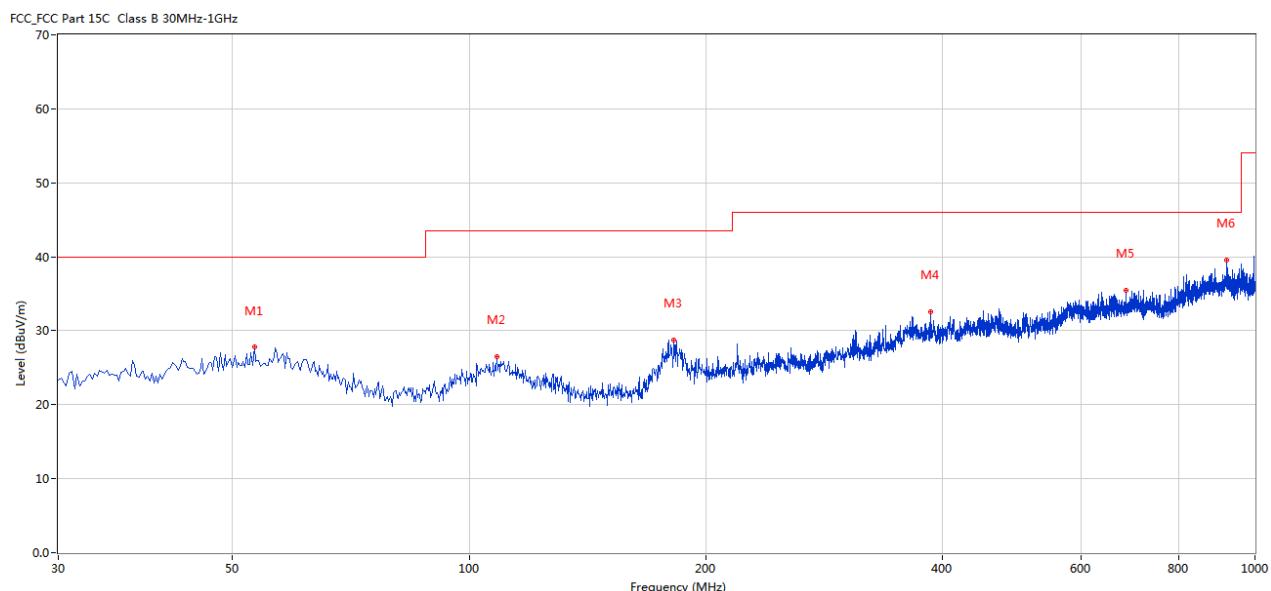


### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	53.274	27.75	-5.08	40.0	12.25	Peak	222.00	100	Vertical	Pass
2	108.550	26.50	-5.98	43.5	17.00	Peak	174.00	100	Vertical	Pass
3	182.252	28.75	-7.51	43.5	14.75	Peak	174.00	100	Vertical	Pass
4	386.628	32.50	-1.89	46.0	13.50	Peak	263.00	100	Vertical	Pass
5	686.041	35.43	1.92	46.0	10.57	Peak	113.00	100	Vertical	Pass
6	919.268	39.57	5.44	46.0	6.43	Peak	150.00	100	Vertical	Pass

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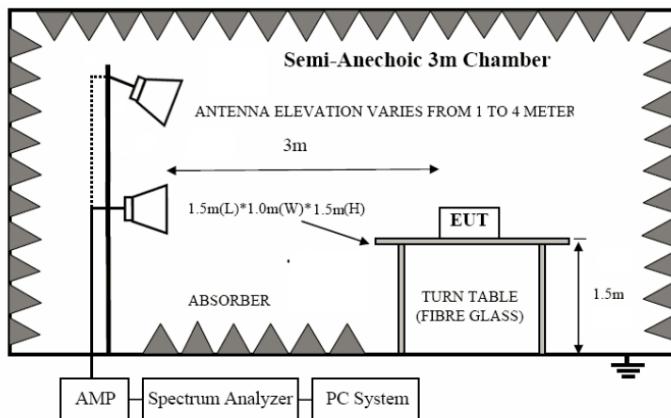


## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2020+Cor.1-2023. 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:	3 MODES CONNECTION TKL GASKET MOUNTED MECHANICAL KEYBOARD	Polarity	Horizontal							
Mode	Keeping Transmitting	Test Voltage	DC3.7V							
Temperature	24 deg. C,	Humidity	56% RH							
Test Result:	Pass	--	--							
FCC Part 15C Class B 1GHz-18GHz -2 										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2405.061	85.51	-3.57	74.0	11.51	Peak	243.00	100	Horizontal	N/A
2	2400.000	36.75	-3.57	74.0	-37.25	Peak	87.44	100	Horizontal	Pass
3	2390.000	36.87	-3.53	74.0	-37.13	Peak	129.00	100	Horizontal	Pass

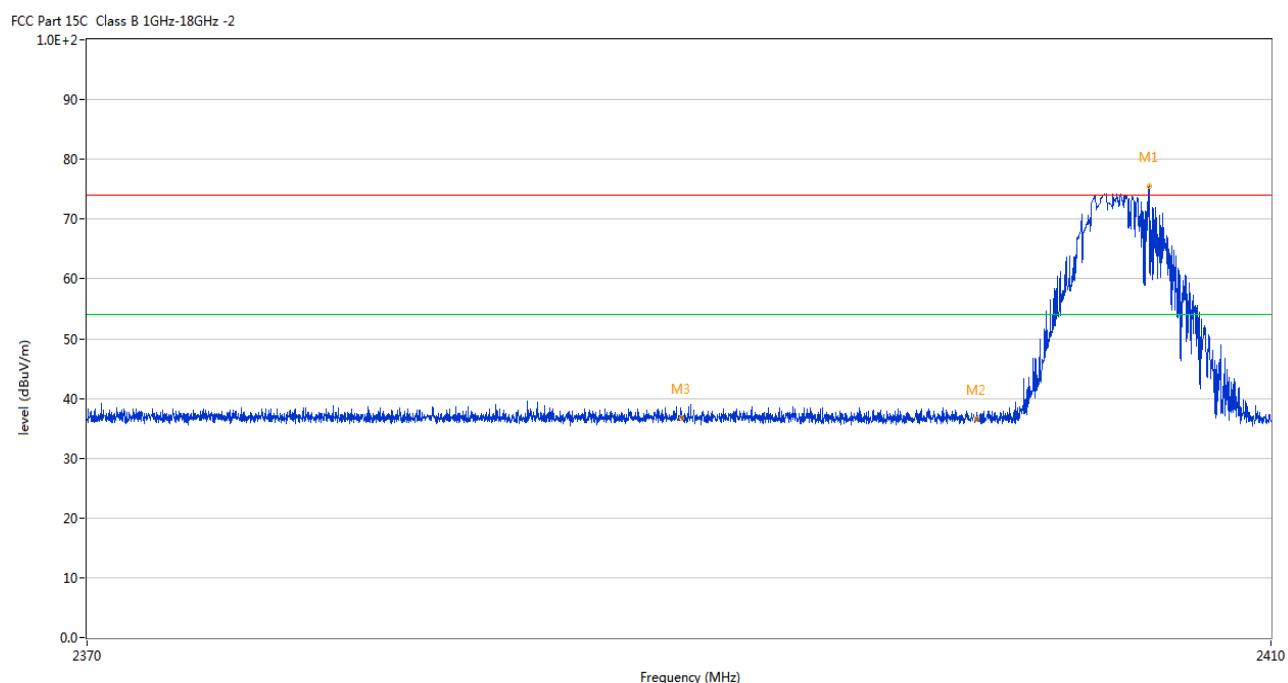
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Product:	3 MODES CONNECTION TKL GASKET MOUNTED MECHANICAL KEYBOARD	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2405.851	75.47	-3.57	74.0	1.47	Peak	27.00	100	Vertical	N/A
2	2400.000	36.46	-3.57	74.0	-37.54	Peak	41.22	100	Vertical	Pass
3	2390.000	36.65	-3.53	74.0	-37.35	Peak	155.00	100	Vertical	Pass

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Product:	3 MODES CONNECTION TKL GASKET MOUNTED MECHANICAL KEYBOARD	Polarity	Horizontal							
Mode	Keeping Transmitting	Test Voltage	DC3.7V							
Temperature	24 deg. C,	Humidity	56% RH							
Test Result:	Pass	--	--							
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2474.551	85.81	-3.57	74.0	11.81	Peak	244.00	100	Horizontal	N/A
2	2483.500	37.08	-3.57	74.0	-36.92	Peak	174.71	100	Horizontal	Pass

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Product:	3 MODES CONNECTION TKL GASKET MOUNTED MECHANICAL KEYBOARD		Detector	Vertical						
Mode	Keeping Transmitting		Test Voltage	DC3.7V						
Temperature	24 deg. C,		Humidity	56% RH						
Test Result:	Pass		--	--						
FCC Part 15C Class B 1GHz-18GHz -2 										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2474.319	75.61	-3.57	74.0	1.61	Peak	297.00	100	Vertical	N/A
2	2483.500	37.02	-3.57	74.0	-36.98	Peak	232.57	100	Vertical	Pass

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

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## 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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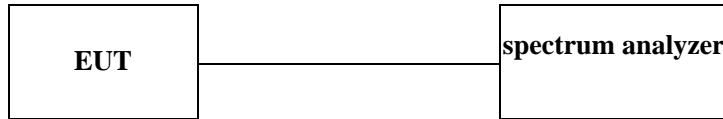
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## 9.0 20dB Bandwidth Measurement

### Test Configuration



### Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

### Limit

N/A

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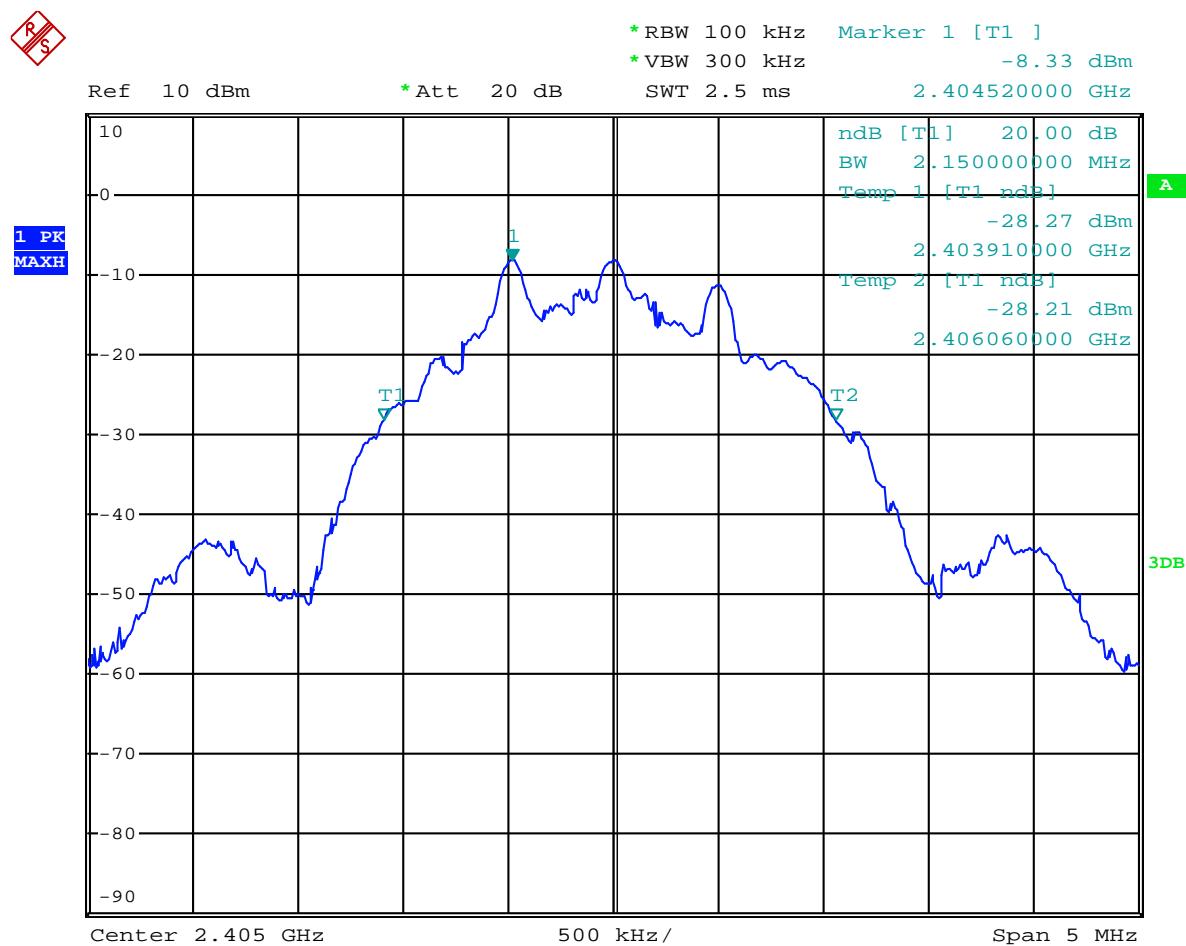
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## Test Result

Product:	3 MODES CONNECTION TKL GASKET MOUNTED MECHANICAL KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.150MHz	--	--



Date: 15.AUG.2025 09:39:54

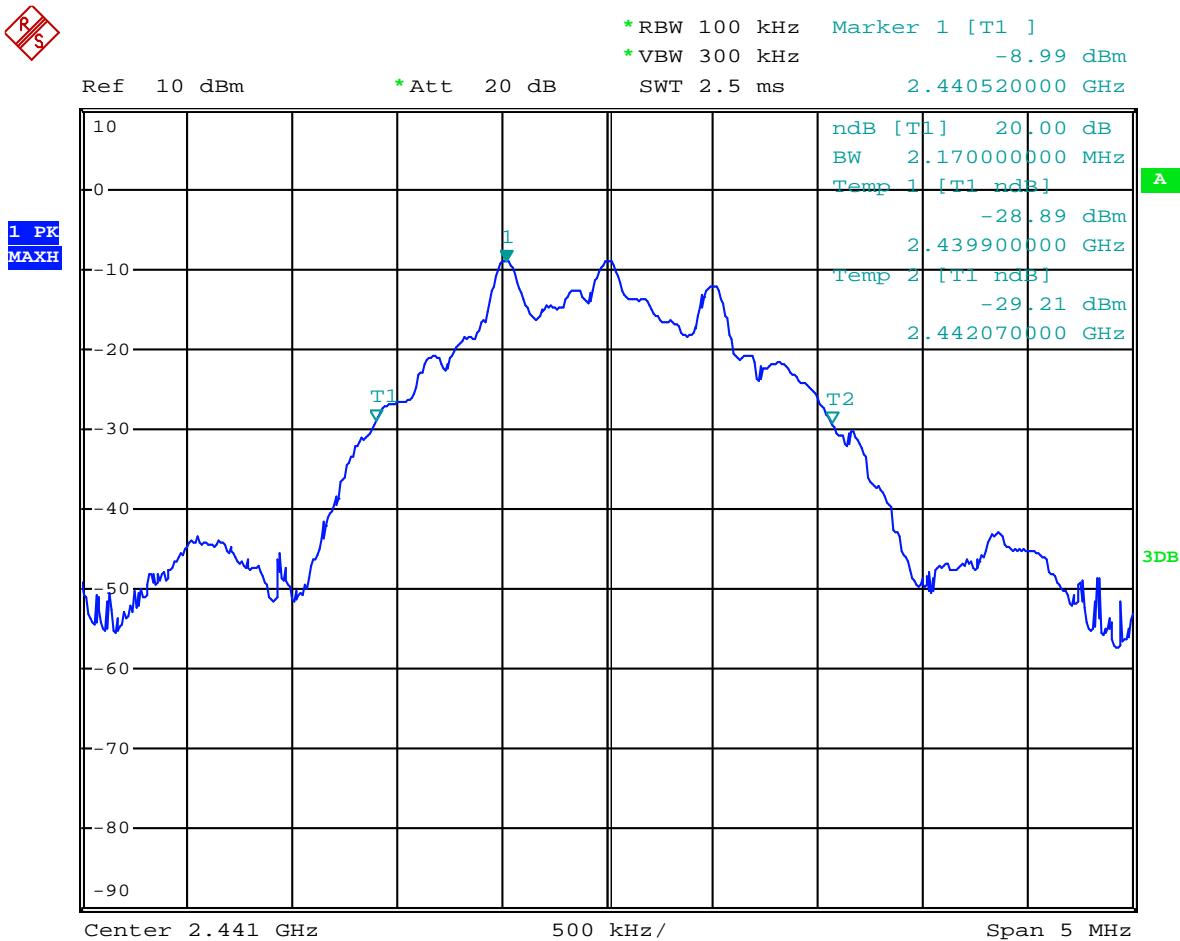
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Product:	3 MODES CONNECTION TKL GASKET MOUNTED MECHANICAL KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.170MHz	--	--



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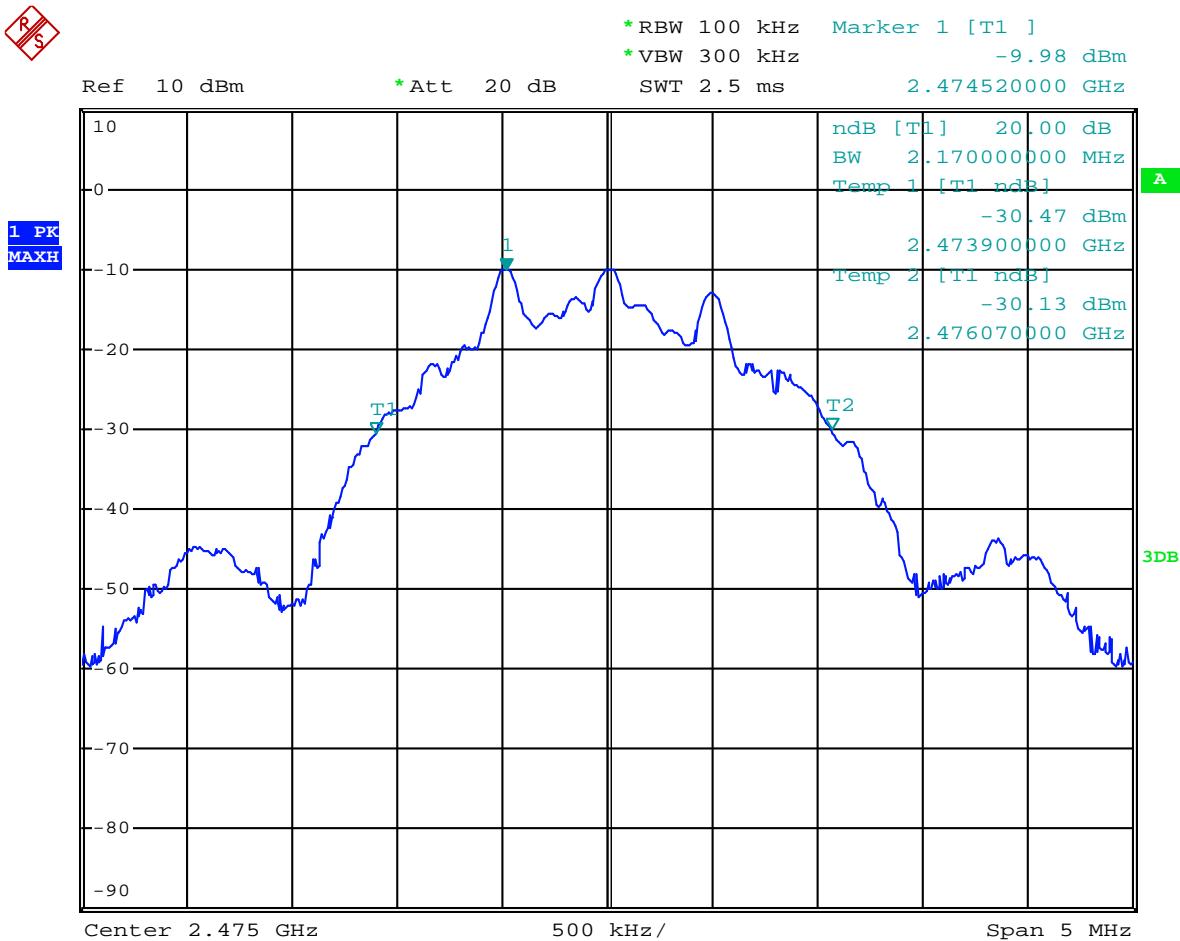
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Product:	3 MODES CONNECTION TKL GASKET MOUNTED MECHANICAL KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.170MHz	--	--



Date: 15.AUG.2025 09:36:07

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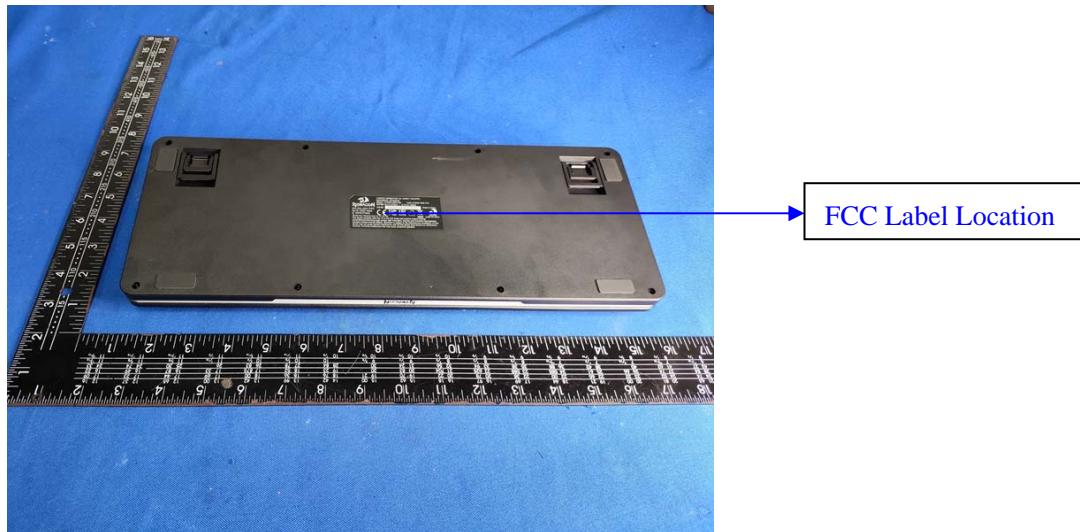
## 10.0 FCC ID Label

**FCC ID: TUVET-7504A**

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



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## 11.2 Photographs – EUT

Outside View-Keyboard



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Outside View-Keyboard



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Outside View-Keyboard



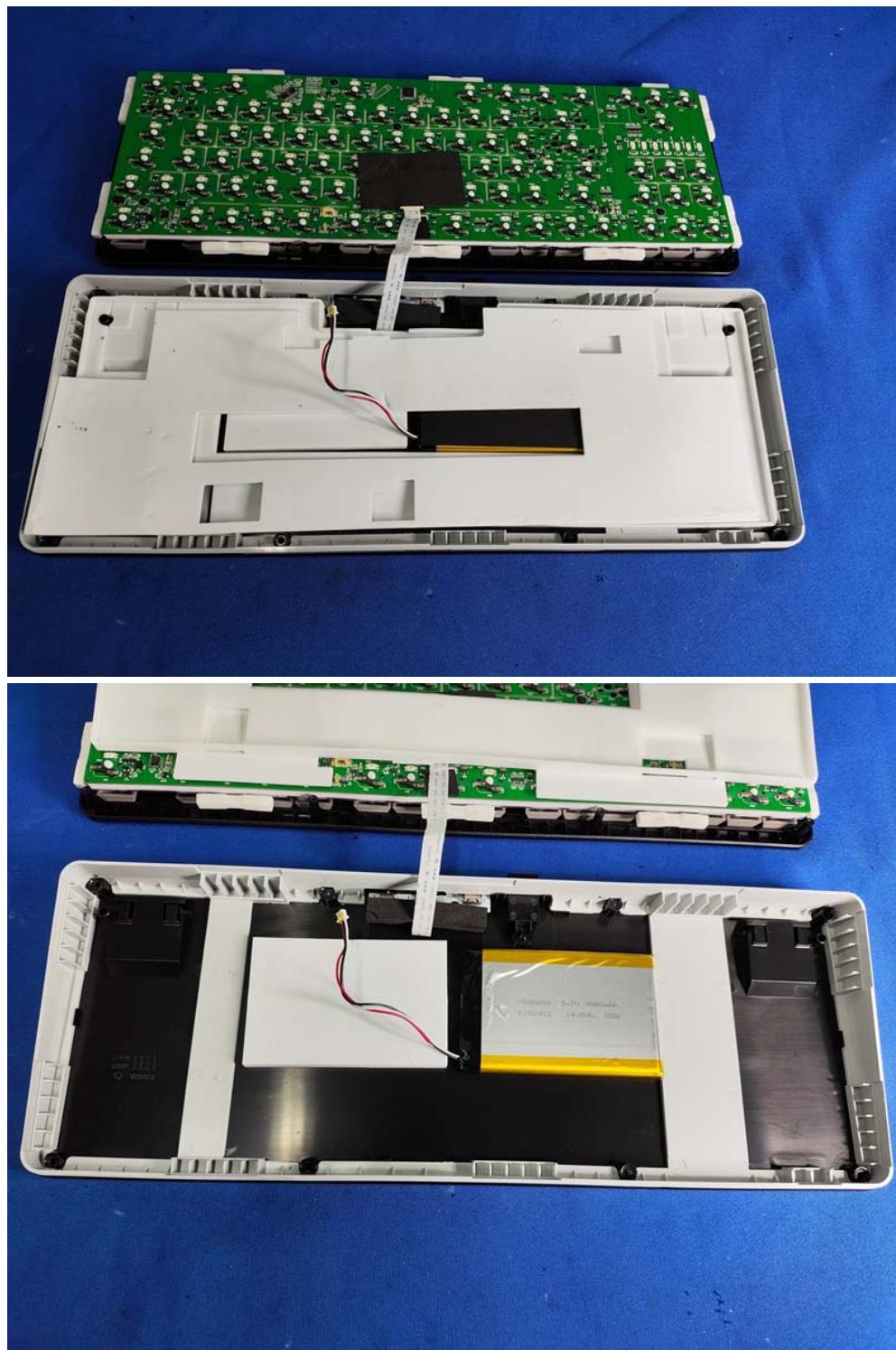
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Inside View-Keyboard



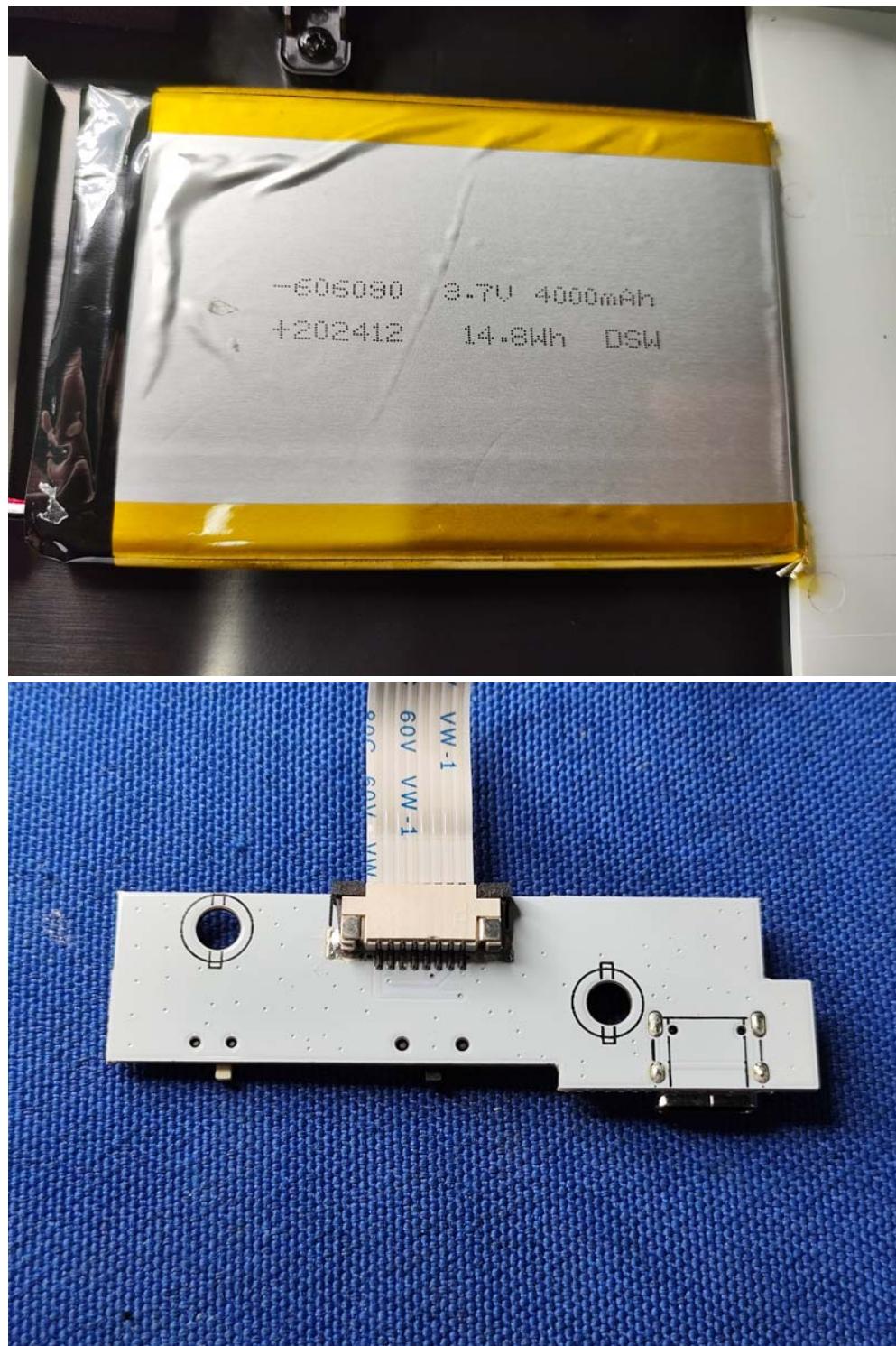
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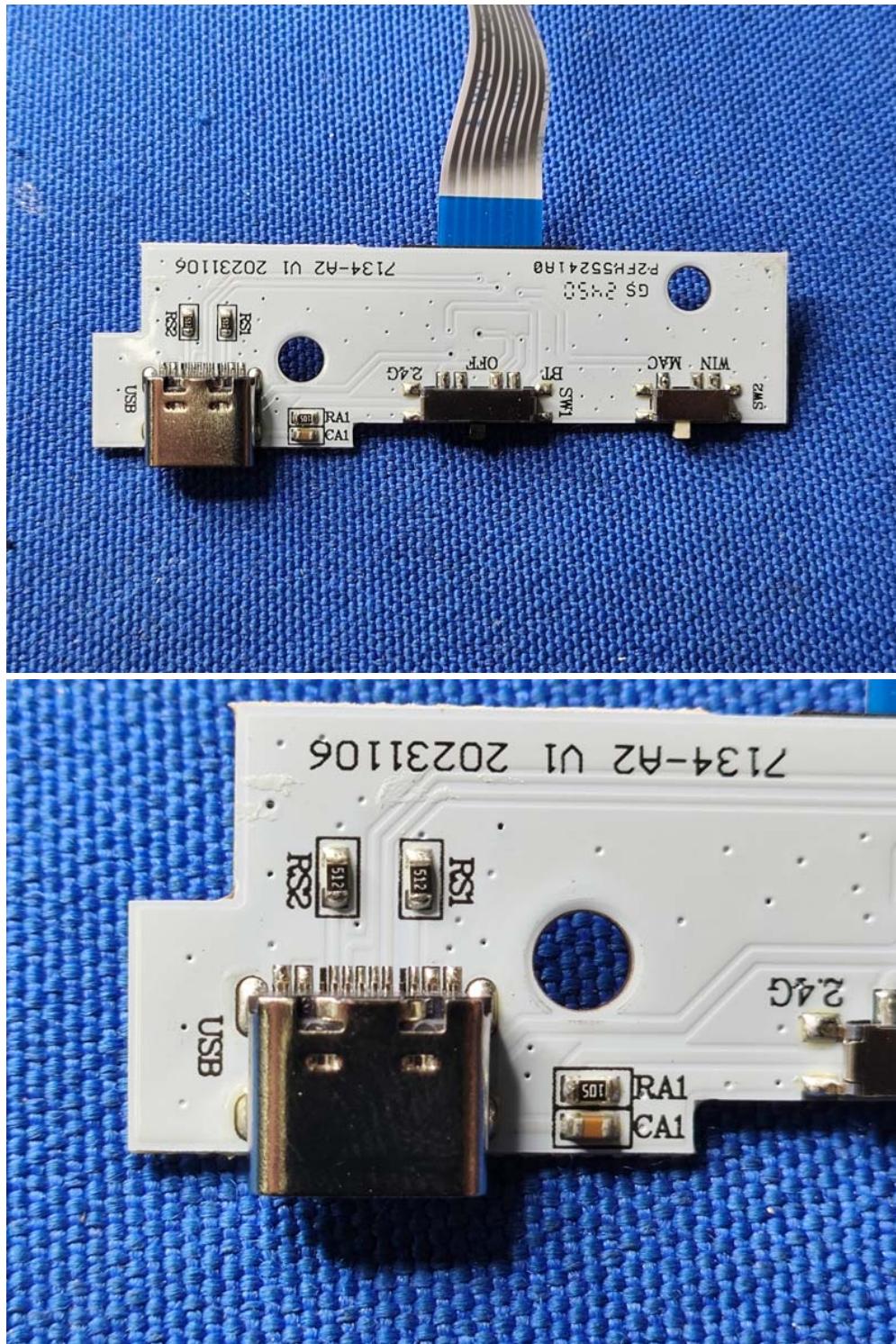
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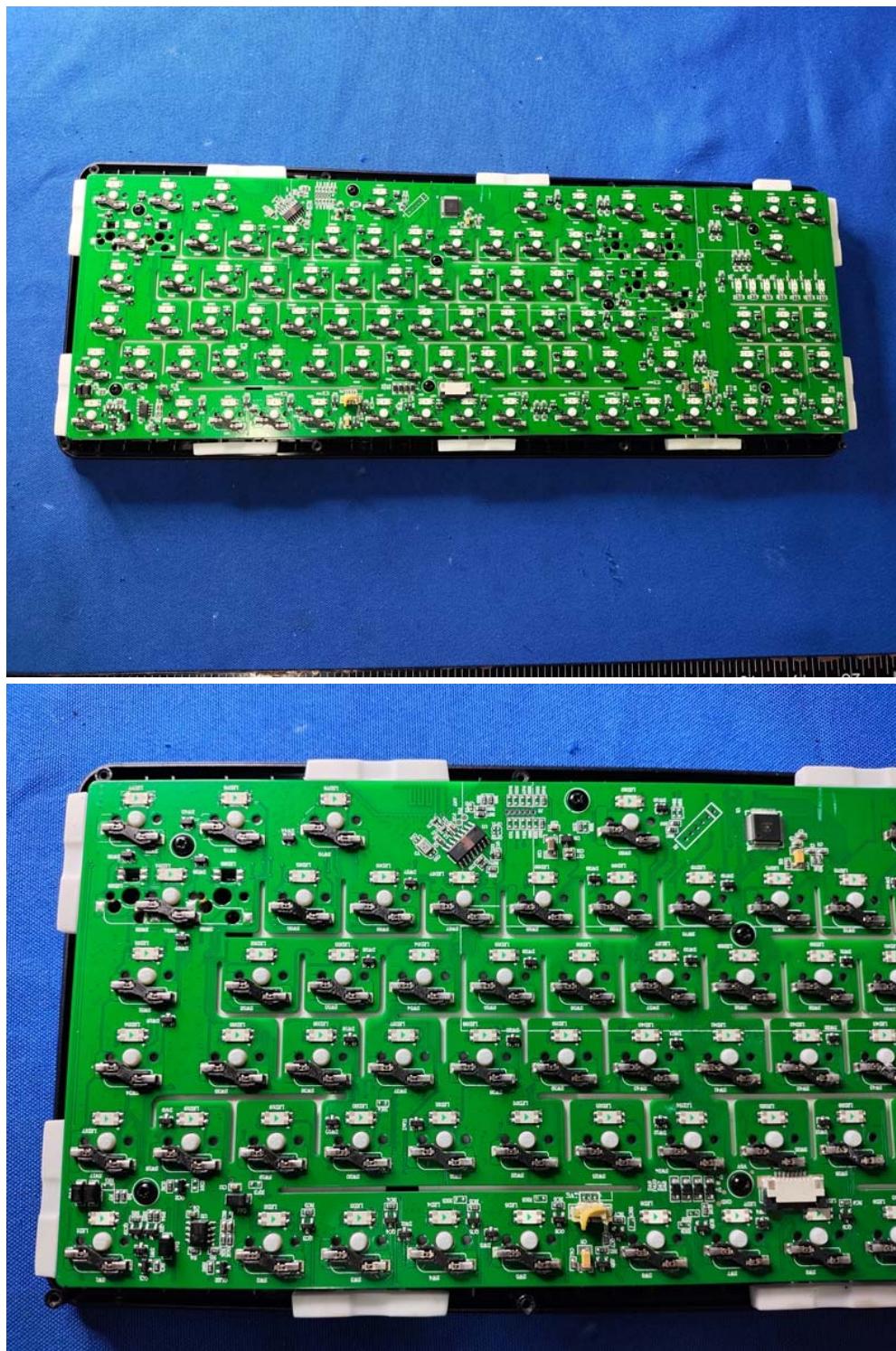
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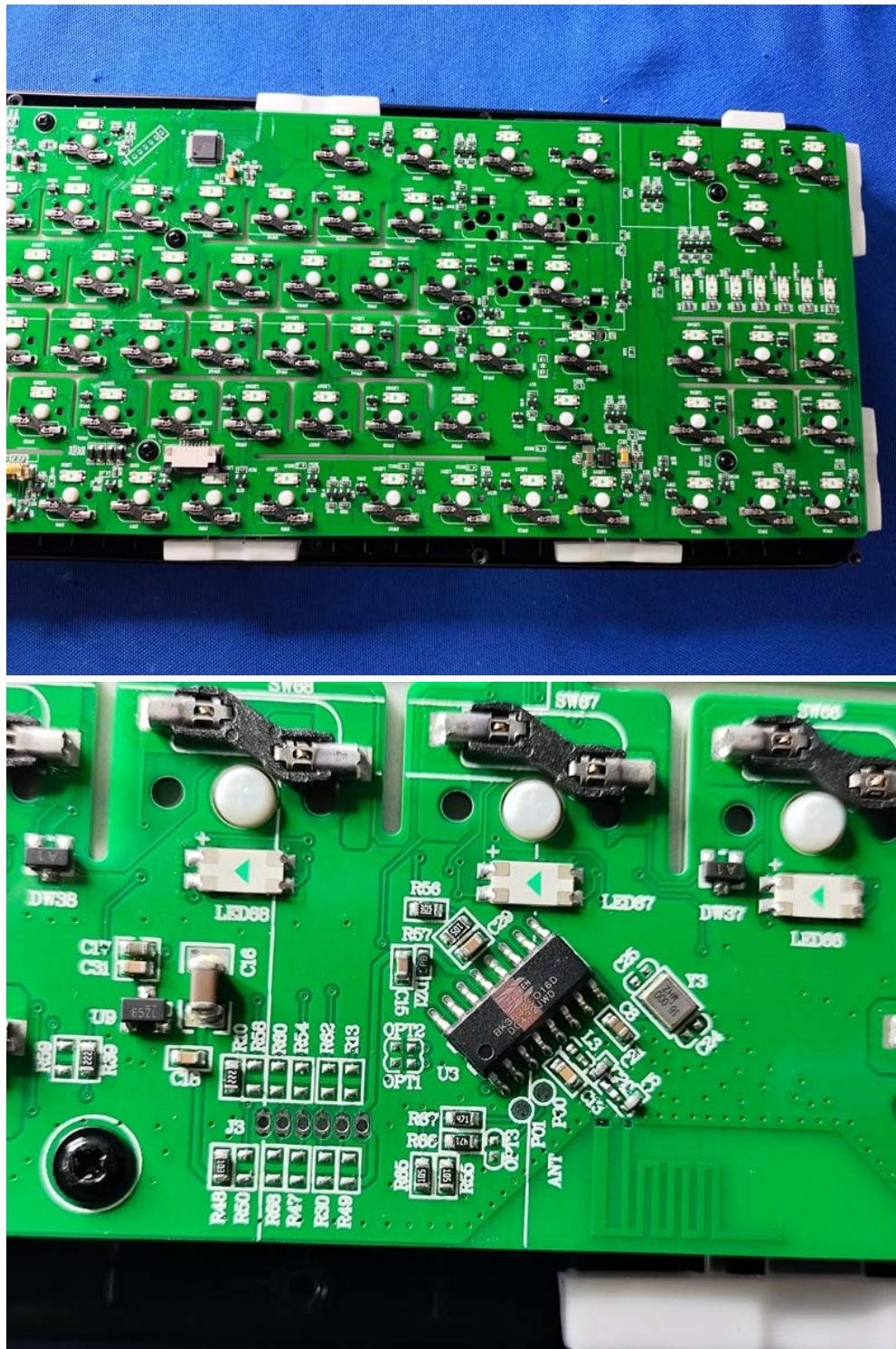
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## Inside View-Keyboard



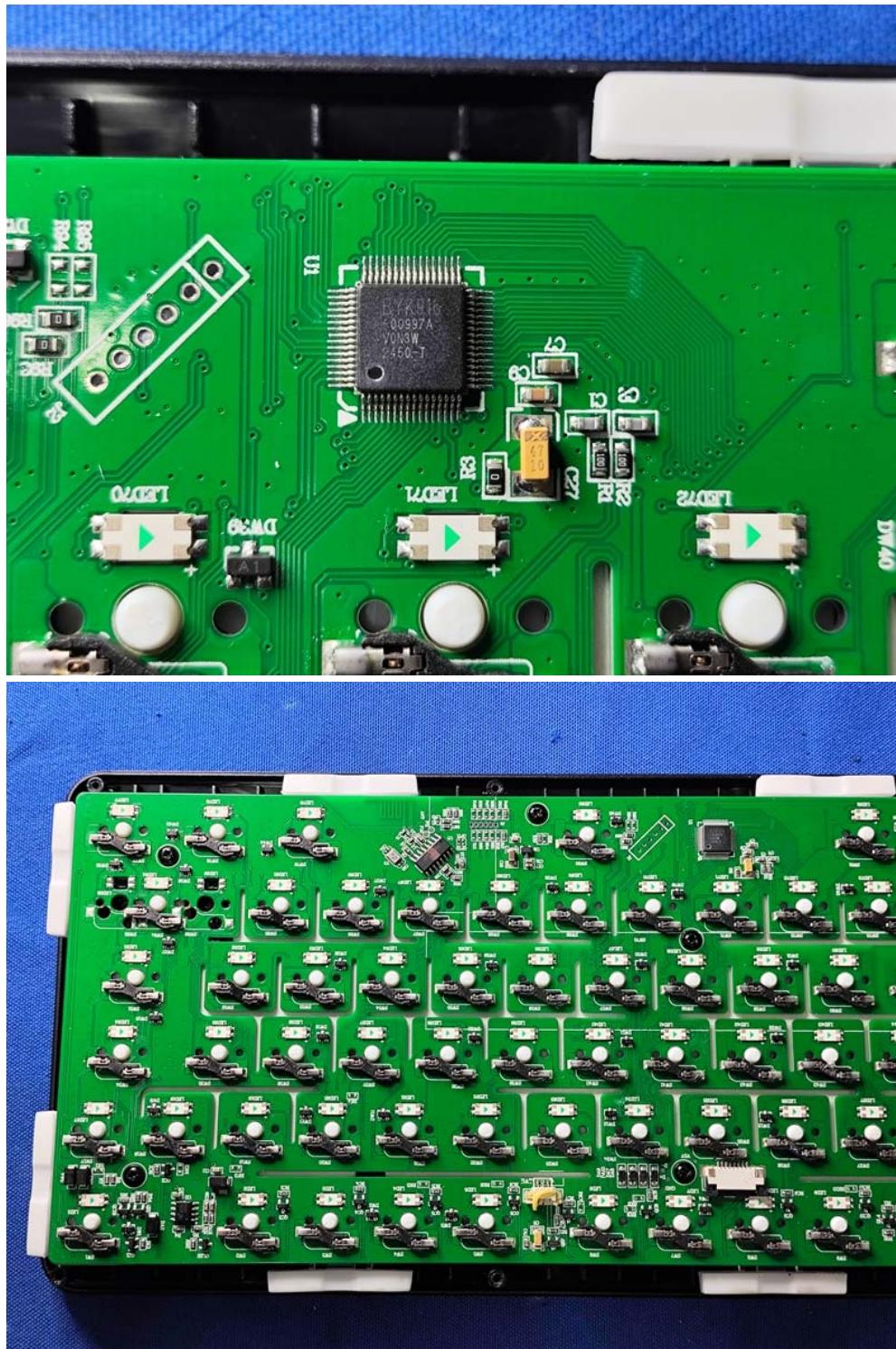
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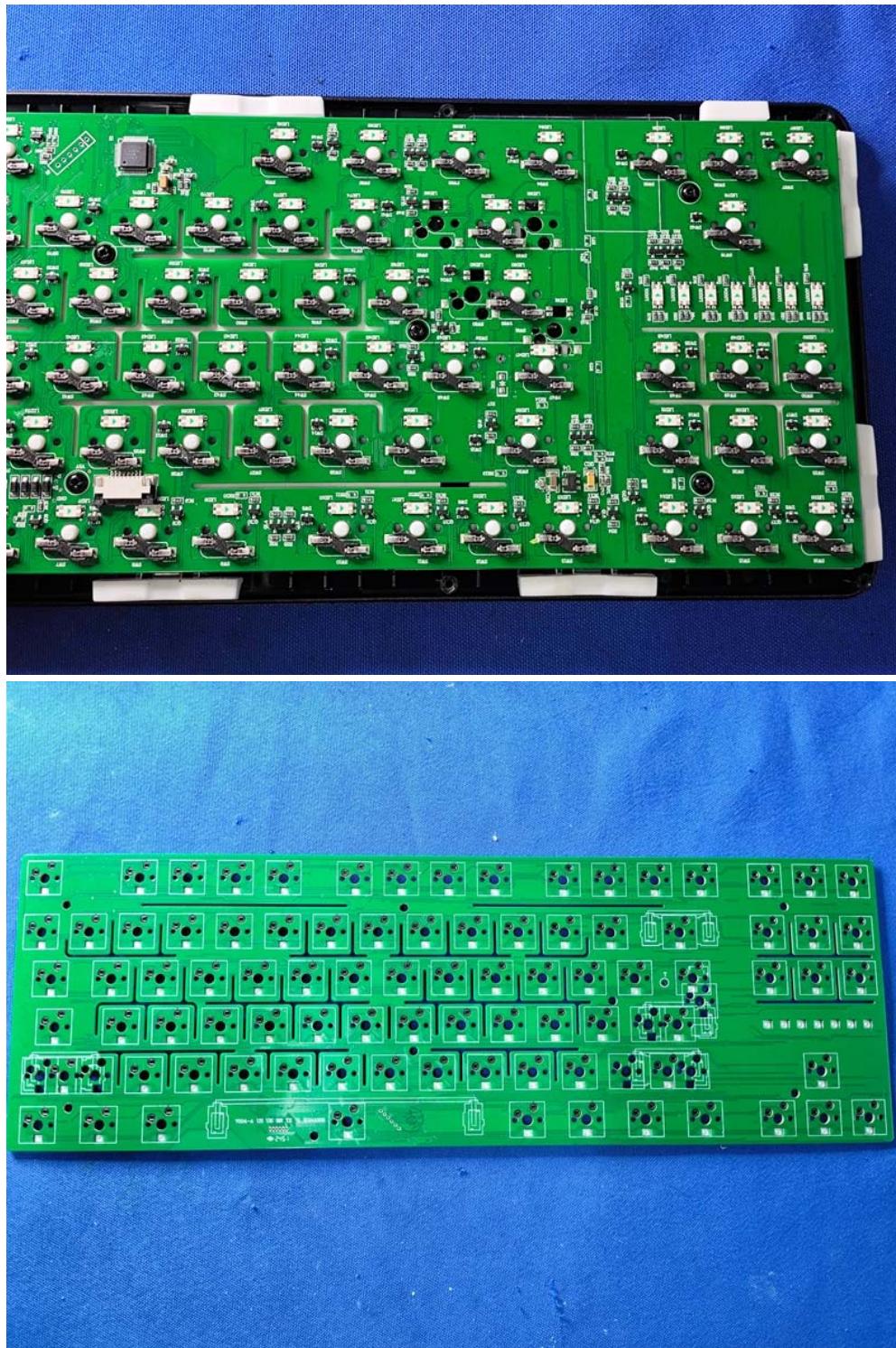
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