

Applicant: Eastern Times Technology Co.,Ltd

Product: 3 MODES CONNECTION BACKLIGHTING MECHANICAL

**KEYBOARD** 

Model No.: K728WBB-RGB-PRO, ET-7386

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 Tong

Terry Tang

Manager

Dated: September 11, 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

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Date: 2025-09-11



# **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

Date: 2025-09-11



# 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 BACKLIGHTING 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: K728WBB-RGB-PRO

Additional Model Name ET-7386

Rating: Input: DC5V, 670mA or DC3.7V, 140mA

Battery: DC3.7V, 4000mAh Li-ion battery

Hardware Version: 7386-A TX V1

Software Version: 72DF

Serial No.: RDK728WBB-RGB-PRO25012100029

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

# 1.5 Test Duration

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# 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

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

The EUT has been	tested accord	ling to the foll	owing specifications:
			o

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
FCC Part 15.215(c)	20dB bandwidth	Pass	Complies

### 3.2 Test Standards

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

# 4.0 EUT Modification

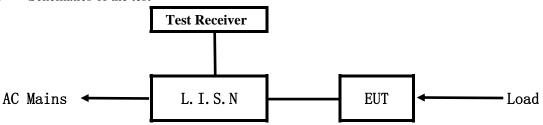
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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### 5.0 Power Line Conducted Emission Test

# 5.1 Schematics of the test

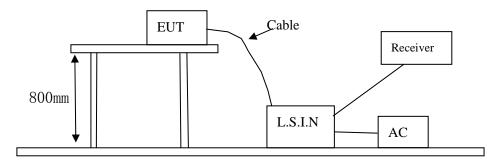


**EUT: Equipment Under Test** 

# 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			
BACKLIGHTING	Eastern Times Technology	K728WBB-RGB-PRO,	TIMET 7206 A
MECHANICAL	Co.,Ltd	ET-7386	TUVET-7386A
KEYBOARD			

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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	Limits (dB $\mu$ 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 ~ 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)

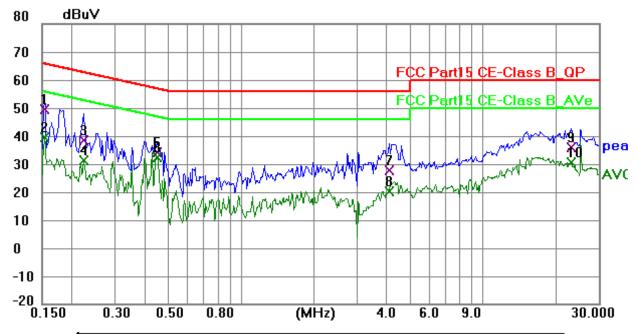
**EUT Operating Environment** 

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

**EUT set Condition: Charging + Keep Transmitting** 

**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	0.1539	39.12	10.34	49.46	65.79	-16.33	QP	Р
2	0.1539	29.29	10.34	39.63	55.79	-16.16	AVG	Р
3	0.2241	28.22	10.33	38.55	62.67	-24.12	QP	Р
4	0.2241	20.90	10.33	31.23	52.67	-21.44	AVG	Р
5	0.4503	23.75	10.39	34.14	56.87	-22.73	QP	Р
6	0.4503	21.79	10.39	32.18	46.87	-14.69	AVG	Р
7	4.0881	15.57	12.05	27.62	56.00	-28.38	QP	Р
8	4.0881	8.22	12.05	20.27	46.00	-25.73	AVG	Р
9	23.1981	20.22	15.74	35.96	60.00	-24.04	QP	Р
10	23.1981	14.72	15.74	30.46	50.00	-19.54	AVG	Р

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

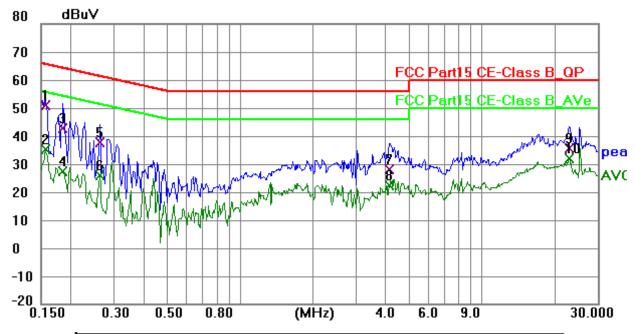
**EUT Operating Environment** 

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

**EUT set Condition: Charging + Keep Transmitting** 

**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	0.1578	40.67	10.34	51.01	65.58	-14.57	QP	Р
2	0.1578	24.70	10.34	35.04	55.58	-20.54	AVG	Р
3	0.1850	32.52	10.33	42.85	64.26	-21.41	QP	Р
4	0.1850	16.87	10.33	27.20	54.26	-27.06	AVG	Р
5	0.2631	27.27	10.34	37.61	61.33	-23.72	QP	Р
6	0.2631	15.41	10.34	25.75	51.33	-25.58	AVG	Ъ
7	4.1271	15.98	12.06	28.04	56.00	-27.96	QP	Ъ
8	4.1271	10.25	12.06	22.31	46.00	-23.69	AVG	Р
9	22.8822	19.61	15.81	35.42	60.00	-24.58	QP	Р
10	22.8822	16.15	15.81	31.96	50.00	-18.04	AVG	Р

Date: 2025-09-11



### **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 C63.10-2020+Cor.1-2023.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

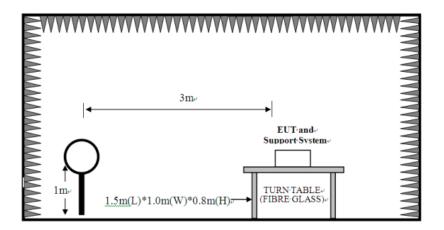
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
ADOVE IGHZ	Peak	1MHz	10Hz	Average

(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**

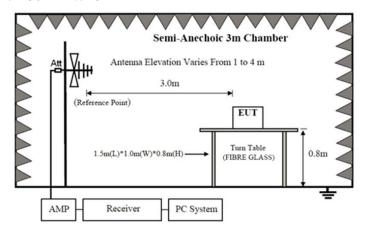
For radiated emissions from 9kHz to 30MHz



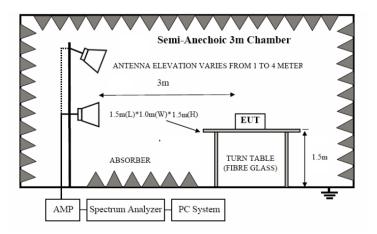
Date: 2025-09-11



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.

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

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field Strength of Harmonics (3m)			
(MHz)	mV/m	dBuV/m		uV/m	dBuV/m		
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)	

Note: 1. RF Field Strength  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$ 

- 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 µ 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  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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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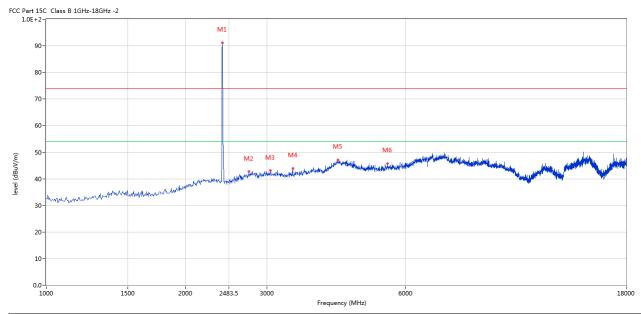


# 6.5 Test result

# A Fundamental & Harmonics Radiated Emission Data

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

### Horizontal



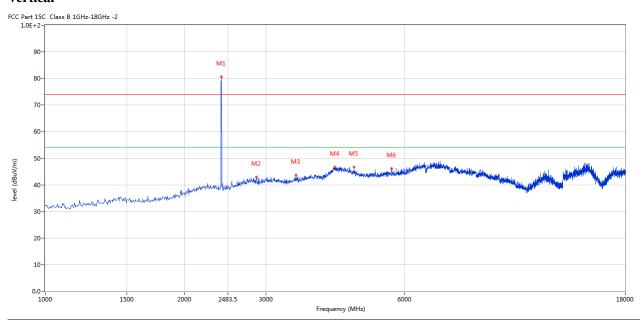
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2405	91.18	-3.57	114.0	-22.82	Peak	293.00	100	Horizontal	Pass
2	2746.313	42.74	-2.84	74.0	-31.26	Peak	334.00	100	Horizontal	Pass
3	3056.486	43.07	-2.39	74.0	-30.93	Peak	115.00	100	Horizontal	Pass
4	3417.646	43.80	-1.67	74.0	-30.20	Peak	1.00	100	Horizontal	Pass
5	4280.180	47.06	1.79	74.0	-26.94	Peak	1.00	100	Horizontal	Pass
6	5474.131	45.79	3.86	74.0	-28.21	Peak	236.00	100	Horizontal	Pass

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# Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2405	80.54	-3.57	114.0	-33.46	Peak	279.00	100	Vertical	Pass
2	2861.035	43.00	-2.68	74.0	-31.00	Peak	228.00	100	Vertical	Pass
3	3485.629	43.70	-1.19	74.0	-30.30	Peak	214.00	100	Vertical	Pass
4	4241.940	46.78	1.70	74.0	-27.22	Peak	360.00	100	Vertical	Pass
5	4662.584	46.67	2.76	74.0	-27.33	Peak	293.00	100	Vertical	Pass
6	5618.595	46.21	3.91	74.0	-27.79	Peak	66.00	100	Vertical	Pass

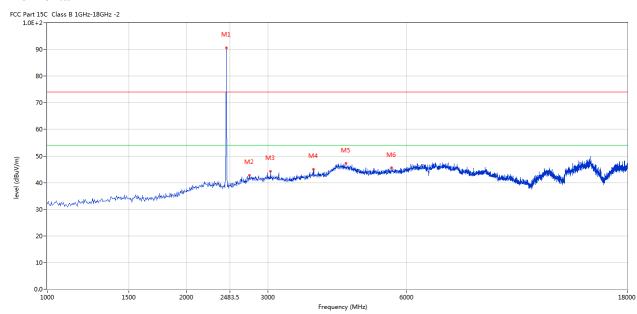
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Please refer to the following test plots for details: Middle Channel-2441MHz

### **Horizontal**



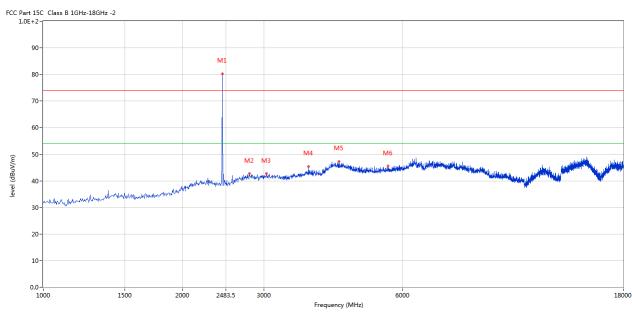
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2441	90.60	-3.57	114.0	-23.40	Peak	88.00	100	Horizontal	Pass
2	2742.064	42.74	-2.85	74.0	-31.26	Peak	1.00	100	Horizontal	Pass
3	3043.739	44.32	-2.45	74.0	-29.68	Peak	190.00	100	Horizontal	Pass
4	3770.307	45.04	0.15	74.0	-28.96	Peak	272.00	100	Horizontal	Pass
5	4433.142	47.23	2.07	74.0	-26.77	Peak	303.00	100	Horizontal	Pass
6	5559.110	45.51	3.92	74.0	-28.49	Peak	318.00	100	Horizontal	Pass

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# Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	80.21	-3.57	114.0	-33.79	Peak	318.00	100	Vertical	Pass
2	2797.301	42.72	-2.70	74.0	-31.28	Peak	266.00	100	Vertical	Pass
3	3043.739	42.68	-2.45	74.0	-31.32	Peak	277.00	100	Vertical	Pass
4	3753.312	45.39	0.06	74.0	-28.61	Peak	37.00	100	Vertical	Pass
5	4365.159	47.30	1.94	74.0	-26.70	Peak	214.00	100	Vertical	Pass
6	5571.857	45.59	3.92	74.0	-28.41	Peak	292.00	100	Vertical	Pass

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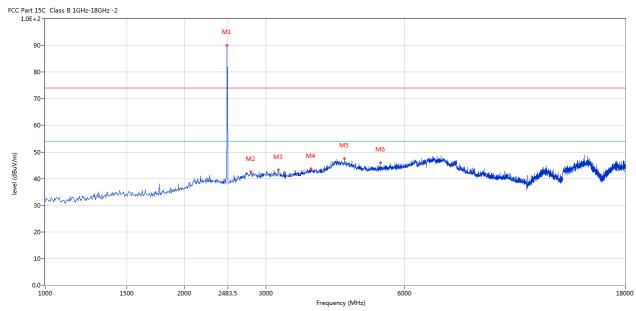
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Please refer to the following test plots for details: High Channel-2475MHz

### Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2475	90.03	-3.57	114.0	-23.97	Peak	42.00	100	Horizontal	Pass
2	2784.554	42.49	-2.74	74.0	-31.51	Peak	244.00	100	Horizontal	Pass
3	3196.701	43.24	-1.98	74.0	-30.76	Peak	31.00	100	Horizontal	Pass
4	3761.810	43.61	0.11	74.0	-30.39	Peak	286.00	100	Horizontal	Pass
5	4445.889	47.50	2.10	74.0	-26.50	Peak	213.00	100	Horizontal	Pass
6	5316.921	46.00	3.52	74.0	-28.00	Peak	312.00	100	Horizontal	Pass

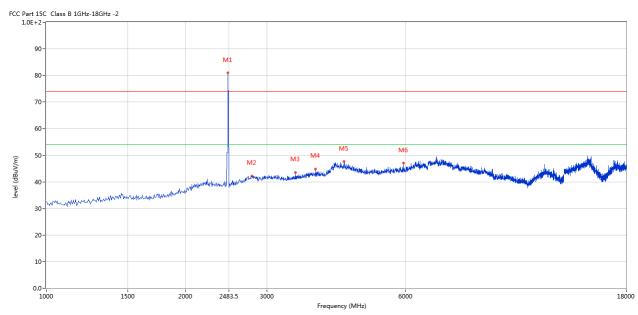
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### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2475	80.96	-3.57	114.0	-33.04	Peak	349.00	100	Vertical	Pass
2	2788.803	42.22	-2.73	74.0	-31.78	Peak	298.00	100	Vertical	Pass
3	3460.135	43.53	-1.37	74.0	-30.47	Peak	278.00	100	Vertical	Pass
4	3821.295	44.77	0.42	74.0	-29.23	Peak	349.00	100	Vertical	Pass
5	4411.897	47.62	2.02	74.0	-26.38	Peak	344.00	100	Vertical	Pass
6	5933.017	47.05	3.81	74.0	-26.95	Peak	14.00	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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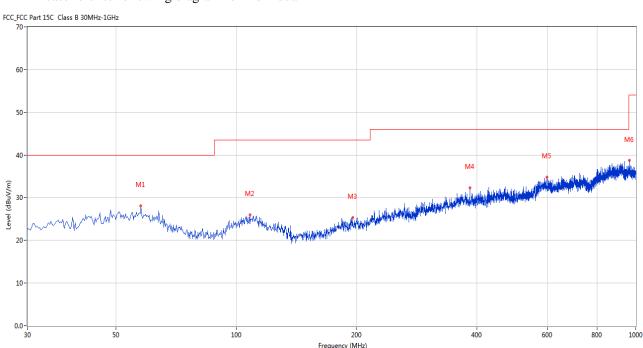


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	57.638	28.10	-4.91	40.0	11.90	Peak	10.00	100	Horizontal	Pass
2	108.065	25.96	-5.99	43.5	17.54	Peak	260.00	100	Horizontal	Pass
3	195.344	25.33	-7.12	43.5	18.17	Peak	350.00	100	Horizontal	Pass
4	383.962	32.32	-2.04	46.0	13.68	Peak	65.00	100	Horizontal	Pass
5	599.248	34.76	1.55	46.0	11.24	Peak	11.00	100	Horizontal	Pass
6	964.361	38.70	5.19	54.0	15.30	Peak	28.00	100	Horizontal	Pass

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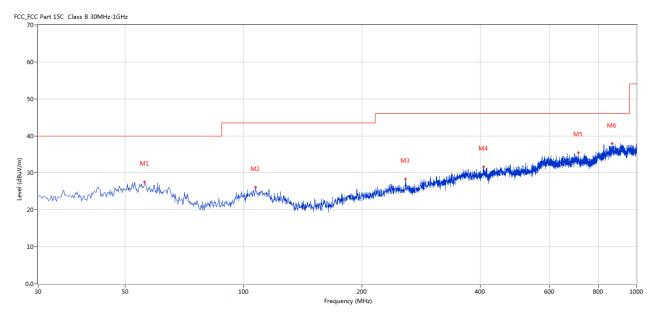


# Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	55.941	27.59	-5.06	40.0	12.41	Peak	42.00	100	Vertical	Pass
2	107.338	26.09	-6.07	43.5	17.41	Peak	347.00	100	Vertical	Pass
3	257.893	28.34	-4.99	46.0	17.66	Peak	226.00	100	Vertical	Pass
4	408.205	31.61	-1.11	46.0	14.39	Peak	94.00	100	Vertical	Pass
5	710.770	35.51	2.28	46.0	10.49	Peak	85.00	100	Vertical	Pass
6	867.386	38.01	4.82	46.0	7.99	Peak	78.00	100	Vertical	Pass

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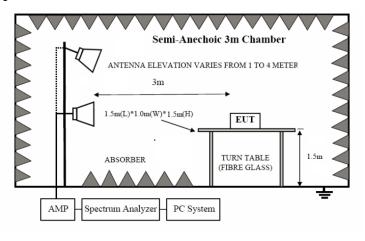


# 7. Band Edge

### 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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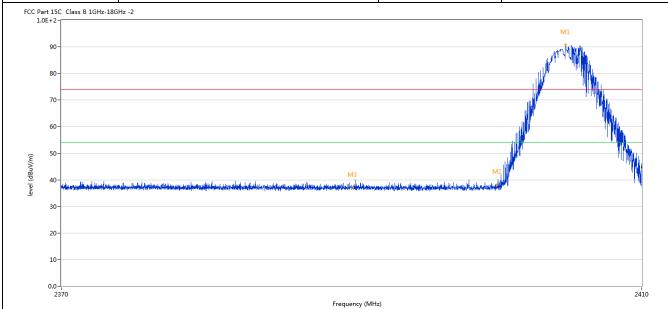
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# 7.6 Test Result

Product:	3 MODES CONNECTION BACKLIGHTING MECHANICAL KEYBOARD	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2404.701	90.76	-3.57	74.0	16.76	Peak	63.00	100	Horizontal	N/A
2	2400.000	38.17	-3.57	74.0	-35.83	Peak	206.44	100	Horizontal	Pass
3	2390.000	37.03	-3.53	74.0	-36.97	Peak	218.00	100	Horizontal	Pass

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Product:		3 MODES CONNECTION duct: BACKLIGHTING MECHANICAL KEYBOARD				Detect	or		Vertical	
Mode		K	eeping Tra	ansmitting		Test Vol	tage	-	DC3.7V	
Temperature			24 deg			Humid	ity		56% RH	
Te	Test Result:		Pas	SS						
	LSC Class B 1GHz-18GHz -	2								
1.0E+	2-									
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5(4) 3(2) 1(0)	0- 0- 0- 0- 0- 2370	Results		Limit	Frequency (MHz)  Over Limit	Detector		_	ANT Vertical	Verdi N/A
50 44 30 20 10	0- 0- 0- 0- 2370 Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	Frequency (MHz)  Over Limit (dB)		(o)	(cm)		Verd

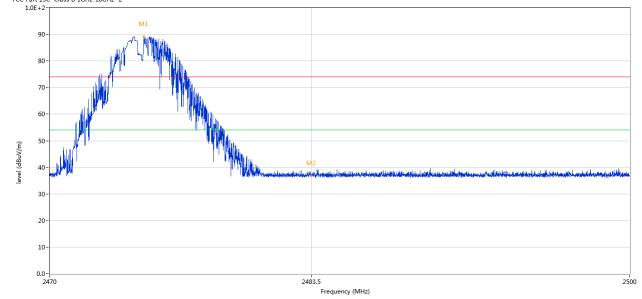
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Product:	3 MODES CONNECTION BACKLIGHTING MECHANICAL	Polarity	Horizontal
	KEYBOARD		
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
FCC Part 15C Class B 1GHz-18GHz 1.0E+2-	M1  A Marion		



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2474.829	89.06	-3.57	74.0	15.06	Peak	79.00	100	Horizontal	N/A
2	2483.500	36.63	-3.57	74.0	-37.37	Peak	229.57	100	Horizontal	Pass

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]	Product:	3 MODES CONNECTION BACKLIGHTING MECHANICAL				Detector		Vertical		
		KEYBOARD								
	Mode	K	Keeping Tr	ansmitting		Test Vo	ltage		DC3.7V	
Te	mperature		24 de	g. C,		Humid	lity		56% RH	
Τe	est Result:		Pas	ss						
	nt 15C Class B 1GHz-18GHz E+2- 90- 80- 70-	M1	Nu.							
level (dBuV/m)	50- 40- 30- 20- 10- 0.0- 2470		Maria Maria	M2		ekirken delakir al-lenerikan	i kargen an Albaheran	necessia de servicio de la constanta de la con	isaya dikir dendan pakada da dikenda da dike	
	30- 20- 10- 2470			2483.	5 Frequency (MHz)					250
(m/Nngh) level (dBuV/m)	30- 20- 10- 2470 Frequency	Results	Factor	2483. Limit	5 Frequency (MHz)	Detector	Table	Height	ANT	250 Verdi
No.	30- 20- 10- 0.0 - 2470 Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	<sup>250</sup>
	30- 20- 10- 2470 Frequency			2483. Limit	5 Frequency (MHz)		Table	Height		250

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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### 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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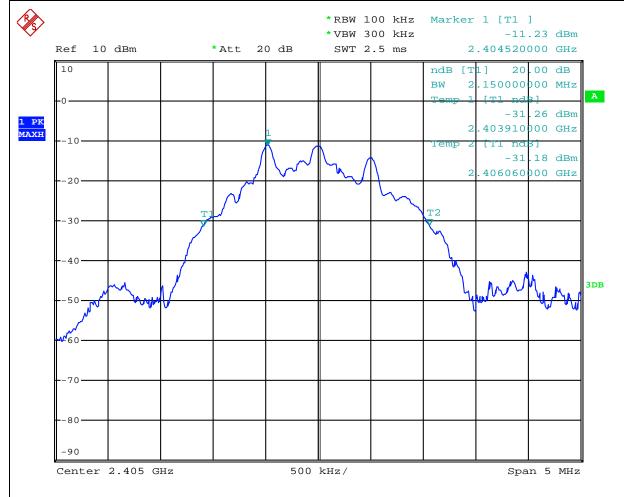
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### **Test Result**

	3 MODES CONNECTION		
Product:	BACKLIGHTING MECHANICAL	Test Mode:	Keep transmitting
	KEYBOARD		
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.150MHz		1



Date: 10.SEP.2025 15:13:39

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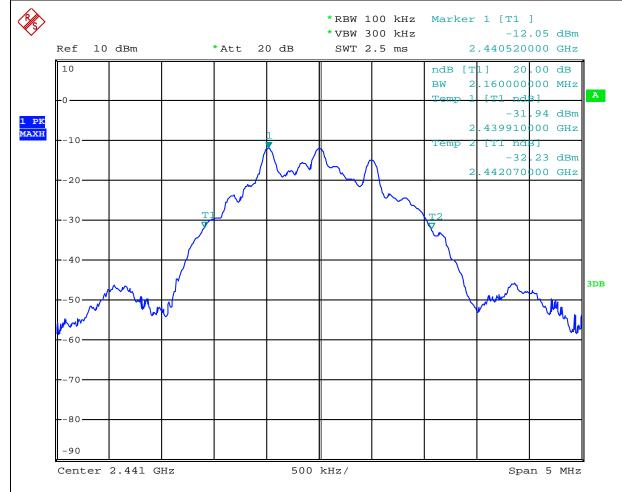
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	3 MODES CONNECTION		
Product:	BACKLIGHTING MECHANICAL	Test Mode:	Keep transmitting
	KEYBOARD		
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.160MHz		



Date: 10.SEP.2025 14:30:57

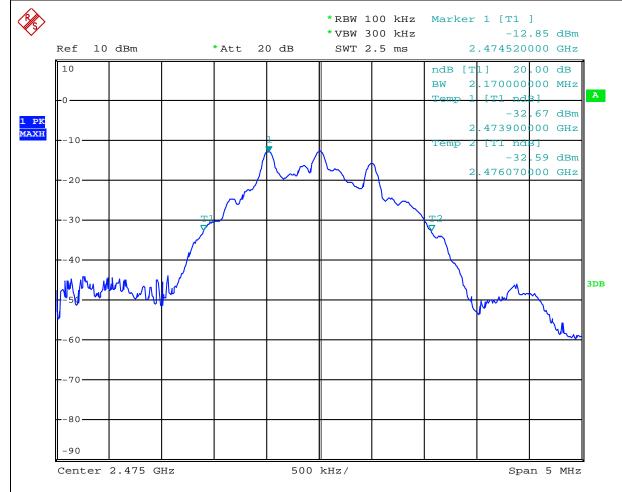
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	3 MODES CONNECTION		
Product:	BACKLIGHTING MECHANICAL	Test Mode:	Keep transmitting
	KEYBOARD		
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.170MHz		



Date: 10.SEP.2025 14:58:28

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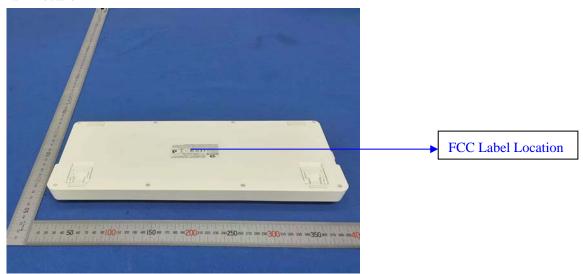
### 10.0 FCC ID Label

### FCC ID: TUVET-7386A

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



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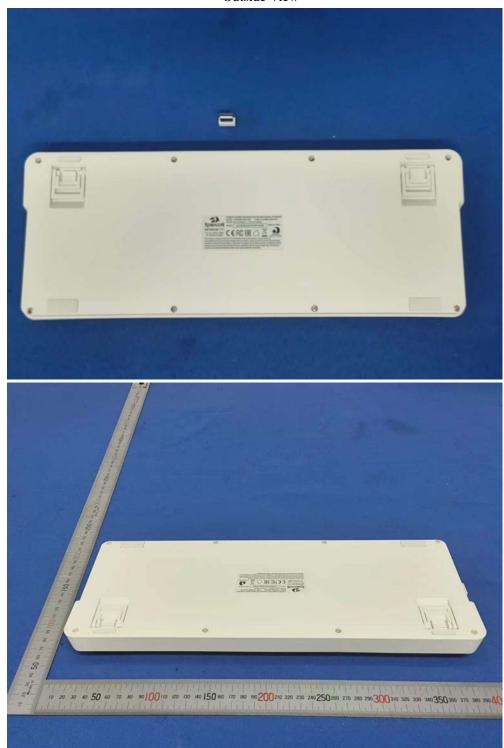
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Outside View



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Outside View



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Inside View



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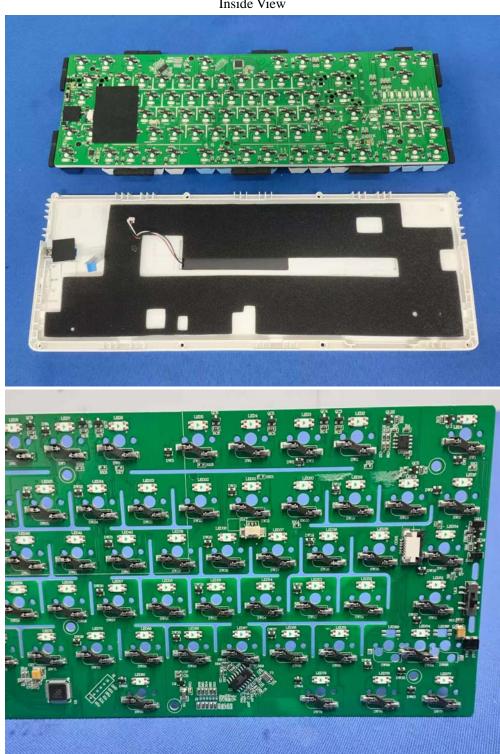
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Inside View



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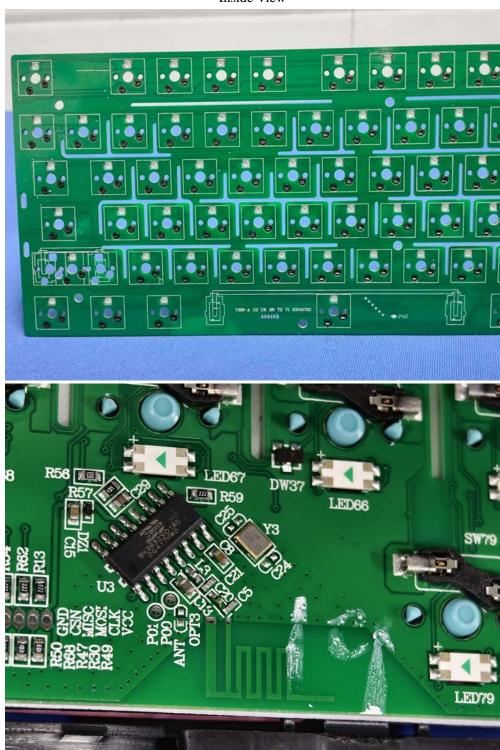
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Inside View



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

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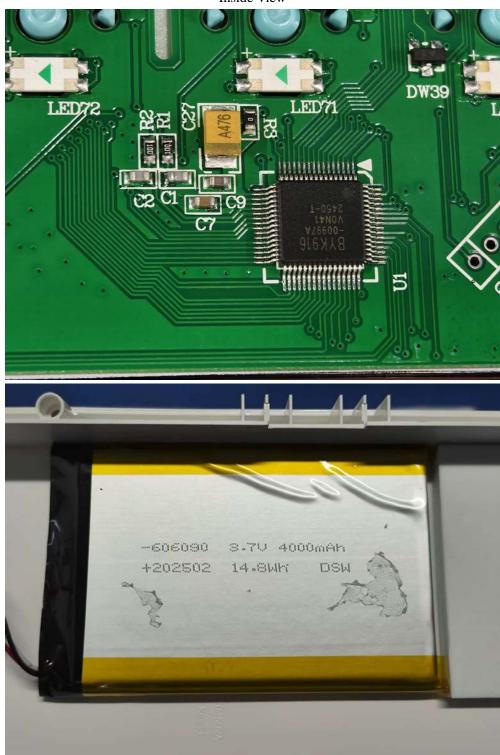
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Inside View



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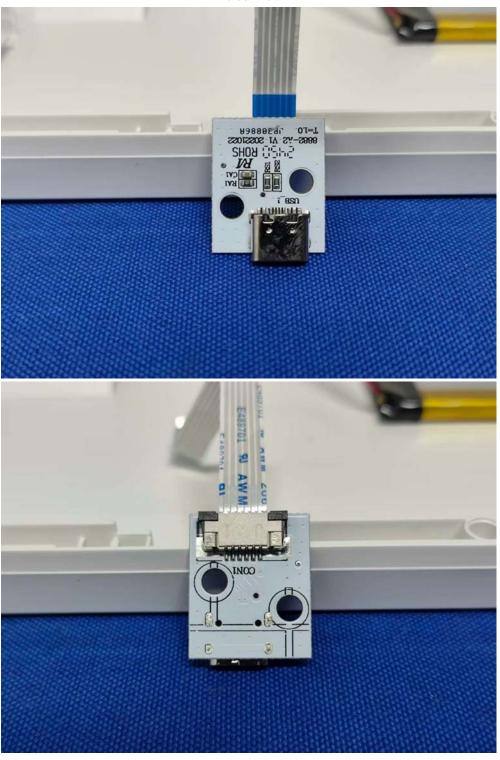
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Inside View



-- End of the report--

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