

Applicant: Eastern Times Technology Co.,Ltd

Product: 94 KEY MECHANICAL GAMING KEYBOARD

Model No.: K643WGC-RGB-PRO, ET-8886, ET-8953

Trademark: REDRAGON

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 & FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Term lang

Terry Tang

Manager

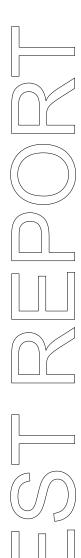
Dated: December 15, 2022

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

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



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Special Statement:

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

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

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

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

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

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

A2LA (Certification Number: 5013.01)

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

CAB identifier: CN0033

Date: 2022-12-15



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 Sates

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.

Telephone: --Fax: --

1.3 Description of EUT

Product: 94 KEY MECHANICAL GAMING KEYBOARD

Manufacturer: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,

Dongguan City, Guangdong, China.

Trademark: REDRAGON

Model Number: K643WGC-RGB-PRO Additional Model Name ET-8886, ET-8953

Rating: DC5V, 720mA or DC3.7V, 290mA Battery DC3.7V, 1600mAh Li-ion battery

Modulation Type: GFSK

Operation Frequency: 2403-2480MHz

Channel Number: 16

Channel List (Unit: MHz): 2403, 2424, 2441, 2461, 2414, 2435, 2450, 2470, 2409, 2429, 2455, 2475,

2419, 2445, 2465, 2480

Hardware Version: 8886-A V1 Software Version: 5AF3

Serial No.: RDK643WGC-RGB-PRO22111501003

Antenna Designation PCB antenna with gain 2.34dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2022-11-23 to 2022-12-15

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

Conducted Emissions Uncertainty = 3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

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	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	1	2022-07-15	2023-07-14
RF Cable	Zhengdi	7m	1	2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

2.2 Automation Test Software

For Conducted Emission Test

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

For Radiated Emissions

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

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna 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

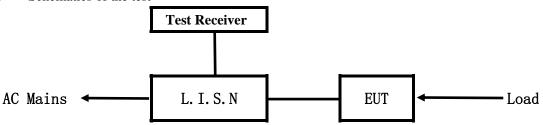
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

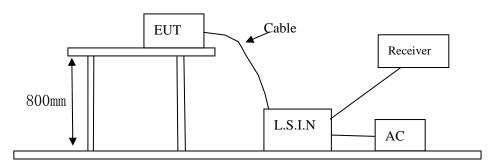


EUT: Equipment Under Test

5.2 Test Method and test Procedure

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

Block diagram of Test setup



5.3 Configuration of The EUT

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

16 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
94 KEY MECHANICAL	Eastern Times Technology	K643WGC-RGB-PRO,	TIMET 0006A
GAMING KEYBOARD	Co.,Ltd	ET-8886, ET-8953	TUVET-8886A

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B. Internal Device

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

<u> </u>						
Frequency	Limits (dB μ V)					
(MHz)	Quasi-peak Level	Average Level				
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*				
$0.50 \sim 5.00$	56.0	46.0				
5.00 ~ 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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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

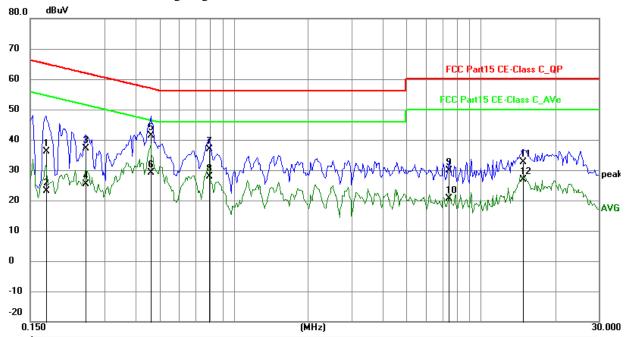
EUT Operating Environment

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



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	26.34	9.77	36.11	64.80	-28.69	QP	Р
2	0.1734	13.31	9.77	23.08	54.80	-31.72	AVG	Р
3	0.2514	27.28	9.75	37.03	61.71	-24.68	QP	Р
4	0.2514	15.64	9.75	25.39	51.71	-26.32	AVG	П
5	0.4620	31.57	9.77	41.34	56.66	-15.32	QP	П
6	0.4620	19.30	9.77	29.07	46.66	-17.59	AVG	Л
7	0.7935	27.14	9.78	36.92	56.00	-19.08	QP	Р
8	0.7935	18.05	9.78	27.83	46.00	-18.17	AVG	Р
9	7.4421	19.77	10.03	29.80	60.00	-30.20	QP	Л
10	7.4421	10.69	10.03	20.72	50.00	-29.28	AVG	Р
11	14.8092	22.14	10.37	32.51	60.00	-27.49	QP	Р
12	14.8092	16.61	10.37	26.98	50.00	-23.02	AVG	Р

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

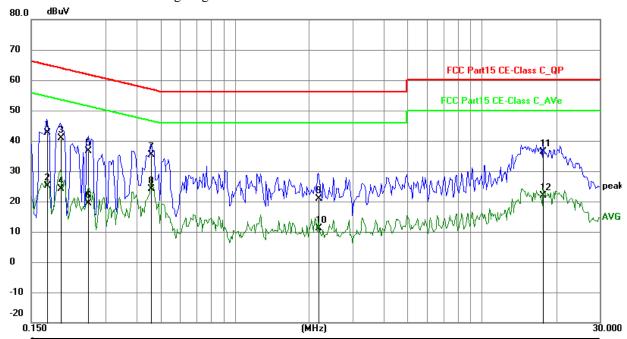
EUT Operating Environment

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



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	32.94	9.77	42.71	64.80	-22.09	QP	Р
2	0.1734	15.30	9.77	25.07	54.80	-29.73	AVG	Р
3	0.1968	31.12	9.75	40.87	63.74	-22.87	QP	Р
4	0.1968	14.29	9.75	24.04	53.74	-29.70	AVG	П
5	0.2553	26.92	9.75	36.67	61.58	-24.91	QP	П
6	0.2553	9.63	9.75	19.38	51.58	-32.20	AVG	Л
7	0.4581	25.57	9.77	35.34	56.73	-21.39	QP	Р
8	0.4581	14.35	9.77	24.12	46.73	-22.61	AVG	Р
9	2.1858	11.05	9.81	20.86	56.00	-35.14	QP	Р
10	2.1858	1.42	9.81	11.23	46.00	-34.77	AVG	Р
11	17.7537	25.85	10.55	36.40	60.00	-23.60	QP	Р
12	17.7537	11.40	10.55	21.95	50.00	-28.05	AVG	Р

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6 Radiated Emission Test

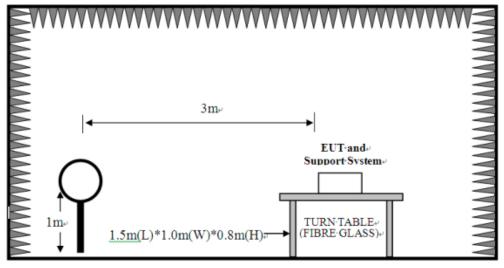
6.1 Test Method and test Procedure:

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

Block diagram of Test setup

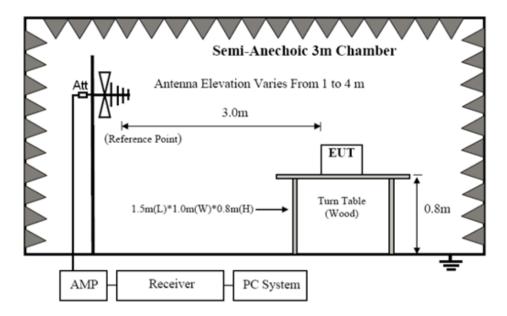
For radiated emissions from 9kHz to 30MHz



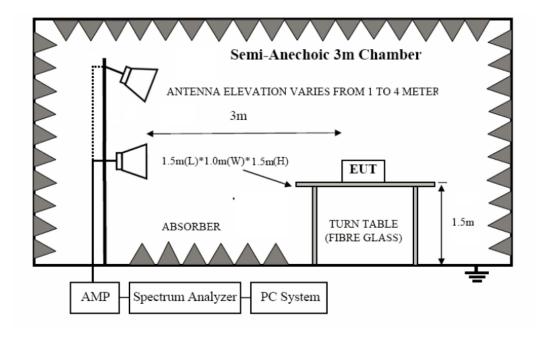
For radiated emissions from 30MHz to1GHz

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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

Ī	Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field S	trength of Harmo	onics (3m)
	(MHz)	mV/m	dBu	V/m	uV/m	dBu	V/m
Ī	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 $(dBuV) = 20 \log RF Voltage (uV)$
- 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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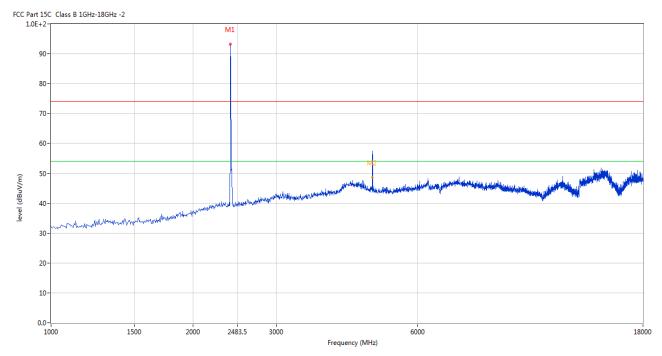


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



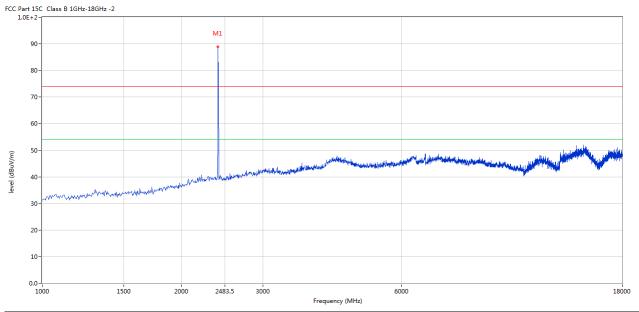
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2403	93.25	-3.57	114.0	-20.75	Peak	272.00	100	Horizontal	Pass
2	4805.799	57.42	3.12	74.0	-16.58	Peak	272.00	100	Horizontal	Pass
2**	4805.799	48.51	3.12	54.0	-5.49	AV	272.00	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	2403	88.95	-3.57	114.0	-25.05	Peak	293.00	100	Vertical	Pass

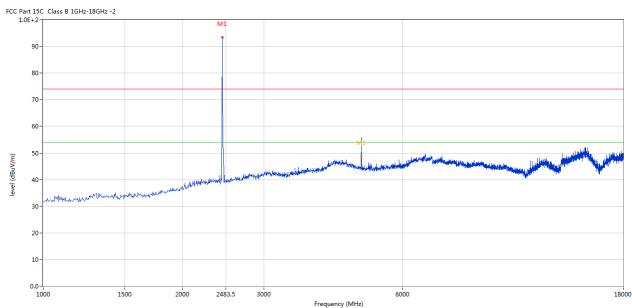
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



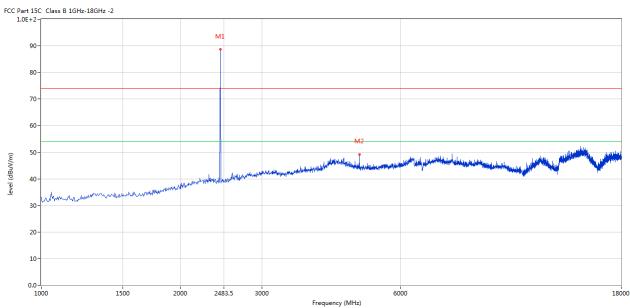
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	93.42	-3.57	114.0	-20.58	Peak	223.00	100	Horizontal	Pass
2	4879.280	55.92	3.20	74.0	-18.08	Peak	277.00	100	Horizontal	Pass
2**	4879.280	48.90	3.20	54.0	-5.10	AV	277.00	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	88.69	-3.57	114.0	-25.31	Peak	275.00	100	Vertical	Pass
2	4883.529	49.16	3.20	74.0	-24.84	Peak	281.00	100	Vertical	Pass

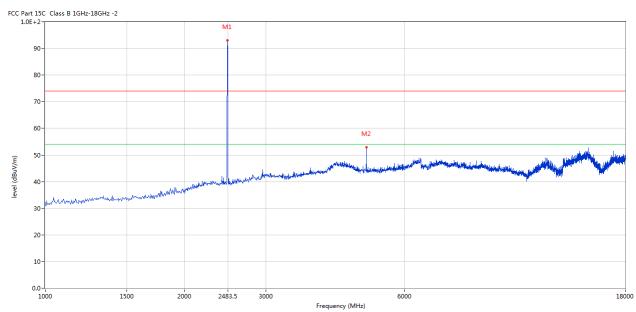
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	93.02	-3.57	114.0	-20.98	Peak	214.00	100	Horizontal	Pass
2	4960.010	52.93	3.36	74.0	-21.07	Peak	219.00	100	Horizontal	Pass

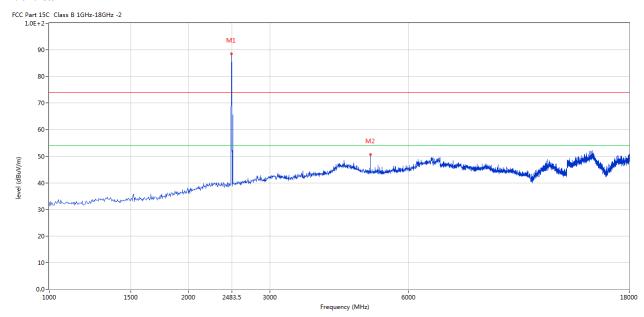
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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	88.55	-3.57	114.0	-25.45	Peak	282.00	100	Vertical	Pass
2	4960.010	50.69	3.36	74.0	-23.31	Peak	282.00	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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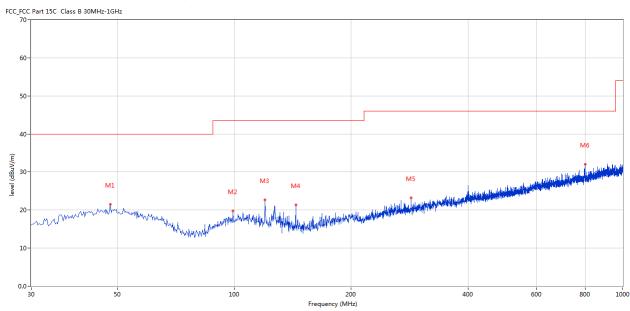


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	47.941	21.54	-11.30	40.0	-18.46	Peak	14.00	100	Horizontal	Pass
2	99.095	19.83	-13.66	43.5	-23.67	Peak	0.00	100	Horizontal	Pass
3	119.945	22.68	-15.32	43.5	-20.82	Peak	283.00	100	Horizontal	Pass
4	143.947	21.39	-17.10	43.5	-22.11	Peak	77.00	200	Horizontal	Pass
5	285.289	23.25	-11.32	46.0	-22.75	Peak	63.00	100	Horizontal	Pass
6	799.745	32.08	-2.97	46.0	-13.92	Peak	96.00	100	Horizontal	Pass

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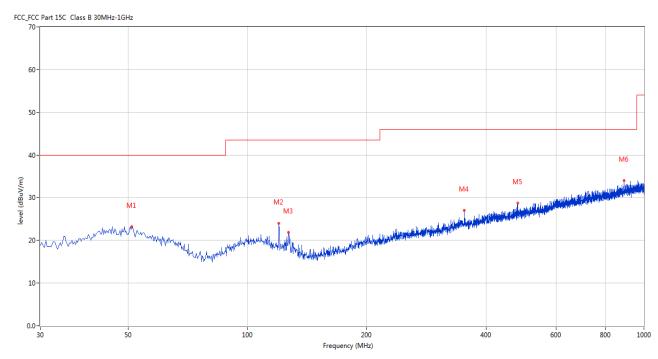


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	51.092	23.20	-11.41	40.0	-16.80	Peak	337.00	100	Vertical	Pass
2	119.945	24.05	-15.32	40.0	-15.95	Peak	0.00	200	Vertical	Pass
3	126.976	21.84	-16.60	40.0	-18.16	Peak	0.00	200	Vertical	Pass
4	351.717	27.02	-9.43	47.0	-19.98	Peak	0.00	200	Vertical	Pass
5	479.968	28.77	-7.40	47.0	-18.23	Peak	85.00	100	Vertical	Pass
6	890.175	33.97	-1.89	47.0	-13.03	Peak	328.00	200	Vertical	Pass

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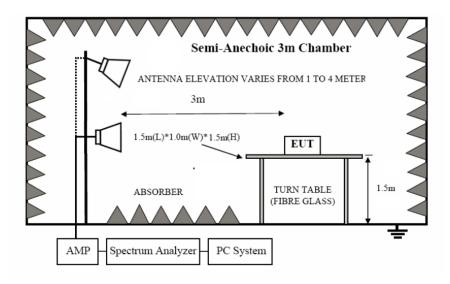


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. 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

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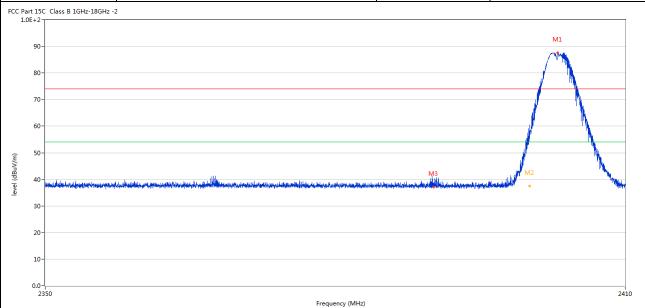
is the lesser attenuation.

1	Product:	94 KEY M		CAL GAMIN	G	Polarity	J		Horizontal	
			KEYBOA							
	Mode	Kee			DC3.7V					
Te	mperature		24 deg.	C,		Humidit	y		56% RH	
Te	est Result:		Pass							
Part 1 1.0E+	5C Class B 1GHz-18GHz -:	2								
9								_	11 Munili	
9	0-							\int		
8	0-								<u> </u>	
7	0-								N,	
6	0-								N	
									N	
. 5	0-		uli.			МЗ		M2	NA NA	
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	O-	इंद्रांस् कृत्यंत्र अन्ति कर्षे के क्षांस्त्र स्थित कृति क्षांस्त्र क्षांस्त्र क्षांस्त्र क्षांस्	media 1911 Minglesquesicies	ed transportation for the conditioning	kupilian disepektikan disepektikan disepektikan disepektikan disepektikan disepektikan disepektikan disepektik	M3	ما أعلم المارية	M2 °	NA MANA	N _k
3	O-hadrotalalaja yampahayayajibasa O-	والإن الإن المعارضة	and the best own aring	خة استعجاج على أو المراجع المر	hirikka eska deriyah, mahkini deka deri	M3	والمسترود والمائد والمستود	M2	À	M _i ,
4	O-hadrotalalaja yampahayayajibasa O-	इंदर कुला के अपने के लो के के किया में कुला में के हो अपने के किया है कि हम ह	and the Ministry of the State o	ah Hususung atapah jalah Muu esembil silamba	undinendration and their tentral	M3	الحفاقية فيرون والمتاريخ والمتاريخ والمتاريخ والمتاريخ والمتاريخ والمتاريخ والمتاريخ والمتاريخ والمتاريخ والمت	M2 °	***************************************	W _i ,
3		દાંતુ જ પૂર્વ રહ્યાં હતો. તે હાલ ભેગ્યું હતી ને ક્ષેત્ર ના કાર્યું જો પ્લોક	and April Williams Long production	કને મેન્ય લાગભાવન શામાનું કર્યો હતે. ૧૯, ૧૯૧૧ નોર્ટિંગી <u>લા અં</u>	tivel have been entered by the hand developed	M3	والمراجعة والمساودة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة	M2 °	***************************************	
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3 2 2 1 0.		દાં કુષ્યું પૂર્વા રાત્ર તે હોંગો ને હાત્ર લિજાનો ને હેવી … કાર્ય પૂર્વા પાણે	med Age 1999 Hongel regions division	shiwanagataji,dissa,aan kislasa	uellanda egya addeida egy	M3	والمراجعة	M2 °	***************************************	2410
3 2 2 1 0.		Results	Factor	Freque	uency (MHz) Over Limit	Detector	Table	M2 °	ANT	ı
34 34 10	0-		Factor (dB)			on the second of	Table (o)	Height (cm)	1	I
34 34 10	Frequency	Results		Limit	Over Limit	on the second of			1	I
3 2 1 0.	Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	(o)	(cm)	ANT	Verdi
3 2 1 0 0 No.	Frequency (MHz) 2402.697	Results (dBuV/m) 92.67	(dB) -3.57	Limit (dBuV/m) 74.0	Over Limit (dB) 18.67	Detector	(o) 271.00	(cm) 100	ANT Horizontal	Verdi N/A

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Product:	94 KEY MECHANICAL GAMING	Detector	Vertical
Flouuct.	KEYBOARD	Detector	vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

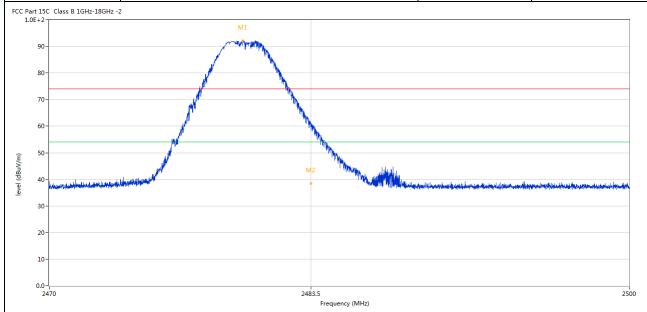


Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2402.907	88.61	-3.57	74.0	14.61	Peak	283.00	100	Vertical	N/A
2400.000	57.48	-3.57	74.0	-16.52	Peak	283.71	100	Vertical	Pass
2400.000	37.47	-3.57	54.0	-16.53	AV	283.71	100	Vertical	Pass
2390.000	37.17	-3.53	74.0	-36.83	Peak	153.67	100	Vertical	Pass
	(MHz) 2402.907 2400.000 2400.000	(MHz) (dBuV/m) 2402.907 88.61 2400.000 57.48 2400.000 37.47	(MHz) (dBuV/m) (dB) 2402.907 88.61 -3.57 2400.000 57.48 -3.57 2400.000 37.47 -3.57	(MHz) (dBuV/m) (dB) (dBuV/m) 2402.907 88.61 -3.57 74.0 2400.000 57.48 -3.57 74.0 2400.000 37.47 -3.57 54.0	(MHz) (dBuV/m) (dB) (dBuV/m) (dB) 2402.907 88.61 -3.57 74.0 14.61 2400.000 57.48 -3.57 74.0 -16.52 2400.000 37.47 -3.57 54.0 -16.53	(MHz) (dBuV/m) (dB) (dBuV/m) (dB) 2402.907 88.61 -3.57 74.0 14.61 Peak 2400.000 57.48 -3.57 74.0 -16.52 Peak 2400.000 37.47 -3.57 54.0 -16.53 AV	(MHz) (dBuV/m) (dB) (dBuV/m) (dB) (o) 2402.907 88.61 -3.57 74.0 14.61 Peak 283.00 2400.000 57.48 -3.57 74.0 -16.52 Peak 283.71 2400.000 37.47 -3.57 54.0 -16.53 AV 283.71	(MHz) (dBuV/m) (dB) (dB) (o) (cm) 2402.907 88.61 -3.57 74.0 14.61 Peak 283.00 100 2400.000 57.48 -3.57 74.0 -16.52 Peak 283.71 100 2400.000 37.47 -3.57 54.0 -16.53 AV 283.71 100	(MHz) (dBuV/m) (dB) (dBuV/m) (dB) (o) (cm) 2402.907 88.61 -3.57 74.0 14.61 Peak 283.00 100 Vertical 2400.000 57.48 -3.57 74.0 -16.52 Peak 283.71 100 Vertical 2400.000 37.47 -3.57 54.0 -16.53 AV 283.71 100 Vertical

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Product:	94 KEY MECHANICAL GAMING 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	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2479.988	92.04	-3.57	74.0	18.04	Peak	218.00	100	Horizontal	N/A
2	2483.500	58.53	-3.57	74.0	-15.47	Peak	193.86	100	Horizontal	Pass
2**	2483.500	38.51	-3.57	54.0	-15.49	AV	193.86	100	Horizontal	Pass

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]	Product:	94 KEY M	IECHANI	CAL GAMIN	IG KEYBO	ARD	Detecto	Vertic	Vertical				
	Mode			Test Voltage DC3									
Te	mperature		Humidity			56% RH							
Te	est Result:												
C Part 1	15C Class B 1GHz-18GHz -	-2				•		•					
	10-		M1										
,)-											
8	60-		al de la companya de	'\									
7	70-		MART .	N									
6	50-	www.	•	7									
		J.F		.10									
. 5	60-			- III	١.								
5	10-	and the state of t		M2	MM								
4	10-	n Haris da in Linda de de la Carle de la C		M2	Manager water in	the state of the s	jopaka-kanamatheen-aluguh	alaund shiri garaha dan Afrika da da Afrika da Afr	the and heavy tempted decrees	WHA WHA			
4	10-	المعادلة والمعادلة والمعاد		M2	Manager ve seekiliste	likethidassa isasi Iriatli edh. muunsad	tipping-harmanelengenskupel	had sikyeski kuljaski a redukus	orthy, marky, he mily he reprised between the	Military A. Walan			
3	10-	المجاهدة المعادلة الم		M2	Mary Mary and the state of the	hit of the constant by after the constant	i jepina ahura ayad dan salugur	houles his project and project his host are should not	ndig, andig, kenisyan, an indidusing	HING BLANKING			
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3 2 1		Results	Factor		, to annual pr	Detector	Table	Height	ANT	ı			
3 2 1	0-2470		Factor (dB)	Fre	equency (MHz)	The state of the s				ı			
3 3 2 1 0.	Frequency	Results		Limit	equency (MHz) Over Limit	The state of the s	Table	Height		ı			
3 2 1 0.	Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	equency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdic			

Note: 1. 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. The antenna gain is 2.34dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Product:	94 KEY MECHANICAL GAMING KEYBOARD				oduct:		G	Te	est Mode:		Keep tran	smitting	
Mode	ŀ	Keeping Trans	mitting		Tes	st Voltage	DC3.7V						
Temperature		24 deg. (Ξ,		Н	Iumidity		56%	RH				
Test Result:		Pass			Detector			PF	ζ				
20dB Bandwidth		2.465MF	łz										
Ref Lvl 10 dBm	Mar ndB BW		ndB] 0.00 dB 2986 MHz	VI	BW BW WT	100 kl 300 kl 5 m	Hz	Att	20 dB dBr	n			
10										7			
0							[T1]	-6 2.40239		A			
		<u></u>		$ \uparrow $		ndB BW ∧ ∇ _{T1}	[T1]	2.46492 -26	.00 dB 986 MHz .47 dBm				
-10		~		L.,	10-10	The state of the s	[T1]	2.40173 -26					
-20	T	1					V _{T2}	2.40419	739 GHz	1 M			
-30	Mary Mary						L. M.	M M~	<u></u>				
-40							·	* W .	Morris	V			
-50													
-60													
-70													
-80													
-90 Center 2.	403 GHz		500	kHz/				Spa	n 5 MHz	<u> </u> :			

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Product:		94 KEY MECHANICAL GAMING KEYBOARD			Test Mode:		Keep transmitting		
Mode		Keeping Transmitting				DC3.7V			
Temperature	2	4 deg. C,		1	Humidity			% RH	
Test Result:		Pass			Detector]	PK	
20dB Bandwidth	2.	.455MHz							
Ref Lvl 10 dBm	ndB	1 [T1 ndB] 20.00 dB 2.45490982 MHz	7	RBW /BW GWT	100 kH 300 kH 5 ms	Íz	? Att	20 dB	
0 -10		1	1		ndB BW VT	[T1] [T1]	2.44039 20 2.45490 -26	0.00 dB	A
-20 1MAX	T1	~ V			V _T 2	[T1]		.73 dBm	1MA
-40 4 A A A A A A A A A A A A A A A A A A	Joseph Land					Mr	Mun	Why his	
-50									
-60									
-70									
-80									
	.441 GHz .DEC.2022 15:	500	kHz/	,			Spa	an 5 MHz	

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Product:	94 KEY MECHANICAL GAMING KEYBOARD Keeping Transmitting				G	Т	est Mode:		Keep tra	ansmitting	
Mode					Test Voltage		;	DC3.7V			
Temperature		24	4 deg. C,]	Humidity		56% RH		
Test Result:			Pass				Detector]	PK	
20dB Bandwidth		2.	395MHz								
Ref Lvl		ndB		00 dB	V	BW BW	100 k 300 k	Hz	F Att	20 dB	
10 dBm		BW 2	.394789	958 MHz	S	WT	5 m	s Ui	nit	dBm	•
0							v ₁	[T1]	2.47939		A
-10			1		1		ndE BW ▼ _T	(T1)	2.39478 -26	.00 dB 958 MHz .31 dBm	
-20			~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V	لي	<i>/</i> ~~/	ACT.	2 [T1]	2.47878	.20 dBm	
1MAX -30		T1						T2	2.48117	735 GHz	1MA
-40	Market Market							\w	<u> </u>	ΨĮ	
- 50									**	July	
-60											
-70											
-80											
-90 Center 2	.48 GHz		19:05	500	kHz/				<u>I</u> Spa	n 5 MHz	

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10.0 FCC ID Label

FCC ID: TUVET-8886A

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

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

Mark Location:



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11.0 Photo of testing

11.1 Conducted test View--



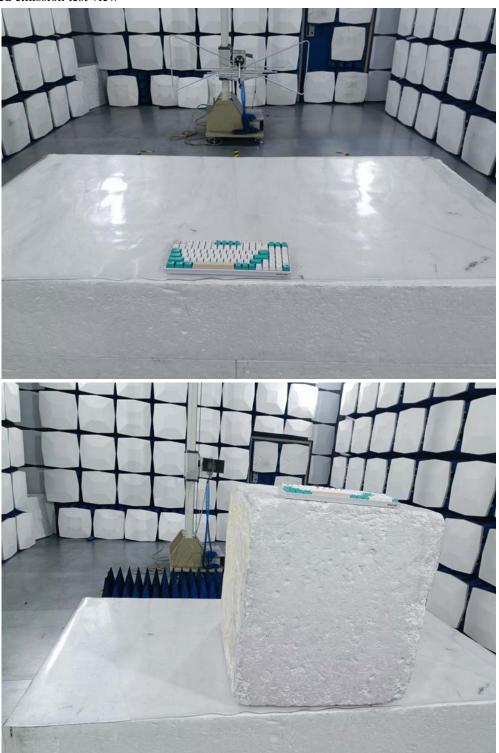
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Radiated emission test view



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11.2



Outside View- keyboard



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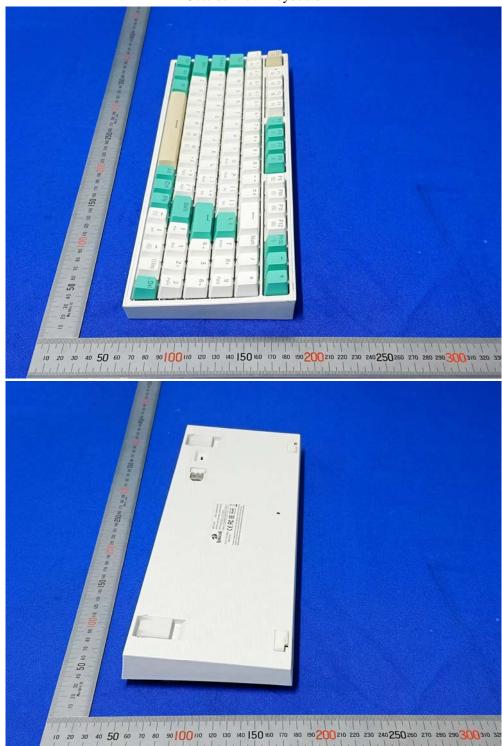
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Date: 2022-12-15



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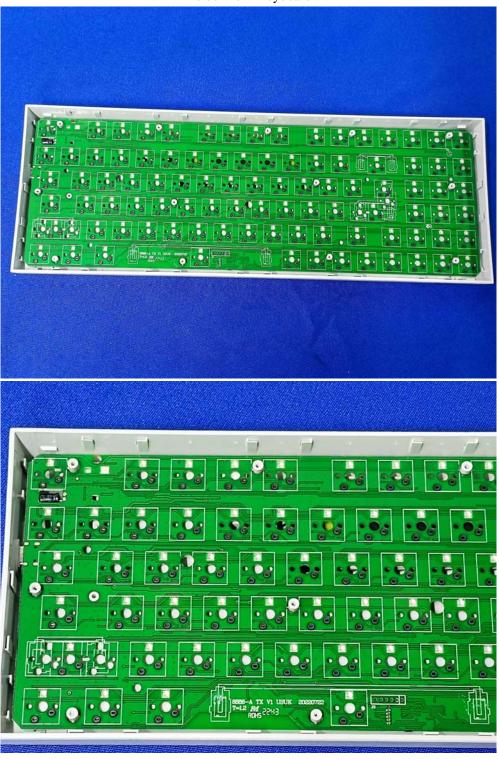
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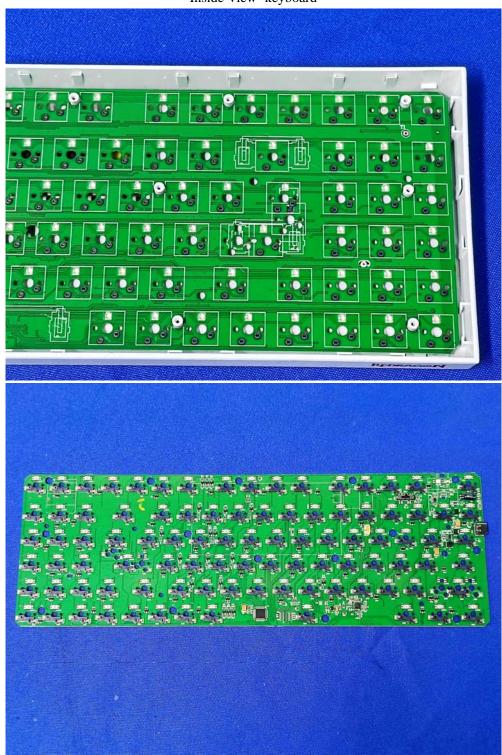
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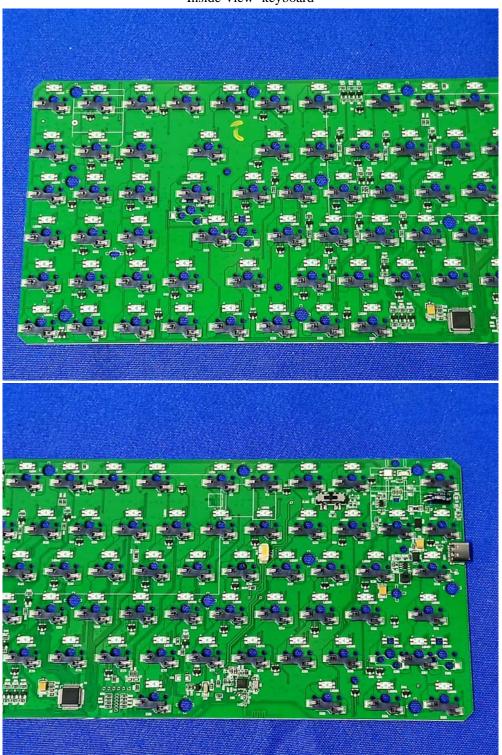
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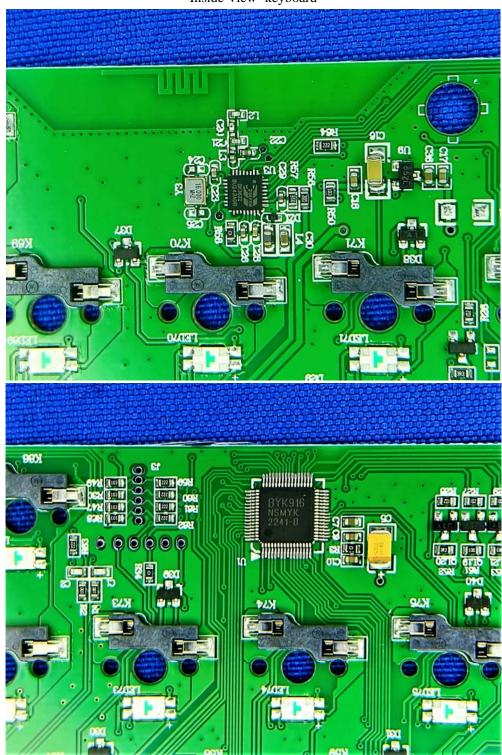
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