



Report No.: File reference No.:	TW2105198-01E 2022-03-09
Applicant:	Eastern Times Technology Co.,Ltd
Product:	MECHANICAL GAMING KEYBOARD
Model No.:	K598P-KBS, ET-8494, K598P-KBS(EU), K598P-KNS, K598P-KNS(EU), K598P-KRS, K598P-KRS(EU), K598P-WNS, K598P-WNS(EU), K598P-WRS, K598P-WRS(EU), K598P-WBS, K598P-WBS(EU)
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:

March 09, 2022

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

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

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

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

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 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

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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, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site on File with the Federal Communications Commission – United SatesRegistration Number: 744189For 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:	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:	K598P-KBS
Additional Model Name	ET-8494, K598P-KBS(EU), K598P-KNS, K598P-KNS(EU), K598P-KRS,
	K598P-KRS(EU), K598P-WNS, K598P-WNS(EU), K598P-WRS,
	K598P-WRS(EU), K598P-WBS, K598P-WBS(EU)
Rating:	DC5V, 560mA or DC3.7V, 300mA
Battery	DC3.7V, 3000mAh 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
Serial No.:	RDK598P-KBS21052100335
Antenna Designation	PCB antenna with gain -1.85dBi Max (Declared by the Manufacturer)

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1.4 Submitted Sample: 1 Sample

- 1.5 Test Duration 2021-05-13 to 2022-03-09
- 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	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2022-01-15	2023-01-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

2.2 Automation Test Software

For Conducted Emission Test

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

For Radiated Emissions

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

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The EUT has been tested according to the following specifications:

Technical Details 3.0

3.1 Summary of test results

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209 and RSS-210	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**

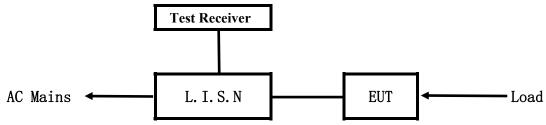
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

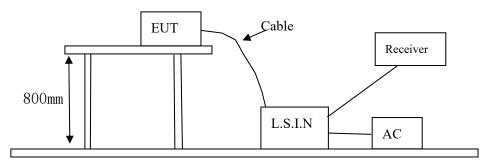


EUT: Equipment Under Test

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 500hm/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

Δ	FUT
А.	LUI

Device	Manufacturer	Model	FCC ID
MECHANICAL GAMING KEYBOARD	Eastern Times Technology Co.,Ltd	K598P-KBS, ET-8494, K598P-KBS(EU), K598P-KNS, K598P-KNS(EU), K598P-KRS, K598P-KRS(EU), K598P-WNS, K598P-WNS(EU), K598P-WRS, K598P-WRS(EU), K598P-WBS, K598P-WBS(EU)	TUVET-8494

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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

Frequency	Limits (d	B μ V)
(MHz)	Quasi-peak Level	verage Level
$0.15~\sim~0.50$	66.0~56.0*	56.0~ 6.0*
$0.50~\sim~5.00$	56.0	46.0
$5.00~\sim~30.00$	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

Pass

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Conducted Emission on Live Terminal (150kHz to 30MHz) A: **EUT Operating Environment** Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa EUT set Condition: Charging and Keep Transmitting **Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class C_QP 60 FCC Part 5 CE-Class C_AVe 50 40 ha peak 30 AVG 20 10 0 -10 -20 0.150 (MHz) 30.000

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1655	50 .17	9.77	59.94	65.18	-5.24	QP	Р
2	0.1655	37.17	9.77	46.94	55.18	-8.24	AVG	Р
3	0.6765	32.72	9.78	42.50	56.00	-13.50	QP	Ρ
4	0.6765	20.82	<mark>9</mark> .78	30.60	46.00	-15.40	AVG	Р
5	1.7490	25.50	9.80	35.30	56.00	-20.70	QP	Р
6	1.7490	15.66	9.80	25.46	46.00	-20.54	AVG	Р
7	17.6289	27.43	10.54	37.97	60.00	-22.03	QP	Ρ
8	17.6289	20.71	10.54	31.25	50.00	-18.75	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 dBu¥ 80.0 70 FCC Part15 CE-Class C_QP 60 FCC Part 5 CE-Class C_AVe 50 wys 40 peak 30 AVG 20 10 0 -10 -20 0.150 (MHz) 30.000

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1655	50.43	9.77	60.20	65.18	-4.98	QP	Ρ
2	0.1655	37.23	9.77	47.00	55.18	-8.18	AVG	Ρ
3	0.6258	35.51	9.78	45.29	56.00	-10.71	QP	Ρ
4	0.6258	24.33	9.78	34.11	46.00	-11.89	AVG	Ρ
5	1.6788	28.70	9.80	38.50	56.00	-17.50	QP	Ρ
6	1.6788	18.33	9.80	28.13	46.00	-17.87	AVG	Р
7	17.5743	27.33	10.53	37.86	60.00	-22.14	QP	Ρ
8	17.5743	20.91	10.53	31.44	50.00	-18.56	AVG	Р

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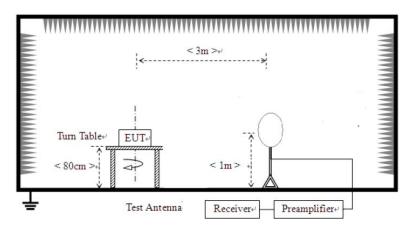


6 Radiated Emission Test

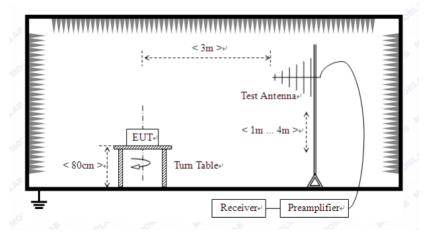
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is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

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz

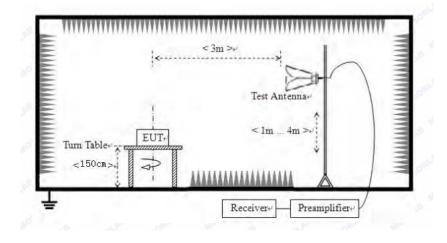


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For radiated emissions above 1GHz



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field S	trength of Harmo	nics (3m)
(MHz)	mV/m	dBu	V/m	uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

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.

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	1	81
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

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

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. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5. 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.

6. 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.

7. Battery full charged during tests.

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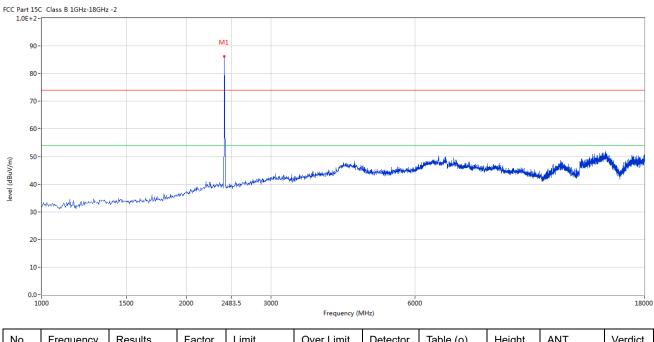
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6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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	2402.416	86.56	-3.57	114.0	-27.44	Peak	266.00	100	Horizontal	Pass

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2402.416

1

79.60

-3.57

114.0

-34.40

77.00

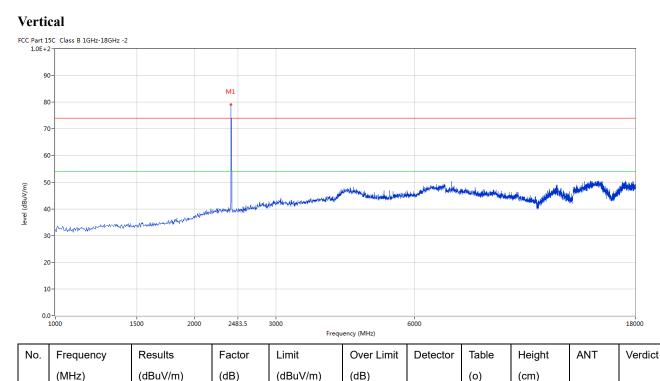
Peak

100

Vertical

Pass





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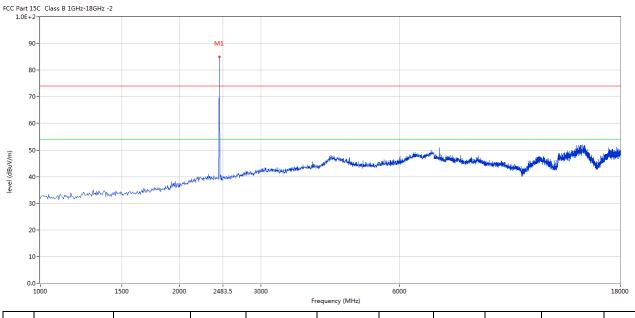
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal

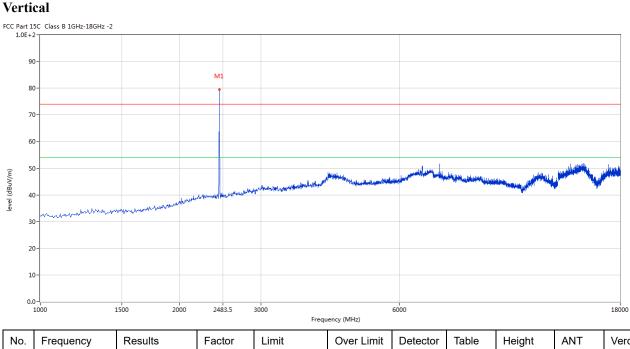


No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2440.410	84.99	-3.57	114.0	-29.01	Peak	267.00	100	Horizontal	Pass

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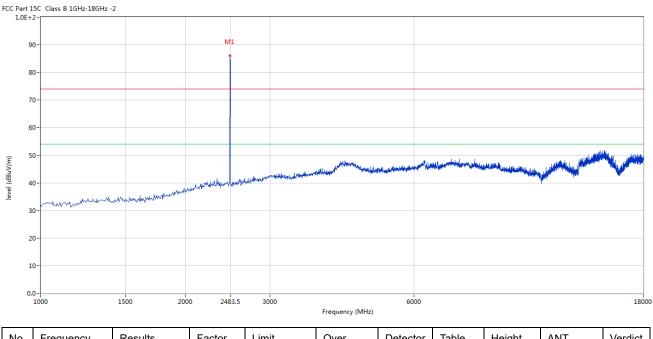


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440.410	79.54	-3.57	114.0	-34.46	Peak	72.00	100	Vertical	Pass

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

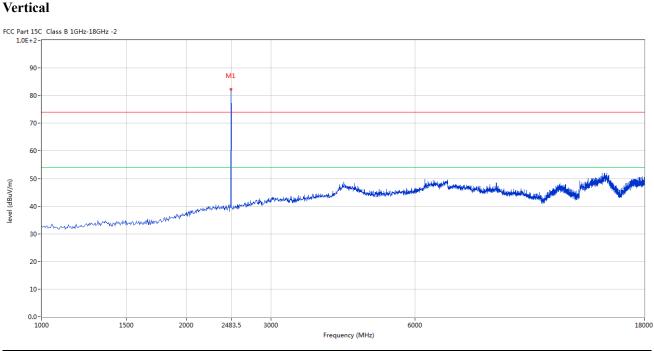


No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2479.405	85.57	-3.57	114.0	-28.43	Peak	267.00	100	Horizontal	Pass

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	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
Ī	1	2479.405	82.15	-3.57	114.0	-31.85	Peak	71.00	100	Vertical	Pass

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(3)Margin=Emission-Limits

- (4)According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (5) For test purpose, keep EUT continuous transmitting
- (5)For emission above 18GHz and Below 30MHz, It is only the floor noise. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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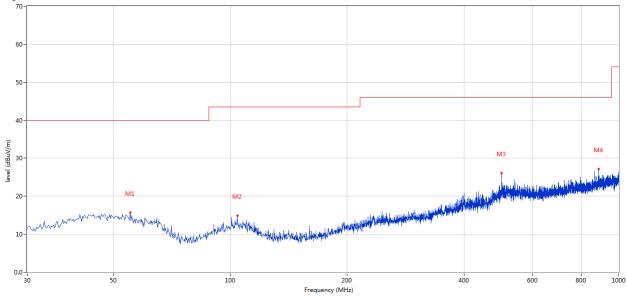
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	55.214	15.73	-11.83	40.0	-24.27	Peak	299.00	100	Horizontal	Pass
2	104.186	14.87	-13.30	43.5	-28.63	Peak	210.00	100	Horizontal	Pass
3	500.090	26.04	-6.91	46.0	-19.96	Peak	360.00	100	Horizontal	Pass
4	887.023	27.12	-2.08	46.0	-18.88	Peak	360.00	100	Horizontal	Pass

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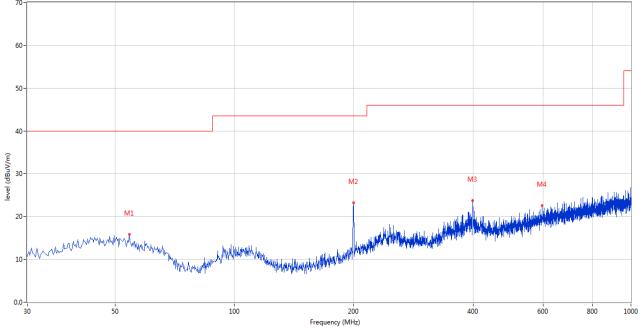
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	54.244	15.88	-11.60	40.0	-24.12	Peak	336.00	100	Vertical	Pass
2	199.950	23.22	-13.45	43.5	-20.28	Peak	360.00	100	Vertical	Pass
3	398.508	23.68	-8.65	46.0	-22.32	Peak	321.00	100	Vertical	Pass
4	596.823	22.59	-5.11	46.0	-23.41	Peak	360.00	100	Vertical	Pass

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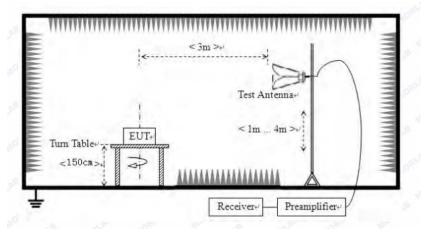


7. Band Edge

7.1 Test Method and test Procedure:

- The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7.2 Radiated Test Setup



For the actual test configuration, please refer to the related items - Photos of Testing

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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7.6 Test Result

-	Product:	MEC	HANICA KEYBO	L GAMING ARD		Polari	ity		Horizonta	al
	Mode	K	eping Tra	nsmitting		Test Vol	tage		DC3.7V	r
Te	mperature		24 deg	. C,		Humic	lity		56% RH	[
Te	est Result:		Pass	5						
C Part 1 1.0E+	15C Class B 1GHz-18GHz 2-	-2								
_									M1	
9	10-								/****	
8										
7	/0-									
e	i0 -								\	
								M2		
_	-									
5	i0-									
5	0-	enternistationelesseetittetusseeteet	ne da e the the best of the second	hatebenden testageben geten verste getelge	adentational production of the second second	M3		material	New York	Manut
4	0-	arige sub-third and a state of the state of the	ne ila izila il sate (alt facilit	hadbardet herestan esta raspetite	ikelana jara di Jawa Berakan			muterial land	N _h	hand
4	10	scherturritiekskaligensisse	wild the post of the state of the	salanto tanan sina dala	identera juga di seriati produce			material	N ,	(heghout)
3	10	ĸĸĬġĸĸĿĸĸŦŎĊĸĬŦĸĬŔġĸŎŎĬĬĬŔŢŎĿŔĬĬĸĸĸŔĸĸŎ	weble the first the state of the solution of the	hadaan de haran ee an	delan ina di anti di a			mundade de la composition de la composi		News
4	10	arligense friedenska fill for friedensk ga	wilder op fan de stade fan de f	haldrauffa Motorikan galan unter värifa	idedara japaniku (nuel ilmandua			muterische		New
4	10	arilynuaritikiriaitaitaitaitaitaita	unikaiseseskauseesen (aaside					muchanischer der		2410
4 3 2 1	0				Frequency (MHz)	nide n litte de vin det texte	140-into 140	gundesint bill		
4	0	Results	Factor	Limit	Frequency (MHz)		Table	Height	ANT	2410 Verdict
4 3 1 0 No.	0	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		Verdict
4 3 2 1	0	Results (dBuV/m) 86.33	Factor	Limit	Frequency (MHz)	nide n litte de vin det texte	Table		ANT Horizontal	Verdict N/A
4 3 1 0 No.	0	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		Verdict
2 1 0 No.	0	Results (dBuV/m) 86.33	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 12.33	Detector	Table (o) 272.00	(cm) 100	Horizontal	Verdict N/A

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Product:		MECHAP	NICAL G	AMING K	EYBOARD	De	Detector		Vertical		
Mode Temperature		Keeping Transmitting 24 deg. C,					Test Voltage Humidity		DC3.7V		
									56%	RH	
Tes	t Result:			Pass							
art 15C .0E+2-	Class B 1GHz-18GHz -2	2									
90-											
80-									M1		
70-											
60-											
50-									<u> </u>		
									1/2	1	
							M3		•		
40-	ted and attaction of a later and a the second state of the second state of the second state of the second state	rangek <mark>dan minantanan d</mark> hilan sindan jir	en ander son ander s	alianar o statu ya adi uzozzialih stata	artapasticidesalistasilitasilitasi	ishlifundi nilaya kafa anka Misali	M3	terratury segment and the W	*	Mahaman	
	ked cadatorenaan baba agerem hikelen sosia	novel der visionetherer detterstationske	en an	alaten panenali quotette ater	atanishi khiri juladdi tarih kurin	işi dağışlaşi işadi. Takı	M3	landar tipherida ter dalah ya	•		
40-	işd cadırı və səhərdə bi ayı və səhərdə bir səhərdə bir səhərdə bir səhərdə bir səhərdə bir səhərdə bir səhərdə	nanya kanan tahun sa dalama dalama tahun sa tahun sa sa	an a	otialaryskaspaðispodilasja	aradalar an	કર્યું અને પ્રોક કરે કે જ કરતાં છે. 	M3 Hysiquidari iyaga vei	insinenpennen side	•	- Andrewicker	
40- 30-	iyd cadartaraaladar, garweddir ogarweddir o garwyddir o garwyddir o garwyddir o garwyddir o garwyddir o garwyd	nange <mark>da</mark> n sejen et k ange di kina itakan di	en andre de constructiones	atanan yana padi wakata na	arte de la construction de la const	ig lehet sitzekter Paul	M3	taria non tana di M	۹ •		
40- 30- 20- 10-		norphanoiseathane dhiseoithinn,in	en, angeleg berneskang	atialan yan postu yan bala cia	ntepeikelen jong kitanjereren	રક્ષુ નિંહ પ્રદેશકોનું તમે જરત છે.	M3	iminnonjaerski i	*		
40- 30- 20- 10-		nney) dan oʻranshange diskani bolan da	en, angeleg den see dy ang	alialan sinta penditisasikala esan	Frequency (MHz)	i gi integriste nën Pare, të	M3	inin non an airte	n ●	241	
40- 30- 20- 10-		Results	Factor	Limit		Detector	M3	Height	ANT		
40- 30- 20- 10- 23	50	1			Frequency (MHz)		ise to the second second	Height (cm)	ANT	241	
40- 30- 20- 10- 23	50 Frequency	Results	Factor	Limit	Frequency (MHz)		ise to the second second	_	ANT	241	
40- 30- 20- 10- 23 No.	50 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		241 Verdict	
40- 30- 20- 10- 23	50 Frequency (MHz) 2402.562	Results (dBuV/m) 79.56	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 5.56	Detector Peak	Table (o)	(cm) 100	Vertical	241 Verdict N/A	

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	Product:	MEC	HANIC.	AL GAMIN	IG KEYBOA	ARD	Polarity Horizon			
	Mode		Kee	eping Transı	nitting		Test Voltage DC			C3.7V
Te	emperature			24 deg. C	· · · · · · · · · · · · · · · · · · ·		Humidity 56%			% RH
	est Result:			Pass			-	-		
CC Part 1 1.0E+	15C Class B 1GHz-18GH: -2-	z -2							I.	
g	90 -									
8	30 -		she was							
7	70-			""Pro-						
e	50 -		- MAN	<i>(</i> 1)	MA.					
			LO ^P		- Ng					
2 5	50-)	P		M2					
(m/Vudb)	10	and the second second	p		M2 •					
level (dBuV/m	10-	and the second	P		M2 * M1 M Market Marke	dagting das tings an angina nginangina nginangi	sfintalinistikaan soriaa fisioonaafi	hannin har sydar har a a ddydd	nanan kalengan kalebang met	rrythen de father open of the
level (dBuV/m 5	10 - Martine, i kanin di min di min di miningi kaningi ka	analysis and a second	P		M2 • • •	hate is the adaptive and an	gh Later Alex-son Provedor	hanis hat ying by a calify of	ner a sadari jaji dalah dalah dalah sada	arailee, de franke op en ske
level (dBuV/m 5	10-	and a subsection of the subsec	/		M2 10 10 10 10 10 10 10 10 10 10 10 10 10	dagti er da Manson film fan da Sant	มู่กับเขียนเสียนการค่างรักรรักษ์รู	latin (de La de la de la de la de la de la definit)	na na atang san katalan ang sang	milankhisingadh
level (dBuV/m 2	10 - Martine, i kanin di min di min di miningi kaningi ka	and a second and a s	/			hije, je to cenije generalise	gh salas sha kurrhe	hadis kada yin ku andida	an a	minal-integrati
4 level (dbu//m 3 3 5 1	10 - Martine, Harden Himbel unterhild 30 - 20 -	aniferi sen an an			2483.5		gir Lation Alexandra	lann for star star an airte	an a	2500
4 level (dbu//m 3 3 5 1	10		/		2483.5 Frequency (MH		gessteide		ner en ser fan han hen en een	2500
4 level (dbu//m 3 3 5 1	10	Results	Factor	Limit	2483.5		Table (o)	Height	ANT	
evel (d8r//m 3 2 1	10		Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MH	łz)				2500
evel (d8r//m 3 2 1	10	Results			2483.5 Frequency (MF Over Limit	łz)		Height		2500
(dpm)/mgp) 4 2 1 1 0 No.	10	Results (dBuV/m)	(dB)	(dBuV/m)	2483.5 Frequency (MH Over Limit (dB)	iz) Detector	Table (o)	Height (cm)	ANT	2500 Verdict

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-	Product:	MECH	ANICAL	GAMING KI	EYBOARD		Detecto	r	Vertica	al	
	Mode		Keeping	g Transmittin	g	T	Test Voltage DC			DC3.7V	
Te	mperature		24	4 deg. C,		Humidit	у	7 56% RH			
Τe	est Result:			Pass							
1.0E+ 9 8 7	15C Class B 1GHz-18GHz 2- 	-2	/~*****	M No							
3	10 - Ayrii Wilson (¹) in an an	terre den se de se se se se de la constante de		q	Manual Contraction of the State of Stat	nan alan salah salah salah sa	karanda liboda marang	tte Å bland, som en ende av en flortekoliky	te fatere en transferente en transferente en transferente en transferente en transferente en transferente en tr	¥¥₩×642-644	
3	булжинд бүлжилжин түрсэл бүлэг б 100 - 200 -	tanjibu shin shin na sa sa k			Man sinders his his dama si si	yeegenedise windoo ngdigaal wa	kerende komponisionen er som en som er so	in de la company de la comp	fe fan en de fan de	yundi.Uh	
3	10-	tanjanaka shter ayaatik			Mon on a sub-solution of the second	ne egi er eljet som de regeliges och	kerende lander van de	tel ländsaman setter myöselikki	Reference del Antonio en espe	yun di U/	
- 3 2 1 0	булжинд бүлжилжин түрсэл бүлэг б 100 - 200 -	tanjanaka shter nanokik		2483.5 Frec	Juency (MHz)	***	kerenki limbar manya	in a superior and a superior of the superior of	h-facenne-telenetannev	2500	
3 2 1 0	10- 10- 10- 10- 10- 10- 10- 10-	Results	Factor			Detector	Table	Height	ANT		
- 2 1 0.	10- 10- 10- 10- 10- 10- 2470		Factor (dB)	Freq	juency (MHz)				1	2500	
- 2 1 0.	00- 00- 00- 2470 Frequency	Results		Freq	juency (MHz) Over Limit		Table	Height	1	2500	

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 -1.85dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Product:	MECHAN	CAL GAMIN	RD .	Test Mode:		Keep transmitting			
Mode	K	Leeping Transn		Test Voltage	e				
Temperature	24 deg. C,				Humidity		56% RH		
Test Result:		Pass		Detector		P	K		
20dB Bandwidth		2.595MHz						-	
Ref Lvl 10 dBm	Mar ndB BW	ker 1 [T1 1 20 2.595190	.00 dB	RB VB SW	300 B	KHZ	F Att nit	20 dB dBm	
		1			▼1 nd	[T1]	-6 2.40241 20	.00 dB	A
-10			~~~^	\bigvee] [T1] 2 [T1]	-26	. <u>36 dBm</u> 220 GHz .27 dBm	
-30	TI					F2	2.40419		1M
-40							Mader	wi/mi	
-50									
-60									
- 70									
-90									
Center 2.	403 GHz		500 kH	z/			Spa	an 5 MHz	

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Product:	MECHANICAI	L GAMING KEYBOA	RD 7	Fest Mode:	Keep transmitting		
Mode	Keepi	ing Transmitting	Т	est Voltage	DC3.7V 56% RH		
Temperature		24 deg. C,		Humidity			
Test Result:	Pass			Detector		РК	
20dB Bandwidth		2.625MHz					
	Marker	r 1 [T1 ndB]	RBW	100 kHz	RF Att	20 dB	
Ref Lvl	ndB	20.00 dB	VBW	300 kHz		10	
10 dBm	BW	2.62525050 MHz	SWT	5 ms	Unit	dBm	
				▼1 [:	[1] –	7.28 dBm	
0					2.4404		
-		1		ndB BW	2.6252	0.00 dB 5050 MHz	
-10		$\overline{\Lambda}$	1		[T1] -2	7.45 dBm	
10					2.4395	6212 GHz	
-20		\sim V		T T T T T T T T	[T1] -2	7.23 dBm	
-20 1MAX	T1				2.4421	8737 GHz 1MA	
2.0	and the second				Ţ		
-30	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
-40					- Hall on worked		
a for the						When	
- 5 0						•	
-60							
-70							
- 80							
-90							
Center 2	.441 GHz	500	kHz/		Spa	an 5 MHz	
Date: 22	2.FEB.2022 1	3:54:59					

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Product:	MECHANICAL GAMING KEYBOARD					Test Mode:			Keep transmitting		
Mode	Keeping Transmitting					Test Voltage Humidity		;	DC3.7V 56% RH		
Temperature	24 deg. C,										
Test Result:			Pass			Detector			PK		
20dB Bandwidth		2.405MHz									
k		Marker	1 [T1 n	ldB]	R	BW	100 k	Hz R	F Att	20 dB	
Ref Lvl		ndB		00 dB	V	BW	300 k				
10 dBm 10		BW 2	2.404809	62 MHz	S	WT	5 m	s U	nit	dBn	ı
							▼1	[T1]		4.36 dBm	A
									2.47940	381 GHz	
0			1				ndB	3	20	0.00 dB	
					$ \land $			[T1]	2.40480	0962 MHz	
-10					, ×	\sim	My		2.47878	3257 GHz	
			\sim	\sim				(T1)	-2	4.53 dBm	
-20		Ţļ						T ²	2.48118	3737 GHz	1MA
-30											
	www	/							him		
-40 Jule										Winh	
-50											
-60											
-70											
- 80											
-90 Center 2	.48 GH7	2		500	kHz/				Spa	an 5 MHz	
	2.FEB.2			200					250		

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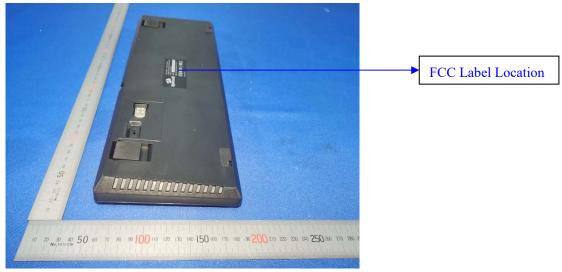
10.0 FCC ID Label

FCC ID: TUVET-8494

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

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

Mark Location:



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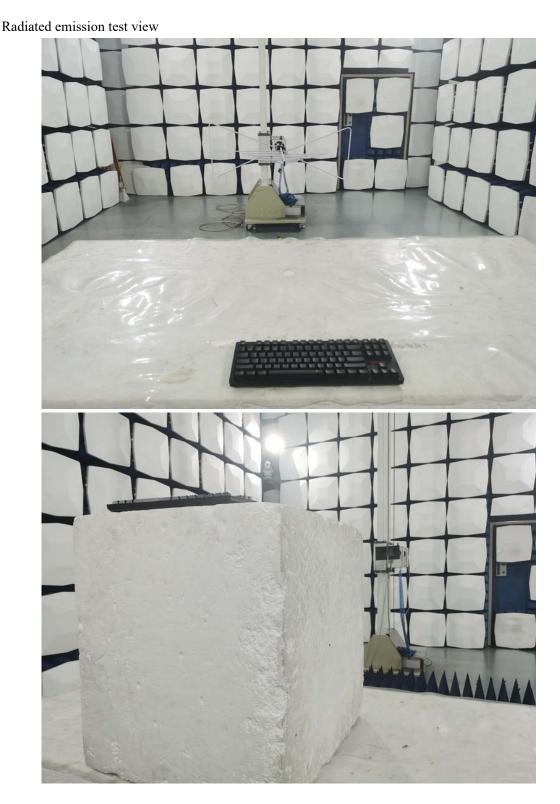
11.0 Photo of testing

11.1 Conducted test View--



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11.2 Photographs - EUT



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Photographs-EUT

Outside View





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Outside View



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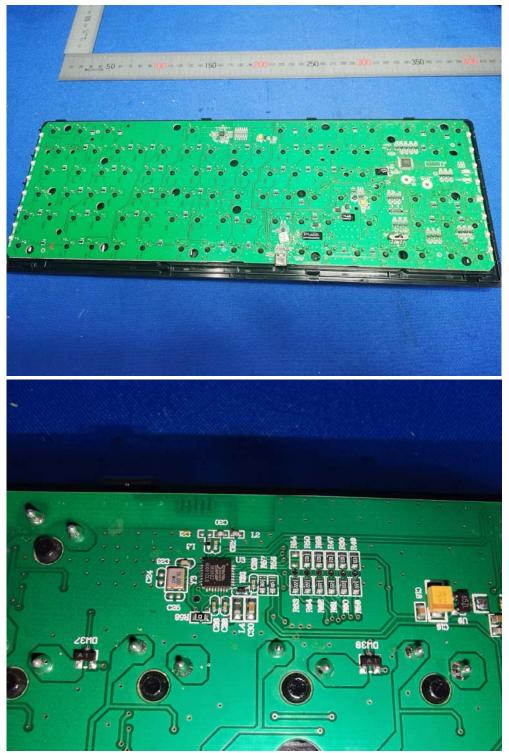
Inside view



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Inside view



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Inside view



--End of the report--

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