



Report No.: File Reference No.:	FCC 1912054 2019-12-16
Applicant:	Eastern Times Technology Co., Ltd.
Product:	GAMING KEYBOARD
Model No.:	REDRAGON
Trademark:	K530RGB, ET-8452, ET-8453, K530W-RGB
Test Standards: Test Result:	FCC Part 15.247 It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung Jack Chung

Manager

Dated:

December 16, 2019

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 CNAL. 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, China Telephone: (755) 83448688 Fax: (755) 83442996

### 1.2 Applicant Details

# Applicant:Eastern Times Technology Co., Ltd.Address:Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,<br/>Guangdong, ChinaTelephone:13077806581/0769-86800511Fax:--

### 1.3 Description of EUT

-	
Product:	GAMING KEYBOARD
Manufacturer:	Eastern Times Technology Co., Ltd.
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,
	Dongguan City, Guangdong, China
Brand Name:	REDRAGON
Additional Brand Name:	N/A
Model Number:	K530RGB
Additional Model Number	er: ET-8452, ET-8453, K530W-RGB
Type of Modulation	GFSK (Bluetooth BLE)
Frequency range	2402-2480MHz
Frequency Selection	By software
Channel Number	40
Rating:	DC5V or Built-in DC 3.7V, 3000mAh Li-ion battery
0 1 14 10 1 10	

- 1.4 Submitted Sample: 1 Samples
- 1.5 Test Duration 2019-12-06 to 2019-12-16
- 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB

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Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

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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	2019-06-21	2020-06-20			
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2019-06-21	2020-06-20			
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2019-06-21	2020-06-20			
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2019-06-21	2020-06-20			
Loop Antenna	EMCO	6507	00078608	2020-06-20	2020-06-20			
Spectrum	R&S	FSIQ26	100292	2019-06-21	2020-06-20			
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2019-06-21	2020-06-20			
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08			
Power meter	Anritsu	ML2487A	6K00003613	2019-08-22	2020-08-21			
Power sensor	Anritsu	MA2491A	32263	2019-08-22	2020-08-21			
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03			
9*6*6 Anechoic			N/A	2018-02-07	2021-02-06			
EMI Test Receiver	RS	ESVB	826156/011	2019-06-21	2020-06-20			
EMI Test Receiver	RS	ESH3	860904/006	2019-06-21	2020-06-20			
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2019-06-21	2020-06-20			
Spectrum	HP/Agilent	E4407B	MY50441392	2019-06-21	2020-06-20			
Spectrum	RS	FSP	1164.4391.38	2019-01-20	2020-01-19			
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2019-06-21	2020-06-20			
RF Cable	Zhengdi	7m		2019-06-21	2020-06-20			
RF Switch	EM	EMSW18	060391	2019-06-21	2020-06-20			
Pre-Amplifier	Schwarebeck	BBV9743	#218	2019-06-21	2020-06-20			
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2019-06-21	2020-06-20			
LISN	SCHAFFNER	NNB42	00012	2019-01-08	2020-01-07			

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### **3.0** Technical Details

### 3.1 Summary of test results

	ccording to the following speci		
Standard	Test Type	Result	Notes
CC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB	PASS	Complies
	bandwidth>500kHz		
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

# 3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

# 4.0 EUT Modification

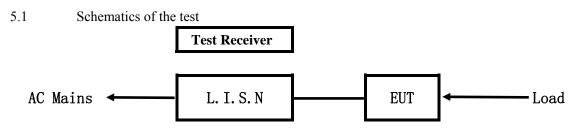
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

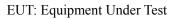
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# **5.**Power Line Conducted Emission Test

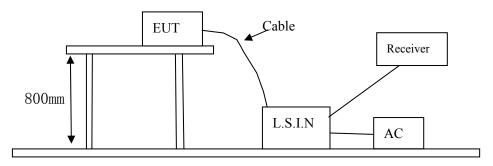




5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz Block diagram of Test setup



# 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

А.	EUT				
Device		Manufacturer	Model FCC ID		
GAMING KEYBOARD		Eastern Times Technology Co., Ltd.	K530RGB, ET-8452,ET-8453, K530W-RGB	TUVET-8452	

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	h.TV	S012BB80500200	Input: 100-240V~, 50/60Hz, 500mA;
			Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

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 and 15.107

Frequency		Class A Lim	its (dB µ V)	Class B Limits (dB µ V)		
	(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
	$0.15~\sim~0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
	0.50 ~5.00	73.0	60.0	56.0	46.0	
	$5.00 \sim 30.00$	73.0	60.0	60.0	50.0	

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

2. The tighter limit shall apply at the transition frequencies

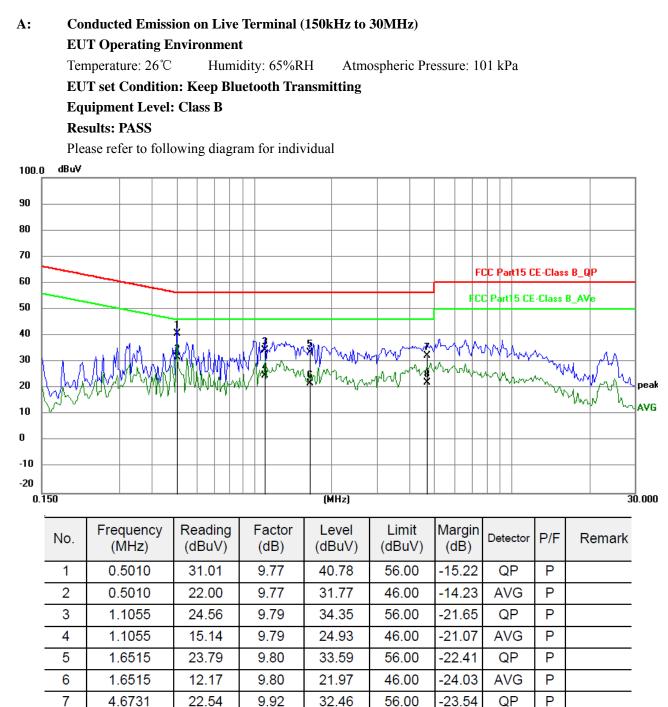
# 5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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12.12

9.92

8

4.6731

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22.04

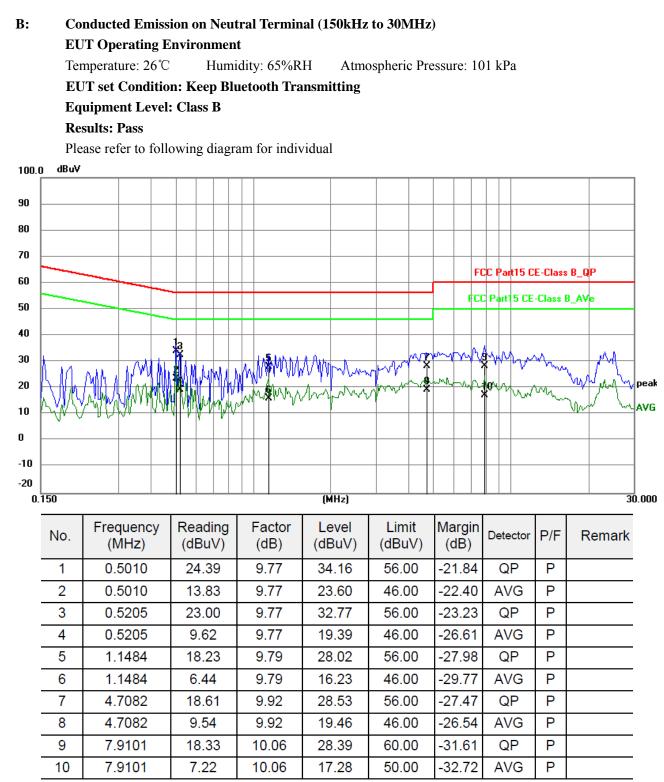
46.00

-23.96

AVG

Ρ





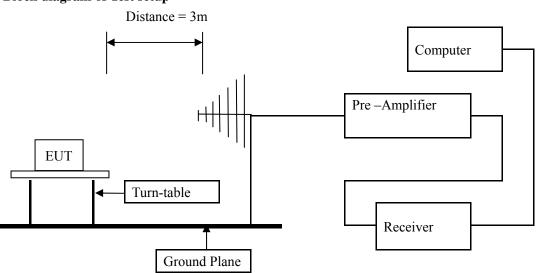
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# 6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. 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) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.



Block diagram of Test setup

- 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:

# Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Abov 960	3	54.0

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

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

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

4. Battery was fully charged during the radiated emissions test.

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# Test result General Radiated Emission Data and Harmonics Radiated Emission Data

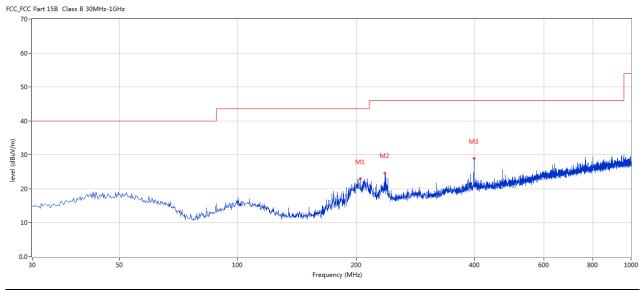
# Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Pass

**Results:** 





No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	205.041	22.92	-13.59	43.5	-20.58	Peak	68.00	200	Н	Pass
2	236.801	24.70	-12.34	46.0	-21.30	Peak	105.00	100	Н	Pass
3	398.265	28.92	-8.67	46.0	-17.08	Peak	360.00	200	Н	Pass

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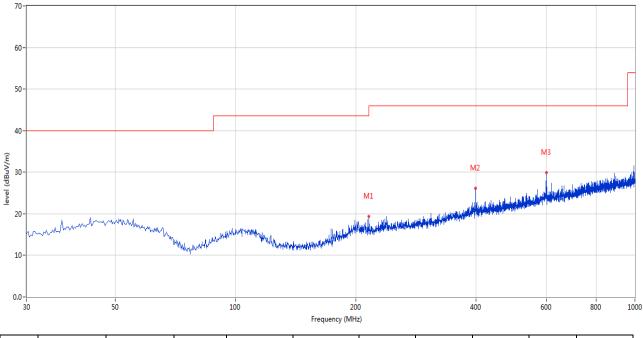
# Test result General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Keep Transmitting

**Results:** Test Figure: Pass

FCC\_FCC Part 15B 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	215.951	19.38	-13.60	43.5	-24.12	Peak	187.00	200	V	Pass
2	398.508	26.08	-8.65	46.0	-19.92	Peak	266.00	200	V	Pass
3	599.733	29.84	-4.98	46.0	-16.16	Peak	360.00	200	V	Pass

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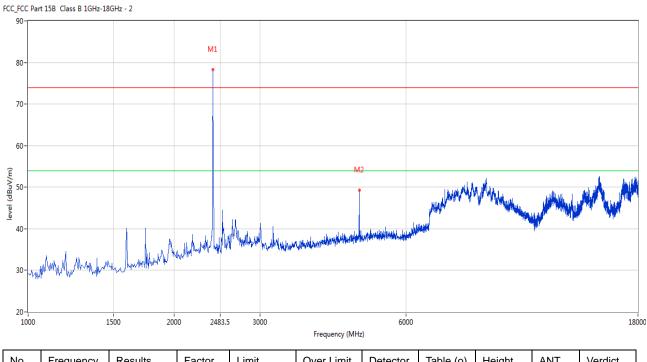
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### **Test Figures above 1GHz:**

Please refer to the following test plots for details:

### Low Channel: Vertical



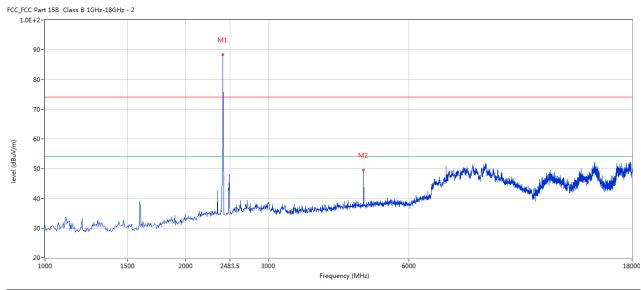
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4802.799	49.28	3.12	54.0	-4.72	Peak	272.00	100	V	Pass

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### Low Channel : Horizontal



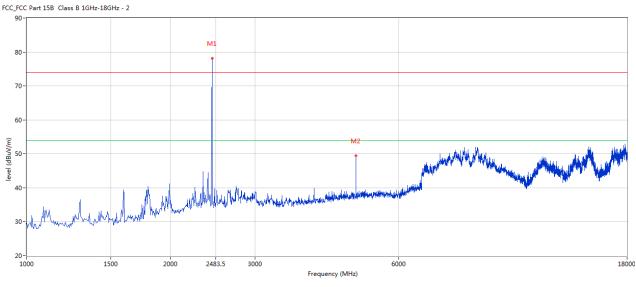
No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
2	4802.799	49.60	3.12	54.0	-24.40	Peak	238.00	100	Н	Pass

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**Middle Channel : Vertical** 



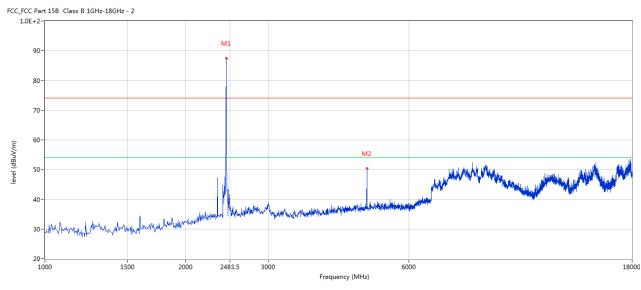
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4879.280	49.48	3.20	74.0	-4.52	Peak	267.00	100	V	Pass

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### Middle Channel : Horizontal



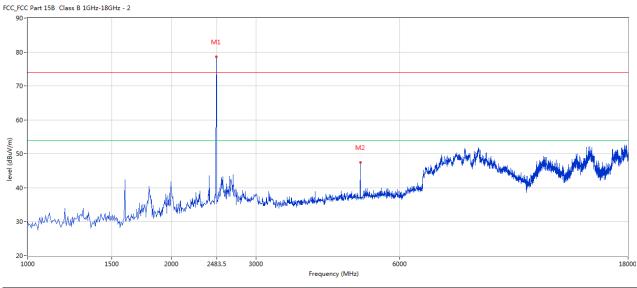
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4879.280	50.45	3.20	54.0	-3.55	Peak	259.00	100	н	Pass

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### **High Channel : Vertical**

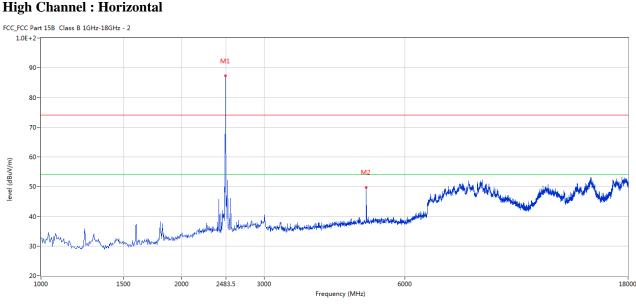


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4960.010	47.45	3.36	54.0	-6.55	Peak	212.00	100	V	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
2	4960.010	49.67	3.36	54.0	-4.33	Peak	242.00	100	Н	Pass

Note: 1. Level = Reading + AF + Cable - Preamp

2. For the radiated emissions above 18G, it is the floor noise.

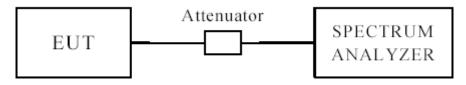
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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7.0 6dB Bandwidth Measurement7.1 Test Setup



# 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

# 7.3 Test Procedure

- 1. Set resolution bandwidth (RBW) = 100 kHz
- 2. Set the video bandwidth (VBW)  $\ge$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

# 7.4 Test Result

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

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# 6dB BW

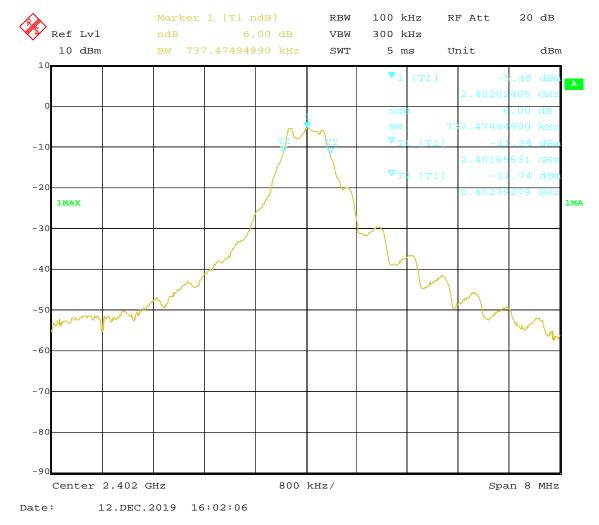
EUT		GAMING KE	YBOARD	Model		ł	K530RGB	
Mode		Keep Trans	smitting	Input Voltag	e	DC3.7V		
Temperate	ure	24 deg. C,		Humidity		56% RH		
Channel	Ch	annel Frequency (MHz)	6 dB Bandwidth (kHz)		М	inimum Limit (kHz)	Pass/ Fail	
Low	w 2402		737			500	Pass	
Middle	Middle 2440		754			500	Pass	
High	High 2480		7	37		500	Pass	

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# Test Figure: 1. Condition: Low Channel

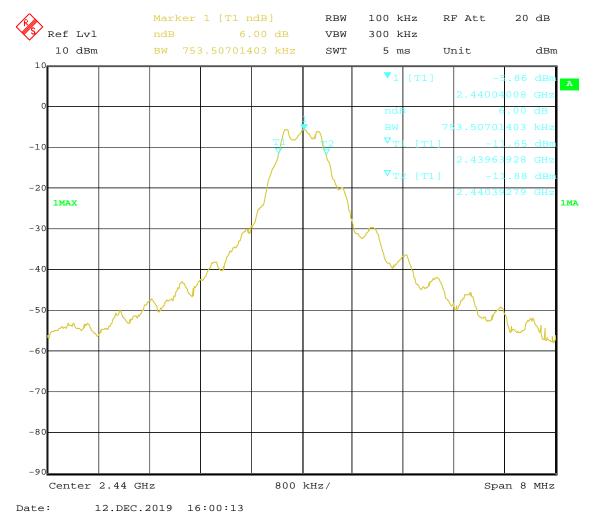


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### 2. Condition: Middle Channel



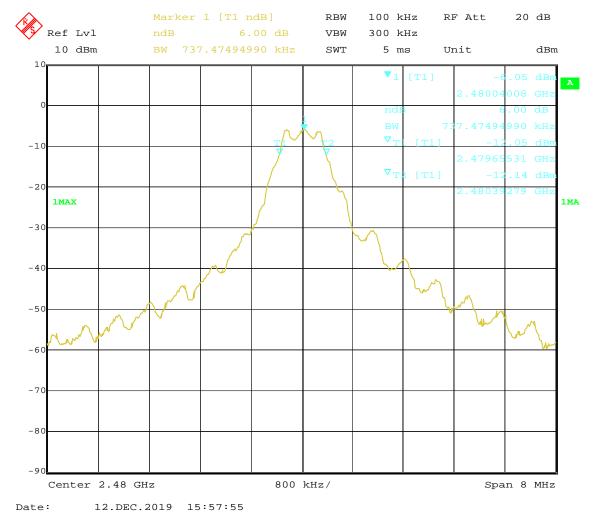
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### 3. High Channel

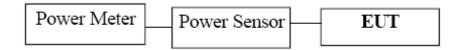


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8. Maximum Output Power 8.1 Test Setup



# 8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

# 8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

# Note: the Peak power were measured.

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# **8.4Test Results**

EUT		GAMING KEY	BOARD Model			K530RG	В
Mode		Keep Transm	nitting	Input Voltage		DC3.7V	I
Temperatu	Temperature 24 deg.		C, Humidity		56% RH		
Channel	Channel Frequency		Max	Max. Power Output (dBm)			Pass/ Fail
Chamler		(MHz)		Peak			
Low		2402		-5.07		30	Pass
Middle		2440		-5.33		30	Pass
High		2480		-5.60		30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

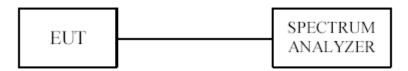
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# 9. Power Spectral Density Measurement

9.1 Test Setup



# 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

# 9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.

- 2. Set the RBW = 10 kHz.
- 3. Set the VBW  $\ge$  30 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be  $\leq 8$  dBm.

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

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# 9.4Test Result

EUT		GAM	ING KEYBO	DARD	Model	K5	30RGB	
Mode		Ke	ep Transmitt	ing	Input	DC3.7V		
					Voltage			
Temperat	ure		24 deg. C,		Humidity	56	% RH	
Channel	nnel Reading Loss		Final Po Densit	wer Spectral ty (dBm)	Maximum Limit (dBm)	Pass/ Fail		
Low	.ow -17.33 0.2		0.2	-17.13		8	Pass	
Middle	liddle -16.37 0.2		-	16.17	8	Pass		
High	High -15.55 0.2		-	15.35	8	Pass		

Note: The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss

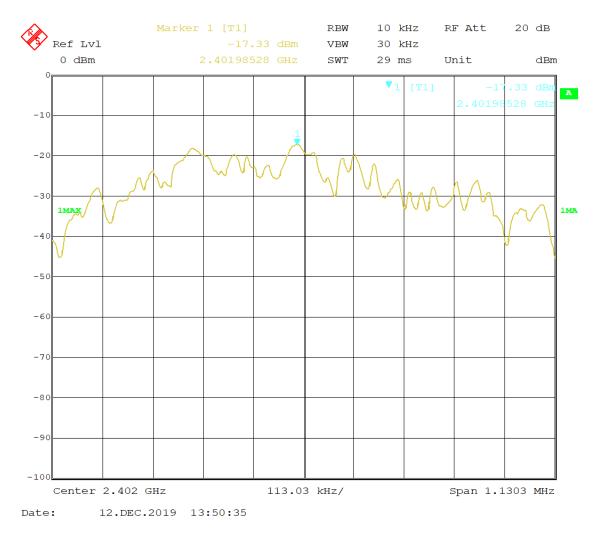
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# Test Figure: 1. Condition: Low Channel



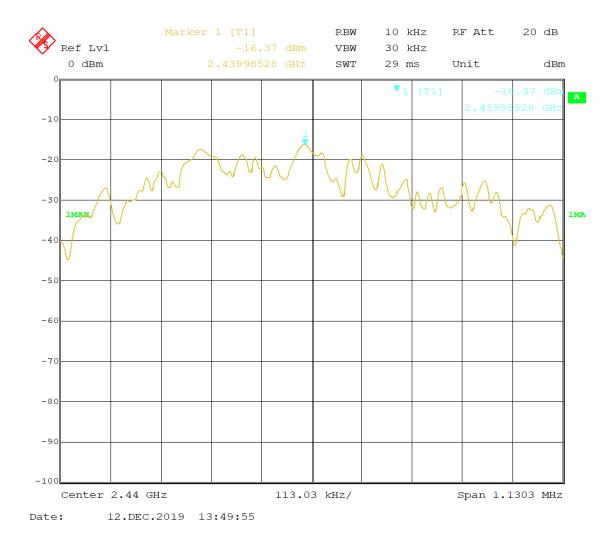
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# 2. Condition: Middle Channel



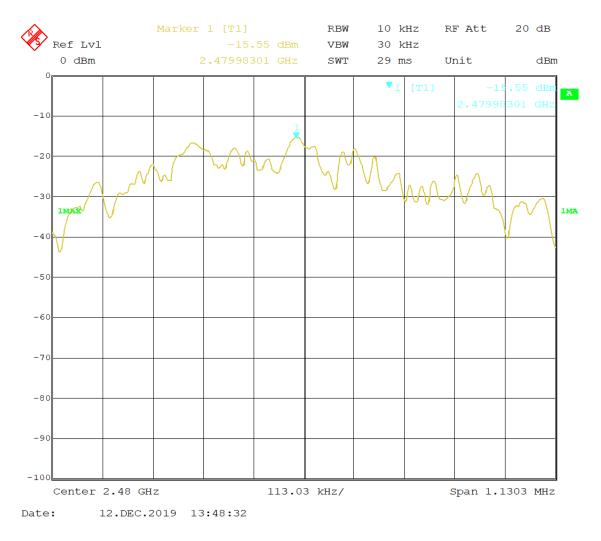
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# 3. High Channel

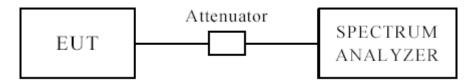


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**10 Out of Band Measurement 10.1 Test Setup for band edge** 



# The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

# 10.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

# **10.3 Test Procedure**

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

# **10.4 Test Result**

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

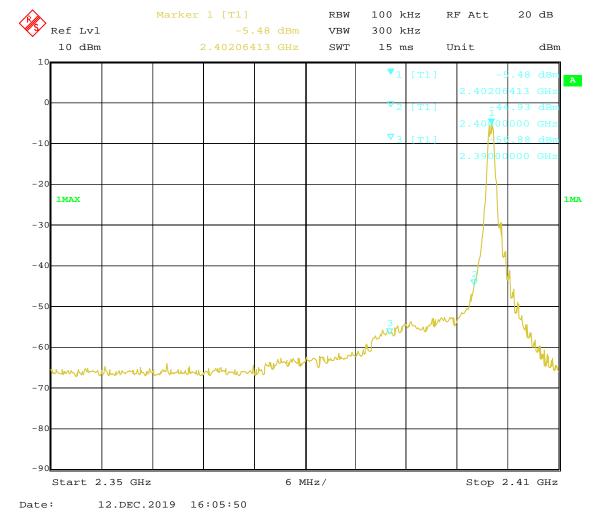
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### **10.4** Band-edge Measurement

EUT	GAMING KEYBOARD	Model	K530RGB
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	РК
Test Figure:			



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

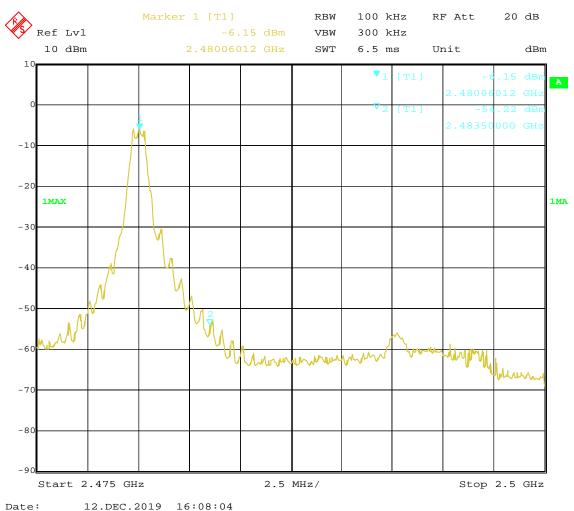
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### **10.4** Band-edge Measurement

EUT	GAMING KEYBOARD	Model	K530RGB
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	РК

# **Test Figure:**

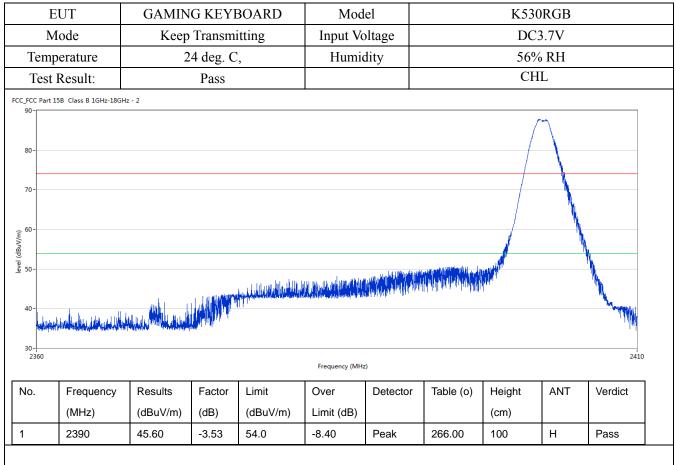


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### 10.4 Restrict Band Measurement



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Pastriat Dand Maguramont

10 /



EUT GAN		GAMI	ING KEYBOARD			Model		K530RGB		
Mode		Keep Transmitting		Inp	ut Voltage		DC3.7V		T	
Temperature			24 deg.	C,	H	Humidity 56% RH			[	
Test Result:		Pass						CHL		
C_FCC Part 15B Cl	ass B 1GHz-18GH	z - 2								
90-										
80-										
								ſ	wind	
70-								/		
60-										
50-										
50-								-		
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					Frequency (MHz	)				2410
30- 2360					requercy (wrize	,			-	
			_				<u> </u>			
No. Fi	requency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
No. Fi	requency //Hz) 390	Results (dBuV/m) 48.34	Factor (dB) -3.53	Limit (dBuV/m) 54.0	Over Limit (dB) -5.66	Detector Peak	Table (o)	Height (cm) 100	ANT V	Verdict Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

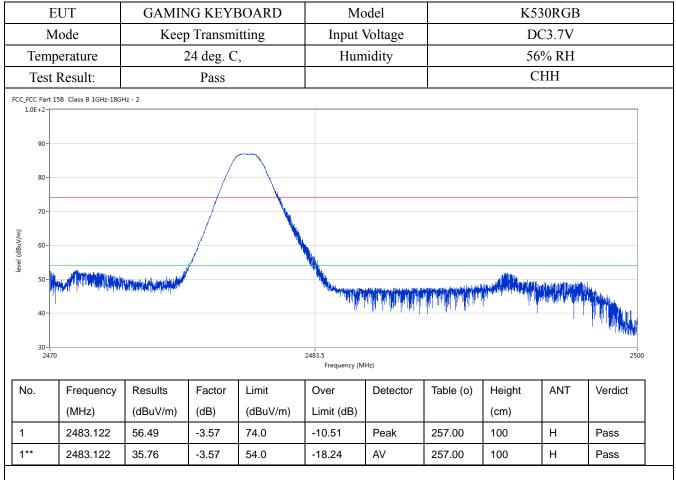
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### 10.4 Restrict Band Measurement



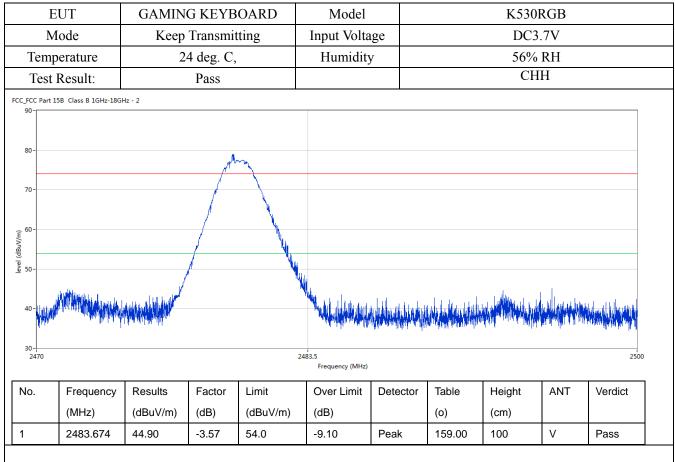
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10.4 Restrict Band Measurement	10.4	<b>Restrict Band Measurement</b>
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Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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## 11.0 Antenna Requirement

## 11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

## 11.2 Antenna Connected construction

PCB antenna used. The maximum gain of the antennas is 2.0dBi.

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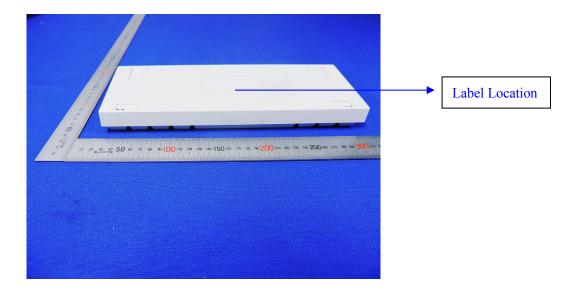
### 12.0 FCC ID Label

## FCC ID: TUVET-8452

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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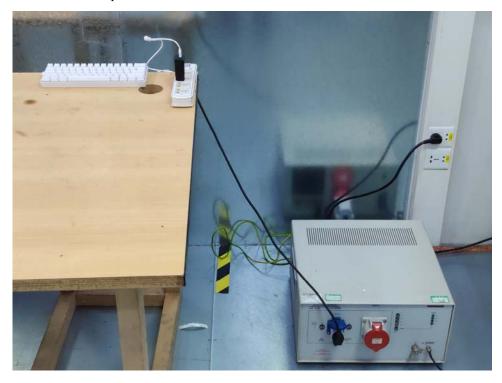
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#### **13.0** Photo of testing

Conducted Emission Test Setup:



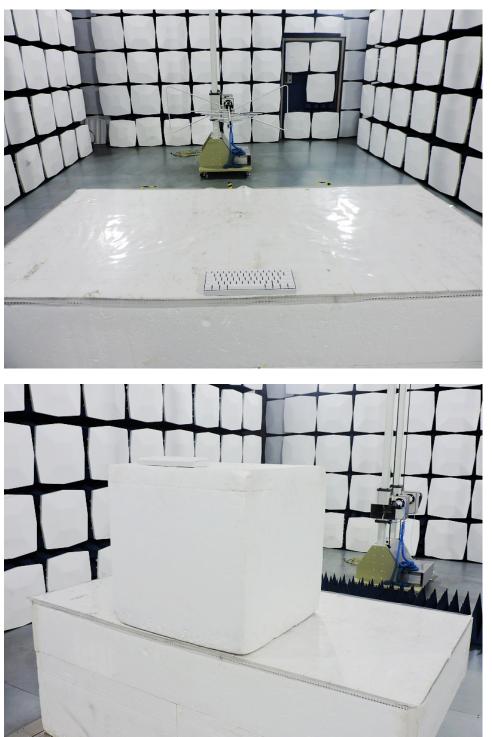
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Radiated Emission Test Setup:



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**Photographs – EUT** 



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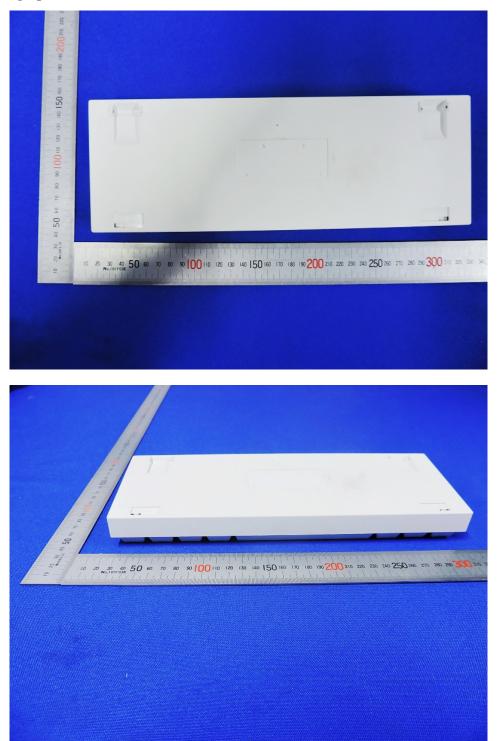
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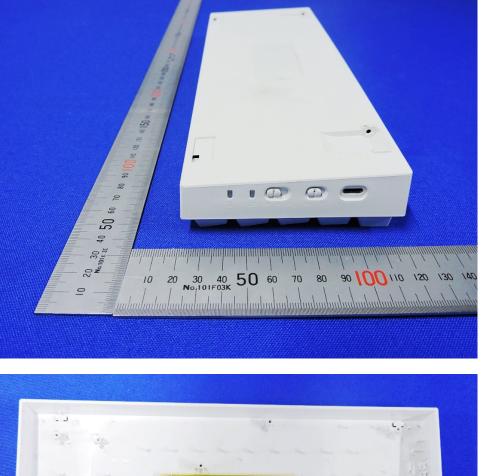
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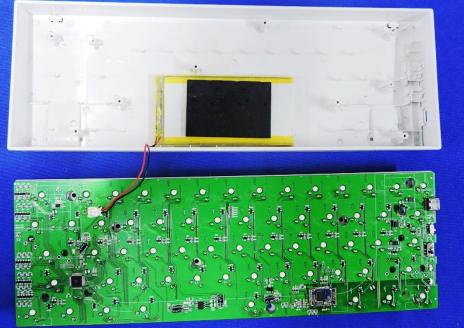
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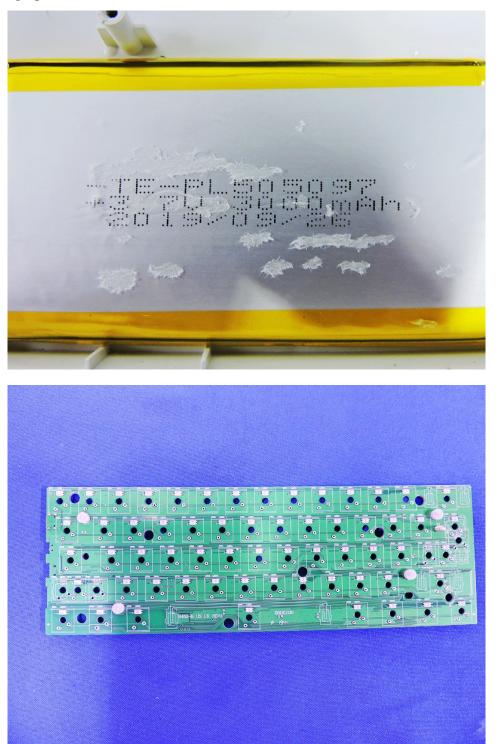


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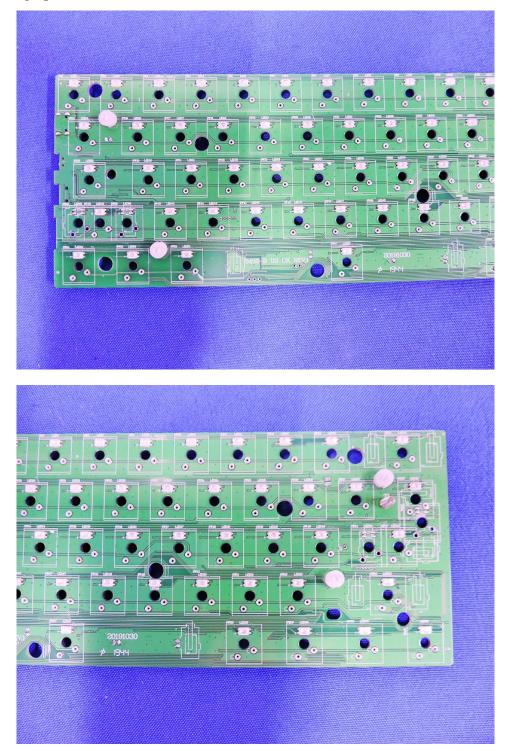
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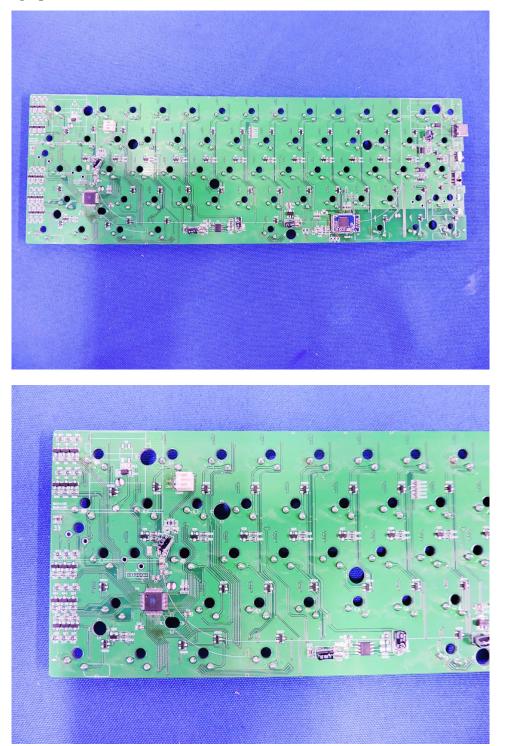


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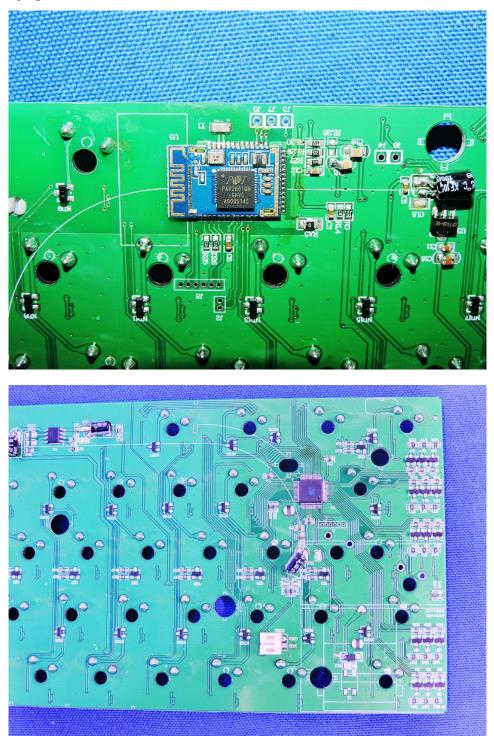


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End of the report

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