



File reference No.: 2022-03-22

Applicant: Eastern Times Technology Co.,Ltd

Product: MECHANICAL GAMING KEYBOARD

Model No.: K607P-KBS, ET-8499, ET-8523, ET-8527, ET-8666,

K607P-WBS, K607P-WRS, K607P-WNS, K607P-KRS,

K607P-KNS

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 Tang

Manager

Dated: March 22, 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 17025:2005 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

Date: 2022-03-22



Test Report Conclusion

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

11.0

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Photo of Test Setup and EUT View....

In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

Date: 2022-03-22



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: 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

Additional Trademark: N/A

Model Number: K607P-KBS

Additional Model Name ET-8499, ET-8523, ET-8527, ET-8666, K607P-WBS, K607P-WRS, K607P-WNS,

K607P-KRS, K607P-KNS

Serial No.: RDK607P-KBS21112900011

Rating: DC5V, 720mA or DC3.7V, 265mA Battery: DC3.7V, 1900mAh Li-ion battery

Modulation Type: GFSK

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation PCB antenna with gain -1.85dBi maximum (Declared by the Manufacturer)

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1.4 Submitted Sample: 1 pc

1.5 Test Duration

2021-05-13 to 2022-03-22

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	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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3.0 Technical Details

3.1 Summary of test results

The FIIT	hac haan	tacted ac	cardina ta	n tha fo	llowing	specifications:
	Has Deeli	testeu ac	corume a	0 1116 10)11(<i>) </i>	succincations.

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

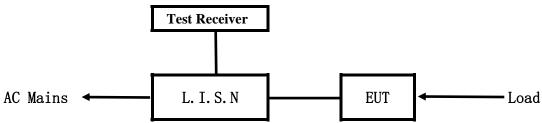
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

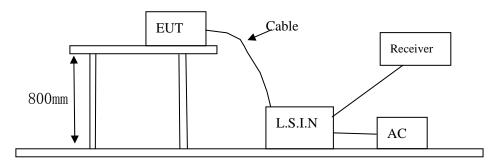


EUT: Equipment Under Test

5.2 Test Method and test Procedure

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

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
		K607P-KBS, ET-8499, ET-8523,	
MECHANICAL	Eastern Times	ET-8527, ET-8666, K607P-WBS,	TIMET 0400
GAMING KEYBOARD	Technology Co.,Ltd	K607P-WRS, K607P-WNS,	TUVET-8499
		K607P-KRS, K607P-KNS	

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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 C63.10-2013

- 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

0 01						
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)

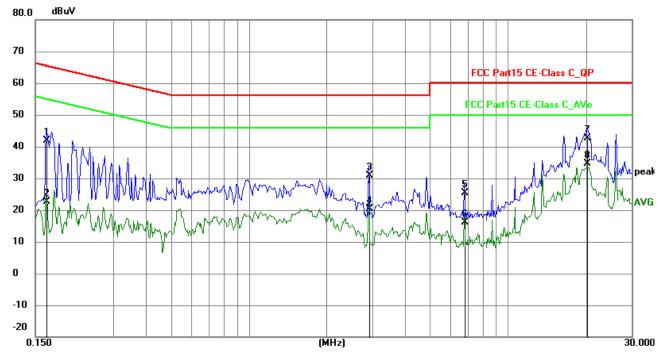
EUT Operating Environment

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

EUT set Condition: Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1655	32.07	9.77	41.84	65.18	-23.34	QP	Р
2	0.1655	12.92	9.77	22.69	55.18	-32.49	AVG	Р
3	2.9112	20.94	9.84	30.78	56.00	-25.22	QP	Р
4	2.9112	10.64	9.84	20.48	46.00	-25.52	AVG	Р
5	6.7791	15.36	10.00	25.36	60.00	-34.64	QP	Р
6	6.7791	6.22	10.00	16.22	50.00	-33.78	AVG	Р
7	20.2302	32.04	10.69	42.73	60.00	-17.27	QP	Р
8	20.2302	24.06	10.69	34.75	50.00	-15.25	AVG	Р

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

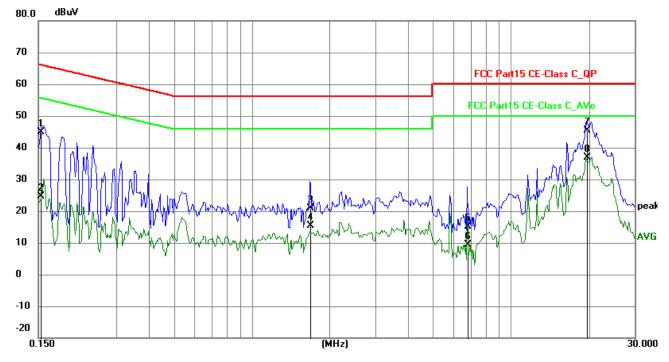
EUT Operating Environment

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

EUT set Condition: Communication by BT

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1539	35.11	9.78	44.89	65.79	-20.90	QP	Р
2	0.1539	14.78	9.78	24.56	55.79	-31.23	AVG	Р
3	1.6788	11.01	9.80	20.81	56.00	-35.19	QP	Р
4	1.6788	5.52	9.80	15.32	46.00	-30.68	AVG	Р
5	6.7830	5.08	10.00	15.08	60.00	-44.92	QP	Р
6	6.7830	-0.74	10.00	9.26	50.00	-40.74	AVG	Р
7	19.6686	34.78	10.66	45.44	60.00	-14.56	QP	Р
8	19.6686	26.17	10.66	36.83	50.00	-13.17	AVG	Р

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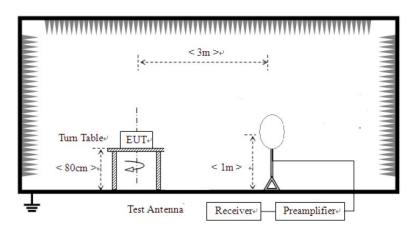


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. 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

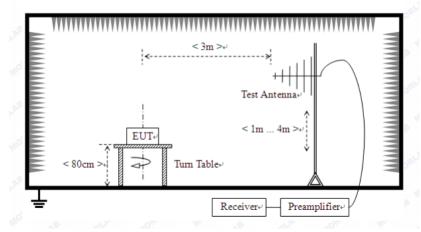
For radiated emissions from 9kHz to 30MHz



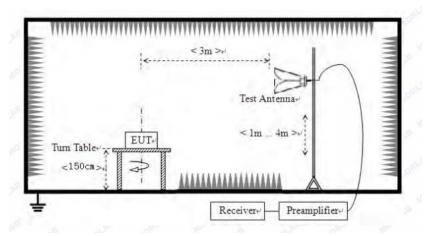
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition

 Same as section 5.4 of this report.

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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

Fundamental Frequency	Field Stre	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/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.

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
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
- 5. 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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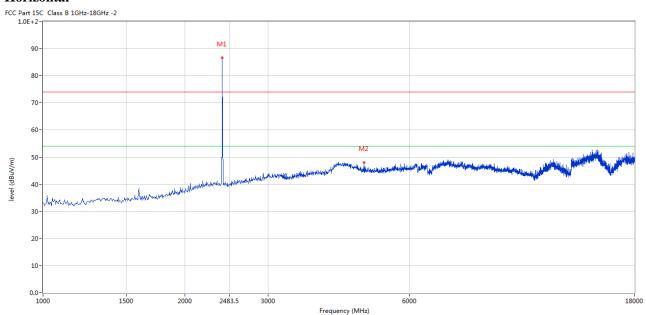
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6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2402MHz

Horizontal



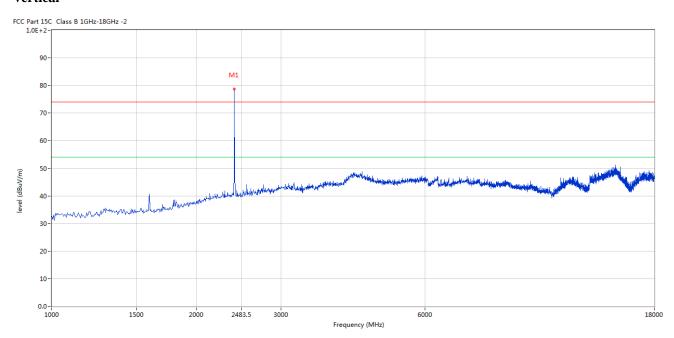
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.010	86.76	-3.57	114.0	-27.24	Peak	262.00	100	Horizontal	Pass
2	4802.799	48.10	3.12	74.0	-25.90	Peak	175.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.010	78.15	-3.57	114.0	-35.85	Peak	184.00	100	Vertical	Pass

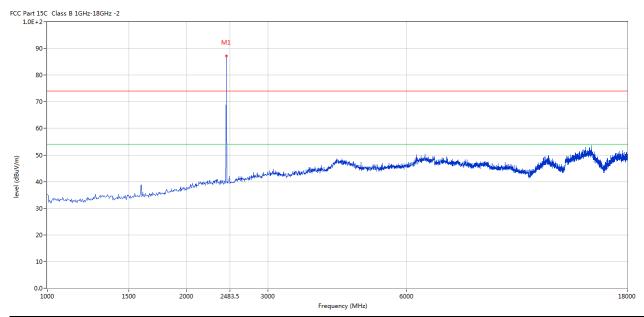
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



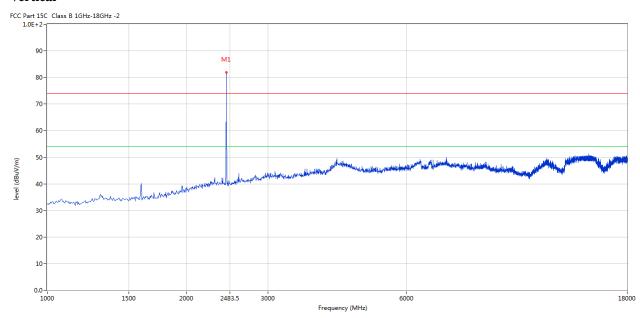
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2441.009	87.27	-3.57	114.0	-26.73	Peak	263.00	100	Horizontal	Pass

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Vertical



Ν	lo.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1		2441.009	81.90	-3.57	114.0	-32.10	Peak	205.00	100	Vertical	Pass

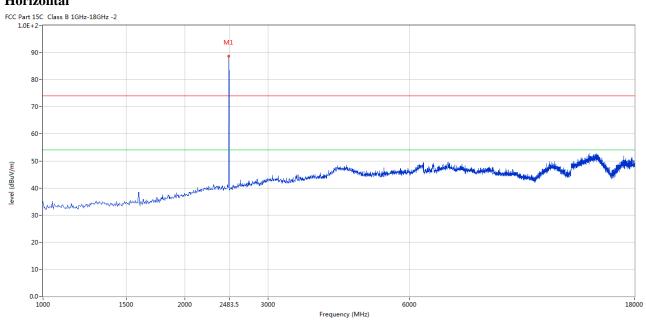
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



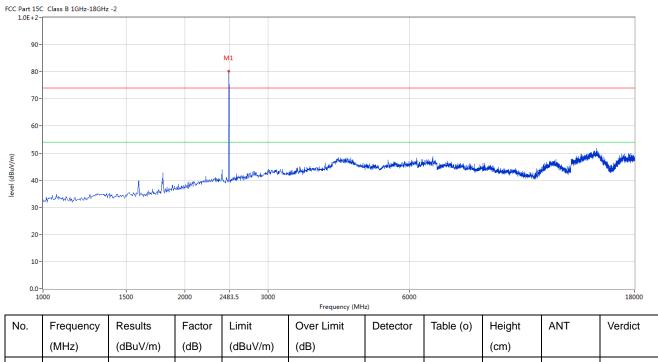
	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
Ī	1	2480.009	88.60	-3.57	114.0	-25.4	Peak	253.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2480.009	80.46	-3.57	114.0	-33.54	Peak	218.00	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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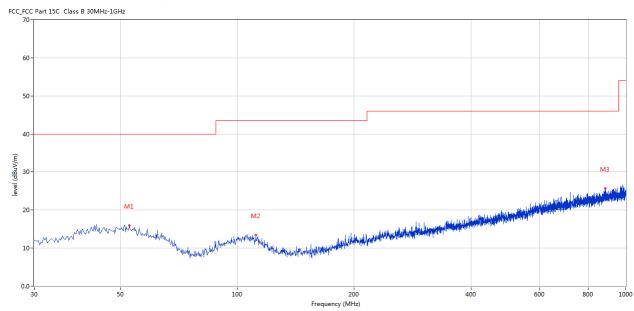


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	52.789	15.94	-11.48	40.0	-24.06	Peak	213.00	100	Horizontal	Pass
2	111.702	13.43	-13.76	40.0	-26.57	Peak	230.00	100	Horizontal	Pass
3	884.599	25.74	-2.07	47.0	-21.26	Peak	302.00	100	Horizontal	Pass

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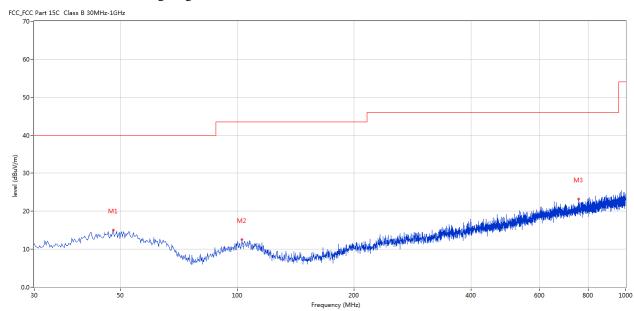


Radiated Emission In Vertical (30MHz----1000MHz)

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	47.941	15.05	-11.30	40.0	-24.95	Peak	283.00	100	Vertical	Pass
2	102.732	12.53	-13.39	43.5	-30.97	Peak	275.00	100	Vertical	Pass
3	756.591	23.23	-3.30	46.0	-22.77	Peak	360.00	100	Vertical	Pass

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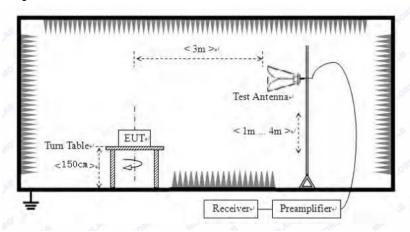


7. Band Edge

7.1 Test Method and test Procedure:

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

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

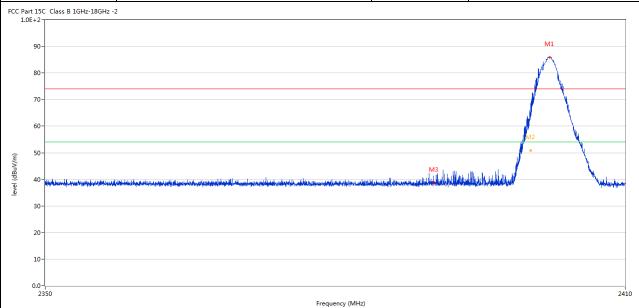
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7.6 Test Result

Product:	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 Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402.112	85.95	-3.57	74.0	11.95	Peak	254.00	100	Horizontal	N/A
2	2400.087	62.47	-3.57	74.0	-11.53	Peak	61.00	100	Horizontal	Pass
2**	2400.087	50.76	-3.57	54.0	-3.24	AV	61.00	100	Horizontal	Pass
3	2390.040	38.78	-3.53	74.0	-35.22	Peak	229.00	100	Horizontal	Pass

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3

2390.025

40.34

-3.53

74.0



	roduct:	MECHA			KEYBOARI		tector		Vertical	
l	Mode		Keepi	ng Transmit	ting	Test	Voltage		DC3.7V	
Ten	nperature		2	24 deg. C,		Hu	midity		56% RH	
Tes	t Result:			Pass						
Part 150	Class B 1GHz-18GHz	-2								
90-									M1	
80-									m.	
70-									/\	
									ľ	
60-									\\	
60 - 50 -								ا - الله اله ما اله		
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50- 40- 30- 20- 10- 0.0- 23		Results	Factor	Limit			Table (o)	Height	ANT	2410
50- 40- 30- 20- 10- 0.0- 23	550				Frequency (MHz)		Height (cm)		2410
50- 40- 30- 20- 10- 0.0- 23	Frequency	Results	Factor	Limit	Frequency (MHz)		_		2410
50 - 40 - 30 - 20 - 10 -	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz Over Limit (dB)	Detector	Table (o)	(cm)	ANT	2410 Verdict

Peak

100

133.00

-33.66

Pass

Vertical

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P	roduct:	MECHA	ANICAL	GAMING	KEYBOARD	Po	olarity		Horizontal				
]	Mode		Keepi	ng Transmit	tting	Test	Voltage	DC3.7V					
Ten	nperature		,	24 deg. C,		Hu	ımidity		56% RH				
Tes	st Result:			Pass									
Part 150 1.0E+2- 90- 80- 70- 60-	C Class B 1GHz-18GHz	-2											
50 - 40 -		المعارضة والمعارضة والمعار	W		M2	والمصدرة المسادورة المراجعة	ymaattuskalankeenskalantiin taaksaap	أرأوا والمطورة والمعارض والمتعارض والمعارض والمعارض والمتعارض والم	سيطرية أوأب سنده والوائرة طاعه فلاما تعليد	Majordis productor			
		والمراجعة والمستواد المستواد المستود المستواد المستواد المستود الم			M2	the ward in red the law.	graphista de riconomia de calenda de la comp	alise ann an Aranton, or dealth after full	assignikha aran John da daparahan ka	Marijadisə oplydiquise,			
40- 30- 20- 10-	pro-more burg deline account destroy	usian menindusun din sebengki dalah dari berapak dalah dari berapak dalah dari berapak dalah dari berapak dalah			MZ 2483.5 Frequency (MHz)	ita madaminishi me	oppdett til der til stage på de stå ette de ser til	Min agra adirestry ye hadibi de	nya fakika wwa njeki a dispika kami e n				
40- 30- 20- 10- 0.0- 24	prie nasistro y deline acaptumente l'assiss	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz)	Detector	Table (o)	Height (cm)	ANT	2500			
40- 30- 20- 10- 0.0- 24	Frequency	Results			Over Limit (dB)	Detector	Table (o)	Height		2500 Verdict			
40- 30- 20- 10-	Frequency (MHz)	Results (dBuV/m)	(dB)	(dBuV/m)	Over Limit C (dB) 14.08 F		, ,	Height (cm)	ANT	z500			

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P	roduct:	MECH.	ANICAL	GAMING	KEYBOARD	De	etector	Vertical				
	Mode		Keepi	ng Transmit	ting	Test	Test Voltage DC3.7					
Ten	nperature		24 deg. C,					56% RH				
Tes	st Result:			Pass								
C Part 15 1.0E+2	C Class B 1GHz-18GHz	-2										
90												
80			ىل.	Mark								
70			م الريل	Nu.								
	1		X									
60				Wy								
60· 50·				Wy	M2							
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50 ·	- Akarabahahahahaka wakamanii	instruction and said to be seen the desired	and the second second	Way	Marielade, Diguela	Million of the state	udalahik berilahik	inanyaka da jirjillah ki indistra	danilasihdi. Ondhalillasha	ikoli-da Militarika		
50 · 40 · 30 ·	- Akaa johalukula diseka wakayoo jii	anapad din dikadik basa dibad	and the second second	Wy	And the state of t	http://doi.org/10.141/bj.gd/	سراها فالمالي والمباهور	torphonet Making dist	davidasih dipulada da da	appy, dee Melde geleker		
50 · 40 · 30 · 20 · 10 ·	- Akat johnlulululululus se akamanu	anaya dalam dala addigi kaca dalam d	AND THE PROPERTY OF THE PARTY O	May 1	Marie	hdishdised (r. 1, dd de sign)	n de de la	i, mayakada i, jalka ki da kidad	المرسأة بالمألية المراس المالية المراس	a port de Melle plade.		
50· 40· 30· 20· 10·	- Akat johnlulululululus se akamanu	ing publisher Advishing his son Advisor	AND THE PROPERTY OF THE PARTY O	May 1	2483.5 Frequency (MHz)	http://diseases.hatcher.ets		i mayaka Misiri Makaka da Abdal	da, politic più de principale de la decen	2500		
50· 40· 30· 20· 10· 0.0· 2.	the combined by the constraint of the constraint	Results	Factor	Limit	2483.5 Frequency (MHz)	Detector	Table (o)	Height	ANT			
30· 20· 10· 2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	470	and the second of the second o	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MHz)					2500		
30· 20·	470 Frequency	Results			2483.5 Frequency (MHz) Over Limit (dB)			Height		2500		

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

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8.0 Antenna Requirement

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain -1.85dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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FSK Modulation									
Product:	MECHAN	ICAL GAMI	NG KEYBO	DARD	Test Mod	le:	Keep tr	ansmitting	
Mode	I	Keeping Tran			Test Volta	ge	DO	C3.7V	
Temperature		24 deg.		Humidit	y	56	% RH		
Test Result:		Pass			Detector	r		PK	
0dB Bandwidth		1.293M	Hz						
	Mark	er 1 [T1	ndB]	RBW	30 kI	Hz RI	7 Att	20 dB	
Ref Lvl	ndB		.00 dB	VBW	100 kH			_	
10 dBm	BW	1.29258	517 MHz	SWT	8.5 ms	s Uı	nit	dBn	1
					v ₁	[T1]	_	6.96 dBm	۱
0							2.4020	0902 GHz	
					ndB BW		1.2925		
-10			√ √		$oldsymbol{ abla}_{ ext{Tl}}$	[T1]	-2	6.92 dBm	1
-10				سكر			2.4014	1984 GHz	
			N	4	√ [∇] T2	[T1]	-2	8.00 dBm	L
1MAX			•			h	2.4027	1242 GHz	1
-30		$\overline{}$				<u> </u>			
-40		•				Wy			
-50							TANK Y	~~	
and a second							V		
-60								٧	
-70									
-80									
-90									

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Product:	MECHANICAL GAMING KEYBOARD						est Mode:		Keep transmitting		
Mode	Keeping Transmitting						est Voltage		DC	23.7V	
Temperature		2	4 deg. C,			I	Humidity		569	% RH	
Test Result:			Pass				Detector]	PK	
OdB Bandwidth		1.	.160MHz								
Ŕ		Marker	1 [T1 n	ndB]	R	BW	30 k	Hz R	F Att	20 dB	
Ref Lvl		ndB	20.	00 dB	V	BW	100 k	Hz			
10 dBm		BW 1	L.160320	64 MHz	S	WT	8.5 m	s U	nit	dBm	n
10							v ₁	[T1]	- 6	.88 dBm	
									2.44100	902 GHz	A
0							ndB		20	0.00 dB	
					ή,		BW ▽ _T 1	5	1.16032		
-10					\	اما	* T1	[T1]	2.44048	7.19 dBm 3597 GHz	
				\checkmark		<i>ا</i> لم	$ abla_{\mathrm{T2}}$	[T1]	-26		
-20							<u>├</u> ~		2.44164	629 GHz	
-30			TI V					T2			1M
	/	~	V								
-40	- January							1	J.,		
-50										d mm	
-60										V	
-70											
-80											
-90											ļ
Center 2	.441 GH	[z		300	kHz/				Spa	an 3 MHz	

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GFSK Modulati	ion											
Product:	MECHANICAL GAMING KEYBOARD						est Mode:		Keep transmitting			
Mode	Keeping Transmitting						Test Voltage		DC3.7V			
Temperature		2	4 deg. C,]	Humidity		56%	6 RH		
Test Result:			Pass				Detector		F	PK		
20dB Bandwidth		1.	058MHz									
Ŕ		Marker	1 [T1 r	ndB]	I	RBW	30 k	Hz R	F Att	20 dB		
Ref Lvl		ndB		00 dB	7	VBW	100 k					
10 dBm		BW 1	.058116	523 MHz		SWT	8.5 m	s U	nit	dBm	1	
10							v ₁	[T1]	-6	.93 dBm	A	
									2.48000	902 GHz		
0							ndE		20	.00 dB		
				~	Ą		BW ▽ _{T1}	[T1]	1.05811	623 MHz		
-10				~	<u></u>	ጌ			2.47952	806 GHz		
			,	\mathcal{N}		h	$ abla_{\mathrm{T}_{2}}$	[T1]	-27	.05 dBm		
-20			^/				1		2.48058	617 GHz	1	
-30			Z ^T Z				Ţ	2			1MA	
			V									
-40	m	/						Min	Manage			
-50									1	John		
-60										\		
-70												
-80												
-90 Center 2	.48 ਫ਼ਸ	z.		300	kHz.	/			Sna	n 3 MHz		
	MAR. 20		38:38	500	/				Б₽а	5 1.112		

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10.0 FCC ID Label

FCC ID: TUVET-8499

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





Photographs - EUT

Please refer test report TW2105203-01E

-- End of the report--

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

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