

# **TEST REPORT**

FCC ID: TUVET-8286

Product: Wireless/Wired Mechanical Gaming Keyboard

**Model No.: Mercury** 

Additional Model: ET-8286

Trade Mark: N/A

Report No.: TCT180517E017

Issued Date: Jun. 21, 2018

Issued for:

Eastern Times Technology Co., Ltd.

Building D, Nan An Industry Park, Youganpu Village, Fenggang Town,
Dongguan City, Guangdong, China

Issued By:

Shenzhen Tongce Testing Lab.

1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

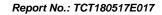
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#### 1. Test Certification

Product:	Wireless/Wired Mechanical Gaming Keyboard	
Model No.:	Mercury	(C)
Additional Model:	ET-8286	
Trade Mark:	N/A	
Applicant:	Eastern Times Technology Co., Ltd.	
Address:	Building D, Nan An Industry Park, Youganpu Village, Fenggang To Dongguan City, Guangdong, China	own,
Manufacturer:	Eastern Times Technology Co., Ltd.	
Address:	Building D, Nan An Industry Park, Youganpu Village, Fenggang To Dongguan City, Guangdong, China	own,
Date of Test:	May 18, 2018 – Jun. 20, 2018	
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249	

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Date: Jun. 20, 2018

Rleo

Reviewed By:

Date:

Jun. 21, 2018

Beryl Zhao

**Tomsin** 

Approved By:

Date:

Jun. 21, 2018



# 2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	N/A
Field Strength of Fundamental	§15.249 (a)	PASS
Spurious Emissions	§2.1053 §15.249 (a) (d)/ §15.209	PASS
Band Edge	§2.1053 §15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§2.1049 §15.215 (c)	PASS

#### Note:

- 1. Pass: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.







# 3. EUT Description

Product:	Wireless/Wired Mechanical Gaming Keyboard
Model No.:	Mercury
Additional Model:	ET-8286
Trade Mark:	N/A
Hardware Version:	MA19F05(QFN88) (TX)
Software Version:	ET-DualLedKeyboard-MA195BB_Include_BootLoader-1706 13-2.00-0101-BAC0.hex(TX)
Operation Frequency:	2410 - 2468MHz
Number of Channel:	30
Modulation Technology:	FSK
Antenna Type:	PCB Antenna
Antenna Gain:	-2dBi
Power Supply:	DC 7.4V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.





#### **Operation Frequency Each of Channel**

Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2410 MHz	10	2430 MHz	20	2450 MHz
1 (2	2412 MHz	11	2432 MHz	21	2452 MHz
2	2414 MHz	12	2434 MHz	22	2454 MHz
3	2416 MHz	13	2436 MHz	23	2456 MHz
4	2418 MHz	14	2438 MHz	24	2458 MHz
5	2420 MHz	15	2440 MHz	25	2460 MHz
6	2422 MHz	16	2442 MHz	26	2462 MHz
7	2424 MHz	17	2444 MHz	27	2464 MHz
8	2426 MHz	18	2446 MHz	28	2466 MHz
9	2428 MHz	19	2448 MHz	29	2468 MHz

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2410MHz
The middle channel	2440MHz
The Highest channel	2468MHz





### 4. Genera Information

#### 4.1. Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

#### 4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1 (0)	1 6	) /	(6) 1	

#### Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.





#### 5. Facilities and Accreditations

#### 5.1. Facilities

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

• FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

#### 5.2.Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,

Shenzhen, Guangdong, China

TEL: 86-755-27673339

#### 5.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
<b>d</b>	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1GHz)	±3.92dB
5	All emissions, radiated(>1GHz)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



#### 6. Test Results and Measurement Data

#### **6.1.Antenna Requirement**

Standard requirement:

FCC Part15 C Section 15.203

15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **E.U.T Antenna:**

The EUT antenna is PCB antenna which permanently attached, and the best case gain of the antenna is -2dBi.



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## **6.2.Conducted Emission**

#### 6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15 207	(cô			
•		113.207				
Test Method:	ANSI C63.10:2013					
Frequency Range:	150 kHz to 30 MHz					
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto			
	Frequency range	Limit (	dBuV)			
	(MHz)	Quasi-peak	Average			
Limits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
Test Setup:	AUX Equipment  Test table/Insulation plane  Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m					
Test Mode:	Transmitting mode wit	h modulation	100			
Test Procedure:	1. The E.U.T and simple power through a line (L.I.S.N.). This present impedance for the number of the power through a Language coupling impedance refer to the block photographs).  3. Both sides of A.C. conducted interfere emission, the relative the interface cable ANSI C63.10:2013	e impedance state ovides a 500hm neasuring equipm ces are also connects with 500hm terridiagram of the line are checkence. In order to five positions of equals must be changed.	cilization network of hospital points of the main of the main of the main of the main of the maximum of the max			
Test Result:	N/A; Because the EUT is powered by the battery, so the item is not applicable.					



#### 6.3. Radiated Emission Measurement

#### 6.3.1. Test Specification

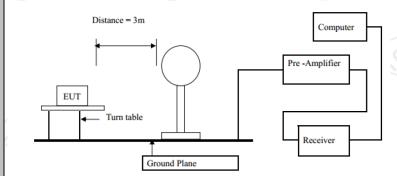
Test Requirement:	FCC Part15	C Section	า 15.209/	FCC Part15 C Section 15.209/ Part 2 J Section 2.1053				
Test Method:	ANSI C63.10:2013							
Frequency Range:	9 kHz to 25 GHz							
Measurement Distance:	3 m							
Antenna Polarization:	Horizontal 8	& Vertical						
	Frequency 9kHz- 150kHz	Detector Quasi-peak	RBW 200Hz	VBW 1kHz	Remark Quasi-peak Value			
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value			
	30MHz-1GHz Above 1GHz	Quasi-peak Peak Peak	120kHz 1MHz 1MHz	300kHz 3MHz 10Hz	Quasi-peak Value Peak Value Average Value			
Limit(Field strength of the fundamental signal):	Freque 2400MHz-24		Limit (dBu\ 94. 114	00	Remark Average Value Peak Value			
Limit(Spurious Emissions):	Frequency 0.009-0.490 0.490-1.705 1.705-30 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz		Limit (dBuV/m @3m) 2400/F(KHz) 24000/F(KHz) 30 40.0 43.5 46.0 54.0		Remark Quasi-peak Value Average Value			
Limit (band edge) :	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,							
Test Procedure:	<ol> <li>whichever is the lesser attenuation.</li> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make</li> </ol>							



the measurement.

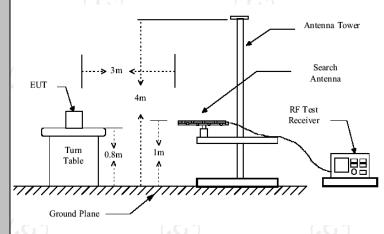
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

#### For radiated emissions below 30MHz



#### 30MHz to 1GHz

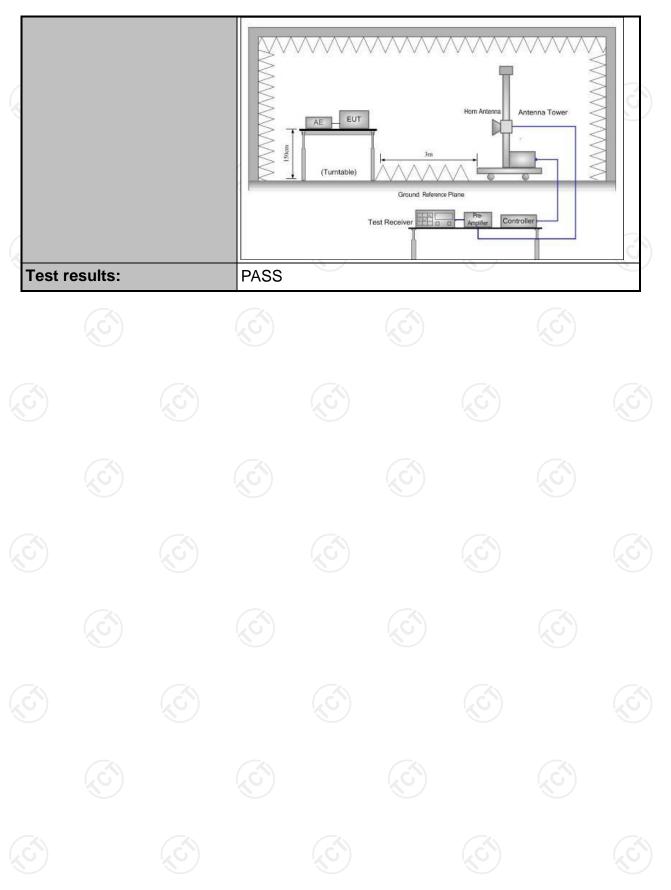
#### **Test setup:**



#### Above 1GHz

(The diagram below shows the test setup that is utilized to make the measurements for emission from 1GHz to the tenth harmonic of the highest fundamental frequency or to 40GHz emissions, whichever is lower.)









#### 6.3.2. Test Instruments

	Radiated Emission Test Site (966)							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018				
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018				
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018				
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018				
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018				
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018				
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018				
Horn Antenna	Schwarzbeck	BBH 9170	582	Sep. 27, 2018				
Antenna Mast	Keleto	CC-A-4M	N/A	N/A				
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018				
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018				
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018				
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018				
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A				

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



#### 6.3.3. Test Data

#### **Field Strength of Fundamental**

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
2410	90.55	Н	114	-23.45
2410	91.72	V	114	-22.28
2440	86.41	Н	114	-27.59
2440	91.76	V	114	-22.24
2468	86.35	(C) H	114	-27.65
2468	88.53	V	114	-25.47

Frequency (MHz)	Emission AV (dBuV/m)	Horizontal /Vertical	Limits AV (dBuV/m)	Margin (dB)
2410	76.03	Н	94	-17.97
2410	79.35	(c)V	94	-14.65
2440	72.42	Н	94	-21.58
2440	76.97	V	94	-17.03
2468	74.42	Н	94	-19.58
2468	73.41	V	94	-20.59

#### **Spurious Emissions**

#### Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
(¿C` <del>`)-</del>	((C))	<del>-(</del> ,C`)
<u> </u>		
	(76)	- C

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

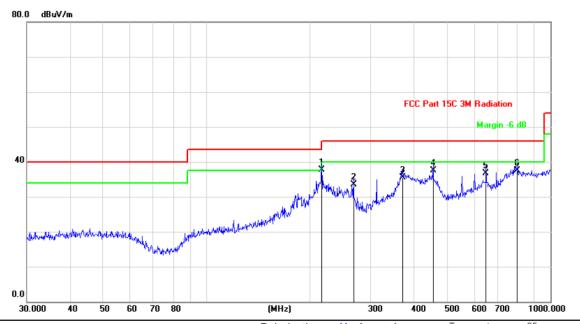
2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

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#### Frequency Range (30MHz-1GHz)

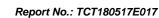
#### Horizontal:



Site Polarization: Horizontal Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 7.4V Humidity: 55 %

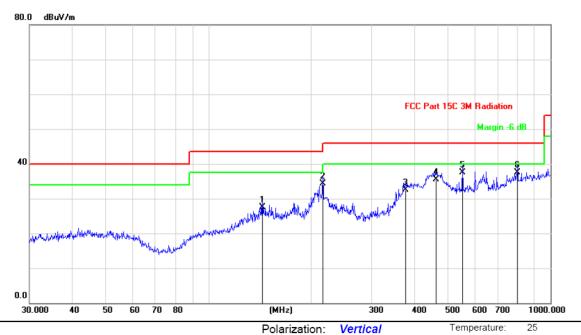
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	*	216.0240	49.80	-12.12	37.68	46.00	-8.32	QP			
2		267.5455	43.60	-10.07	33.53	46.00	-12.47	QP			
3		372.0045	42.20	-6.60	35.60	46.00	-10.40	QP			
4		455.9058	41.70	-4.29	37.41	46.00	-8.59	QP			
5		649.6597	37.20	-0.40	36.80	46.00	-9.20	QP			
6		801.7863	35.50	1.94	37.44	46.00	-8.56	QP			







#### Vertical:



Site Polarization: Vertical Temperature: 25
Limit: FCC Part 15C 3M Radiation Power: DC 7.4V Humidity: 55 %

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		143.8294	43.40	-15.92	27.48	43.50	-16.02	QP			
2		216.0240	46.50	-12.12	34.38	46.00	-11.62	QP			
3		377.2590	39.00	-6.45	32.55	46.00	-13.45	QP			
4		462.3455	39.70	-4.12	35.58	46.00	-10.42	QP			
5		552.8832	39.30	-1.87	37.43	46.00	-8.57	QP			
6	*	801.7863	35.60	1.94	37.54	46.00	-8.46	QP			

**Note:** Measurements were conducted in all channels (high, middle, low), and the worst case (low channel) was submitted only.





#### **Above 1GHz**

	Low channel: 2410MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Peak	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
2387.50	Н	52.36		-4.20	48.16		74	54	-5.84				
4820.00	Н	51.25		-3.94	47.31		74	54	-6.69				
7230.00	Н	48.71		0.52	49.23		74	54	-4.77				
					/								
2387.50	V	50.01	-420	-4.20	45.81	(C) <del>1</del> ]-	74	54	-8.19				
4820.00	V	45.24		3.94	49.18	<u></u>	74	54	-4.82				
7230.00	V	46.85		0.52	47.37		74	54	-6.63				

			N	liddle chann	el: 2440M	lHz			
Frequency	Ant Dol	Peak	AV	Correction	Emissio	on Level	Peak limit	A\/ limit	Margin
(MHz)	H/V	reading	reading	Factor	Peak	// //		(dBµV/m)	(dB)
(IVIIIZ)	□/ V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(ασμν/ιιι)	(ασμ ν/ιιι)	(ab)
4880.00	Н	50.35	- <del>-</del>	-3.98	46.37	(C)\ <del>-</del>	74	54	-7.63
7320.00	H	49.17		0.57	49.74		74	54	-4.26
Z		X			X		-		
( )		$(C_{i}, C_{i})$		(20	( (		$(C_{i}, C_{i})$		
4880.00	V	52.39		-3.98	48.41		74	54	-5.59
7320.00	V	49.81		0.57	50.38		74	54	-3.62
	4			\	/			( <u>(</u> )	
	(OL.)		-170	)		(V- <del>/</del>			

	High channel: 2468MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
2483.51	Н	51.47		-2.38	49.09		74	54	-4.91				
4936.00	Н	52.13		-3.98	48.15		74	54	-5.85				
7404.00	Н	49.58		0.57	50.15		74	54	-3.85				
	24		f.c										
,					,								
2483.51	V	51.36		-2.38	48.98		74	54	-5.02				
4936.00	V	52.04		-3.98	48.06		74	54	-5.94				
7404.00	V	50.23		0.57	50.80		74	54	-3.20				
G )}		(_ <del>C</del> _`)		(2	(`ر		(26-)		{ <sub>2</sub> C				

#### Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB $\mu$ V/m)-Average limit (dB $\mu$ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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#### **Band Edge Requirement**

Low chann	Low channel: 2410 MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
2400	Н	48.27	)	-4.20	44.07		74		-29.93				
2400	Н		43.41	-4.20	)	39.21		54	-14.79				
2400	V	49.33	(	-4.20	45.13		74	(.3	-28.87				
2400	V		41.98	-4.20		37.78		54	-16.22				

High chanr	High channel: 2468MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
2483.5	H	51.09	/	-4.20	46.89	(	74		-27.11			
2483.5	(H)		42.78	-4.20		38.58		54	-15.42			
			\	<b></b>								
2483.5	V	50.32		-4.20	46.12		74		-27.88			
2483.5	V	+ 6	41.14	-4.20		36.94		54	-17.06			
( )			/	'	( )-		4					

#### Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2.  $Margin (dB) = Emission Level (Peak/Average)(dB\mu V/m)-(Peak/Average) limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.





## 6.4. 20dB Occupied Bandwidth

#### 6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)/ Part 2 J Section 2.1049
Test Method:	ANSI C63.10: 2013
Limit:	N/A
	<ol> <li>According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>Use the following spectrum analyzer settings for 20dB Bandwidth measurement.         Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth;         VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold.     </li> <li>Measure and record the results in the test report.</li> </ol>
Test setup:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test results:	PASS
7 7 7	

#### 6.4.2. Test Instruments

RF Test Room										
Equipment Manufacturer Model Serial Number Calibration Due										
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018						

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





#### 6.4.3. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion
Lowest	1905		PASS
Middle	1951		PASS
Highest	1941		PASS

#### Test plots as follows:



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#### Lowest channel



#### Middle channel

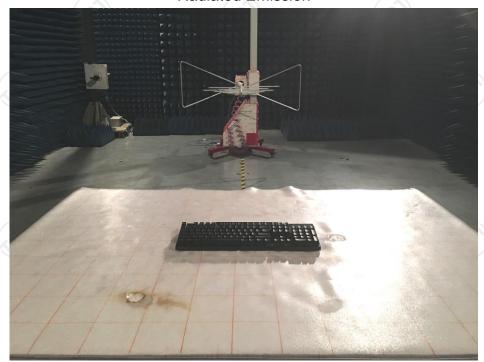


#### Highest channel





**Appendix A: Photographs of Test Setup**Product: Wireless/Wired Mechanical Gaming Keyboard Model: Mercury Radiated Emission







# Appendix B: Photographs of EUT Product: Wireless/Wired Mechanical Gaming Keyboard Model: Mercury External Photos











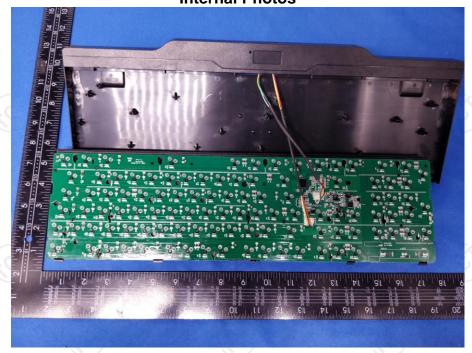


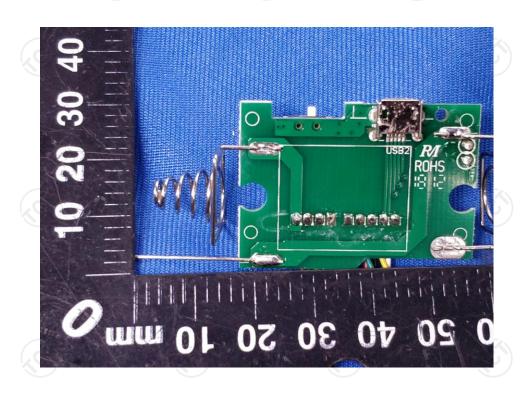






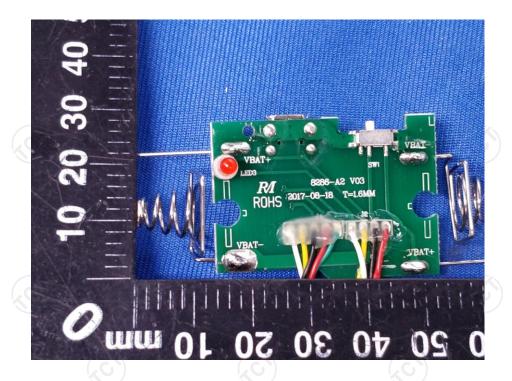
# Product: Wireless/Wired Mechanical Gaming Keyboard Model: Mercury Internal Photos

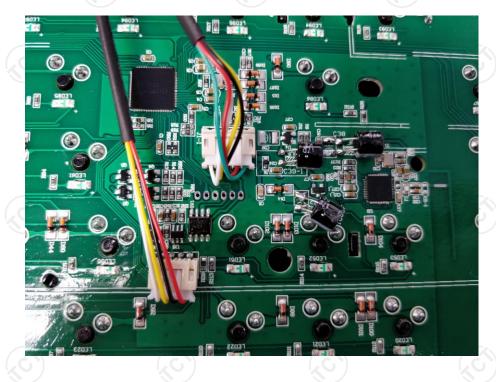






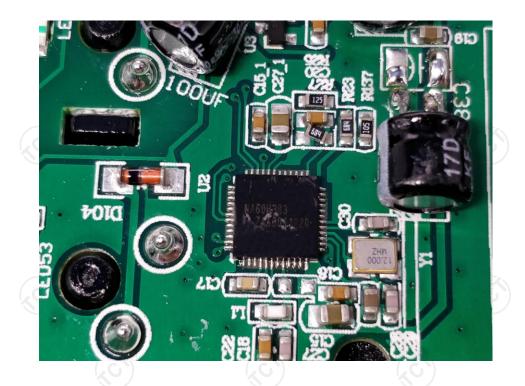


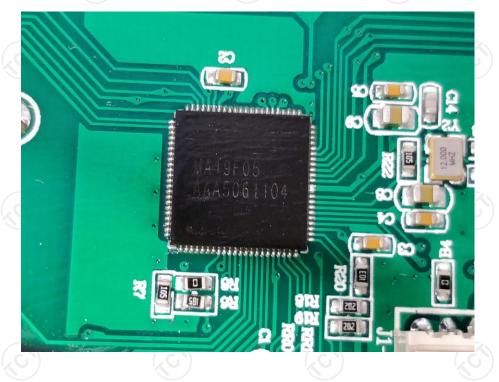
















# \*\*\*\*\*END OF REPORT\*\*\*\*\*





