

Report No.: TW2409071-02E

Applicant: Eastern Times Technology Co., Ltd

Product: WIRELESS ONE-HANDED HOT-SWAPPABLE MECHANICAL KEYBOARD

Model No.: K585RGB-PRO, ET-8994

Trademark: REDRAGON

Test Standards: FCC Part 15.249

> It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10 &FCC Part 15 Subpart C, 15.249 regulations for Paragraph the evaluation electromagnetic compatibility

of

Approved By

Test result:

Terry long

Terry Tang

Manager

Dated:

September 19, 2024

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:

FCC-Registration No.: 744189

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

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

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

A2LA (Certification Number:5013.01)

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

CAB identifier: CN0033

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1.0 General Details

1.1 Test Lab Details

Name:	SHENZHEN TIMEWAY TESTING LABORATORIES.		
Address:	Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le		
	Village, Nanshan District, Shenzhen, China		
Telephone:	(755) 83448688		
Fax:	(755) 83442996		
Site on File with the Federal Communications Commission – United Sates			
Registration 1	Number: 744189		
For 3m Anecl	hoic Chamber		

1.2 Applicant Details

Applicant:Eastern Times Technology Co., LtdAddress:Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,
Guangdong, China.

1.3 Description of EUT

Product:	WIRELESS ONE-HANDED HOT-SWAPPABLE MECHANICAL
	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:	K585RGB-PRO
Additional Model Name	ET-8994
Hardware Version:	8882-A RX V1
Software Version:	6a623b1c
Serial No.:	RDK585RGB-PRO23102800431
Rating:	Input: DC5V, 638mA or DC3.7V, 138mA
Battery:	DC3.7V, 3000mAh Li-ion battery
Modulation Type:	GFSK
Operation Frequency:	2402-2480MHz
Channel Separate:	1MHz
Channel Number:	79
Antenna Designation	PCB antenna with gain 2.34dBi Max (Get from the antenna specification)

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- 1.4 Submitted Sample: 2 Samples
- 1.5 Test Duration 2024-09-10 to 2024-09-19
- 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: 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	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic			N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

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:

3.0 Technical Details

3.1 Summary of test results

The EOT has been tested according to th	ie ionowing speer	incutions:	
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

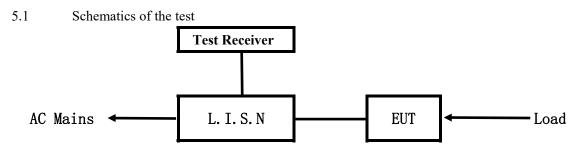
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5. Power Line Conducted Emission Test



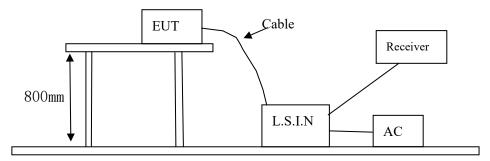
EUT: Equipment Under Test

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 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. 79 channels are provided to the EUT

Device	Manufacturer	Model	FCC ID
WIRELESS ONE-HANDED	Eastern Times		
HOT-SWAPPABLE		K585RGB-PRO, ET-8994	TUVET-8994A
MECHANICAL KEYBOARD	Technology Co., Ltd		

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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

Frequency	Limits (d	lBμV)
(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
$5.00~\sim~30.00$	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: 25℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa EUT set Condition: Charging and Communication by BT **Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class B_QP 60 FCC Part 5 CE-Class B_AVe 50 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	0.1548	32.91	9.78	42.69	65.74	-23.05	QP	Р
2	0.1548	19.21	9.78	28.99	55.74	-26.75	AVG	Р
3	0.3138	23.89	9.76	33.65	<mark>59.87</mark>	-26.22	QP	Р
4	0.3138	4.72	9.76	14.48	49.87	-35.39	AVG	Р
5	3.9360	18.65	9.88	28.53	56.00	-27.47	QP	Р
6	3.9360	7.67	9.88	17.55	46.00	-28.45	AVG	Р
7	16.6890	21.32	10.48	31.80	60.00	-28.20	QP	Р
8	16.6890	15.48	10.48	25.96	50.00	-24.04	AVG	Р

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz) **EUT Operating Environment** Temperature: 25℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa EUT set Condition: Charging and Communication by BT **Results: Pass** Please refer to following diagram for individual dBu¥ 80.0 70 FCC Part15 CE-Class B_QP 60 FCC Part 5 CE-Class B_AVe 50 40 peal 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	0.1617	26.41	9.78	36.19	65.38	-29.19	QP	Ρ
2	0.1617	3.96	9.78	13.74	55.38	-41.64	AVG	Ρ
3	1.7451	16.47	9.80	26.27	56.00	-29.73	QP	Ρ
4	1.7451	8.30	9.80	18.10	46.00	-27.90	AVG	Ρ
5	4.3454	19.74	9.90	29.64	56.00	-26.36	QP	Ρ
6	4.3454	9.35	9.90	19.25	46.00	-26.75	AVG	Р
7	16.7748	17.00	10.49	27.49	60.00	-32.51	QP	Р
8	16.7748	11.60	10.49	22.09	50.00	-27.91	AVG	Р

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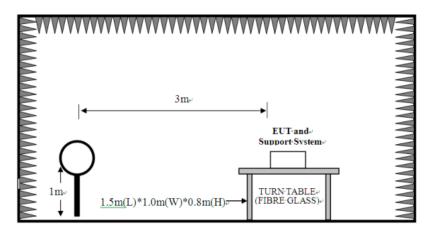


6 Radiated Emission Test

- 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

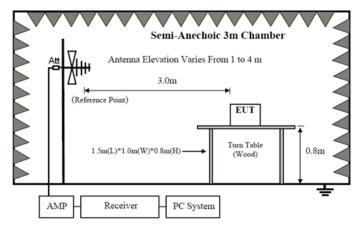


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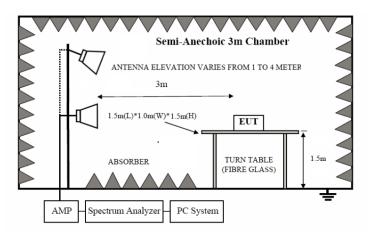
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For radiated emissions from 30MHz to1GHz



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	ength of Fundame	ntal (3m)	Field St	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.

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

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

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

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

4. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz.As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.

5. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.

6. Battery full charged during tests.

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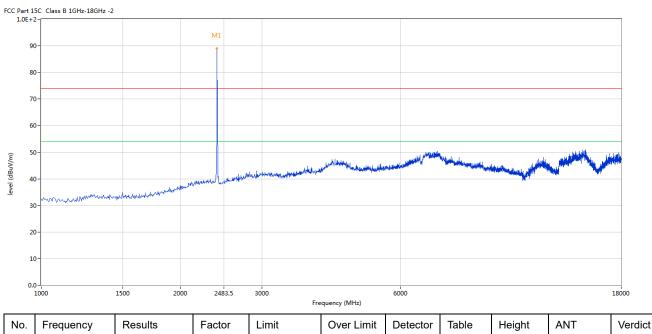


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



(dB)

-24.95

(0)

199.00

Peak

(cm)

100

Horizontal

Pass

(dBuV/m)

114.0

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(dBuV/m)

89.05

(dB)

-3.57

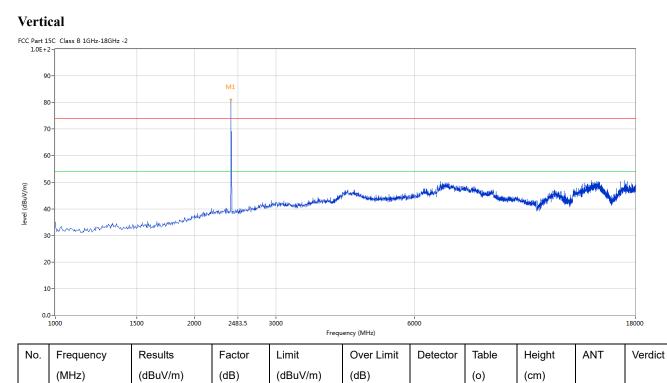
(MHz)

2402

1

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206.00

100

Vertical

Pass

Peak

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

80.96

-3.57

114.0

-33.04

2402

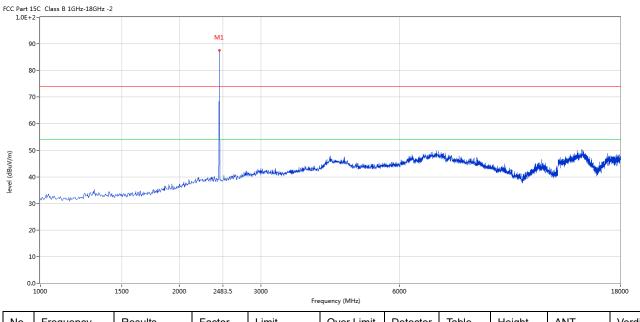
1

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

Horizontal

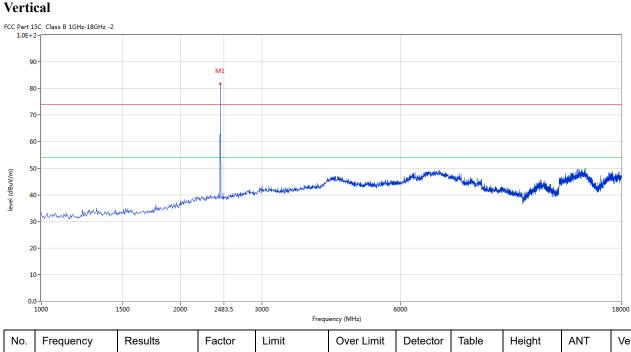


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	87.55	-3.57	114.0	-26.45	Peak	218.00	100	Horizontal	Pass

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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	2441	81.71	-3.57	114.0	-32.29	Peak	216.00	100	Vertical	Pass

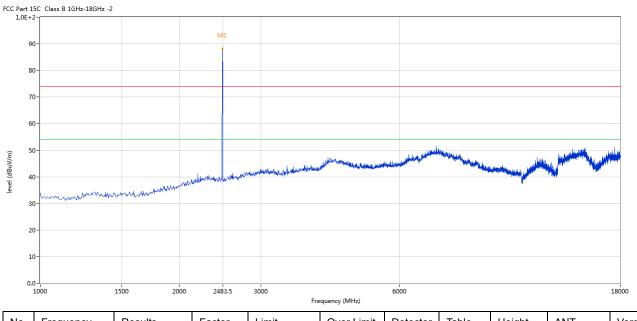
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal

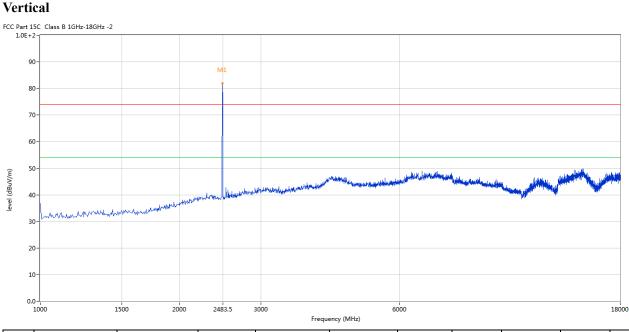


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	88.19	-3.57	114.0	-25.81	Peak	232.00	100	Horizontal	Pass

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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	2480	81.87	-3.57	114.0	-32.13	Peak	16.00	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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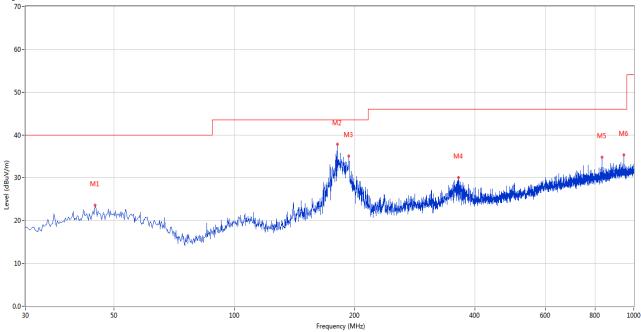
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	44.789	23.64	-11.42	40.0	16.36	Peak	265.00	100	Horizontal	Pass
2	181.040	37.78	-15.15	43.5	5.72	Peak	279.00	100	Horizontal	Pass
3	193.647	35.00	-13.86	43.5	8.50	Peak	279.00	100	Horizontal	Pass
4	364.566	30.09	-9.51	46.0	15.91	Peak	360.00	100	Horizontal	Pass
5	831.990	34.78	-2.91	46.0	11.22	Peak	252.00	100	Horizontal	Pass
6	944.966	35.39	-1.64	46.0	10.61	Peak	285.00	100	Horizontal	Pass

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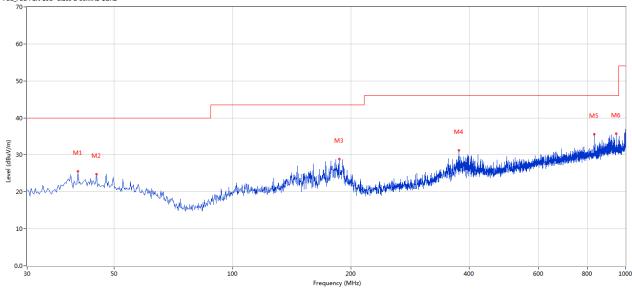
Radiated Emission In Vertical (30MHz----1000MHz)

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	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	40.425	25.58	-12.27	40.0	14.42	Peak	269.00	100	Vertical	Pass
2	45.031	24.75	-11.41	40.0	15.25	Peak	118.00	100	Vertical	Pass
3	186.616	28.82	-14.69	43.5	14.68	Peak	301.00	100	Vertical	Pass
4	376.931	31.29	-9.38	46.0	14.71	Peak	314.00	100	Vertical	Pass
5	833.444	35.63	-2.82	46.0	10.37	Peak	319.00	100	Vertical	Pass
6	948.118	35.76	-1.52	46.0	10.24	Peak	213.00	100	Vertical	Pass

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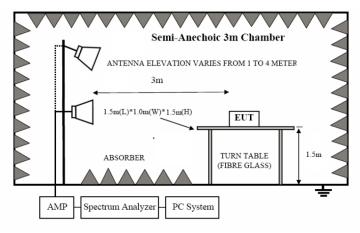


7. Band Edge

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

		WIREI	LESS ONE	-HANDED						
]	Product:	HOT-SWA	PPABLE N	MECHANICAI	L Po	larity		Hor	rizontal	
			KEYBOA	RD						
	Mode	Kee	eping Trans	smitting	Test	Voltage		D	C3.7V	
Te	mperature		24 deg.	С,	Hu	midity		56	% RH	
Τe	est Result:		Pass							
C Part 1 1.0E+	15C Class B 1GHz-18GHz 2-	-2								_
								M1		
9	0-									
8							/			
7	-0-						1	N.		
6	i0 -									
							M2			
							J .		N.	
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4 3 2 1	0			tering series of the series of	ency (MHz)	a daga mengang dalaka			1	2410
4 3 2 1	0	Results	Factor	Freque	ency (MHz) Over Limit	Detector	Table	Height		2410
4 3 2 1 0.	0- 	Results (dBuV/m)	Factor (dB)	Frequ Limit (dBuV/m)	ency (MHz) Over Limit (dB)		(o)	(cm)	ANT	2410 Verdic
4 3 2 1 0. No.	0	Results (dBuV/m) 88.12	Factor (dB) -3.57	Frequ Limit (dBuV/m) 74.0	ency (MHz) Over Limit (dB) 14.12	Peak	(o) 214.00	(cm) 100	ANT Horizontal	2410 Verdic
, 4 3 2 1 0. 0. No.	0- 0- 0- 2370 Frequency (MHz) 2402.222 2400.000	Results (dBuV/m) 88.12 66.04	Factor (dB) -3.57 -3.57	Frequ Limit (dBuV/m) 74.0 74.0	ency (MHz) Over Limit (dB) 14.12 -7.96	Peak Peak	(o) 214.00 119.11	(cm) 100 100	ANT Horizontal Horizontal	2410 Verdic N/A Pass
4 3 2 1 0. No.	0	Results (dBuV/m) 88.12	Factor (dB) -3.57	Frequ Limit (dBuV/m) 74.0 74.0 54.0	ency (MHz) Over Limit (dB) 14.12	Peak	(o) 214.00	(cm) 100	ANT Horizontal	2410 Verdic

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	Product:	НО	T-SWAP	ESS ONE-H PABLE ME KEYBOARI	CHANICAL	E	Detector		Vertical	l
	Mode			ving Transmi		Tes	st Voltage		DC3.7\	7
-	Temperature		Reep	24 deg. C,	itting		umidity		56% RF	
	Test Result:			Pass						1
	5C Class B 1GHz-18GHz	-2								
1.0E+2										
90)-									
								M1		
80)-							1 M		
7()-							1	4.	
								1	N.	
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60									<u> </u>	
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50 44 30 20 10)				Frequency (MH		helensedown differ	A2 •		2410
50 44 30 20 10		Results	Factor	Limit	Frequency (MH	z) Detector	Table (o)	Height	ANT	2410
50 30 20 10 0.0		Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MH Over Limit (dB)	Detector		(cm)	ANT	2410 Verdic
50 4(3) 2(0,0 No.		Results (dBuV/m) 80.60	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MH Over Limit (dB) 6.60	Detector Peak	210.00	(cm) 100	ANT Vertical	2410 Verdic
50 4(20 10 0.0.7 No. 1 2	Frequency (MHz) 2400.000	Results (dBuV/m) 80.60 59.21	Factor (dB)	Limit (dBuV/m) 74.0 74.0	Frequency (MH Over Limit (dB) 6.60 -14.79	Detector Peak Peak	210.00 188.33	(cm)	ANT	2410 Verdic N/A Pass
50 40 30 20 0.0		Results (dBuV/m) 80.60	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MH Over Limit (dB) 6.60	Detector Peak	210.00	(cm) 100	ANT Vertical	2410 Verdic

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	Product:	WIRELESS ONE-HANDED HOT-SWAPPABLE MECHANICAL KEYBOARD				Polarity	Horizontal			
	Mode	K	eeping Tra	insmitting	Т	est Voltag	e	Ι	DC3.7V	
Temperature		24 deg. C,				Humidity				
Te	est Result:		Pas	s						
CC Part : 1.0E+	15C Class B 1GHz-18GHz	-2								
8 7	90		MI	A A						
level (dBuV/m	50 - 40 - Waxilda da Anador Al 30 - 20 - 10 -	Alexandra and a second and a	ý			an a	nsikhidaren atalakkata	diananing)-mandag	Li cadastrazati e nasarrit natirati	
level (dBuV/m	40	Alternation and a second se	ý	2483.	5 Frequency (MHz)	an antara daga daga da da ana a da	nie Hilmenne and Alexan	damana kana kana kana kana kana kana kana	lit e de instal et asserts estado	2500
level (dBuV/m	40 - <mark>Handelan - Jud Anardon As</mark> 30	Results (dBuV/m)	Factor (dB)	2483. Limit (dBuV/m)		Detector	Table (o)	Height (cm)	ANT	
level (dBuV/m 0	40 - Have and Analog A	Results		Limit	Frequency (MHz)		Table	Height		2500

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Product:		WIRELESS ONE-HANDED HOT-SWAPPABLE MECHANICAL KEYBOARD				Detector		Vertical			
	Mode	Ke	eping Trai	nsmitting	Test	t Voltage		DC	3.7V		
Temperature		24 deg. C,				Humidity		56% RH			
Test Result:		Pass									
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2									
7 6 (dBuV/m) 4 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	50	hadistan sing dama and make a so so and a dama a		2483.5 Freq	el-ray (MHz)	ena forde et a mana de state faite particular de ser a mana de ser a mana de ser a mana de ser a mana de ser a		ber da setangen in soder skieler	t, falski far Ayn, i known fasherin	*******	
0	2470					1					
0	Frequency	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdic	
0	1	Results (dBuV/m) 81.17	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Over Limit (dB) 7.17	Detector Peak	Table (o) 190.00	-	ANT Vertical	Verdic N/A	

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 with gain 2.34dBi maximum. It fulfills the requirement of this section. Test Result: Pass

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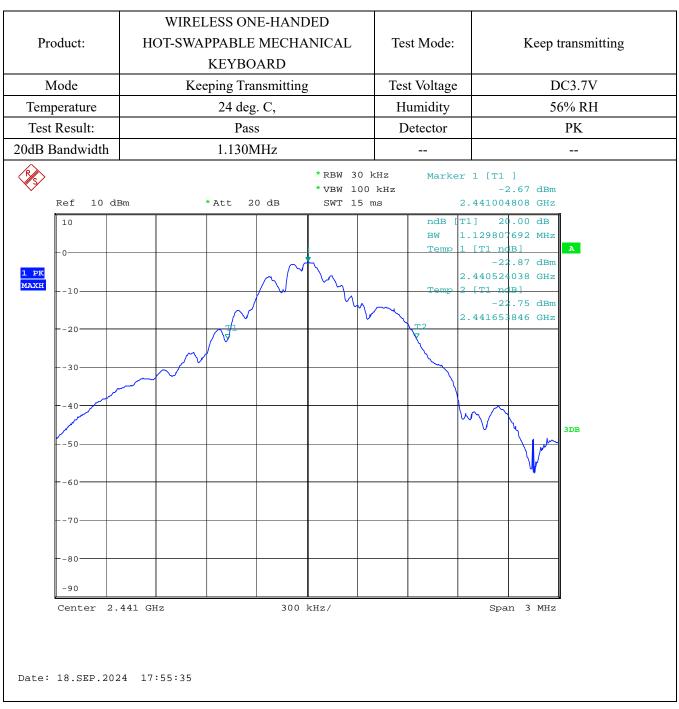


	WIRELESS	ONE-HAI	NDED			
Product:	HOT-SWAPPAB	LE MECH	HANICAL	Test Mode:	Keep tr	ansmitting
	KEY	BOARD				
Mode	Keeping	Transmitti	ing	Test Voltage	DC3.7V	
Temperature	24 0	deg. C,		Humidity	56% RH PK	
Test Result:		Pass		Detector		
20dB Bandwidth	1.28	84MHz				
			*RBW 30 kHz *VBW 100 kH		[T1] -2.51 dBm	
Ref 10 dBm	* Att 2	0 dB	SWT 15 ms		-2.51 dBm 102024038 GHz	
10				ndB [T1]	20.00 dB 283653846 MHz	
0			1		T1 ndB]	A
PK		\sim		2.4	-22.45 dBm 101408654 GHz	
IAXH10		pn _			T1_ndB]	
			"h	2.4	-22.44 dBm 102692308 GHz	
-20						
	~~~					
-40						
and the second se				V	) V V 3	DB
-50						
-60					4	
-70						
- 80						
-90						
Center 2.40	02 GHz	kHz/	Span 3 MHz			

The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. 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.

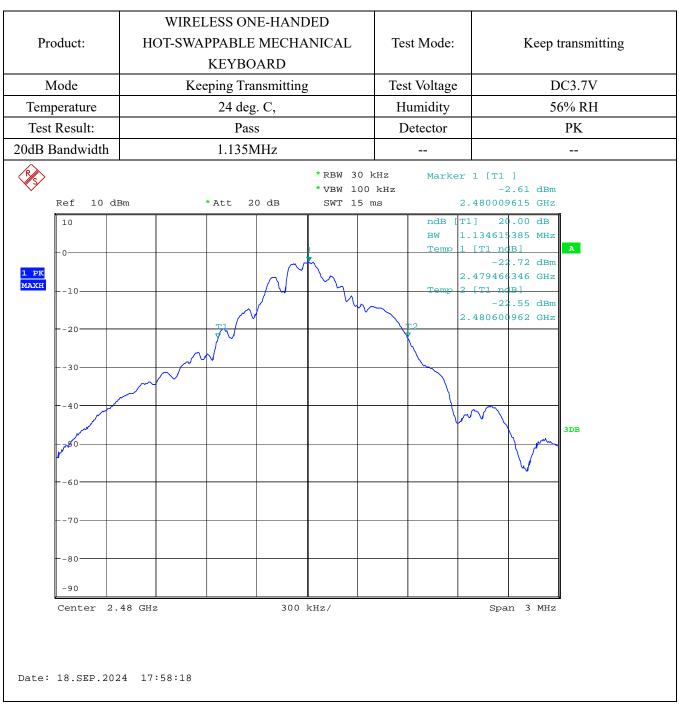




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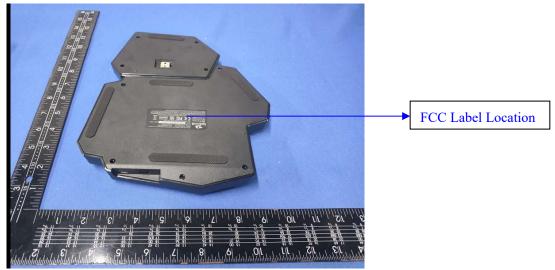
### 10.0 FCC ID Label

#### FCC ID: TUVET-8994A

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

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:



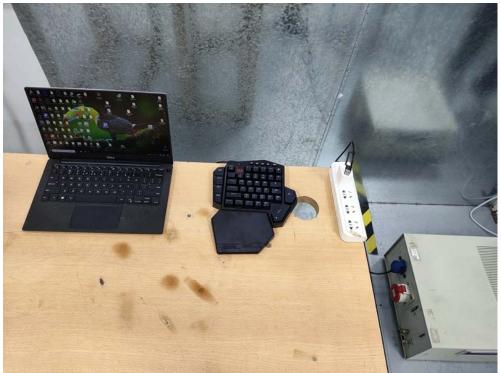
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#### 11.0 Photo of testing

11.1 Conducted test View--



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adopt any other remedies which may be appropriate.



Radiated emission test view



#### **Photographs – EUT**

Please refer test report TW2409071-01E

#### --End of the report--

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