

Applicant: Eastern Times Technology Co.,Ltd

Product: REDRAGON 75% LOW-PROFILE WIRELESS

MECHANICAL KEYBOARD

Model No.: K652-RGB-PRO, K652GG-RGB-PRO, ET-8909

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

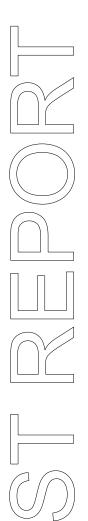
Dated: May 10, 2023

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 17025:2017 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

CAB identifier: CN0033

Date: 2023-05-10



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....

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Date: 2023-05-10



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: REDRAGON 75% LOW-PROFILE WIRELESS 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: K652-RGB-PRO

Additional Model Name K652GG-RGB-PRO, ET-8909

Hardware Version: 8909-A V1

Software Version: 7FD7

Serial No.: RDK652GG-RGB-PRO23031000443
Rating: DC5V, 620mA or DC3.7V, 120mA
Battery: DC3.7V, 1600mAh Li-ion battery

Modulation Type: GFSK

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation PCB antenna with gain 0.11dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration 2023-04-10 to 2023-05-10

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: 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	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
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	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
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	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2022-07-15	2023-07-14
RF Cable	Zhengdi	7m		2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

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 has	hoon i	tostad	aaaardin	a to the	o following	specifications:
I ne EUI nas	been 1	testea	accordin	g to the	e tollowing	specifications:

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

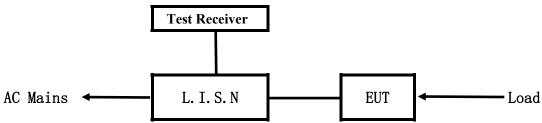
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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5. Power Line Conducted Emission Test

5.1 Schematics of the test

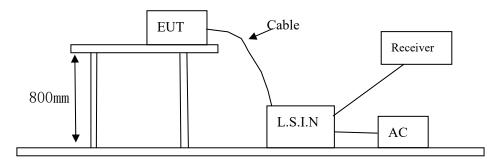


EUT: Equipment Under Test

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
REDRAGON 75%	Eastern Times	K652-RGB-PRO,	
LOW-PROFILE WIRELESS		K652GG-RGB-PRO, ET-8909	TUVET-8909A
MECHANICAL KEYBOARD	reciniology Co.,Liu	K03200-K0B-FKO, E1-8909	

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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 (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)

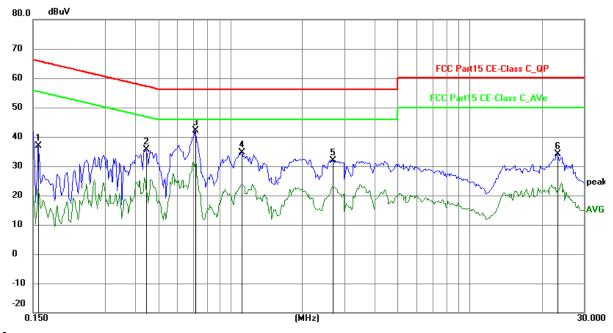
EUT Operating Environment

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

EUT set Condition: Charging and 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	0.1578	27.21	9.78	36.99	65.58	-28.59	peak	Р
2	0.4464	25.94	9.77	35.71	56.94	-21.23	peak	Р
3	0.7155	32.26	9.78	42.04	56.00	-13.96	peak	Р
4	1.1172	24.90	9.79	34.69	56.00	-21.31	peak	Р
5	2.6694	22.05	9.83	31.88	56.00	-24.12	peak	Р
6	23.3501	23.13	10.89	34.02	60.00	-25.98	peak	Р

Note: the PK measurement level less than the AV limit, so no necessary to take down the AV measurement level

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

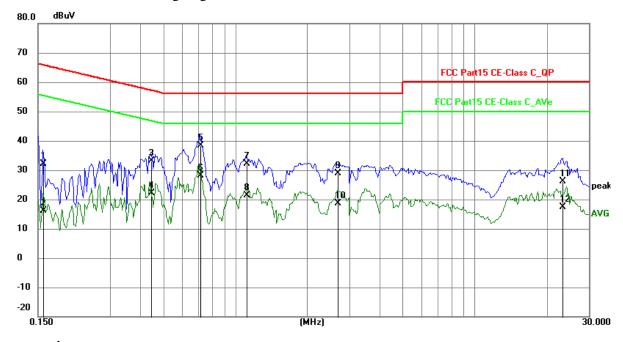
EUT Operating Environment

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

EUT set Condition: Charging and 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	0.1578	22.23	9.78	32.01	65.58	-33.57	QP	Р
2	0.1578	6.27	9.78	16.05	55.58	-39.53	AVG	Р
3	0.4464	23.36	9.77	33.13	56.94	-23.81	QP	Р
4	0.4464	12.43	9.77	22.20	46.94	-24.74	AVG	Р
5	0.7155	28.48	9.78	38.26	56.00	-17.74	QP	Р
6	0.7155	18.45	9.78	28.23	46.00	-17.77	AVG	Р
7	1.1172	22.35	9.79	32.14	56.00	-23.86	QP	Р
8	1.1172	11.64	9.79	21.43	46.00	-24.57	AVG	Р
9	2.6694	19.01	9.83	28.84	56.00	-27.16	QP	Р
10	2.6694	8.81	9.83	18.64	46.00	-27.36	AVG	Р
11	23.3501	15.27	10.89	26.16	60.00	-33.84	QP	Р
12	23.3501	6.43	10.89	17.32	50.00	-32.68	AVG	Р

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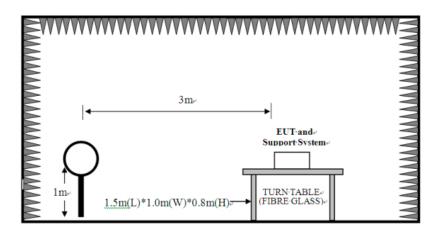


6 Radiated Emission Test

- 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



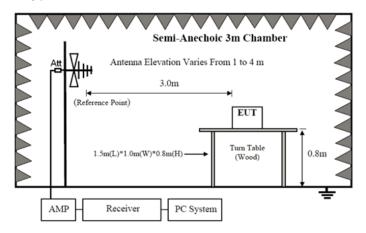
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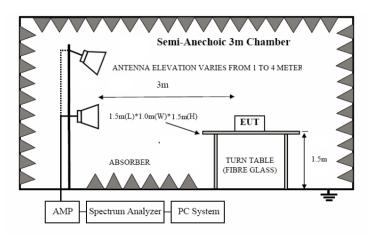
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For radiated emissions from 30MHz to1GHz



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 Strength of Harmonics (3m)			
(MHz)	mV/m	dBuV/m		uV/m	dBuV/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 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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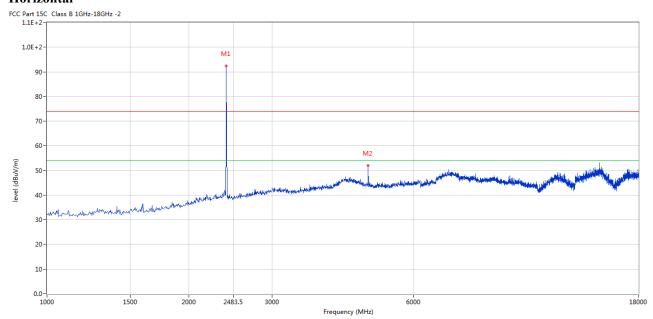
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6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



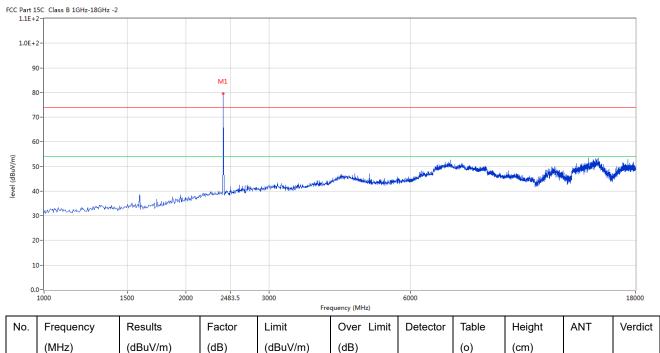
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	92.57	-3.57	114.0	-21.43	Peak	260.00	100	Horizontal	Pass
2	4802.799	51.90	3.12	74.0	-22.10	Peak	255.00	100	Horizontal	Pass

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Vertical



	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
Ī	1	2402	79.69	-3.57	114.0	-34.31	Peak	204.00	100	Vertical	Pass

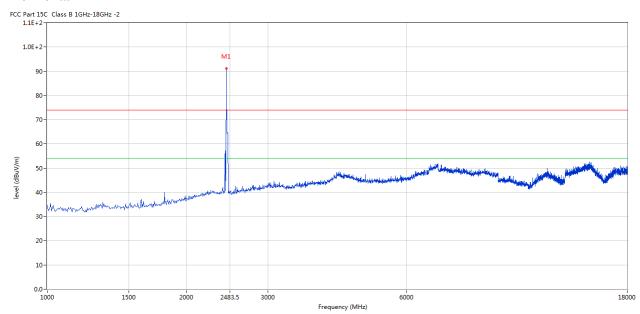
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



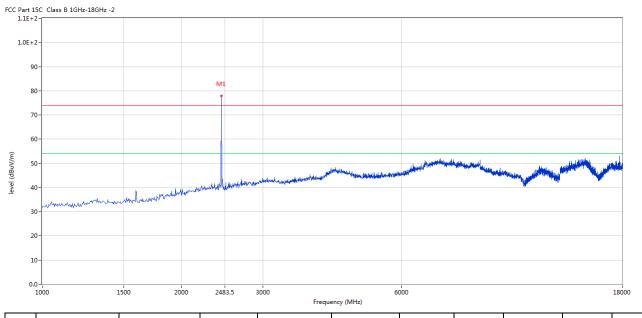
Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	2441	92.02	-3.57	114.0	-21.98	Peak	257.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2441	77.84	-3.57	114.0	-36.16	Peak	34.00	100	Vertical	Pass

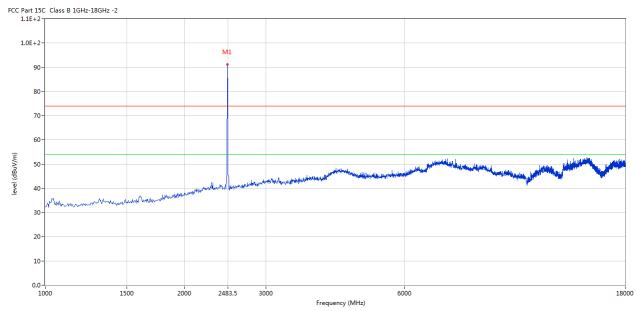
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



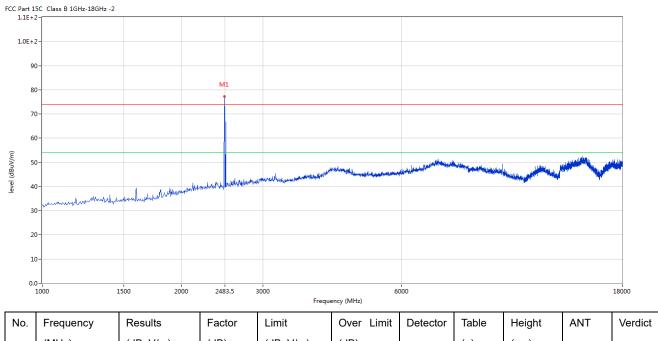
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	91.98	-3.57	114.0	-22.02	Peak	253.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	77.34	-3.57	114.0	-36.66	Peak	48.00	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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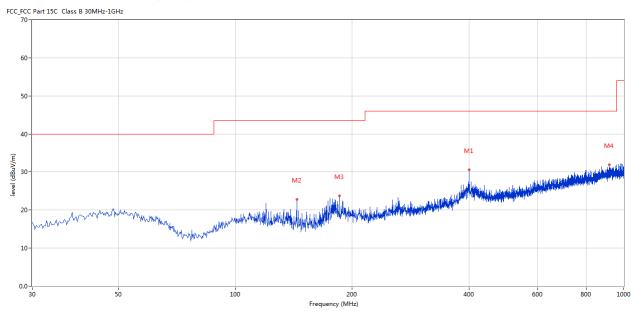


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	399.720	30.58	-8.57	46.0	-15.42	Peak	1.00	100	Horizontal	Pass
2	143.947	22.78	-17.10	43.5	-20.72	Peak	258.00	100	Horizontal	Pass
3	185.404	23.68	-14.87	43.5	-19.82	Peak	266.00	100	Horizontal	Pass
4	917.571	31.86	-1.95	46.0	-14.14	Peak	229.00	100	Horizontal	Pass

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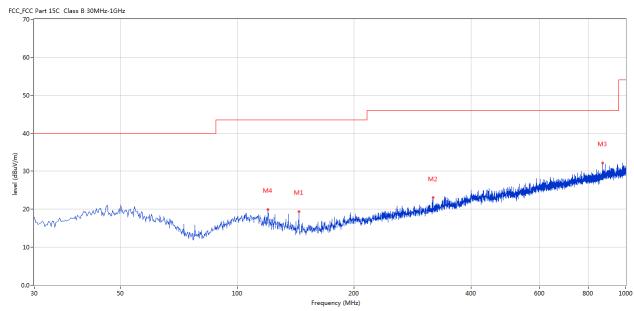


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	143.947	19.43	-17.10	43.5	-24.07	Peak	150.00	100	Vertical	Pass
2	318.745	23.01	-10.66	46.0	-22.99	Peak	193.00	100	Vertical	Pass
3	871.992	32.15	-2.02	46.0	-13.85	Peak	84.00	100	Vertical	Pass
4	119.945	19.91	-15.32	43.5	-23.59	Peak	158.00	100	Vertical	Pass

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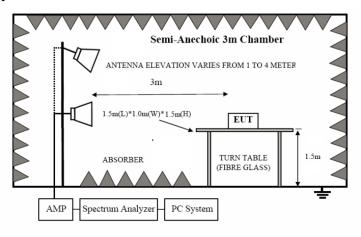


7. Band Edge

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.

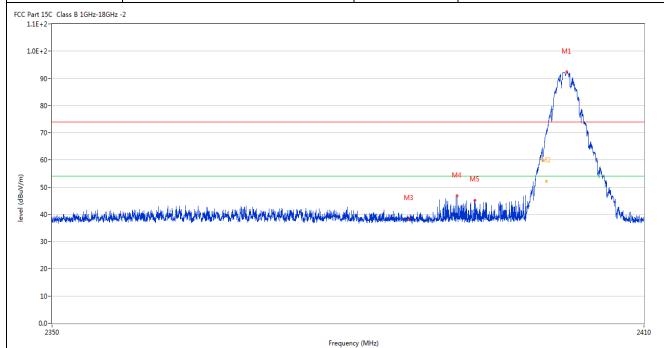
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7.6 Test Result

Product:	REDRAGON 75% LOW-PROFILE WIRELESS MECHANICAL 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	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2402.097	92.35	-3.57	74.0	18.35	Peak	264.00	100	Horizontal	N/A
2	2400.000	70.29	-3.57	74.0	-3.71	Peak	269.00	100	Horizontal	Pass
2**	2400.000	52.35	-3.57	54.0	-1.65	AV	269.00	100	Horizontal	Pass
3	2390.000	38.04	-3.53	74.0	-35.96	Peak	212.00	100	Horizontal	Pass
4	2390.895	46.74	-3.53	74.0	-27.26	Peak	164.00	100	Horizontal	Pass
5	2392.724	45.10	-3.54	74.0	-28.90	Peak	180.00	100	Horizontal	Pass

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		REDRAG	ON 75% L	OW-PROFIL	Æ					
]	Product:	WIREI	LESS MEC	CHANICAL	Det	tector		Vert	ical	
			KEYBOA	ARD						
	Mode	Ke	eping Trans	smitting	Test '	Voltage		DC3	3.7V	
Te	mperature		24 deg.	C,	Hur	nidity		56%	RH	
Te	est Result:		Pass						-	
2 Part 1	15C Class B 1GHz-18GHz 2-r	-2								
90	0-								M1	
81	0-							r	ALL ALL	
7(0-									
•										
60	0-					M4	M	5	-	
						1114		1912		
50	0-					• M	3	·	-	
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40 30 20 10		ر بالمستولي المراقية	io nei la empressió de la cel·la		Frequency (MHz)		3			
44 31 20 10		Results	Factor			Detector	Table	Height	ANT	
44 31 20 10	0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				Frequency (MHz)		Table (o)	Height (cm)	ANT	
44 34 20 10 0.0	o- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	Results	Factor	Limit	Frequency (MHz) Over Limit			_	ANT Vertical	
44 36 26 10 0.0	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	(0)	(cm)		Verd N/A
44 34 20 10 0.0	0-2350 Frequency (MHz) 2402.022	Results (dBuV/m) 79.65	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 5.65	Detector Peak	(o) 222.00	(cm)	Vertical	Verd N/A Pass
44 31 21 11 0.1 No.	Frequency (MHz) 2402.022 2400.000	Results (dBuV/m) 79.65 57.97	Factor (dB) -3.57	Limit (dBuV/m) 74.0 74.0	Over Limit (dB) 5.65 -16.03	Detector Peak Peak	(o) 222.00 233.00	(cm) 100 100	Vertical Vertical	Verdi N/A Pass
40 30 20 10	Frequency (MHz) 2402.022 2400.000 2400.000	Results (dBuV/m) 79.65 57.97 50.03	Factor (dB) -3.57 -3.57	Limit (dBuV/m) 74.0 74.0 54.0	Frequency (MHz) Over Limit (dB) 5.65 -16.03 -3.97	Detector Peak Peak AV	(o) 222.00 233.00 233.00	(cm) 100 100 100	Vertical Vertical Vertical	² Verdi

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ī	Product:			LOW-PROF		Polarity	Horizontal				
	10000.	KEYBOARD				Totality	Honzonta				
	Mode	Κε	eping Tra	nsmitting	Т	est Voltag	DC3.7V				
Te	Temperature 24 deg. C,				Humidity			56% RH			
Te	est Result:		Pas	s							
1.1E+12 1.0E+2 90 80 80 70 60 60 60 90 90 90 90 90 90 90 90 90 90 90 90 90				M2	Mary all the shirts	de distributed and a service of	iyahli, salkga aha sali a da kajiliki	kind din sakahilik sanapira, sejahilik	i hodd da waa egydd i dan da ffyydd o yg	2500	
					Frequency (MHz)						
		T	I	1.1.11		D	+		A N.I.T.		
No.	Frequency	Results	Factor	Limit (dRu)//m)	Over	Detector	Table	Height	ANT	Verdio	
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(0)	(cm)			
No.						Detector Peak Peak		_	ANT Horizontal Horizontal	Verdid N/A Pass	

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]	Product:			LOW-PROFII CHANICAL ARD		Detector Vertical						
	Mode	Ke	eping Tran	smitting	Test	Voltage		DC3.7V				
Te	mperature		24 deg.	C,	Hu	midity		56%	6 RH			
Te	est Result:		Pass									
	15C Class B 1GHz-18GHz	2			<u>.</u>							
1.0E+	2-											
9	0-											
8	0-											
7				1								
,	0-		/*	M								
6	0-			<i>M</i>								
<u>~</u> 5	0-			M ₂								
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dB.	A CHARLES AND A CAMPAGE	America La Loro de Militar		Marie III	للمن واللفائية الأناوي والم	المنافلا والمامين وا	la da la dispersión d	atilia sala sa	Land Art Manual Comme	and and		
level (dBu)				Mary Mary Mary Mary Mary Mary Mary Mary				A STATE OF THE STA		aliahaliya		
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3 2 1	0-	deirendig des de de la cici de red debbber			nd, i.e. in sirih bila debibika sirih	t toggished to the deflect		tidadi karakan kali ya ma	na kaji kiloni k	allah vahiga		
3: 2: 1:	0-	deisensky de de de de einsky en de beker (2483.5	quency (MHz)	dakere utoklasi ota dalam	ozilektikoskoskoskosko	Abbert Wilderick above a	ncio gr idadalellastik	2500		
3: 2: 1:	0-	Results	Factor	2483.5		Detector	Table	And the state of t	ANT			
3: 2: 1: 0.	o- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-		Factor (dB)	2483.5 Free	quency (MHz) Over Limit		Table	Height (cm)		2500 Verdict		
3: 2: 1: 0.	0-	Results (dBuV/m)	Factor (dB)	2483.5 Free	quency (MHz)			Height				

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 0.11dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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GFSK Modulation		ORAGO	N 75% LO	OW-PROF	ILE	m . 3.5.5		17	••		
Product:	WIREL	ESS MI	ECHANIC	CAL KEYE	Test Mode) :	Keep transmitting				
Mode	Keeping Transmitting 24 deg. C,					Test Voltag	ge	DC3.7V 56% RH			
Temperature						Humidity					
Test Result:			Pass			Detector	Detector PK				
20dB Bandwidth			1.010MH	Iz							
Ref Lvl 10 dBm		dB	1 [T1 r 20.	.00 dB	RBW VBW SWT	30 kH 100 kH 8.5 ms	z	F Att	20 dB dBr	n	
10						v ₁	[T1]	-	8.99 dBn]	
								2.40200	301 GHz	P	
0						ndB		20	0.00 dB		
				\sim	ζ,	BW ▼ _{T1}	[T1]	1.01002	2004 MHz 6.80 dBn		
-10					M				9800 GHz		
			/	W V	W	$ abla_{\mathrm{T2}}$	[T1]	-2'	7.05 dBm	n.	
-20 1MAX		/	T			T2		2.40250	0802 GHz	1R	
-30		\sim	- V				\				
-40	~~~~						سرالا				
-50								4	\\ \\ \\	•	
-60									V		
-70											
-80											
-90											

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GFSK Modula			-						
Product:	WIRELES	75% LOW-PROFIL S MECHANICAL XYBOARD	Test Mode:		Keep transmitting				
Mode	Keepin	g Transmitting		Test Voltage	;	DC3.7V			
Temperature	2	4 deg. C,		Humidity		56%	6 RH		
Test Result:		Pass	Detector		PK				
20dB Bandwidth	9	97.9kHz							
Ref Lvl	ndB	1 [T1 ndB] 20.00 dB 7.99599198 kHz	VI	30 k 3W 100 k WT 8.5 m	Hz	F Att	20 dB	ı	
0		M./	1	V1 ndE BW ∇π	[T1] 99	-7 2.44099 20 7.99599	.21 dBm 699 GHz .00 dB 198 kHz	Α	
-10 -20			V	1	2 [T1]	2.44052 -27 2.44152		1RM	
-30					\				
					Yw.				
-50							\ _M \\\		
-60									
-70									
-80									
-90									
Center 2 Date: 8.		300 49:31	kHz/			Spa	ın 3 MHz		

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GFSK Modulati	ion					_			
Product:	REDRAGON WIRELES KE	Т	Test Mode:		Keep transmitting				
Mode	Keepin	g Transmittii	ng	Te	Test Voltage		DC3.7V		
Temperature	2	4 deg. C,]	Humidity		56%	6 RH	
Test Result:		Pass		Detector		PK			
20dB Bandwidth	9								
Ref Lvl	ndB	1 [T1 ndi 20.00	0 dB	RBW VBW SWT	30 kH: 100 kH: 8.5 ms	z	? Att	20 dB	ı
0					V1 [ndB BW ∇T	T1] 90	-7 2.47999 20 7.81563	.07 dBm 699 GHz .00 dB 126 kHz	Α
-20 1MAX		T./~	M	Y	▼ _{T2}	[T1]	2.47955 -27 2.48045	210 GHz .17 dBm 992 GHz	1RM
-30						4	Man.		
-50 Mm							- Janu	<u>~ ^ </u>	
-60									
-80									
-90	10			,					
Center 2 Date: 8.	.48 GHz MAY.2023 16:	50:49	300 kHz	/			Spa	n 3 MHz	

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10.0 FCC ID Label

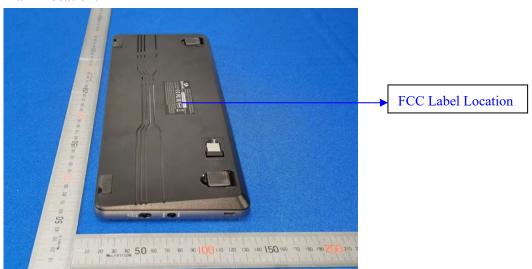
FCC ID: TUVET-8909A

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

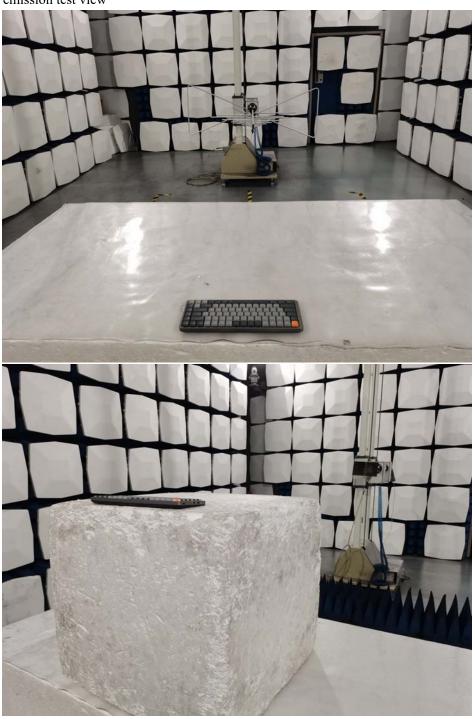
11.1 Conducted test View--



Date: 2023-05-10



Radiated emission test view



Photographs – EUT

Please refer test report TW2304092-01E

-- End of the report--

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

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