

Report No.: TW2304092-01E

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

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Test Report Conclusion

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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 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
Model Number: K652-RGB-PRO

Additional Model Name N/A

Rating: DC5V, 620mA or DC3.7V, 120mA Battery DC3.7V, 1600mAh Li-ion battery

Modulation Type: GFSK

Operation Frequency: 2403-2480MHz

Channel Number: 16

Channel List (Unit: MHz): 2403, 2424, 2441, 2461, 2414, 2435, 2450, 2470, 2409, 2429, 2455, 2480,

2419, 2445, 2465, 2480

Hardware Version: 8909-A V1 Software Version: 7FD7

Serial No.: RDK652GG-RGB-PRO23031000443

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: 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	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

TL. PIT L. L.	441	1: 4 - 41	C-11	<u>: C:</u> 4 <u>:</u>
The EUT has been	i testen acco	raing to the	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

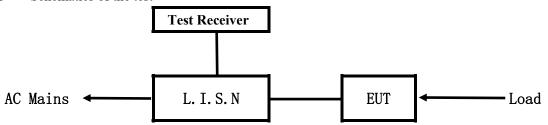
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

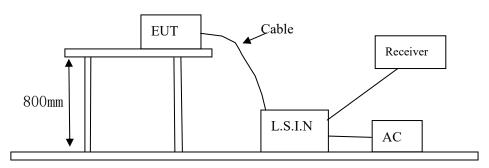


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

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



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

16 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
REDRAGON 75% LOW-PROFILE WIRELESS MECHANICAL KEYBOARD	Eastern Times Technology Co.,Ltd	K652-RGB-PRO, K652GG-RGB-PRO, ET-8909	TUVET-8909A

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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 C63.4 -2014

- 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)

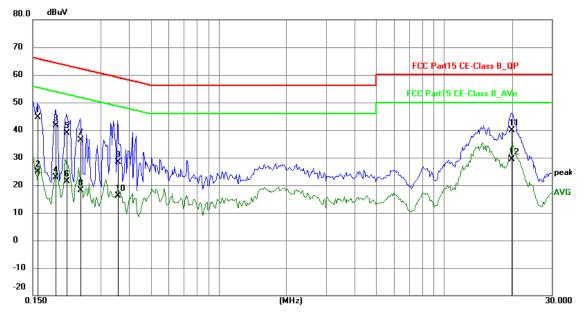
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep Transmitting

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	34.80	9.78	44.58	65.58	-21.00	QP	Р
2	0.1578	15.16	9.78	24.94	55.58	-30.64	AVG	Р
3	0.1890	31.94	9.76	41.70	64.08	-22.38	QP	Р
4	0.1890	13.17	9.76	22.93	54.08	-31.15	AVG	Р
5	0.2124	29.21	9.75	38.96	63.11	-24.15	QP	Р
6	0.2124	11.59	9.75	21.34	53.11	-31.77	AVG	Р
7	0.2436	26.64	9.75	36.39	61.97	-25.58	QP	Р
8	0.2436	8.50	9.75	18.25	51.97	-33.72	AVG	Р
9	0.3567	18.57	9.76	28.33	58.80	-30.47	QP	Р
10	0.3567	6.36	9.76	16.12	48.80	-32.68	AVG	Р
11	19.8948	29.20	10.67	39.87	60.00	-20.13	QP	Р
12	19.8948	18.64	10.67	29.31	50.00	-20.69	AVG	Р

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

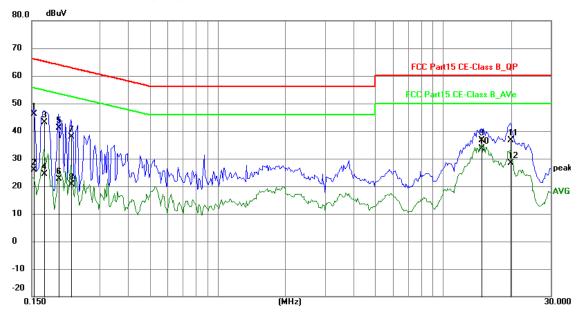
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep Transmitting

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	36.44	9.78	46.22	65.79	-19.57	QP	Р
2	0.1539	16.01	9.78	25.79	55.79	-30.00	AVG	Р
3	0.1695	33.26	9.77	43.03	64.98	-21.95	QP	Р
4	0.1695	14.62	9.77	24.39	54.98	-30.59	AVG	Р
5	0.1968	31.47	9.75	41.22	63.74	-22.52	QP	Р
6	0.1968	12.77	9.75	22.52	53.74	-31.22	AVG	Р
7	0.2241	28.24	9.75	37.99	62.67	-24.68	QP	Р
8	0.2241	10.84	9.75	20.59	52.67	-32.08	AVG	Р
9	14.8170	26.24	10.37	36.61	60.00	-23.39	QP	Р
10	14.8170	23.14	10.37	33.51	50.00	-16.49	AVG	Р
11	19.9260	25.94	10.68	36.62	60.00	-23.38	QP	Р
12	19.9260	17.60	10.68	28.28	50.00	-21.72	AVG	Р

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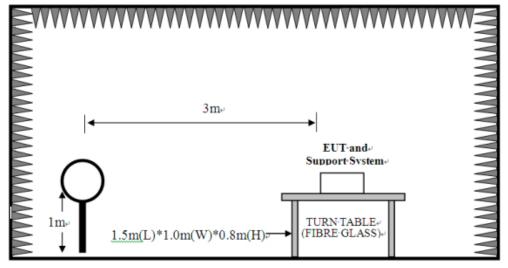


6 Radiated Emission Test

- 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

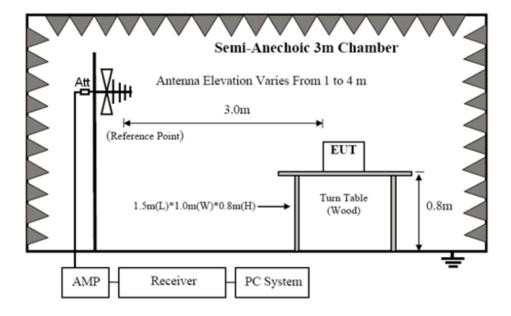


For radiated emissions from 30MHz to1GHz

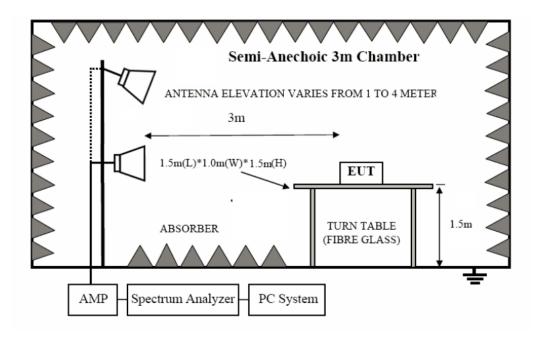
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For radiated emissions above 1GHz



- 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 S	trength of Harmo	nics (3m)	
(MHz)	mV/m	dBu	V/m	uV/m	dBuV/m		
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)	

Note: 1. R

- 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		
30-80	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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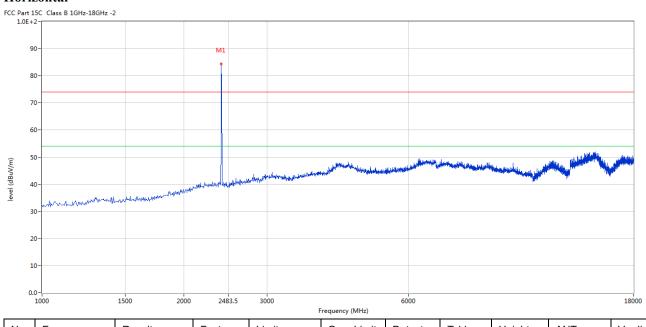


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2403MHz

Horizontal



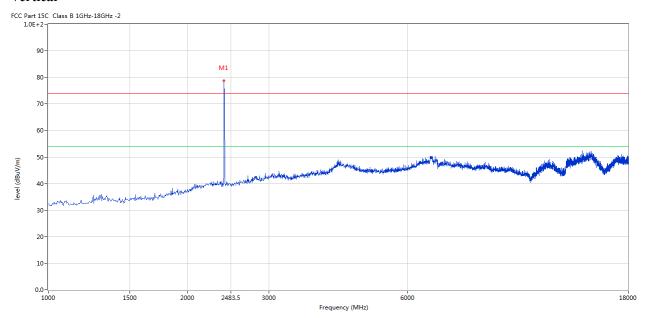
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2403	84.83	-3.57	114.0	-29.17	Peak	235.00	100	Horizontal	Pass

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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	2403	78.77	-3.57	114.0	-35.23	Peak	149.00	100	Vertical	Pass

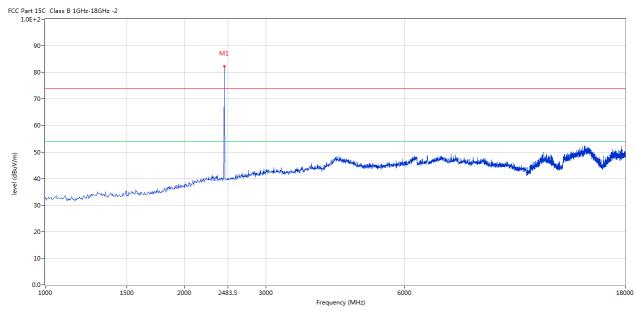
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



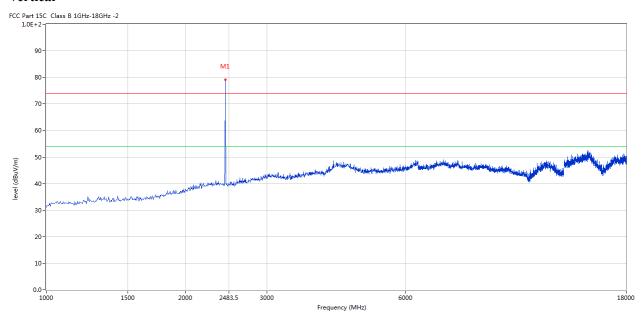
Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	2441	82.22	-3.57	114.0	-31.78	Peak	131.00	100	Horizontal	Pass

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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	79.19	-3.57	114.0	-34.81	Peak	44.00	100	Vertical	Pass

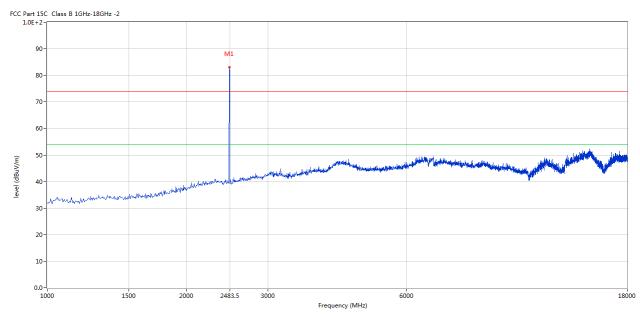
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



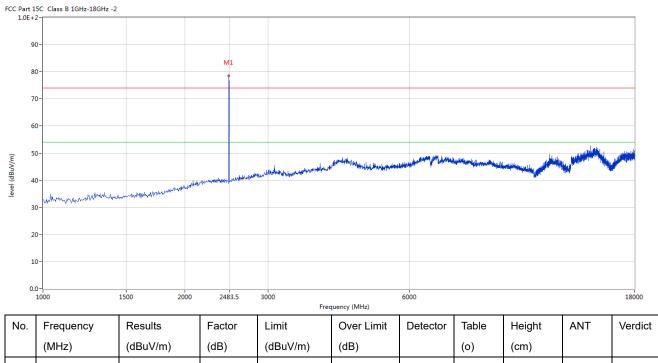
ı	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	2480	83.12	-3.57	114.0	-30.88	Peak	271.00	100	Horizontal	Pass

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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	78.68	-3.57	114.0	-35.32	Peak	62.00	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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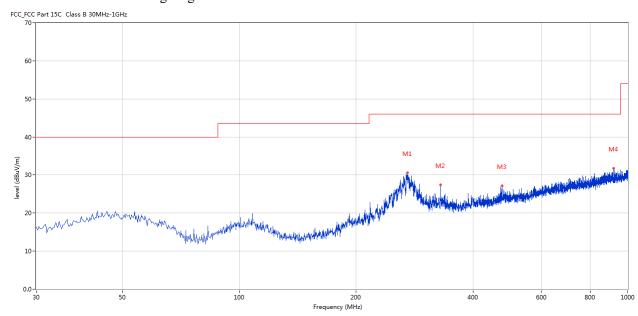


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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	270.742	30.62	-11.73	46.0	-15.38	Peak	252.00	100	Horizontal	Pass
2	329.898	27.48	-10.25	46.0	-18.52	Peak	245.00	100	Horizontal	Pass
3	474.634	27.21	-7.37	46.0	-18.79	Peak	79.00	100	Horizontal	Pass
4	920.237	31.83	-1.75	46.0	-14.17	Peak	106.00	100	Horizontal	Pass

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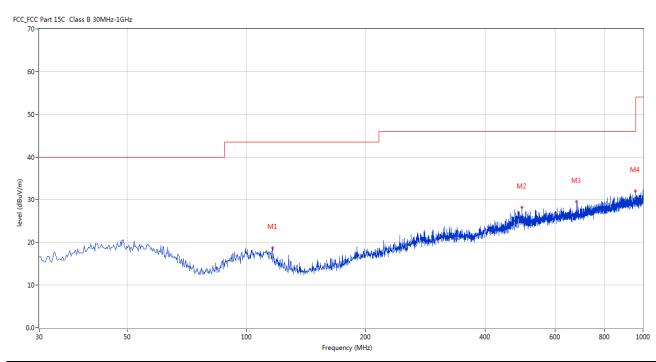


Radiated Emission In Vertical (30MHz----1000MHz)

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)		(o)	(cm)		
1	116.308	18.77	-14.68	43.5	-24.73	Peak	0.00	100	Vertical	Pass
2	495.726	28.22	-7.13	46.0	-17.78	Peak	181.00	100	Vertical	Pass
3	680.465	29.59	-4.45	46.0	-16.41	Peak	345.00	100	Vertical	Pass
4	957.816	31.99	-1.68	46.0	-14.01	Peak	23.00	100	Vertical	Pass

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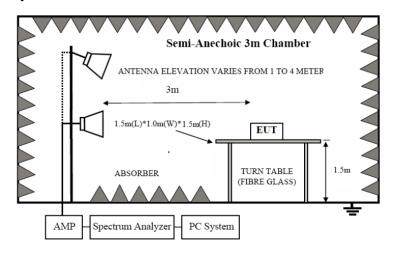


7. Band Edge

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.

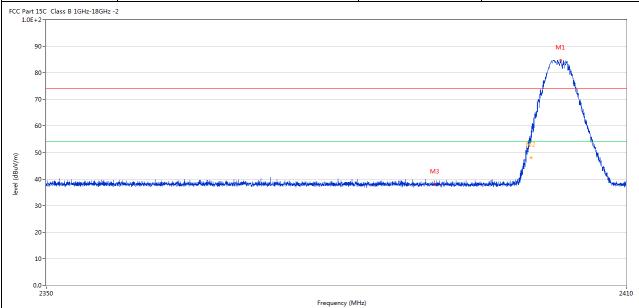
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7.6 Test Result

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)		(o)	(cm)		
1	2403.132	84.71	-3.57	74.0	10.71	Peak	271.00	100	Horizontal	N/A
2	2400.072	58.13	-3.57	74.0	-15.87	Peak	132.00	100	Horizontal	Pass
2**	2400.072	47.99	-3.57	54.0	-6.01	AV	132.00	100	Horizontal	Pass
3	2390.040	38.02	-3.53	74.0	-35.98	Peak	77.00	100	Horizontal	Pass

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]	Product:			OW-PROFIL CHANICAL ARD		Detector		Vertical				
	Mode	Kee	eping Tran	smitting	Tes	st Voltage		DC3.7V				
Te	mperature		24 deg.	С,	Н	Iumidity		56% RH				
Te	est Result:		Pass									
(w/ngg) jayaj	0-	hajimaliyoodaasayittigaayi ween wakib	Month de la	north-actual acceptation before the finite annual sing	Market and a special and a	M3	dagh 1974 kunsyeya pindaga k	ME	M1	Marenand		
1	.0- .0- .2350			Fre	equency (MHz)					2410		
0	0-	Results	Factor	1	equency (MHz)	Detector	Table	Height	ANT	I		
0	Prequency	Results (dBuV/m)	Factor (dB)	Limit	Over Limit	Detector	Table	Height (cm)	ANT	2410		
0 No.	0-	Results (dBuV/m)	Factor (dB)	1	1	Detector Peak	Table (o) 63.00	Height (cm)	ANT Vertical	I		
1	Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	Over Limit (dB)		(0)	(cm)		Verdi		

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2**

2483.414

44.45

-3.57

54.0



Product:		REDRAGON 75% LOW-PROFILE WIRELESS MECHANICAL KEYBOARD				Pola	nrity		Horizonta	ıl
	Mode	k		ansmitting		Test V	oltage		DC3.7V	
Te	emperature		24 de			Hum				
	Test Result: Pa					-	· · · · · · · · · · · · · · · · · · ·			
(m/vala) average (abuve) see a	20- 10- 10- 10- 10- 20-	anterior in the second sec	MI	NAME OF THE PARTY	Manufactions	nd lidder i de en skeft ste perjepte -	بناريخ والمراسعة	alander state of the state of t	itt lie die der de vier en ste den de vierel.	A Alder Najvadraje
0	.0- 2470			2483.5	Frequency (MHz)					2500
No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdi
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2479.988	83.09	-3.57	74.0	9.09	Peak	272.00	100	Horizontal	N/A
										IN/A

-9.55

ΑV

272.00

100

Horizontal

Pass

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		REDRAC	iON 75% l	LOW-PROFI	LE							
]	Product:	WIRE	LESS ME	CHANICAL	Γ	etector		V	ertical			
			KEYBO	ARD								
	Mode	Ke	eping Tran	nsmitting	Tes	st Voltage		DC3.7V				
Те	Temperature 24 deg. C, Humidity							56	5% RH			
Τe	est Result:		Pass	1								
CC Part 1	.5C Class B 1GHz-18GHz 2-	-2										
0												
9	0-		M1									
8	0-		Jones	M								
7	0-											
6	0-		/	1								
			/	,M2								
5	0-			1								
4		المحتم خلين بالمراجل بالمسابقة بالمسارة والمناب			Herekalapatakan melabugan	والمراجعة والمناوا والمعاولة	na national public de la fermanda de	had make the day	dinambandiya (Barrandiniya (dibar)	mbardun		
	0-											
2	0-											
-												
1	0-											
0.	0- 2470			2483.5						2500		
	1			Fre	equency (MHz)	1	I	·		1		
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdid		
IVO.	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)				
140.	` '		2.57	74.0	4.47	Peak	57.00	100	Vertical	N/A		
1	2479.875	78.47	-3.57	74.0						,,		

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. The antenna gain is 0.11dBi Max. It fulfills the requirement of this section. Test Result: Pass

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	REDRAGON 75% LOW-PROFILE									
Product:	WIRELE	SS MECH	ANICAL		Test Mode:			Keep tran	smitting	
	K	EYBOARI)							
Mode		Test	Voltage	DC3.7V 56% RH PK						
Temperature 24 deg. C,									Hu	ımidity
Test Result:	Pass	Pass						etector		
dB Bandwidth	2.545MHz									
	Marker	1 [T1 n	.dB]	RI	ВW	100 k	Hz RI	Att	20 dB	
Ref Lvl	ndB 20.00 dB				BW 300 kHz					
10 dBm	BW	2.545090	18 MHz	Sī	VТ	5 m	s Ur	nit	dBı	m
						v ₁	[T1]	-4	.64 dBr	n
								2.40239	078 GH2	
0		1				ndE	3	20	.00 dB	
				\	\wedge	BW ▼ _{T1}	[T1]	2.54509	018 MH ₂	
-10		/ \	j		~~	M		2.40162		1
		MIN				∆_T.	2 [T1]	-24	.46 dBr	n,
1MAX	T1						V_{∇}^{2}	2.40417	435 GHz	1
IMAX	arran market									
-30	<u> م</u>						Ť,			
							Jun	~ www.m		
-40							•	<u> </u>	1	
MAN									Mul	4
-50										
-60					+					
70					+					1
-80					+					1
-90 Center 2.4			500]						n 5 MH2	╛

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Product:	REDRAGON 75% LOW-PROFILE WIRELESS MECHANICAL KEYBOARD					Т	est Mode:		Keep transmitting		
Mode	tting		Te	est Voltage		DC3.7V					
Temperature]	Humidity		56%	6 RH	
Test Result:			Pass				Detector		F	PK	
20dB Bandwidth		2.	425MHz						,		
Ref Lvl 10 dBm	r	ndB	1 [T1 r 20.	00 dB	V	BW BW SWT	100 ki 300 ki	Hz	F Att	20 dB	1
0				~~	\		v1 ndB BW	[T1]	-3 2.44040 20 2.42484	.67 dBm 080 GHz .00 dB 970 MHz	A
-10		T1				\	▼ _T	[T1] [T1]	-23 2.43973 -24 2.44216	.61 dBm 948 GHz .15 dBm 433 GHz	
-30	سممر							<u> </u>			1MA
-40								Your	Man Man	V _V	
-50 WW										YH Luh	
-60											
-70											
-80											
-90 Center 2	.441027	054 GH2	<u> </u>	500	kHz/				Spa	n 5 MHz	
Date: 8.	.MAY.202	3 12:	25:53								

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Product:	REDRAGON 75% LOW-PROFILE WIRELESS MECHANICAL KEYBOARD					est Mode:		Keep transmitting		
Mode	Ke	eping Transmi	tting		Test Voltage			DC3.7V		
Temperature		24 deg. C,				Humidity		56%	6 RH	
Test Result:		Pass				Detector		F	PΚ	
20dB Bandwidth		2.395MHz								
Ref Lvl 10 dBm	Mark ndB BW	xer 1 [T1 r 20. 2.394789	.00 dB	V	BW BW WT	100 k: 300 k: 5 m;	Hz	F Att	20 dB	ı
0		1		۸		V1 nd8 BW	[T1]	-7 2.47939 20 2.39478	.00 dB 958 MHz	A
-10 -20 1MAX	Ţ				~~	7/1	[T1] [T1]	-27 2.47879 -27 2.48118	.40 dBm 259 GHz .25 dBm 737 GHz	1MA
-30	Mary Area and a second	7					· ·	M	*	
-50									Muny	
-60										
-70										
-80										
Center 2		12:24:02	500	kHz/				Spa	n 5 MHz	

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10.0 FCC ID Label

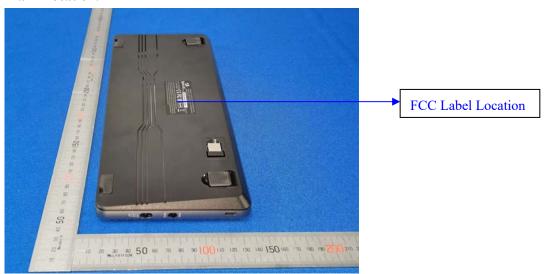
FCC ID: TUVET-8909A

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--



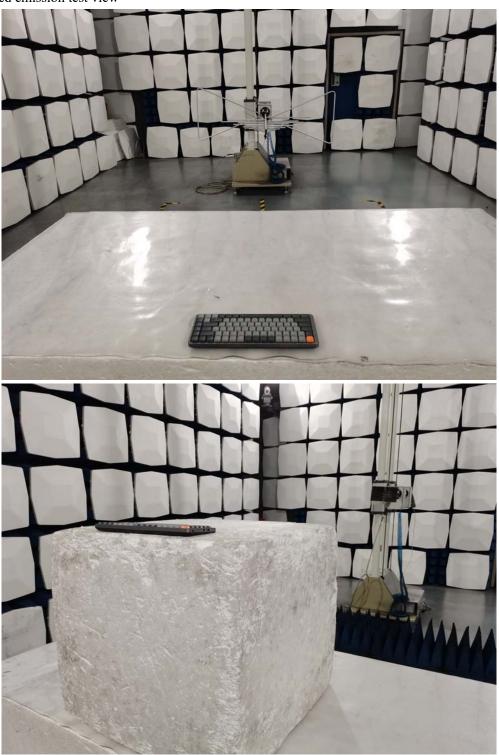
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Radiated emission test view



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11.2 Outside View



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Outside View





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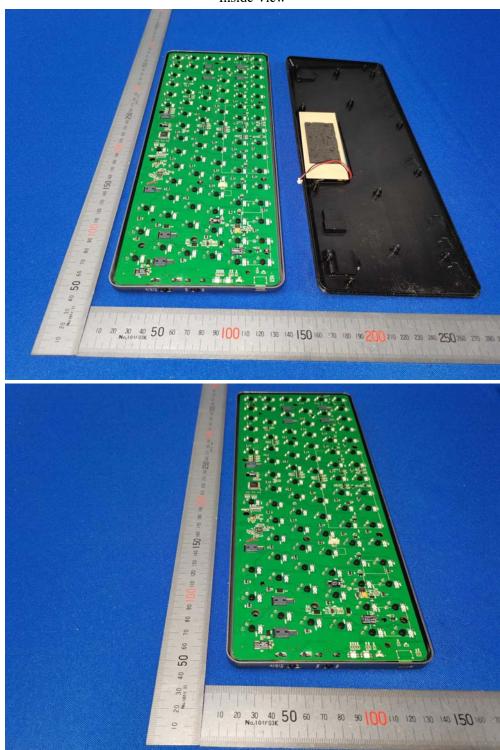
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Inside View



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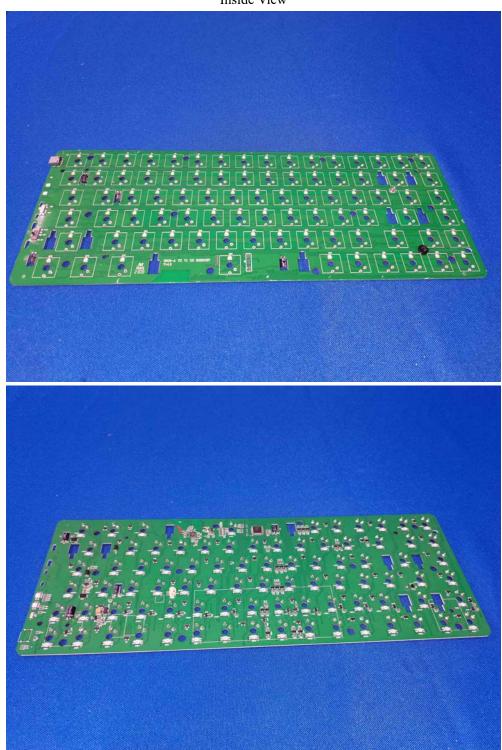
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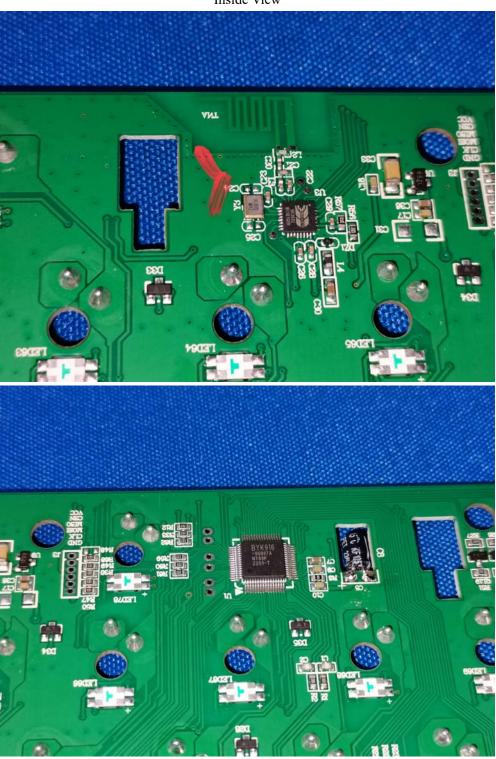
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Inside View



-- End of the Report--

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