

Report No.: TW2409059-01E

Applicant: Eastern Times Technology Co., Ltd

Product: WIRED/2.4G/BT 3 MODES MECHANICAL KEYBOARD

Model No.: K618RGB-PRO, K618W-RGB-PRO, ET-8945

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

Term lang

Terry Tang

Manager

Dated: September 14, 2024

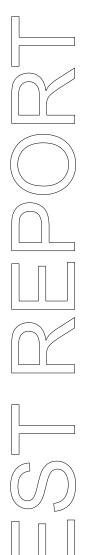
Results appearing herein relate only to the sample tested

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



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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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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.

1.3 Description of EUT

Product: WIRED/2.4G/BT 3 MODES 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: K618RGB-PRO

Additional Model Name K618W-RGB-PRO, ET-8945

Rating: Input: DC5V, 710mA or DC3.7V, 210mA

Battery DC3.7V, 1900mAh Li-ion battery

Modulation Type: GFSK

Operation Frequency: 2405-2475MHz

Channel List (Unit: MHz): 2405, 2426, 2441, 2463, 2407, 2422, 2445, 2466, 2414, 2436, 2459, 2473,

2419, 2439, 2453, 2475

Hardware Version: 8882-A RX V1 Software Version: 6a623b1c

Serial No.: RDK618RGB-PRO24052302248

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 2024-09-14

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	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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3.0 Technical Details

3.1 Summary of test results

The EU	T has been	tested acco	ording to the	following	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

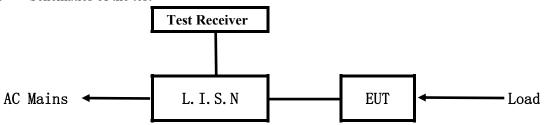
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

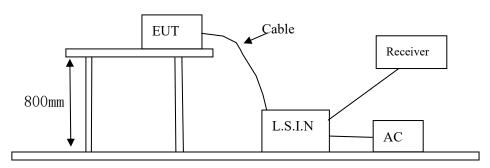


EUT: Equipment Under Test

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
WIRED/2.4G/BT 3 MODES	Eastern Times Technology	K618RGB-PRO,	
MECHANICAL		K618W-RGB-PRO,	TUVET-8945AUS
KEYBOARD	Co., Ltd	ET-8945	

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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 (d	lB μV)
(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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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

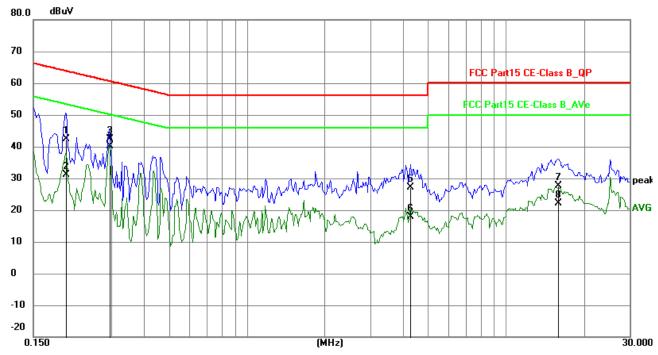
EUT Operating Environment

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	0.2007	32.72	9.75	42.47	63.58	-21.11	QP	Р
2	0.2007	21.40	9.75	31.15	53.58	-22.43	AVG	Р
3	0.2943	32.59	9.76	42.35	60.40	-18.05	QP	Р
4	0.2943	30.40	9.76	40.16	50.40	-10.24	AVG	Р
5	4.2831	17.21	9.90	27.11	56.00	-28.89	QP	Р
6	4.2831	8.01	9.90	17.91	46.00	-28.09	AVG	Р
7	15.8778	17.24	10.43	27.67	60.00	-32.33	QP	Р
8	15.8778	11.77	10.43	22.20	50.00	-27.80	AVG	Р

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

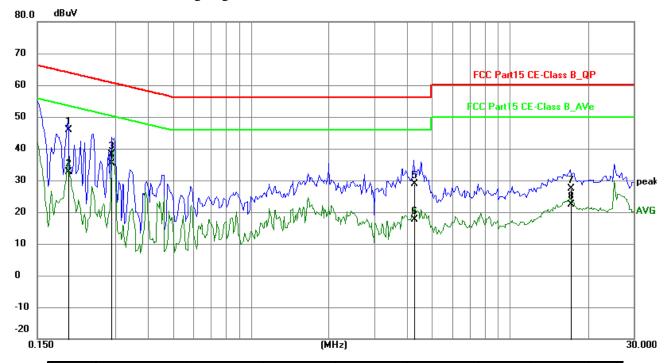
EUT Operating Environment

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	0.1968	36.19	9.75	45.94	63.74	-17.80	QP	Р
2	0.1968	22.88	9.75	32.63	53.74	-21.11	AVG	Р
3	0.2904	28.46	9.76	38.22	60.51	-22.29	QP	Р
4	0.2904	25.69	9.76	35.45	50.51	-15.06	AVG	Р
5	4.2558	18.92	9.90	28.82	56.00	-27.18	QP	Р
6	4.2558	7.70	9.90	17.60	46.00	-28.40	AVG	Р
7	17.1336	16.99	10.51	27.50	60.00	-32.50	QP	Р
8	17.1336	11.92	10.51	22.43	50.00	-27.57	AVG	Р

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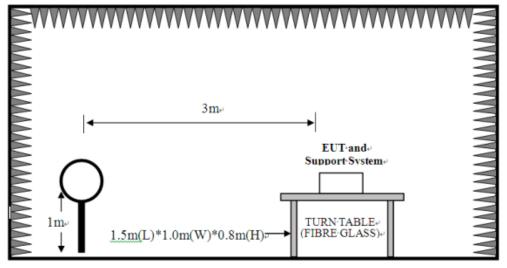


6 Radiated Emission Test

- 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

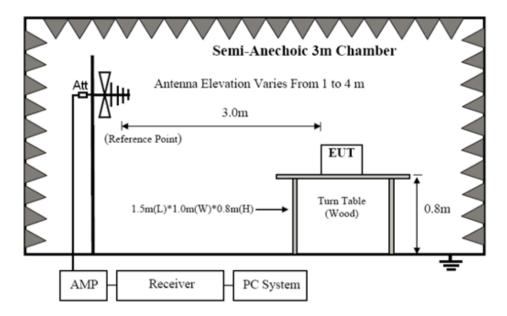


For radiated emissions from 30MHz to1GHz

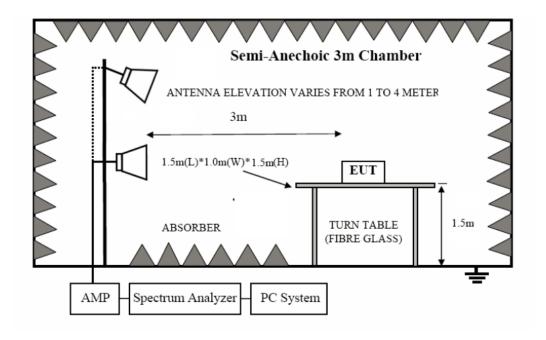
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For radiated emissions above 1GHz



- 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. 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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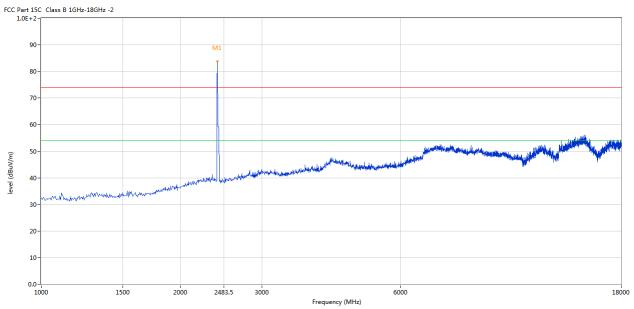


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2405MHz

Horizontal



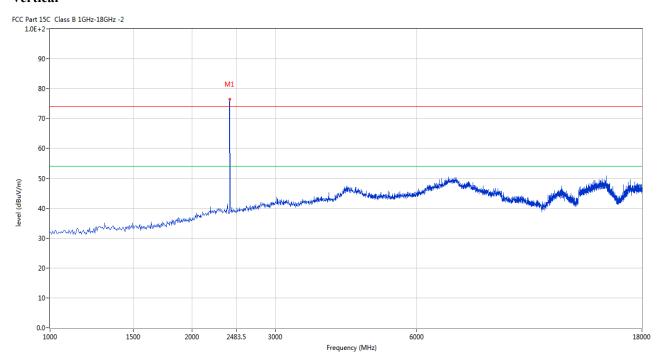
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	2405	83.74	-3.57	114.0	-30.26	Peak	157.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2405	76.47	-3.57	114.0	-37.53	Peak	70.00	100	Vertical	Pass

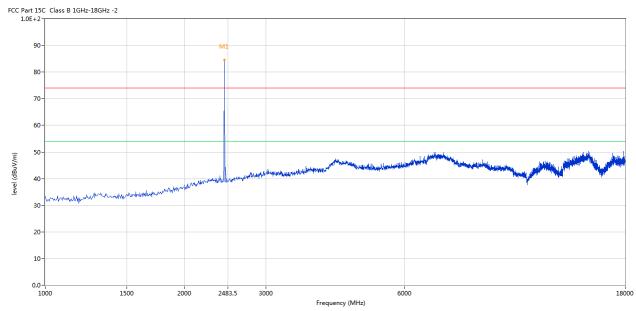
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



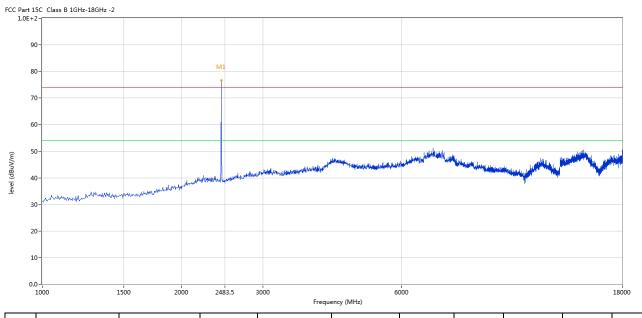
Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	2441	84.54	-3.57	114.0	-29.46	Peak	147.00	100	Horizontal	Pass

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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	76.60	-3.57	114.0	-37.40	Peak	21.00	100	Vertical	Pass

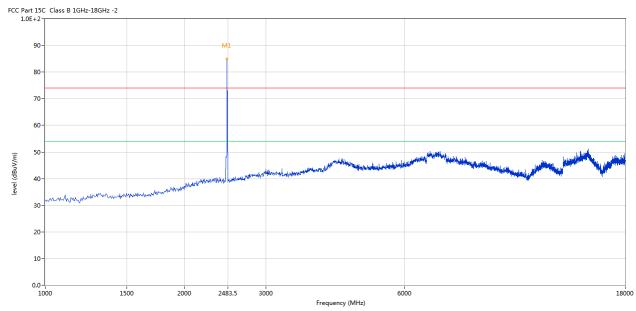
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Please refer to the following test plots for details: High Channel-2475MHz

Horizontal



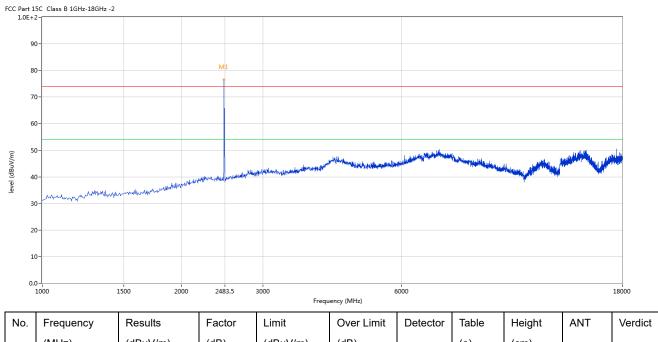
Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	2475	84.88	-3.57	114.0	-29.12	Peak	62.00	100	Horizontal	Pass

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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	2475	76.46	-3.57	114.0	-37.54	Peak	135.00	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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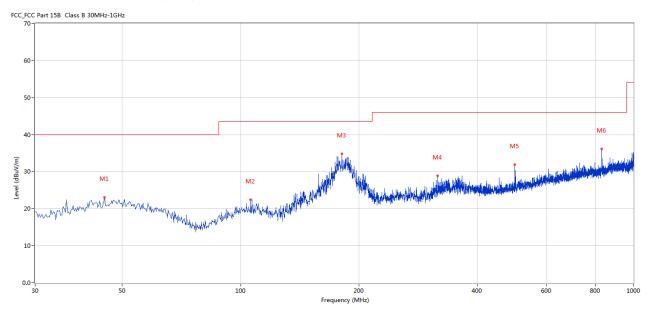


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	45.031	23.05	-11.41	40.0	16.95	Peak	312.00	100	Horizontal	Pass
2	106.126	22.36	-13.32	43.5	21.14	Peak	244.00	100	Horizontal	Pass
3	181.040	34.77	-15.15	43.5	8.73	Peak	262.00	100	Horizontal	Pass
4	317.291	28.85	-10.78	46.0	17.15	Peak	326.00	100	Horizontal	Pass
5	499.363	31.96	-6.97	46.0	14.04	Peak	58.00	100	Horizontal	Pass
6	830.777	36.12	-2.81	46.0	9.88	Peak	252.00	100	Horizontal	Pass

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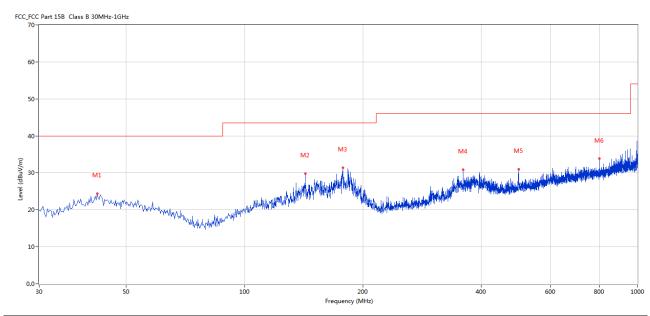


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	42.122	24.35	-11.64	40.0	15.65	Peak	252.00	100	Vertical	Pass
2	142.977	29.78	-17.26	43.5	13.72	Peak	252.00	100	Vertical	Pass
3	177.888	31.38	-15.56	43.5	12.12	Peak	243.00	100	Vertical	Pass
4	359.718	30.81	-9.44	46.0	15.19	Peak	294.00	100	Vertical	Pass
5	498.878	31.00	-7.04	46.0	15.00	Peak	265.00	100	Vertical	Pass
6	799.988	33.82	-2.96	46.0	12.18	Peak	293.00	100	Vertical	Pass

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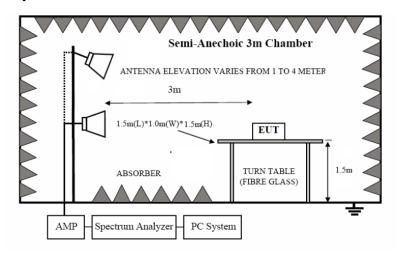


7. Band Edge

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.

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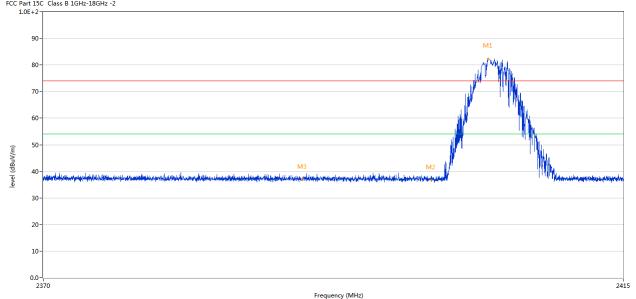
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7.6 Test Result					
Product:	WIRED/2.4G/BT 3 MODES	Polarity	Horizontal		
Product:	MECHANICAL KEYBOARD	Polarity	попдоща		
Mode	Keeping Transmitting	Test Voltage	DC3.7V		
Temperature	24 deg. C,	Humidity	56% RH		
Test Result:	Pass				
FCC Part 15C Class B 1GHz-18GHz -2					
1.0E+2-					
90-			M1		
80-			a Maril 1		



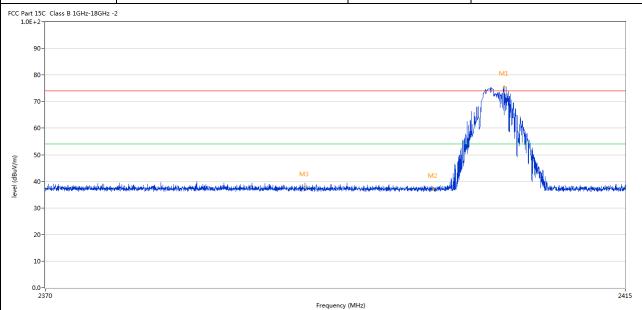
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict			
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)					
1	2404.454	82.38	-3.57	74.0	8.38	Peak	72.00	100	Horizontal	N/A			
2	2400.000	36.70	-3.57	74.0	-37.30	Peak	229.00	100	Horizontal	Pass			
3	2390.000	36.85	-3.53	74.0	-37.15	Peak	150.92	100	Horizontal	Pass			

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Product:	WIRED/2.4G/BT 3 MODES MECHANICAL KEYBOARD	Detector	Vertical
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	2405.516	75.53	-3.57	74.0	1.53	Peak	51.00	100	Vertical	N/A
2	2400.000	37.16	-3.57	74.0	-36.84	Peak	159.08	100	Vertical	Pass
3	2390.000	37.79	-3.53	74.0	-36.21	Peak	123.75	100	Vertical	Pass

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Product:	WIRED/2.4G/BT 3 MODES	Polarity	Horizontal
Troduct.	MECHANICAL KEYBOARD	1 Glarity	Horizontai
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
CC Part 15C Class B 1GHz-18GHz -2			
90-	M1		
80-			
70-			
	ille de la companya		

_	.0212	
	90-	M1
	80-	
	70-	
	60-	
V/m)	50-	
level (dBuV/m)	40-	the property of the property o
	30-	
	20-	
	10-	
	0.0-	
	24	60 2483.5 2500 Frequency (MHz)

No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2474.546	83.59	-3.57	74.0	9.59	Peak	158.00	100	Horizontal	N/A
2	2483.500	38.15	-3.57	74.0	-35.85	Peak	220.40	100	Horizontal	Pass

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-	Product: WIRED/2.4 MECHANIC			T 3 MODES KEYBOARD	, 1	Detector		Ve	ertical		
	Mode	Ke	eping Trai	nsmitting	Tes	Test Voltage DC3.7V					
Te	mperature		24 deg.	. С,	Н	Iumidity		56% RH			
Т	est Result:		Pass								
CC Part 1 1.0E+	L5C Class B 1GHz-18GHz	-2									
g	10-										
				M1							
8	50-			MILA .							
7	70-		11	" "							
6	60-		- W	- 17							
Ē 5	60-			1111							
level (dbuv/m)	المارية والمارية المارية المارية والمارية والمارية والمارية والمارية والمارية والمارية والمارية والمارية والمارية	والمراوية والمراوية والمراوية والمراوية والمراوية			M2	ورجام والمراوعة محالس الامامة	alcount about the	stor that a cultural of	a. Data and a conference of		
	O-	ACCES ON THE PROPERTY OF THE P	The second secon		A CONTRACTOR OF THE PERSON OF	ALTERNATION OF THE PROPERTY OF	and the second of the State of	A control (1) to a manufacture of the control of th	A description of the second se		
٥											
	0-										
2	.0-										
2	.0-										
2	.0-			Fr	2483 equency (MHz)	5.5				2500	
1 0	.0-	Results	Factor	Fr Limit		Detector	Table	Height	ANT	Ι	
1 0	0-2460	Results (dBuV/m)	Factor (dB)	1	equency (MHz)	T	Table (o)	Height (cm)	ANT	Π	
2	o- 2460 Frequency			Limit	Over Limit	T		_	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. The antenna gain is 2.34dBi Max. It fulfills the requirement of this section. Test Result: Pass

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9.0 20dB Bandwidt	h Measurement		
Product:	WIRED/2.4G/BT 3 MODES	Test Mode:	Keep transmitting
Troduct.	MECHANICAL KEYBOARD	rest wiode.	reep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.540MHz		
\wedge			



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Product: WIRED/2.4G/BT 3 M MECHANICAL KEYE			Test Mode:	Keep transmitting	
Mode	Keeping Trai	nsmitting	Test Voltage	DC3.7V	
Temperature	24 deg.	. C,	Humidity	56% RH	
Test Result:	Pass	5	Detector	PK	
20dB Bandwidth	2.516M	IHz			
Ref 10 dB	m *Att 20	*RBW 100 *VBW 300) dB SWT 2.5	kHz	1 [T1] -9.03 dBm 440391026 GHz	
10			ndB [T1 BW 2. Temp 1] 20.00 dB 516025641 MHz [T1 ndB] A	
1 PK MAXH	1			-29.05 dBm 439613782 GHz [T1 ndB]	
20			2.	-29.05 dBm 442129808 GHz	
30	T1 R		T2		
-4,0					
50				3DB	
60				and the second s	
70					
-80					
-90					
Center 2.4	141 GHz	500 kHz/		Span 5 MHz	

Date: 14.SEP.2024 14:15:23

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Product: WIRED/2.4G/BT 3 MODES MECHANICAL KEYBOARD				Test Mod	e:	Keep transmitting	
Mode		ing Transmitting	Test Volta	ge	DC3.7V		
Temperature		24 deg. C,		Humidit	у	56	5% RH
Test Result:		Pass		Detector			PK
dB Bandwidth		2.444MHz					
Ref 10 de	3m * <i>1</i>	Att 20 dB	*RBW 100 *VBW 300 SWT 2.5	kHz		1] -9.46 dBm 91026 GHz	
-0				ndE BW Tem	2.44391 p 1 [T1 r	29.49 dBm	A
-10		1		Ten	p 2 [T1 r	77885 GHz 24B] 29.55 dBm 21795 GHz	
30	T1 N			T2			
-40					A MANA A MANA		3DB
60						M.	
70-							
-80							
-90	475 GHz		kHz/			an 5 MHz	

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10.0 FCC ID Label

FCC ID: TUVET-8945AUS

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--



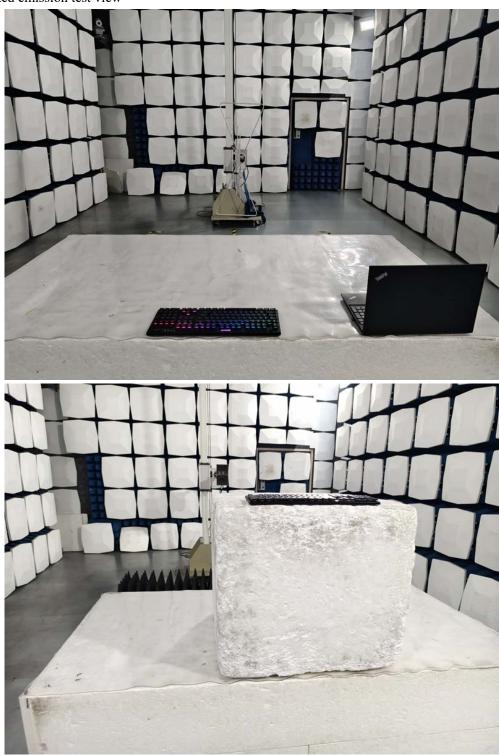
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Radiated emission test view



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11.2



Outside View-Keyboard



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Outside View-Keyboard



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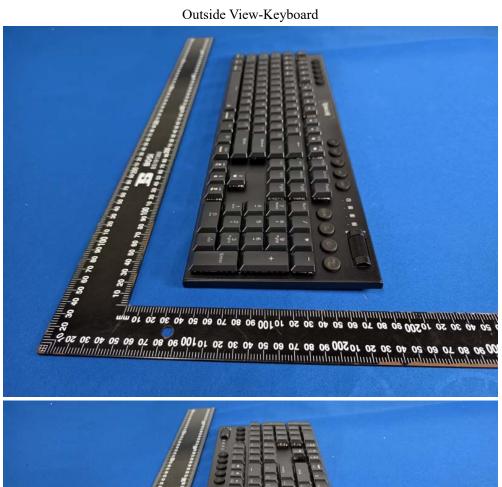
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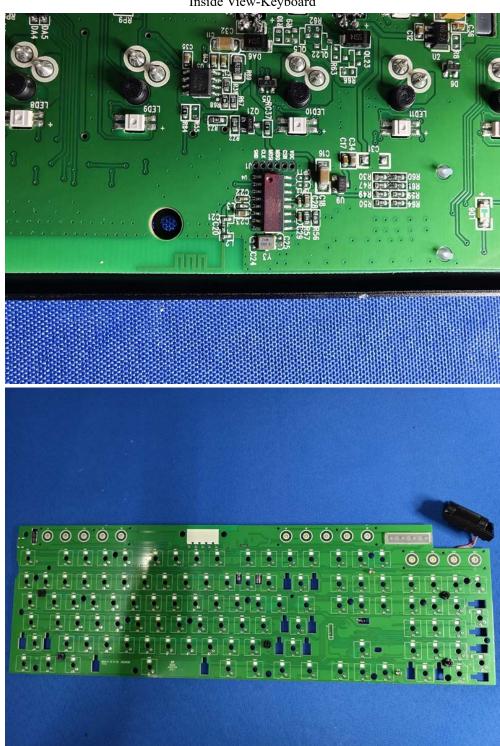
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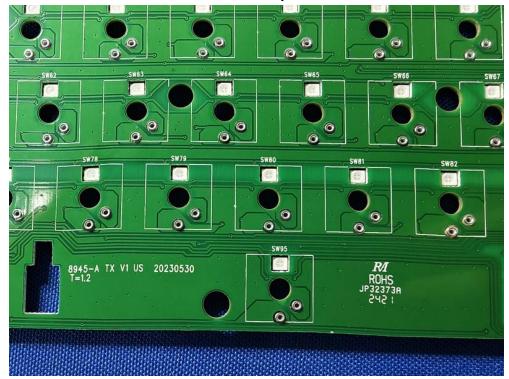
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-- End of the Report--