



Report No.: TWN2507858-02E

Applicant: Eastern Times Technology Co.,Ltd

Product: 3 MODES MECHANICAL KEYBOARD

Model No.: S136, ET-8672

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

A handwritten signature in black ink that reads 'Terry Tang'.

Terry Tang

Manager

Dated: October 15, 2025

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,  
Tong Le Village, Nanshan District, Shenzhen, China**

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



### **Special Statement:**

#### **FCC-Registration No.: 744189**

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

#### **ISED —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED 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**

#### **FCC Designation Number: CN1251**

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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 States  
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: 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  
Additional Trademark: N/A  
Model Number: S136  
Additional Model Name ET-8672  
Hardware Version: 8613-H TX V1  
Software Version: E296  
Serial No.: RDS13625051000741  
Rating: Input: DC5V, 700mA or DC3.7V, 200mA  
Battery: DC3.7V, 1600mAh Li-ion battery  
Modulation Type: GFSK  
Operation Frequency: 2402-2480MHz (Bluetooth Low Energy)  
Number of Channels: 40  
Channel Separation: 2MHz  
Antenna Designation PCB antenna with gain 2.08dBi Max (Get from the antenna specification)

### 1.4 Submitted Sample: 2 Samples

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1.5 Test Duration

2025-07-30 to 2025-10-15

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

*Andy Xing*

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	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100253	2025-07-11	2026-07-10
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2025-07-11	2026-07-10
Loop Antenna	EMCO	6507	00078608	2025-07-17	2028-07-16
Spectrum	R&S	FSIQ26	100292	2025-07-11	2026-07-10
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2025-07-17	2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2025-07-17	2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2025-07-11	2026-07-10
Power sensor	Anritsu	MA2491A	32263	2025-07-11	2026-07-10
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2025-07-17	2028-07-16
9*6*6 Anechoic	--	--	N/A	2025-07-11	2028-07-10
EMI Test Receiver	RS	ESCS 30	834115/006	2025-07-11	2026-07-10
Spectrum	HP/Agilent	E4407B	MY50441392	2025-07-11	2026-07-10
Spectrum	RS	FSP	1164.4391.38	2025-07-11	2026-07-10
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2025-07-11	2026-07-10
RF Cable	Zhengdi	7m	--	2025-07-11	2026-07-10
Pre-Amplifier	Schwarebeck	BBV9743	#218	2025-07-11	2026-07-10
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2025-07-11	2026-07-10
LISN	SCHAFFNER	NNB42	00012	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10

## 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

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.203</b>	<b>Antenna Requirement</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.207</b>	<b>Conducted Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(a) &amp; 15.249(b) Limit</b>	<b>Field Strength of Fundamental</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.209</b>	<b>Radiated Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(d) Limit</b>	<b>Band Edge Test</b>	<b>Pass</b>	<b>Complies</b>

#### 3.2 Test Standards

**FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024**

#### 4.0 EUT Modification

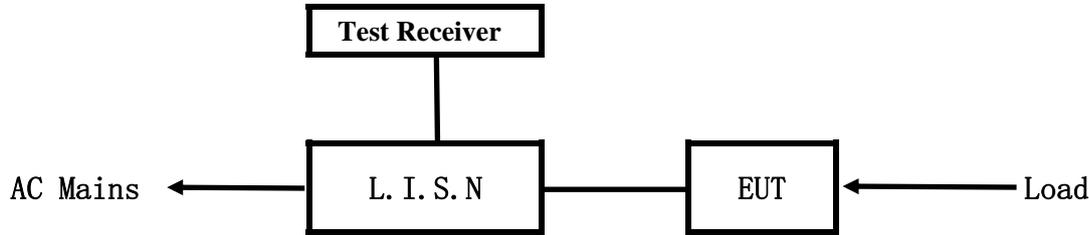
**No modification by SHENZHEN TIMEWAY TESTING LABORATORIES**

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**5. Power Line Conducted Emission Test**

5.1 Schematics of the test



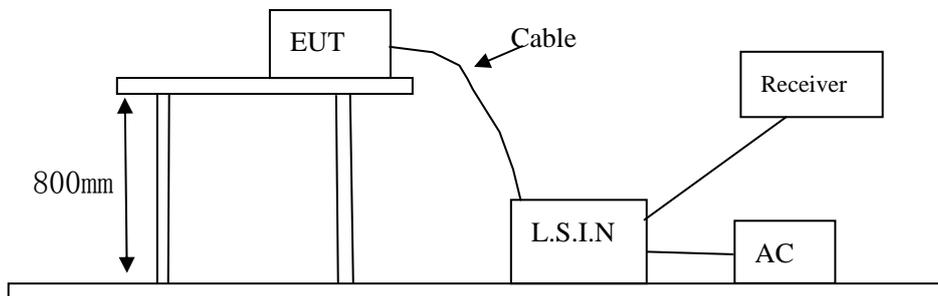
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
3 MODES MECHANICAL KEYBOARD	Eastern Times Technology Co.,Ltd	S136, ET-8672	TUVET-8613H

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
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N/A			
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C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	MDY-12-EF	Input: 100-240V~, 50/60Hz, 1.7A; Output: DC5V, 3A; 5-20A; 6.2- 3.25A(67W Max)
PC	ThinkPad	R4	Input: DC19.5V, 2.31A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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 (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 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)**

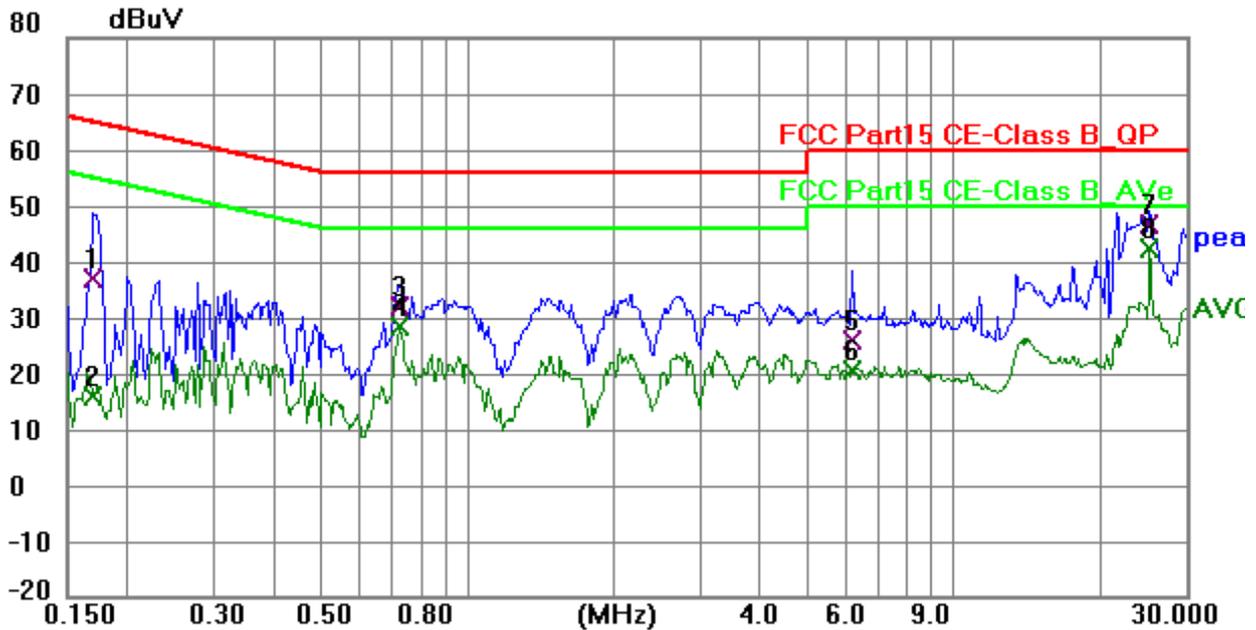
**EUT Operating Environment**

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	0.1695	26.50	10.33	36.83	64.98	-28.15	QP	P
2	0.1695	5.65	10.33	15.98	54.98	-39.00	AVG	P
3	0.7272	21.54	10.46	32.00	56.00	-24.00	QP	P
4	0.7272	17.87	10.46	28.33	46.00	-17.67	AVG	P
5	6.1902	13.30	12.62	25.92	60.00	-34.08	QP	P
6	6.1902	7.99	12.62	20.61	50.00	-29.39	AVG	P
7	25.2300	31.45	15.29	46.74	60.00	-13.26	QP	P
8	25.2300	26.98	15.29	42.27	50.00	-7.73	AVG	P

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

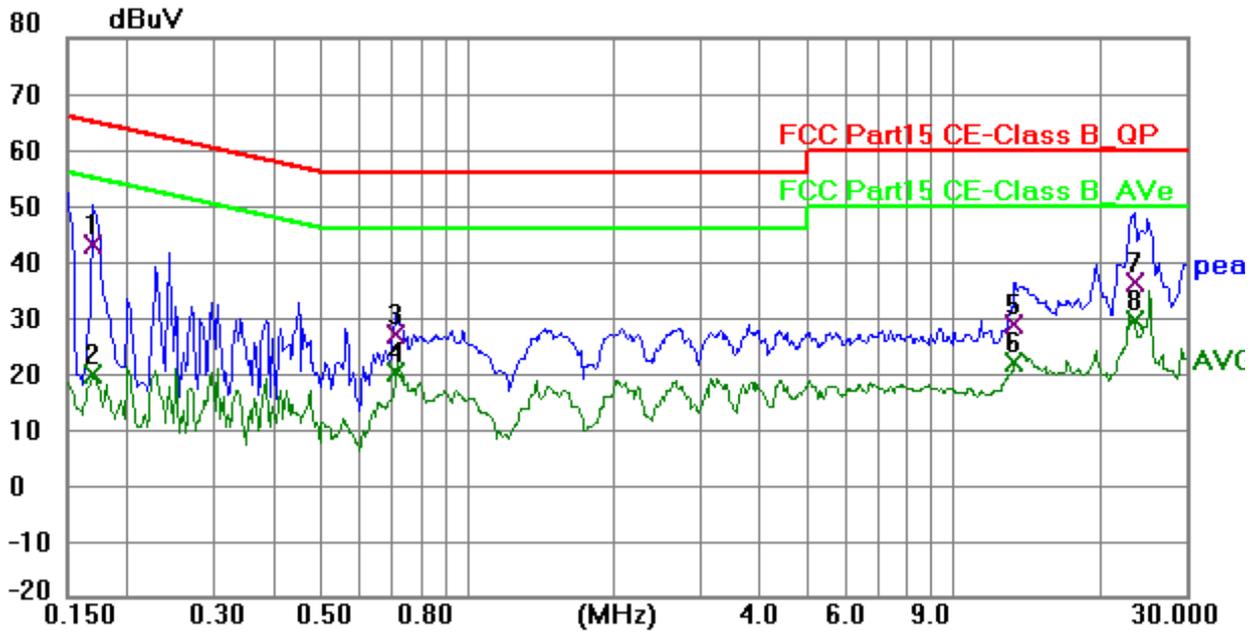
**EUT Operating Environment**

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	0.1695	32.77	10.33	43.10	64.98	-21.88	QP	P
2	0.1695	9.55	10.33	19.88	54.98	-35.10	AVG	P
3	0.7155	16.52	10.46	26.98	56.00	-29.02	QP	P
4	0.7155	9.64	10.46	20.10	46.00	-25.90	AVG	P
5	13.3311	14.19	14.69	28.88	60.00	-31.12	QP	P
6	13.3311	7.31	14.69	22.00	50.00	-28.00	AVG	P
7	23.6037	20.54	15.65	36.19	60.00	-23.81	QP	P
8	23.6037	13.66	15.65	29.31	50.00	-20.69	AVG	P

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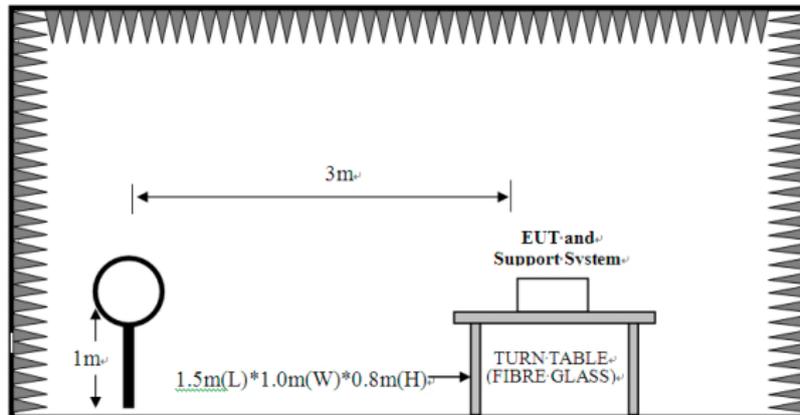
## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. 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 C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- (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



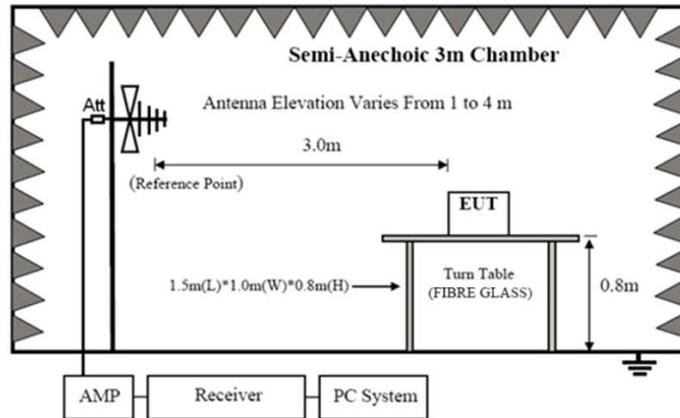
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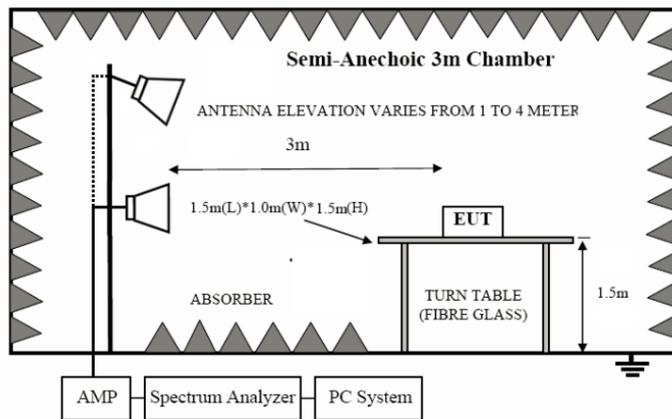
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For radiated emissions from 30MHz to 1GHz



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:

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 § 15.209, whichever is the lesser attenuation.

**A FCC Part 15 Subpart C Paragraph 15.249(a) Limit**

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)		
	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.
  7. For the radiated emissions from 30MHz-1000MHz, only the worst case was recorded and the middle channel (2440MHz) was the worst case.

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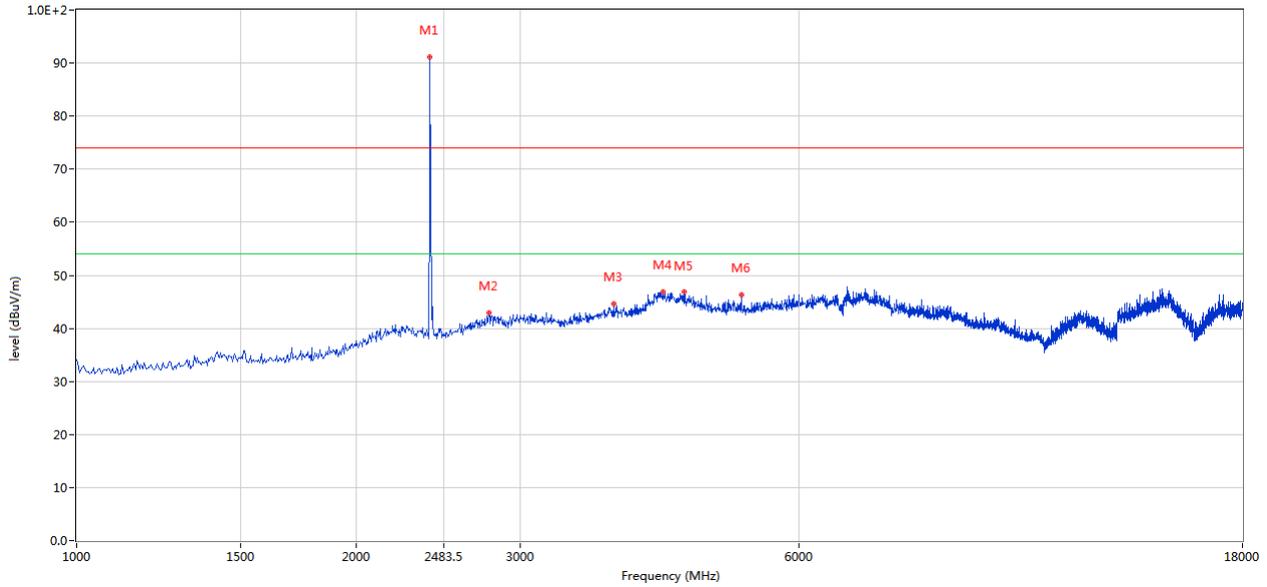
## 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	91.21	-3.57	114.0	-22.79	Peak	51.00	100	Horizontal	N/A
2	2780.305	43.02	-2.75	74.0	-30.98	Peak	139.00	100	Horizontal	Pass
3	3783.054	44.67	0.22	74.0	-29.33	Peak	196.00	100	Horizontal	Pass
4	4275.931	46.98	1.78	74.0	-27.02	Peak	149.00	100	Horizontal	Pass
5	4513.872	46.86	2.26	74.0	-27.14	Peak	51.00	100	Horizontal	Pass
6	5197.951	46.34	3.65	74.0	-27.66	Peak	315.00	100	Horizontal	Pass

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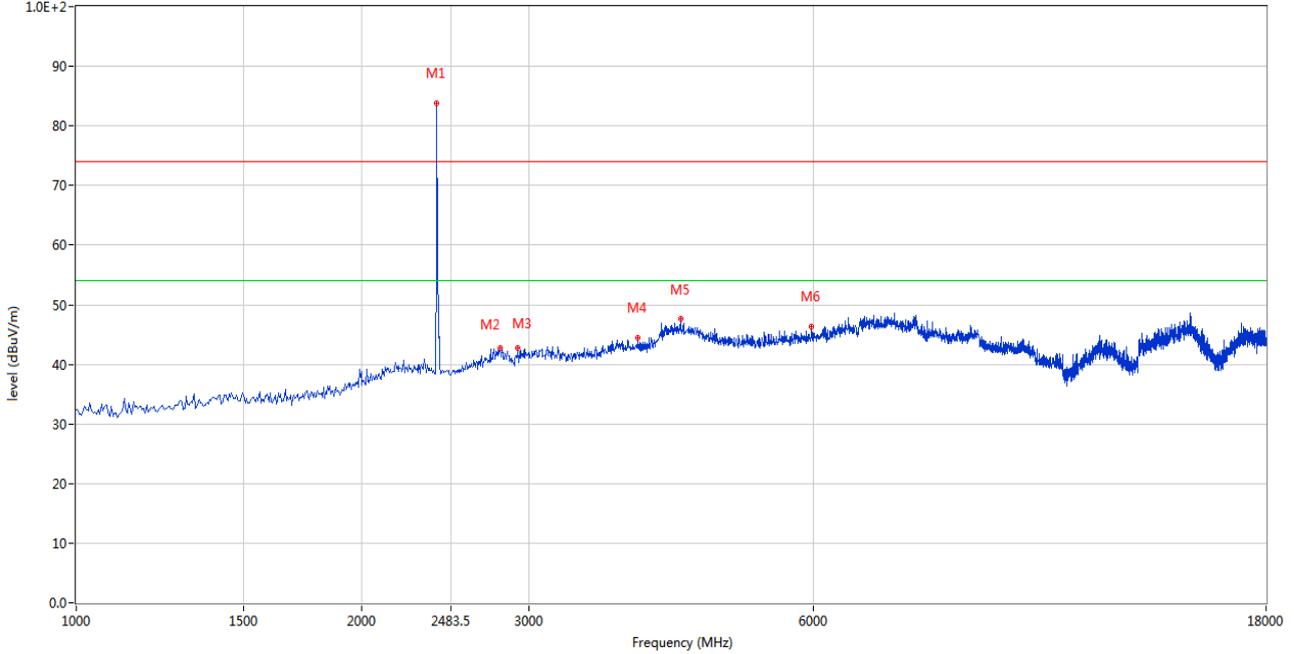
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**Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	83.85	-3.57	114.0	-30.15	Peak	327.00	100	Vertical	N/A
2	2801.550	42.73	-2.70	74.0	-31.27	Peak	74.00	100	Vertical	Pass
3	2924.769	42.70	-2.66	74.0	-31.30	Peak	359.00	100	Vertical	Pass
4	3914.771	44.42	0.87	74.0	-29.58	Peak	100.00	100	Vertical	Pass
5	4343.914	47.58	1.91	74.0	-26.42	Peak	127.00	100	Vertical	Pass
6	5962.759	46.32	3.79	74.0	-27.68	Peak	200.00	100	Vertical	Pass

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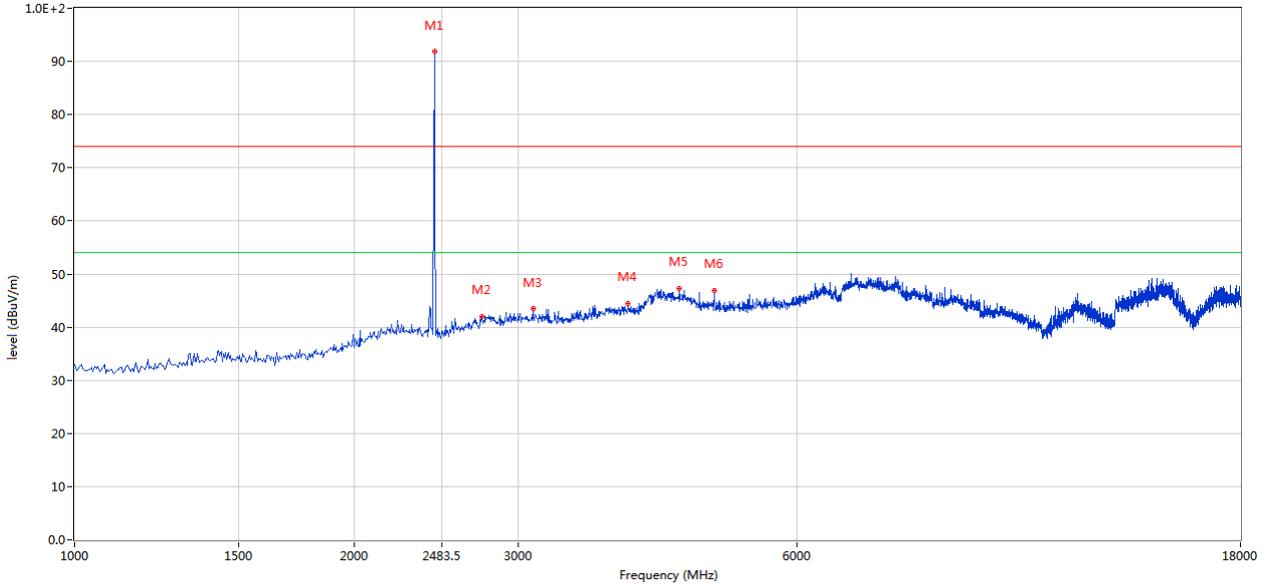
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Please refer to the following test plots for details: Middle Channel-2440MHz

**Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	91.88	-3.57	114.0	-22.12	Peak	42.00	100	Horizontal	N/A
2	2746.313	42.07	-2.84	74.0	-31.93	Peak	204.00	100	Horizontal	Pass
3	3115.971	43.41	-2.16	74.0	-30.59	Peak	57.00	100	Horizontal	Pass
4	3944.514	44.51	0.99	74.0	-29.49	Peak	103.00	100	Horizontal	Pass
5	4479.880	47.30	2.17	74.0	-26.70	Peak	235.00	100	Horizontal	Pass
6	4879.280	46.91	3.20	74.0	-27.09	Peak	42.00	100	Horizontal	Pass

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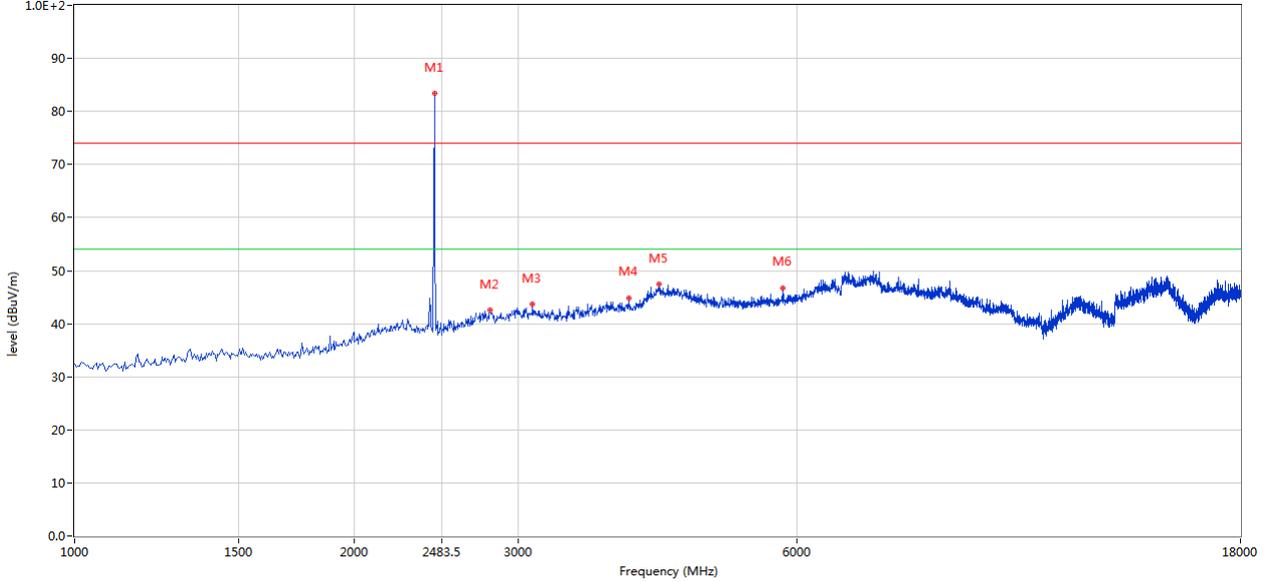
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**Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	83.39	-3.57	114.0	-30.61	Peak	330.00	100	Vertical	N/A
2	2801.550	42.59	-2.70	74.0	-31.41	Peak	360.00	100	Vertical	Pass
3	3111.722	43.66	-2.17	74.0	-30.34	Peak	115.00	100	Vertical	Pass
4	3948.763	44.78	1.00	74.0	-29.22	Peak	240.00	100	Vertical	Pass
5	4254.686	47.38	1.73	74.0	-26.62	Peak	346.00	100	Vertical	Pass
6	5792.802	46.74	3.83	74.0	-27.26	Peak	351.00	100	Vertical	Pass

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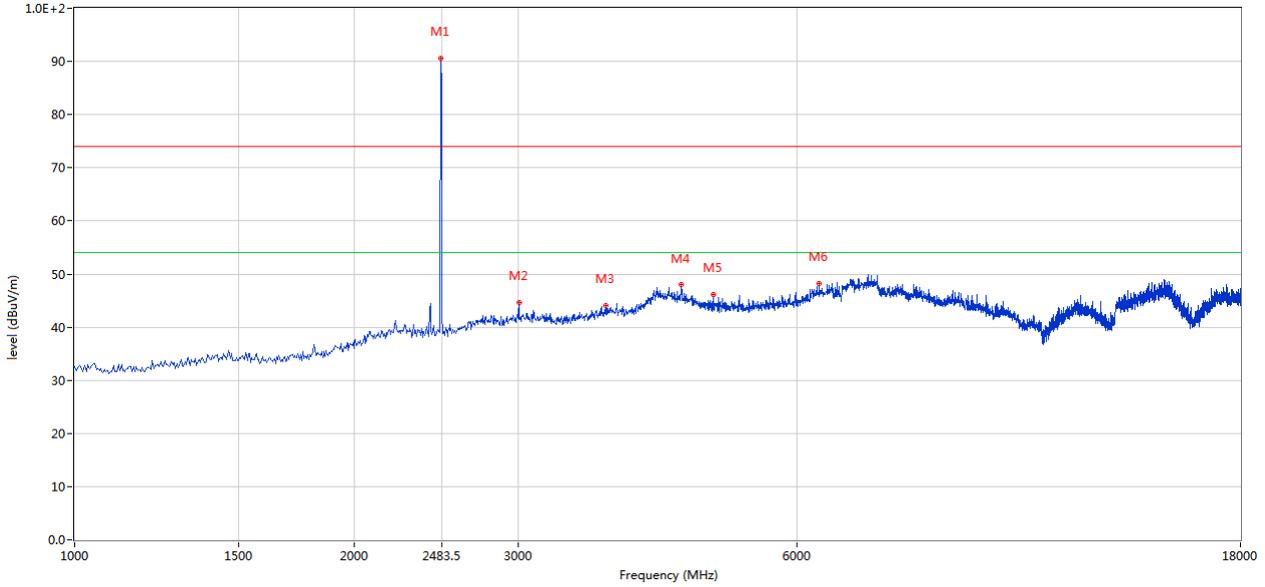
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Please refer to the following test plots for details: High Channel-2480MHz

**Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	90.63	-3.57	114.0	-23.37	Peak	46.00	100	Horizontal	N/A
2	3009.748	44.63	-2.60	74.0	-29.37	Peak	195.00	100	Horizontal	Pass
3	3727.818	44.00	-0.08	74.0	-30.00	Peak	20.00	100	Horizontal	Pass
4	4501.125	47.94	2.21	74.0	-26.06	Peak	82.00	100	Horizontal	Pass
5	4875.031	46.17	3.19	74.0	-27.83	Peak	306.00	100	Horizontal	Pass
6	6332.417	48.29	5.09	74.0	-25.71	Peak	170.00	100	Horizontal	Pass

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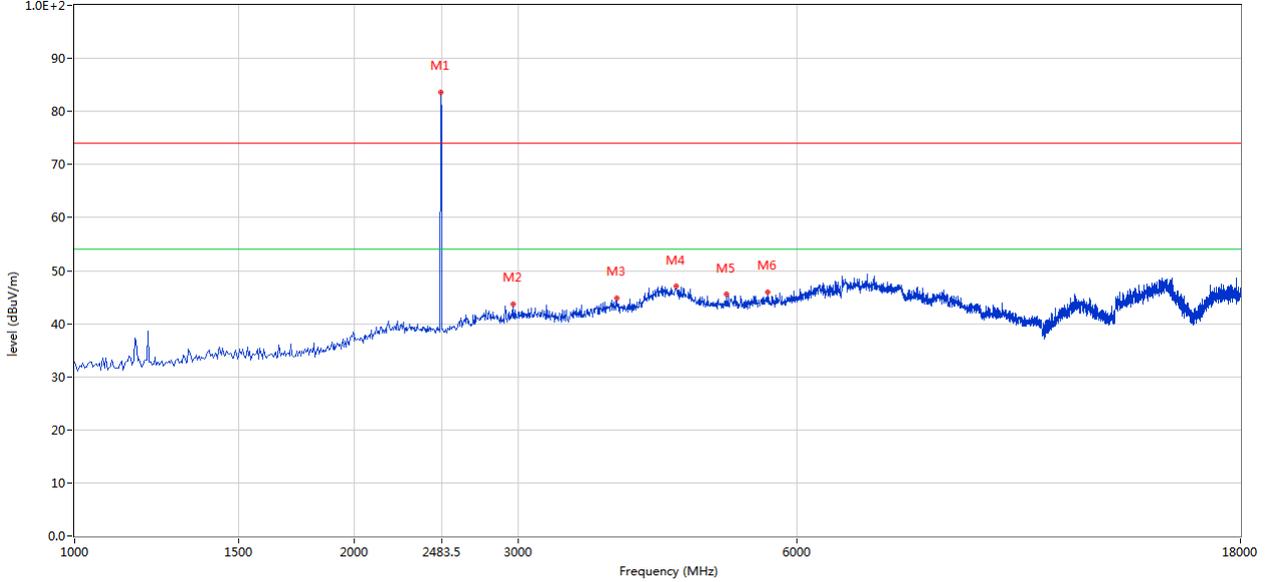
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**Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	83.68	-3.57	114.0	-30.32	Peak	326.00	100	Vertical	N/A
2	2963.009	43.73	-2.65	74.0	-30.27	Peak	180.00	100	Vertical	Pass
3	3834.041	44.85	0.48	74.0	-29.15	Peak	239.00	100	Vertical	Pass
4	4445.889	47.02	2.10	74.0	-26.98	Peak	358.00	100	Vertical	Pass
5	5036.491	45.57	3.58	74.0	-28.43	Peak	191.00	100	Vertical	Pass
6	5580.355	45.90	3.92	74.0	-28.10	Peak	99.00	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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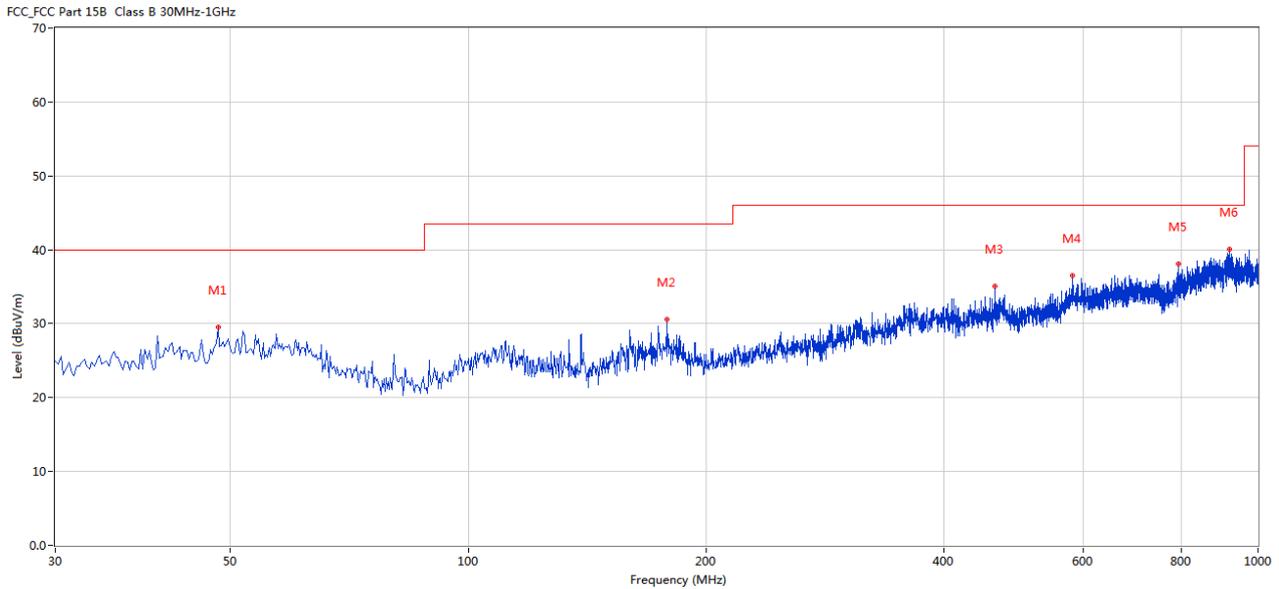


**B. General Radiated Emission Data**  
**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting  
 Test Channel: Middle (2440MHz)

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.183	29.55	-5.34	40.0	10.45	Peak	360.00	100	Horizontal	Pass
2	178.615	30.59	-8.13	40.0	9.41	Peak	360.00	100	Horizontal	Pass
3	464.936	35.04	-0.56	47.0	11.96	Peak	360.00	100	Horizontal	Pass
4	582.519	36.50	1.74	47.0	10.50	Peak	360.00	100	Horizontal	Pass
5	791.987	38.12	2.87	47.0	8.88	Peak	360.00	100	Horizontal	Pass
6	919.510	40.04	5.50	47.0	6.96	Peak	360.00	100	Horizontal	Pass

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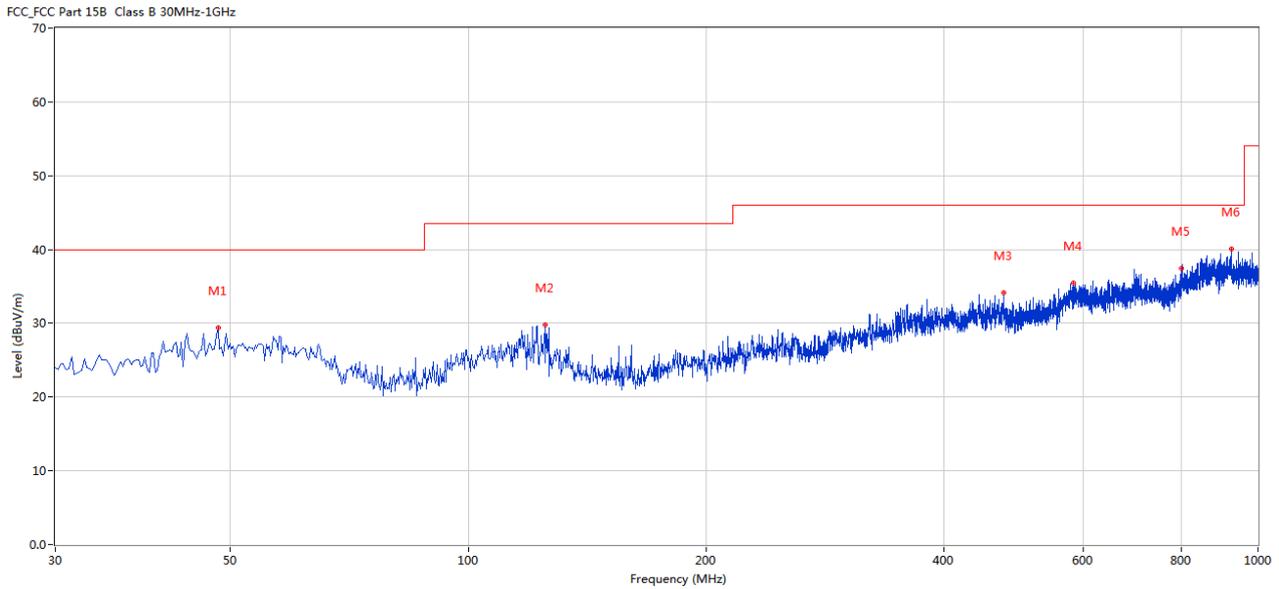


**Radiated Emission In Vertical (30MHz----1000MHz)**

Test Channel: Middle (2440MHz)  
 EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	48.183	29.38	-5.34	40.0	10.62	Peak	360.00	100	Vertical	Pass
2	125.036	29.74	-7.82	40.0	10.26	Peak	360.00	100	Vertical	Pass
3	476.816	34.15	-0.67	47.0	12.85	Peak	360.00	100	Vertical	Pass
4	583.489	35.46	1.66	47.0	11.54	Peak	360.00	100	Vertical	Pass
5	799.745	37.48	3.39	47.0	9.52	Peak	360.00	100	Vertical	Pass
6	924.359	40.09	5.31	47.0	6.91	Peak	360.00	100	Vertical	Pass

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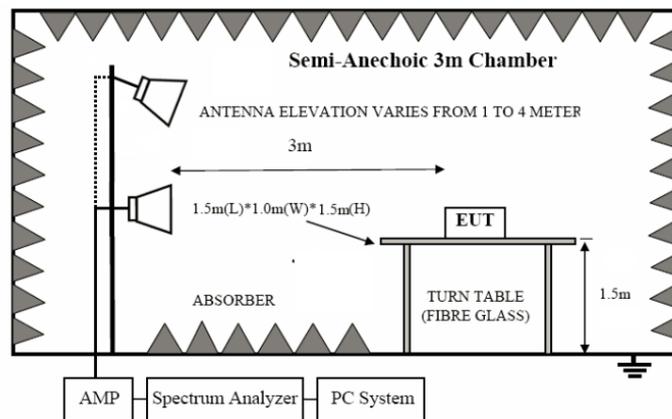


## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. 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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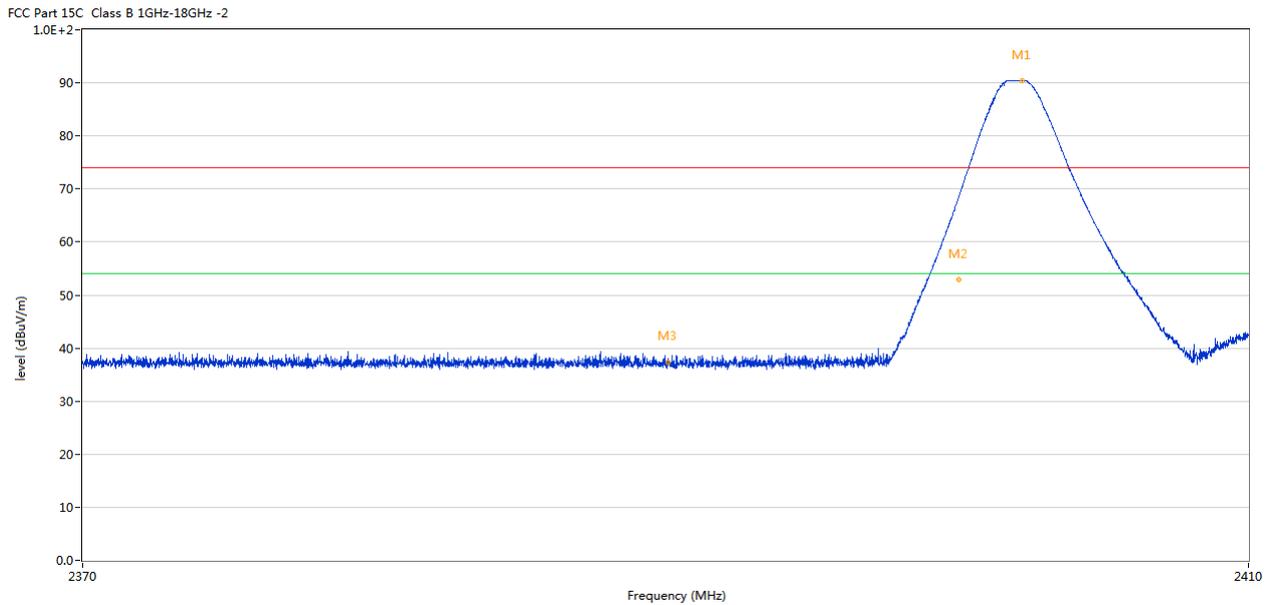
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**7.6 Test Result**

Product:	3 MODES MECHANICAL KEYBOARD	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



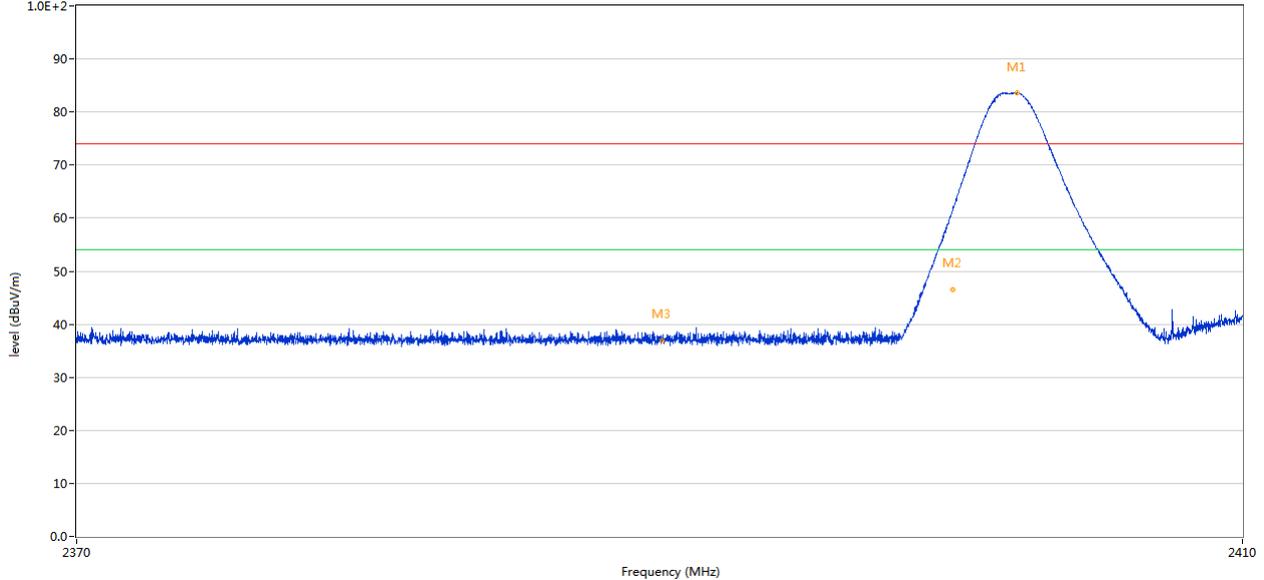
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.182	90.48	-3.57	74.0	16.48	Peak	44.00	100	Horizontal	N/A
2	2400.000	68.59	-3.57	74.0	-5.41	Peak	44.00	100	Horizontal	Pass
2**	2400.000	52.83	-3.57	54.0	-1.17	AV	44.00	100	Horizontal	Pass
3	2390.000	37.33	-3.53	74.0	-36.67	Peak	345.00	100	Horizontal	Pass

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Product:	3 MODES MECHANICAL KEYBOARD	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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 1.0E+2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.212	83.57	-3.57	74.0	9.57	Peak	330.00	100	Vertical	N/A
2	2400.000	61.60	-3.57	74.0	-12.40	Peak	330.00	100	Vertical	Pass
2**	2400.000	46.56	-3.57	54.0	-7.44	AV	330.00	100	Vertical	Pass
3	2390.000	36.90	-3.53	74.0	-37.10	Peak	166.00	100	Vertical	Pass

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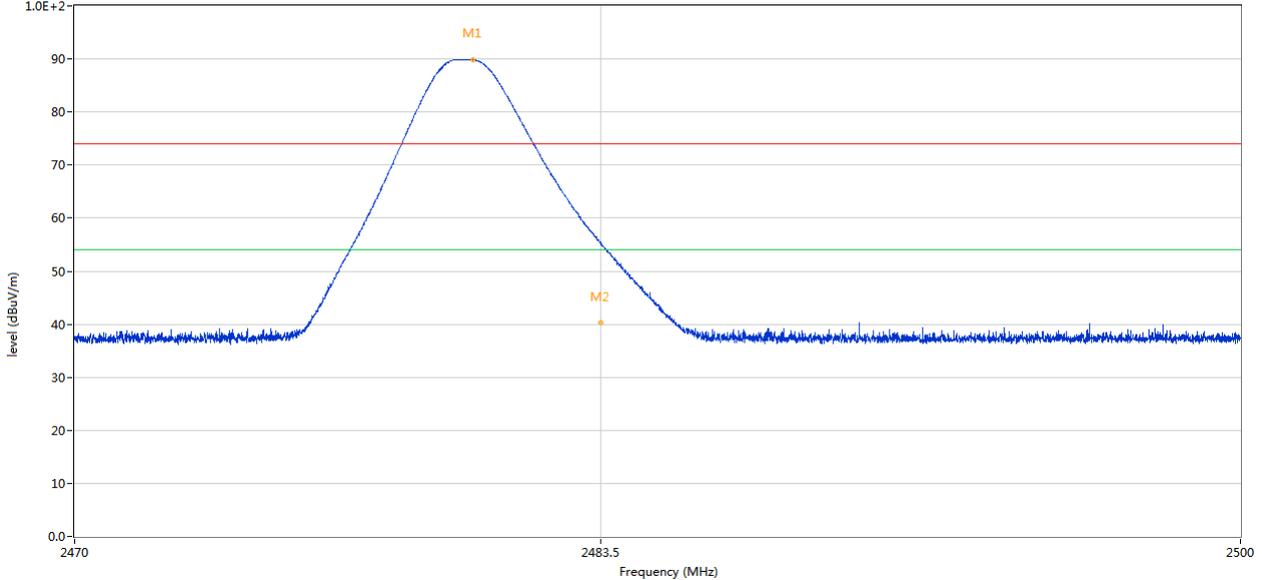
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Product:	3 MODES MECHANICAL KEYBOARD	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

FCC Part 15C Class B 1GHz-18GHz -2  
 1.0E+2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.197	89.83	-3.57	74.0	15.83	Peak	44.00	100	Horizontal	N/A
2	2483.500	55.09	-3.57	74.0	-18.91	Peak	44.00	100	Horizontal	Pass
2**	2483.500	40.25	-3.57	54.0	-13.75	AV	44.00	100	Horizontal	Pass

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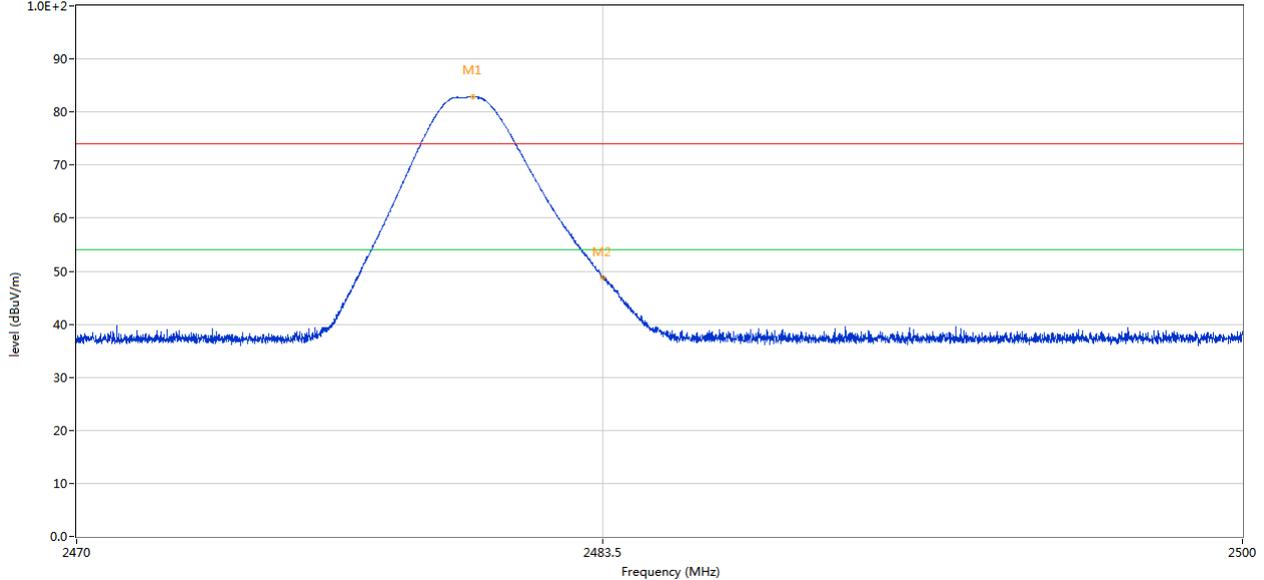
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Product:	3 MODES MECHANICAL KEYBOARD	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

FCC Part 15C Class B 1GHz-18GHz -2  
 1.0E+2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.167	82.89	-3.57	74.0	8.89	Peak	327.00	100	Vertical	N/A
2	2483.500	48.81	-3.57	74.0	-25.19	Peak	324.14	100	Vertical	Pass

Note: 1. The PK emission level less than the AV limit. No necessary to record the AV emission level.

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## 8.0 Antenna Requirement

### Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

This product has a PCB antenna with gain 2.08dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

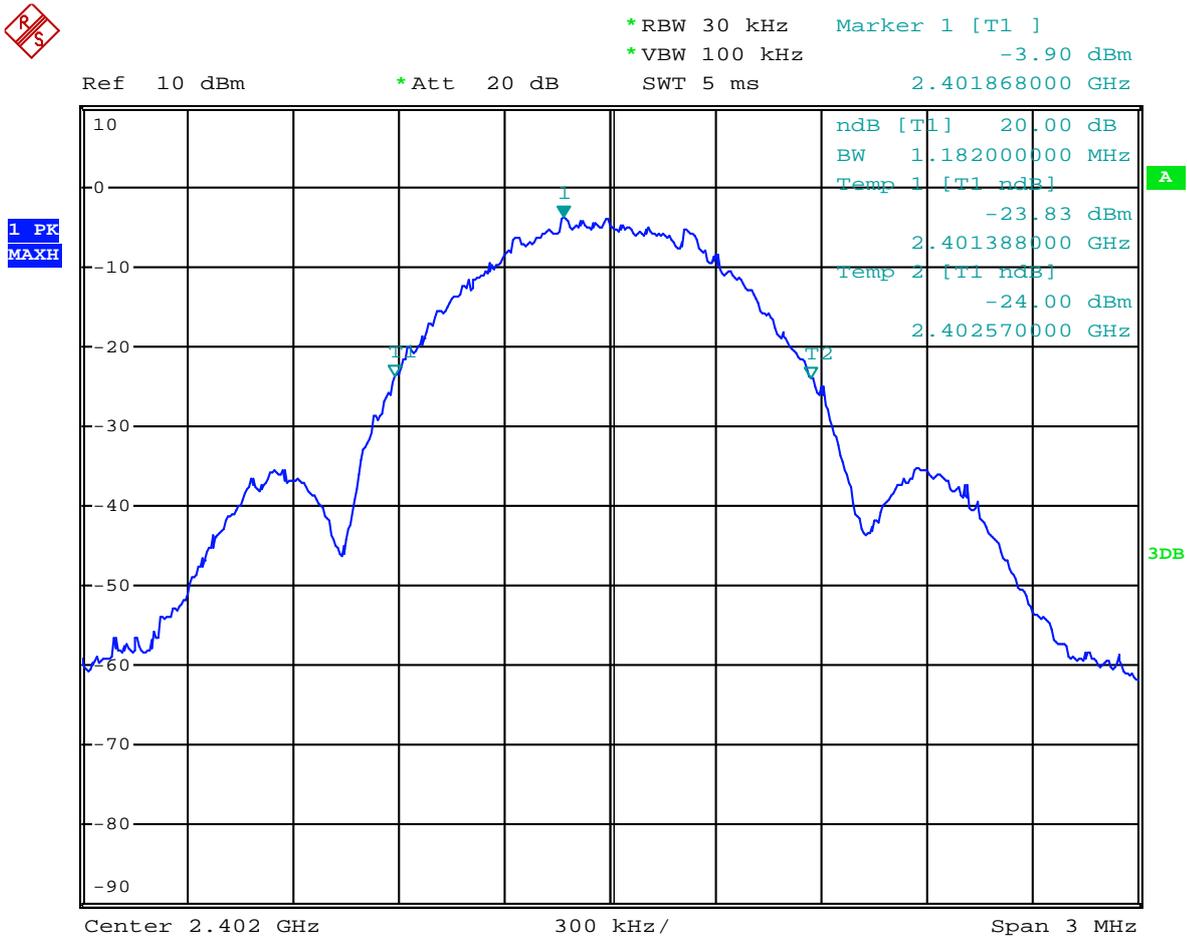
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9.0 20dB Bandwidth Measurement			
Product:	3 MODES MECHANICAL KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.182MHz	--	--

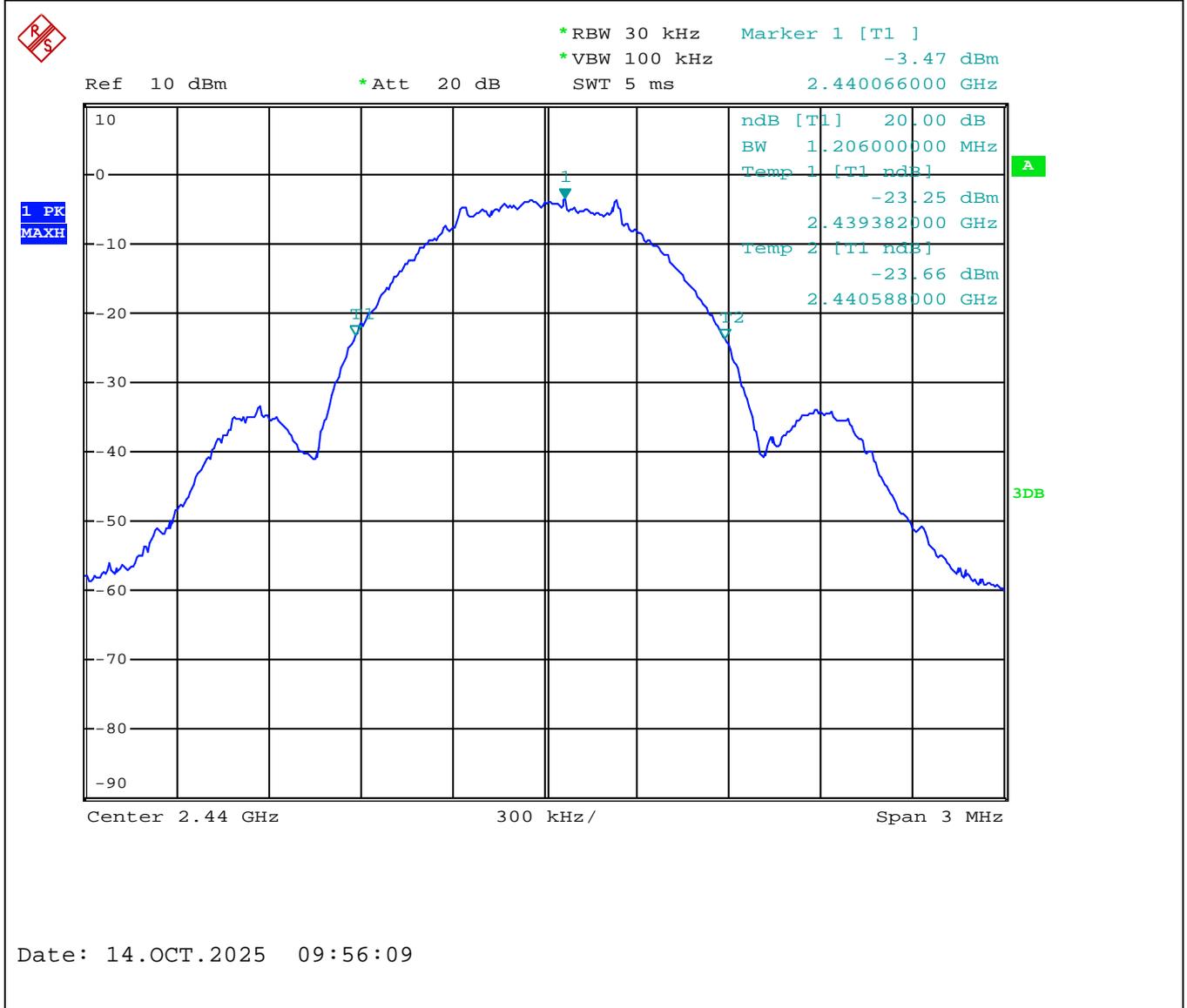


Date: 14.OCT.2025 09:41:02

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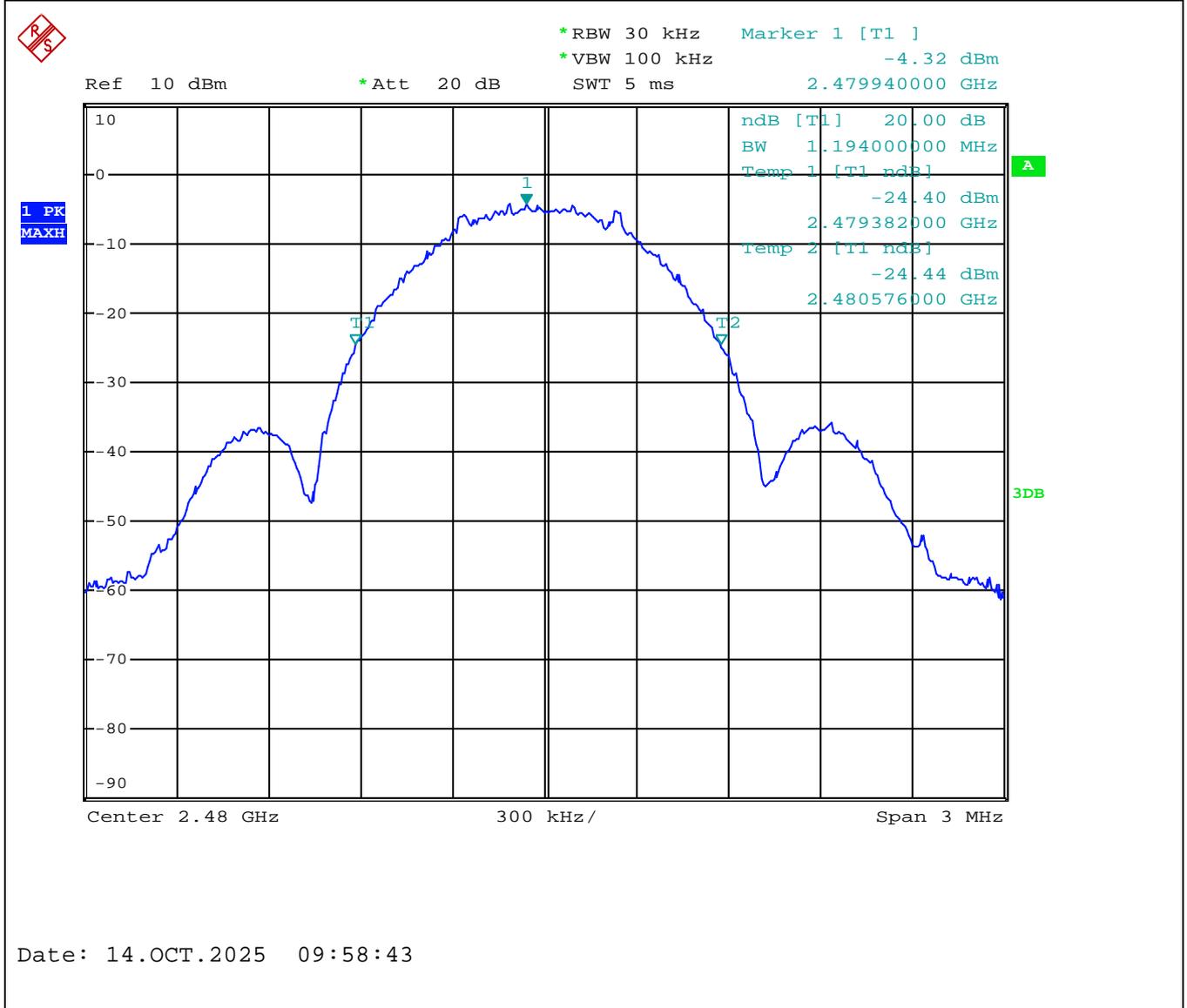
Product:	3 MODES MECHANICAL KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.206MHz	--	--



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Product:	3 MODES MECHANICAL KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.194MHz	--	--



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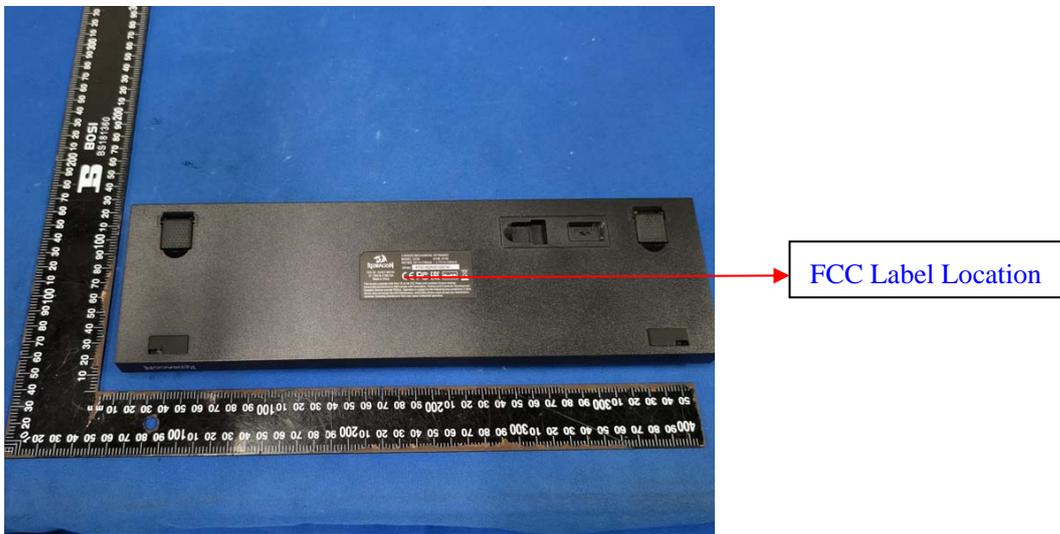
## 10.0 FCC ID Label

### FCC ID: TUVET-8613H

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



**Photographs – EUT**

Please refer test report TWN2507858-01E

**--End of the report--**

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