



Report No.: TW2503066-02E

Applicant: Eastern Times Technology Co.,Ltd

Product: 3-MODES 98 KEY GASKET HOTSWAPPABLE RGB MECHANICAL KEYBOARD

Model No.: K686SP-RGB-PRO, ET-7199, ET-7194

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

Terry Tang

Manager

Dated: June 12, 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.

### **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 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 98 KEY GASKET HOTSWAPPABLE RGB 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: K686SP-RGB-PRO  
Additional Model Name: ET-7199, ET-7194  
Rating: Input: DC5V, 500mA or DC3.7V, 120mA  
Battery: DC3.7V, 4000mAh Li-ion battery  
Hardware Version: 7194-D TX V1  
Software Version: 8012  
Serial No.: RDK686SP-RGB-PRO24120500877  
Operation Frequency: 2402-2480MHz  
Modulation Type: GFSK  
Number of Channels: 79  
Channel Separation: 1MHz  
Antenna Designation: PCB antenna with gain 2.34dBi maximum (Declared by the Manufacturer)

### 1.4 Submitted Sample: 2 Samples

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1.5 Test Duration

2025-03-04 to 2025-06-13

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

A handwritten signature in black ink that reads "Andy Xing".

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 EUT has been tested according 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
FCC Part 15.215(c)	20dB bandwidth	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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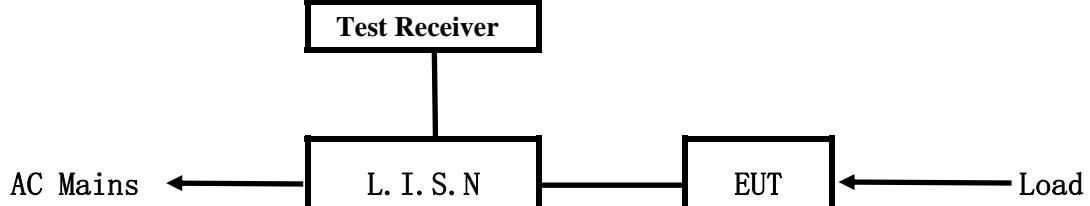
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## 5.0 Power Line Conducted Emission Test

### 5.1 Schematics of the test



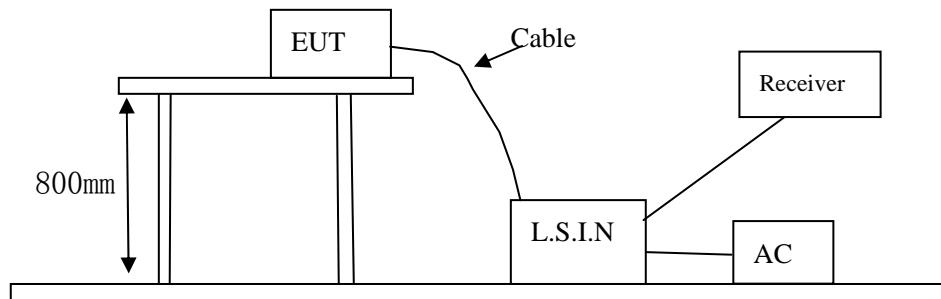
EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



### 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

#### A. EUT

Device	Manufacturer	Model	FCC ID
3-MODES 98 KEY GASKET HOTSWAPPABLE RGB MECHANICAL KEYBOARD	Eastern Times Technology Co.,Ltd	K686SP-RGB-PRO, ET-7199, ET-7194	TUVET-7194D

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	CDQ02ZM	Input: 100-240V~, 50/60Hz, 1.2A; Output: DC5V, 3A; DC9V, 3A; DC12V, 3A; DC15V, 3A; DC20V, 2.25A;

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow  
B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (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:

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

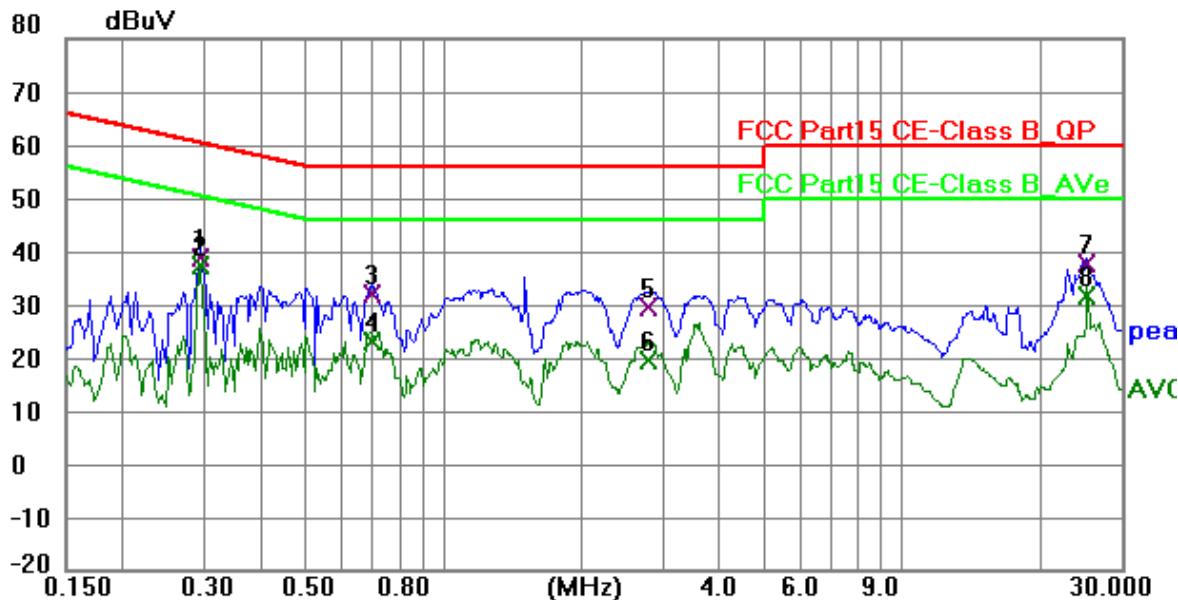
**EUT Operating Environment**

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

**EUT set Condition: Charging + 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	0.2943	29.02	9.76	38.78	60.40	-21.62	QP	P
2	0.2943	27.55	9.76	37.31	50.40	-13.09	AVG	P
3	0.6999	22.06	9.78	31.84	56.00	-24.16	QP	P
4	0.6999	13.12	9.78	22.90	46.00	-23.10	AVG	P
5	2.7864	19.76	9.83	29.59	56.00	-26.41	QP	P
6	2.7864	9.81	9.83	19.64	46.00	-26.36	AVG	P
7	25.2300	26.73	11.00	37.73	60.00	-22.27	QP	P
8	25.2300	20.56	11.00	31.56	50.00	-18.44	AVG	P

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

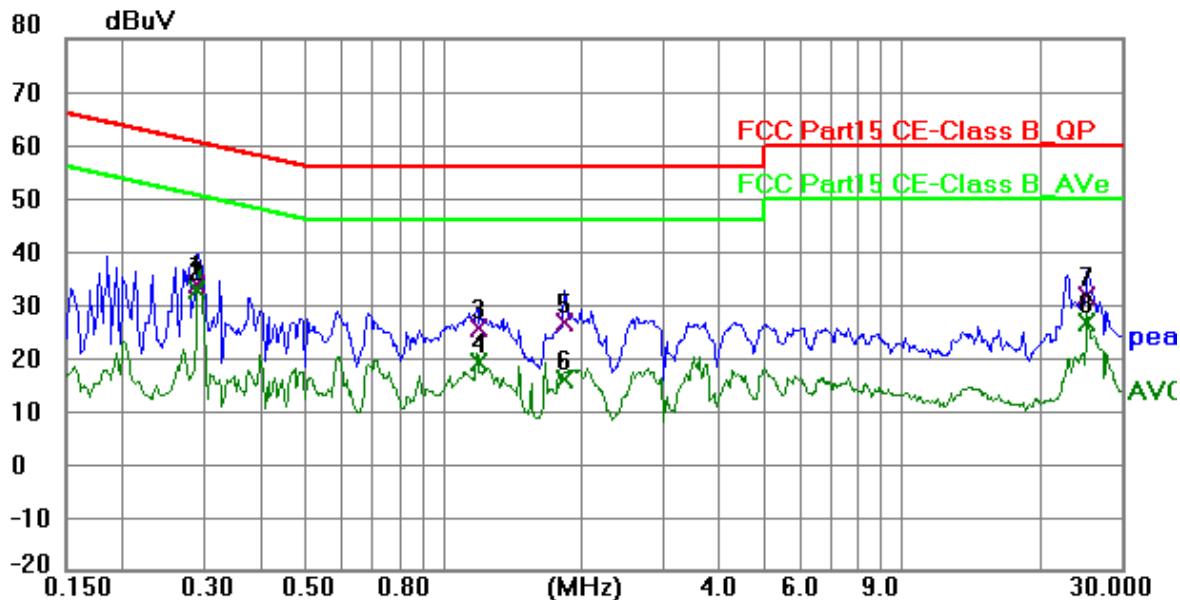
**EUT Operating Environment**

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

**EUT set Condition: Charging + 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	0.2904	24.13	9.76	33.89	60.51	-26.62	QP	P
2	0.2904	22.79	9.76	32.55	50.51	-17.96	AVG	P
3	1.1835	15.64	9.79	25.43	56.00	-30.57	QP	P
4	1.1835	9.42	9.79	19.21	46.00	-26.79	AVG	P
5	1.8348	16.72	9.80	26.52	56.00	-29.48	QP	P
6	1.8348	5.99	9.80	15.79	46.00	-30.21	AVG	P
7	25.2261	20.54	11.00	31.54	60.00	-28.46	QP	P
8	25.2261	15.59	11.00	26.59	50.00	-23.41	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 C63.10-2013. 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 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150Khz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

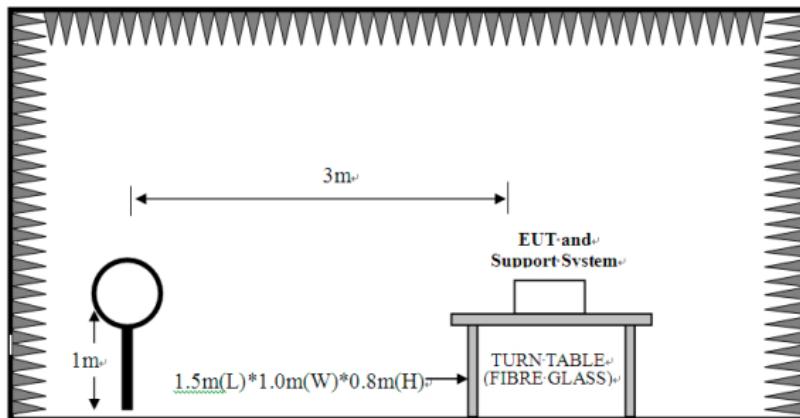
(Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz).

Measurements were made at 3 meters.

- (4) The antenna height is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



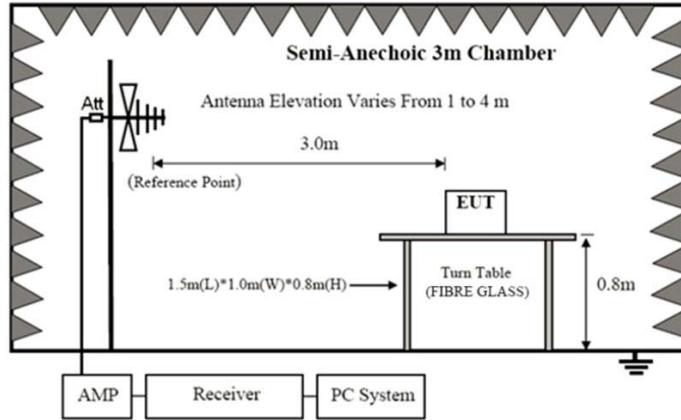
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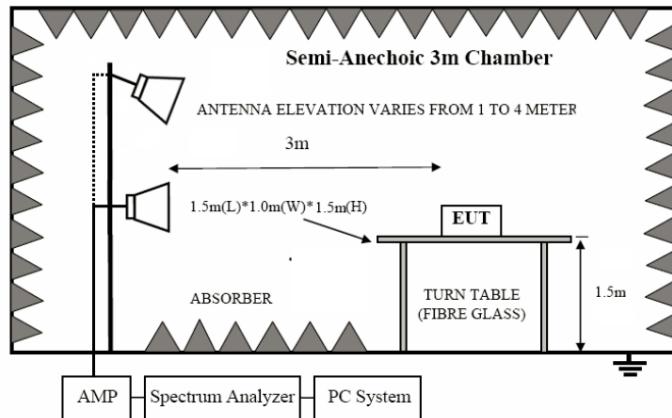
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



## 6.2 Configuration of the EUT

Same as section 5.3 of this report

## 6.3 EUT Operating Condition

Same as section 5.4 of this report.

## 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

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Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
	<b>mV/m</b>	<b>dBuV/m</b>		<b>uV/m</b>	<b>dBuV/m</b>	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

1. RF Field Strength (dBuV) =  $20 \log_{10} \text{RF Voltage (uV)}$
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 $\mu$ V/m)
0.009-0.490	3	$20\log_{10}(2400/F(\text{kHz})) + 40\log_{10}(300/3)$
0.490-1.705	3	$20\log_{10}(24000/F(\text{kHz})) + 40\log_{10}(30/3)$
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) =  $20 \log_{10} \text{RF Voltage (uV)}$
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. Battery fully charged was used during the test.

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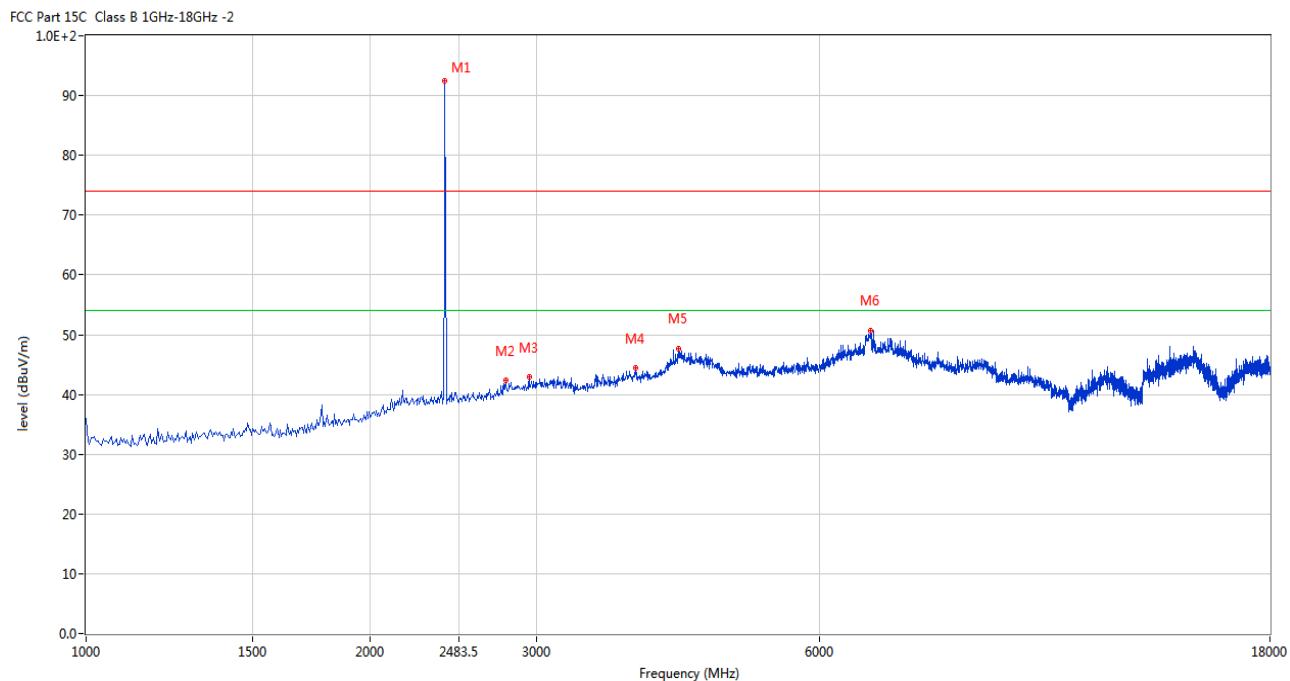


## 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	92.56	-3.57	114.0	-21.44	Peak	226.00	100	Horizontal	Pass
2	2784.554	42.29	-2.74	74.0	-31.71	Peak	105.00	100	Horizontal	Pass
3	2950.262	42.96	-2.66	74.0	-31.04	Peak	359.00	100	Horizontal	Pass
4	3829.793	44.43	0.46	74.0	-29.57	Peak	258.00	100	Horizontal	Pass
5	4246.188	47.68	1.71	74.0	-26.32	Peak	258.00	100	Horizontal	Pass
6	6795.551	50.59	7.09	74.0	-23.41	Peak	295.00	100	Horizontal	Pass

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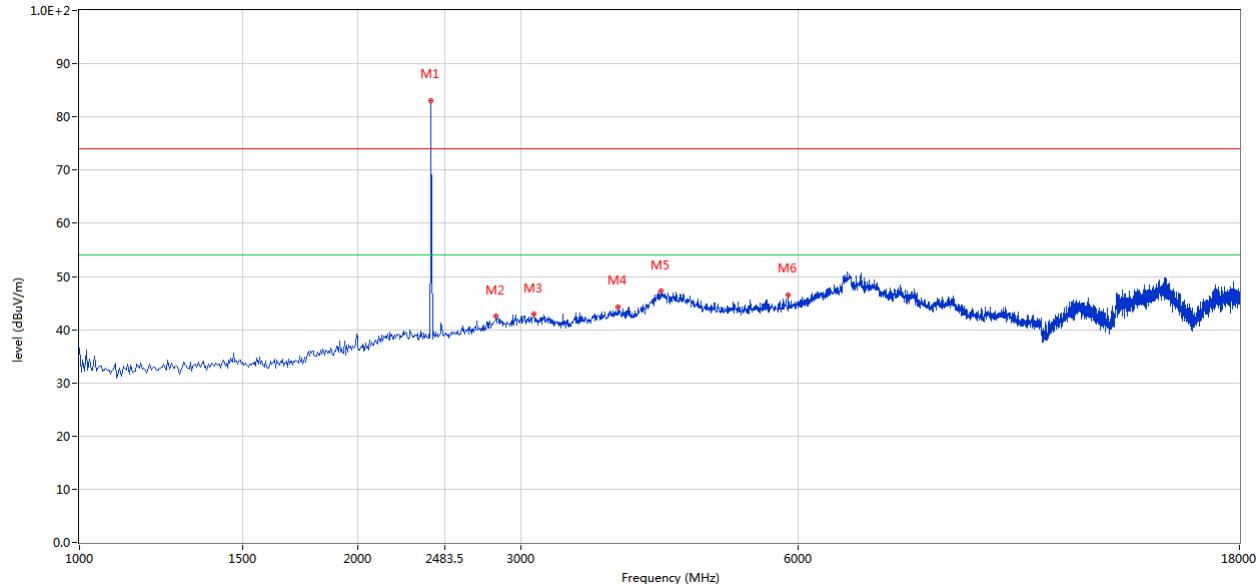
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## Vertical

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	82.99	-3.57	114.0	-31.01	Peak	11.00	100	Vertical	Pass
2	2822.794	42.63	-2.69	74.0	-31.37	Peak	77.00	100	Vertical	Pass
3	3103.224	42.98	-2.19	74.0	-31.02	Peak	360.00	100	Vertical	Pass
4	3829.793	44.29	0.46	74.0	-29.71	Peak	61.00	100	Vertical	Pass
5	4263.184	47.19	1.75	74.0	-26.81	Peak	328.00	100	Vertical	Pass
6	5848.038	46.52	3.82	74.0	-27.48	Peak	303.00	100	Vertical	Pass

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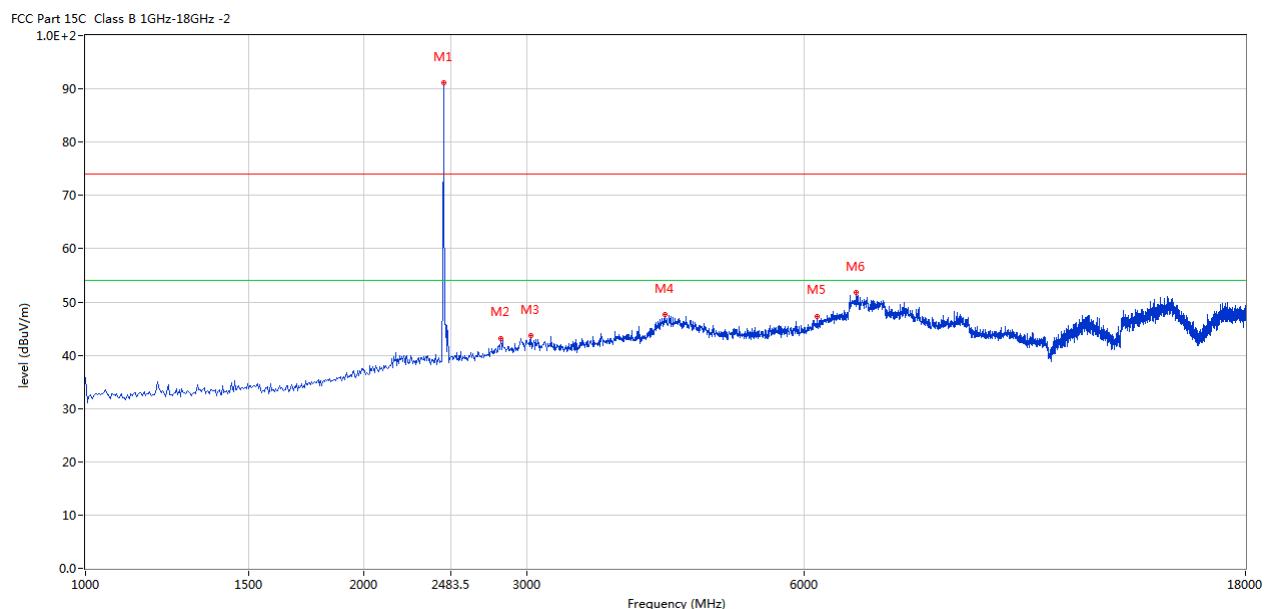
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Please refer to the following test plots for details: Middle Channel-2441MHz

### Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	91.14	-3.57	114.0	-22.86	Peak	211.00	100	Horizontal	Pass
2	2814.296	43.04	-2.69	74.0	-30.96	Peak	0.00	100	Horizontal	Pass
3	3035.241	43.68	-2.48	74.0	-30.32	Peak	295.00	100	Horizontal	Pass
4	4237.691	47.63	1.69	74.0	-26.37	Peak	280.00	100	Horizontal	Pass
5	6196.451	47.18	4.55	74.0	-26.82	Peak	243.00	100	Horizontal	Pass
6	6829.543	51.80	7.24	74.0	-22.20	Peak	86.00	100	Horizontal	Pass

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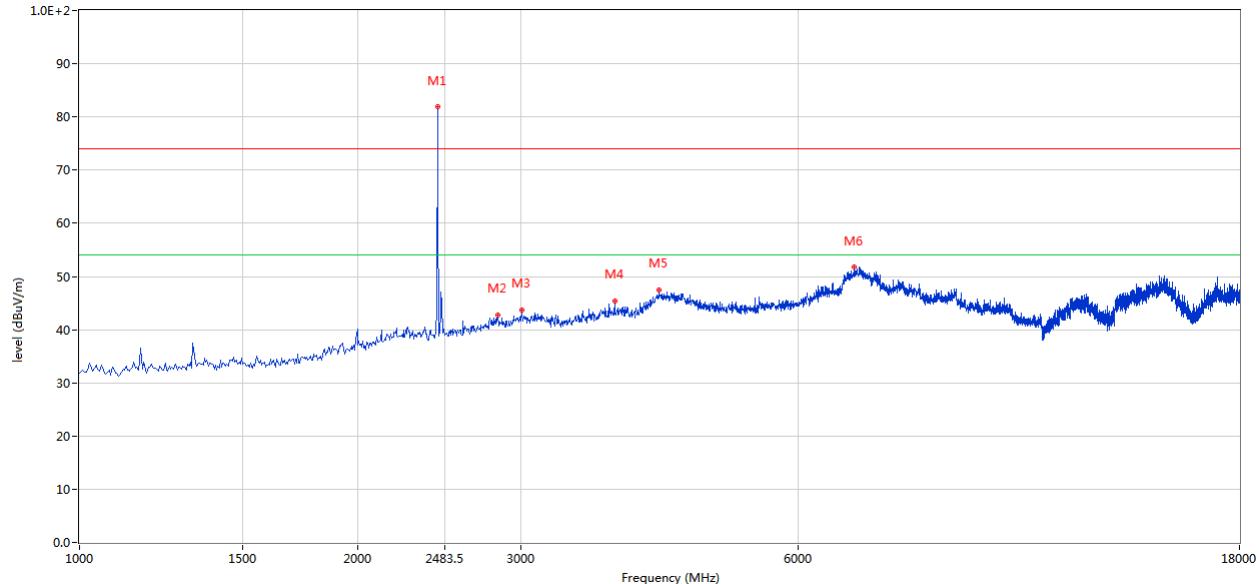
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## Vertical

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	2441	81.85	-3.57	114.0	-32.15	Peak	248.00	100	Vertical	Pass
2	2835.541	42.83	-2.69	74.0	-31.17	Peak	291.00	100	Vertical	Pass
3	3009.748	43.63	-2.60	74.0	-30.37	Peak	43.00	100	Vertical	Pass
4	3795.801	45.35	0.29	74.0	-28.65	Peak	138.00	100	Vertical	Pass
5	4237.691	47.48	1.69	74.0	-26.52	Peak	321.00	100	Vertical	Pass
6	6897.526	51.74	7.55	74.0	-22.26	Peak	116.00	100	Vertical	Pass

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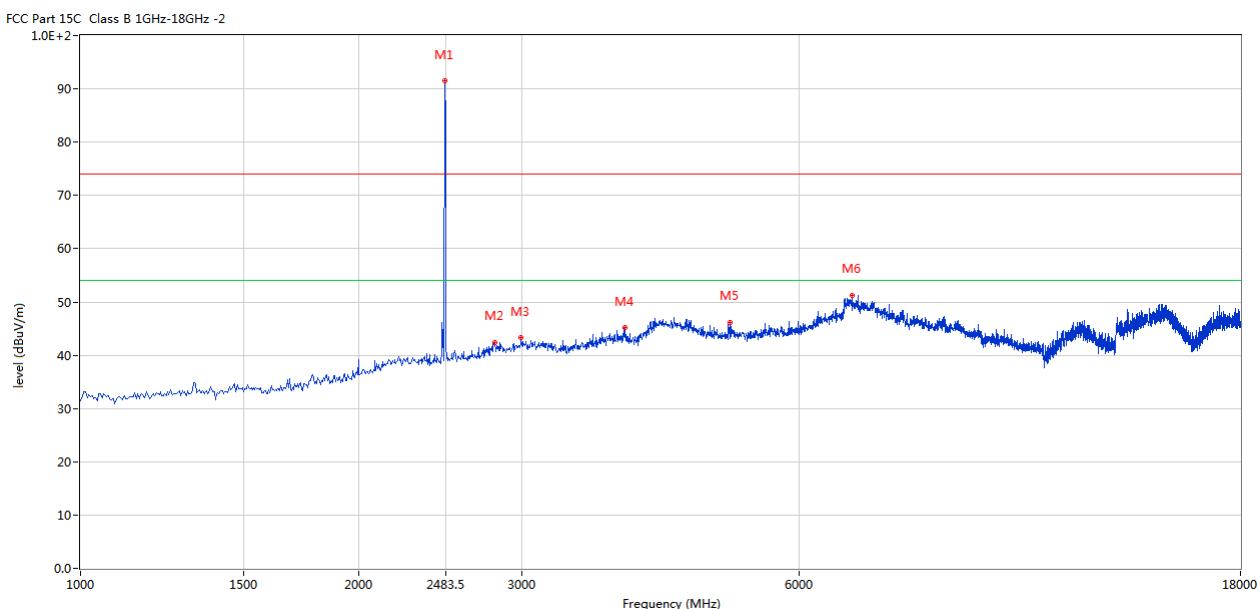
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Please refer to the following test plots for details: High Channel-2480MHz

### Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	91.51	-3.57	114.0	-22.49	Peak	49.00	100	Horizontal	Pass
2	2810.047	42.30	-2.69	74.0	-31.70	Peak	131.00	100	Horizontal	Pass
3	2997.001	43.29	-2.64	74.0	-30.71	Peak	90.00	100	Horizontal	Pass
4	3885.029	45.23	0.74	74.0	-28.77	Peak	11.00	100	Horizontal	Pass
5	5040.740	46.22	3.60	74.0	-27.78	Peak	178.00	100	Horizontal	Pass
6	6838.040	51.18	7.28	74.0	-22.82	Peak	115.00	100	Horizontal	Pass

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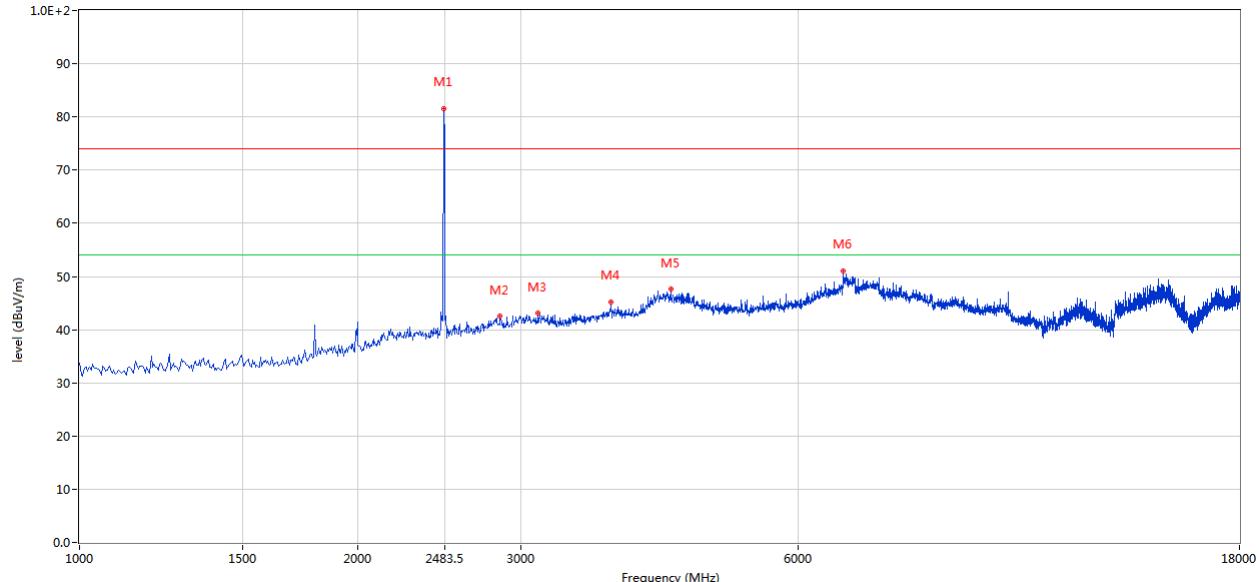
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## Vertical

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	81.62	-3.57	114.0	-32.38	Peak	245.00	100	Vertical	Pass
2	2852.537	42.52	-2.68	74.0	-31.48	Peak	296.00	100	Vertical	Pass
3	3137.216	43.09	-2.11	74.0	-30.91	Peak	55.00	100	Vertical	Pass
4	3761.810	45.28	0.11	74.0	-28.72	Peak	200.00	100	Vertical	Pass
5	4360.910	47.56	1.94	74.0	-26.44	Peak	70.00	100	Vertical	Pass
6	6706.323	50.98	6.69	74.0	-23.02	Peak	360.00	100	Vertical	Pass

Note:

- (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier
- (2) Margin=Emission-Limits
- (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- (4) For test purpose, keep EUT continuous transmitting
- (5) For emission above 18GHz and Below 30MHz, It is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
- (6) the measured PK value less than the AV limit.

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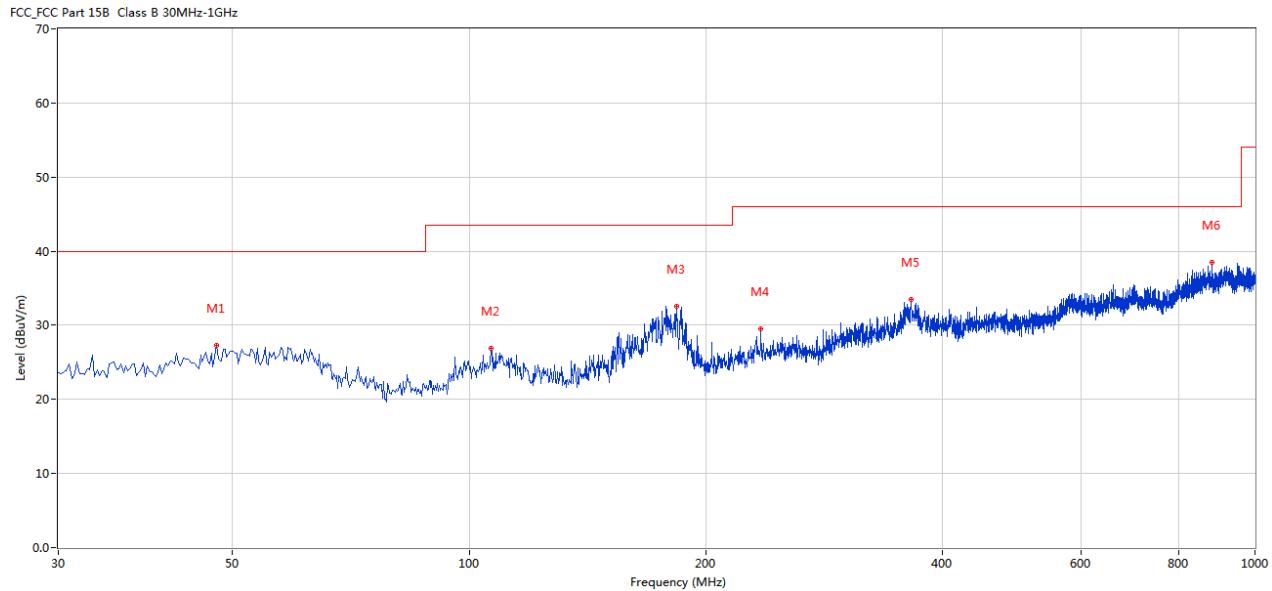
## B. General Radiated Emission Data

### Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.698	27.27	-5.47	40.0	12.73	Peak	322.00	100	Horizontal	Pass
2	106.611	26.85	-6.14	43.5	16.65	Peak	150.00	100	Horizontal	Pass
3	183.464	32.59	-7.33	43.5	10.91	Peak	245.00	100	Horizontal	Pass
4	235.104	29.53	-5.31	46.0	16.47	Peak	348.00	100	Horizontal	Pass
5	365.536	33.48	-1.71	46.0	12.52	Peak	341.00	100	Horizontal	Pass
6	881.690	38.50	5.02	46.0	7.50	Peak	348.00	100	Horizontal	Pass

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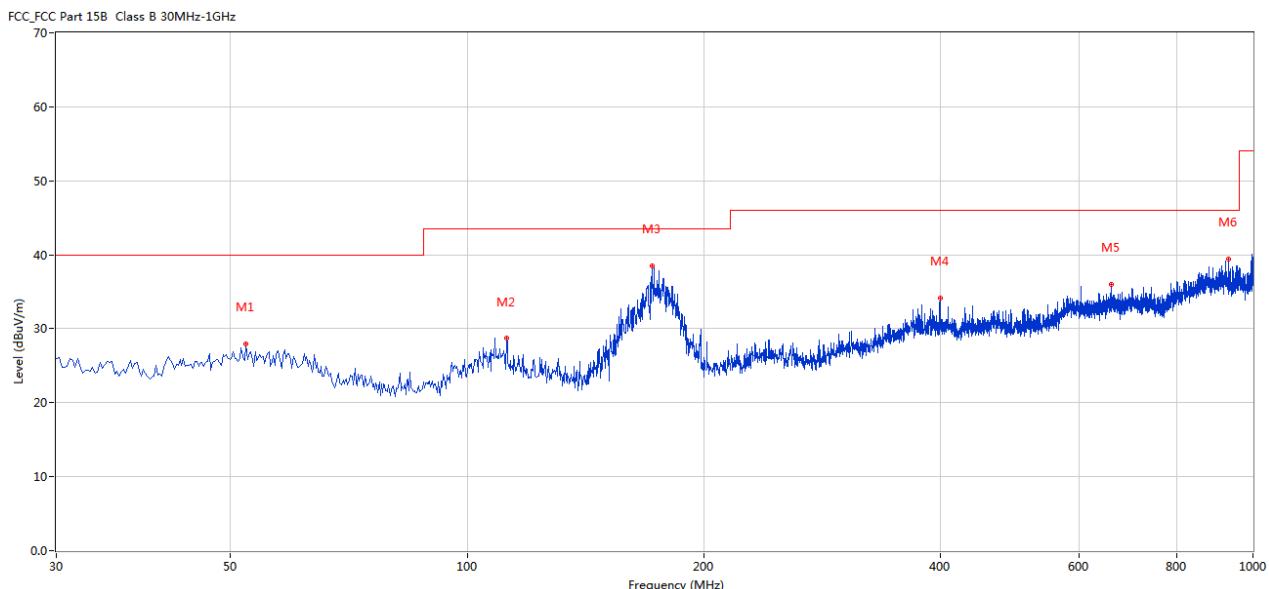


### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.304	27.91	-4.88	40.0	12.09	Peak	340.00	100	Vertical	Pass
2	112.187	28.68	-6.18	43.5	14.82	Peak	248.00	100	Vertical	Pass
3	171.827	38.45	-8.71	43.5	5.05	Peak	240.00	100	Vertical	Pass
4	399.720	34.15	-1.68	46.0	11.85	Peak	282.00	100	Vertical	Pass
5	660.827	36.01	1.96	46.0	9.99	Peak	147.00	100	Vertical	Pass
6	932.117	39.47	4.94	46.0	6.53	Peak	301.00	100	Vertical	Pass

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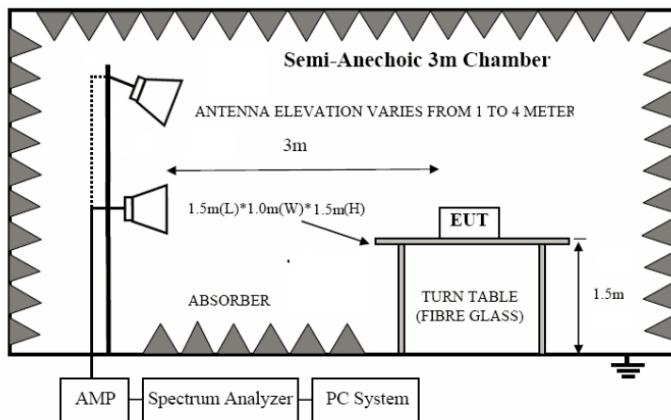


## 7. Band Edge

### 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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## 7.6 Test Result

Product:	3-MODES 98 KEY GASKET HOTSWAPPABLE RGB 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 										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.832	90.57	-3.57	74.0	16.57	Peak	55.00	100	Horizontal	N/A
2	2400.000	68.59	-3.57	74.0	-5.41	Peak	16.11	100	Horizontal	Pass
2**	2400.000	52.90	-3.57	54.0	-1.10	AV	16.11	100	Horizontal	Pass
3	2390.000	37.08	-3.53	74.0	-36.92	Peak	266.50	100	Horizontal	Pass

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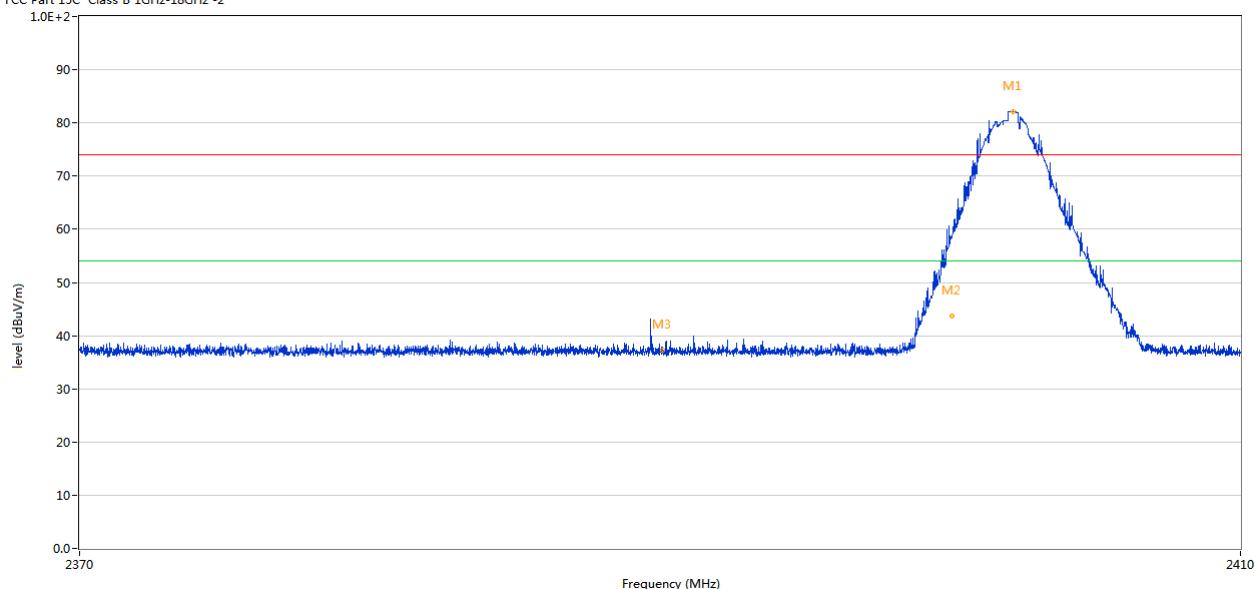
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Product:	3-MODES 98 KEY GASKET HOTSWAPPABLE RGB MECHANICAL KEYBOARD	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.122	82.15	-3.57	74.0	8.15	Peak	258.00	100	Vertical	N/A
2	2400.000	58.58	-3.57	74.0	-15.42	Peak	258.00	100	Vertical	Pass
2**	2400.000	43.67	-3.57	54.0	-10.33	AV	258.00	100	Vertical	Pass
3	2390.000	37.28	-3.53	74.0	-36.72	Peak	174.50	100	Vertical	Pass

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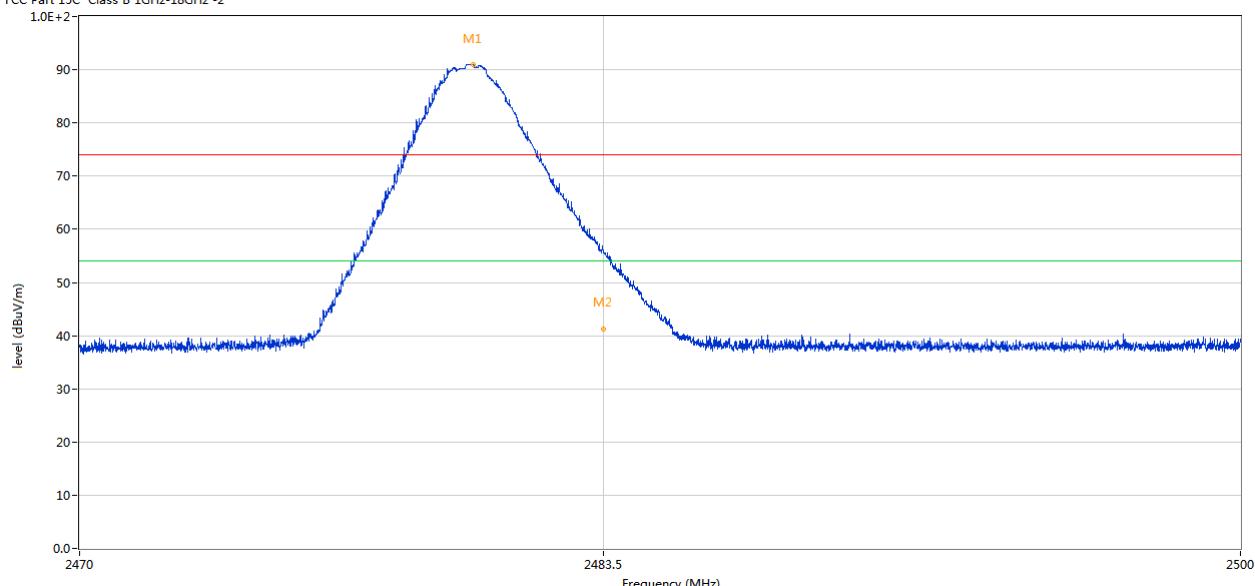
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Product:	3-MODES 98 KEY GASKET HOTSWAPPABLE RGB MECHANICAL KEYBOARD	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.130	91.00	-3.57	74.0	17.00	Peak	51.00	100	Horizontal	N/A
2	2483.500	55.55	-3.57	74.0	-18.45	Peak	128.14	100	Horizontal	Pass
2**	2483.500	41.21	-3.57	54.0	-12.79	AV	128.14	100	Horizontal	Pass

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Product:	3-MODES 98 KEY GASKET HOTSWAPPABLE RGB 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 										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.227	80.95	-3.57	74.0	6.95	Peak	252.00	100	Vertical	N/A
2	2483.500	46.42	-3.57	74.0	-27.58	Peak	252.00	100	Vertical	Pass

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

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

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## 8.0 Antenna Requirement

### Applicable Standard

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

This product has a PCB antenna with gain 2.34dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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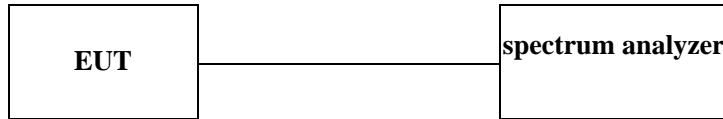
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## 9.0 20dB Bandwidth Measurement

### Test Configuration



### Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30kHz RBW and 100kHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

### Limit

N/A

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

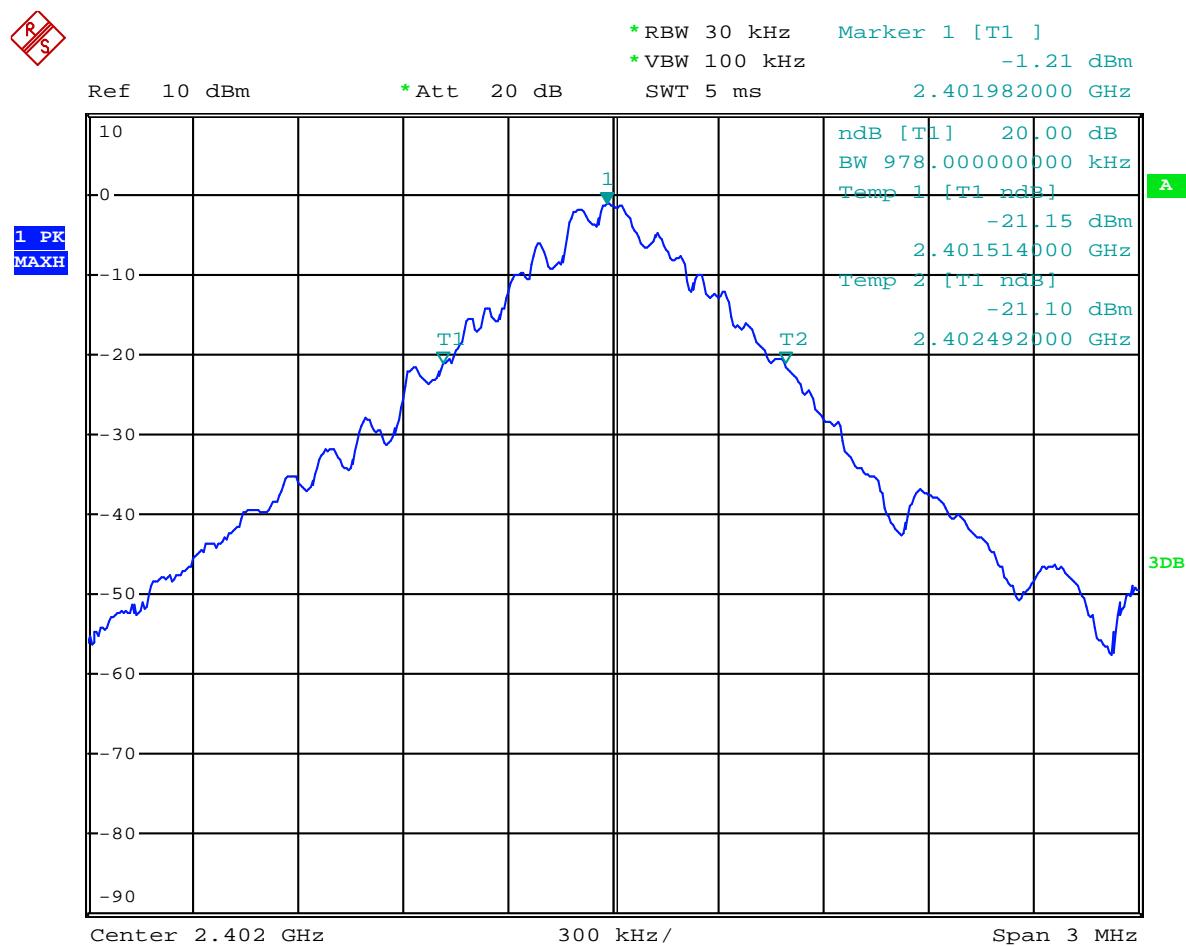
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## Test Result

Product:	3-MODES 98 KEY GASKET HOTSWAPPABLE RGB 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	978kHz	--	--



Date: 12.JUN.2025 22:16:43

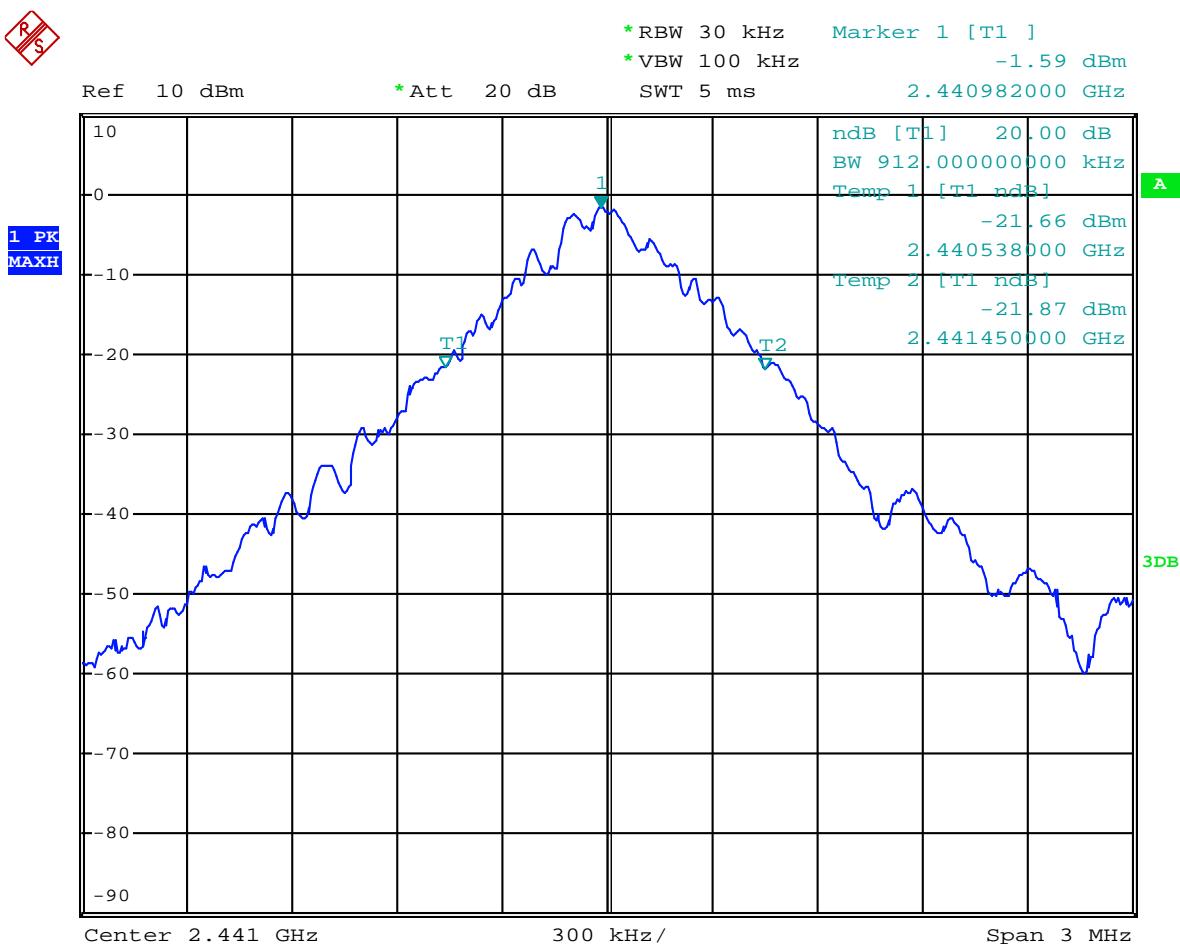
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Product:	3-MODES 98 KEY GASKET HOTSWAPPABLE RGB MECHANICAL KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	912kHz	--	--



Date: 12.JUN.2025 22:22:22

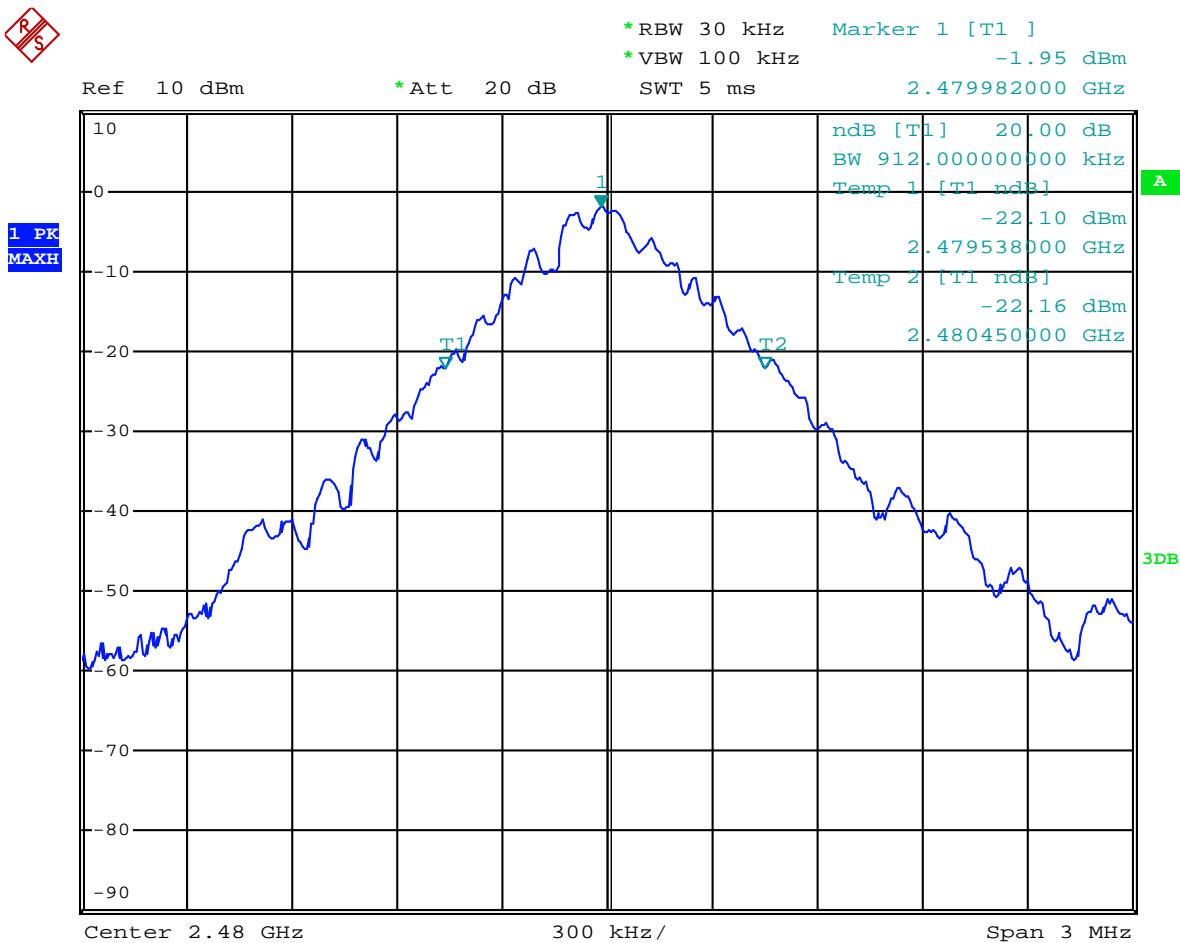
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Product:	3-MODES 98 KEY GASKET HOTSWAPPABLE RGB MECHANICAL KEYBOARD	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	912kHz	--	--



Date: 12.JUN.2025 22:22:56

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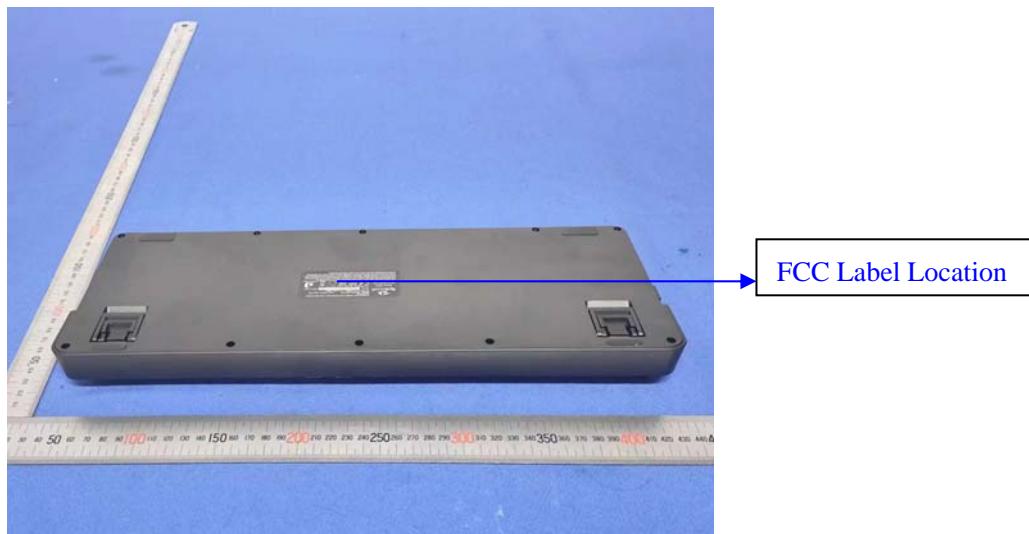
## 10.0 FCC ID Label

**FCC ID: TUVET-7194D**

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



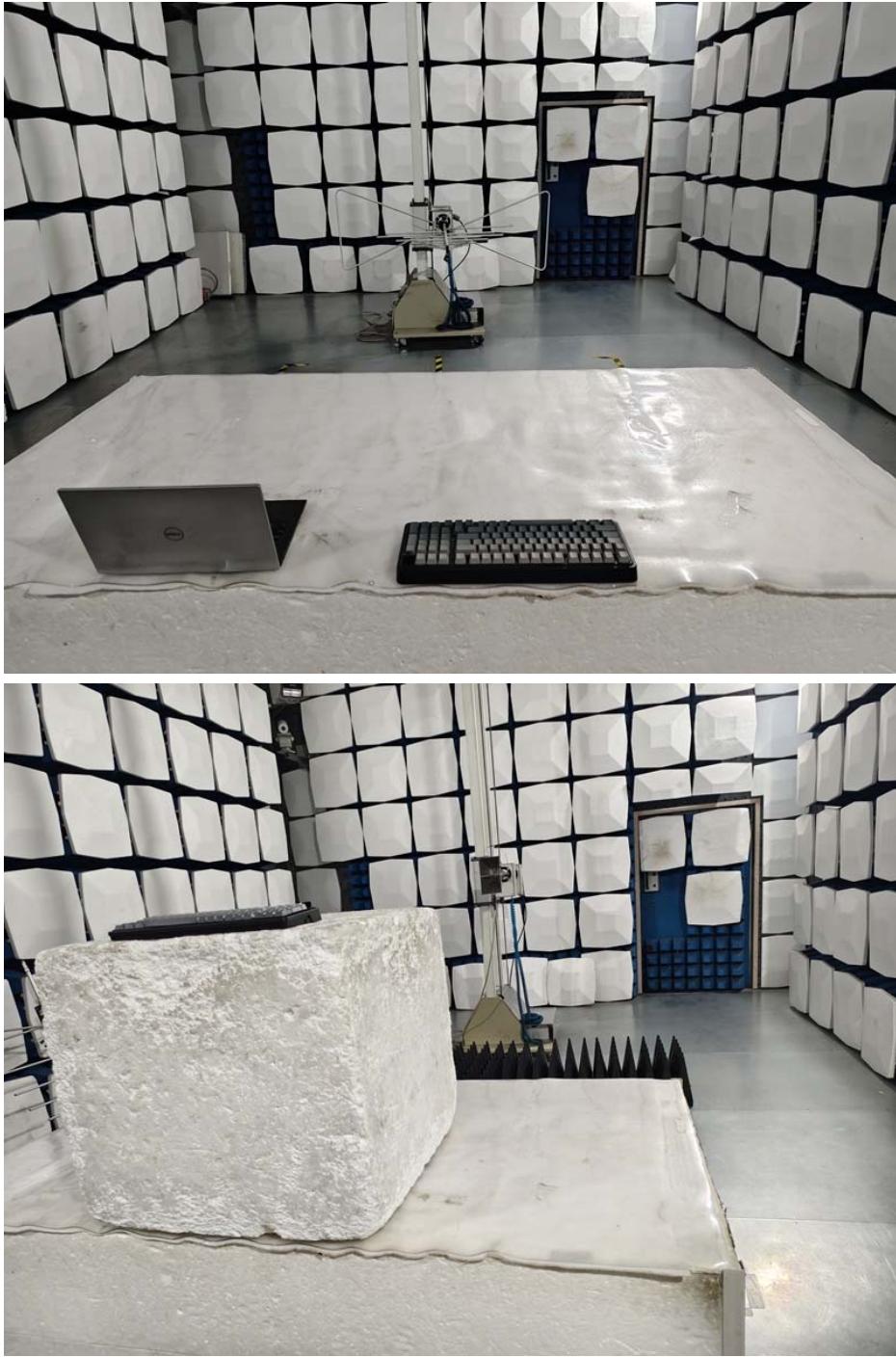
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Radiated emission test view



## 11.2 Photographs – EUT

Please refer test report TW2503066-01E

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

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