TEST REPORT

Report No.:	TW2411111-01E
Applicant:	Eastern Times Technology Co.,Ltd
Product:	REDRAGON SCISSORS MECHANISM SLIM WIRELESS KEYBOARD
Model No.:	BK-7111, BK-7114WG
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: November 18, 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

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

Test Report Conclusion

Content

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:	REDRAGON SCISSORS MECHANISM SLIM WIRELESS 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:	BK-7111
Additional Model Name	BK-7114WG
Rating:	BK-7114WG: DC5V, 3.7mA; BK-7111: DC3V, 4.7mA
Battery	BK-7111: DC3V, 2pcs AAA batteries; BK-7114WG: DC3.7V, 400mAh Li-ion battery
Modulation Type:	GFSK
Operation Frequency:	2403-2480MHz
Channel List (Unit: MHz):	2403, 2426, 2441, 2463, 2407, 2422, 2445, 2466, 2414, 2436, 2459, 2473, 2419, 2439, 2453, 2480
Hardware Version:	DD225B
Software Version:	7114-A TX V1
Serial No.:	BK-7111: RDBK-711124070402503 BK-7114WG: RDBK-7114GB24063001155

Antenna Designation PCB antenna with gain -1.66dBi Max (Get from the antenna specification)

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2024-11-13 to 2024-11-18

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

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

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

3.2 Test Standards

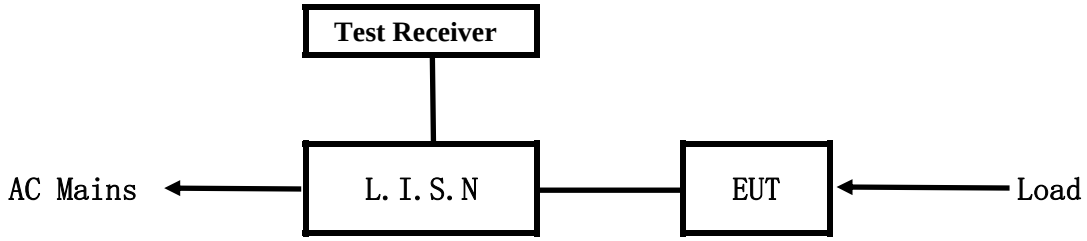
FCC Part 15 Subpart C, Paragraph 15.249 , ANSI C63.4 :2014 and ANSI C63.10 :2013

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

5. Power Line Conducted Emission Test

5.1 Schematics of the test



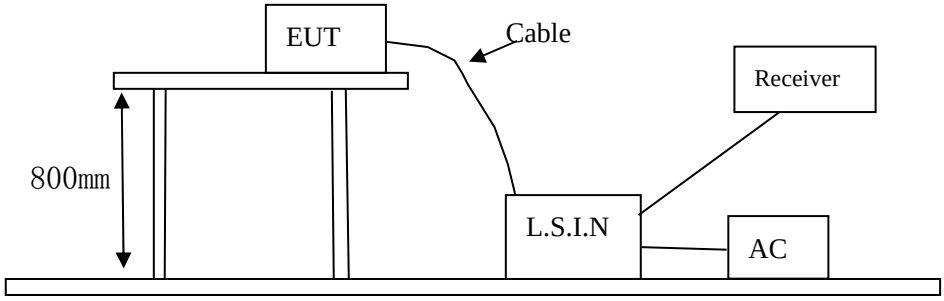
EUT: Equipment Under Test

5.2 Test Method and test Procedure

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

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

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

16 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
REDRAGON SCISSORS MECHANISM SLIM WIRELESS KEYBOARD	Eastern Times Technology Co.,Ltd	BK-7111, BK-7114WG	TUVET-7114A

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 (MHz)	Limits (dB μ 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

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

EUT Operating Environment

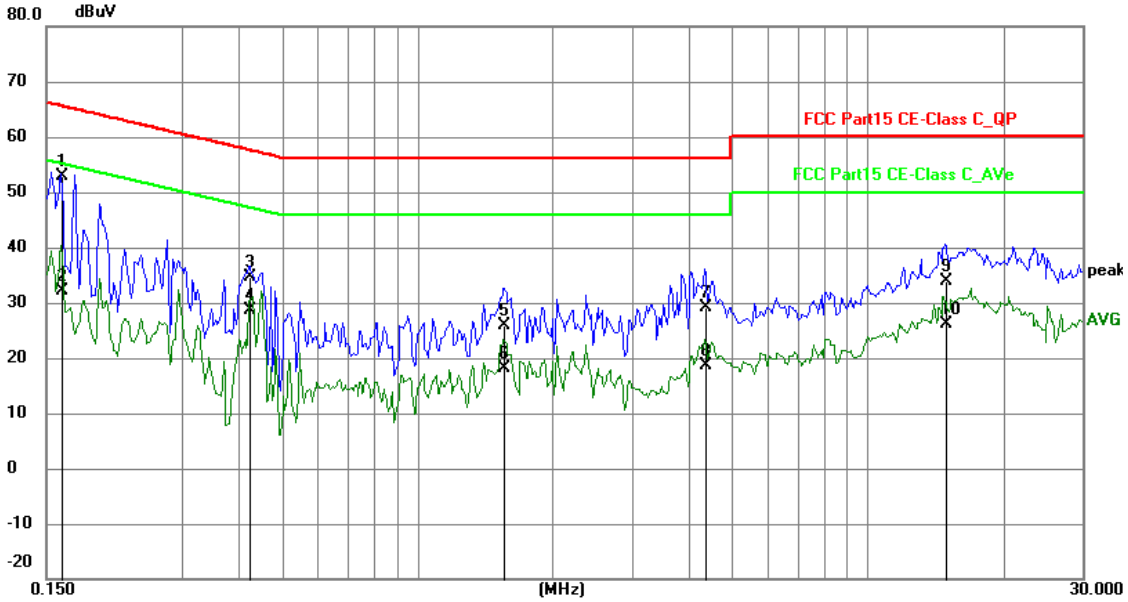
Temperature: 26℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep Transmitting

Model: BK-7114WG

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	0.1617	42.59	10.34	52.93	65.38	-12.45	QP	P
2	0.1617	21.77	10.34	32.11	55.38	-23.27	AVG	P
3	0.4230	24.22	10.38	34.60	57.39	-22.79	QP	P
4	0.4230	18.18	10.38	28.56	47.39	-18.83	AVG	P
5	1.5579	14.97	10.96	25.93	56.00	-30.07	QP	P
6	1.5579	7.17	10.96	18.13	46.00	-27.87	AVG	P
7	4.3533	17.08	12.13	29.21	56.00	-26.79	QP	P
8	4.3533	6.40	12.13	18.53	46.00	-27.47	AVG	P
9	14.8911	18.88	15.10	33.98	60.00	-26.02	QP	P
10	14.8911	10.93	15.10	26.03	50.00	-23.97	AVG	P

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

EUT Operating Environment

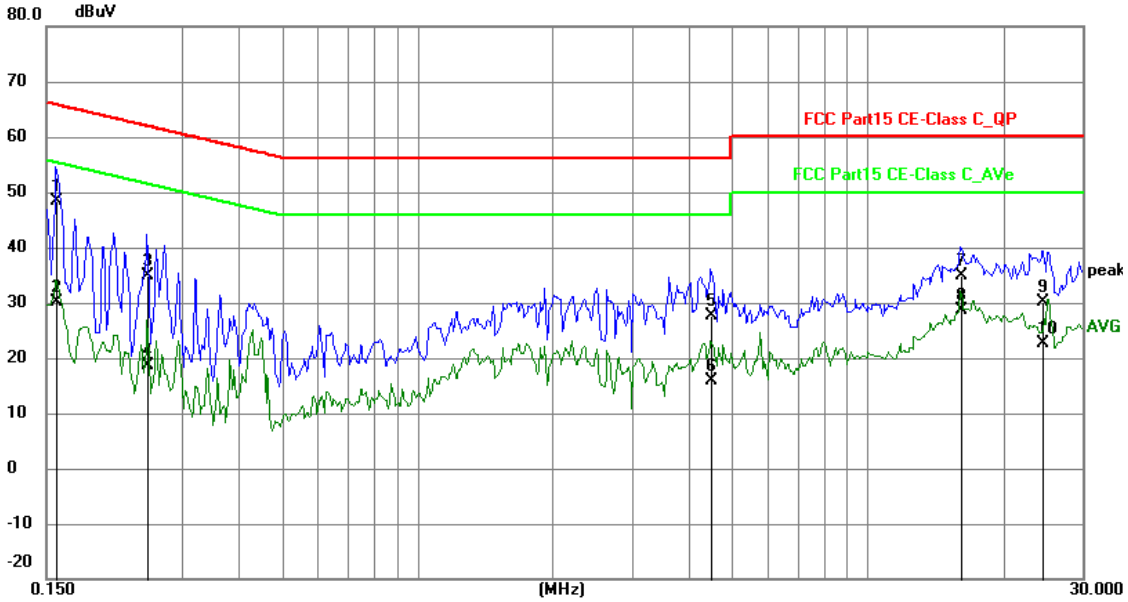
Temperature: 26℃ Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Keep Transmitting

Model: BK-7114WG

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1578	37.97	10.34	48.31	65.58	-17.27	QP	P
2	0.1578	19.87	10.34	30.21	55.58	-25.37	AVG	P
3	0.2514	24.48	10.33	34.81	61.71	-26.90	QP	P
4	0.2514	8.32	10.33	18.65	51.71	-33.06	AVG	P
5	4.4820	15.39	12.16	27.55	56.00	-28.45	QP	P
6	4.4820	3.72	12.16	15.88	46.00	-30.12	AVG	P
7	16.1118	19.40	15.42	34.82	60.00	-25.18	QP	P
8	16.1118	13.19	15.42	28.61	50.00	-21.39	AVG	P
9	24.5201	14.70	15.45	30.15	60.00	-29.85	QP	P
10	24.5201	7.08	15.45	22.53	50.00	-27.47	AVG	P

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.

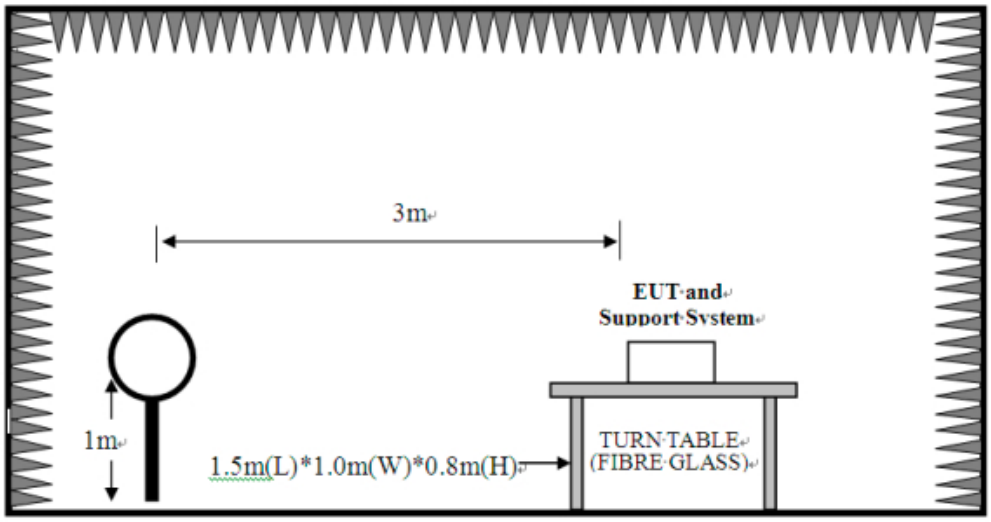
(3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, 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.

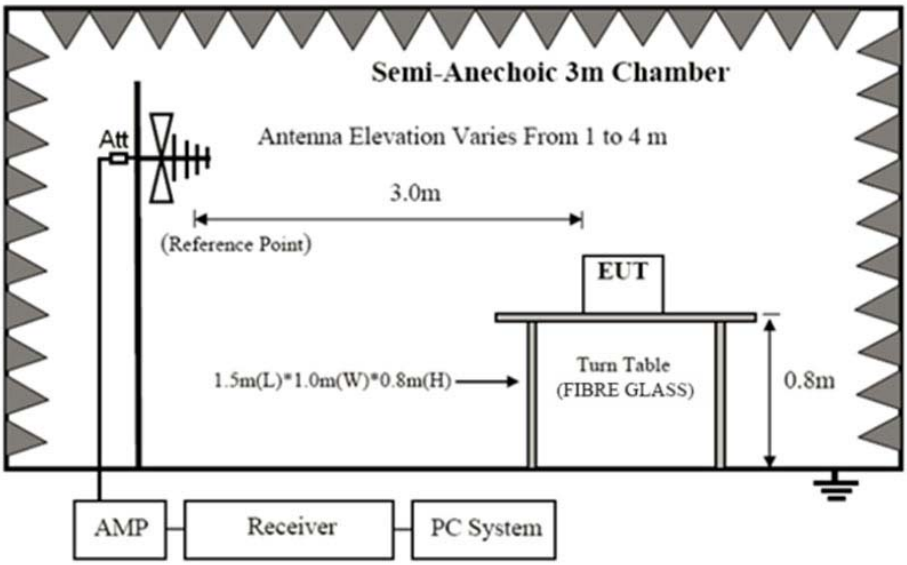
(5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

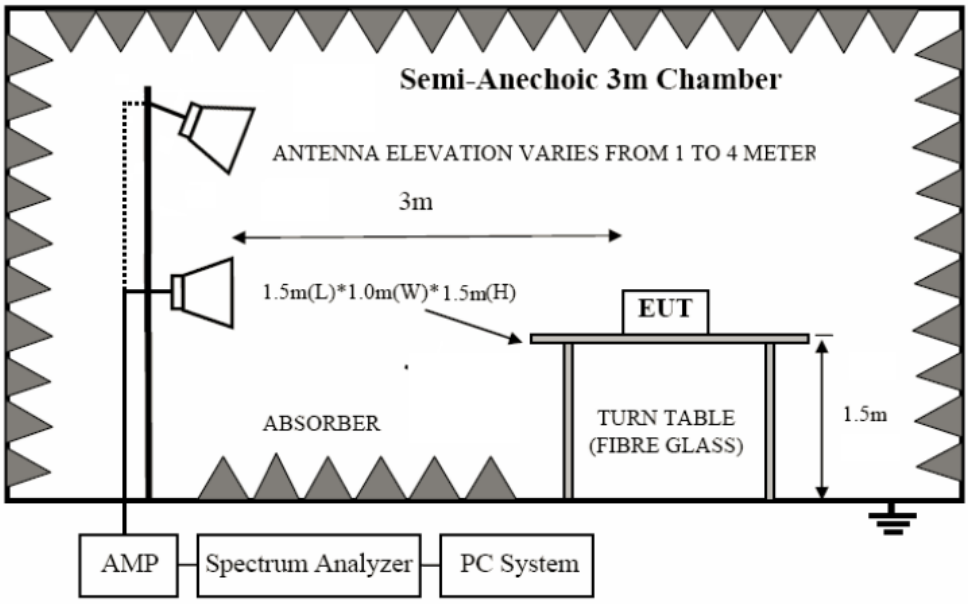
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



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:

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
30-80	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.

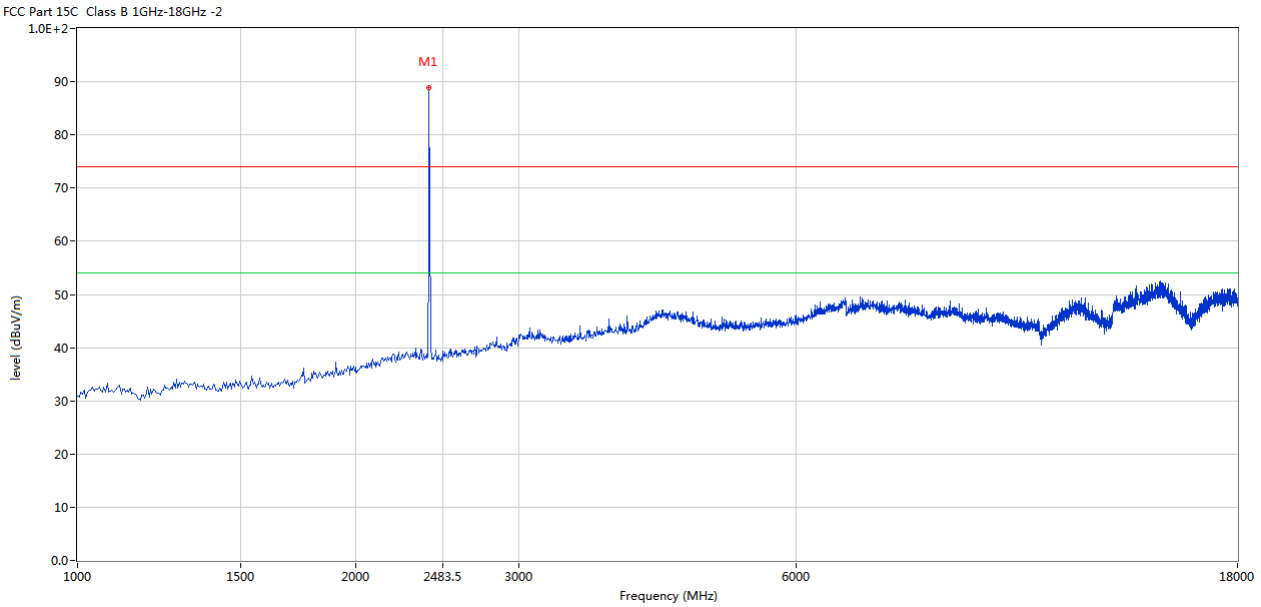
6. Battery full charged was used during tests or new batteries were used during tests

6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

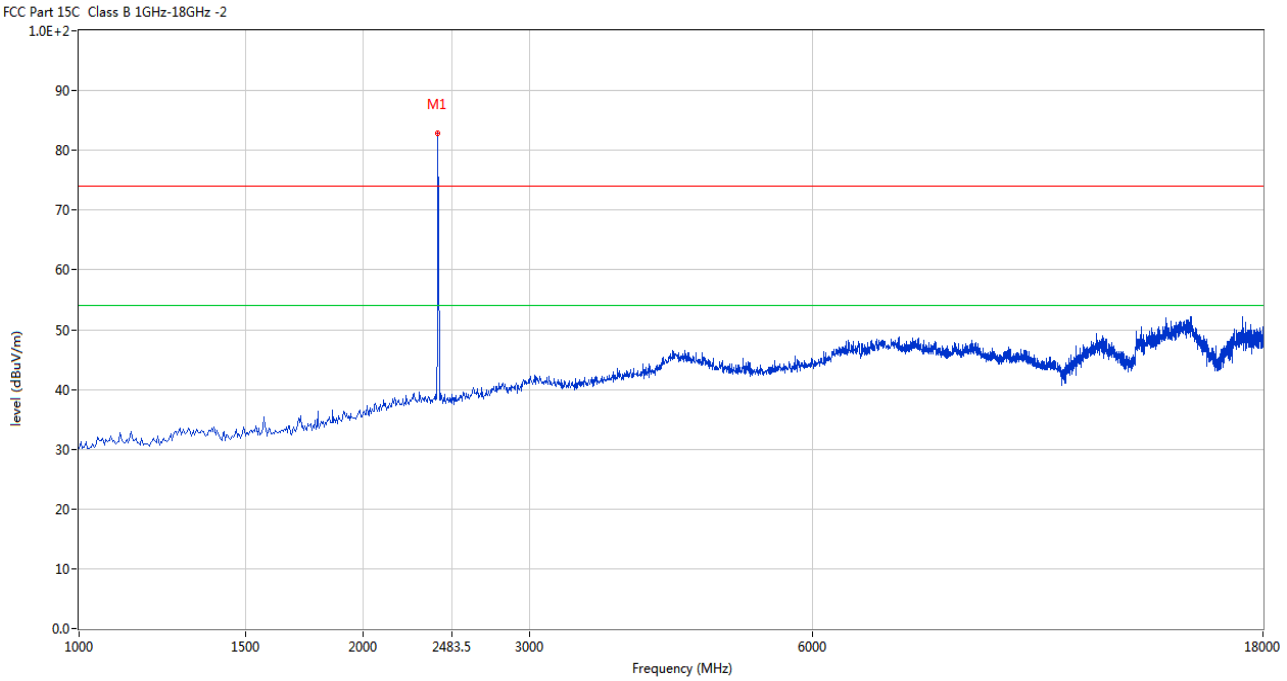
Please refer to the following test plots for details: Low Channel-2403MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403	88.82	-3.57	114.0	-25.18	Peak	240.00	100	Horizontal	Pass

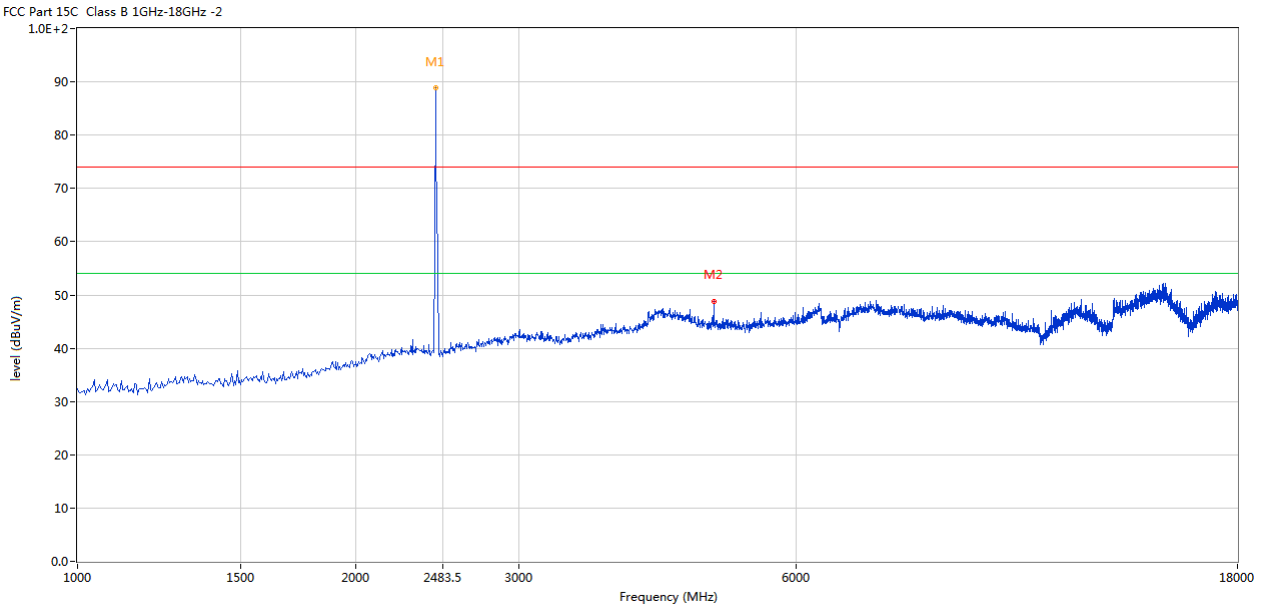
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403	82.85	-3.57	74.0	-31.15	Peak	150.00	100	Vertical	Pass

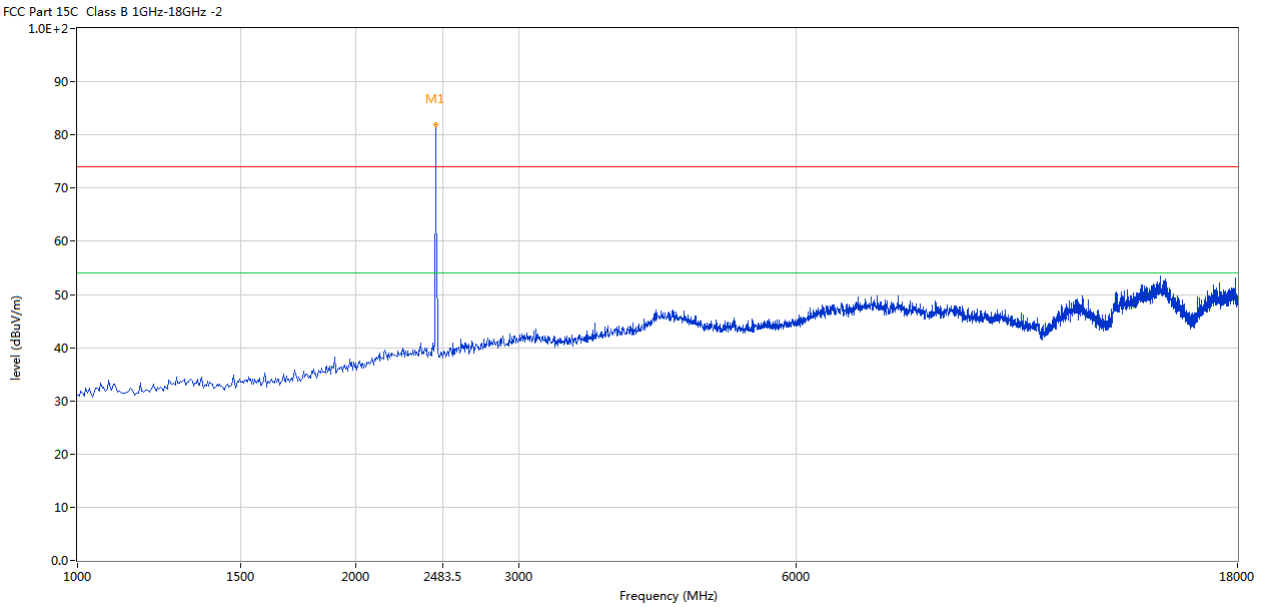
Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	88.82	-3.57	114.0	-25.18	Peak	31.00	100	Horizontal	Pass
2	4883.529	48.86	3.20	74.0	-25.14	Peak	134.00	100	Horizontal	Pass

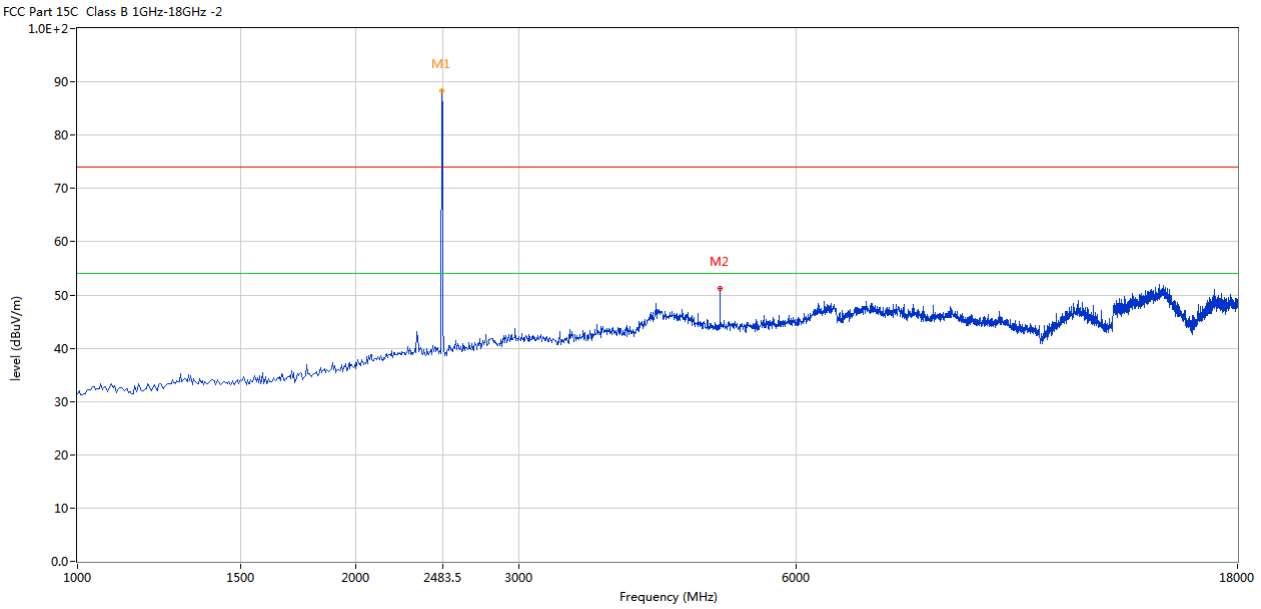
Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	81.83	-3.57	114.0	-32.17	Peak	338.00	100	Vertical	Pass

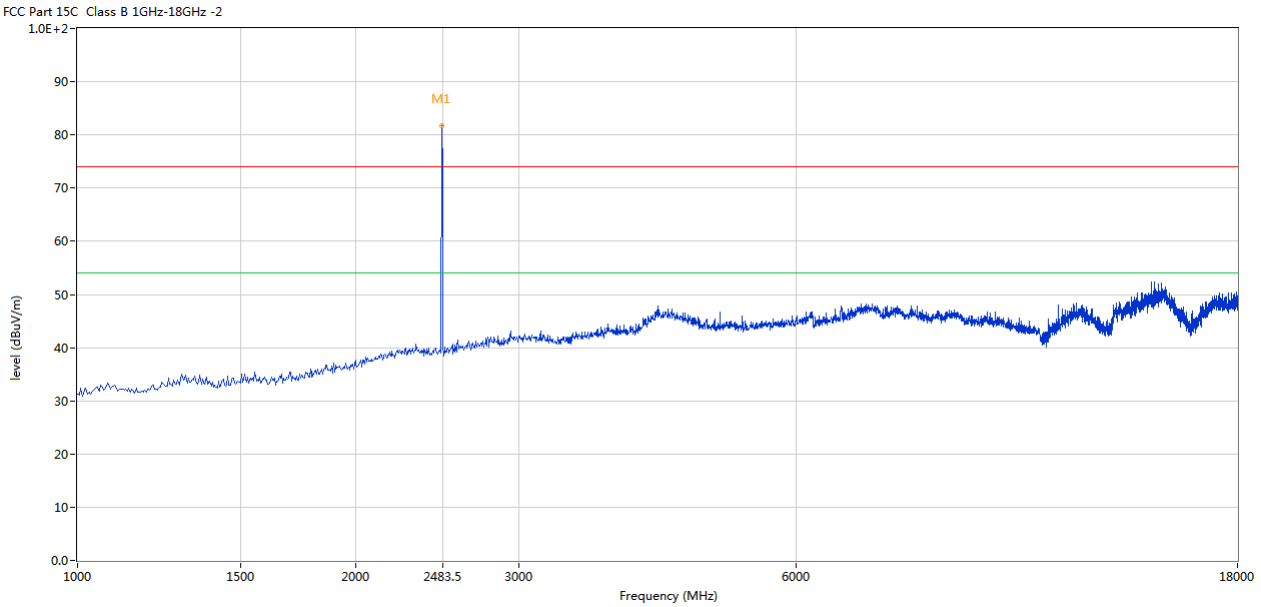
Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	88.25	-3.57	114.0	-25.75	Peak	235.00	100	Horizontal	Pass
2	4960.010	51.24	3.36	74.0	-22.76	Peak	132.00	100	Horizontal	Pass

Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	81.80	-3.57	114.0	-32.20	Peak	171.00	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.

B. General Radiated Emission Data

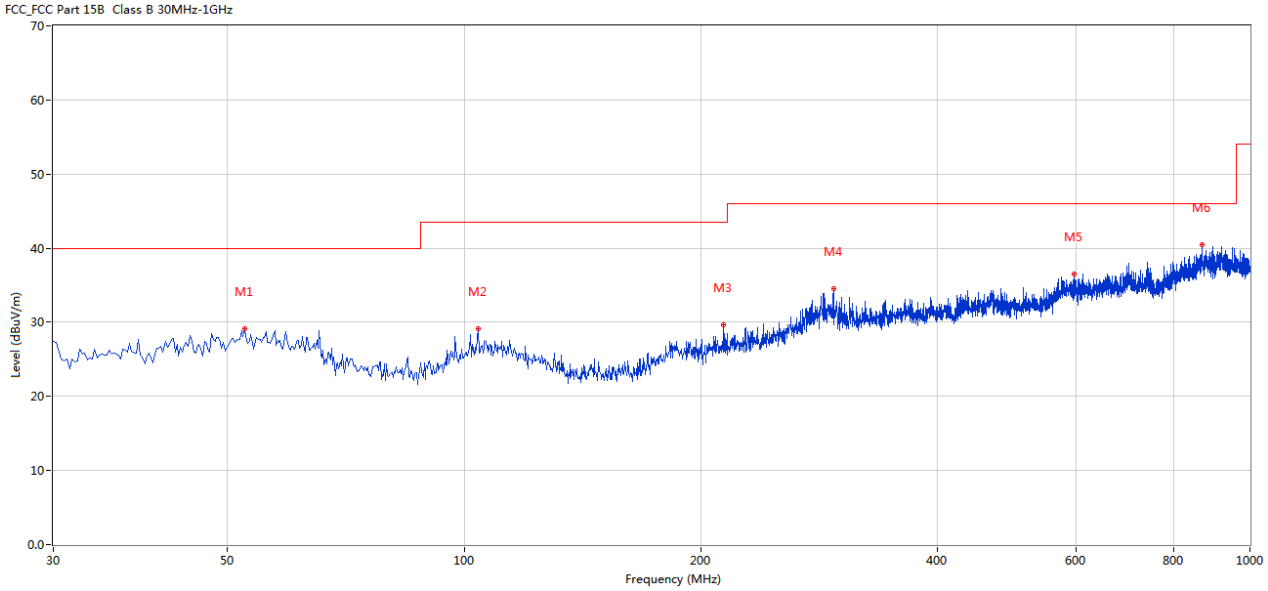
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Model: BK-7111

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	52.547	29.13	-4.94	40.0	10.87	Peak	34.00	100	Horizontal	Pass
2	104.186	29.12	-6.43	43.5	14.38	Peak	34.00	100	Horizontal	Pass
3	213.769	29.65	-6.83	43.5	13.85	Peak	274.00	100	Horizontal	Pass
4	294.986	34.51	-3.95	46.0	11.49	Peak	305.00	100	Horizontal	Pass
5	597.793	36.54	1.54	46.0	9.46	Peak	266.00	100	Horizontal	Pass
6	869.083	40.42	5.09	46.0	5.58	Peak	29.00	100	Horizontal	Pass

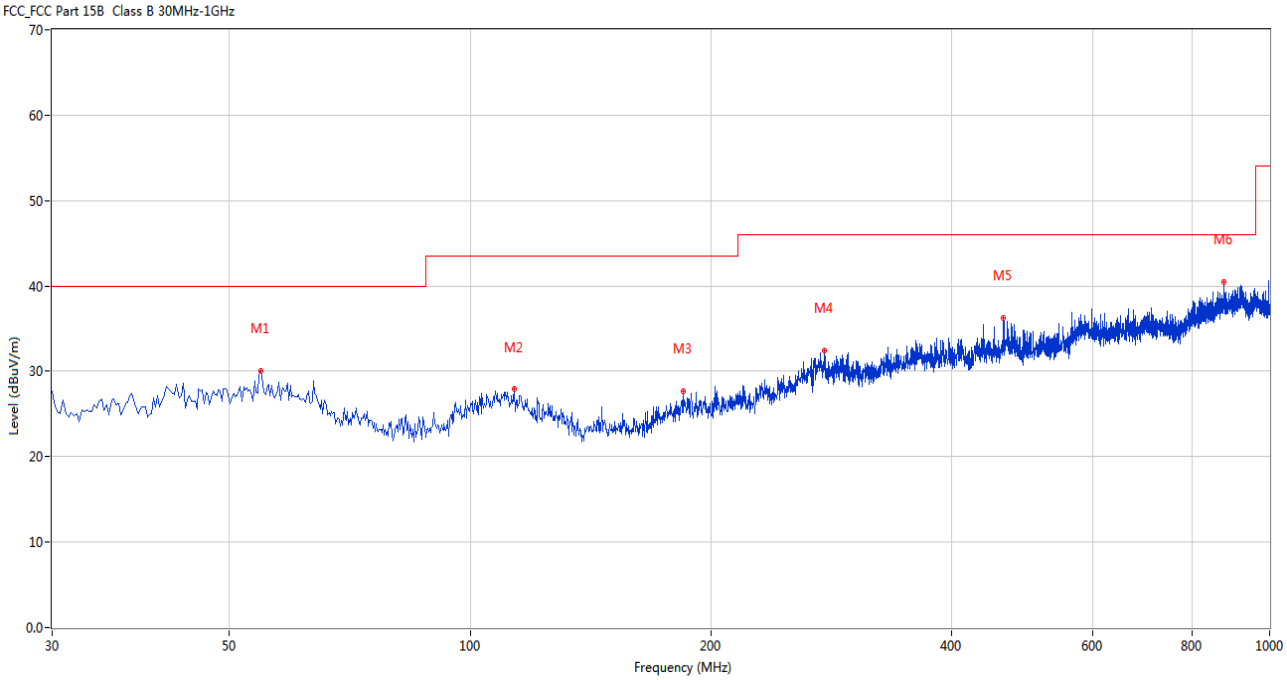
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Model: BK-7111

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	54.729	30.08	-5.15	40.0	9.92	Peak	229.00	100	Vertical	Pass
2	113.399	27.89	-6.44	43.5	15.61	Peak	27.00	100	Vertical	Pass
3	184.676	27.64	-7.20	43.5	15.86	Peak	243.00	100	Vertical	Pass
4	277.288	32.40	-5.33	46.0	13.60	Peak	286.00	100	Vertical	Pass
5	464.936	36.21	-0.56	46.0	9.79	Peak	338.00	100	Vertical	Pass
6	875.871	40.48	4.99	46.0	5.52	Peak	272.00	100	Vertical	Pass

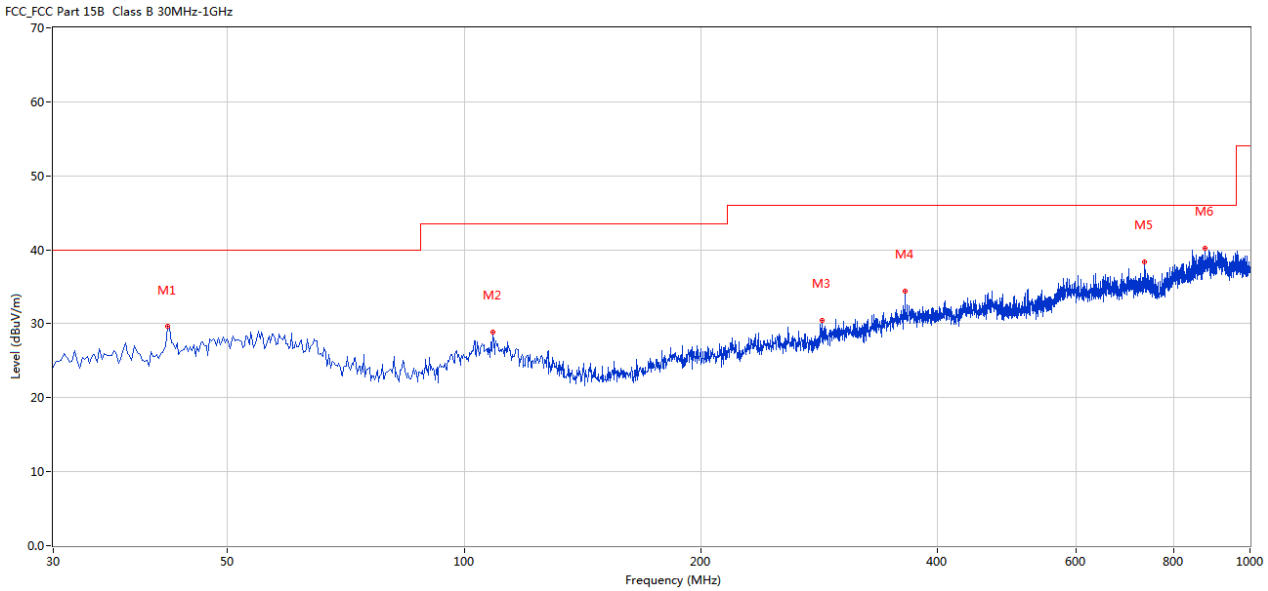
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Model: BK-7114WG

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	41.880	29.60	-5.47	40.0	10.40	Peak	110.00	100	Horizontal	Pass
2	108.793	28.89	-5.98	43.5	14.61	Peak	251.00	100	Horizontal	Pass
3	285.531	30.40	-4.53	46.0	15.60	Peak	101.00	100	Horizontal	Pass
4	364.324	34.44	-1.82	46.0	11.56	Peak	114.00	100	Horizontal	Pass
5	735.014	38.38	2.33	46.0	7.62	Peak	360.00	100	Horizontal	Pass
6	876.841	40.22	5.03	46.0	5.78	Peak	24.00	100	Horizontal	Pass

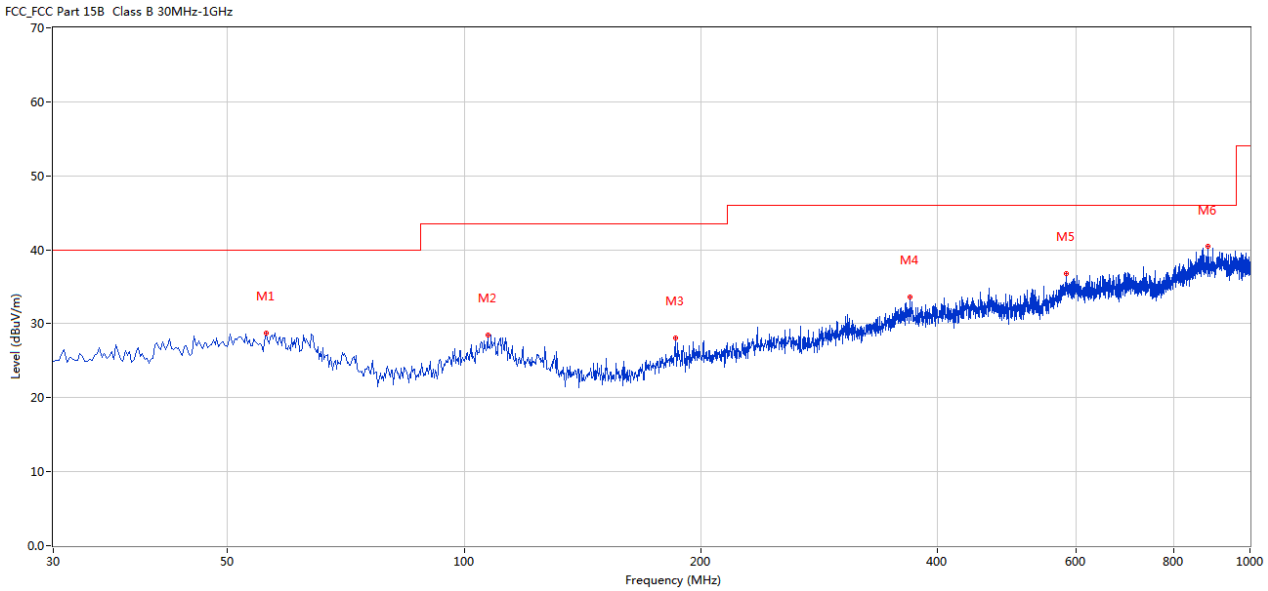
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Model: BK-7114WG

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	55.941	28.78	-5.06	40.0	11.22	Peak	356.00	100	Vertical	Pass
2	107.096	28.46	-6.09	43.5	15.04	Peak	267.00	100	Vertical	Pass
3	185.646	28.13	-7.18	43.5	15.37	Peak	61.00	100	Vertical	Pass
4	369.173	33.68	-1.72	46.0	12.32	Peak	191.00	100	Vertical	Pass
5	583.004	36.80	1.70	46.0	9.20	Peak	136.00	100	Vertical	Pass
6	884.599	40.41	4.91	46.0	5.59	Peak	106.00	100	Vertical	Pass

7. Band Edge

7.1 Test Method and test Procedure:

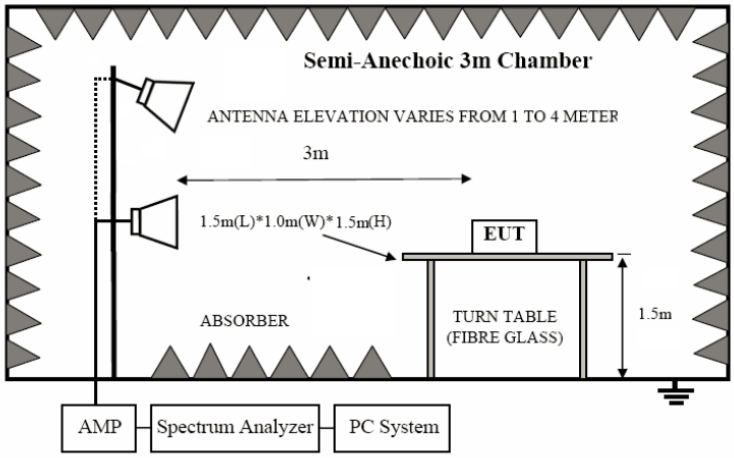
(1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189

(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

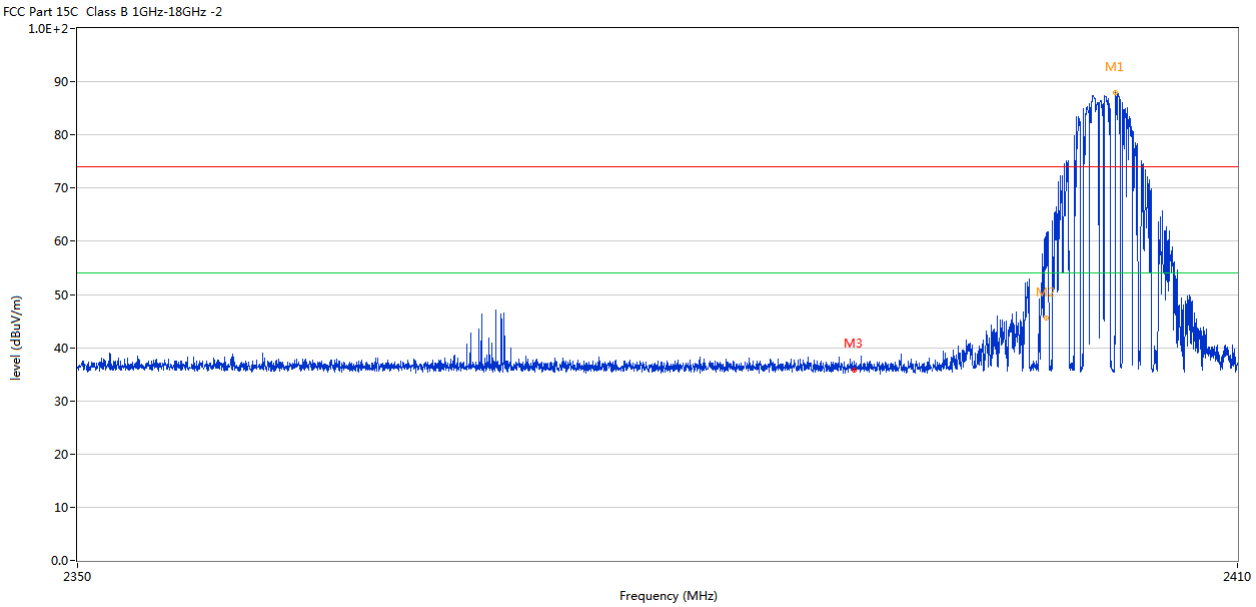
Same as section 5.4 of this report.

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.

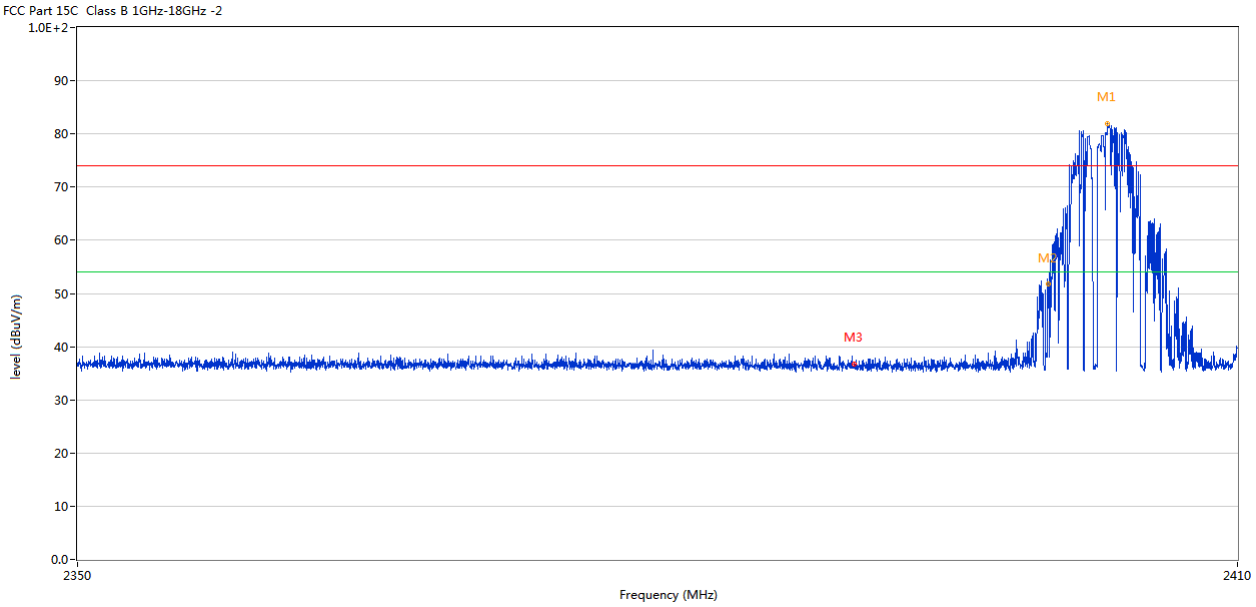
7.6 Test Result

Product:	REDRAGON SCISSORS MECHANISM SLIM WIRELESS KEYBOARD	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



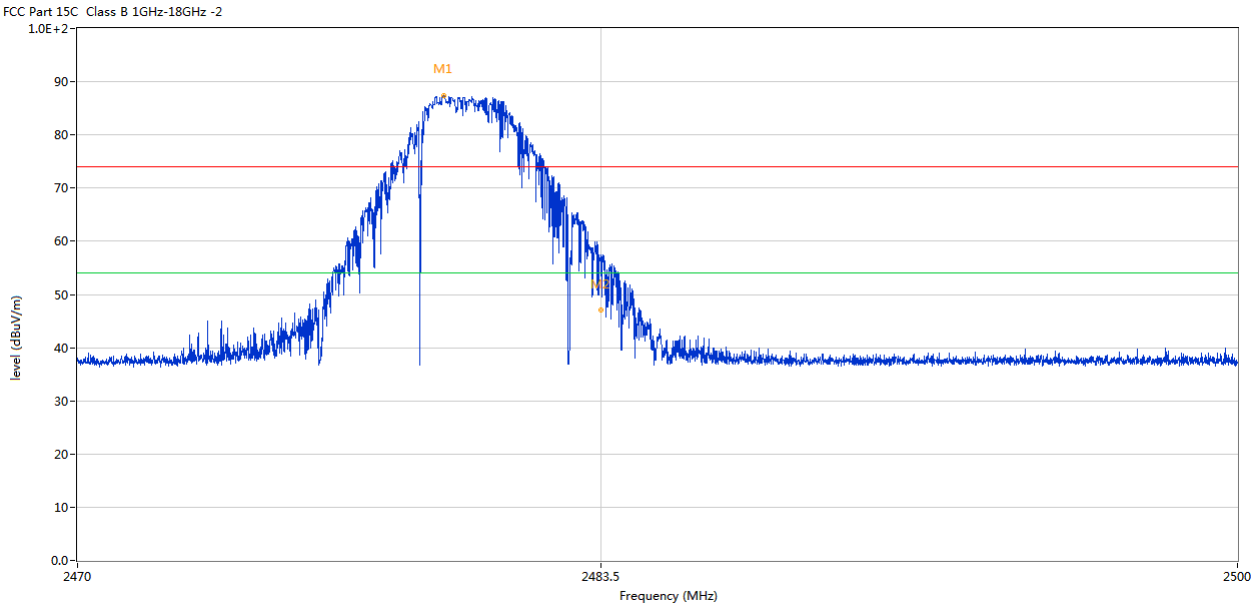
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403.627	87.92	-3.57	74.0	13.92	Peak	330.00	100	Horizontal	N/A
2	2400.012	55.66	-3.57	74.0	-18.34	Peak	314.00	100	Horizontal	Pass
2**	2400.012	45.53	-3.57	54.0	-8.47	AV	314.00	100	Horizontal	Pass
3	2390.010	35.85	-3.53	74.0	-38.15	Peak	143.00	100	Horizontal	Pass

Product:	REDRAGON SCISSORS MECHANISM SLIM WIRELESS KEYBOARD	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



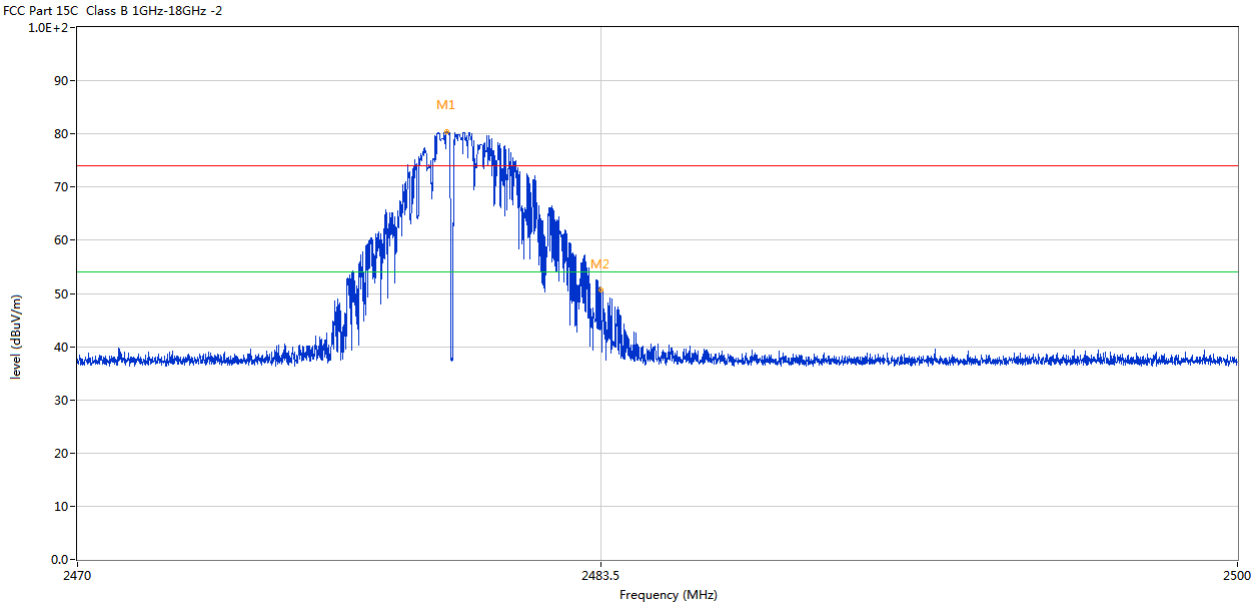
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403.192	81.92	-3.57	74.0	7.92	Peak	11.00	100	Vertical	N/A
2	2400.087	51.88	-3.57	74.0	-22.12	Peak	192.00	100	Vertical	Pass
3	2390.010	36.81	-3.53	74.0	-37.19	Peak	324.00	100	Vertical	Pass

Product:	REDRAGON SCISSORS MECHANISM SLIM WIRELESS 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	2479.433	87.34	-3.57	74.0	13.34	Peak	223.00	100	Horizontal	N/A
2	2483.500	57.44	-3.57	74.0	-16.56	Peak	318.00	100	Horizontal	Pass
2**	2483.500	47.09	-3.57	54.0	-6.91	AV	318.00	100	Horizontal	Pass

Product:	REDRAGON SCISSORS MECHANISM SLIM WIRELESS KEYBOARD	Detector	Vertical
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	2479.515	80.42	-3.57	74.0	6.42	Peak	21.00	100	Vertical	N/A
2	2483.500	50.59	-3.57	74.0	-23.41	Peak	6.00	100	Vertical	Pass

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

8.0 Antenna Requirement

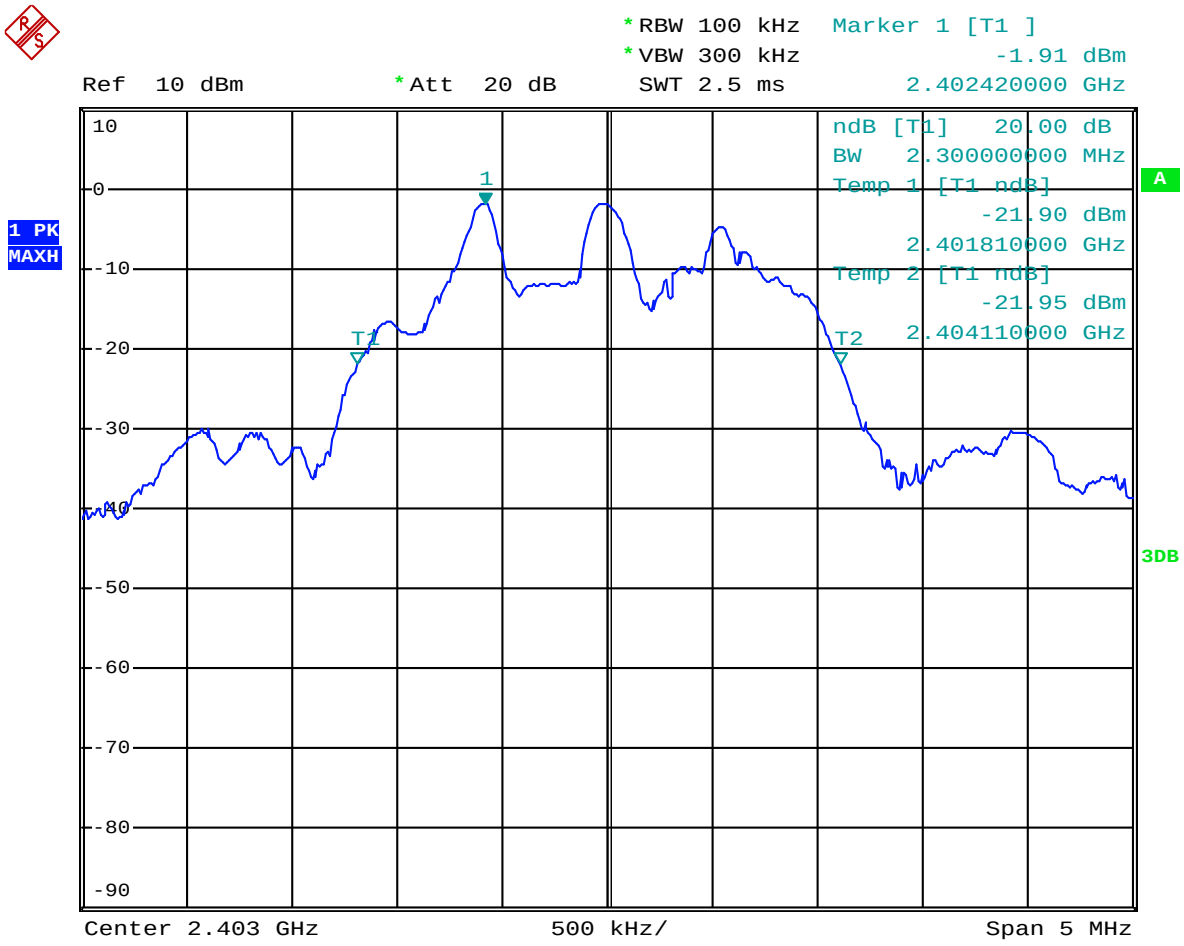
Applicable Standard

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 -1.66dBi Max. It fulfills the requirement of this section.

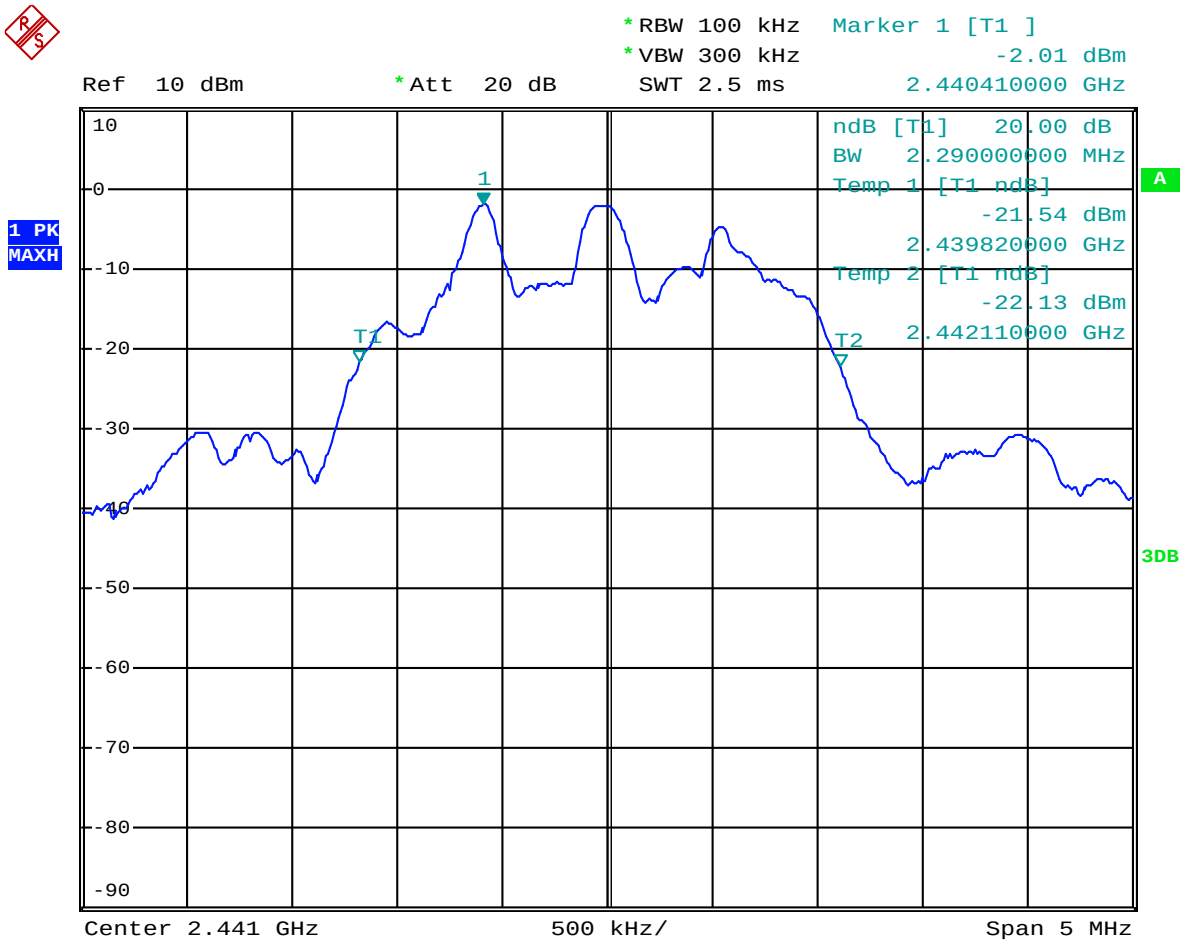
Test Result: Pass

9.0 20dB Bandwidth Measurement			
Product:	REDRAGON SCISSORS MECHANISM SLIM WIRELESS 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	2.300MHz	--	--



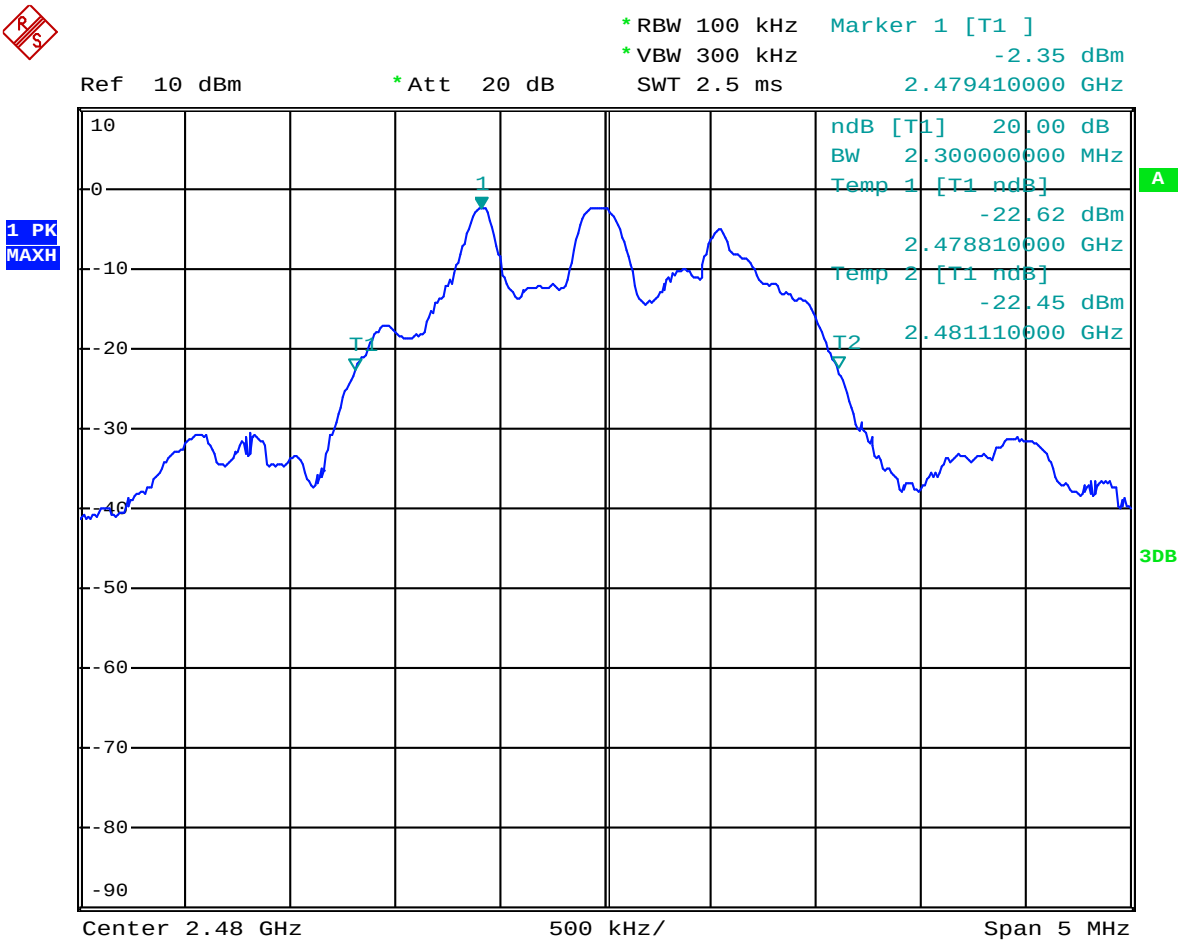
Date: 18.NOV.2024 08:22:53

Product:	REDRAGON SCISSORS MECHANISM SLIM WIRELESS 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	2.290MHz	--	--



Date: 18.NOV.2024 08:29:19

Product:	REDRAGON SCISSORS MECHANISM SLIM WIRELESS 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	2.300MHz	--	--



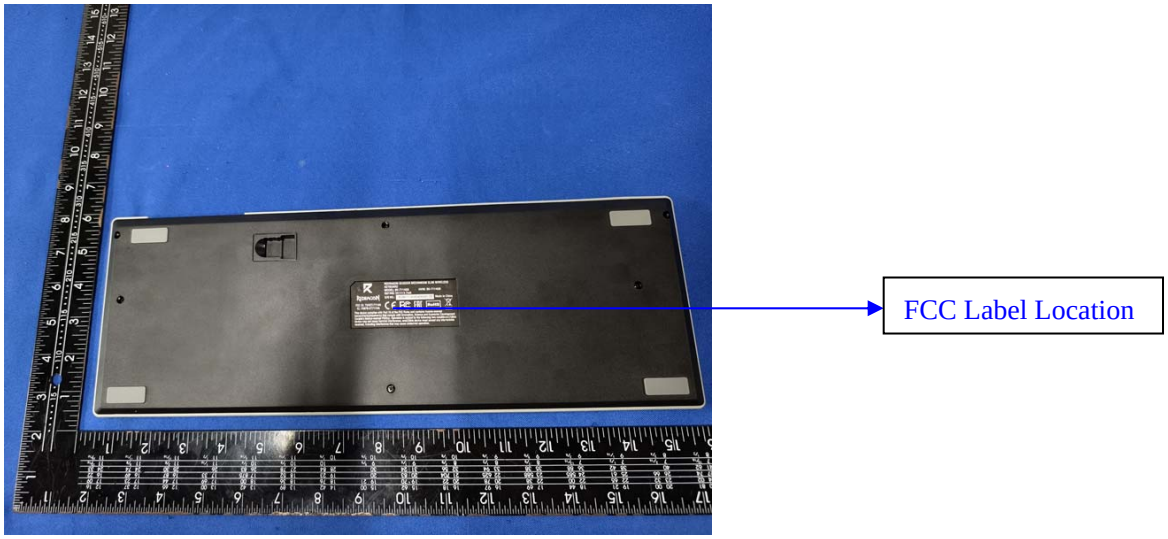
10.0 FCC ID Label

FCC ID: TUVET-7114A

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:

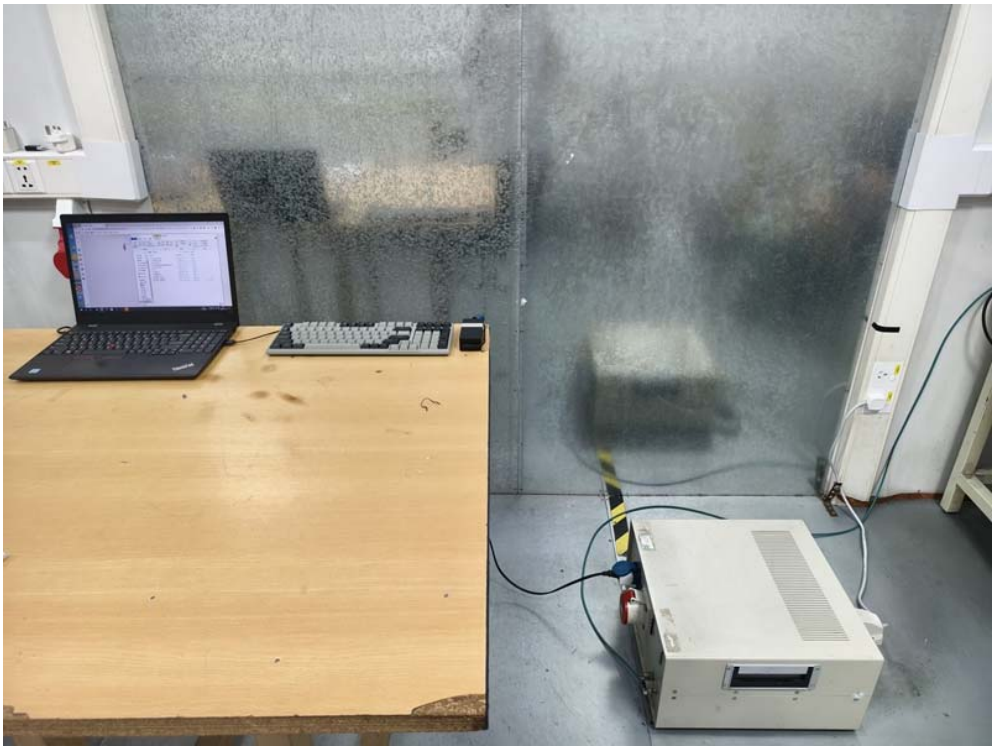


Model: BK-7114WG

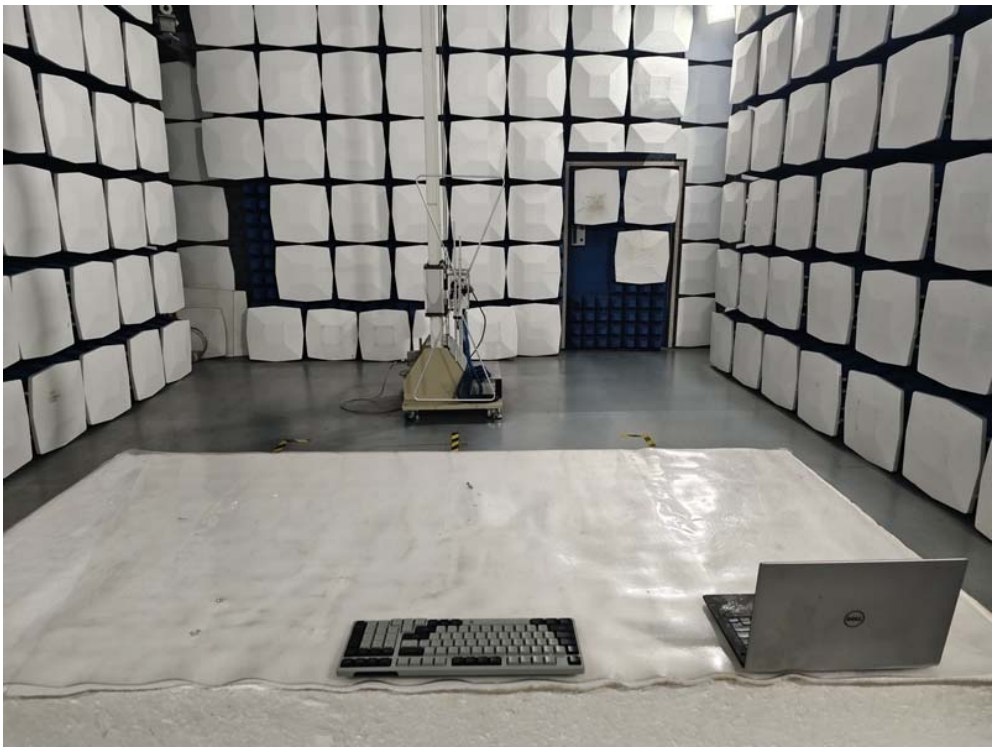
Model: BK-7111

11.0 Photo of testing

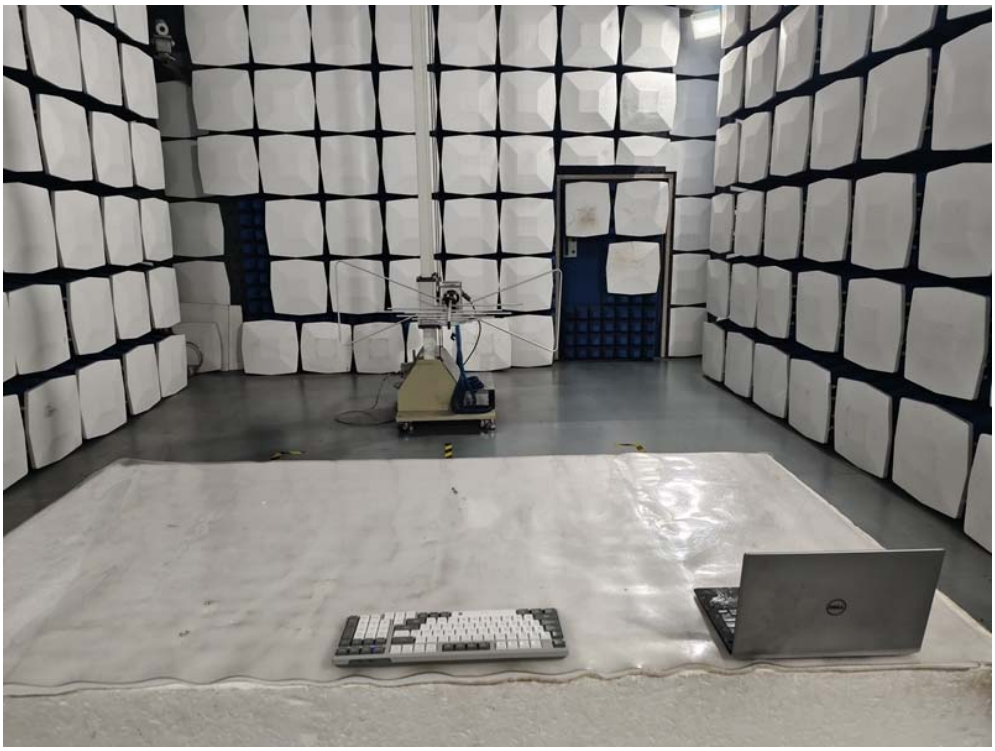
11.1 Conducted test View-- Model: BK-7114WG



Radiated emission test view- Model**:** BK-7114WG



Radiated emission test view- Model**:** BK-7111



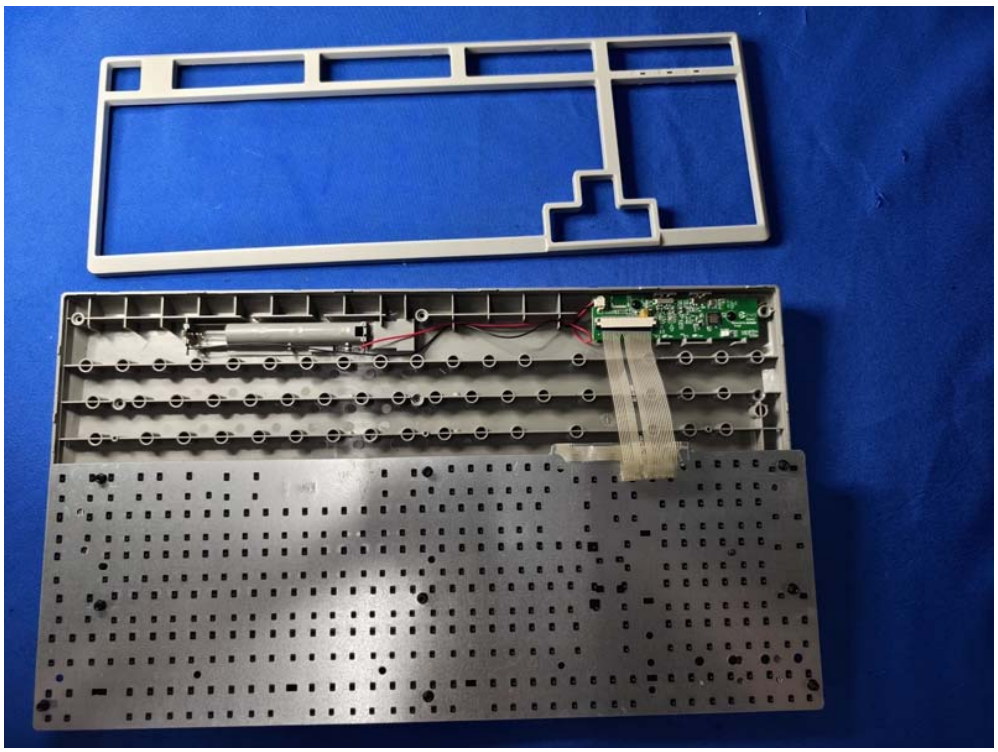
11.2 Outside View- Model**:** BK-7111

Outside View- Model**:** BK-7111

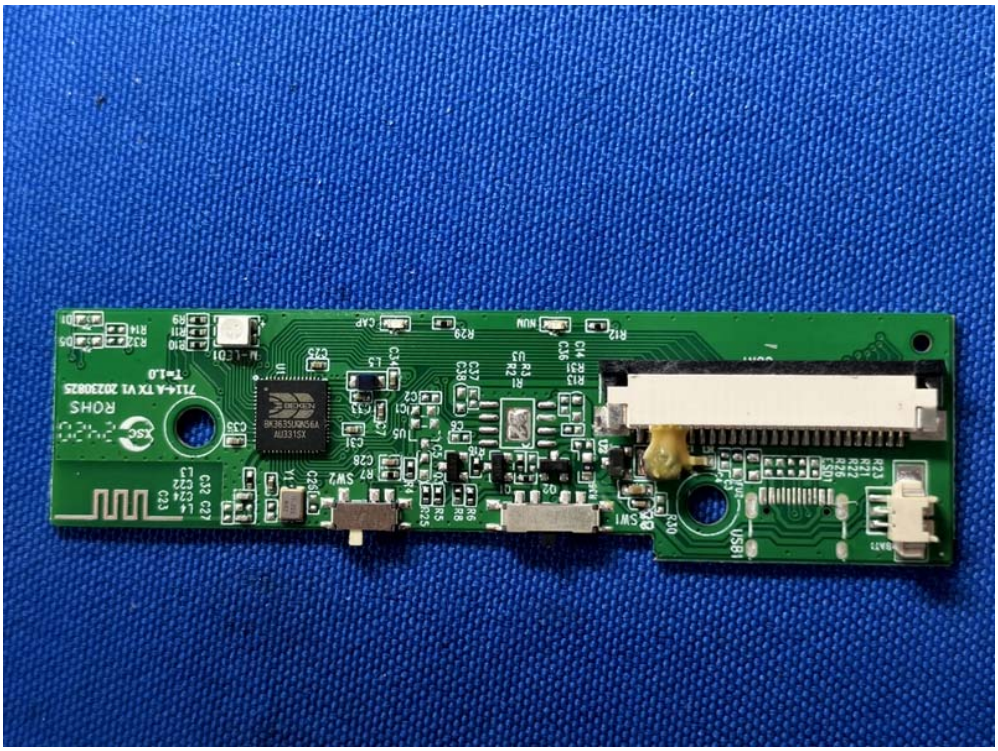
Outside View- Model**:** BK-7111

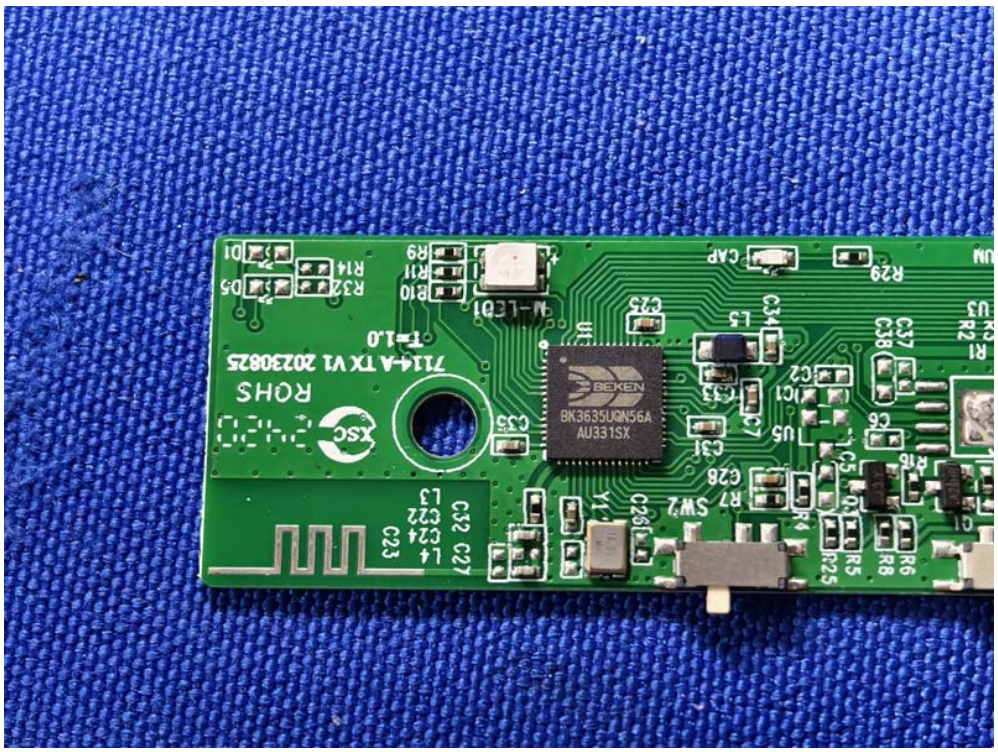
Outside View- Model**:** BK-7111

Inside View- Model**:** BK-7111

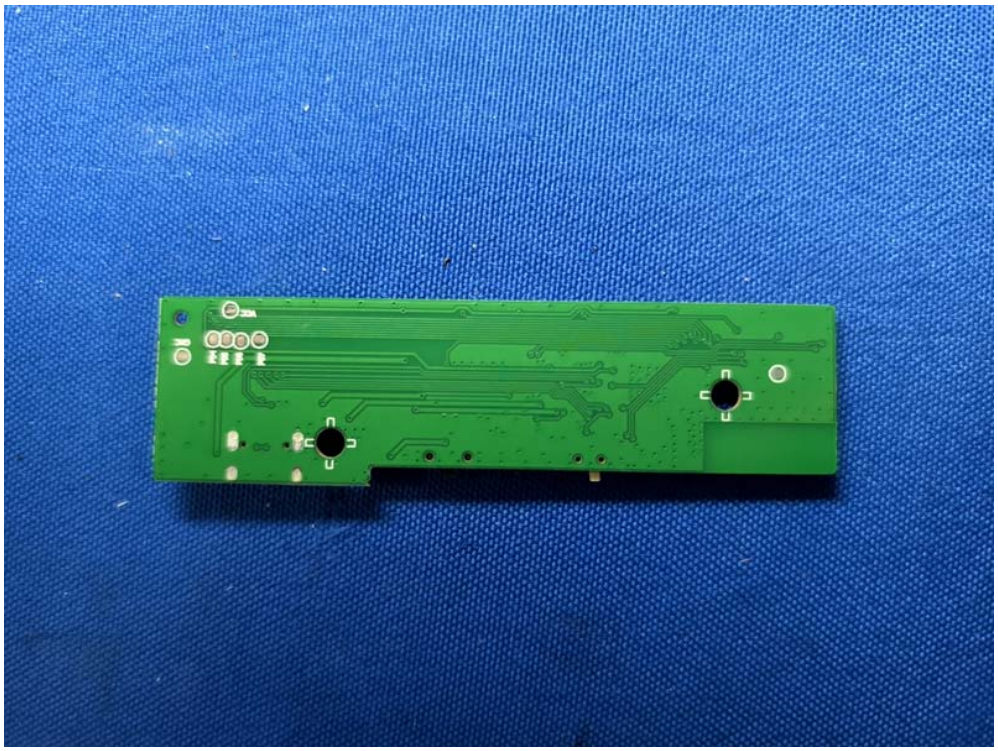


Inside View- Model**:** BK-7111





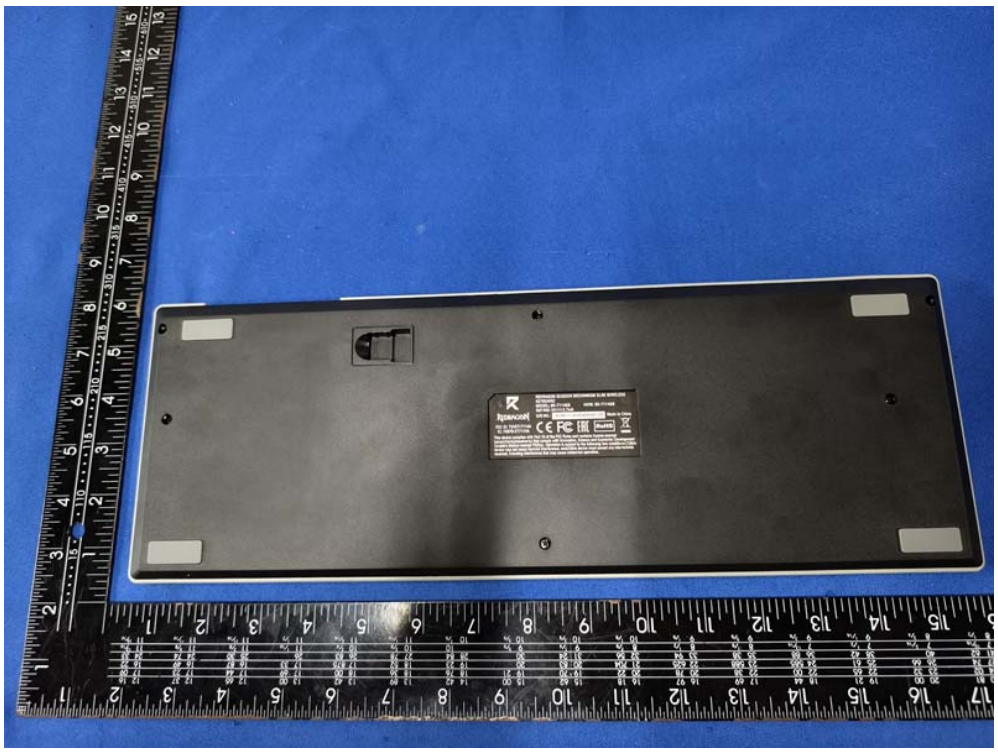
Inside View- Model**:** BK-7111



Outside View- Model**:** BK-7114WG

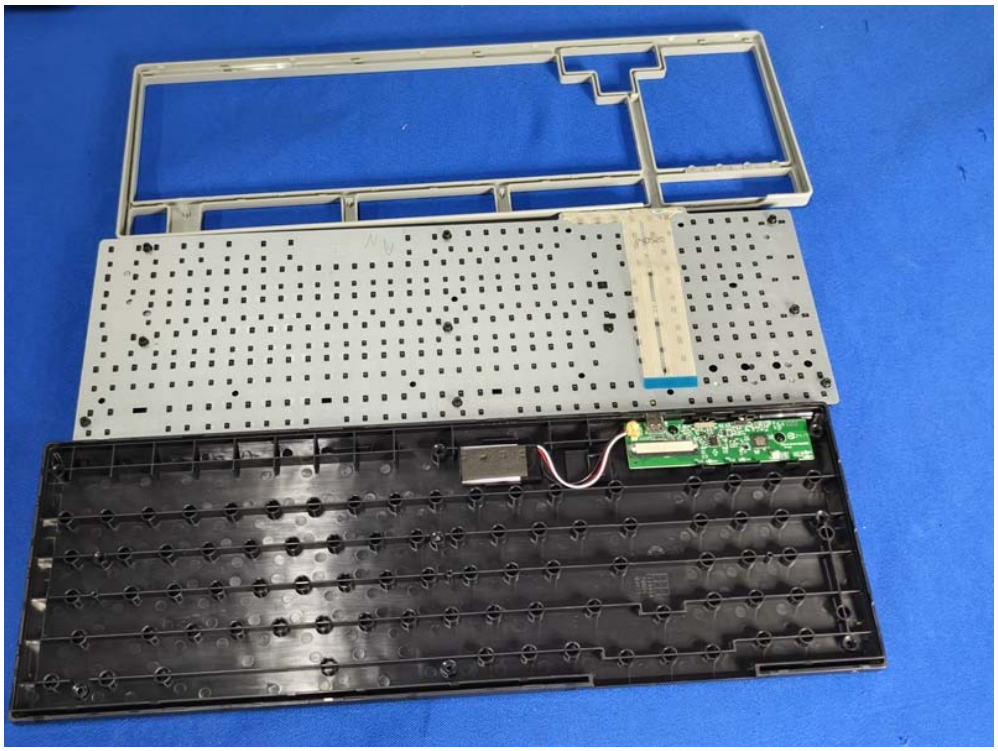
Outside View- Model**:** BK-7114WG

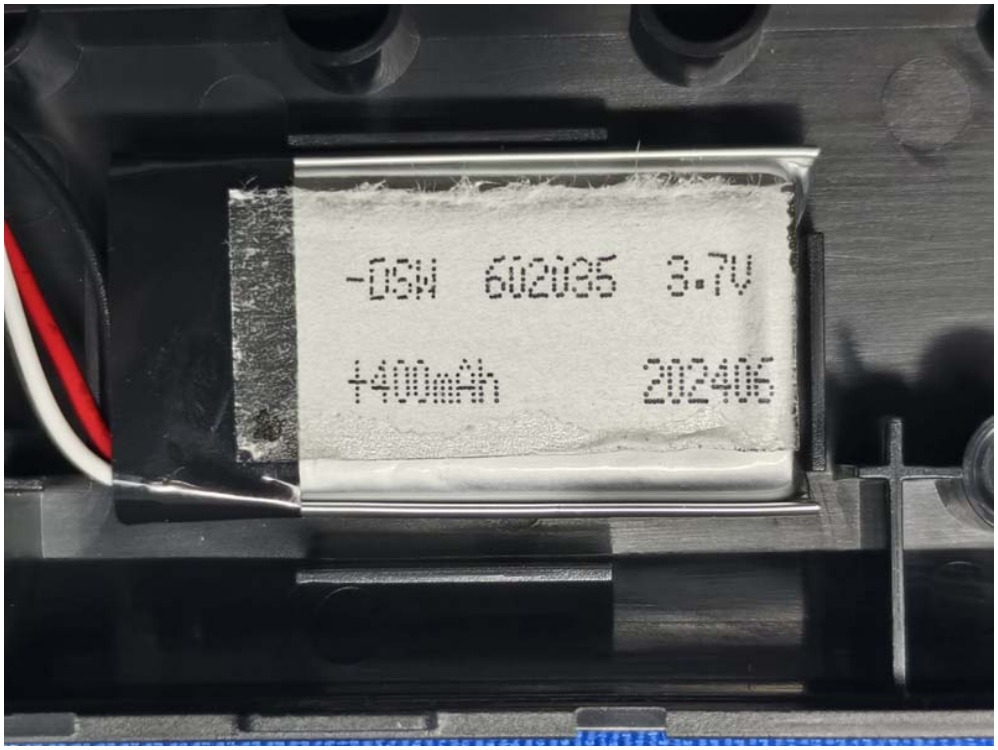
Outside View- Model**:** BK-7114WG



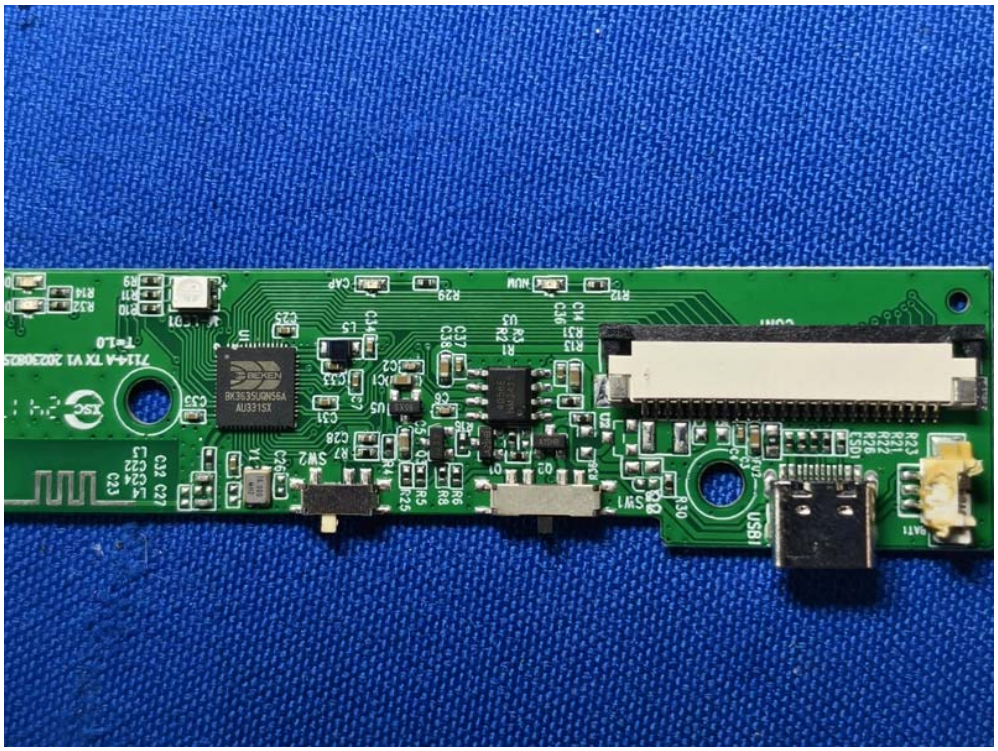
Outside View- Model**:** BK-7114WG

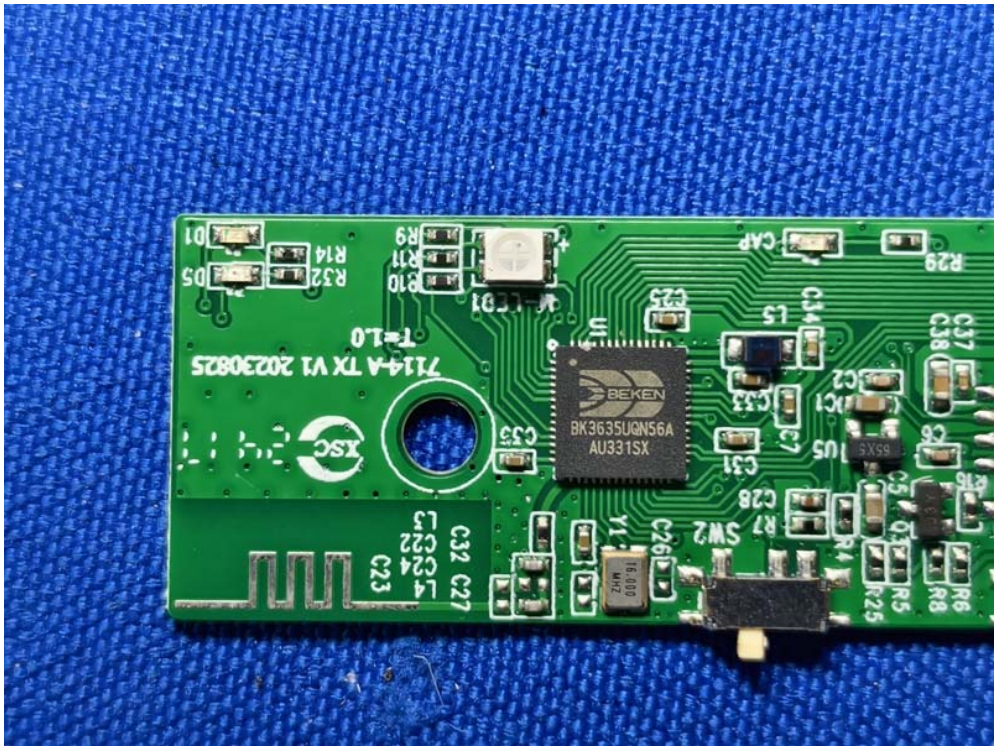
Inside View- Model**:** BK-7114WG



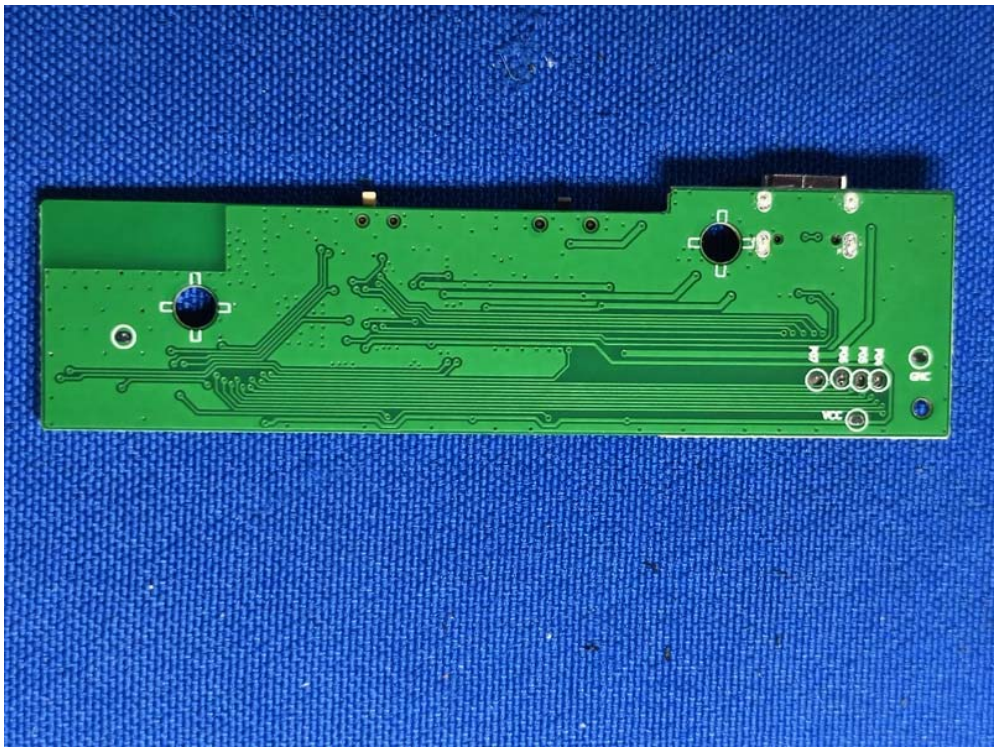


Inside View- Model**:** BK-7114WG





Inside View- Model**:** BK-7114WG



--End of the Report--