

Report No.: TW2305289E

Applicant: Shenzhen Star Sources Electronic Technology Co., Ltd

Product: Multi-Device Wireless Keyboard

Model No.: TWKBB1BK, TWKBBIBK1, TWKBBIBK2, ST-BK606,

ST-BK607, xyz (x=0-9; y=0-9; z=0-9)

Trademark: N/A

Test Standards: FCC Part 15.249

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.10 &FCC Part 15 Subpart C,

Paragraph 15.249 regulations for the evaluation of

electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: July 26, 2023

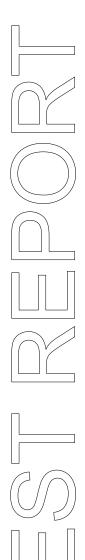
Results appearing herein relate only to the sample tested

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

SHENZHEN TIMEWAY TESTING LABORATORIES

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

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



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Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

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

Industry Canada (IC) — Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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Test Report Conclusion

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

8.0

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Antenna Requirement.....

20dB bandwidth measurement....

FCC ID Label

Photo of Test Setup and EUT View.....

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Shenzhen Star Sources Electronic Technology Co., Ltd

Address: Room 2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District, Shenzhen, China

Telephone: 86-755-86397260

Fax: --

1.3 Description of EUT

Product: Multi-Device Wireless Keyboard

Manufacturer: Shenzhen Star Sources Electronic Technology Co., Ltd

Address: Room 2102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District,

Shenzhen, China

Trademark: N/A
Additional Trademark: N/A

Model Number: TWKBB1BK

Additional Model Name TWKBBIBK1, TWKBBIBK2, ST-BK606, ST-BK607, xyz (x=0-9; y=0-9;z=0-9)

Rating: DC1.5V

Battery: DC1.5V (1pc AAA battery)
Modulation Type: GFSK (Bluetooth Low Energy)

Operation Frequency: 2402-2480MHz

Channel Separate: 2MHz
Channel Number: 40
Hardware Version: ZV2.0
Software Version: V04

Serial No.: TWKBB1BK0001-TWKBB1BK2500

Antenna Designation PCB antenna with gain -1.52dBi Max (Get from the antenna Specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2023-05-24 to 2023-07-26

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

Conducted Emissions Uncertainty = 3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

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	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2023-07-14	2024-07-13
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2023-07-14	2024-07-13
Power sensor	Anritsu	MA2491A	32263	2023-07-14	2024-07-13
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic		1	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2023-07-14	2024-07-13
EMI Test Receiver	RS	ESCS 30	834115/006	2023-07-14	2024-07-13
Spectrum	HP/Agilent	E4407B	MY50441392	2023-07-14	2024-07-13
Spectrum	RS	FSP	1164.4391.38	2023-07-14	2024-07-13
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	-	2023-07-14	2024-07-13
RF Cable	Zhengdi	7m		2023-07-14	2024-07-13
Pre-Amplifier	Schwarebeck	BBV9743	#218	2023-07-14	2024-07-13
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2023-07-14	2024-07-13
LISN	SCHAFFNER	NNB42	00012	2023-07-14	2024-07-13
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
LISN	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13

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	N/A	N/A
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies

3.2 Test Standards

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

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

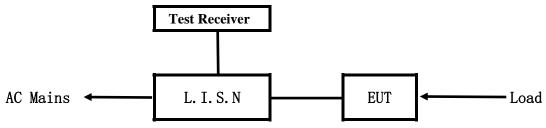
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



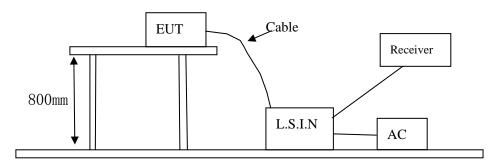
EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. 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: N/A

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.

40 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID	
Multi-Device	Shenzhen Star Sources	TWKBB1BK, TWKBBIBK1,		
Wireless		TWKBBIBK2, ST-BK606, ST-BK607,	ZJEST-BK606	
Keyboard	Electronic Technology Co., Ltd	xyz (x=0-9; y=0-9;z=0-9)		

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

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	Limits (dB μ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*		
$0.50 \sim 5.00$	56.0	46.0		
5.00 ~ 30.00	60.0	50.0		

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

5.6 Test Results:

N/A

Note: EUT powered by AAA battery, so this test item not applicable.

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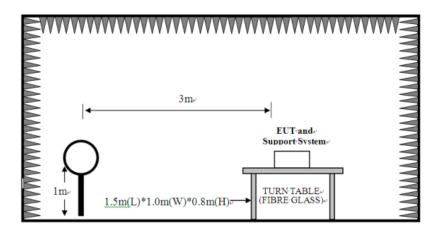


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz (Note: for Fundamental frequency radiated emission measurement, RBW=3MHz, VBW=10MHz). Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



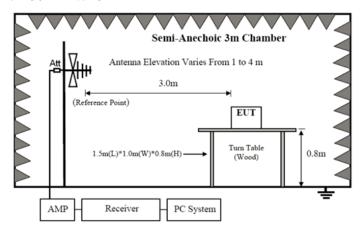
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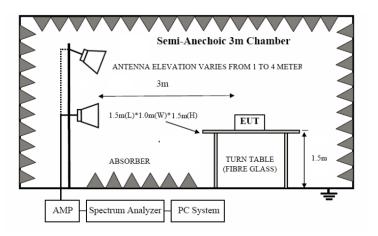
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For radiated emissions from 30MHz to1GHz



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.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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

Fundamental Frequency	Field Stre	ength of Fundame	ental (3m)	Field S	trength of Harmo	onics (3m)
(MHz)	mV/m	V/m dBuV/m uV/m dBuV/m			V/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 $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. New battery was used during the test.

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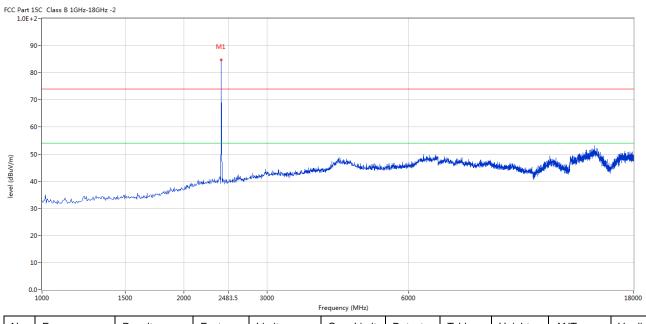


6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal



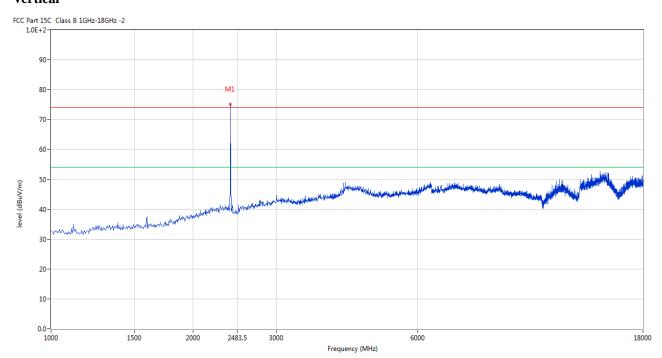
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402	85.15	-3.57	114.0	-28.85	Peak	125.00	100	Horizontal	Pass

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Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	75.19	-3.57	114.0	-38.81	Peak	183.00	100	Vertical	Pass

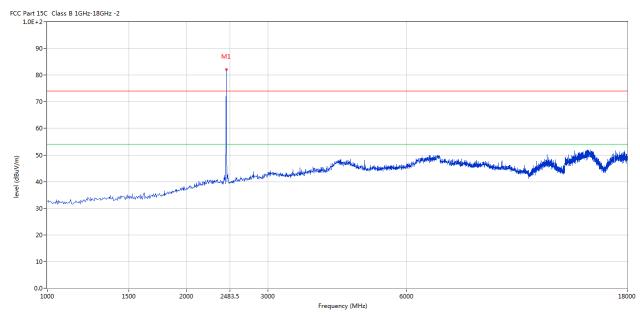
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Please refer to the following test plots for details: Middle Channel-2440MHz

Horizontal



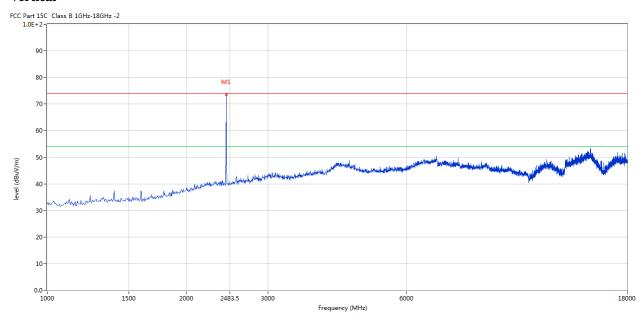
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2440	82.06	-3.57	114.0	-31.94	Peak	92.00	100	Horizontal	Pass

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Vertical



	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
Ī	1	2440	73.36	-3.57	114.0	-40.64	Peak	0.00	100	Vertical	Pass

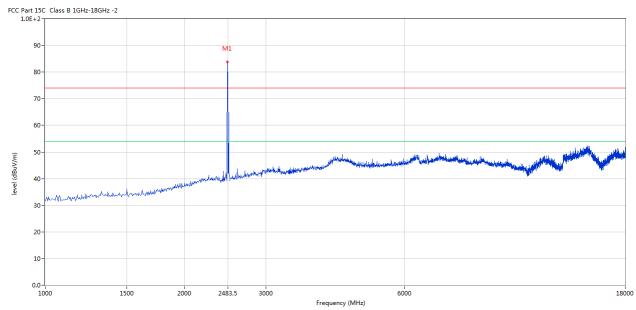
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



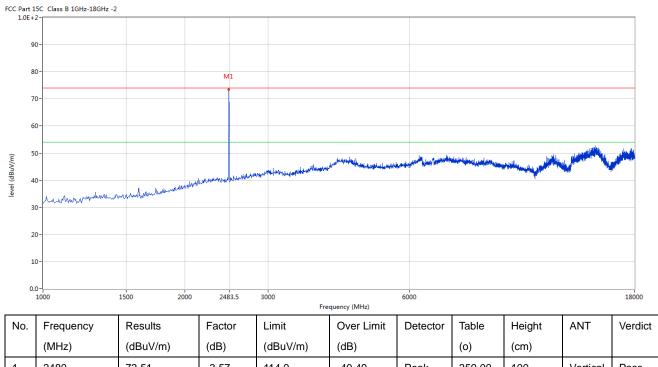
N	о.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1		2480	83.82	-3.57	114.0	-30.18	Peak	120.00	100	Horizontal	Pass

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Vertical



359.00 Pass 2480 73.51 -3.57 114.0 -40.49 Peak 100 Vertical

Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

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

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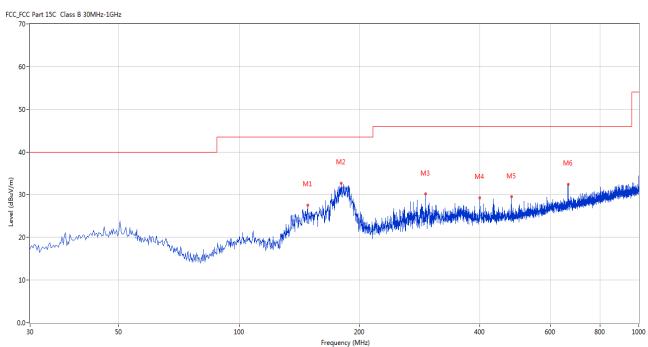


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	148.553	27.60	-17.15	43.5	15.90	Peak	271.00	100	Horizontal	Pass
2	180.070	32.72	-15.31	43.5	10.78	Peak	274.00	100	Horizontal	Pass
3	293.289	30.12	-11.28	46.0	15.88	Peak	217.00	100	Horizontal	Pass
4	399.963	29.26	-8.57	46.0	16.74	Peak	1.00	100	Horizontal	Pass
5	479.968	29.47	-7.40	46.0	16.53	Peak	207.00	100	Horizontal	Pass
6	666.403	32.43	-4.50	46.0	13.57	Peak	294.00	100	Horizontal	Pass

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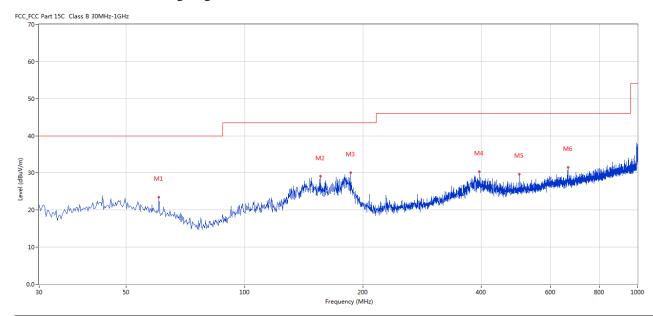


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	60.547	23.47	-13.03	40.0	16.53	Peak	273.00	100	Vertical	Pass
2	155.826	29.08	-16.65	43.5	14.42	Peak	220.00	100	Vertical	Pass
3	186.373	30.00	-14.73	43.5	13.50	Peak	294.00	100	Vertical	Pass
4	395.599	30.31	-8.69	46.0	15.69	Peak	306.00	100	Vertical	Pass
5	499.848	29.64	-6.90	46.0	16.36	Peak	44.00	100	Vertical	Pass
6	665.676	31.50	-4.49	46.0	14.50	Peak	124.00	100	Vertical	Pass

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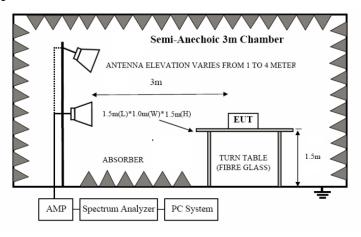


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10–2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) Set Spectrum as RBW=1MHz, VBW=3MHz and Peak detector used for PK value. RBW=1MHz, VBW=10Hz and Peak detector used for AV value.
- (3) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

7. 2 Radiated Test Setup



For the actual test configuration, please refer to the related items – Photos of Testing

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

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

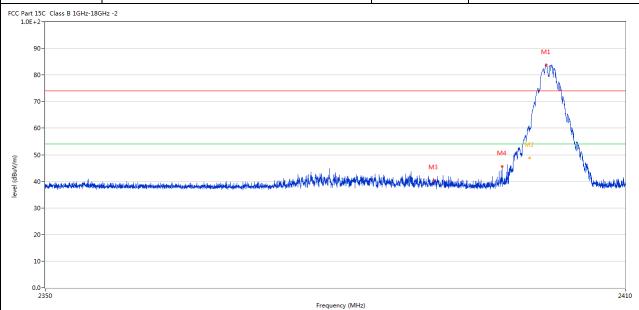
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7.6 Test Result

Product:	Multi-Device Wireless Keyboard	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC1.5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

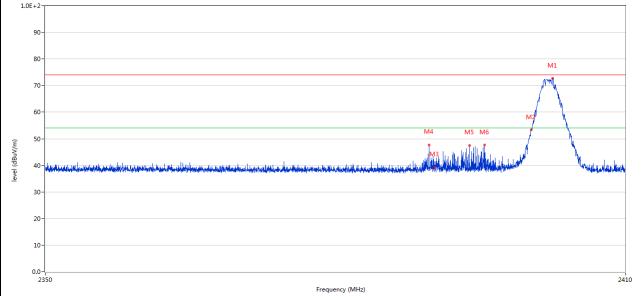


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2401.722	83.73	-3.57	74.0	9.73	Peak	66.00	100	Horizontal	N/A
2	2400.000	59.17	-3.57	74.0	-14.83	Peak	123.00	100	Horizontal	Pass
2**	2400.000	48.77	-3.57	54.0	-5.23	AV	123.00	100	Horizontal	Pass
3	2390.000	40.68	-3.53	74.0	-33.32	Peak	66.00	100	Horizontal	Pass
4	2397.148	45.52	-3.56	74.0	-28.48	Peak	71.00	100	Horizontal	Pass

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Product:	Multi-Device Wireless Keyboard	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC1.5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		
2 Part 15C Class B 1GHz-18GHz -2 1.0E+2-			



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.412	73.69	-3.57	74.0	-0.31	Peak	187.00	100	Vertical	N/A
2	2400.000	53.45	-3.57	74.0	-20.55	Peak	206.57	100	Vertical	Pass
3	2390.000	39.17	-3.53	74.0	-34.83	Peak	292.00	100	Vertical	Pass
4	2389.545	47.67	-3.53	74.0	-26.33	Peak	294.00	100	Vertical	Pass
5	2393.759	47.52	-3.54	74.0	-26.48	Peak	228.00	100	Vertical	Pass
6	2395.334	47.60	-3.55	74.0	-26.40	Peak	313.00	100	Vertical	Pass

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Prod	uct:	Mult	i-Device V	Vireless Key	board	Polar	rity	•	Horizontal	
Mo	de		Keeping '	Transmitting		Test Vo	ltage		DC1.5V	
Temper	rature		24 0	deg. C,		Humi	dity		56% RH	
Test Re	esult:		I	Pass						
Part 15C Class 1.0E+2-	ss B 1GHz-18GHz	-2								
90-			Mi Mil							
80-			Am.	THE COLOR						
70-				1						
60-				7						
			rw -	M _{M2}						
50-		M.		Mark Company						
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30- 20- 10- 2470 O. Fre	equency	Results		Limit	5 Frequency (MHz)		Table	Height		2500

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	Product:	Mı	ılti-Device	Wireless Ke	yboard	Det	ector		Vertical	
	Mode		Keeping	g Transmittin	g	Test V	/oltage		DC1.5V	
Γ	Cemperature		24	deg. C,		Hun	nidity		56% RH	
7	Test Result:			Pass		-				
C Part 1	15C Class B 1GHz-18GHz	-2								
2.02										
g	90-									
8	30-		M1							
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4 4 3 3 2 2 1 1	10	And the second s	Factor (dB)	2483.5 Fra	equency (MHz)				7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ī
. 5 . 4 3 2 1	50	Results		2483.5 Fre	equency (MHz) Over Limit		Table	Height	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ī

Note: 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 -1.52dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

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9.0 20dB Bandwidth	Measurement				
Product: Multi-Device Wireless Keyboard Mode Keeping Transmitting Temperature 24 deg. C, Test Result: Pass		Test Mode:	Keep transmitting DC1.5V 56% RH PK		
		Test Voltage			
		Humidity			
		Detector			
20dB Bandwidth	1.208MHz				
Ŕ	Marker 1 [T1 ndB]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	ndB 20.00 dB		300 kHz		
10 dBm	BW 1.20841683 MF	Hz SWT	5 ms	Unit	dBm
10			▼1 [T1] –	5.35 dBm
				2.4017	
0	1		ndB	2	0.00 dB
		~~~	BW ▼ _{T1} [T	1.2084	
-10					3788 GHz
			V _{T2} [T		5.53 dBm
-20	T)		Ψ2	2.4026	4629 GHz
IMAX	7		Y		IMA
-30				\	
-40				V	
-50					
-60					
-70					
-80					
-90 Center 2.40	02 GHz 30	00 kHz/	<u> </u>	Sp	an 3 MHz
Date: 5.JU	L.2023 10:05:45			-	

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Product:	Multi-Device Wireless Keyboard			Test Mode:	Keep t	ransmitting
Mode	Keep	Keeping Transmitting		Test Voltage	D	C1.5V
Temperature	24 deg. C,				5% RH	
Test Result:	Pass		Detector		PK	
20dB Bandwidth	1.208MHz					
R.	Marker	1 [T1 ndB]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	ndB	20.00 dB	VBW			_
10 dBm	BW	1.20841683 MHz	SWI	5 ms	Unit	dBm
10				▼1 [T1	]	4.81 dBm A
0					2.43979	9259 GHz
		1		ndB	20041	0.00 dB
			~~	BW ▼ _{T1} [T	1.20841	1683 MHz 4.56 dBm
-10					2.43943	3788 GHz
				V _{T2} [T	1] -24	4.97 dBm
-20		Ţ <i>]</i>		<u>T</u> 2	2.44064	1629 GHz
IMAX		y				IMA
-30				+		
-40				\		
-40						
-50	/					<b>\</b>
						Man
-60						<u> </u>
-70						
-80						
-90	4.4 GH	200	1-11- /			
Center 2			kHz/		Spa	an 3 MHz
Date: 5.	.JUL.2023 10	:09:33				

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Product:	Multi-Device Wireless Keyboard			Test Mode:	Keep transmitting		
Mode	Keeping Transmitting			Test Voltage DC1.5V		C1.5V	
Temperature	24 deg. C,		Humidity	50	5% RH		
Test Result:	Pass		Detector				
20dB Bandwidth	1.208MHz						
(R)	Marker	1 [T1 ndB]	RBW	100 kHz	RF Att	20 dB	
Ref Lvl	ndB	20.00 dB	VBW	300 kHz			
10 dBm	BW	1.20841683 MHz	SWI	5 ms	Unit	dBm	
10				<b>▼</b> 1 [T1	.]	4.25 dBm	A
					2.47978	3056 GHz	A
0		1		ndB	20	0.00 dB	
				BW ▼ _T 1 [T	1.20841		
-10			_	V1 11	2.47943	3186 GHz	
				<b>∇</b> Ţ2 [1	2.4754.	4.15 dBm	
-20		r/		<u>T2</u>	2.48064	1028 GHz	
1MAX		7		l V		1	LMA
-30					\		
-40							
-40							
-50						My My	
-60						****	
-70							
-80							
-90							
Center 2	.48 GHz	300	kHz/		Spa	an 3 MHz	
Date: 5.	JUL.2023 10:	25:27					

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#### 10.0 FCC ID Label

#### FCC ID: ZJEST-BK606

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 - N/A



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

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Outside View





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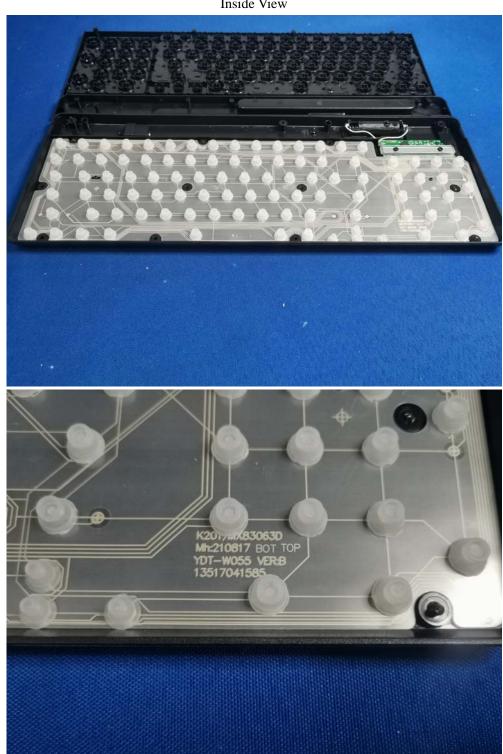
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Inside View



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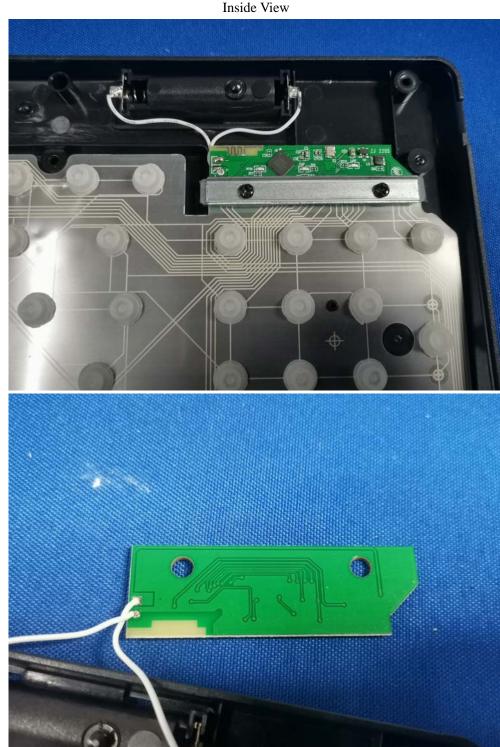
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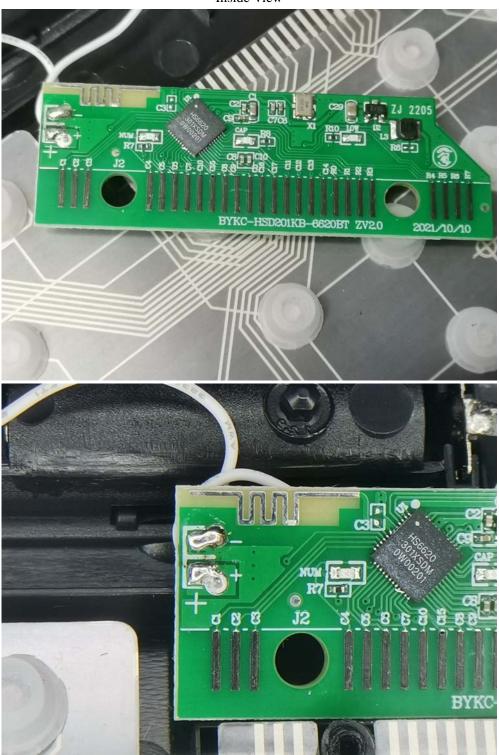
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Inside View



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