



Report No.: TW2208057E

File reference No.: 2022-08-29

Applicant: Shenzhen SQT Electronics Co.,Ltd

Product: Wired+Bluetooth Charging Keyboard

Model No.: SK-658BTW

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

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

Terry Tang

Manager

Dated: August 29, 2022

**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:

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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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: Shenzhen SQT Electronics Co.,Ltd
Address: ZhengChengFeng TechnologyZone Xinsha Road,ShaYi Village, Sha jing Town, Baoan Area, Shenzhen, China
Telephone: 0755-27568078
Fax: 0755-27568223

1.3 Description of EUT

Product:	Wired+Bluetooth Charging Keyboard
Manufacturer:	Shenzhen SQT Electronics Co.,Ltd
Address:	ZhengChengFeng TechnologyZone Xinsha Road,ShaYi Village, Sha jing Town, Baoan Area, Shenzhen, China
Trademark:	N/A
Model Number:	SK-658BTW
Additional Model Name	N/A
Rating:	Input: DC3.7V, 0.01A
Battery:	DC3.7V, 180mAh Li-ion battery
Modulation Type:	GFSK
Operation Frequency:	2402-2480MHz
Channel Number:	79
Channel Separation:	1MHz
Hardware Version:	BCM20730
Software Version:	SK658_BT-YX_F13F15_MOFII_Phoenix_BT_30min_V1.5_CRC_03163348
Serial No.:	SK658BTC20120061
Antenna Designation	PCB antenna with gain -0.61dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2022-08-04 to 2022-08-29

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

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	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
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	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
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	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2022-07-15	2023-07-14
RF Cable	Zhengdi	7m	--	2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

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

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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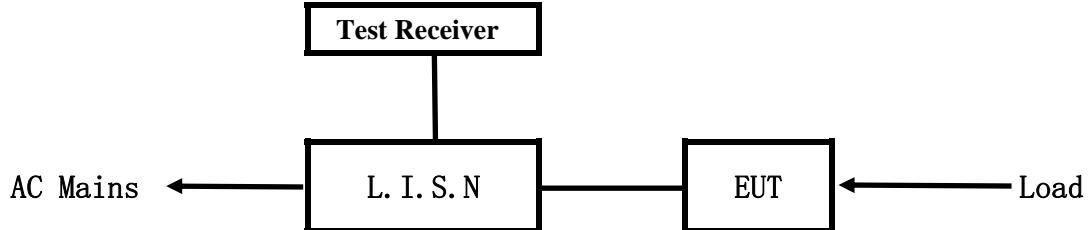
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



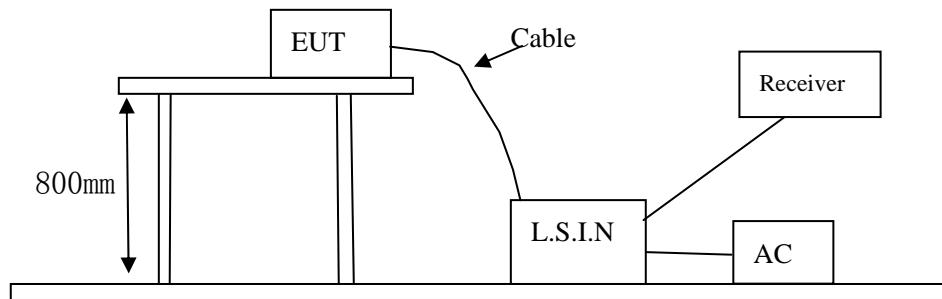
EUT: Equipment Under Test

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.

79 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
Wired+Bluetooth Charging Keyboard	Shenzhen SQT Electronics Co.,Ltd	SK-658BT W	WOX-SK-658BTW

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B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	KEYU	KA23-0502000DEU	Input: 100-240V~, 50/60Hz, 0.35A; Output: DC5V, 2A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2014

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

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (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:

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

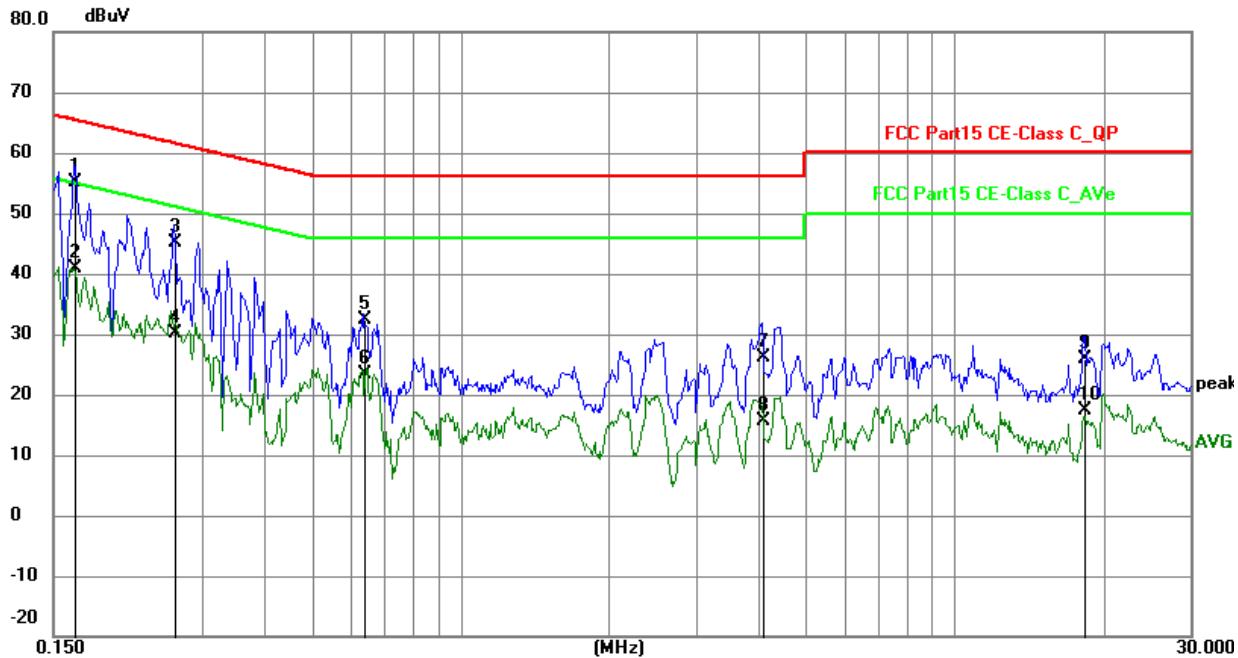
EUT Operating Environment

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	0.1655	45.26	9.77	55.03	65.18	-10.15	QP	P
2	0.1655	31.23	9.77	41.00	55.18	-14.18	AVG	P
3	0.2631	35.26	9.75	45.01	61.33	-16.32	QP	P
4	0.2631	20.35	9.75	30.10	51.33	-21.23	AVG	P
5	0.6375	22.68	9.78	32.46	56.00	-23.54	QP	P
6	0.6375	13.69	9.78	23.47	46.00	-22.53	AVG	P
7	4.0764	16.32	9.89	26.21	56.00	-29.79	QP	P
8	4.0764	5.64	9.89	15.53	46.00	-30.47	AVG	P
9	18.3270	15.32	10.58	25.90	60.00	-34.10	QP	P
10	18.3270	6.84	10.58	17.42	50.00	-32.58	AVG	P

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

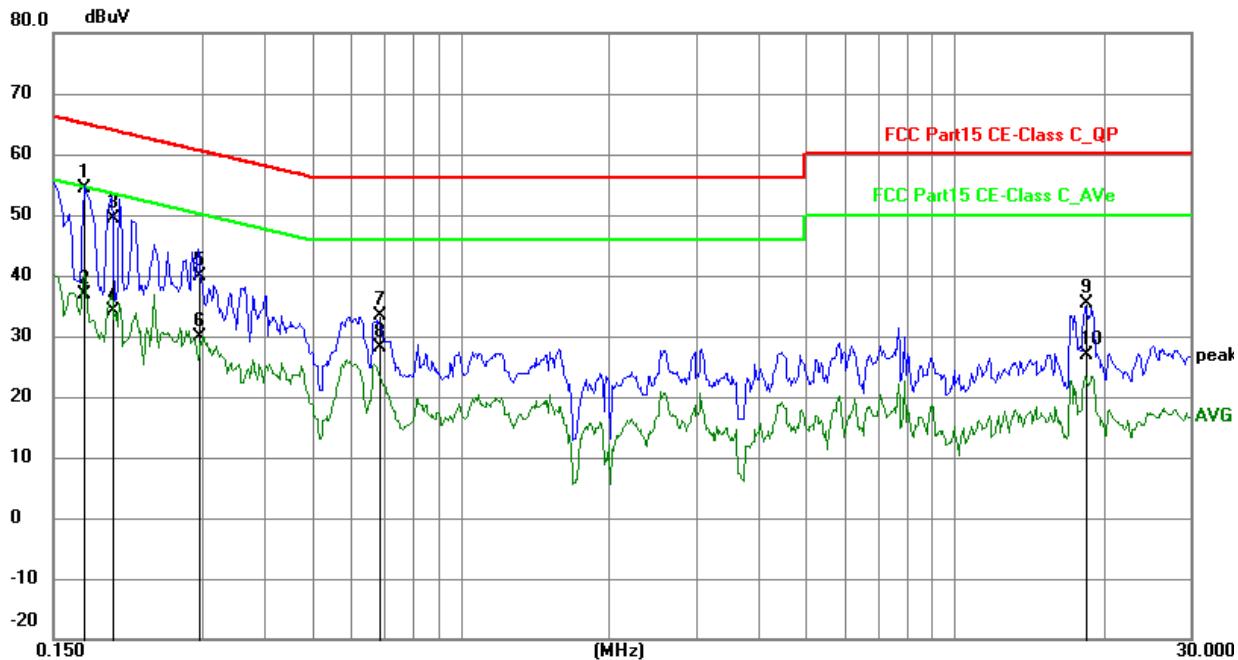
EUT Operating Environment

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	0.1726	44.68	9.77	54.45	64.83	-10.38	QP	P
2	0.1726	27.16	9.77	36.93	54.83	-17.90	AVG	P
3	0.1968	39.61	9.75	49.36	63.74	-14.38	QP	P
4	0.1968	24.38	9.75	34.13	53.74	-19.61	AVG	P
5	0.2943	30.01	9.76	39.77	60.40	-20.63	QP	P
6	0.2943	20.22	9.76	29.98	50.40	-20.42	AVG	P
7	0.6843	23.65	9.78	33.43	56.00	-22.57	QP	P
8	0.6843	18.36	9.78	28.14	46.00	-17.86	AVG	P
9	18.4516	24.87	10.59	35.46	60.00	-24.54	QP	P
10	18.4516	16.35	10.59	26.94	50.00	-23.06	AVG	P

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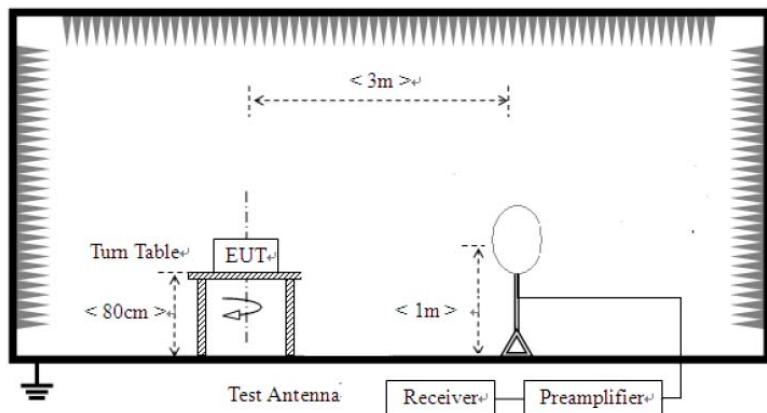
6 Radiated Emission Test

6.1 Test Method and test Procedure:

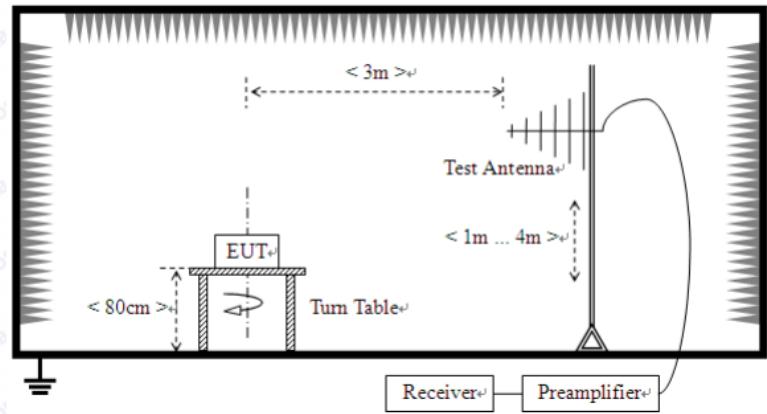
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All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

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to1GHz



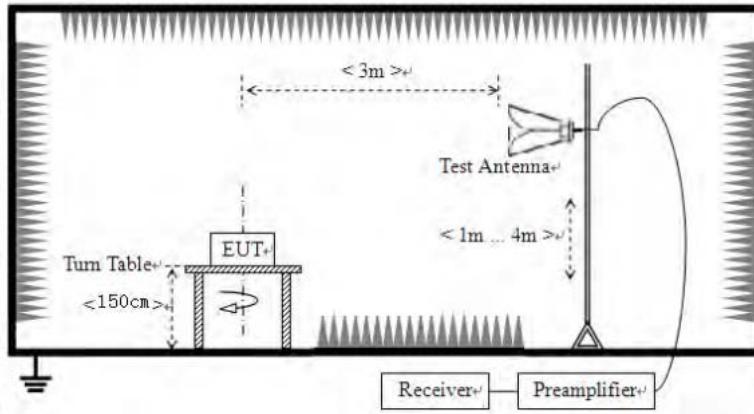
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For radiated emissions above 1GHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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

Note: 1. RF Field Strength (dBuV) = $20 \log \text{RF Voltage (uV)}$

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.

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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	$20\log(2400/F(\text{kHz})) + 40\log(300/3)$
0.490-1.705	3	$20\log(24000/F(\text{kHz})) + 40\log(30/3)$
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) = $20 \log \text{RF Voltage (uV)}$
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. 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.

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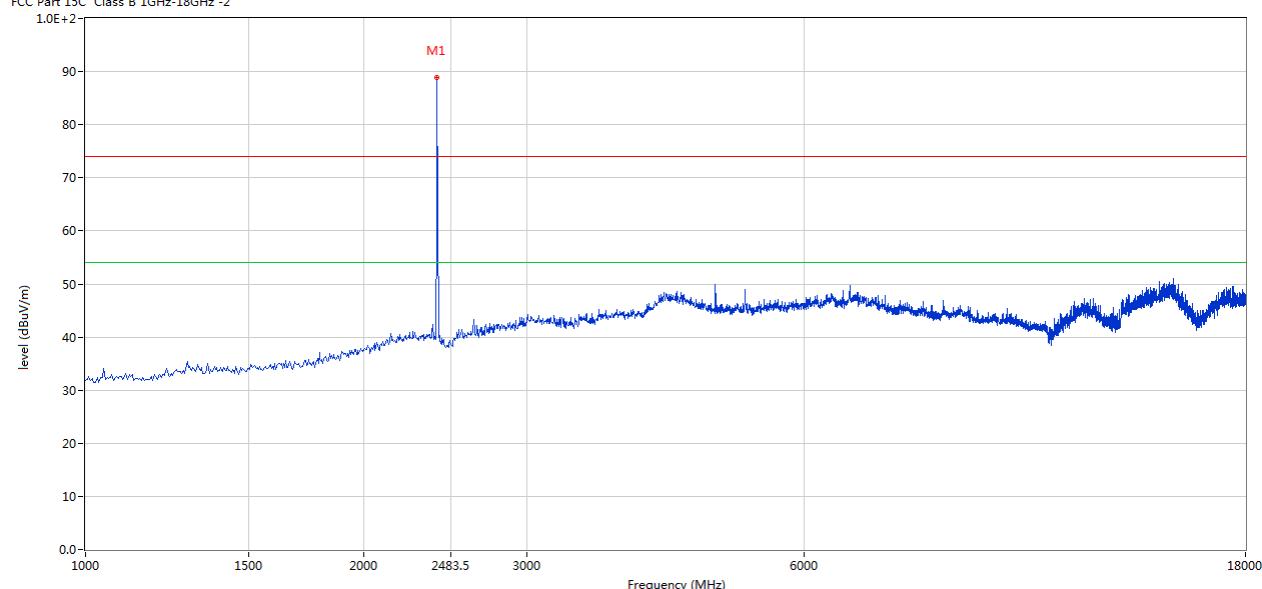
6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

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

Horizontal

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	88.93	-3.57	114.0	-25.07	Peak	131.00	100	Horizontal	Pass

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

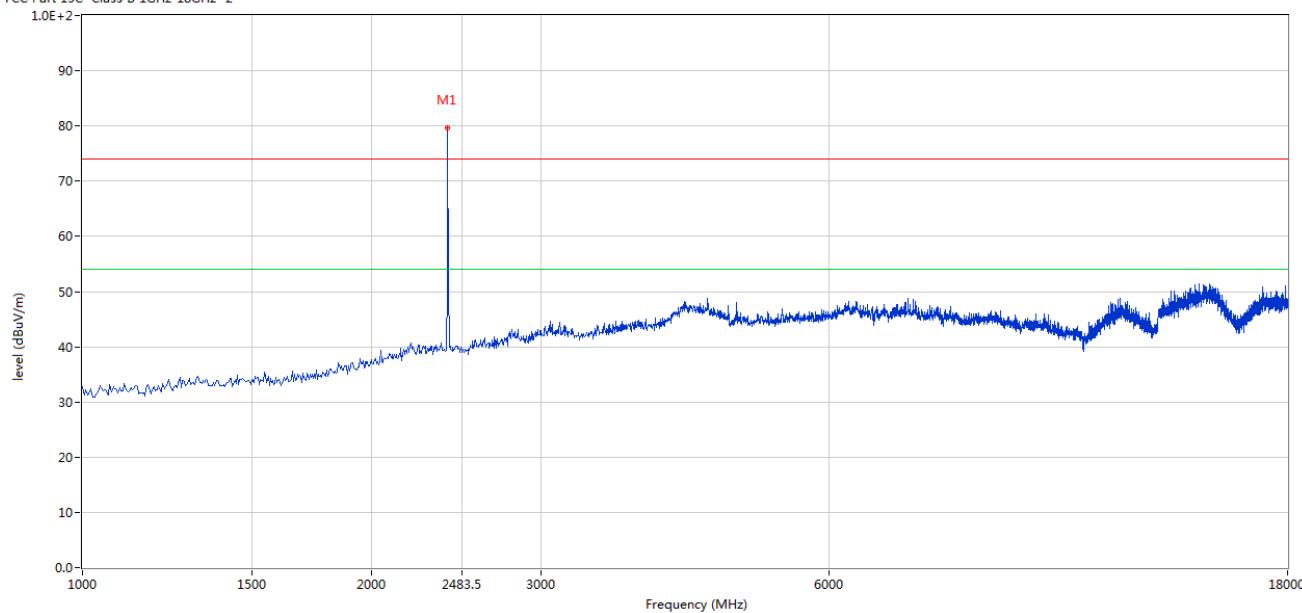
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Vertical

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	79.60	-3.57	114.0	-34.40	Peak	33.00	100	Vertical	Pass

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

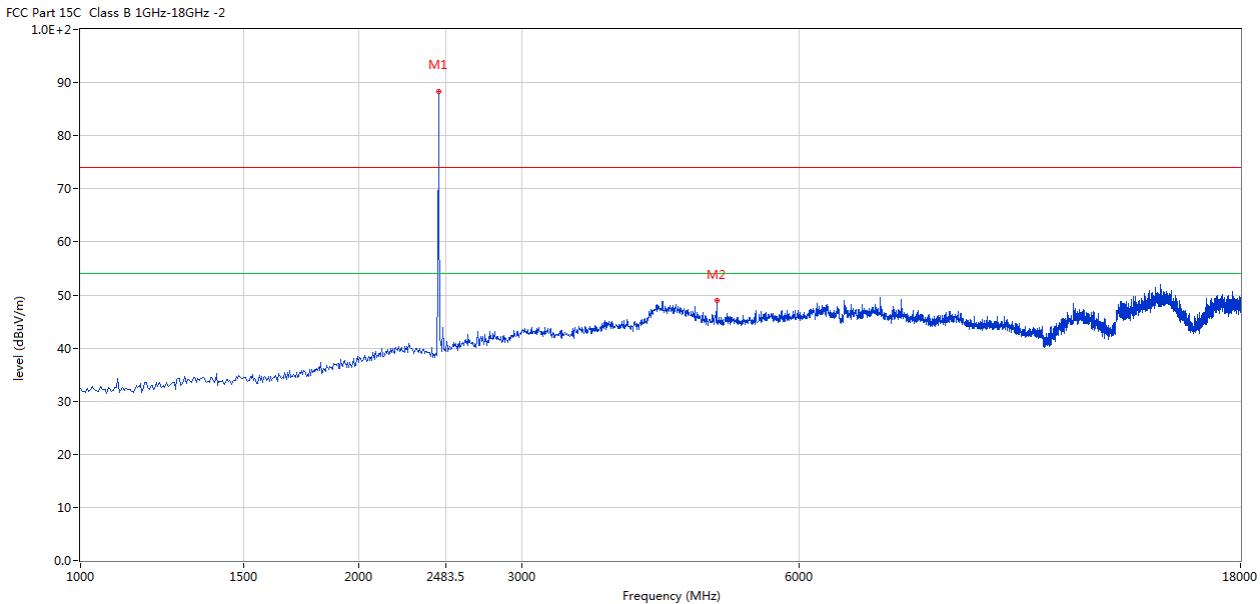
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	88.37	-3.57	114.0	-25.63	Peak	134.00	100	Horizontal	Pass
2	4883.529	48.93	3.20	74.0	-25.07	Peak	89.00	100	Horizontal	Pass

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

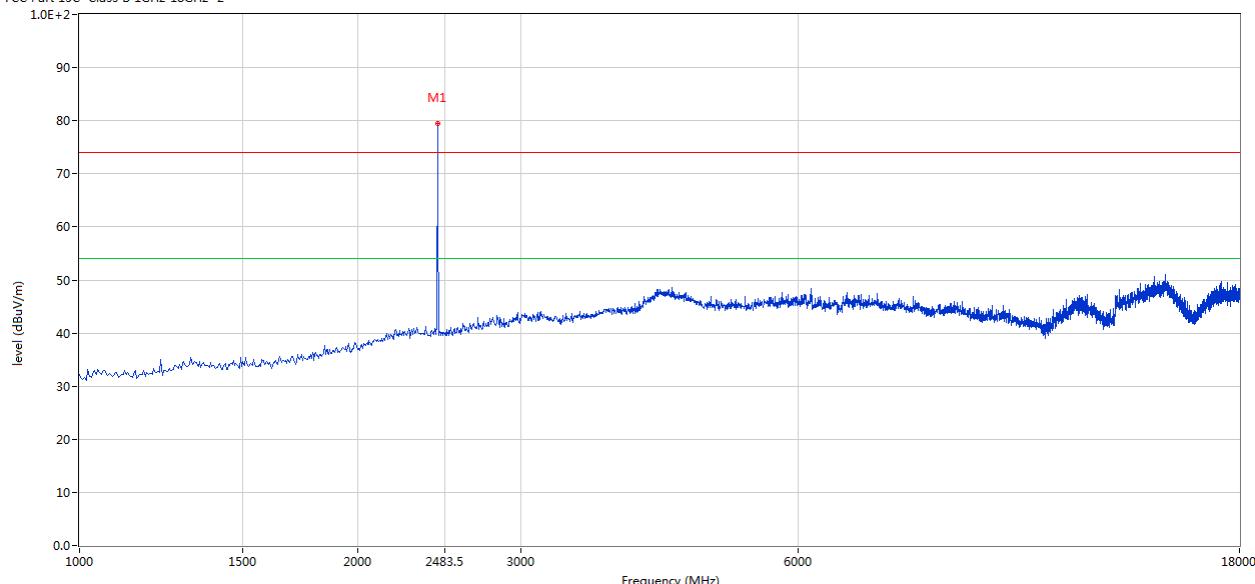
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Vertical

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	79.38	-3.57	114.0	-34.62	Peak	32.00	100	Vertical	Pass

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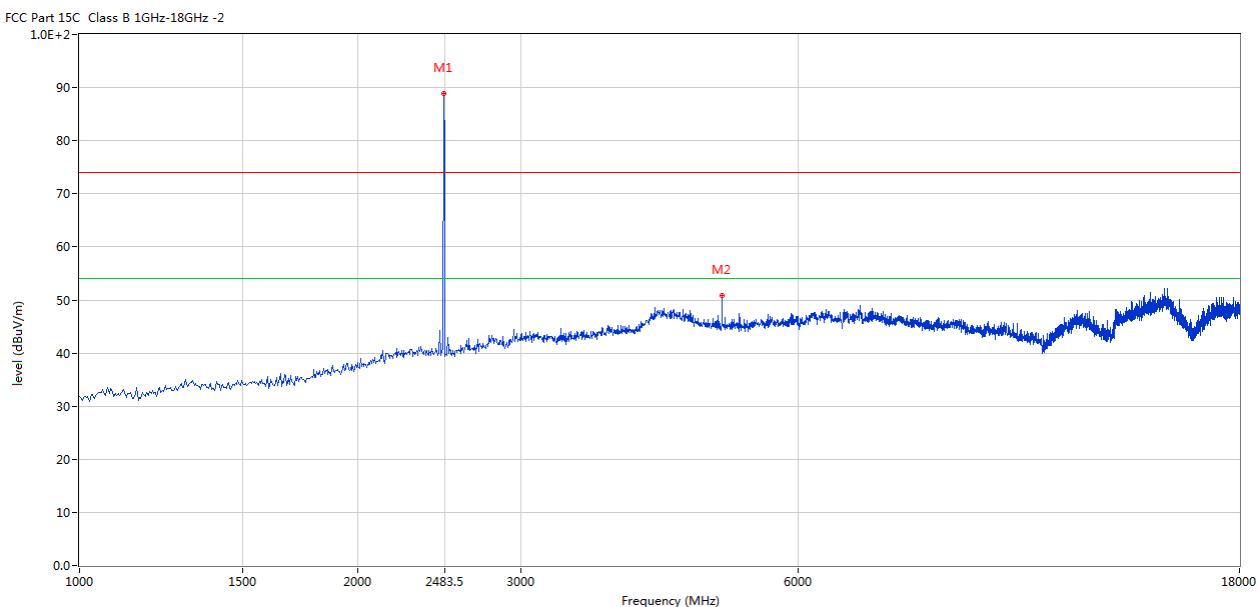
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Please refer to the following test plots for details: High Channel-2480MHz

Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	88.88	-3.57	114.0	-25.12	Peak	136.00	100	Horizontal	Pass
2	4960.010	50.78	3.36	74.0	-23.22	Peak	120.00	100	Horizontal	Pass

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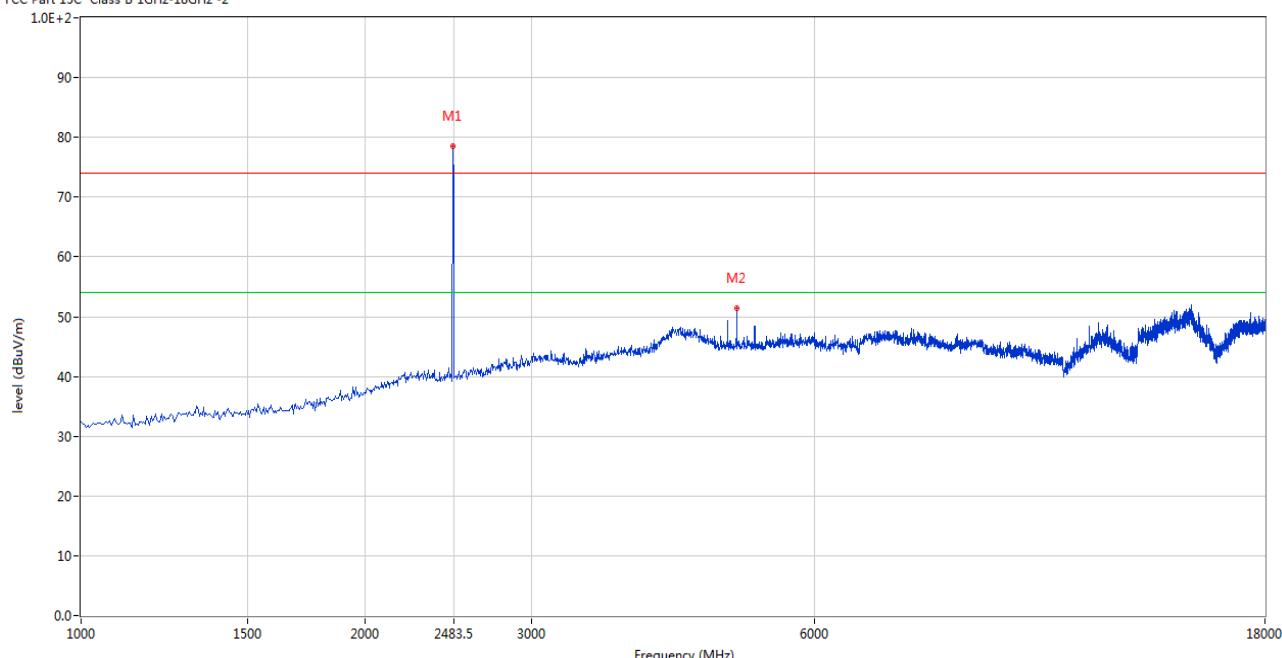
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Vertical

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	78.45	-3.57	114.0	-35.55	Peak	33.00	100	Vertical	Pass
2	4960.010	51.50	3.36	74.0	-22.50	Peak	359.00	100	Vertical	Pass

Note:

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

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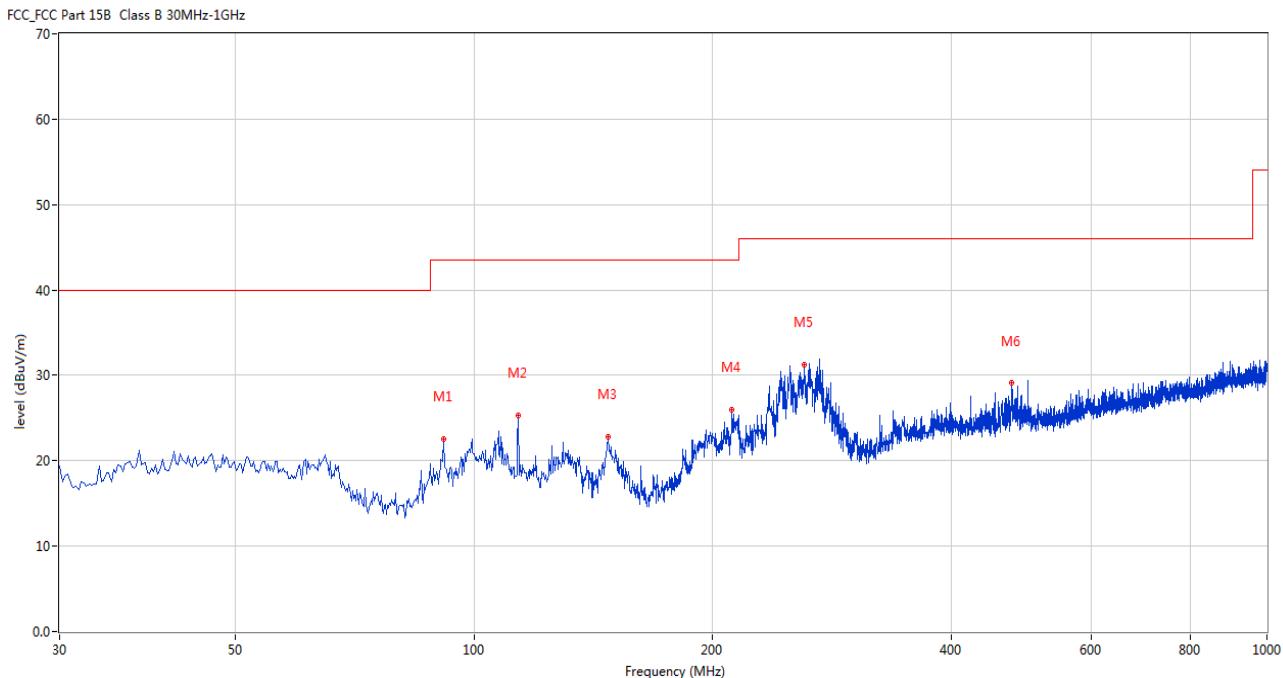
B. General Radiated Emission Data

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

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	91.580	22.58	-14.78	43.5	-20.92	Peak	218.00	200	Horizontal	Pass
2	113.642	25.32	-14.17	43.5	-18.18	Peak	180.00	200	Horizontal	Pass
3	147.583	22.83	-17.20	43.5	-20.67	Peak	273.00	200	Horizontal	Pass
4	211.587	25.99	-13.68	43.5	-17.51	Peak	210.00	200	Horizontal	Pass
5	260.560	31.27	-11.84	46.0	-14.73	Peak	249.00	100	Horizontal	Pass
6	476.816	29.07	-7.46	46.0	-16.93	Peak	89.00	100	Horizontal	Pass

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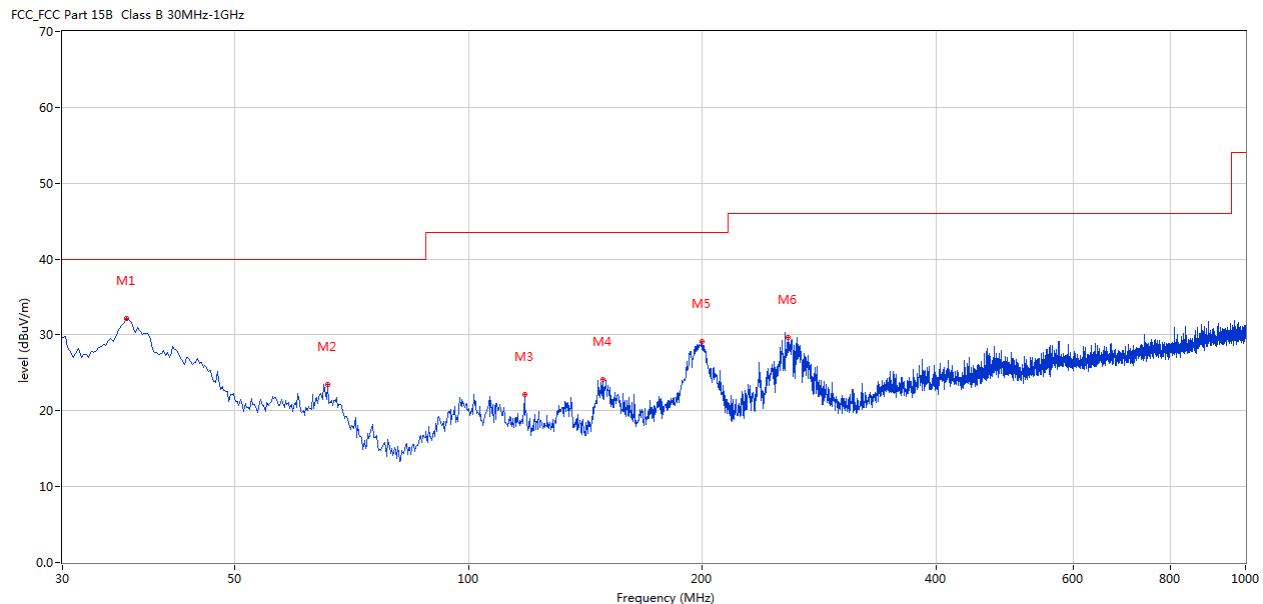


Radiated Emission In Vertical (30MHz----1000MHz)

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)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	36.303	32.20	-13.57	40.0	-7.80	Peak	336.00	100	Vertical	Pass
2	65.881	23.47	-13.87	40.0	-16.53	Peak	257.00	100	Vertical	Pass
3	118.005	22.12	-14.93	43.5	-21.38	Peak	285.00	200	Vertical	Pass
4	149.038	24.18	-17.11	43.5	-19.32	Peak	251.00	100	Vertical	Pass
5	199.708	29.20	-13.47	43.5	-14.30	Peak	23.00	100	Vertical	Pass
6	258.135	29.64	-11.85	46.0	-16.36	Peak	330.00	200	Vertical	Pass

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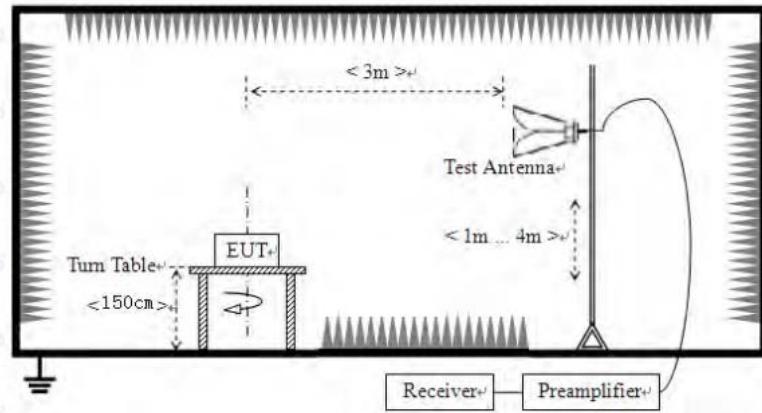


7. Band Edge

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 height 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:	Wired+Bluetooth Charging 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	2402.007	88.89	-3.57	74.0	14.89	Peak	128.00	100	Horizontal	N/A		
2	2400.042	65.52	-3.57	74.0	-8.48	Peak	128.00	100	Horizontal	Pass		
2**	2400.042	49.71	-3.57	54.0	-4.29	AV	128.00	100	Horizontal	Pass		
3	2390.115	38.90	-3.53	74.0	-35.10	Peak	108.00	100	Horizontal	Pass		

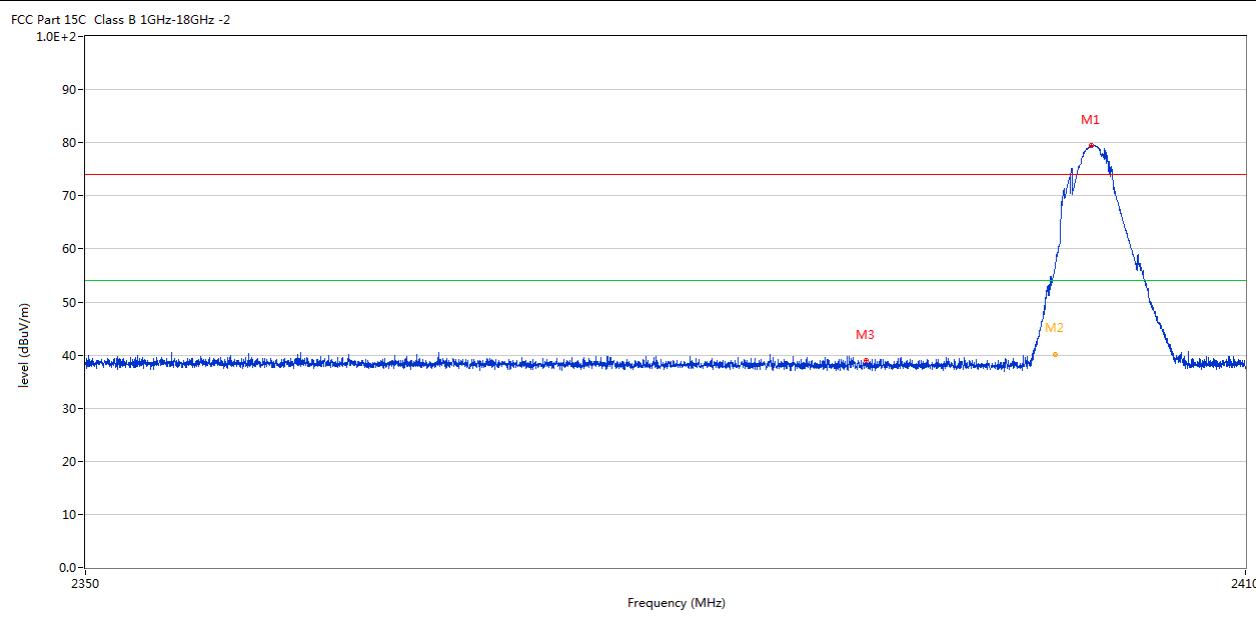
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Product:	Wired+Bluetooth Charging Keyboard	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2401.947	79.40	-3.57	74.0	5.40	Peak	178.00	100	Vertical	N/A
2	2400.042	56.31	-3.57	74.0	-17.69	Peak	178.00	100	Vertical	Pass
2**	2400.042	40.10	-3.57	54.0	-13.90	AV	178.00	100	Vertical	Pass
3	2390.190	38.97	-3.53	74.0	-35.03	Peak	238.00	100	Vertical	Pass

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

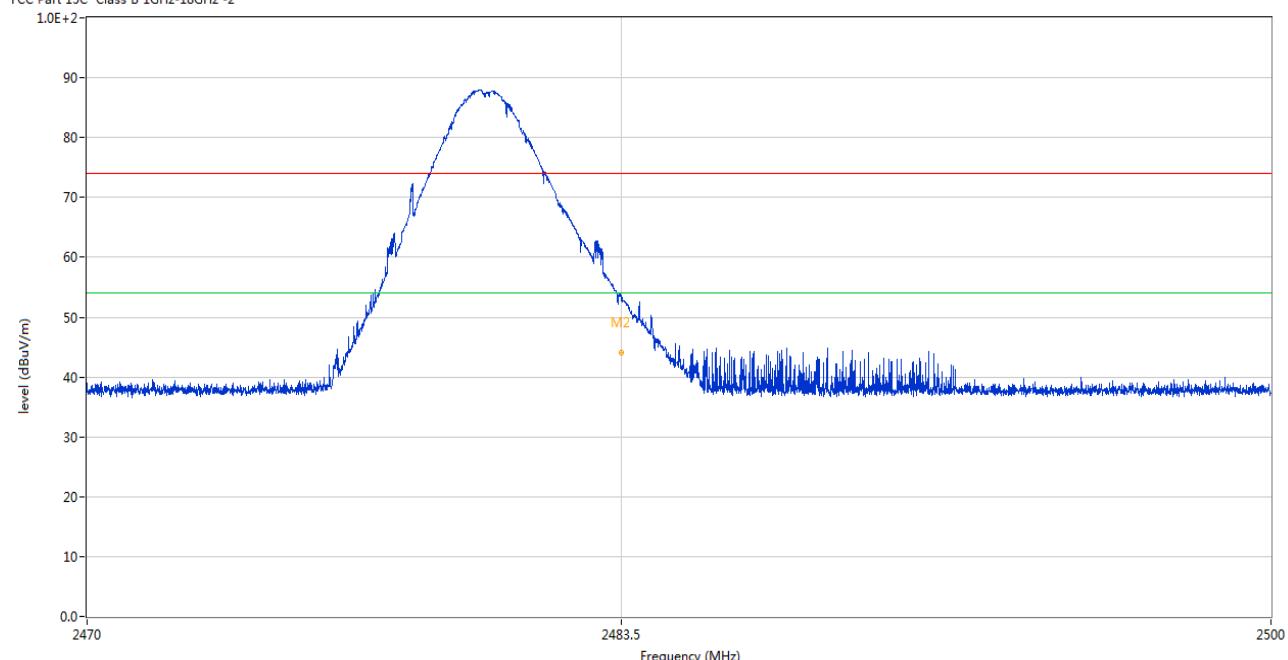
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Product:	Wired+Bluetooth Charging Keyboard	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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	2479.943	87.92	-3.57	74.0	13.92	Peak	134.00	100	Horizontal	N/A
2	2483.497	53.51	-3.57	74.0	-20.49	Peak	134.00	100	Horizontal	Pass
2**	2483.497	44.02	-3.57	54.0	-9.98	AV	134.00	100	Horizontal	Pass

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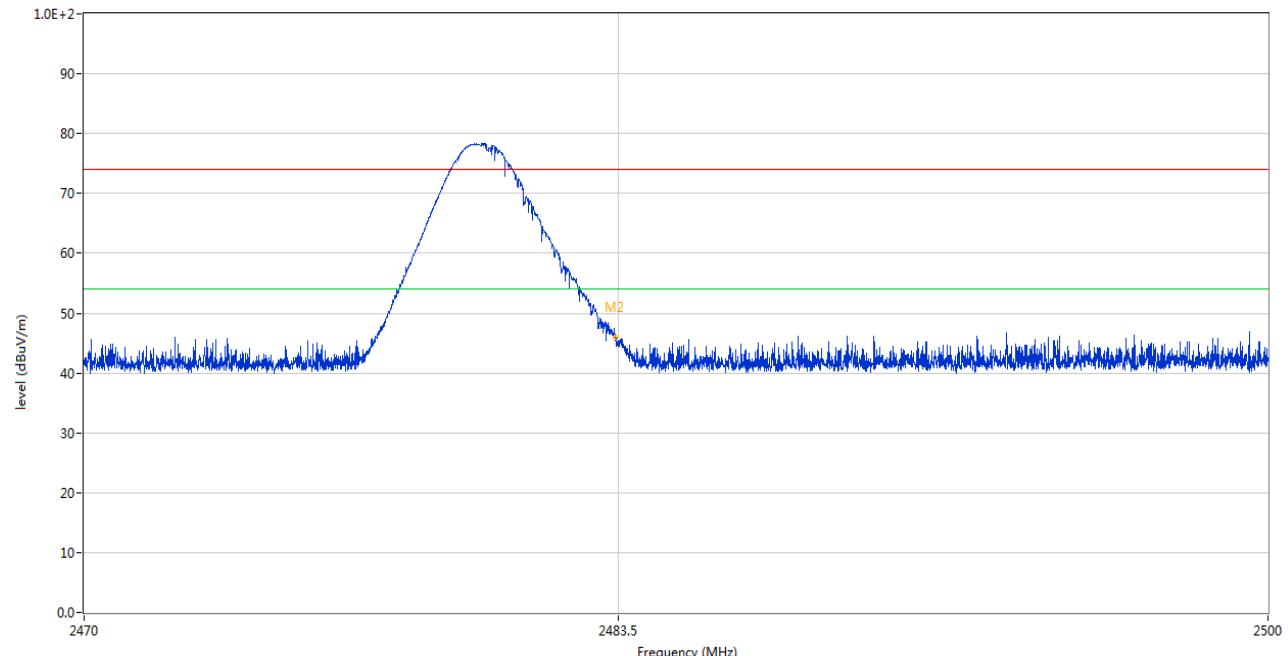
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Product:	Wired+Bluetooth Charging Keyboard	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

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	2480.122	78.34	-3.57	74.0	4.34	Peak	179.00	100	Vertical	N/A
2	2483.422	45.96	-3.57	74.0	-28.04	Peak	122.00	100	Vertical	Pass

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

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8.0 Antenna Requirement

Applicable Standard

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

This product has an PCB antenna. The antenna gain is -0.61dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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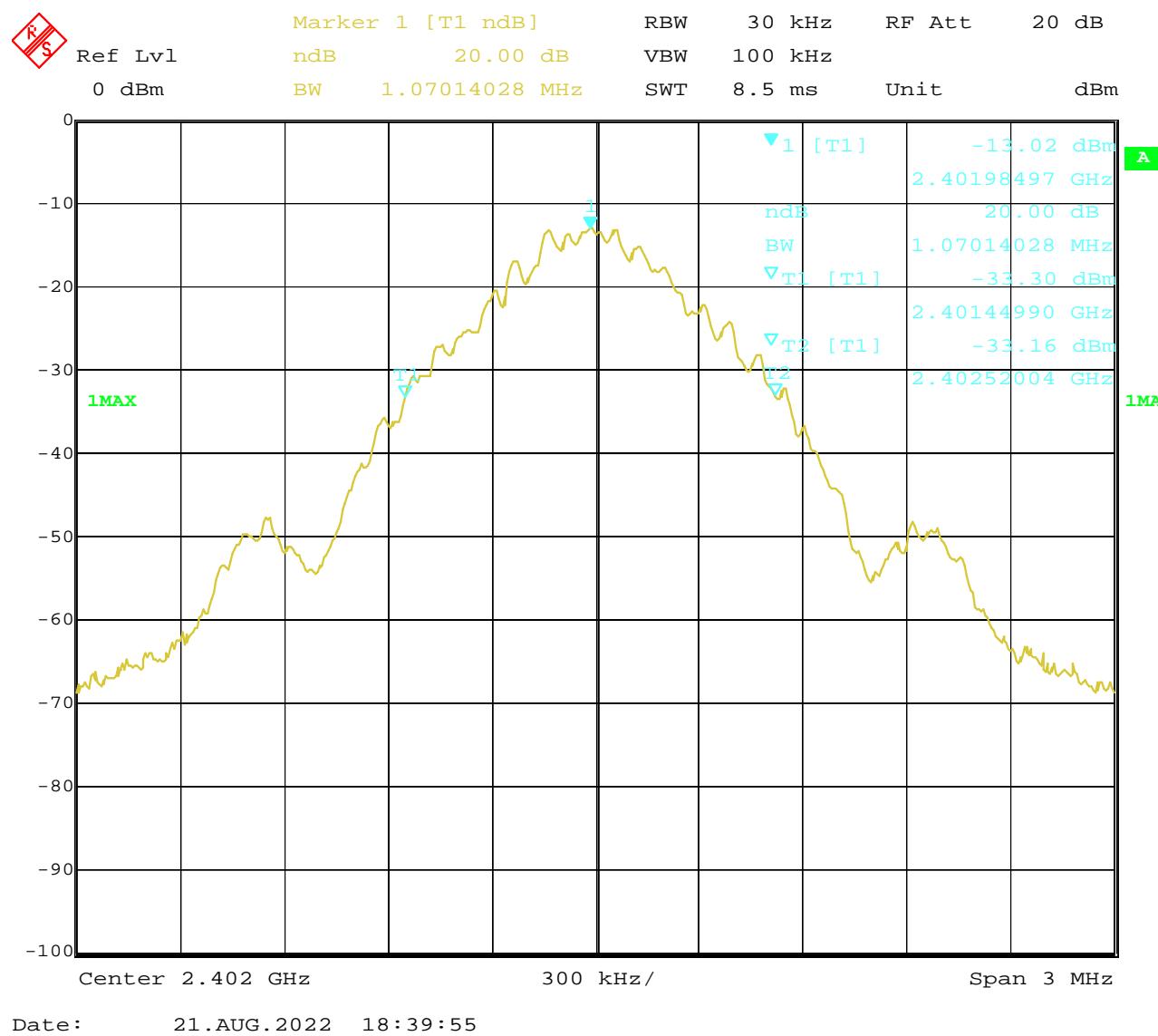
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9.0 20dB Bandwidth Measurement

Product:	Wired+Bluetooth Charging Keyboard	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.070MHz	--	--

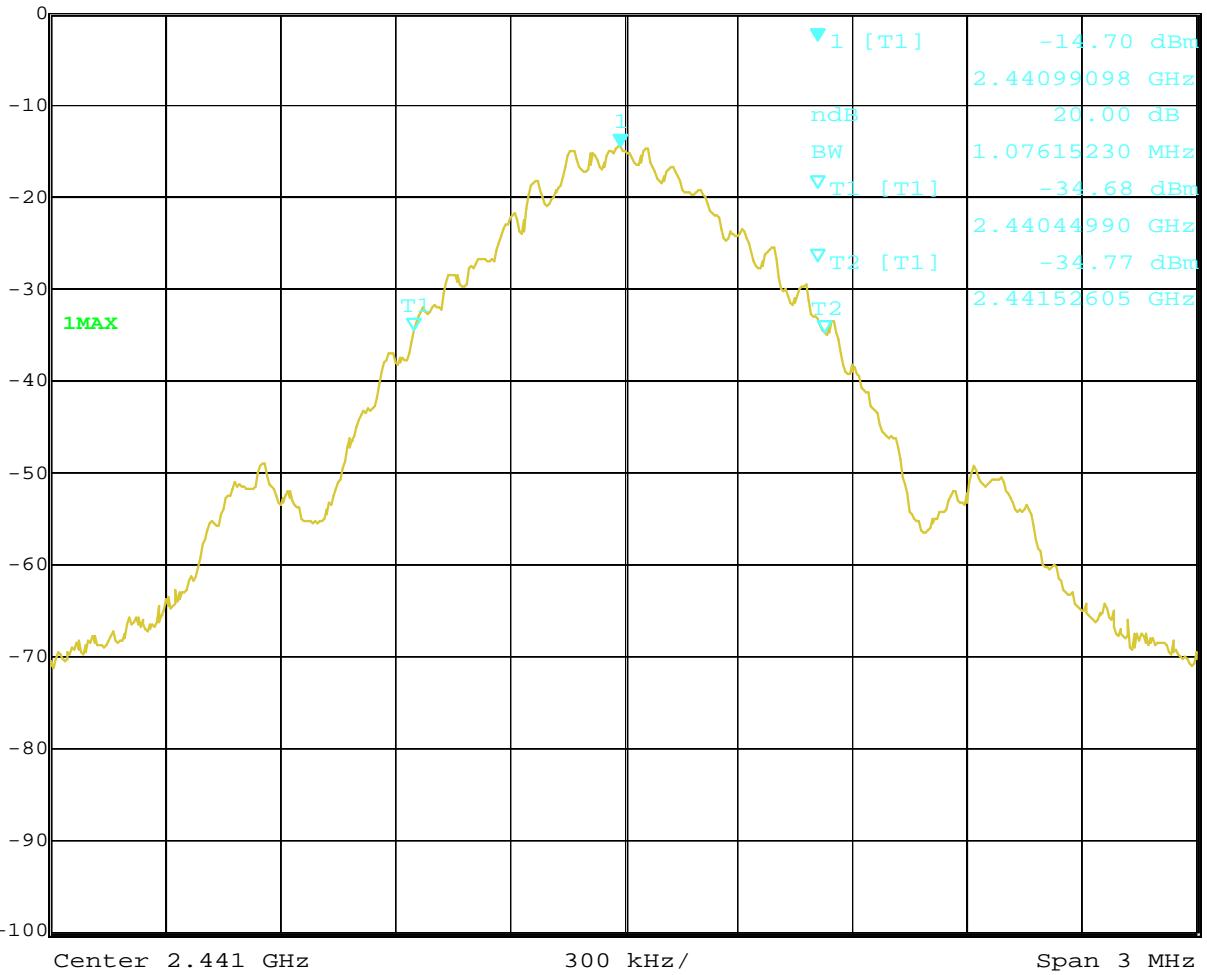


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Product:	Wired+Bluetooth Charging Keyboard	Test Mode:	Keep transmitting														
Mode	Keeping Transmitting		Test Voltage	DC3.7V													
Temperature	24 deg. C,		Humidity	56% RH													
Test Result:	Pass		Detector	PK													
20dB Bandwidth	1.076MHz		--	--													
 Ref Lvl <table> <tr> <td>Marker 1 [T1 ndB]</td> <td>RBW 30 kHz</td> <td>RF Att 20 dB</td> </tr> <tr> <td>ndB 20.00 dB</td> <td>VBW 100 kHz</td> <td></td> </tr> <tr> <td>0 dBm</td> <td>BW 1.07615230 MHz</td> <td>SWT 8.5 ms</td> </tr> <tr> <td></td> <td></td> <td>Unit dBm</td> </tr> </table>						Marker 1 [T1 ndB]	RBW 30 kHz	RF Att 20 dB	ndB 20.00 dB	VBW 100 kHz		0 dBm	BW 1.07615230 MHz	SWT 8.5 ms			Unit dBm
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ndB 20.00 dB	VBW 100 kHz																
0 dBm	BW 1.07615230 MHz	SWT 8.5 ms															
		Unit dBm															
 <p>The figure shows an RF spectrum plot with a yellow line representing the signal. The y-axis is labeled 'dBm' and ranges from 0 to -100. The x-axis is labeled 'GHz' and shows 'Center 2.441 GHz' and 'Span 3 MHz'. Two markers are indicated: T1 is at approximately 2.44099098 GHz with a value of -14.70 dBm, and T2 is at approximately 2.44152605 GHz with a value of -34.77 dBm. Other markers include 1MAX at -30 dBm and 1MA at -70 dBm. The plot shows a noisy signal with a peak around 2.441 GHz.</p>																	
Date: 21.AUG.2022 18:43:55																	

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

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Product:	Wired+Bluetooth Charging Keyboard	Test Mode:	Keep transmitting						
Mode	Keeping Transmitting		Test Voltage	DC3.7V					
Temperature	24 deg. C,		Humidity	56% RH					
Test Result:	Pass		Detector	PK					
20dB Bandwidth	1.046MHz		--	--					
Ref Lvl Marker 1 [T1 ndB] RBW 30 kHz RF Att 20 dB									
ndB 20.00 dB VBW 100 kHz									
0 dBm BW 1.04609218 MHz SWT 8.5 ms Unit dBm									
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> 1MAX 1MA </div>									
-10 -20 -30 -40 -50 -60 -70 -80 -90 -100									
Center 2.48 GHz 300 kHz/ Span 3 MHz									
Date: 21.AUG.2022 18:45:40									

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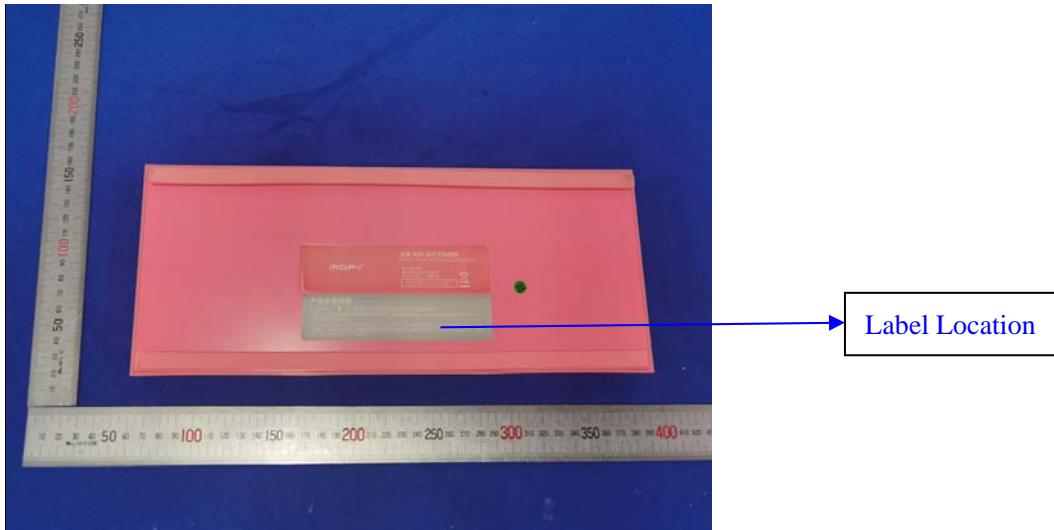
10.0 FCC ID Label

FCC ID: WOX-SK-658BTW

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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11.0 Photo of testing

11.1 Conducted test View--



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Radiated emission test view



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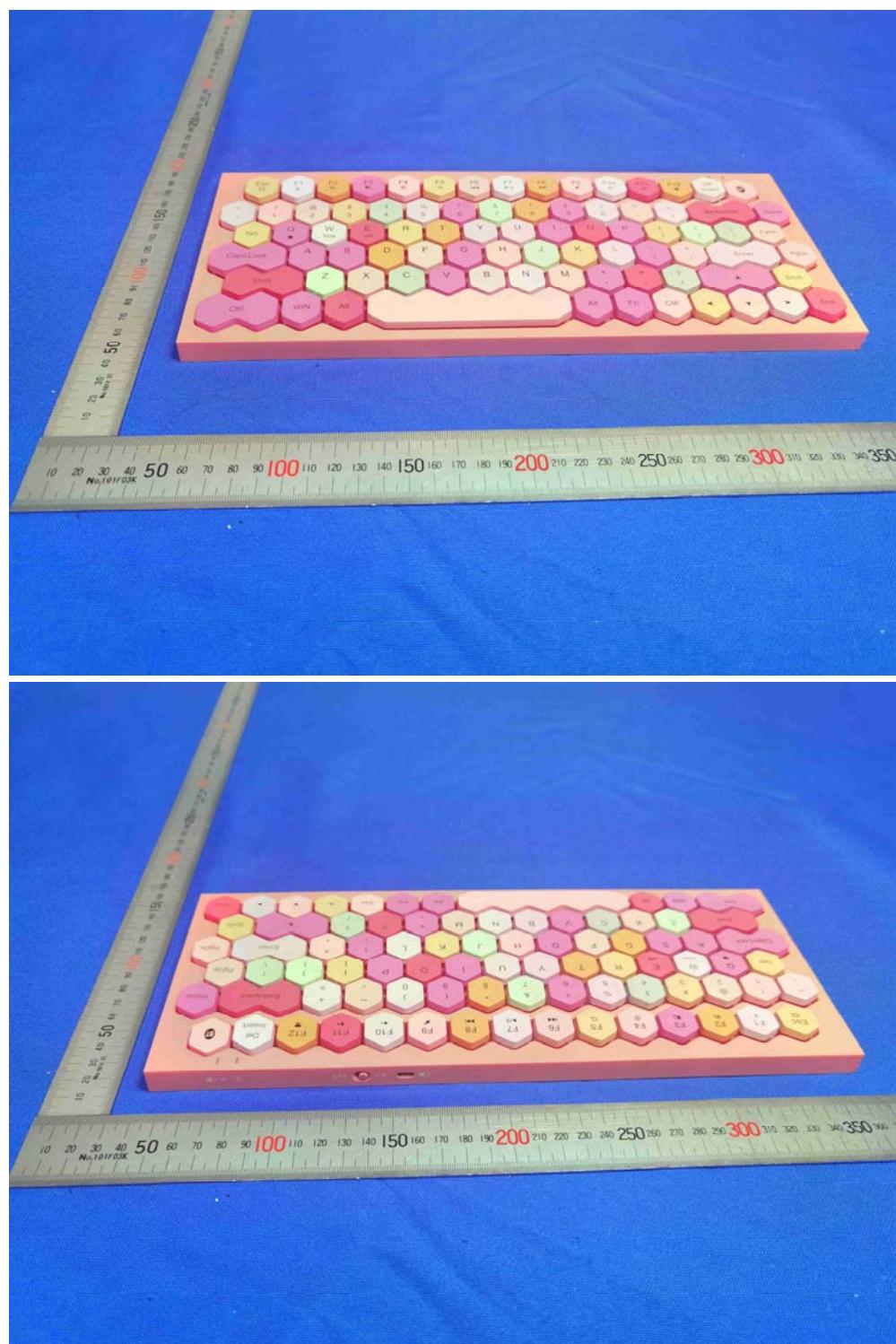
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11.2 Photographs – EUT

Outside View



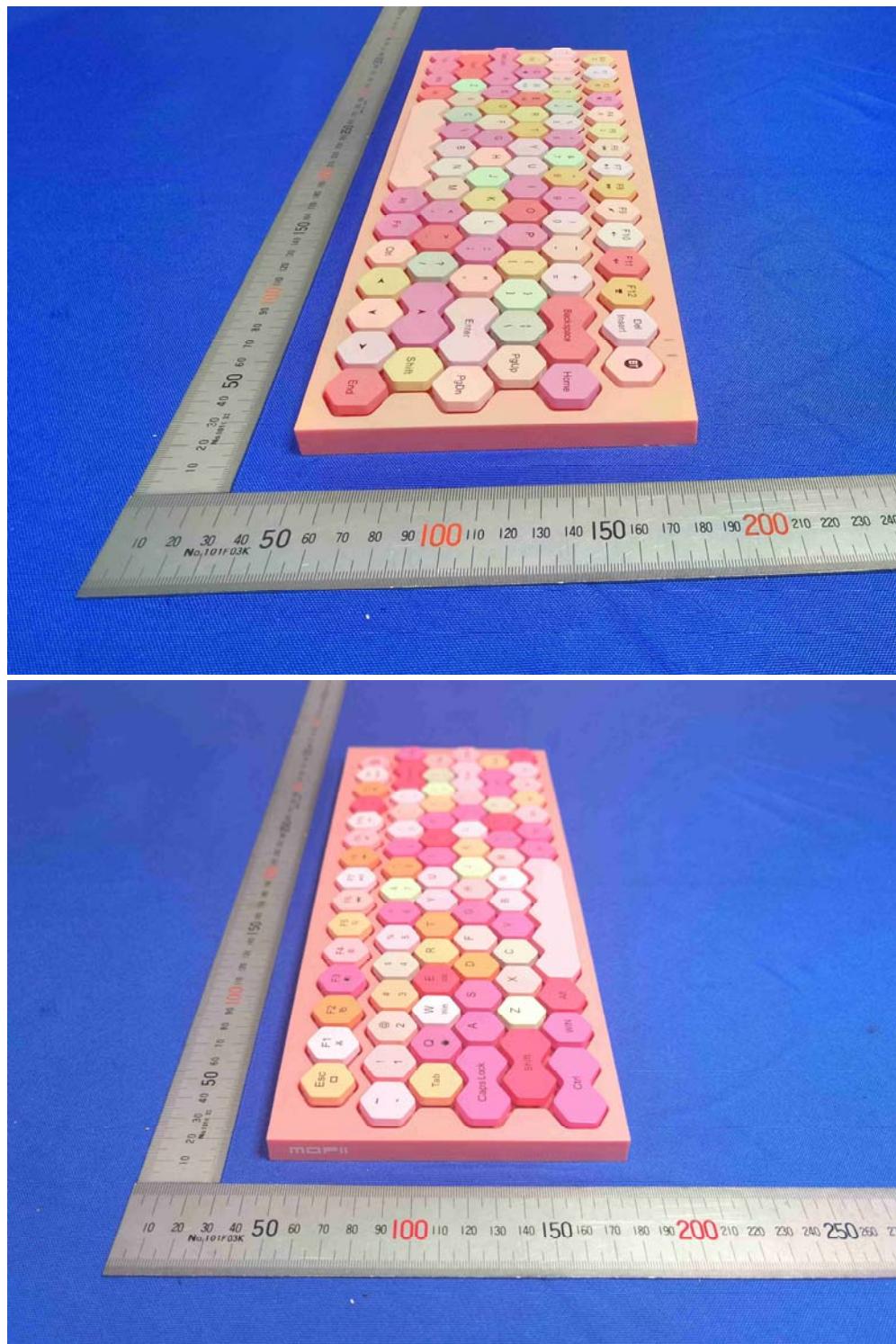
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Outside View



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Outside View



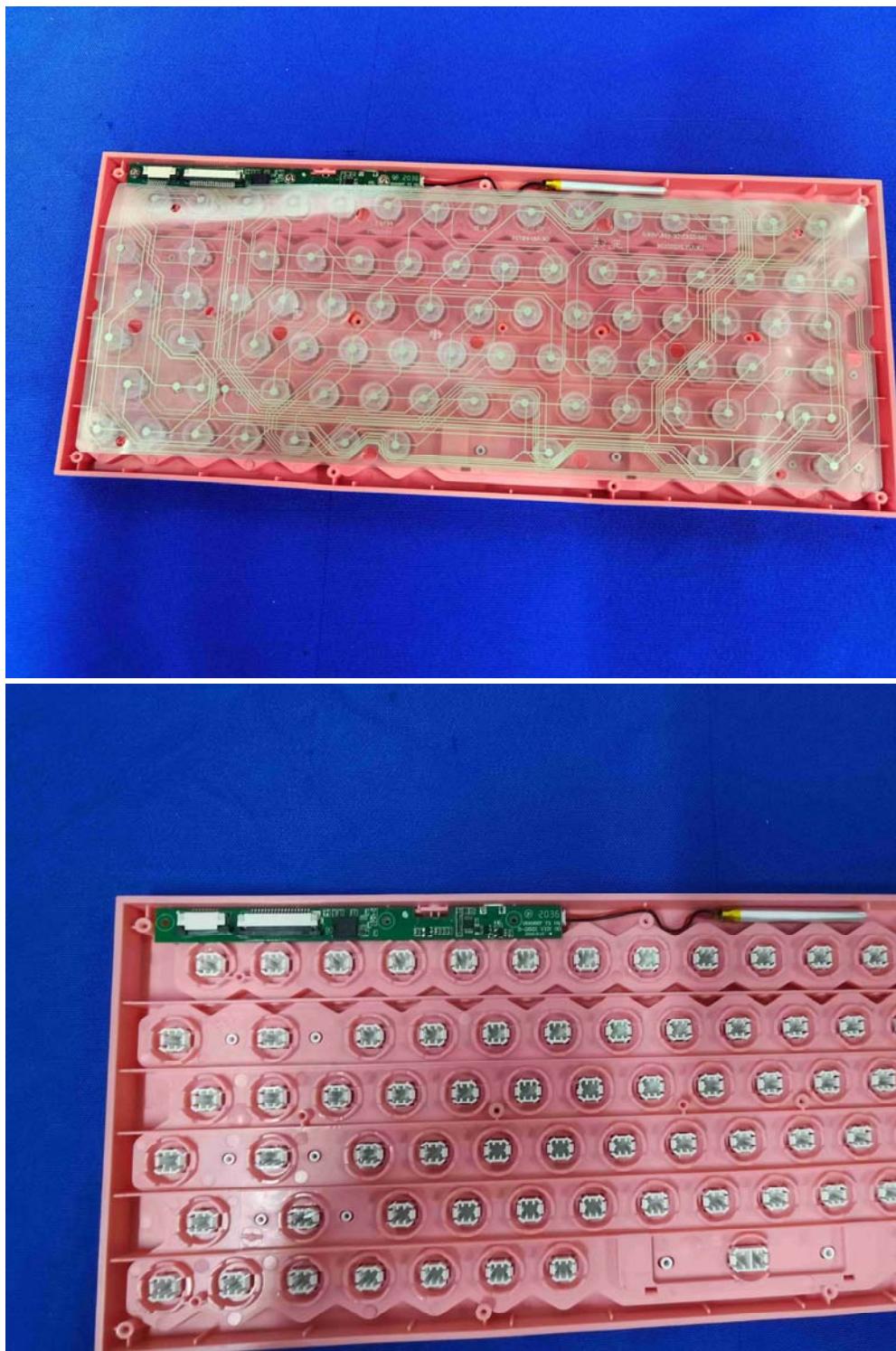
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Inside view



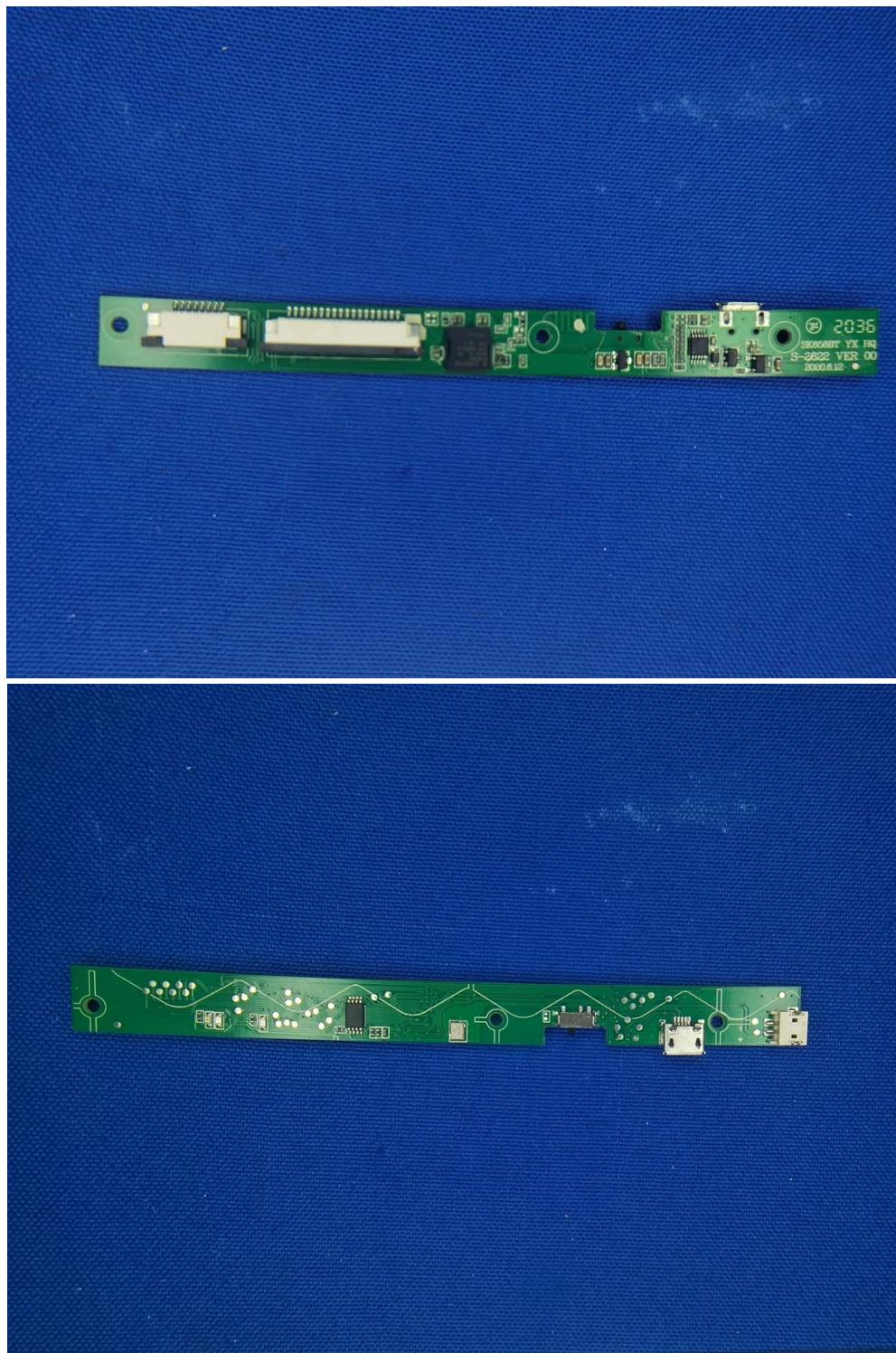
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Inside view



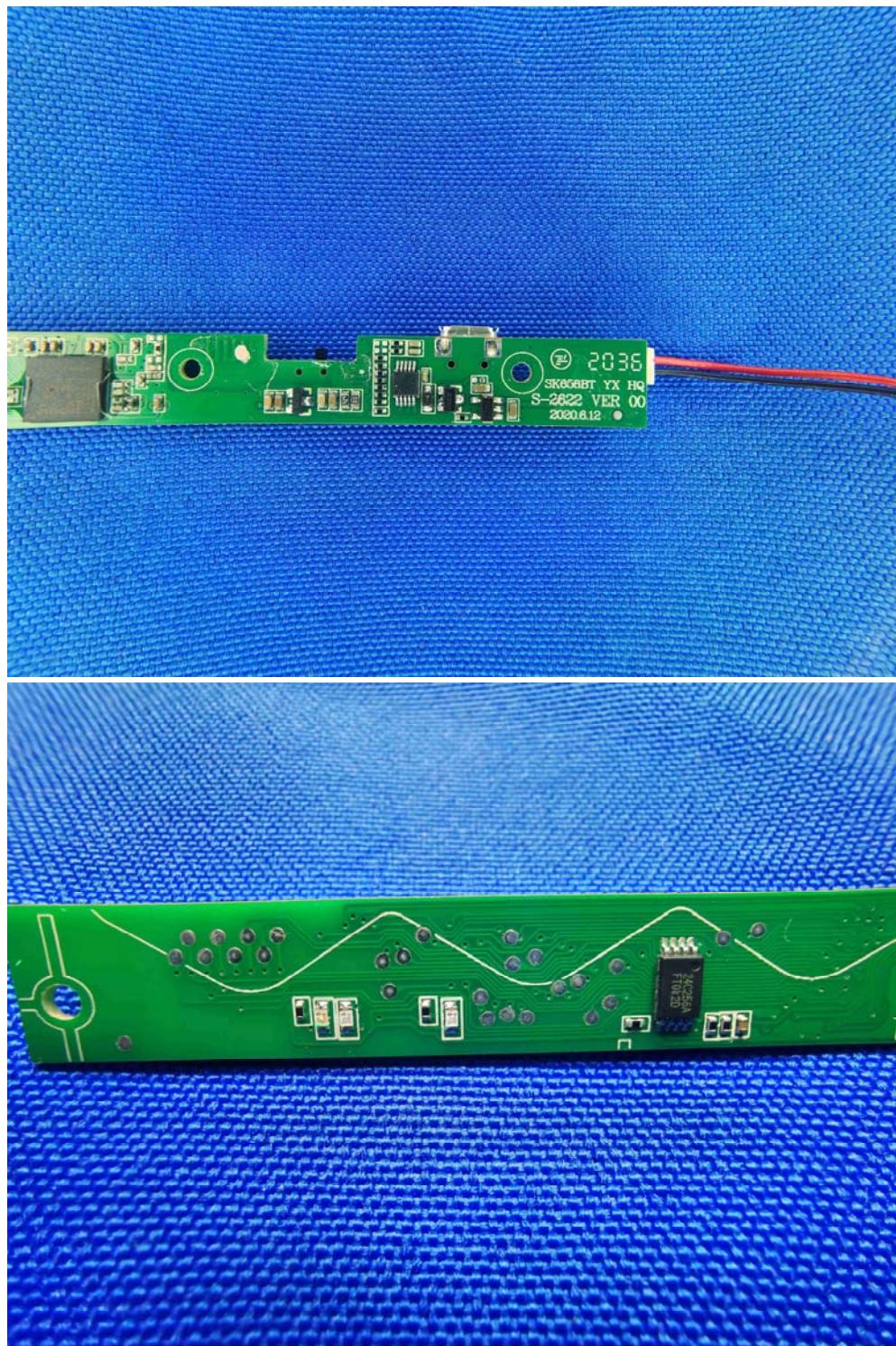
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Inside view



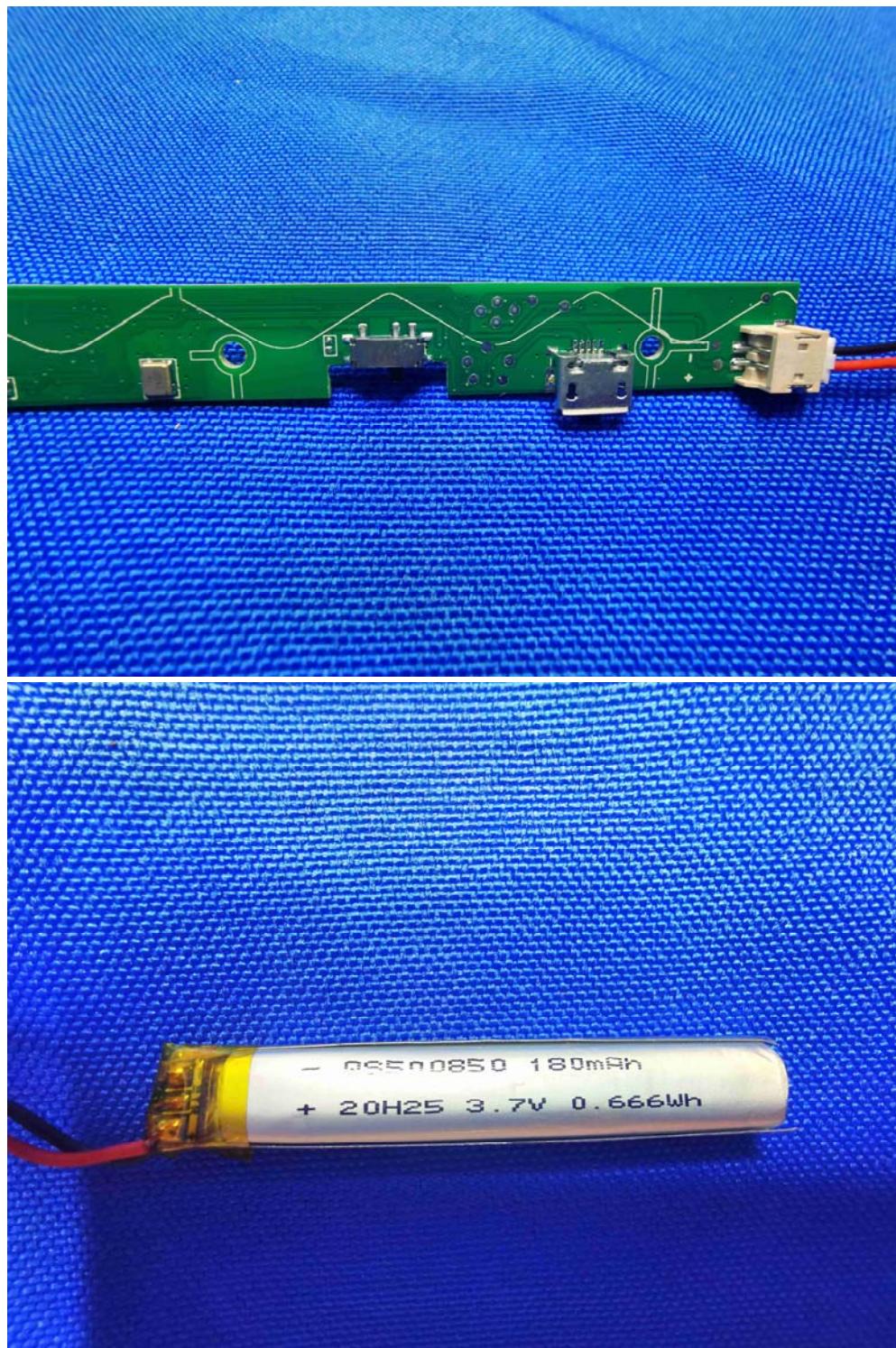
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Inside view



--End of the report--

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