



File reference No.: 2022-03-29

Applicant: Shenzhen SQT Electronics Co.,Ltd

Product: BT three-mode mechanical keyboard

Model No.: SK-653TM, K840T

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 Tong

Terry Tang

Manager

Dated: March 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

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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 17025:2005 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

Date: 2022-03-29



# 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 Sates

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: BT three-mode mechanical 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-653TM
Additional Model Name K840T
Rating: DC5.0V, 1A

Battery DC3.7V, 1500mAh Li-ion battery

Modulation Type: GFSK

Operation Frequency: 2403-2480MHz

Channel Number: 16

Channel List (Unit: MHz): 2403, 2426, 2441, 2463, 2407, 2422, 2445, 2466, 2414, 2436, 2459, 2473, 2419,

2439, 2453, 2480

Hardware Version: BY901+BK3632

Software Version: 901 SQT SK-653 three modes S10.00 (2) CS8834.exe

Serial No.: MJK840TCW21100201

Antenna Designation PCB antenna with gain 2.75dBi maximum (Get from the antenna specification)

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1.4 Submitted Sample: 2 Sample

1.5 Test Duration

2022-03-11 to 2022-03-29

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

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	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100294	2021-06-18	2022-06-17
LISN	R&S	EZH3-Z5	100253	2021-06-18	2022-06-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2021-06-18	2022-06-17
Loop Antenna	EMCO	6507	00078608	2021-06-18	2024-06-17
Spectrum	R&S	FSIQ26	100292	2021-06-18	2022-06-17
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2021-07-02	2024-07-01
Horn Antenna	R&S	BBHA 9120D	9120D-631	2021-07-02	2024-07-01
Power meter	Anritsu	ML2487A	6K00003613	2021-06-18	2022-06-17
Power sensor	Anritsu	MA2491A	32263	2021-06-18	2022-06-17
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2021-07-02	2024-07-01
9*6*6 Anechoic			N/A	2021-07-02	2022-07-01
EMI Test Receiver	RS	ESVB	826156/011	2021-06-18	2022-06-17
EMI Test Receiver	RS	ESH3	860904/006	2021-06-18	2022-06-17
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2021-06-18	2022-06-17
Spectrum	HP/Agilent	E4407B	MY50441392	2021-06-18	2022-06-17
Spectrum	RS	FSP	1164.4391.38	2022-01-15	2023-01-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2021-06-18	2022-06-17
RF Cable	Zhengdi	7m		2021-06-18	2022-06-17
RF Switch	EM	EMSW18	060391	2021-06-18	2022-06-17
Pre-Amplifier	Schwarebeck	BBV9743	#218	2021-06-18	2022-06-17
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2021-06-18	2022-06-17
LISN	SCHAFFNER	NNB42	00012	2022-01-05	2023-01-04

# 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 and RSS-210	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

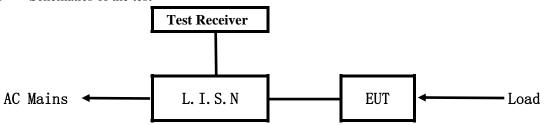
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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### 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test

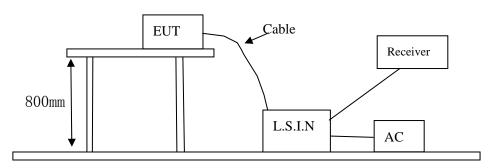


**EUT: Equipment Under Test** 

## 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. 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	
BT three-mode	Shanghan SOT Electronics Co. Ltd.	CV 652TM V940T	WOX-SK-653TM	
mechanical keyboard	Shenzhen SQT Electronics Co.,Ltd	SK-653TM, K840T	WOA-5K-0331W	

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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	Limits (dB $\mu$ V)			
(MHz)	Quasi-peak Level	Average Level		
$0.15 \sim 0.50$	66.0~56.0*	56.0~66.0		
$0.50 \sim 5.00$	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:

Pass

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

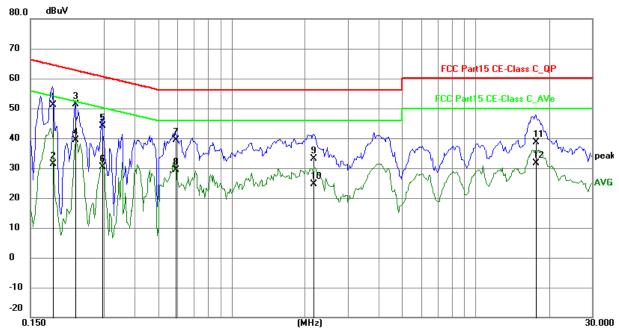
# **EUT Operating Environment**

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging and Keep Transmitting** 

**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	0.1850	41.26	9.76	51.02	64.26	-13.24	QP	П
2	0.1850	21.61	9.76	31.37	54.26	-22.89	AVG	Р
3	0.2280	41.60	9.75	51.35	62.52	-11.17	QP	Р
4	0.2280	29.64	9.75	39.39	52.52	-13.13	AVG	П
5	0.2943	34.38	9.76	44.14	60.40	-16.26	QP	Л
6	0.2943	20.54	9.76	30.30	50.40	-20.10	AVG	Л
7	0.5907	29.67	9.77	39.44	56.00	-16.56	QP	Р
8	0.5907	19.53	9.77	29.30	46.00	-16.70	AVG	Р
9	2.1585	23.25	9.81	33.06	56.00	-22.94	QP	Л
10	2.1585	14.85	9.81	24.66	46.00	-21.34	AVG	Л
11	17.5860	28.21	10.54	38.75	60.00	-21.25	QP	Р
12	17.5860	21.19	10.54	31.73	50.00	-18.27	AVG	Р

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

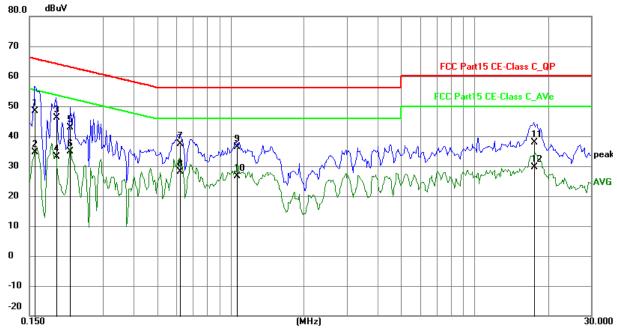
## **EUT Operating Environment**

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging and Keep Transmitting** 

**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	38.55	9.78	48.33	65.58	-17.25	QP	Р
2	0.1578	24.85	9.78	34.63	55.58	-20.95	AVG	J
3	0.1929	36.47	9.75	46.22	63.91	-17.69	QP	Р
4	0.1929	23.45	9.75	33.20	53.91	-20.71	AVG	Р
5	0.2202	33.17	9.75	42.92	62.81	-19.89	QP	J
6	0.2202	25.01	9.75	34.76	52.81	-18.05	AVG	Р
7	0.6180	27.63	9.78	37.41	56.00	-18.59	QP	Р
8	0.6180	18.28	9.78	28.06	46.00	-17.94	AVG	Л
9	1.0626	26.69	9.79	36.48	56.00	-19.52	QP	Р
10	1.0626	16.82	9.79	26.61	46.00	-19.39	AVG	Р
11	17.4846	27.43	10.53	37.96	60.00	-22.04	QP	Р
12	17.4846	19.18	10.53	29.71	50.00	-20.29	AVG	Р

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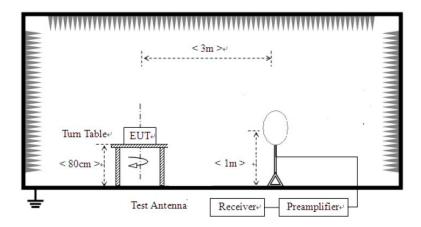


#### **6** Radiated Emission Test

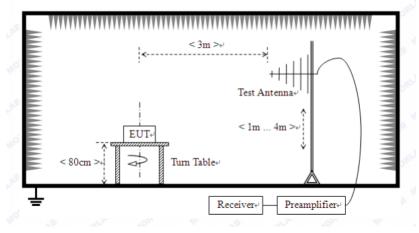
- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size 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



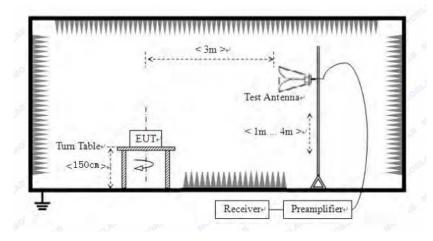
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For radiated emissions above 1GHz



- 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	Field Stre	ength of Fundame	ntal (3m)	Field S	Field Strength of Harmonics (3m)			
(MHz)	mV/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  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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.

		3 1
Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ 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  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. Battery full charged during tests.

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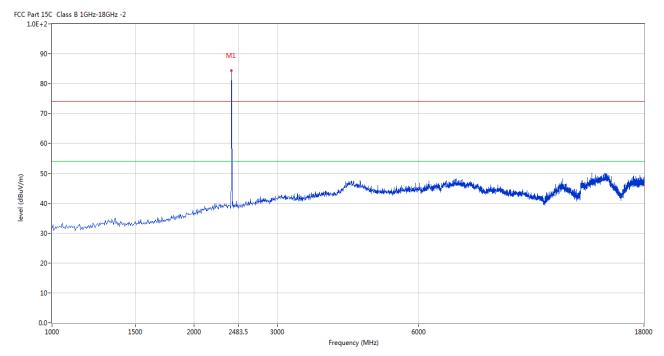


### 6.5 Test result

# A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



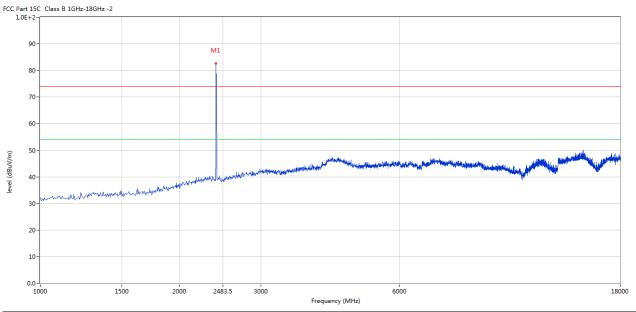
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2403	85.43	-3.57	114.0	-28.57	Peak	73.00	100	Horizontal	Pass

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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)		
1	2403	82.84	-3.57	114.0	-31.16	Peak	31.00	100	Vertical	Pass

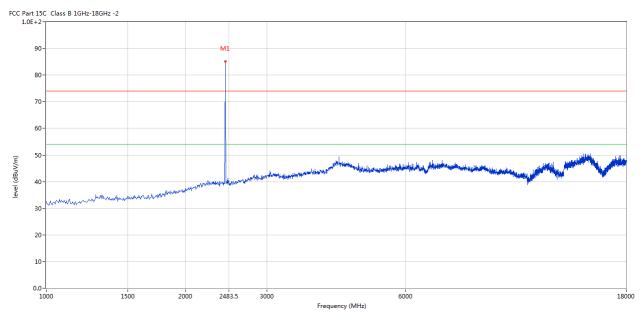
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



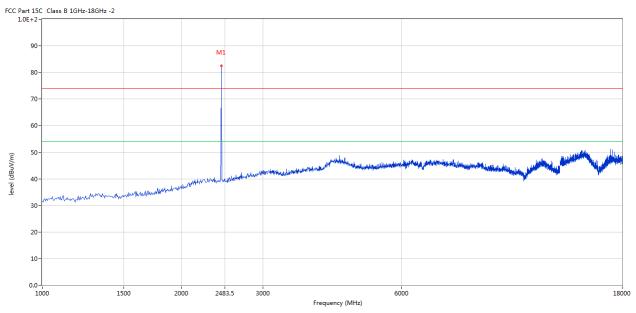
No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2441	85.04	-3.57	114.0	-28.96	Peak	251.00	100	Horizontal	Pass

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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)		
1	2441	82.46	-3.57	114.0	-31.54	Peak	168.00	100	Vertical	Pass

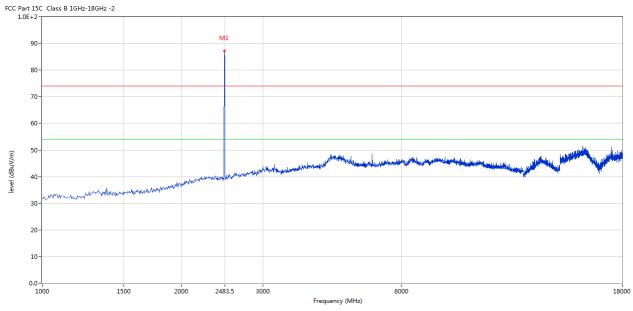
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2480	84.85	-3.57	114.0	-29.15	Peak	243.00	100	Horizontal	Pass

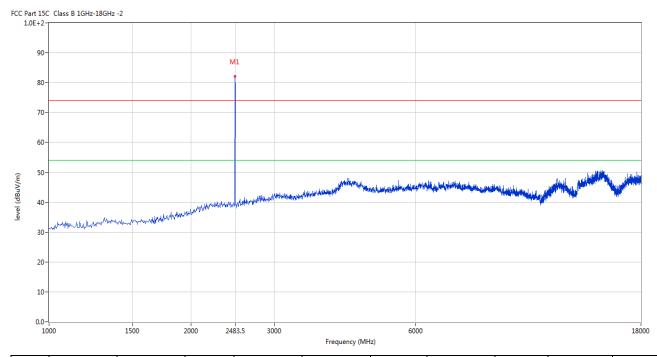
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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2480	82.20	-3.57	114.0	-31.80	Peak	36.00	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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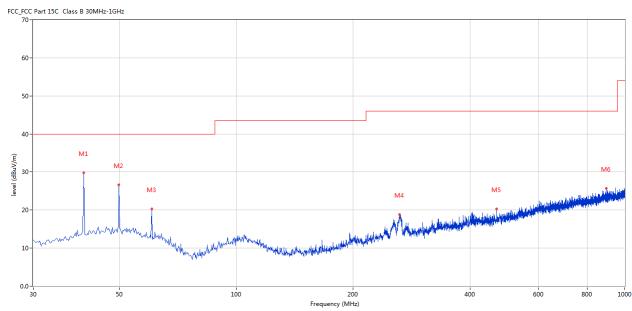


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(0)	(cm)		
1	40.425	29.83	-12.27	40.0	-10.17	Peak	30.00	200	Horizontal	Pass
2	49.880	26.69	-11.36	40.0	-13.31	Peak	246.00	100	Horizontal	Pass
3	60.547	20.28	-13.03	40.0	-19.72	Peak	188.00	200	Horizontal	Pass
4	263.227	18.92	-11.81	46.0	-27.08	Peak	223.00	100	Horizontal	Pass
5	468.088	20.33	-7.57	46.0	-25.67	Peak	49.00	200	Horizontal	Pass
6	897.206	25.68	-1.76	46.0	-20.32	Peak	0.00	200	Horizontal	Pass

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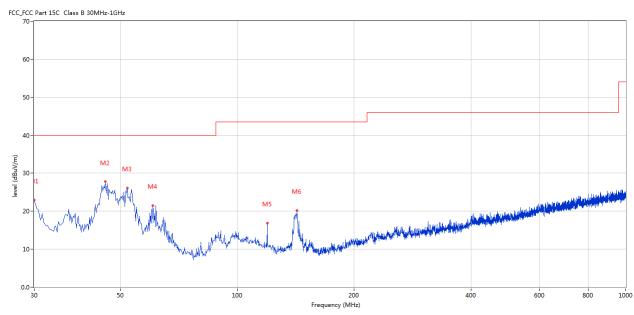


# Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	30.000	22.90	-14.19	40.0	-17.10	Peak	335.00	100	Vertical	Pass
2	45.759	27.76	-11.40	40.0	-12.24	Peak	345.00	100	Vertical	Pass
3	52.062	26.11	-11.43	40.0	-13.89	Peak	348.00	100	Vertical	Pass
4	60.547	21.52	-13.03	40.0	-18.48	Peak	338.00	100	Vertical	Pass
5	119.460	16.90	-15.19	43.5	-26.60	Peak	317.00	200	Vertical	Pass
6	142.249	20.22	-17.31	43.5	-23.28	Peak	358.00	100	Vertical	Pass

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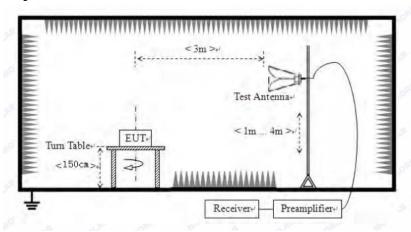


### 7. Band Edge

#### 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.

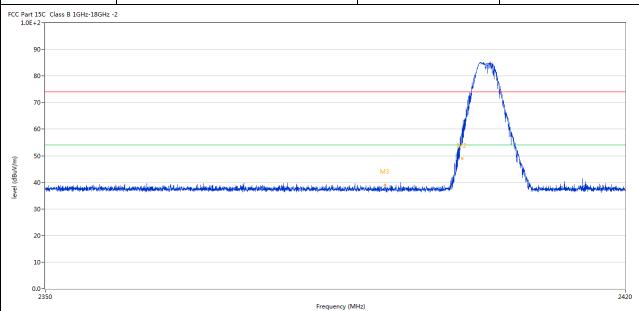
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### 7.6 Test Result

Product:	BT three-mode mechanical keyboard	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
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	2403.572	85.23	-3.57	74.0	11.23	Peak	71.00	100	Horizontal	N/A
2	2400.090	55.99	-3.57	74.0	-8.01	Peak	71.00	100	Horizontal	Pass
2**	2400.090	48.76	-3.57	54.0	-5.24	AV	71.00	100	Horizontal	Pass
3	2390.082	39.07	-3.53	74.0	-34.93	Peak	26.00	100	Horizontal	Pass

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	Product:	BT three	-mode mec	hanical keyb	oard	Detector		Vertical		
	Mode	Keeping Transmitting					age	DC3.7V		
Te	mperature		24 deg	g. C,		Humidi	ty	5	6% RH	
Te	est Result:		Pas	S						
CC Part : 1.0E+	15C Class B 1GHz-18GHz	-2								
Ğ	90-									
8	30-						Valenta V			
7	70-									
	50-							<b>\</b>		
							<b>#</b>	1		
	50-						<b>1</b> 12	$\downarrow$		
		<del>anne en </del>	n piracekeja sikirantej fra ilazilik fra ra		M3	and the second second	•	Masselman	hara sahangan dan kanpanisa badanga	Andrew Land
(m//m)	50-	<del>પ્યાન</del> તાન સમાન કરવા કરતા કરતા છે. તેમ સ્થાન કરતા કરતા કરતા હતા કરતા હતા કરતા હતા કરતા હતા કરતા હતા કરતા હતા ક	is phrodein shapens of front and for an	d. tid. Produsinaja in flijik Paris po	M3	<del>nasylvad adjulyky ny titokalan</del>	•	Mayboullander	bertukeraneley <b>k</b> erkerkerkerkerke	de de la composição de la
(m/vudb) level	10 - advanta ayrı vəyd handidə, sir və də siricin	<del>વાલું</del> ના ત્રાંત પાત્રુવ મેન્યુલ કૃતિ હો હો પ્રેપ્તિ પ્રાપ્તિ હો હો છે. જ	ng piloton dagir siddagadi yilin sidan dagi filoto ng	ik elik <sub>e</sub> r trookssin nepsen pipilik et sovio que	M3	tenangha ad palikayan periodahan	•	Massilman	(nervineamin) despirit milagi	de des parties de la constitución de la constitució
(m/ngg) level	10-th who are included an indicated and indicated an indicated and indicated an indicated and in	n <del>agyu, nto tunga depunyiyat ipikkis talakis</del>	ર ક્રોલેન્ડ હોઇન કોરોલાન લેક ફ્રેનેન્ડ હોલ્ડ હોર્ટ ક્રેલેન્ડ હોલ્ડ હોર્ટ ક્રેલેન્ડ હોલ્ડ હોર્ટ ક્રેલેન્ડ હોલ્ડ	ik filik <sub>a</sub> i teroksan nepering pinjik stravito que	M3	teranja advestila y 19 Michilader	•	A Mary Social Assessment	hart sidareende gibbelgenikt bad alge	Andrew Chantle
(W/Angp) lavai	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	n <b>as</b> ni, nde einegenb <sub>e</sub> nn d <sub>e</sub> sk feithlich de deben	ng pinesakyir-tihingunisi dipsakesaki dipsakesaki dipsakesaki dipsakesaki dipsakesaki dipsakesaki dipsakesaki	ik dik i Maaksin ahaa iy filik too is qa	M3	Marajin adagijilan ng Malalan	•	Markethan	har saigeream-leydd teagens to mellwy	
(iu/ango) ibaasi 3		naga da kunga da panga da	ng pinandajar shikasa kirjeka alam kila kawa	Anth of recolorance production in the	M3	terrania ad <sub>se</sub> difik <sub>a</sub> ep tilak kan	•	A design to sell transport of	turaninghtunatuning	2420
(W/Angp) lavai	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Results	Factor	Free	unityulikh <del>idu</del> ushin Affarigasikki	Detector	Table	Height	ANT	2420
(w//ngn) was	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Results (dBuV/m)	Factor (dB)		quency (MHz)	Detector	Table (o)			
(W/Ango) ishail	50			Limit	quency (MHz)	Detector Peak		Height		2420
(illu/noor) isobe	Frequency (MHz)	(dBuV/m)	(dB)	Limit (dBuV/m)	quency (MHz)  Over Limit (dB)		(0)	Height (cm)	ANT	2420 Verdid
(w//ngn) was	Frequency (MHz) 2402.732	(dBuV/m) 82.71	(dB) -3.57	Limit (dBuV/m) 74.0	over Limit (dB) 8.71	Peak	(o) 30.00	Height (cm)	ANT Vertical	verdid

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2\*\*

2483.497

48.52

-3.57

54.0



Pı	roduct:	-			l	Polarity		Horizon		
Mode			Keeping Transmitting				Test Voltage		DC3.7V	
Temperature				24 deg. C,			Humidit	у	7 56% R	
Tes	st Result:			Pass						
C Part 150	C Class B 1GHz-18GHz	-2								
90-										
80-										
70-				TIL.						
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			J. III	n n						
60-				\ 	<b>W</b>					
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		and the second second second		<b>"</b>			Die voor need beste	can dibat na lett	a. vien.	. L
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50 - 40 -	had and by some of soft is the sounds, and a simply so as	in manufacture of the second		,		ngtiffinder bestrikklinger n	المراب والمرابع والمرابع والمرابع		makan ya kita kinga maja wali ya kansan	harten de la companya de la company
50- 40- 30-	had and by some of soft is the sounds, and a simply so as	divine common property de		1		matelitan kantuka katuta kana ca	hallen en e	essigili sajdajda aj lasykskij	makan fulksi ki kabun kali fili katul	
30- 20-	halastrang pilipikanak dalampa	in in the second se		•		makal dipaktur disalah didagan cer	dillipus are regular personal de la regione	الاستهامة المستهامة	nggaban, julipit dikebung belik dikapada	
50- 40- 30- 20- 10-	halastrang pilipikanak dalampa	in war common to the second		7	2483.5 Frequency (MH		aliferia a registro con esta de la gista d		<del>વારે કેત</del> તું અને સ્વેત સ્વેત અન્યું જ્યારે કું તે તે કું અને સ્વાર્ગ સ્	
50- 40- 30- 20- 10- 0.0- 24	المعادلة الم	Results	Factor	Limit	2483.5		Table (o)	Height	ANT	2
30- 20- 10- 24	470	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (MH	lz)				2 Vera
30- 20- 10-	470				2483.5 Frequency (MH	lz)		Height		2

-5.48

ΑV

71.00

100

Horizontal

Pass

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]	Product:	BT three-mode mechanical keyboard					Detector		Vertical	
Mode		Keeping Transmitting				-	Test Voltage		DC3.7V	
Temperature			24 deg. C,				Humidity		56% RH	
Te	est Result:		Pass							
CC Part 1 1.0E+	L5C Class B 1GHz-18GHz	-2				•		•		
9	0-									
8	0-		* Vocalitating	M <sub>M</sub>						
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<b>⊋</b> 5	0-			- W.						
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level (dBuV/m	0-	The second secon		M	Marinemarketisticie	ોક્સને મેંગ, જિલ્લાનો પેજા કોર્યને નથી <mark>ભાગમ</mark> નુ કરિયા પોત	isty valley hill the pay a national of the little sea.	ompediklumenyonedyskowskyh deb	th dagah akkamennya sempenyakehete	uhadusira
level (dBuV/m	O-	maniput (harangaya) a ba			Management	ing the special state of the s	niyedhiptildiyayə xəsibə dalibidi ta	يعتده علام أعدي مرموع الأعدي المراوية المراوية المراوية المراوية المراوية المراوية المراوية المراوية المراوية	ti denga dalam menengan yak dari	halaina
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اوموا (ABuv)س ع ع ع		m-neitheritenseigeneit der			Makasan magaman ang dipangan	ida ter francisco del cor <mark>fens</mark> a a descrito	ng vil <mark>agathan</mark> paraisi di kali sa		histopy in the secure terror and poly diving	halasta
امراس (BBu/س) م	O-	immerijani in in ingeneral v de		2483.5 Fre	quency (MHz)	inte for Appellantial Legislantia, Afficia	ing villed part to go year in the little in the	ભવવાં એ હતા	histogridika wansansinsinsi dal	2500
امراس (BBu/س) م		Results	Factor			Detector	Table	Height	ANT	
ω//ngp) laval 3 2 2 1 0.	0		Factor (dB)	Fre	quency (MHz)					2500
版/(\ngp)   ava  3 2 1 0.	0	Results		Limit	quency (MHz)  Over Limit		Table	Height		2500
(Nngp)   4   3   2   1   0.	o- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	Results (dBuV/m)	(dB)	Limit (dBuV/m)	oquency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdict

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

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# 8.0 Antenna Requirement

# **Applicable Standard**

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

This product has a PCB antenna. The antenna gain is 2.75dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Product:	BT three-mode mechanical keyboard				Test Mode:		Keep transmitting		
Mode	Keeping Transmitting				Test Voltage		DC3.7V		
Temperature	24 deg. C,				Humidity		56% RH		
Test Result:		Pass			De	tector		PI	Κ
0dB Bandwidth		2.435MH	<b>I</b> z						
<u> </u>	Marl	ker 1 [T1	ndB]	RI	ЗW	100 kH	Iz Rl	7 Att	20 dB
Ref Lvl	ndB	20	0.00 dB	VI	ВW	300 kH	Iz		
10 dBm	BW	2.43486	5974 MHz	SI	VT.	5 ms	s Uı	nit	dBm
10						<b>v</b> <sub>1</sub>	[T1]	-8	.65 dBm
								2.40240	381 GHz
0						ndB		20	.00 dB
		1	,			BW ▼ <sub>T1</sub>	[T1]	2.43486	
-10				<del>\</del>	٨	· T		2.40173	, , , ,
		/	\	Lym	~~ <sup>/</sup> \	MVVT2	[T1]	-28	
-20		J. Mr. J	<b>V</b>					2.40416	733 GHz
1MAX	T	word					Ψ2 7		
-30	Mary Mary Mary Mary Mary Mary Mary Mary								
-40							<u>~~</u> ~		The body
-50									
-60									
-70									
-80									
-90 Center 2.	402 677		500	1 '					n 5 MHz

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Product:	BT three-mode	e mechanical keyboar	d Test Mode:	Keep transmitting	g	
Mode	Keepin	g Transmitting	Test Voltage	DC3.7V		
Temperature	2	4 deg. C,	Humidity	56% RH		
Test Result:		Pass	Detector	PK		
20dB Bandwidth	2	.455MHz				
Ref Lvl	Marker ndB	1 [T1 ndB] 20.00 dB	RBW 100 kH: VBW 300 kH:		3	
10 dBm	BW 2	2.45490982 MHz	SWT 5 ms	Unit dE	3m	
0			▼1 [	T1] -8.06 dB 2.44039379 GH 20.00 dB	m Z	
		1	BW ▼TT	2.45490982 MH [T1] -28.24 dB		
-10				2.43972244 GH [T1] -28.40 dB	z	
1MAX	T1			2.44217735 GH	1MA	
-40	11/1/11			h why h		
-50						
-60						
-70						
-80						
-90						
Center 2	.441 GHz 5.MAR.2022 14	500	kHz/	Span 5 MH	z	

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Product:	BT three-mode	e mechanical keyboa	rd	Test Mode:	Keep tr	ansmitting	
Mode	Keepin	g Transmitting		Test Voltage	DC3.7V		
Temperature	2	4 deg. C,		Humidity	56% RH		
Test Result:		Pass		Detector	PK		
20dB Bandwidth	2	.465MHz					
Ref Lvl	ndB	1 [T1 ndB] 20.00 dB	RBI VBI	W 300 kH:	z	20 dB	
10 dBm	BW 2	2.46492986 MHz	SW	r 5 ms	Unit	dBm	
				▼1 [	T1] -8	379 GHz	
0		1		ndB BW	2.46492	0.00 dB 2986 MHz	
-10				V <sub>T</sub>	2.47871	3.08 dBm 242 GHz	
-20				T2	[T1] -28 2.48117	7735 GHz	
-30	T1				T2		
-40	~ Condrador Cont						
white						Your	
-50							
-60							
-70							
-80							
-90							
Center 2	.48 GHz	500	kHz/		Spa	an 5 MHz	
Date: 26	5.MAR.2022 14	::59:45					

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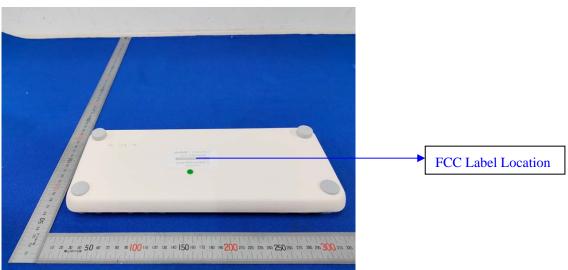
#### 10.0 FCC ID Label

#### FCC ID: WOX-SK-653TM

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--



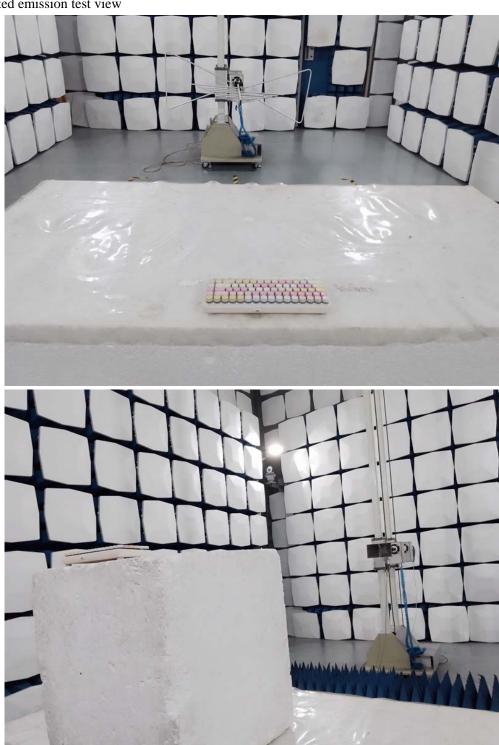
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### Radiated emission test view



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

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#### 11.2 Photographs – EUT

#### Outside View



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

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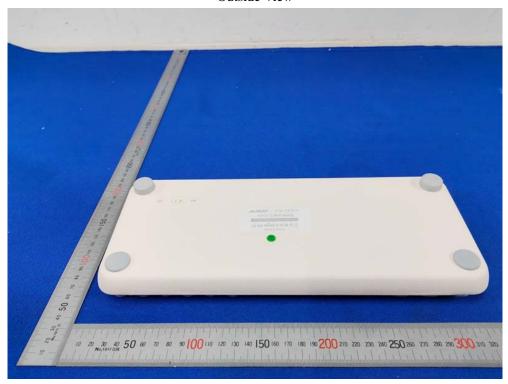
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Outside View



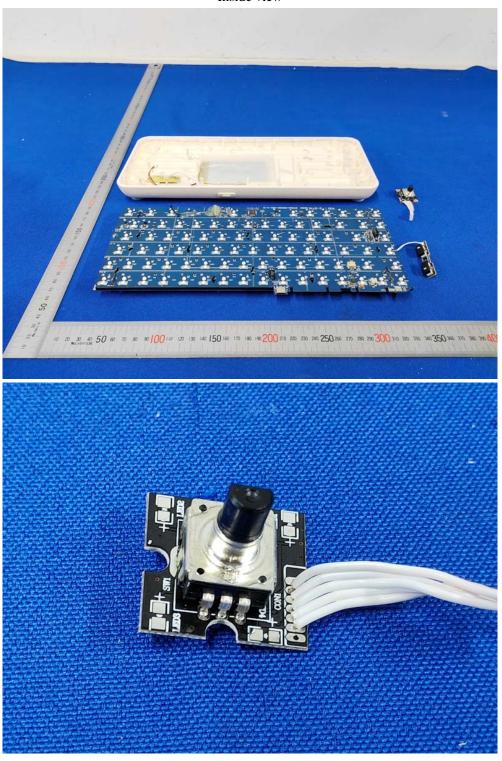
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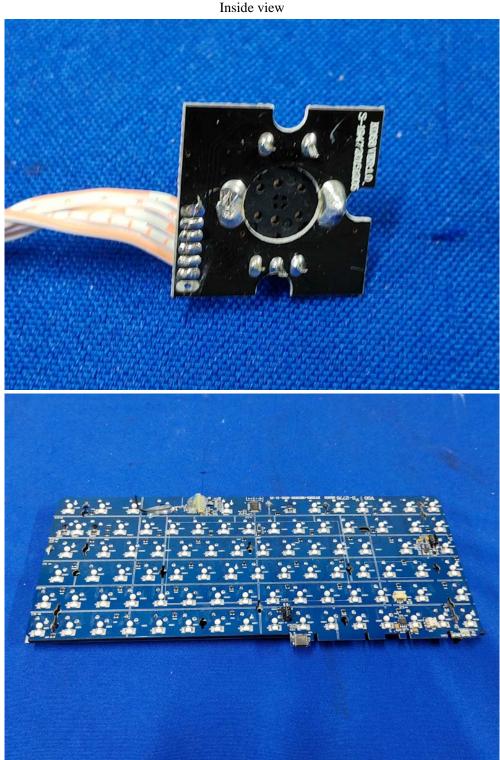
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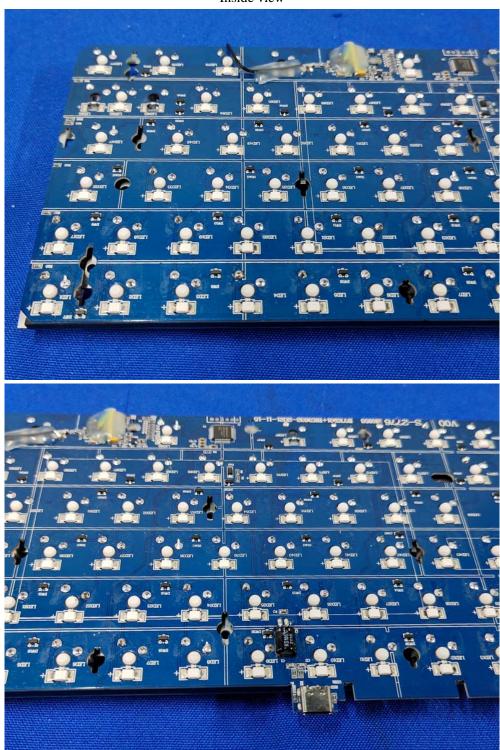
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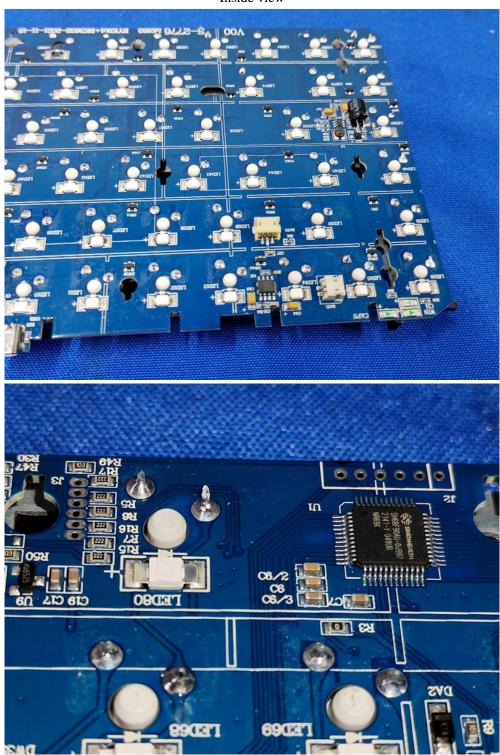
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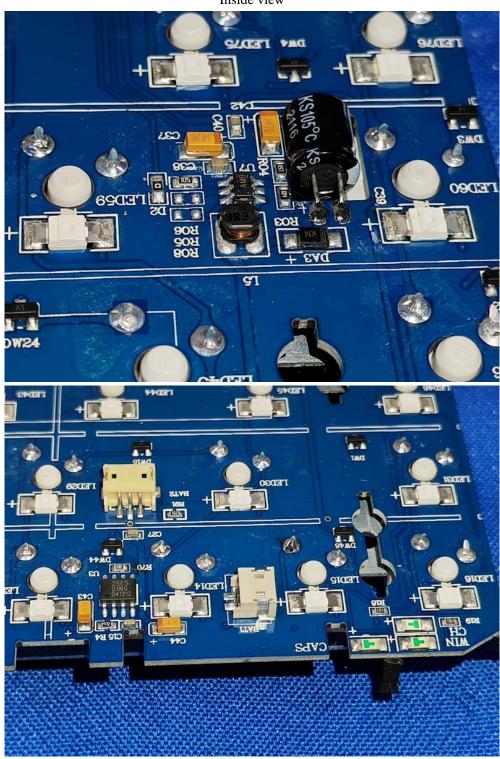
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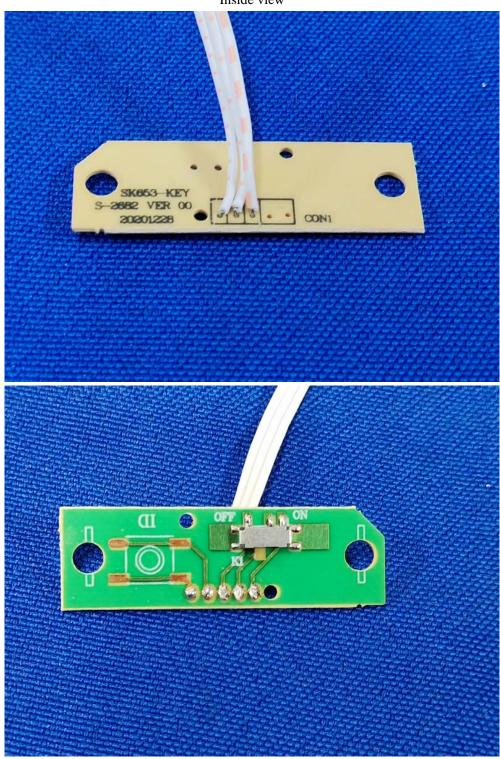
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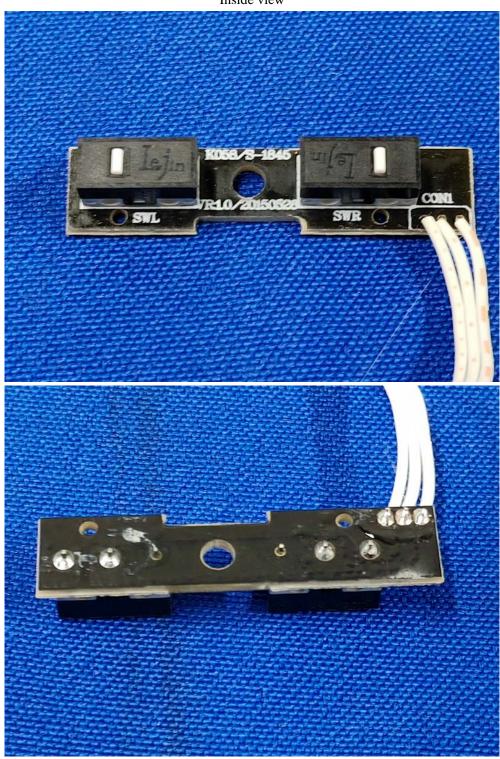
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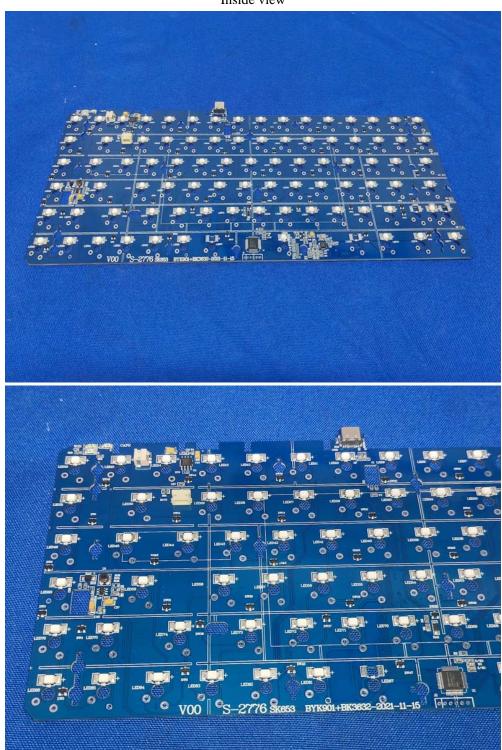
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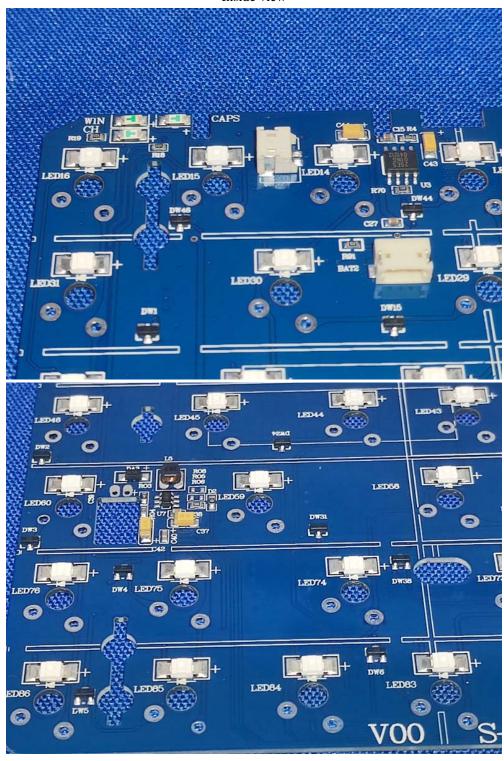
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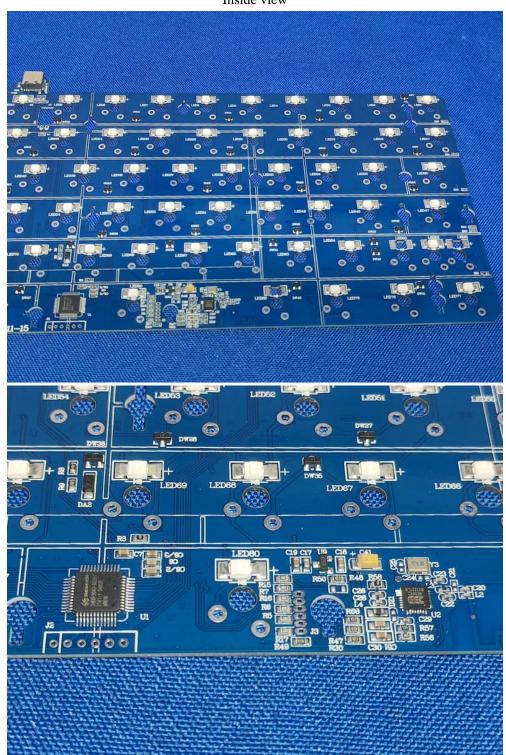
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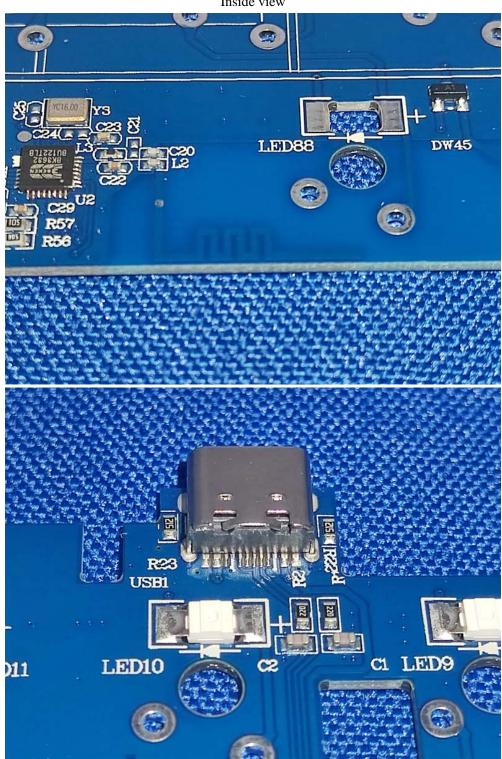
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