

Report No.:	TW2307030-01E
Applicant:	Eastern Times Technology Co.,Ltd
Product:	Mechanical Keyboard
Model No.:	Z-94, ET-8941, ET-8927, ET-8907, TR94, TR95, ZA94, K940
Trademark:	E-YOOSO
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:

October 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



Special Statement:

FCC-Registration No.: 744189

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

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

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

A2LA (Certification Number:5013.01)

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

CAB identifier: CN0033

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1.0 General Details

1.1 Test Lab Details

SHENZHEN TIMEWAY TESTING LABORATORIES. Name: Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China Telephone: (755) 83448688 Fax: (755) 83442996 Site on File with the Federal Communications Commission - United Sates Registration Number: 744189 For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: Eastern Times Technology Co.,Ltd Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China. Telephone: --Fax: --

1.3 Description of EUT

Product:	Mechanical Keyboard		
Manufacturer:	Eastern Times Technology Co.,Ltd		
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,		
	Dongguan City, Guangdong, China.		
Trademark:	E-YOOSO		
Model Number:	Z-94		
Additional Model Name	ET-8941, ET-8927, ET-8907, TR94, TR95, ZA94, K940		
Rating:	Input: DC5V, 700mA		
Battery:	DC3.7V, 2500mAh Li-ion battery		
Hardware Version:	8907-A TX V1		
Software Version:	3699		
Serial No.:	8941B230600731		
Operation Frequency:	2403-2480MHz		
Channel Number:	16		
Channel List (Unit: MHz):	2403, 2424, 2441, 2461, 2414, 2435, 2450, 2470, 2409, 2429, 2455, 2475,		
	2419, 2445, 2465, 2480		
Antenna Designation	PCB antenna with gain -7.30dBi maximum (Get from the antenna specification)		

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1.4 Submitted Sample: 2 Samples

- 1.5 Test Duration 2023-07-04 to 2023-10-26
- 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

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	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			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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The EUT has been tested according to the following specifications:

3.0 Technical Details

3.1 Summary of test results

The EOT has been tested according to the following specifications:				
Standard	Test Type	Result	Notes	
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies	
FCC Part 15, Paragraph 15.207	Conducted Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	Pass	Complies	
FCC Part 15, Paragraph 15.209	Radiated Emission Test	Pass	Complies	
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	Pass	Complies	
FCC Part 15.215(c)	20dB bandwidth	Pass	Complies	

3.2 Test Standards

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

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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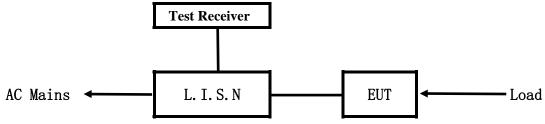
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

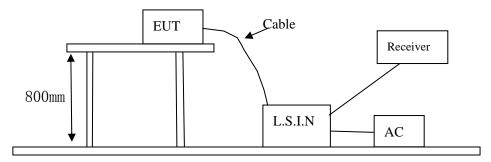


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.10–2013. Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below. 16 channels are provided to the EUT

A.	EUT
	201

Device	Manufacturer	Model	FCC ID
Mechanical Keyboard	Eastern Times Technology Co.,Ltd	Z-94, ET-8941, ET-8927, ET-8907, TR94, TR95, ZA94, K940	TUVET-8907A

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC

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N/A			
	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 C63.10-2013

- 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				
$5.00 \sim 30.00$	60.0	50.0				

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

2. The tighter limit shall apply at the transition frequencies

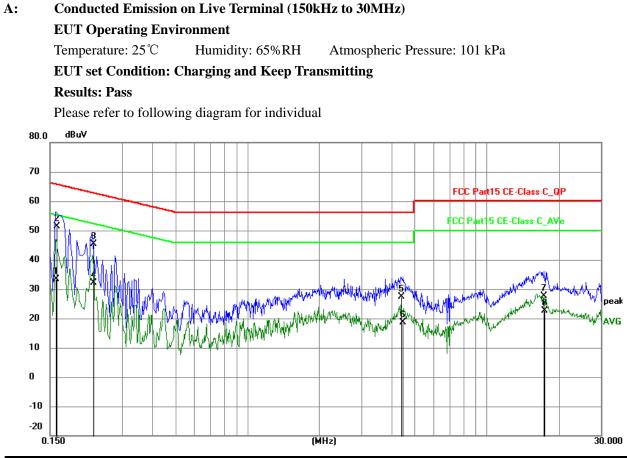
5.6 Test Results:

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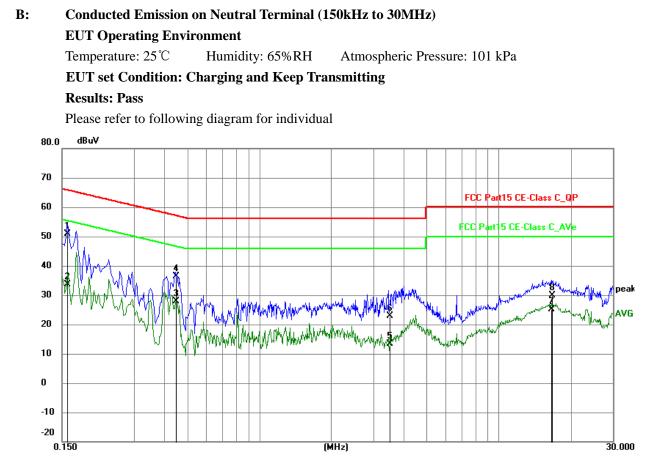


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1590	23.60	9.78	33.38	55.52	-22.14	AVG	Р
2	0.1600	41.54	9.78	51.32	65.46	-14.14	QP	Ρ
3	0.2270	35.68	9.75	45.43	62.56	-17.13	QP	Р
4	0.2270	22.32	9.75	32.07	52.56	-20.49	AVG	Ρ
5	4.3960	17.42	9.90	27.32	56.00	-28.68	QP	Р
6	4.4380	<mark>8.6</mark> 1	9.91	18.52	46.00	-27.48	AVG	Р
7	17.3730	17.11	10.52	27.63	60.00	-32.37	QP	Ρ
8	17.4360	11.98	10.53	22.51	50.00	-27.49	AVG	Ρ

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1580	41.15	9.78	50.93	65.57	-14.64	QP	Р
2	0.1580	23.85	9.78	33.63	55.57	-21.94	AVG	Ρ
3	0.4470	18.22	9.77	27.99	46.93	-18.94	AVG	Ρ
4	0.4480	26.56	9.77	36.33	<mark>56.91</mark>	-20.58	QP	Ρ
5	3.4960	3.60	9.86	13.46	46.00	-32.54	AVG	Ρ
6	3.5090	12.94	9.87	22.81	<u>56.00</u>	-33.19	QP	Р
7	16.6240	14.58	10.48	25.06	50.00	-24.94	AVG	Ρ
8	16.6930	19.48	10.48	29.96	60.00	-30.04	QP	Ρ

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6 Radiated Emission Test

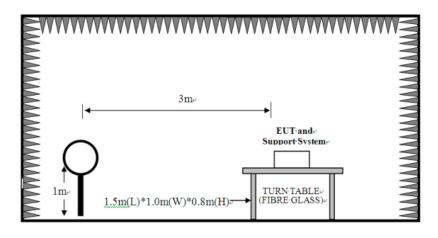
- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9kHz to 25 GHz was investigated. The frequency spectrum is set as follows:

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

(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

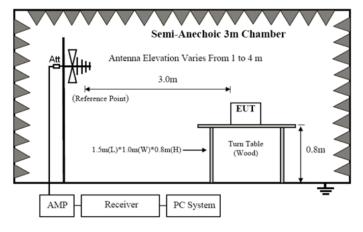


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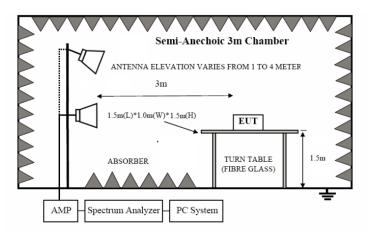
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For radiated emissions from 30MHz to1GHz



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.
- 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 Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/m	uV/m	dBuV/m		

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24	2400-2483.5		(U)		500	54 (Average)	74 (Peak)		
Note:	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.

1	1	81
Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
0.009-0.490	3	20log(2400/F(kHz)) +40log (300/3)
0.490-1.705	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.0
88-216		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. Battery fully charged was used during the test.

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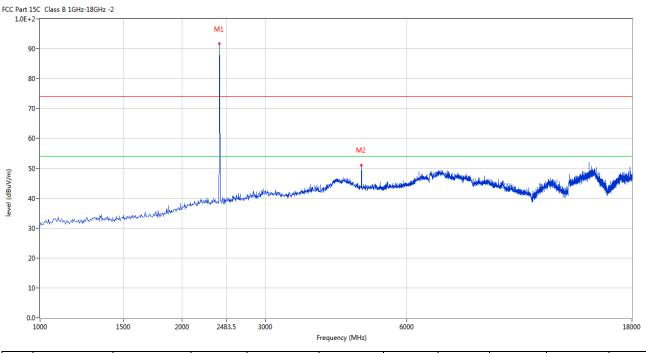
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6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

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

Horizontal

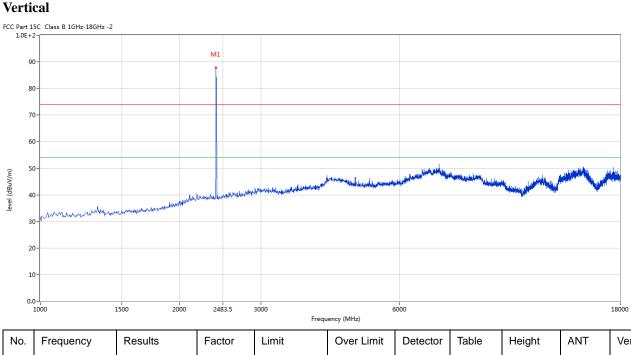


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2403	91.63	-3.57	114.0	-22.37	Peak	164.00	100	Horizontal	Pass
2	4802.799	51.08	3.12	74.0	-22.92	Peak	164.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2403	87.79	-3.57	114.0	-26.21	Peak	290.00	100	Vertical	Pass

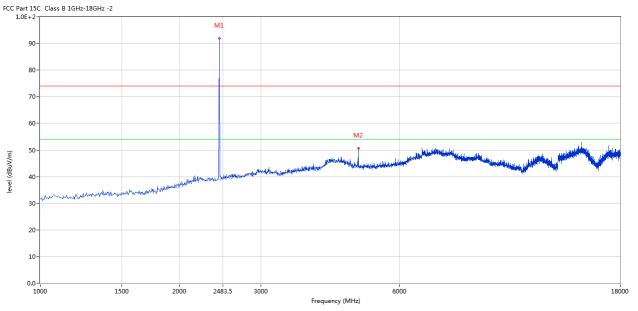
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Please refer to the following test plots for details: Middle Channel-2441MHz

Horizontal

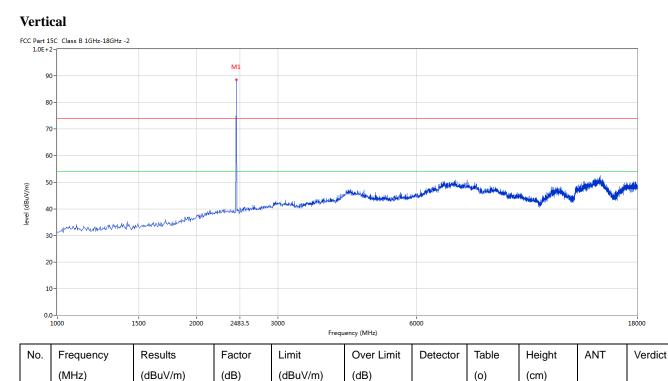


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	91.83	-3.57	114.0	-22.17	Peak	175.00	100	Horizontal	Pass
2	4879.280	50.62	3.20	74.0	-23.38	Peak	169.00	100	Horizontal	Pass

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285.00

100

Vertical

Pass

Peak

The report refers onl	v to the sample tested and	d does not apply to the bulk.

88.43

-3.57

114.0

-25.57

2441

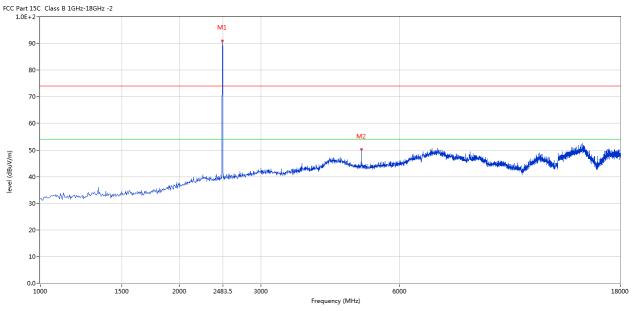
1

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

Horizontal

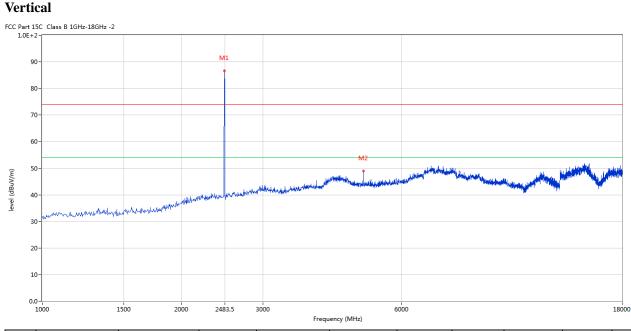


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	91.65	-3.57	114.0	-22.35	Peak	212.00	100	Horizontal	Pass
2	4960.010	50.22	3.36	74.0	-23.78	Peak	217.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480	87.59	-3.57	114.0	-26.41	Peak	288.00	100	Vertical	Pass
0	4960.010	48.88	3.36	74.0	-25.12	Peak	299.00	100	Vertical	Pass

Note: (1) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

(2) Margin=Emission-Limits

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

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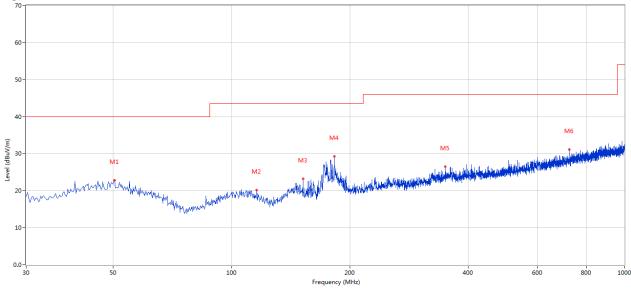
B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	50.365	22.76	-11.39	40.0	17.24	Peak	181.00	100	Horizontal	Pass
2	115.824	20.16	-14.57	43.5	23.34	Peak	288.00	100	Horizontal	Pass
3	151.947	23.16	-16.93	43.5	20.34	Peak	92.00	100	Horizontal	Pass
4	182.737	29.32	-14.96	43.5	14.18	Peak	250.00	100	Horizontal	Pass
5	350.020	26.52	-9.32	46.0	19.48	Peak	0.00	100	Horizontal	Pass
6	724.104	31.07	-3.78	46.0	14.93	Peak	276.00	100	Horizontal	Pass

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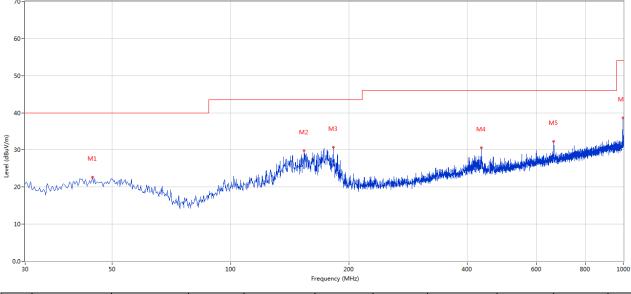
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	44.546	22.74	-11.44	40.0	17.26	Peak	234.00	100	Vertical	Pass
2	153.887	29.81	-16.84	43.5	13.69	Peak	162.00	100	Vertical	Pass
3	182.494	30.76	-14.98	43.5	12.74	Peak	298.00	100	Vertical	Pass
4	434.874	30.62	-8.01	46.0	15.38	Peak	360.00	100	Vertical	Pass
5	663.737	32.35	-4.42	46.0	13.65	Peak	346.00	100	Vertical	Pass
6	995.879	38.68	-1.26	54.0	15.32	Peak	360.00	100	Vertical	Pass

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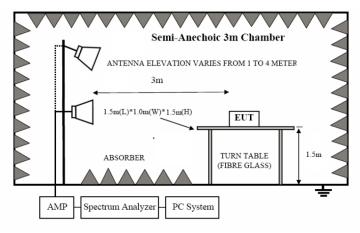


7. Band Edge

7.1 Test Method and test Procedure:

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

7.2 Radiated Test Setup



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

7.3 Configuration of the EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.4 of this report.

7.5 Band Edge Limit

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

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7.6 Test Result

1	Product:	N	Mechanical	Keyboard		Polar	ity		Horizontal	
	Mode	H	Keeping Tr	ansmitting		Test Vo	ltage		DC3.7V	
Te	mperature		24 de	g. C,		Humic	lity		56% RH	
Te	est Result:		Pa	SS						
FCC F	Part 15C Class B 1GHz-18 .0E+2- 90- 80- 70- 60-	IGHz -2						42	MI	
level (dBuV/m)	50- 40- 30- 20- 10-	llenterhilansan din der der dige	પ્લાક્ષ્યનિત્વ સુધાં કરતાં ક ાર કે તે અંગ્રે સુધાં છે.	મેરાંદ્રામાં મેરાંદ્રામાં પ્રાથમિક સંસ્થાર કરે છે. જે	l felitistigingen fotselfensen anvärden om	N augustikiteresa yantikanya m	13 	unite in the second sec		
level (dBuV/m)	40- 	Busherhitanes ar an	1993 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 -	Nia, webs 4,58% and an argue vise of the order	န်နယ်ဖိုးရှားဖြင့်ရှိသောကြောက် Frequency (MHz)	N ระบุราชีนี้ชาวเรียงการสังงงารา	13 ginalattalonation		h	2410
	40- 	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)		Augebook of the second se	n3	Height (cm)	ANT	
١٥.	40- 30- 20- 10- 0.0- 2350 Frequency	Results	Factor	Limit	Frequency (MHz)		Table	-	ANT	
No.	40- 30- 20- 10- 0.0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		Verdio
(ш/ʌnɡp) əʌə]	40- 30- 20- 10- 2350 Frequency (MHz) 2402.847	Results (dBuV/m) 91.48	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 17.48	Detector Peak	Table (o) 166.00	(cm) 100	Horizontal	Verdio N/A

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	Product:	1	Mechanical	l Keyboard		Detect	or		Vertical	
	Mode]	Keeping Tr	ransmitting		Test Vol	tage		DC3.7V	
Te	emperature		24 de	eg. C,		Humid	ity		56% RH	
Te	est Result:		Pa	ISS						
	rt 15C Class B 1GHz-18GH	Hz -2								
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	90-								1997 W.	
	80-								<u>/ ''\</u>	
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	ad y have in iterative y main iterative 30 - 20 - 10 -	Results	Factor	Limit				Height	ANT	r
	ad y have index y maked and the 30 - 20 - 10 - 2350				Frequency (MHz)	den til er den sol er den s		Height (cm)	ANT	r
No.	30- 20- 10- 2350 Frequency	Results	Factor	Limit	Frequency (MHz)	den til er den sol er den s	Table	•	ANT	r
No.	arythuniday, main (av), a 30 - 20 - 10 - 	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		Verdic
No.	arythmilion miles miles and safe	Results (dBuV/m) 87.56	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 13.56	Detector	Table (0) 282.00	(cm) 100	Vertical	

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	Product:		Mechanic	al Keyboard		P	olarity		Horizont	al
	Mode		Keeping 7	Fransmitting		Test	Voltage		DC3.7\	1
Te	emperature			leg. C,		Hı	umidity		56% RH	ł
	est Result:		F	Pass						
	rt 15C Class B 1GHz-18GF	+z -2								
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	80-		_/							
	70-		1							
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		,			N					
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	40		Factor	1	3.5 Frequency (MHz)					2500
	40- 30- 20- 10- 0.0- 2470 Frequency	Results	Factor	Limit	3.5 Frequency (MHz)	Detector	Table	Height	ANT	2500
No.	40- 30- 20- 10- 2470 Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	3.5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdic
 No. 1	40- 30- 20- 10- 2470 Frequency (MHz) 2479.920	Results (dBuV/m) 91.53	(dB) -3.57	Limit (dBuV/m) 74.0	3.5 Frequency (MHz) Over Limit (dB) 17.53	Detector Peak	Table (o) 170.00	Height (cm) 100	ANT	2500 Verdic
(ɯ/ʌnɡp) Jəʌəl No.	40- 30- 20- 10- 2470 Frequency (MHz)	Results (dBuV/m)	(dB)	Limit (dBuV/m)	3.5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdic

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	Product:	N	Aechanical	Keyboard		Detec	tor		Vertical		
	Mode	ŀ	Keeping Tr	ansmitting		Test Vol	ltage		DC3.7V		
Te	emperature		24 de	g. C,		Humic	lity		56% RH		
Te	est Result:		Pa	SS							
	rt 15C Class B 1GHz-18GF DE+2-	Hz -2									
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(uu/\ngp) ava No.	40	Results (dBuV/m)	(dB)	2483.5 Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdic	

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 -7.30dBi maximum. It fulfills the requirement of this section. Test Result: Pass

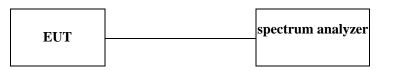
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9.0 20dB Bandwidth Measurement

Test Configuration



Test Procedure

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

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

Limit

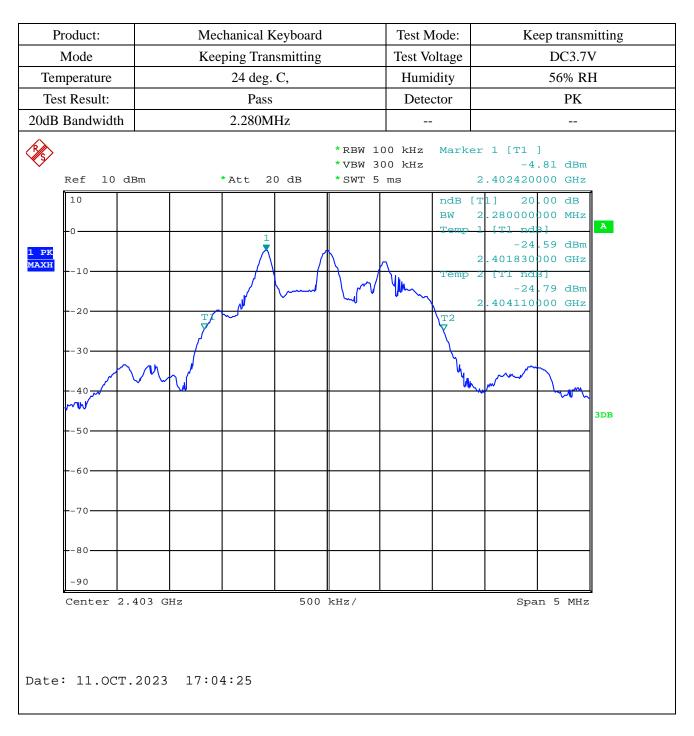
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Test Result



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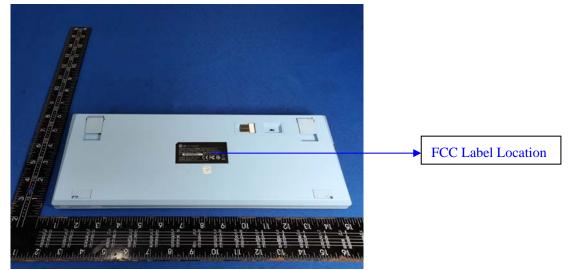
10.0 FCC ID Label

FCC ID: TUVET-8907A

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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11.2 Photographs - EUT



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Outside View



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Outside View



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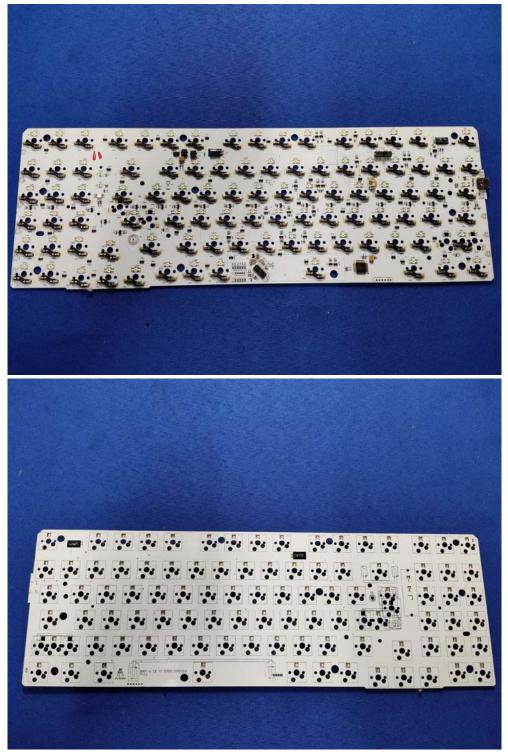
Inside View



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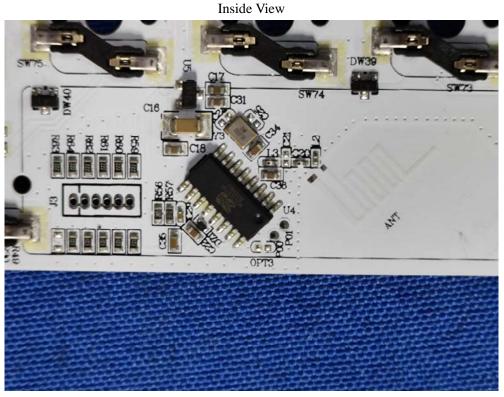


Inside View



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--End of the report--

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