

Report No.:	TW2203113-02E		
File reference No.:	2022-03-30		
Applicant:	Eastern Times Technology Co.,Ltd		
Product:	WIRELESS KEYBOARD		
Model No.:	PR335, PC335A, JS335, 335, I-61, ET-8547		
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 long

Terry Tang

Manager

Dated:

March 30, 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 17025:2005 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

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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<br/>Village, Nanshan District, Shenzhen, ChinaTelephone:(755) 83448688Fax:(755) 83442996Site 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.,LtdAddress:Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,<br/>Guangdong, China.Telephone:--Fax:--

### 1.3 Description of EUT

Product:	WIRELESS KEYBOARD
Manufacturer:	Eastern Times Technology Co.,Ltd
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,
	Dongguan City, Guangdong, China.
Trademark:	N/A
Additional Trademark:	N/A
Model Number:	PR335
Additional Model Name	PC335A, JS335, 335, I-61, ET-8547
Serial No.:	T-TGK317RGB-BR211000001
Rating:	DC5.0V, 500mA or DC3.7V, 220mA
Battery:	DC3.8V, 1600mAh Li-ion battery
Modulation Type:	GFSK
<b>Operation Frequency:</b>	2402-2480MHz
Channel Separate:	1MHz
Channel Number:	79
Antenna Designation	PCB antenna with gain -1.85dBi maximum (Declared by the Manufacturer)

#### 1.4 Submitted Sample: 1 pc

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1.5 Test Duration 2022-03-07 to 2022-03-30

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 - King

The sample tested by

Print Name: Terry Tang

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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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adopt any other remedies which may be appropriate.



### **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

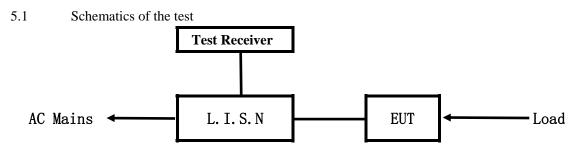
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

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### 5. Power Line Conducted Emission Test



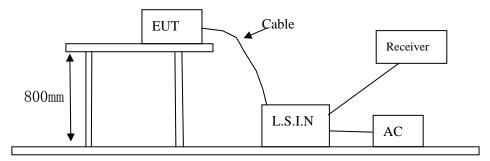
EUT: Equipment Under Test

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. 79 channels are provided to the EUT

А	EUT
11.	LUI

Device	Manufacturer	Model	FCC ID
WIRELESS	Eastern Times	PR335, PC335A, JS335, 335, I-61,	TUVET-8547
KEYBOARD	Technology Co.,Ltd	ET-8547	IUVE1-8347

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### B. Internal Device

2.	11100111a1 2 0 1 100			
	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 C63.10-2013
- 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

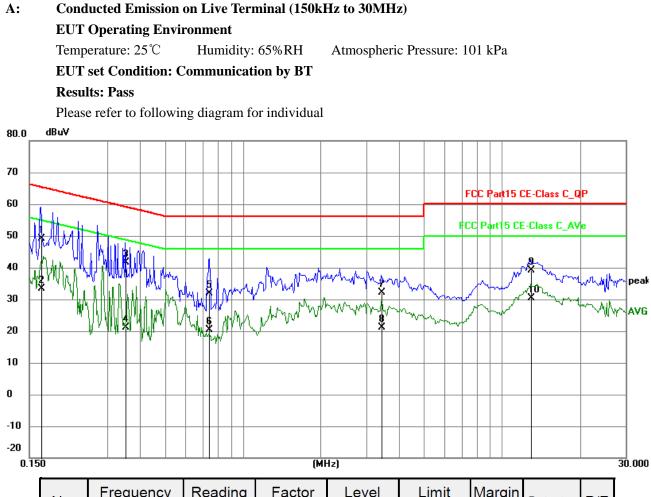
### 5.6 Test Results:

Pass

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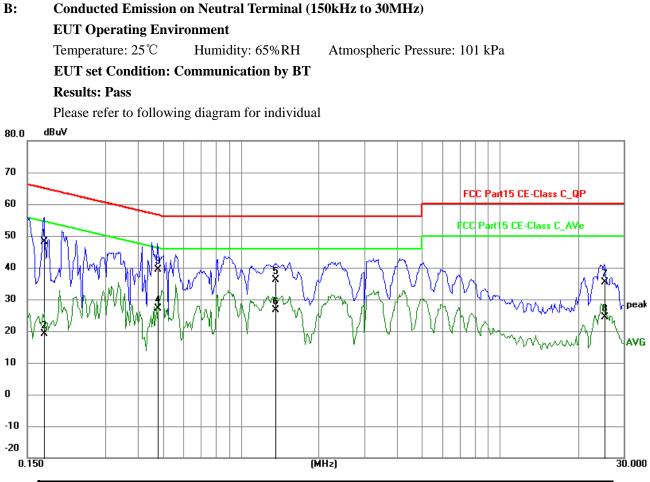
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1664	39.26	9.77	49.03	65.14	-16.11	QP	Р
2	0.1664	23.68	9.77	33.45	55.14	-21.69	AVG	Ρ
3	0.3528	31.79	9.76	41.55	58.90	-17.35	QP	Ρ
4	0.3528	11.47	9.76	21.23	48.90	-27.67	AVG	Р
5	0.7428	22.13	9.78	31.91	56.00	-24.09	QP	Ρ
6	0.7428	10.48	9.78	20.26	46.00	-25.74	AVG	Р
7	3.4212	22.39	9.86	32.25	56.00	-23.75	QP	Р
8	3.4212	11.29	9.86	21.15	46.00	-24.85	AVG	Р
9	12.9567	28.94	10.29	39.23	60.00	-20.77	QP	Ρ
10	12.9567	20.16	10.29	30.45	50.00	-19.55	AVG	Р

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B:





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	38.31	9.77	48.08	64.80	-1 <mark>6</mark> .72	QP	Ρ
2	0.1734	9.26	9.77	19 <mark>.</mark> 03	<mark>54.80</mark>	-35.77	AVG	Ρ
3	0.4776	29.60	9.77	39.37	<mark>56.38</mark>	-17.01	QP	Ρ
4	0.4776	17.25	9.77	27.02	46.38	-19.36	AVG	Ρ
5	1.3629	26.35	9.79	36.14	56.00	-19.86	QP	Ρ
6	1.3629	16.87	9.79	26.66	46.00	-19.34	AVG	Ρ
7	25.2767	24.35	11.01	35.36	60.00	-24.64	QP	Ρ
8	25.2767	13.48	11.01	24.49	50.00	-25.51	AVG	Ρ

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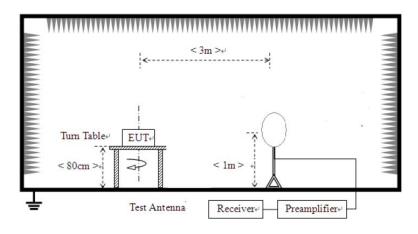


### 6 Radiated Emission Test

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

### Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

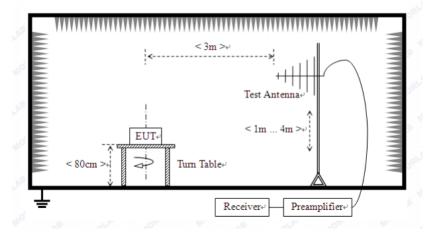


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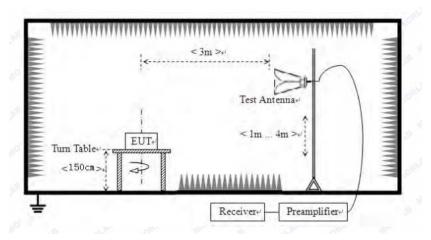
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.

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### 6.4 Radiated Emission Limit

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

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

Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field St	trength of Harmo	nics (3m)
(MHz)	mV/m	dBu	V/m	uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

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

2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

### B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

1	L	······································
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
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage  $(dBuV) = 20 \log RF$  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. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

6. 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.

7. Battery full charged during tests.

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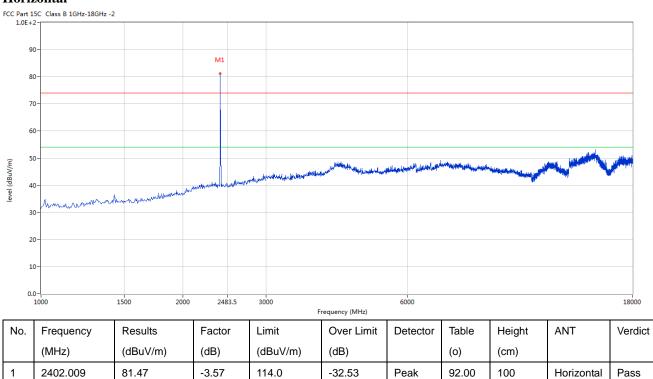


## 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



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

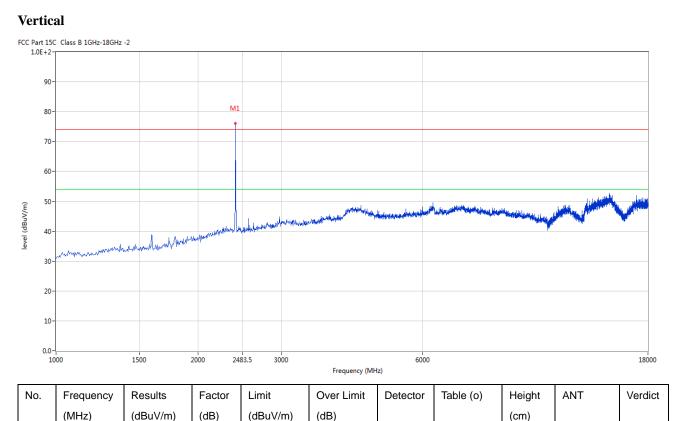
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2402.009

76.15

1





-37.85

Peak

189.00

100

Vertical

Pass

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

-3.57

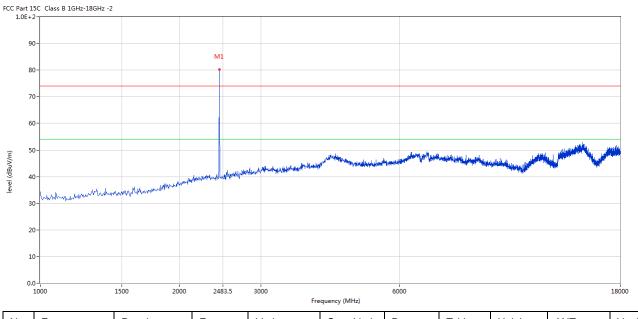
114.0

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

### Horizontal

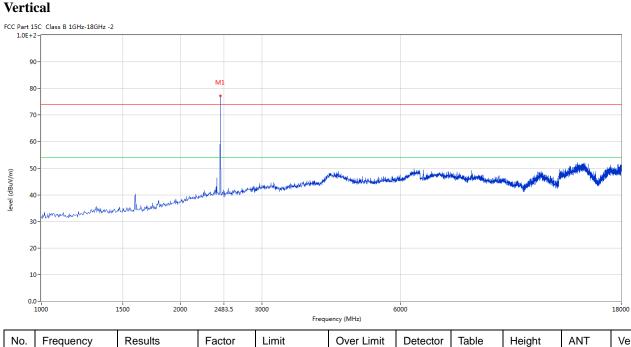


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441.010	80.14	-3.57	114.0	-33.86	Peak	243.00	100	Horizontal	Pass

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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	2441.010	76.26	-3.57	114.0	-37.74	Peak	195.00	100	Vertical	Pass

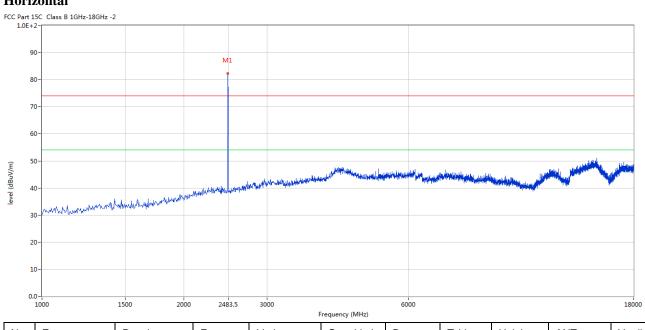
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### Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal

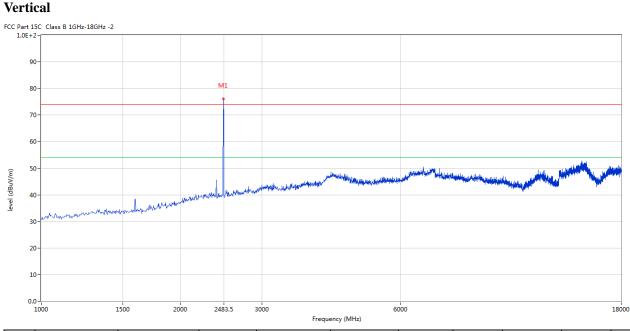


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2480.010	82.32	-3.57	114.0	-31.68	Peak	334.00	100	Horizontal	Pass

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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	2480.010	76.01	-3.57	114.0	-37.99	Peak	12.00	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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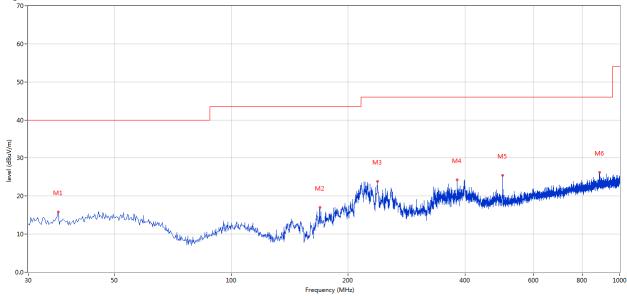
### B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

### Results: Pass

Please refer to following diagram for individual

FCC\_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	35.819	15.86	-13.76	40.0	-24.14	Peak	48.00	100	Horizontal	Pass
2	168.918	17.04	-16.11	43.5	-26.46	Peak	360.00	100	Horizontal	Pass
3	237.771	23.88	-12.44	46.0	-22.12	Peak	103.00	100	Horizontal	Pass
4	381.537	24.22	-9.18	46.0	-21.78	Peak	109.00	100	Horizontal	Pass
5	500.090	25.41	-6.91	46.0	-20.59	Peak	227.00	100	Horizontal	Pass
6	887.023	26.25	-2.08	46.0	-19.75	Peak	103.00	100	Horizontal	Pass

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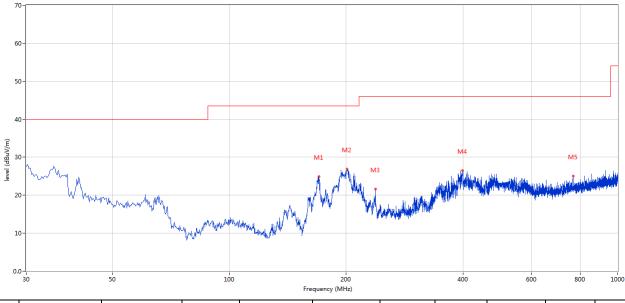
### Radiated Emission In Vertical (30MHz----1000MHz)

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	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	170.130	24.95	-15.99	43.5	-18.55	Peak	179.00	100	Vertical	Pass
2	200.920	26.94	-13.44	43.5	-16.56	Peak	112.00	100	Vertical	Pass
3	237.771	21.65	-12.44	46.0	-24.35	Peak	207.00	100	Vertical	Pass
4	398.508	26.55	-8.65	46.0	-19.45	Peak	346.00	100	Vertical	Pass
5	768.470	25.07	-3.22	46.0	-20.93	Peak	324.00	100	Vertical	Pass

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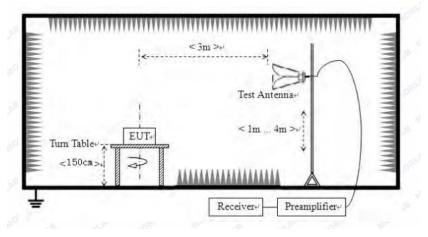


### 7. Band Edge

### 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

	Product:	WI	RELESS K	EYBOARD		Polarity		Н	orizontal	
	Mode	K	Leeping Tra	insmitting	Т	est Voltag	e	Ι	DC3.8V	
Te	mperature		24 deg	g. C,		Humidity		5	6% RH	
Te	est Result:		Pas	S						
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2								_
g	0-							м	1	
8	0-							r	γ	
7	0-							/		_
F	0-									
										_
5	0-					M2		1.		_
4	0- uhithunning interdiopeth sign	Mary dy, day gridd wyn, ddwrgrid ar Mary yn gwrai	ny an hay block for the state of the state	unan and the state of the state	وماديدا الإيلانية ليطيفا الجليدة مأرجوه مربدة	angene street and the state			Murrinale	w*
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3 2 1 0		Results	Factor			Detector	Table	Height		2410
3 2 1 0	0- 0- 0- 2350			Fre	quency (MHz)					2410
3 2 1	0- 0- 0- 2350 Frequency	Results	Factor	Fre	quency (MHz) Over Limit		Table	Height		
3 2 1 0 <b>No.</b>	0- 0- 2350 Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Fre Limit (dBuV/m)	<sup>quency</sup> (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2410 Verdia
3 2 1 0 <b>NO.</b>	Prequency (MHz) 2402.157	Results (dBuV/m) 81.31	Factor (dB) -3.57	Fre Limit (dBuV/m) 74.0	<sup>quency (MHz)</sup> Over Limit (dB) 7.31	Detector Peak	Table (o) 96.00	Height (cm) 100	ANT Horizontal	2410 Verdia

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	Product:	W	IRELESS	KEYBOARI	)	Detecto	r	V	/ertical	
	Mode		Keeping T	ransmitting		Test Volta	age	D	C3.8V	
Te	emperature		24 de	eg. C,		Humidit	ty	5	6% RH	
Te	est Result:		Pa	ass						
C Part 1 1.0E+	15C Class B 1GHz-18GHz	-2								
g	90 -									
8	80 -							м	1	
7	70-							, P	<u>لم</u>	
6	50 -									
5	50-					L LEMA	uuran Uluu			
5		development in the for shelling we do have the		Henry Anna Martin, Scheller, and A.	heidenskust henderskalder in	Adamite upstalling and a				
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4 3 2 1	40 - <mark>Jit and Jit Millit Millit Millit And Jit Millit 30 - 20 - 10 -</mark>	Results	Factor		ана затаната 	Detector	Table	Height	ANT	2410
4 3 2 1	40 - <mark>11 - 11 - 11 - 11 - 11 - 11 - 11 - </mark>			Frank Kong Kong Kong Kong Kong Kong Kong Kong	requency (MHz)		Table (o)	Height (cm)		2410
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3 2 1 0	40	Results (dBuV/m)	Factor (dB)	Fi Limit (dBuV/m)	requency (MHz) Over Limit (dB)	Detector	(0)	(cm)	ANT	2410 Verdic
4 2 1 0 No.	40	Results (dBuV/m) 76.13	Factor (dB) -3.57	Fi Limit (dBuV/m) 74.0	requency (MHz) Over Limit (dB) 2.13	Detector Peak	(o) 184.00	(cm) 100	ANT	2410 Verdic

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	Product:	WIRELESS KEYBOARD			Polarity		Horizontal				
	Mode		Keeping Transmitting				Test Voltage		DC3.8V		
Temperature			24 deg. C,			Humidity		56% RH			
Te	est Result:		Pass								
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	: -2									
	90-										
8	30-			N.							
7	70-		J								
6	50-		- V	- N							
			IM								
í s	50-		W								
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level (dbuV/m	10- Virratovitika og en og en som	i alidanii bibaan in asinaa aasida			Manufacture and the second	ondflastrindfladstrindspars	Edison estation to the editor	issi wataka nya dala digi ng	netratulf bedingusta vetated	iges, addished and	
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level (dBuV/m	10 - Vinskrik/ <u>vinskrikk</u> (normal konstrukt 20 - 10 -	i nikawikata si nationalangka dalah				nallaði viðlutanadaru	derin,nössestjundvärdner	inspecielos que que altera	ne ne al-land ar a has no state et	ten dalah se	
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level (dBuV/m	10	Results	Factor	2483.	5	Detector	dis	Height	ANT	2500	
Eevel (dgnn/)	10		Factor (dB)	1	5 Frequency (MHz)					2500	
Eevel (dgnn/)	10	Results		Limit	5 Frequency (MHz) Over		Table	Height			

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1	Product:	t: WIRELESS KEYBOARD				Detecto	or	V	Vertical	
	Mode		Keeping Transmitting			Test Volta	age	D	C3.8V	
Te	mperature		24 deg. C,			Humidi	ty	50	5% RH	
Те	est Result:		Pass							
CC Part 1 1.0E+	15C Class B 1GHz-18GHz	-2			ł					
1.00+	-2-									
9	90-									
8	30-									
7	70-		- M							
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(m//nnpp) 4 3 2 1	50 - 10 - <mark>Avidation and Albertandon br/>200 - Albertandon and Albertan Albertandon and Albertandon and Albertandon and Albertandon and Albertandon and Albertandon and Albertandon and A</mark>	allin a daniya a sa a		M2 2483.5	haded free to be a solution of the	adaliyin rayahildaddiya	libledre ubbeldere internetige og	urabeleydd Waeirefyd	hatsa matangal analah	2500
(m//nnpp) 4 3 2 1	50 - 10 - <u>1111 - 1111</u>			2483.5	equency (MHz)	abalija, na artida adam	leluder, sligtler, ignolegiste		haden omheterand van de det	
(m//nnpp) 4 3 2 1	50 - 10 - <u>1111 - 1111</u>	Results	Factor	2483.5		Detector	Table	Height	ANT	2500
(ш///ŋŋg) 4 3 2 1	50 - 10 - 10 - 10 - 10 - 10 - 10 - 2470	Results (dBuV/m)	Factor (dB)	2483.5 Fr	equency (MHz)					2500
(W/\\\\\\) (W/\\\\) (U) (U) (U) (U) (U) (U) (U) (U	50 - 10 - 10 - 10 - 20 - 10 - 2470 Frequency			2483.5 Fr Limit	equency (MHz)		Table	Height		

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

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### 8.0 Antenna Requirement

#### **Applicable Standard**

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

This product has a PCB antenna with gain -1.85dBi maximum. It fulfills the requirement of this section. Test Result: Pass

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9.0 20dB Bandwidth I GFSK Modulation								
Product: WIRELESS KEYBOARD					de:	Keep transmitting		
Mode	Keeping Tra	Test Voltage		DC3.8V				
Temperature	24 deg	Humidity		56% RH				
Test Result:	Pas	Detector		РК				
20dB Bandwidth	1.521MHz							
<u>,</u>	Delta 1 [T1]		RBW	30 k	Hz	RF Att	20 dB	
Ref Lvl	-	0.67 dB	VBW	100 k	Hz			
10 dBm	1.5210	4208 MHz	SWT	8.5 m	າຮ	Unit	dBn	n
10				<b>v</b> <sub>1</sub>	[T1]	-2	21.44 dBm	]
						2.4012	6353 GHz	A
0		~ ~ ~	<b>V</b>	<b>▲</b> 1	[T1]	-	0.67 dB	-
			$\sim$	∇ 2		1.5210		
-10				<u>* 2</u>	[T1]	2 4020	<u>2.03 dBm</u> 7515 GHz	
	mm		Ň	$\sim$		2.4020	JIJ GHZ	
-20 	dBm Y							
lmas								1MA
-30								-
-40						~	-	-
-50							`	-
-60								-
-70								
8.0								
- 80								
-90 Center 2.40	)2 GHz	300	kHz/			Sr	an 3 MHz	11
Date: 28.M	AR.2022 19:34:22					-		

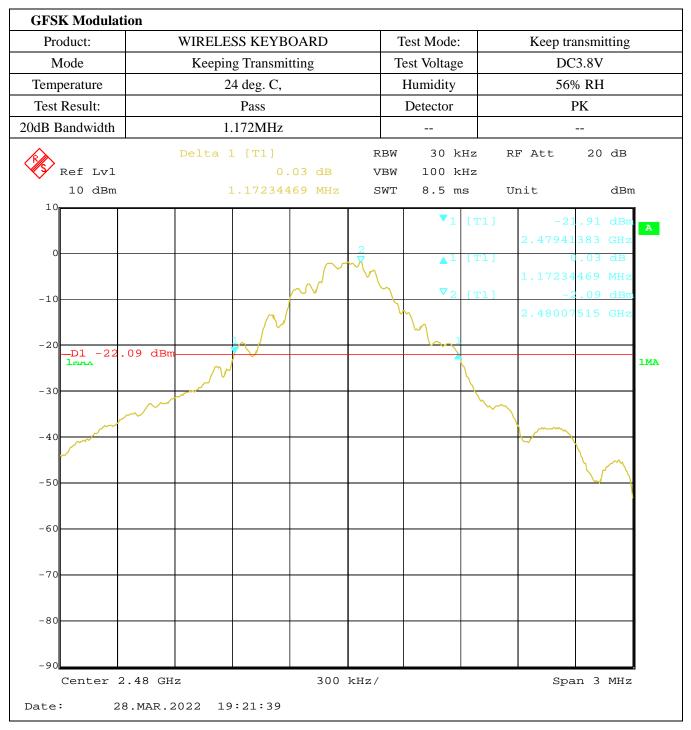
The report refers only to the sample tested and does not apply to the bulk. This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report. In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES. reserves the rights to withdraw it and to



Product:	WIRELESS KEYBOARD	Test Mode:	Keep transmitting		
Mode	Keeping Transmitting	Test Voltage	DC3.8V 56% RH PK		
Temperature	24 deg. C,	Humidity			
Test Result:	Pass	Detector			
0dB Bandwidth	1.347MHz				
	Delta 1 [T1]	RBW 30 kHz	z RF Att 20 dB		
Ref Lvl	0.31 dB	VBW 100 kHz	Z		
10 dBm	1.34669339 MHz	SWT 8.5 ms	Unit dBm		
10		▼1 [	T1] -22.37 dBm		
		2	2.44032966 GHz		
0		ν, <sup>Δ1</sup> [	T1] (.31 dB		
			1.34669339 MHz T11 -2.01 dBm		
-10			2.44107515 GHz		
-20 	1 dBm		1112		
IMAX					
-30	~~~~				
-40					
-50					
-60					
-70					
- 80					
-90					
Center 2.4	441 GHz 300	<hz <="" td=""><td>Span 3 MHz</td></hz>	Span 3 MHz		

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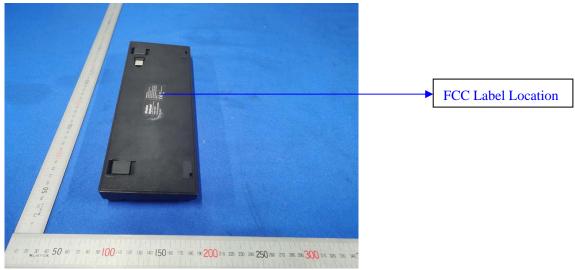
### 10.0 FCC ID Label

### FCC ID: TUVET-8547

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

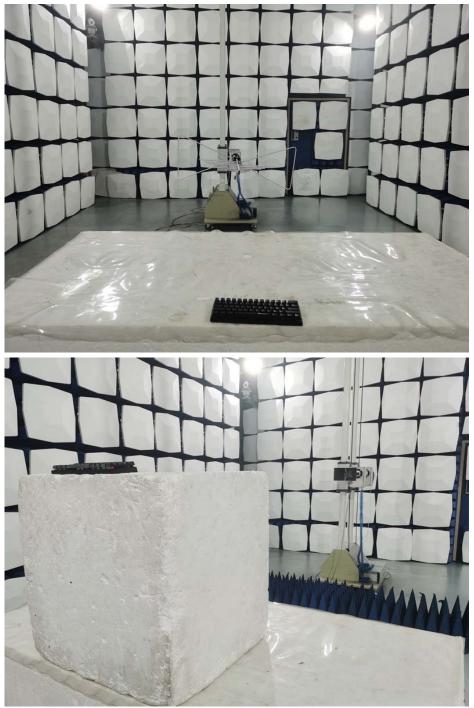
11.1 Conducted test View--



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Radiated emission test view



### **Photographs – EUT**

Please refer test report TW2203113-01E

#### --End of the report--

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