



Report No.: File reference No.:	TW2104141E 2021-04-21
Applicant:	Shenzhen Star Sources Electronic Technology Co., Ltd.
Product:	Wireless Mouse
Model No.:	ST-131, HPX-KX700, KX700
Brand Name:	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	
Jack Chung	
Jack Chung	
Manager	
Dated:	April 21, 2021
	herein relate only to the sample tested orts is issued errors and omissions exempt and is subject to
GHENZHE	

# 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) 83448688

Fax: (755) 83442996

Site on File with the Federal Communications Commission - United Sates

Registration Number: 744189

For 3m Anechoic Chamber

## 1.2 Applicant Details

Applicant:	Shenzhen Star Sources Electronic Technology Co., Ltd.
Address:	Room 1102, Block 1 st, Yi Luan Building, Xixiang Road 230, BaoAn District, Shenzhen, China
Telephone:	+86-755-86397260
Fax:	+86-755-26609516

## 1.3 Description of EUT

Description of DO I						
Product:	Wireless Mouse					
Manufacturer:	Shenzhen Star Sources Electronic Technology Co., Ltd.					
Address:	Room 1102, Block 1 st,	Yi Luan Bu	ilding, Xixi	ang Road 2	30, BaoAn D	istrict,
	Shenzhen, China					
Brand Name:	N/A					
Model Number:	ST-131					
Additional Model Name	HPX-KX700, KX700					
Hardware Version:	V1.0					
Software Version:	V1.0.2					
Serial No.:	ST1312021040800008					
Rating:	DC3.0V, 2pcs AAA batteries					
Modulation Type:	GFSK					
Operation Frequency:	2405-2475MHz					
Channel Number:	8					
Channel List:	Channel	1	2	3	4	
	Frequency (MHz)	2405	2411	2417	2451	
	Channel 5 6 7 8					

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2457

2463

2469

2475

Frequency (MHz)

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Antenna Designation

PCB antenna with gain 1.6dBi Max (Get from the antenna specification provided by the applicant)

- 1.4 Submitted Sample: 1 Sample
- 1.5 Test Duration 2021-04-10 to 2021-04-21
- 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

Terry Tang

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	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100294	2020-06-23	2021-06-22
LISN	R&S	EZH3-Z5	100253	2020-06-23	2021-06-22
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2020-06-23	2021-06-22
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic			N/A	2020-07-06	2021-07-05
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22
Spectrum	RS	FSP	1164.4391.38	2021-01-16	2022-01-15
RF Cable	Zhengdi	ZT26-NJ-NJ-8M /FA		2020-06-23	2021-06-22
RF Cable	Zhengdi	7m		2020-06-23	2021-06-22
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22
LISN	SCHAFFNER	NNB42	00012	2021-01-07	2022-01-06

## 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 15.207	Conducted Emission Test	N/A	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

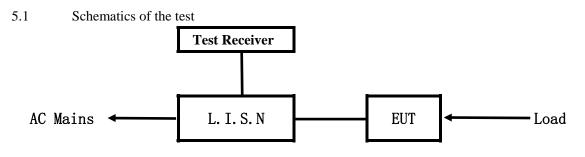
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## 5. Power Line Conducted Emission Test

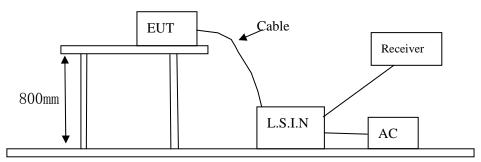


EUT: Equipment Under Test

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.

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. One channels are provided to the EUT

A.	EUT
	201

Device	Manufacturer	Model	FCC ID
Wireless Mouse	Shenzhen Star Sources Electronic Technology Co., Ltd.	ST-131, HPX-KX700, KX700	ZJE-ST131

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B. Internal Device

2.	1110011141 200100			
	Device	Manufacturer	Model	FCC ID/DOC
	N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition Operating condition is according to ANSI C63.10-2013

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

#### 5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (d	lB μ V)
(MHz)	Quasi-peak Level	Average Lev 1
$0.15~\sim~0.50$	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:

N/A

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

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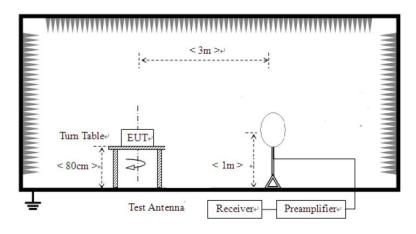


## 6 Radiated Emission Test

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

## Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

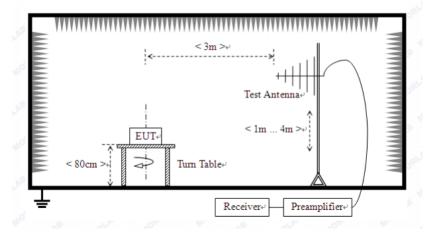


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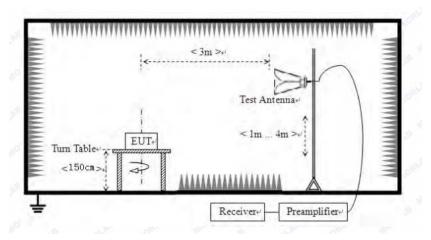
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



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

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## 6.4 Radiated Emission Limit

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

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

Fundamental Frequency	Field Stre	ength of Fundamental (3m)		Field Strength of Harmonics (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.

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
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. 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.

5. 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.

6. New Battery was used during tests.

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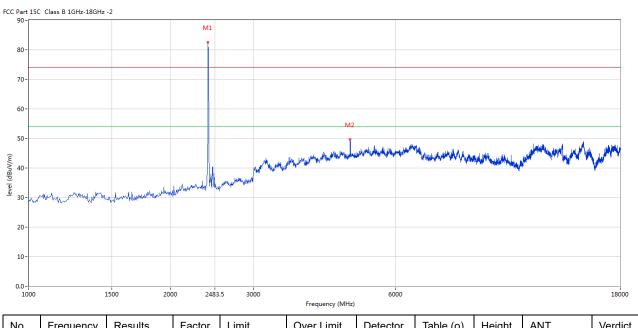
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# 6.5 Test resultA Fundamental & Harmonics Radiated Emission Data

Please refer to the following test plots for details: Low Channel-2405MHz

## Horizontal

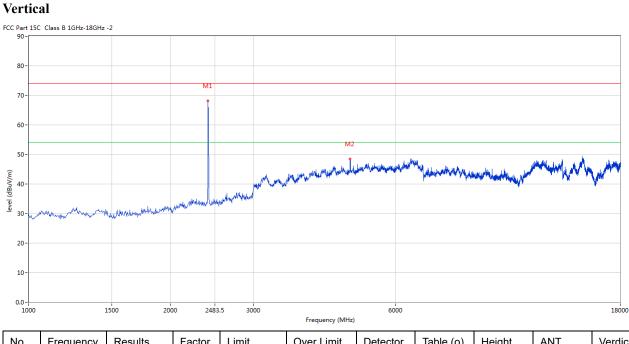


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2405.500	82.52	-3.57	114.0	-31.48	Peak	0.00	100	Horizontal	Pass
2	4808.000	49.62	3.13	74.0	-24.38	Peak	33.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2405.500	68.17	-3.57	114.0	-45.83	Peak	332.00	100	Vertical	Pass
2	4808.000	48.55	3.13	74.0	-25.45	Peak	253.00	100	Vertical	Pass

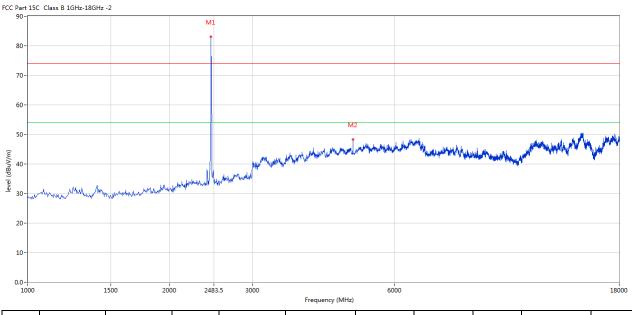
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## Please refer to the following test plots for details: Middle Channel-2451MHz

#### Horizontal

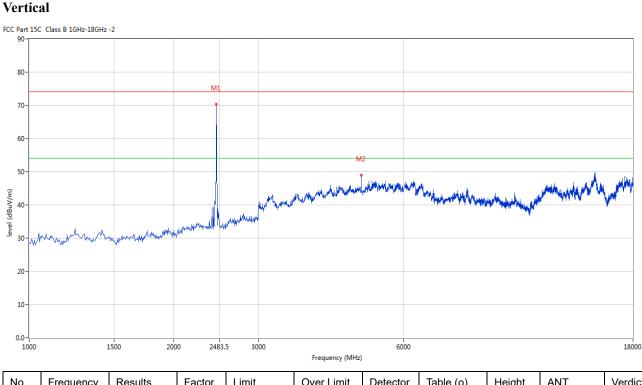


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2451.250	82.98	-3.57	114.0	-31.02	Peak	5.00	100	Horizontal	Pass
2	4901.500	48.30	3.22	74.0	-25.70	Peak	40.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2451.250	70.32	-3.57	114.0	-43.68	Peak	330.00	100	Vertical	Pass
2	4901.500	49.00	3.22	74.0	-25.00	Peak	246.00	100	Vertical	Pass

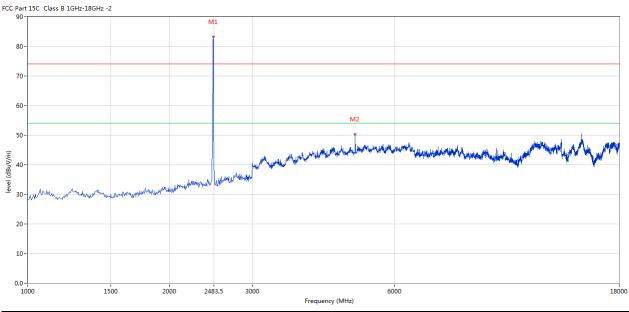
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## Please refer to the following test plots for details: High Channel-2475MHz

#### Horizontal

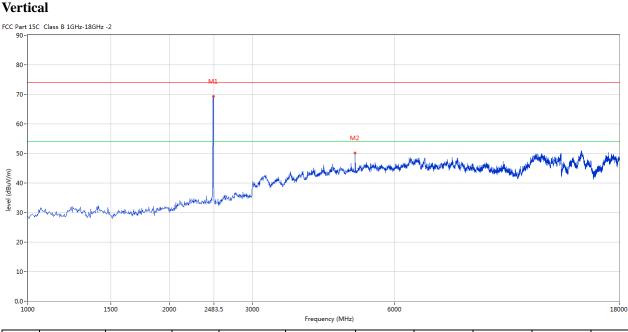


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2474.750	83.29	-3.57	114.0	-30.71	Peak	349.00	100	Horizontal	Pass
2	4952.500	50.33	3.34	74.0	-23.67	Peak	40.00	100	Horizontal	Pass

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No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2474.750	69.38	-3.57	114.0	-44.62	Peak	341.00	100	Vertical	Pass
2	4952.500	50.25	3.34	74.0	-23.75	Peak	245.00	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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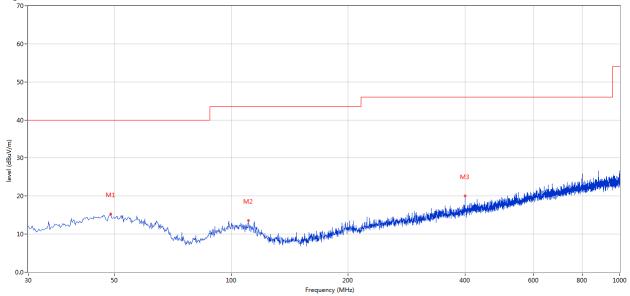
## B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

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 (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	48.910	15.35	-11.21	40.0	-24.65	Peak	18.00	100	Horizontal	Pass
2	110.732	13.53	-13.64	43.5	-29.97	Peak	53.00	100	Horizontal	Pass
3	399.963	20.00	-8.57	46.0	-26.00	Peak	321.00	100	Horizontal	Pass

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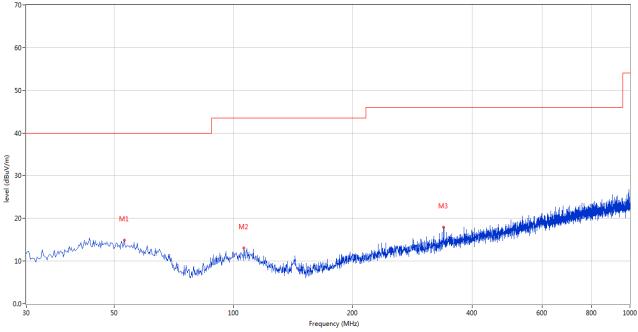
## Radiated Emission In Vertical (30MHz----1000MHz)

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 (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	53.032	14.89	-11.50	40.0	-25.11	Peak	2.00	100	Vertical	Pass
2	106.126	13.01	-13.32	43.5	-30.49	Peak	73.00	100	Vertical	Pass
3	339.110	17.99	-9.78	46.0	-28.01	Peak	34.00	100	Vertical	Pass

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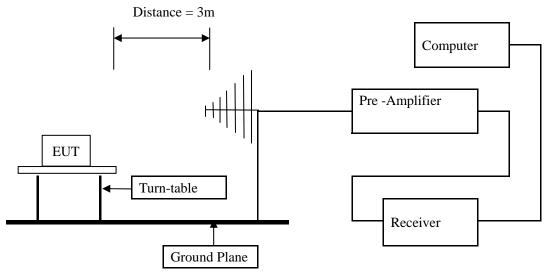


## 7. Band Edge

## 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

P	Product:		Wire	eless Mouse		Pola	arity		Horizonta	al
	Mode		Keepin	g Transmitti	ing	Test V	/oltage		DC3.0V	
Ter	mperature		24	4 deg. C,		Hum	nidity		56% RH	[
Tes	st Result:			Pass		-				
CC Part 15	5C Class B 1GHz-18GHz	-2								
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70- 60-							/	/ \		
							/		<u> </u>	
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( <sup>LL</sup> /N 40- ( <sup>RL</sup> /N 40- 30- 20- 10- 0.0-		Results	Factor	Limit		Detector	Table (o)	Height	ANT	
(E) 40	)				Frequency (MHz)	1	Table (o)	Height (cm)		2420
(E) 40	Frequency	Results	Factor	Limit	Frequency (MHz)	1	Table (o)	_		2420

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Р			Wireless Mouse			Detecto	or	Vertical		
	Mode		Keeping	eeping Transmitting Test Volt					DC3.0V	
Ten	nperature		24	24 deg. C,			ity	56% RH		
Tes	st Result:			Pass						
C Part 15 90-	iC Class B 1GHz-18GHz	-2					I			
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40- 30- 20- 10- 0.0-	Frequency	Results	Factor	Limit	Frequency (MHz)		Table (o)	Height	ANT	
40- 30- 20- 10- 2350	1	Results (dBuV/m)			Frequency (MHz)		Table (o)	Height (cm)	1	2420
40- 30- 20- 10- 2350	Frequency		Factor (dB)	Limit	Frequency (MHz)	Detector	Table (o) 65.00	•	1	2420

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P	Product:		Wirel	ess Mouse		Polari	ty		Horizontal		
	Mode		Keeping	Transmitti	ng	Test Volt	tage	DC3.0V			
Ter	mperature		24	deg. C,		Humid	ity		56% RH		
Te	st Result:			Pass							
C Part 15 90-r	5C Class B 1GHz-18GHz	-2									
80-				M1							
70-			/	< <u> </u>							
60-											
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50-						M2					
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40- 30- 20- 10-		Results	Factor	Limit	Frequency (MHz) Over Limit	2483.5	Table (o)	Height	Marken Alam San Alam Alam Alam Alam Alam Alam Alam Alam		
40- 30- 10- 0.0- 2460	)		Factor (dB)	Limit (dBuV/m)	· · ·	2483.5				2500	

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	Product: Wireless Mouse				Detect	or	Vertical			
Mode					Test Volt	age	Ι	DC3.0V		
Temperature		24 de	eg. C,		Humid	ity	5	56% RH		
Test Result:		Ра	ass							
CC Part 15C Class B 1GHz-: 90-r	8GHz -2									
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20- 10-		Factor	Limit			Table (o)	Height	ANT		
20- 10- 0.0- 2460			Limit (dBuV/m)	Frequency (MHz)	2483.5				2500	

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

2. 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.

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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 1.6dBi Max. It fulfills the requirement of this section. Test Result: Pass

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

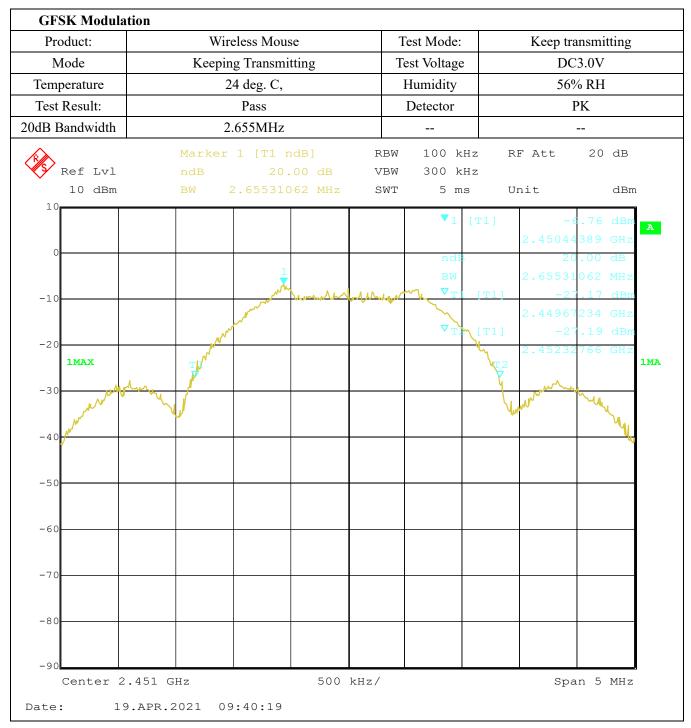
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FSK Modulation										
Product:	V	Vireless Mou	use		Test	Mode:		Keep tra	nsmitting	
Mode	Keeping Transmitting					Test Voltage		DC3.0V		
Temperature		24 deg. C,				Humidity		56% RH		
Test Result:		Pass				Detector		РК		
20dB Bandwidth	2.715MHz									
Ref Lvl	ndB		.00 dB		ЗW	100 k 300 k	Hz	RF Att	20 dB	
10 dBm	BW	2.715430	086 MHz	SI	11	5 m	S	Unit	dBn	n
						<b>V</b> 1	[T1]	-	5.11 dBm	
0								2.4051	3527 GHz	
				1		ndE BW		2.7154	0.00 dB 3086 MHz	
-10		monthe	hombur	M	~~~~	<b>₩</b> \_⊽ <sub>T1</sub>	<u>[T1]</u>	-2	5.47 dBm	n
10		N				Ny.	A.	2.4036	3226 GHz	:
-20	M	~				$\nabla_{\mathrm{T2}}$	2 <b>(</b> T1]	-2	5.73 dBm	n
1MAX	T 1						T2 *	2.4063	4770 GHz	11
-30	Ŵ							V	- Why	
-50										
-60										
-70										
-80										
-90 Center 2.405 (	247		500	노대국 /				<u>م</u>	an 5 MHz	
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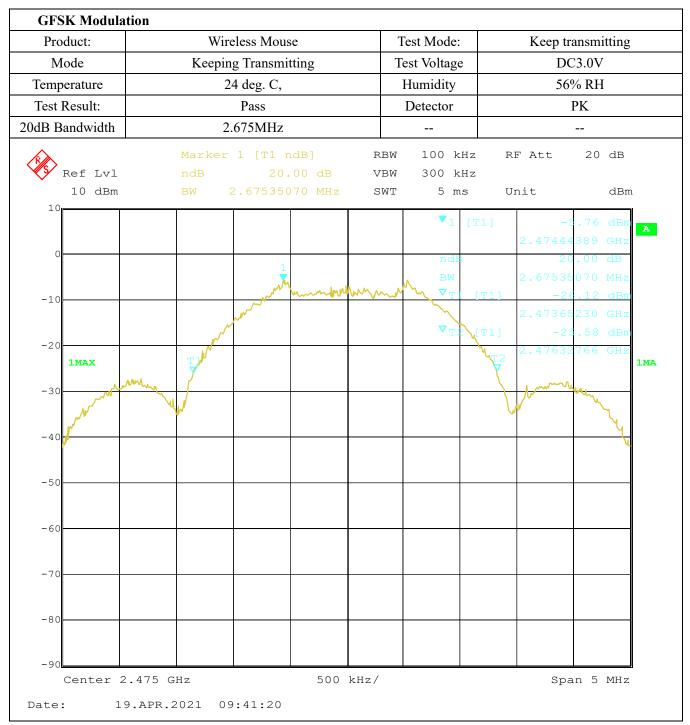




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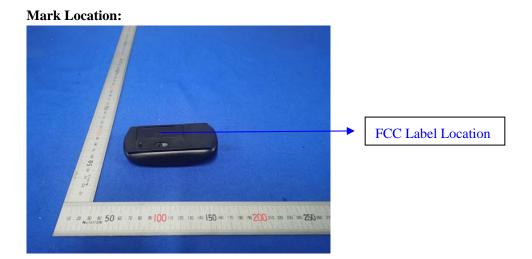


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## 10.0 FCC ID Label

## FCC ID: ZJE-ST131

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.



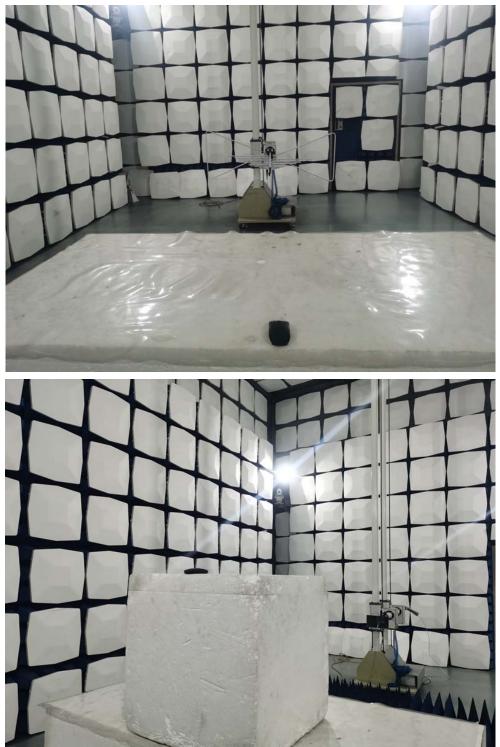
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#### 11.0 Photo of testing

11.1 Radiated emission test view



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#### 11.2 Photographs – EUT



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Outside view



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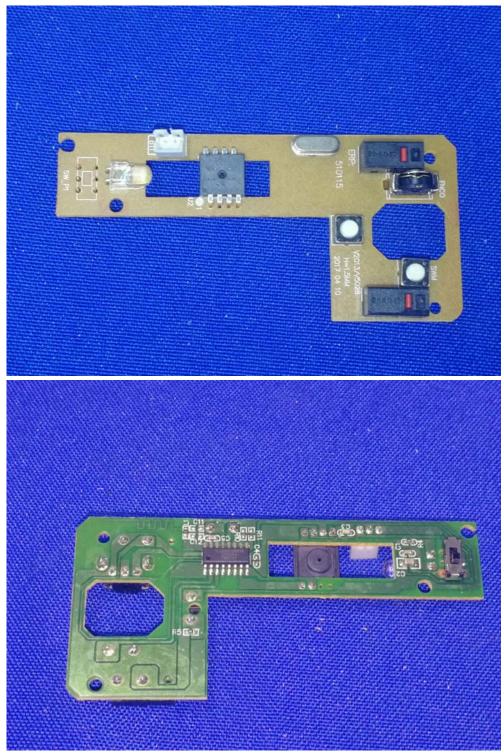
Inside view



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Inside view



--End of the report--

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