



Report No.: File Reference No.:	FCC1909103 2019-10-17
Applicant:	Eastern Times Technology Co., Ltd
Product:	Wireless Mouse
Model No.:	WM-56, DS-2509, DS-2859
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 C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: October 17, 2019

Results appearing herein relate only to the sample tested The technical r eports is issued err ors and omiss ions 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 SatesRegistration Number: 744189For 3m Anetor 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:	13077806581/0769-86800511
Fax:	

#### 1.3 Description of EUT

-	
Product:	Wireless Mouse
Manufacturer:	Eastern Times Technology Co., Ltd
Address:	Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,
	Dongguan City, Guangdong, China
Brand Name:	N/A
Model Number:	WM-56
Additional Model Name	DS-2509,DS-2859
Input Voltage:	DC1.5V, 1pcs AA battery
Modulation Type:	FSK
Operation Frequency	2408-2474MHz
Channel Seperation	2MHz
Antenna Designation	PCB antenna with gain 0dBi Max

#### 1.4 Submitted Sample

1 Sample

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- 1.5 Test Duration 209-09-16 to 2019-10-16
- 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	2019-06-21	2020-06-20
LISN	R&S	EZH3-Z5	100294	2019-06-21	2020-06-20
LISN	R&S	EZH3-Z5	100253	2019-06-21	2020-06-20
Ultra Broadband ANT	R&S	HL562	100157	2019-06-21	2020-06-20
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2019-06-21	2020-06-20
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24
Spectrum	R&S	FSIQ26	100292	2019-06-21	2020-06-20
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2019-06-21	2021-06-20
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08
Power meter	Anritsu	ML2487A	6K00003613	2019-08-22	2020-08-21
Power sensor	Anritsu	MA2491A	32263	2019-08-22	2020-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic			N/A	2018-02-07	2021-02-06
EMI Test Receiver	RS	ESVB	826156/011	2019-06-21	2020-06-20
EMI Test Receiver	RS	ESH3	860904/006	2019-06-21	2020-06-20
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2019-06-21	2020-06-20
Spectrum	HP/Agilent	E4407B	MY50441392	2019-06-21	2020-06-20
Spectrum	RS	FSP	1164.4391.38	2019-01-20	2020-01-19
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2019-06-21	2020-06-20
RF Cable	Zhengdi	7m		2019-06-21	2020-06-20
RF Switch	EM	EMSW18	060391	2019-06-21	2020-06-20
Pre-Amplifier	Schwarebeck	BBV9743	#218	2019-06-21	2020-06-20
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2019-06-21	2020-06-20
LISN	SCHAFFNER	NNB42	00012	2019-01-08	2020-01-07

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#### **3.0 T** echnical 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	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 T est 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

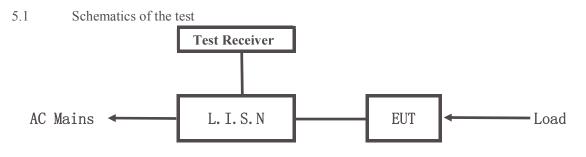
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### 5. Power Line Conducted Emission Test

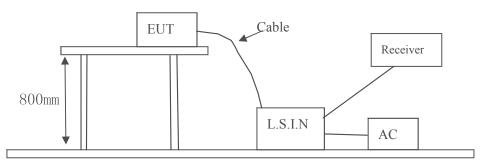


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 500hm/50uH as specified by section 5.1 of ANSI C63.4-2014.

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. One channels are provided to the EUT

A.	EUT
	201

Device	Manufacturer	Model	FCC ID
Winsless Massa	Eastern Times Technology	WM-56, DS-2509,	TIMDE 2500D
Wireless Mouse	Co., Ltd	DS-2859	TUVDS-2509B

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B. Internal Device

5.					
	Device Manufacturer		Model	FCC ID/SDOC	
	N/A				

#### C. Peripherals

Device Manufacturer		Model	FCC ID/SDOC/DOC

#### 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 15.107 and 15.207

	Class A Lir	nits (dB µ V)	Class B Lim	nits (dB µ V)	
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15~\sim~0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50~\sim~5.00$	73.0	60.0	56.0	46.0	
$5.00~\sim~30.00$	73.0	60.0	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

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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

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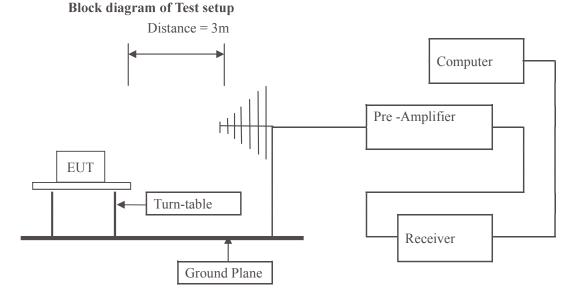
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#### **6 Radiated Emission Test**

- 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 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.



- 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 S	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.

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. 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. New battery were used during tests.X,Y,Z polarity of eut all have been tested ,only worse case is reported.

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#### 6.5 Test result

#### A Fundamental & Harmonics Radiated Emission Data

Product:	Wireless Mouse	Test Mode:	Keep transmitting-Low Channel
Test Item:	Fundamental Radiated Emission	Temperature:	25℃
	Data		
Test Voltage:	DC 1.5V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2408	93.80 (PK)	Н	114/94	-0.20
2408	82.78 (PK)	V	114/94	-11.22
4816	50.57 (PK)	Н	74/54	-3.43
4816	50.34 (PK)	V	74/54	-3.66
7224		H/V	74/54	
9632		H/V	74/54	
12040		H/V	74/54	
14448		H/V	74/54	
16856		H/V	74/54	
19264		H/V	74/54	
21672		H/V	74/54	
24080		H/V	74/54	

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Antenna Factor + Cable Loss - Pre-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

(6) The PK emission level less than the AV limit. No necessary to record the AV emission level.

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Product:	Wireless Mouse	Test Mode:	Keep transmitting-Middle Channel
Test Item:	Fundamental Radiated Emission	Temperature:	25°C
	Data		
Test Voltage:	DC 1.5V	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	( <b>dB</b> )
2440	92.51 (PK)	Н	114/94	-1.49
2440	82.38 (PK)	V	114/94	-11.62
4880	50.02 (PK)	Н	74/54	-3.98
4880	50.20 (PK)	V	74/54	-3.80
7320		H/V	74/54	
9760		H/V	74/54	
12200		H/V	74/54	
14640		H/V	74/54	
17080		H/V	74/54	
19520		H/V	74/54	
21960		H/V	74/54	
24400		H/V	74/54	

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Antenna Factor + Cable Loss - Pre-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

(6) The PK emission level less than the AV limit. No necessary to record the AV emission level.

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Product:	Wireless Mouse	Test Mode:	Keep transmitting-High Channel
Test Item:	Fundamental Radiated Emission	Temperature:	25°C
	Data		
Test Voltage:	DC 1.5V	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	( <b>dB</b> )
2474	91.71 (PK)	Н	114/94	-2.29
2474	81.08 (PK)	V	114/94	-12.92
4948	49.91 (PK)	Н	74/54	-4.09
4948	48.87 (PK)	V	74/54	-5.13
7422		Н	74/54	
7422		V	74/54	
9896		H/V	74/54	
12370		H/V	74/54	
14844		H/V	74/54	
17318		H/V	74/54	
19792		H/V	74/54	
22266		H/V	74/54	
24740		H/V	74/54	

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Antenna Factor + Cable Loss - Pre-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

(6) The PK emission level less than the AV limit. No necessary to record the AV emission level.

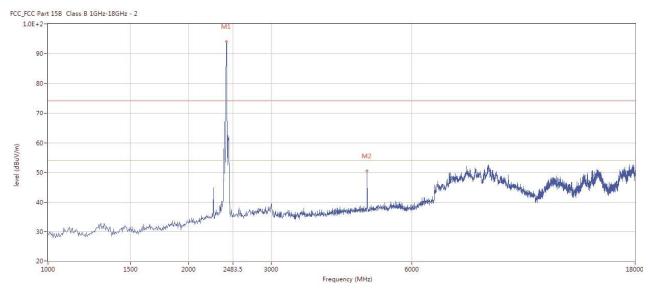
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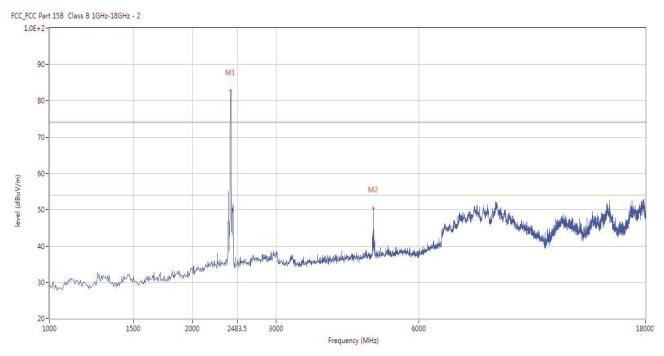


Please refer to the following test plots for details: Low Channel

#### Horizontal



#### Vertical



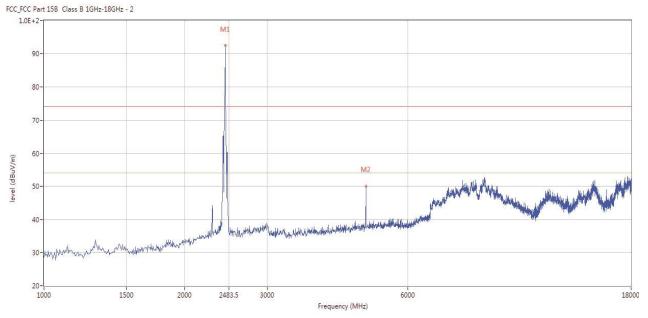
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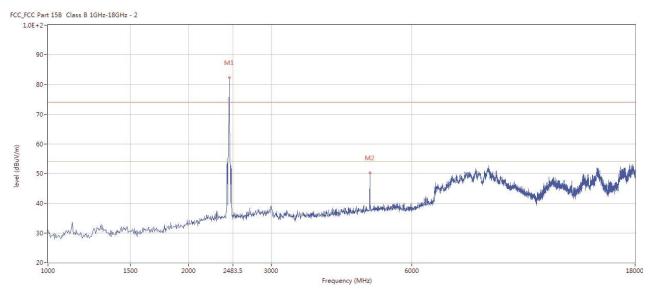


#### Please refer to the following test plots for details: Middle Channel

#### Horizontal



#### Vertical



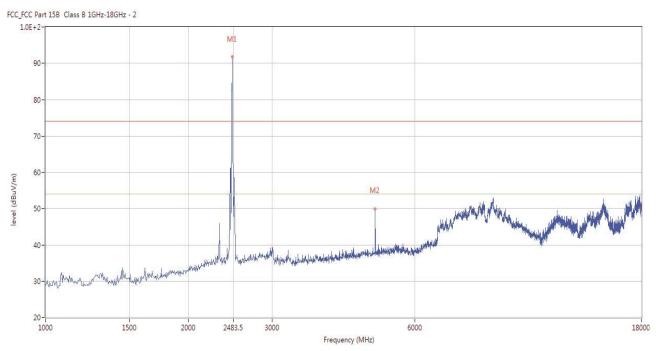
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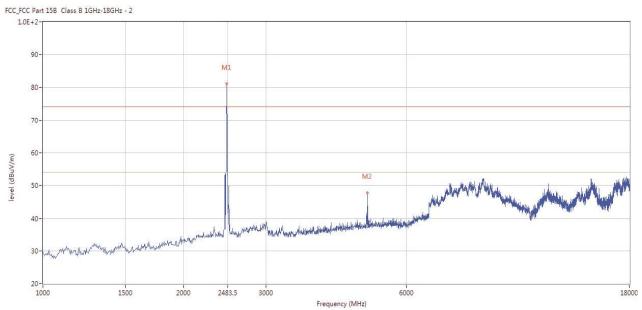


Please refer to the following test plots for details: High Channel

#### Horizontal



#### Vertical



For emission above 18GHz, It is only the floor noise. No necessary to take down.

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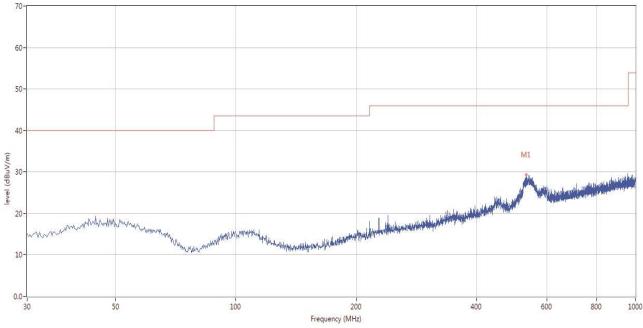
### B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### **Results:** Pass

Please refer to following diagram for individual

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



No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	532.334	29.27	-6.40	46.0	-16.73	Peak	86.00	200	Н	Pass

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V

Pass

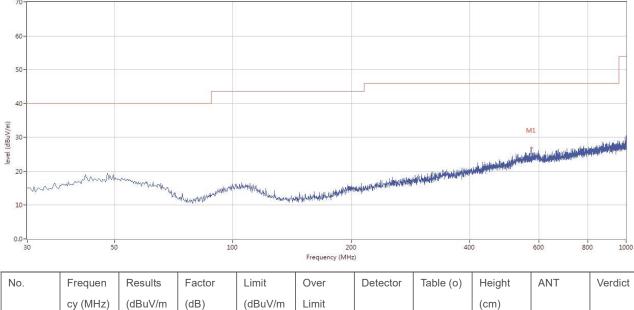
Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

#### **Results:** Pass

Please refer to following diagram for individual

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



(dB)

-19.05

Peak

360.00

200

)

46.0

-5.79

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)

26.95

574.276

1

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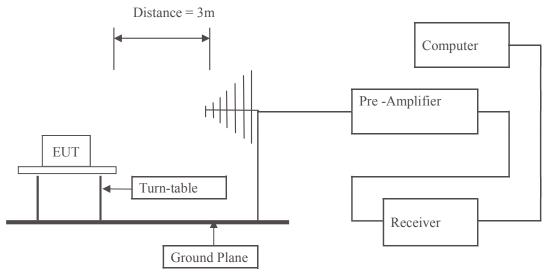


#### 7. Band Edge

### 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
- (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

	duct:		Wirele	ss Mouse		Pola	urity		Horiz	lontal
М	ode	ŀ	Keeping	Transmitting	b	Test V	oltage		DC1	.5V
Temp	erature		24 0	deg. C,		Hum	idity		56%	RH
[Test ]	Result:		F	Pass		-	-		-	-
	Class B 1GHz-18GHz - 2	5								
)E+2-										
90-								$- \sim$	\	
80-							~	1		
70-							$\wedge$	1		M
122750				$\wedge \land$				$\checkmark$	Y	$\langle \rangle$
60-						M	1			
				1	M2	1	J.			A ALL AND
50-				Martin	Martin Monte	X	W			
50-	and the second secon	A MARINE MARINE		and the second second	Mustalismu up		w.			
		And the state of t	dad adama	a de la companya de la	Manager and a second		99.94 <sup>44</sup>			2420
40-1		and the second secon	stat/~atriant		Frequency (MH	(z)				2420
40-1		Results	Factor	Limit		<sup>(z)</sup> Detector	Table	Height	ANT	2420 Verdict
40- 30- 2360		1	1	Limit (dBuV/m)	Frequency (MH		Table (o)	Height (cm)	ANT	
40- 30- 2360	Frequency	Results	Factor		Frequency (MH			-	ANT	
40- 30- 2360 No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	(dBuV/m)	Frequency (MH Over Limit (dB)	Detector	(o)	(cm)		Verdict
40- 30- 2360 No.	Frequency (MHz) 2400	Results (dBuV/m) 47.31	Factor (dB) -3.57	(dBuV/m) 54.0	Frequency (MH Over Limit (dB) -6.69	Detector AV	(o) 187.00	(cm) 100	н	Verdict Pass
40- 30- 2360 No. 1*	Frequency (MHz) 2400 2400	Results (dBuV/m) 47.31 55.02	Factor (dB) -3.57 -3.57	(dBuV/m) 54.0 74.0	Frequency (MH Over Limit (dB) -6.69 -18.98	Detector AV Peak	(o) 187.00 187.00	(cm) 100 100	H	Verdict Pass Pass
40- 30- 2360 No. 1* 1 2	Frequency (MHz) 2400 2400 2390	Results (dBuV/m) 47.31 55.02 48.61	Factor (dB) -3.57 -3.57 -3.53	(dBuV/m) 54.0 74.0 54.0	Frequency (MH Over Limit (dB) -6.69 -18.98 -5.39	Detector AV Peak Peak	(o) 187.00 187.00 1.00	(cm) 100 100 100	H H H	Verdict Pass Pass Pass
40- 30- 2360 No. 1* 1 2 3*	Frequency (MHz) 2400 2400 2390 2385.569	Results (dBuV/m) 47.31 55.02 48.61 51.33	Factor (dB) -3.57 -3.57 -3.53 -3.53	(dBuV/m) 54.0 74.0 54.0 54.0	Frequency (MH Over Limit (dB) -6.69 -18.98 -5.39 -2.67	Detector AV Peak Peak AV	(o) 187.00 187.00 1.00 22.00	(cm) 100 100 100 100	H H H	Verdict Pass Pass Pass Pass
40-40-40-40-40-40-40-40-40-40-40-40-40-4	Frequency (MHz) 2400 2400 2390 2385.569 2385.569	Results (dBuV/m) 47.31 55.02 48.61 51.33 65.68	Factor (dB) -3.57 -3.57 -3.53 -3.51 -3.51	(dBuV/m) 54.0 74.0 54.0 54.0 74.0	Frequency (MH           Over           Limit (dB)           -6.69           -18.98           -5.39           -2.67           -8.32	Detector AV Peak Peak AV Peak	(o) 187.00 187.00 1.00 22.00 22.00	(cm) 100 100 100 100 100	H H H H	Verdict Pass Pass Pass Pass Pass

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PI	oduct:		Wireless N	Mouse		Detector		1	Vertical	
N	Mode		Keeping Tran	nsmitting	]	Fest Voltag	e	Γ	DC1.5V	
Tem	perature		24 deg.	. C,		Humidity		5	6% RH	
Test	t Result:		Pass	3						
Part 158 90-	Class B 1GHz-18GHz	- 2								
80-								$\square$		
70-							0			
50-				M4 M3			$\bigwedge$		$\bigvee$	
				15 6						
50-			. /	$\bigwedge$	M2	M				- Charles
	aday selenteda da literari secolat	airdanishaithata	dun till manual provide and		M2	A Strange				
40-	and an and a state of the second state of the	ant-back-solvalah reference	dawe with manufacture days of		M2 Frequency (MHz)	Marcanni Lillianni	/1/			
40- 444 30-	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	have a second a second	Detector	Table (o)	Height (cm)	ANT	Verdict
40- 30- 2360 No.	Frequency	Results	Factor		Frequency (MHz)	and the second	Table	_	ANT V	Verdict
40- 30- 2360 No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	(dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	(cm)		
40- 30- 2360 No.	Frequency (MHz) 2400	Results (dBuV/m) 43.63	Factor (dB) -3.57	(dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) -30.37	Detector Peak	Table (o) 339.00	(cm) 100	V	Pass
40- 2360 No. 1 2 3	Frequency (MHz) 2400 2390	Results (dBuV/m) 43.63 38.05	Factor (dB) -3.57 -3.53	(dBuV/m) 74.0 74.0	Frequency (MHz) Over Limit (dB) -30.37 -35.95	Detector Peak Peak	Table (o) 339.00 117.00	(cm) 100 100	V V	Pass
40- 30- 2360	Frequency (MHz) 2400 2390 2385.524	Results (dBuV/m) 43.63 38.05 53.30	Factor (dB) -3.57 -3.53 -3.51	(dBuV/m) 74.0 74.0 74.0	Frequency (MHz) Over Limit (dB) -30.37 -35.95 -20.70	Detector Peak Peak Peak	Table (o) 339.00 117.00 149.00	(cm) 100 100 100	V           V           V           V	Pass Pass Pass

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Pro	oduct:		Wire	eless Mouse	2	Pola	rity		Horizont	tal
Ν	/lode		Keepin	g Transmitt	ting	Test Vo	oltage		DC1.5V	V
Temj	perature		24	4 deg. C,		Humi	dity		56% RI	H
Test	Result:			Pass						
Part 15B 1.0E+2-	Class B 1GHz-18GHz ·	- 2								
90-			$\sim$							
80-				<u> </u>						
70-		$\wedge$	/							
		$1 \times 1$		V			~		~	
60-		1 2			X		1	$\setminus$ /	1	
60- 50-	and a start and the start and the				And and a state	hard hardware		hand		
_	and the second				harring	have been h	he also have been a second sec	hand	And	Lundon and
50-	00 SO				2483.5 Frequency (I	Mathematik	In a backty ward of the	hand	A REAL PROPERTY OF	2
50- 40- 30-	Frequency	Results	Factor	Limit	2483.5	Mathematik	Table (o)	Height	ANT	<sup>1</sup> Magaz <sup>a</sup>
50- 40- 30- 246	I	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	2483.5 Frequency (I	MHz)		Height (cm)		2
50- 40- 30- 246	Frequency				2483.5 Frequency (I Over Limit	MHz)		-		2
50- 40- 30- 246	Frequency (MHz)	(dBuV/m)	(dB)	(dBuV/m)	2483.5 Frequency (I Over Limit (dB)	MHz) Detector	Table (o)	(cm)	ANT	Verdict
50- 40- 246 No.	Frequency (MHz) 2483.5	(dBuV/m) 52.22	(dB) -3.57	(dBuV/m) 54.0	2483.5 Frequency (I Over Limit (dB) -1.78	MHz) Detector Peak	Table (o) 187.00	(cm) 100	ANT H	2 Verdict Pass
50- 40- 30- 246	Frequency (MHz) 2483.5 2495.591	(dBuV/m) 52.22 48.55	(dB) -3.57 -3.57	(dBuV/m) 54.0 54.0	2483.5 Frequency (f Over Limit (dB) -1.78 -5.45	MHz) Detector Peak AV	Table (o) 187.00 187.00	(cm) 100 100	ANT H H	Verdict Pass Pass

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Product:								tor	Vertical			
Mode				Keeping	g Transmitti	Test Vol	ltage	DC1.5V				
Temperature		erature		4 deg. C,	Humic	lity	56% RH					
-	Гest I	Result:		Pass								
2483.5MHz		.5MHz	PK (dBμV/m) 41			1.73	73 Limit		$74 \ dB \mu V/m$			
2	2483.	.5MHz	AV (dBµ	ιV/m)			Lim	Limit 5			/m	
	rt 15B Cl	Class B 1GHz-18GHz -	2		I	22						
	90-			$\square$	\							
	70- 60- 50- 40-	week and a second	$\bigwedge$			Jurimuk	is and the state of the state o	11			200. j. h	
	60- 50- 40-	with the second	$\bigwedge$			Jurdinale	and the state of t	Harrison and		Nonigramite	un and the second level of the	
	60- 50- 40-	Marine Company	$\bigwedge$			2483.5 Frequency (I		Harrison and		Manifronisis	CELL CONTRACT	
	60- 50- 40- 30- 2460	Frequency	Results	Factor	Limit			Table (o)	Height	ANT	and a second second	
	60- 50- 40- 2460		Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (I	MHz)	Table (o)	Height (cm)		251	

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. The antenna gain is 0dBi Max. It fulfills the requirement of this section. Test Result: Pass

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Product:	Wireless Mouse		Test Mode:	Keep tr	ansmitting		
Mode	Keeping Transmitting		Test Voltage				
Temperature	24 deg. C,		Humidity	569	% RH		
Test Result:	Pass		Detector	РК			
0dB Bandwidth	2.096MHz						
Ref Lvl 0 dBm	Delta 1 [T1] 0.47 dB 2.09619238 MH:	V	RBW 30 k VBW 100 k SWT 14 m	Hz	10 dB dBm		
-10 -20 -30 D1 -28.96 c 1MAX -40 -50 -60 -70 -80 -90				[T1] -2 2.4070 [T1] 2.0961 [T1] -	28.24 dBm A		
.100 Center 2.408	3 GHz 500	kHz/		Gr	ban 5 MHz		

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Product:	Wireless Mouse				est Mode:		Keep transmitting			
Mode	Keeping Transmitting				est Voltage		DC1.5V			
Temperature	2	]	Humidity		56% RH					
Test Result:			Detector		Р	K				
20dB Bandwidth	2									
Ref Lvl	Delta 1		90 dB	RBW VBW	30 k 100 k		F Att	10 dB		
0 dBm	2	2.104208	42 MHz	SWT	14 m	s U	nit	dBm	1	
-10			0	0	▼1 2 ▼ ▲1	(T1) [T1]	- 0	307 GHz .90 dB	A	
-20			$A_{-\alpha}$		<b>v</b> <sub>2</sub>	[T1]	2.10420	842 MHz .19 dBm		
	dBm			" Jun		$\Lambda$	2.44058	617 GHz		
						- hy		Λ	1112	
	m					L L		1 <sub>4</sub>		
-50								<u>\</u>		
-70										
-80										
-90										
-100 Center 2.4	4 GHz		500	kHz/			Spa	n 5 MHz		

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Product:	Win	Т	est Mode:		Keep transmitting				
Mode	Keepii	Te	est Voltage		DC1.5V				
Temperature	2	]	Humidity		56% RH				
Test Result:			Detector		Р	K			
0dB Bandwidth	2								
R A	Delta 1 [T1]			RBW	30 k	Hz R	FAtt 10 dE		3
🛛 Ref Lvl		0.	11 dB	VBW	100 k				
0 dBm	2	2.104208	42 MHz	SWT	14 m	s U	nit	dBm	l
0					<b>v</b> <sub>1</sub>	[T1]	-28	.28 dBm	A
					2		2.47303	307 GHz	A
-10				0	<b>A</b> 1	[T1]	(	.11 dB	
			$\Lambda$	$\Lambda$	/ \		2.10420		
-20					<b>▽</b> <sub>2</sub>	<u>[T1]</u>		.29 dBm	1
D1 -29,29	) dBm	And	$\checkmark$		5/	$\Lambda$	2.47458	617 GHz	
-30 DI -29.29					V	· / /			1M2
-40						<u> </u>		Λ	
	w h					Ĺ		1 hrs	
-50								<u> </u>	
-70									
-80									
-90									
-100									ļ
Center 2.4	74 GHz		500	kHz/			Spa	an 5 MHz	

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#### 10.0 FCC ID Label

#### FCC ID: TUVDS-2509B

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:



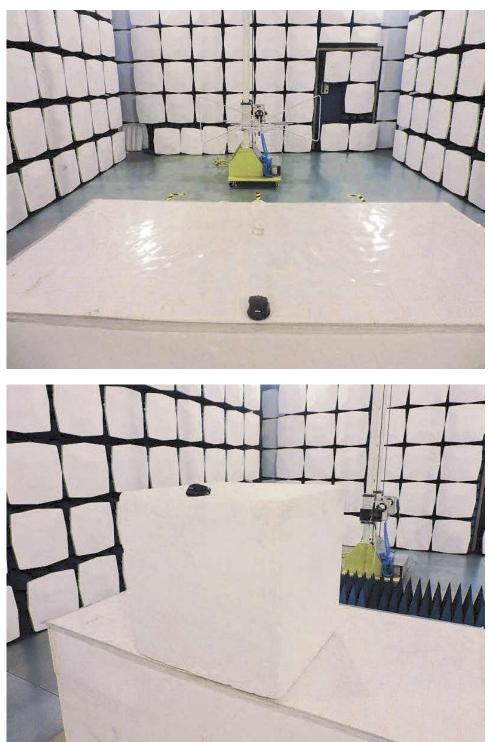
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#### 11.0 **Photo of testing**

11.1 Radiated emission test view



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#### 11.2 Photographs - EUT

Outside View



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Outside View



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Inside view



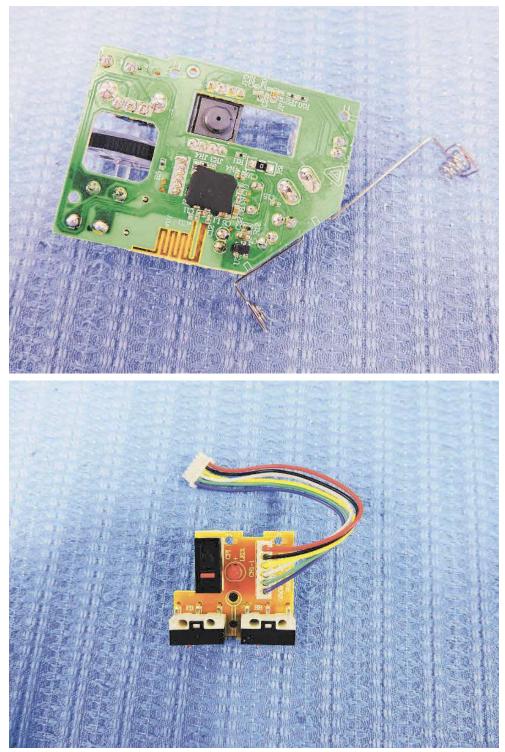
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Inside view



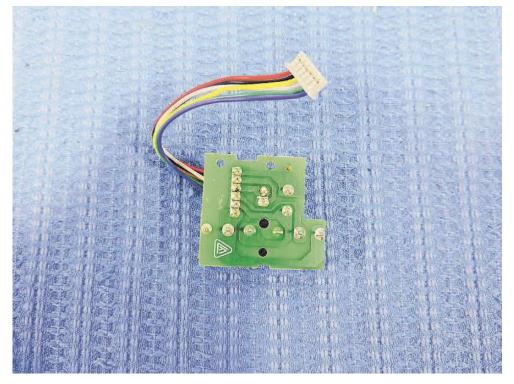
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Inside view



--End of the report--

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