

Report No.: TW2411121E

Applicant: Eastern Times Technology Co., Ltd

Product: 2.4G wireless mouse

Model No.: BM-4054, DS-4054, BS-7094

Trademark: REDRAGON

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

Term lang

Terry Tang

Manager

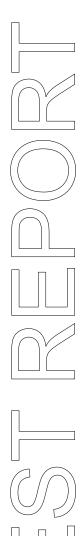
Dated: November 14, 2024

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

## SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail: info@timeway-lab.com



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## **Special Statement:**

## 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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# Test Report Conclusion

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FCC ID Label.

Photo of Test Setup and EUT View.

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#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

## 1.2 Applicant Details

Applicant: Eastern Times Technology Co., Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City,

Guangdong, China.

## 1.3 Description of EUT

Product: 2.4G wireless mouse

Manufacturer: Eastern Times Technology Co., Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town,

Dongguan City, Guangdong, China.

Trademark: REDRAGON
Model Number: BM-4054

Additional Model Name DS-4054, BS-7094 Rating: DC1.5V, 6mA

Battery DC1.5V, 1pc AA battery

Modulation Type: GFSK

Operation Frequency: 2403-2480MHz

Channel List (Unit: MHz): 2403, 2422, 2441, 2463, 2407, 2436, 2459, 2466, 2414, 2419, 2439, 2453,

2426, 2445, 2473, 2480

Hardware Version: 2601-H TX V1 Software Version: F29606BC

Serial No.: BS-7094240801746

Antenna Designation PCB antenna with gain 2.34dBi Max (Get from the antenna specification)

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

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2024-11-12 to 2024-11-14

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

Conducted Emissions Uncertainty = 3.6dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Print Name: Andy Xing

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	2024-07-12	2025-07-11				
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11				
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11				
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11				
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17				
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11				
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	2025-07-17				
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11				
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11				
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	2024-07-12	2025-07-11				
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11				
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11				
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11				
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA		2024-07-12	2025-07-11				
RF Cable	Zhengdi	7m		2024-07-12	2025-07-11				
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11				
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11				
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11				
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11				
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11				

## 2.2 Automation Test Software

## For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

## For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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## 3.0 Technical Details

## 3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	Pass	Complies
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	N/A
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

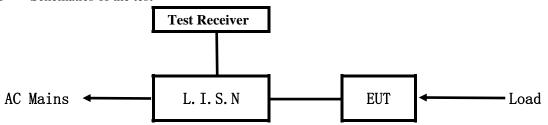
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## 5. Power Line Conducted Emission Test

## 5.1 Schematics of the test



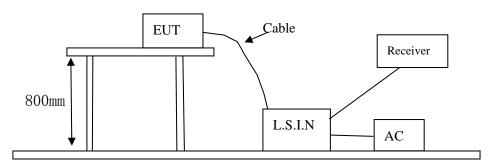
**EUT: Equipment Under Test** 

## 5.2 Test Method and test Procedure

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

Test Voltage: N/A

Block diagram of Test setup



## 5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

16 channels are provided to the EUT

## A. EUT

Device	Manufacturer	Model	FCC ID	
2.4G wireless mouse	Eastern Times Technology	BM-4054, DS-4054,	TUVDS-2601H	
	Co., Ltd	BS-7094		

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## B. Internal Device

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 C63.4 -2014

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency	Limits (dB 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 ~ 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 AA battery, so this test item not applicable.

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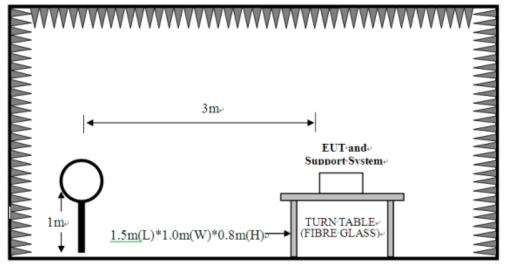


## **6** Radiated Emission Test

- 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

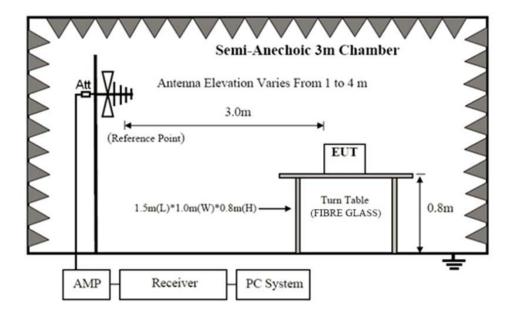


For radiated emissions from 30MHz to1GHz

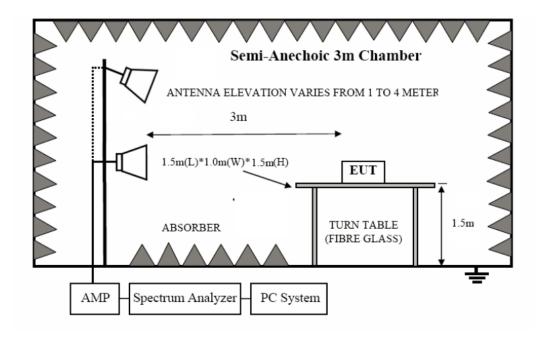
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For radiated emissions above 1GHz



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

  Same as section 5.4 of this report.

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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

Ī	Fundamental Frequency	Field Stre	ength of Fundame	ntal (3m)	Field Strength of Harmonics (3m)			
	(MHz)	mV/m	nV/m dBuV/m			dBu	V/m	
	2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)	

Note:

- 1. RF Field Strength  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2.Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
- 3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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

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. 05	3	20log(24000/F(kHz)) +40log (30/3)
1.705-30	3	69.5
30-80	3	40.0
88-216	3	43.5
21 -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. For radiated emissions from 9kHz to 30MHz, the emission level is much less than the limit for more than 20dB. No necessary to take down the record.
- 6. New battery was used during tests.

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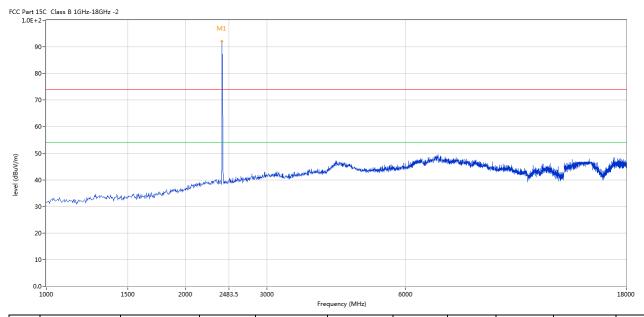


## 6.5 Test result

## A Fundamental & Harmonics Radiated Emission Data

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

## Horizontal



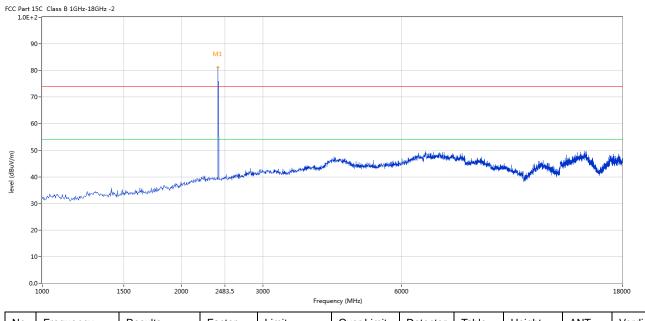
1	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	1	2403	92.07	-3.57	114.0	-21.93	Peak	48.00	100	Horizontal	Pass

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## Vertical



1	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
7	1	2403	81.13	-3.57	114.0	-32.87	Peak	20.00	100	Vertical	Pass

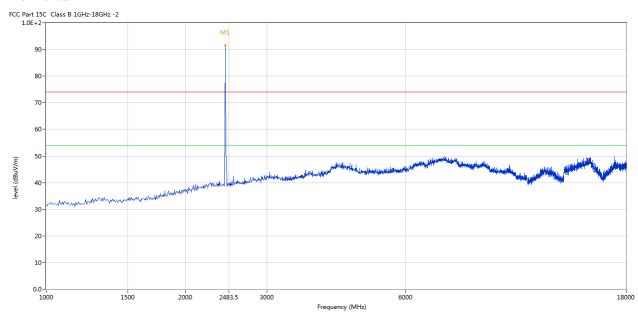
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Please refer to the following test plots for details: Middle Channel-2441MHz

## **Horizontal**



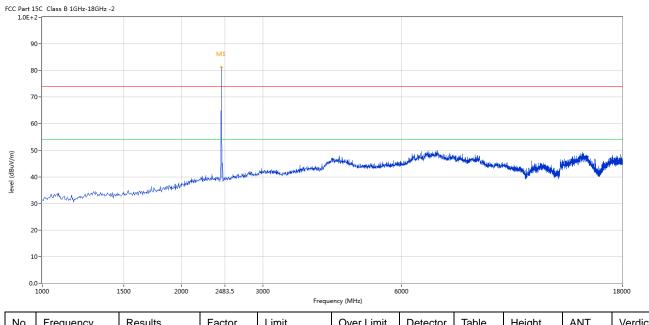
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	91.50	-3.57	114.0	-22.50	Peak	276.00	100	Horizontal	Pass

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## Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	81.16	-3.57	114.0	-32.84	Peak	28.00	100	Vertical	Pass

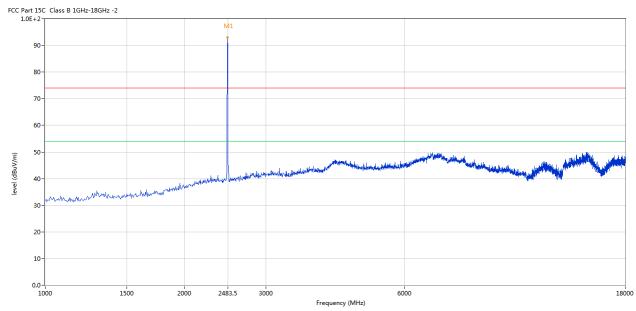
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Please refer to the following test plots for details: High Channel-2480MHz

## Horizontal



Ī	No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
		(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
	1	2480	92.95	-3.57	114.0	-21.05	Peak	176.00	100	Horizontal	Pass

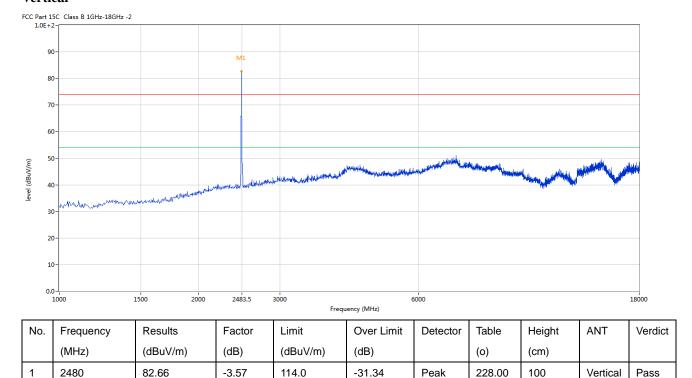
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## Vertical



Note: (2) Emission Level = Reading Level + Antenna Factor + Cable Loss-Amplifier

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

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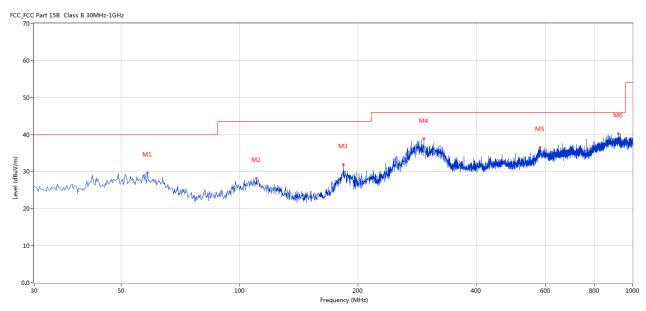


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	58.365	29.62	-5.02	40.0	10.38	Peak	233.00	100	Horizontal	Pass
2	110.490	28.19	-5.95	43.5	15.31	Peak	137.00	100	Horizontal	Pass
3	183.707	31.89	-7.31	43.5	11.61	Peak	285.00	100	Horizontal	Pass
4	294.501	38.83	-4.04	46.0	7.17	Peak	271.00	100	Horizontal	Pass
5	581.550	36.53	1.73	46.0	9.47	Peak	88.00	100	Horizontal	Pass
6	920.237	40.22	5.60	46.0	5.78	Peak	252.00	100	Horizontal	Pass

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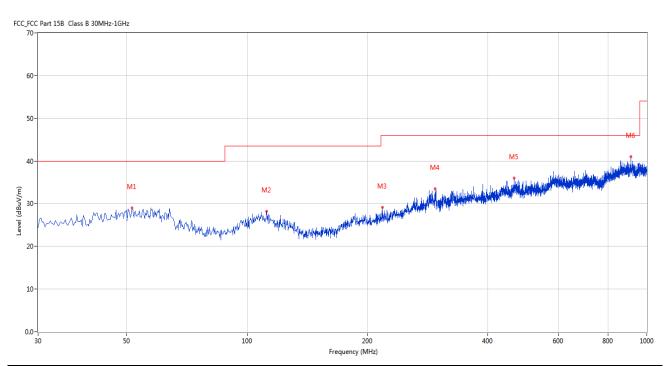


## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	51.577	29.00	-4.90	40.0	11.00	Peak	266.00	100	Vertical	Pass
2	111.945	28.24	-6.13	43.5	15.26	Peak	309.00	100	Vertical	Pass
3	217.891	29.13	-6.35	46.0	16.87	Peak	321.00	100	Vertical	Pass
4	295.471	33.55	-3.95	46.0	12.45	Peak	317.00	100	Vertical	Pass
5	465.664	36.01	-0.51	46.0	9.99	Peak	3.00	100	Vertical	Pass
6	912.237	41.05	5.24	46.0	4.95	Peak	134.00	100	Vertical	Pass

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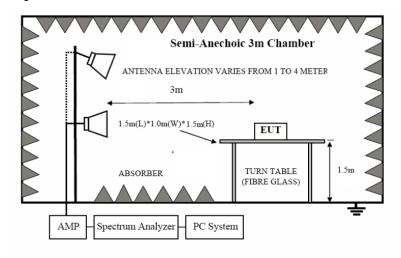


## 7. Band Edge

## 7.1 Test Method and test Procedure:

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

## 7. 2 Radiated Test Setup



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

## 7.3 Configuration of the EUT

Same as section 5.3 of this report

## 7.4 EUT Operating Condition

Same as section 5.4 of this report.

## 7.5 Band Edge Limit

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

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

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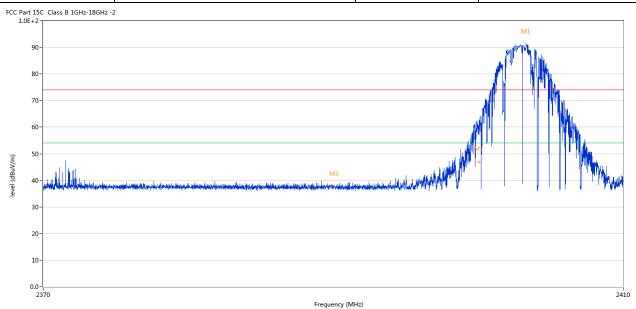
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## 7.6 Test Result

Product:	2.4G wireless mouse	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC1.5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
2403.252	91.06	-3.57	74.0	17.06	Peak	170.00	100	Horizontal	N/A
2400.000	62.34	-3.57	74.0	-11.66	Peak	62.78	100	Horizontal	Pass
2400.000	46.89	-3.57	54.0	-7.11	AV	62.78	100	Horizontal	Pass
2390.000	37.58	-3.53	74.0	-36.42	Peak	276.50	100	Horizontal	Pass
	(MHz) 2403.252 2400.000 2400.000	(MHz) (dBuV/m) 2403.252 91.06 2400.000 62.34 2400.000 46.89	(MHz)     (dBuV/m)     (dB)       2403.252     91.06     -3.57       2400.000     62.34     -3.57       2400.000     46.89     -3.57	(MHz)     (dBuV/m)     (dB)     (dBuV/m)       2403.252     91.06     -3.57     74.0       2400.000     62.34     -3.57     74.0       2400.000     46.89     -3.57     54.0	(MHz)     (dBuV/m)     (dB)     (dBuV/m)     (dB)       2403.252     91.06     -3.57     74.0     17.06       2400.000     62.34     -3.57     74.0     -11.66       2400.000     46.89     -3.57     54.0     -7.11	(MHz)     (dBuV/m)     (dB)     (dBuV/m)     (dB)       2403.252     91.06     -3.57     74.0     17.06     Peak       2400.000     62.34     -3.57     74.0     -11.66     Peak       2400.000     46.89     -3.57     54.0     -7.11     AV	(MHz)     (dBuV/m)     (dB)     (dBuV/m)     (dB)       2403.252     91.06     -3.57     74.0     17.06     Peak     170.00       2400.000     62.34     -3.57     74.0     -11.66     Peak     62.78       2400.000     46.89     -3.57     54.0     -7.11     AV     62.78	(MHz)     (dBuV/m)     (dB)     (dBuV/m)     (dB)       2403.252     91.06     -3.57     74.0     17.06     Peak     170.00     100       2400.000     62.34     -3.57     74.0     -11.66     Peak     62.78     100       2400.000     46.89     -3.57     54.0     -7.11     AV     62.78     100	(MHz)     (dBuV/m)     (dB)     (dB)     (o)     (cm)       2403.252     91.06     -3.57     74.0     17.06     Peak     170.00     100     Horizontal       2400.000     62.34     -3.57     74.0     -11.66     Peak     62.78     100     Horizontal       2400.000     46.89     -3.57     54.0     -7.11     AV     62.78     100     Horizontal

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Date: 2024-11-14	

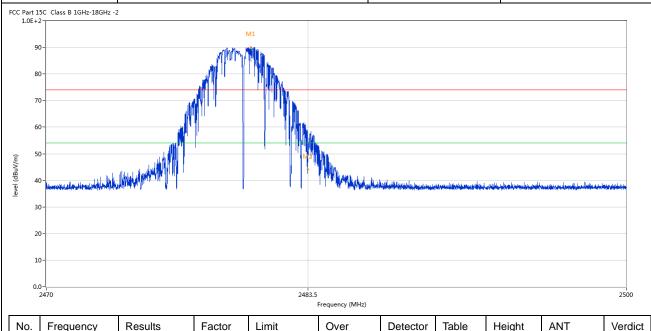
	Product:		2.4G	wireless mo	use	De	etector		Vertica	1
	Mode		Keepi	ng Transmit	ting	Test	Voltage		DC1.5V	V
	Temperature			24 deg. C,		Hu	midity		56% RI	Н
	Test Result:			Pass						
C Part 1	15C Class B 1GHz-18GHz	z -2								
5 5 5 5 4 4 3 3		nd of high teachers, do will be not support to the second support to the second support to the second support	nisioodus medikalah disk	1.0 milyally rich mills de synya and she dya	M3	land health of the state of the state of	Necessary Constitution of the Assessment of the	M		whateaug
0	0-				Frequency (Mi	iz)				241
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdi
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2403.282	80.06	-3.57	74.0	6.06	Peak	15.00	100	Vertical	N/A
	0.400.000	00.05	0.57	740	05.05	<b>.</b>	004.00	400	.,	_

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Product:	2.4G wireless mouse	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC1.5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		



No.	Frequency	Results	Factor	Limit	Over	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)		(o)	(cm)		
1	2480.535	90.03	-3.57	74.0	16.03	Peak	83.00	100	Horizontal	N/A
2	2483.500	59.11	-3.57	74.0	-14.89	Peak	278.00	100	Horizontal	Pass
2**	2483.500	44.10	-3.57	54.0	-9.90	AV	278.00	100	Horizontal	Pass

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J	Product:	2.4	G wireles	s mouse	1	Detector		Ve	ertical	
	Mode	Ke	eping Trar	nsmitting	Tes	st Voltage		D	C1.5V	
Te	mperature		24 deg.	С,	Н	lumidity		56	% RH	
Te	est Result:		Pass	1						
C Part 1	15C Class B 1GHz-18GHz	-2								
9	0-									
0	30-		M1							
				value.						
7	70-									
6	50-			.M2						
	JIII									
. 5	50- 40-		<del>                                     </del>							
. 5	10-	tone sharpman property ship had			Wash Mystermathown with a south	inami hadharahkad haranga	harrakorpanjan albara ja ja ja jak	brighter grands pronting on a description	والمنافق أدانا والمنافذ فوالمناد والمهودة والموسولة	njonglatean-flea
4	10-	tone designation with the file			Nice begging of the made in course	ipaneniya de a weka sekila hayayi d	h wanders week allers yn de hyddi.	المستواه ويصدف إنفاء المستواه والمعادر والمعادر المستواه والمعادر والمعادر والمعادر والمعادر والمعادر والمعادر	به طفاعيد الدنز البطنة الباسليد المجاهد الإصوب وأو	dendale en filon
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31	10 - Wilderdorten in commission freedomission of the commission of	tons discount of the party of t			Mindpopping phononic consequence	tenning penghant penghant a	k sind on the side of the side	hoù ayenie handan e d'an hidh	والمالي أو الإنسانية المواجعة والموسولة	then also disq
4 3 2 2 1		transitivement personne of the Asia			Windpopping and home have been presented	generitarika iska iskhi ngojed	k and on a gas, also see the last	hadayanishanishanishanish	offennope, designed in individual part of mobile o	den describe
4 4 3 2 1 1 O.	10	hansilayaran parang dika kaji il		2483.5 Fr	equency (MHz)	izenninaskenskenskelderegen	k makes dan diserce de andie	loojayaan waxaa ee dhaahaff	وفاقير الموافقة فيتما أوافية الموافقة الموافقة الموافقة الموافقة الموافقة الموافقة الموافقة الموافقة الموافقة ا	2500
4 3 2 1 1 O.		Results	Factor			Detector	Table	Height	ANT	2500
4 3 2 1 0 .	00- 00- 00- 00- 00- 00- 00-	Results (dBuV/m)	Factor (dB)	Fr	equency (MHz)				1-17/100-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	2500
3:	o- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-			Limit	equency (MHz)  Over Limit		Table	Height	1-17/100-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	

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

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## 8.0 Antenna Requirement

## **Applicable Standard**

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

This product has a PCB antenna. The antenna gain is 2.34dBi Max. It fulfills the requirement of this section. Test Result: Pass

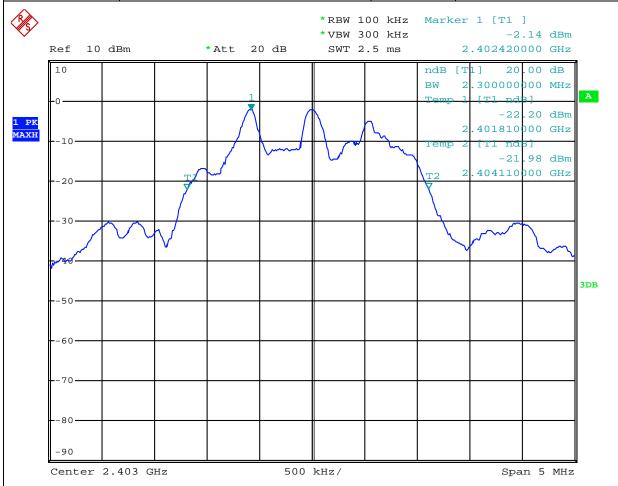
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9.0 20dB Bandwidth Measurement					
Product:	2.4G wireless mouse	Test Mode:	Keep transmitting		
Mode	Keeping Transmitting	Test Voltage	DC1.5V		
Temperature	24 deg. C,	Humidity	56% RH		
Test Result:	Pass	Detector	PK		
20dB Bandwidth	2.300MHz				



Date: 14.NOV.2024 14:08:56

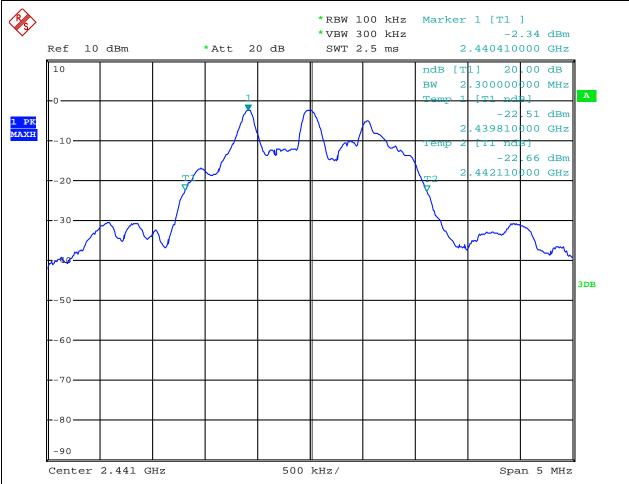
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Product:	2.4G wireless mouse	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC1.5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.300MHz		



Date: 14.NOV.2024 14:13:10

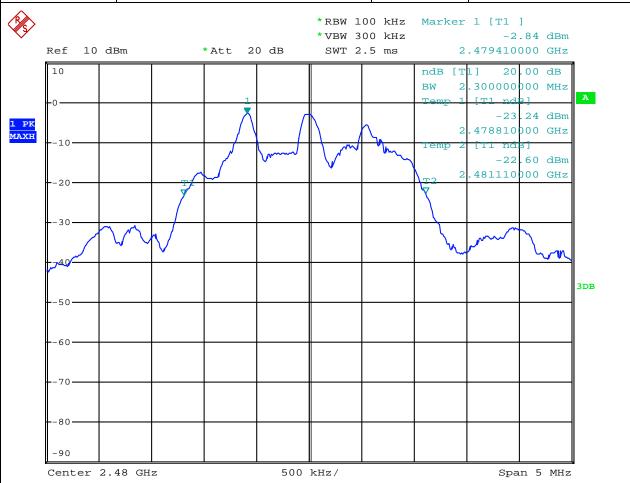
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Product:	2.4G wireless mouse	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC1.5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.300MHz		



Date: 14.NOV.2024 13:37:08

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## 10.0 FCC ID Label

## FCC ID: TUVDS-2601H

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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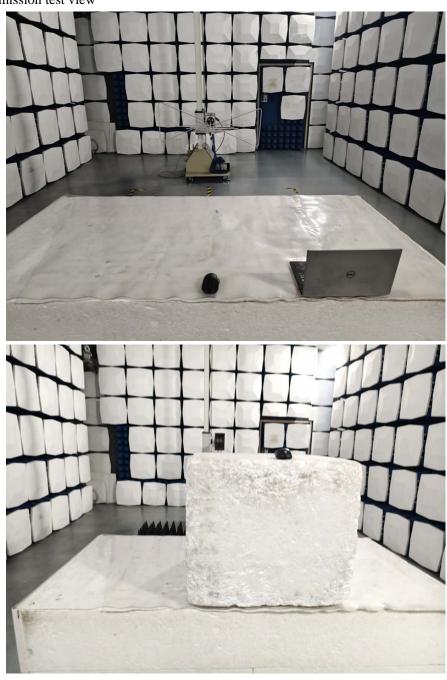


11.0 Photo of testing

11.1 Conducted test View--

N/A

## Radiated emission test view



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#### 11.2 Photographs - EUT

## Outside View-Mouse





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Outside View-Mouse





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Outside View-Mouse





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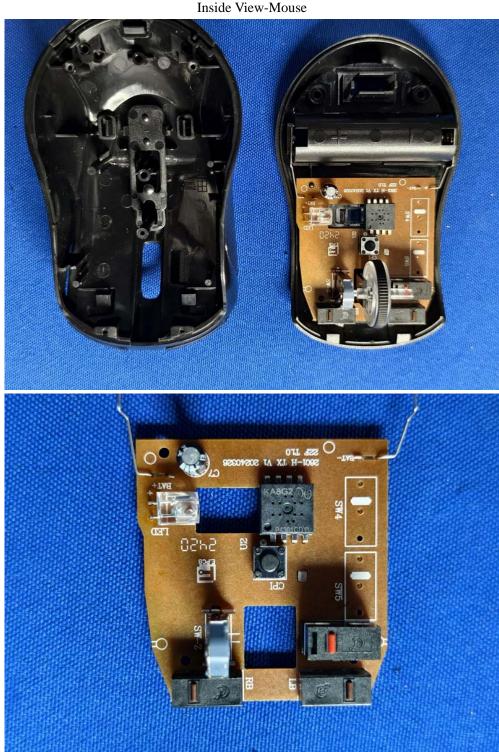
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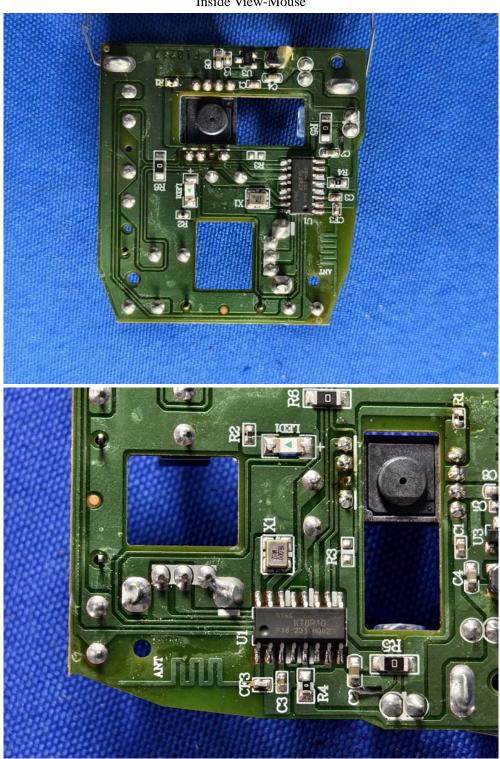
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Inside View-Mouse



-- End of the Report--

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