

Report No.: TW2409114-02E

Applicant: Eastern Times Technology Co., Ltd

Product: WIRED/2.4G/BT WIRELESS GAMING MOUSE

Model No.: M612RGB-PRO, M612W-RGB-PRO, M612WG-RGB-PRO,

DS-2851

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

Terry Tang

Manager

Dated: September 19, 2024

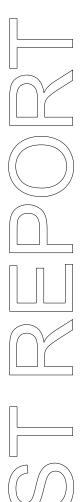
Results appearing herein relate only to the sample tested

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

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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

39

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# Test Report Conclusion

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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: WIRED/2.4G/BT WIRELESS GAMING MOUSE

Manufacturer: Eastern Times Technology Co., Ltd

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

Dongguan City, Guangdong, China.

Trademark: REDRAGON

Additional Trademark: N/A

Model Number: M612RGB-PRO

Additional Model Name M612W-RGB-PRO, M612WG-RGB-PRO, DS-2851

Hardware Version: 2851-G TX V1

Software Version: 358fa702

Serial No.: RDM612RGB-PRO24052001298

Rating: Input: DC5V, 320mA or DC3.7V, 40mA

Battery: DC3.7V, 1000mAh Li-ion battery

Modulation Type: GFSK

Operation Frequency: 2402-2480MHz

Channel Separate: 1MHz Channel Number: 79

Antenna Designation PCB antenna with gain -2.39dBi Max (Get from the antenna specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2024-09-11 to 2024-09-19

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: 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	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	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

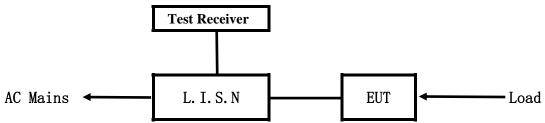
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#### 5. Power Line Conducted Emission Test

# 5.1 Schematics of the test

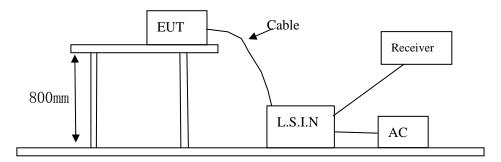


**EUT: Equipment Under Test** 

#### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/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

#### A. EUT

Device	Manufacturer	Model	FCC ID
		M612RGB-PRO,	
WIRED/2.4G/BT WIRELESS	Eastern Times	M612W-RGB-PRO,	TIMDC 2051C
GAMING MOUSE	Technology Co., Ltd	M612WG-RGB-PRO,	TUVDS-2851G
		DS-2851	

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#### B. Internal Device

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 (d	IB μV)
(MHz)	Quasi-peak Level	Average Level
$0.15 \sim 0.50$	66.0~56.0*	56.0~46.0*
0.50 ~ 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:

Pass

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# A: Conducted Emission on Live Terminal (150kHz to 30MHz)

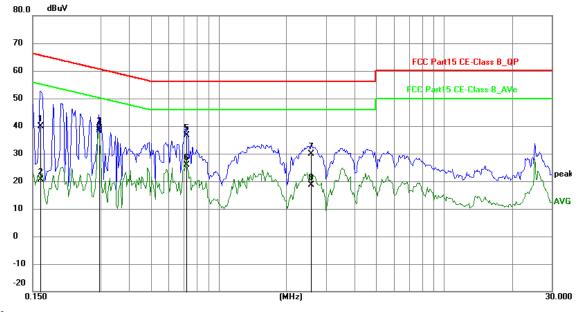
# **EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging and Communication by BT** 

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1617	30.15	9.78	39.93	65.38	-25.45	QP	Р
2	0.1617	10.96	9.78	20.74	55.38	-34.64	AVG	Р
3	0.2943	29.28	9.76	39.04	60.40	-21.36	QP	Р
4	0.2943	28.60	9.76	38.36	50.40	-12.04	AVG	Р
5	0.7194	26.97	9.78	36.75	56.00	-19.25	QP	Р
6	0.7194	16.08	9.78	25.86	46.00	-20.14	AVG	Р
7	2.5719	20.02	9.82	29.84	56.00	-26.16	QP	Р
8	2.5719	8.81	9.82	18.63	46.00	-27.37	AVG	Р

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# B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

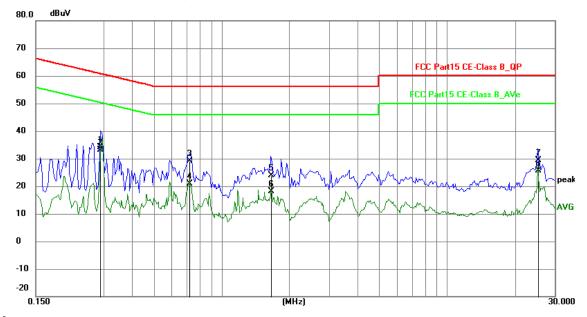
# **EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Charging and Communication by BT

**Results: Pass** 

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2904	24.31	9.76	34.07	60.51	-26.44	QP	Р
2	0.2904	23.44	9.76	33.20	50.51	-17.31	AVG	Р
3	0.7194	19.45	9.78	29.23	56.00	-26.77	QP	Р
4	0.7194	11.00	9.78	20.78	46.00	-25.22	AVG	Р
5	1.6593	14.11	9.80	23.91	56.00	-32.09	QP	Ъ
6	1.6593	8.21	9.80	18.01	46.00	-27.99	AVG	Л
7	25.2300	18.41	11.00	29.41	60.00	-30.59	QP	Р
8	25.2300	14.69	11.00	25.69	50.00	-24.31	AVG	Р

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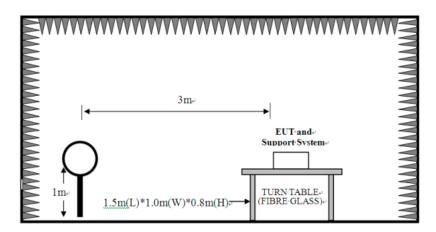


#### **6** Radiated Emission Test

- 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



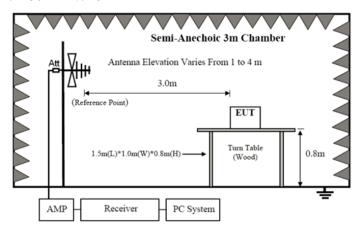
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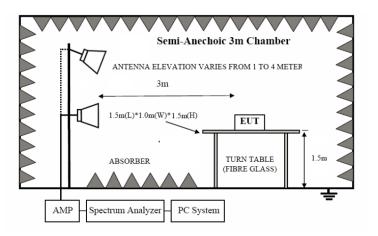
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For radiated emissions from 30MHz to1GHz



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	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
(MHz)	mV/m	dBuV/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)
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  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 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. Battery full charged during tests.

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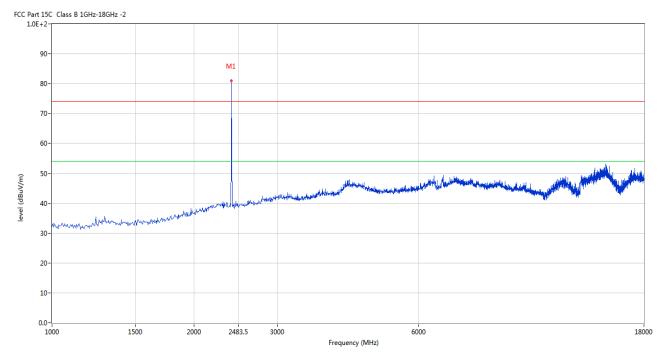


#### 6.5 Test result

# A Fundamental & Harmonics Radiated Emission Data

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

#### Horizontal



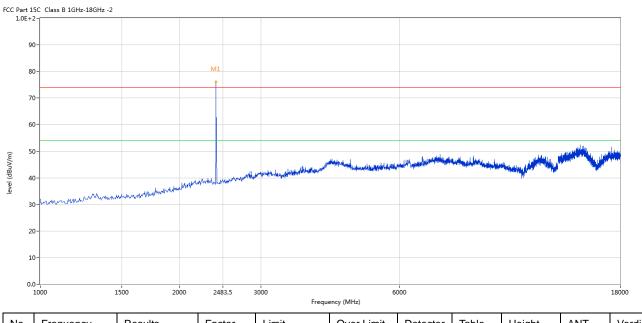
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2402	80.93	-3.57	114.0	-33.07	Peak	217.00	100	Horizontal	Pass

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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	2402	76.02	-3.57	114.0	-37.98	Peak	50.00	100	Vertical	Pass

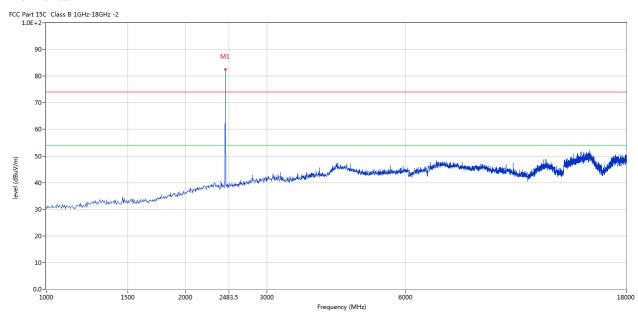
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Please refer to the following test plots for details: Middle Channel-2441MHz

#### **Horizontal**



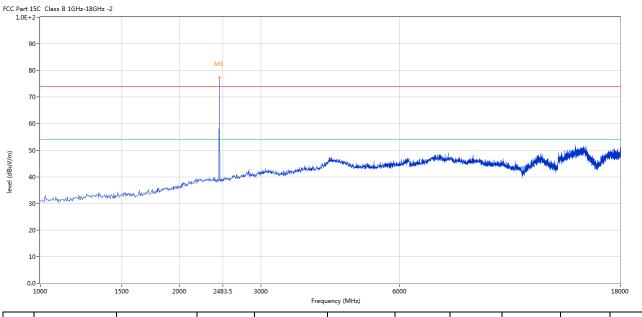
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2441	82.42	-3.57	114.0	-31.58	Peak	193.00	100	Horizontal	Pass

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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	77.37	-3.57	114.0	-36.63	Peak	162.00	100	Vertical	Pass

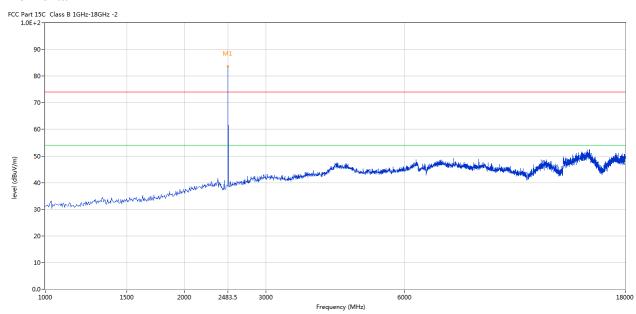
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Please refer to the following test plots for details: High Channel-2480MHz

#### Horizontal



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2480	83.62	-3.57	114.0	-30.38	Peak	27.00	100	Horizontal	Pass

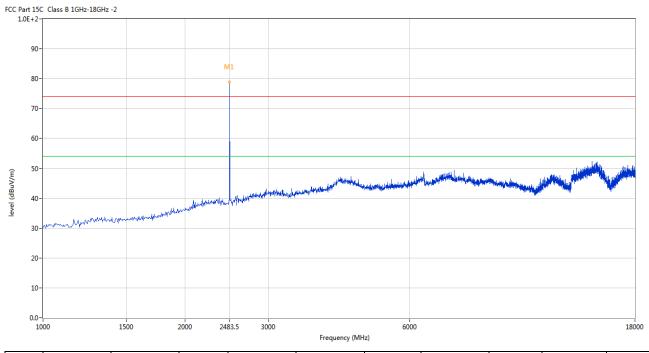
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#### Vertical



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	2480	78.95	-3.57	114.0	-35.05	Peak	65.00	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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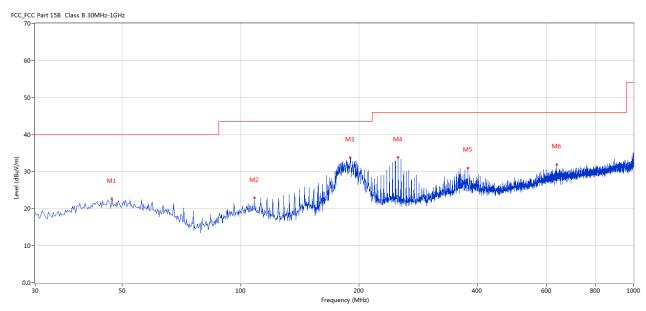


# B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

**Results:** Pass

Please refer to following diagram for individual



No.	Frequency	Results	Factor	Limit	Margin	Detector	Table	Height	Antenna	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(Degree)	(cm)		
1	46.971	22.61	-11.45	40.0	17.39	Peak	314.00	100	Horizontal	Pass
2	108.550	22.87	-13.46	43.5	20.63	Peak	359.00	100	Horizontal	Pass
3	190.252	33.77	-14.33	43.5	9.73	Peak	323.00	100	Horizontal	Pass
4	251.832	33.82	-12.05	46.0	12.18	Peak	323.00	100	Horizontal	Pass
5	378.870	31.04	-9.28	46.0	14.96	Peak	348.00	100	Horizontal	Pass
6	637.796	31.88	-4.72	46.0	14.12	Peak	300.00	100	Horizontal	Pass

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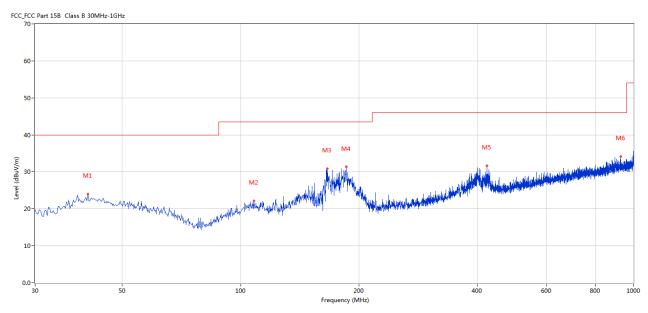


# Radiated Emission In Vertical (30MHz----1000MHz)

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	40.910	24.03	-12.11	40.0	15.97	Peak	266.00	100	Vertical	Pass
2	108.065	22.19	-13.42	43.5	21.31	Peak	53.00	100	Vertical	Pass
3	166.008	30.84	-16.10	43.5	12.66	Peak	226.00	100	Vertical	Pass
4	185.646	31.31	-14.84	43.5	12.19	Peak	284.00	100	Vertical	Pass
5	424.206	31.59	-8.16	46.0	14.41	Peak	321.00	100	Vertical	Pass
6	928.480	34.17	-1.70	46.0	11.83	Peak	339.00	100	Vertical	Pass

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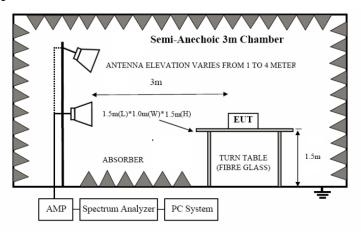


#### 7. Band Edge

#### 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.

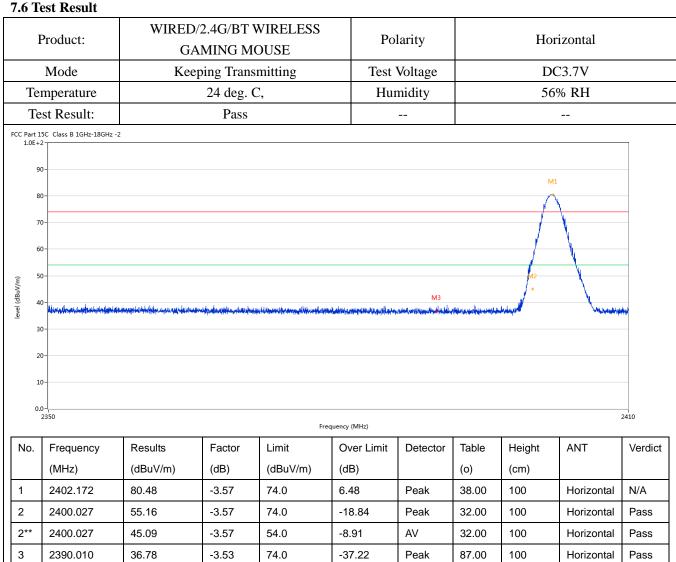
# 7.5 Band Edge Limit

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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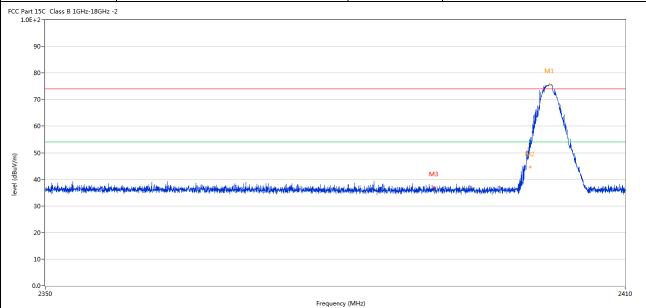




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Product:	WIRED/2.4G/BT WIRELESS GAMING MOUSE	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

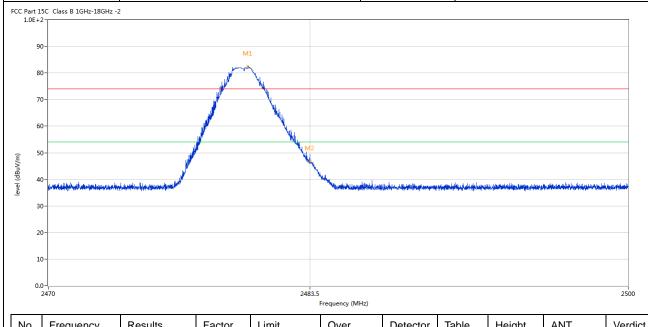


No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)		(o)	(cm)		
1	2402.082	75.73	-3.57	74.0	1.73	Peak	9.00	100	Vertical	N/A
2	2400.042	54.65	-3.57	74.0	-19.35	Peak	0.00	100	Vertical	Pass
2**	2400.042	44.54	-3.57	54.0	-9.46	AV	0.00	100	Vertical	Pass
3	2390.070	36.83	-3.53	74.0	-37.17	Peak	0.00	100	Vertical	Pass
	1 2 2**	(MHz) 1 2402.082 2 2400.042 2** 2400.042	(MHz) (dBuV/m)  1 2402.082 75.73  2 2400.042 54.65  2** 2400.042 44.54	(MHz) (dBuV/m) (dB)  1 2402.082 75.73 -3.57  2 2400.042 54.65 -3.57  2** 2400.042 44.54 -3.57	(MHz)     (dBuV/m)     (dB)     (dBuV/m)       1     2402.082     75.73     -3.57     74.0       2     2400.042     54.65     -3.57     74.0       2**     2400.042     44.54     -3.57     54.0	(MHz)     (dBuV/m)     (dB)     (dBuV/m)     (dB)       1     2402.082     75.73     -3.57     74.0     1.73       2     2400.042     54.65     -3.57     74.0     -19.35       2**     2400.042     44.54     -3.57     54.0     -9.46	(MHz)     (dBuV/m)     (dB)     (dBuV/m)     (dB)       1     2402.082     75.73     -3.57     74.0     1.73     Peak       2     2400.042     54.65     -3.57     74.0     -19.35     Peak       2**     2400.042     44.54     -3.57     54.0     -9.46     AV	(MHz)     (dBuV/m)     (dB)     (dBuV/m)     (dB)       1     2402.082     75.73     -3.57     74.0     1.73     Peak     9.00       2     2400.042     54.65     -3.57     74.0     -19.35     Peak     0.00       2**     2400.042     44.54     -3.57     54.0     -9.46     AV     0.00	(MHz)     (dBuV/m)     (dB)     (dBuV/m)     (dB)     (o)     (cm)       1     2402.082     75.73     -3.57     74.0     1.73     Peak     9.00     100       2     2400.042     54.65     -3.57     74.0     -19.35     Peak     0.00     100       2**     2400.042     44.54     -3.57     54.0     -9.46     AV     0.00     100	(MHz)     (dBuV/m)     (dB)     (dB)     (o)     (cm)       1     2402.082     75.73     -3.57     74.0     1.73     Peak     9.00     100     Vertical       2     2400.042     54.65     -3.57     74.0     -19.35     Peak     0.00     100     Vertical       2**     2400.042     44.54     -3.57     54.0     -9.46     AV     0.00     100     Vertical

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Product:	WIRED/2.4G/BT WIRELESS GAMING MOUSE	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
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	2480.287	82.42	-3.57	74.0	8.42	Peak	229.00	100	Horizontal	N/A
2	2483.500	46.84	-3.57	74.0	-27.16	Peak	229.00	100	Horizontal	Pass

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Product:		WIRED/2.4G/BT WIRELESS GAMING MOUSE			D	Detector		Vertical		
	Mode	11 8 11 8				t Voltage		DC	3.7V	
Te	mperature					Humidity	56% RH			
Т	est Result:	Pass								
CC Part :	15C Class B 1GHz-18GHz	-2			•		•			
Ġ	90-									
8	M1									
7	70-			1						
6	50-		J. Market	The second second						
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(m//mgp) lavi	10-	istracja njekologogickom porezijem pomobnik plik	/	M2	landri elempir o cristique de projet flestigadop	daylard daylar daylar bardan iyo galadg	g heeter dynlaman lyn, and a singl	nnguurka produkti kanandaa diskilikus	mit enter hill op hill word in der generaliset bes	***
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m/vudb) level	10- Jahrushiji praktisa kantilidaskoh 30-	iraga asibararidhasan isan aryabib	/	M2	المستعمل الم	والمراجع المراجع المراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والم	مريا و دو المراجع المر	na <sub>ruda</sub> y-duşadıranda Heldin	ر المرافقة الإيمانية المرافقة الإيمانية المرافقة الإيمانية المرافقة الإيمانية المرافقة الإيمانية المرافقة الإ	909, billy 4-184
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m/\mathbb{M} (dBu/\mathbb{M})	10- Jahrushiji praktisa kantilidaskoh 30-	serap a markara salah	/	2483.5	requency (MHz)	de participa de la companya de la c	title i de la constant	nagundiga dhe anta anta anta dhi dhi	nd assertion of Acquaintively of	2500
m/\mathbb{M} (dBu/\mathbb{M})	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Results	Factor	2483.5		Detector	Table	Height	ANT	
ω//ngp) level	10 - 20 - 2470		Factor (dB)	2483.5 Fr	requency (MHz)					2500
ш/(ngp)   ava  2 2 1 1 0	10	Results		2483.5 Fr	requency (MHz)  Over Limit		Table	Height		2500

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 with gain-2.39dBi maximum. It fulfills the requirement of this section.

Test Result: Pass

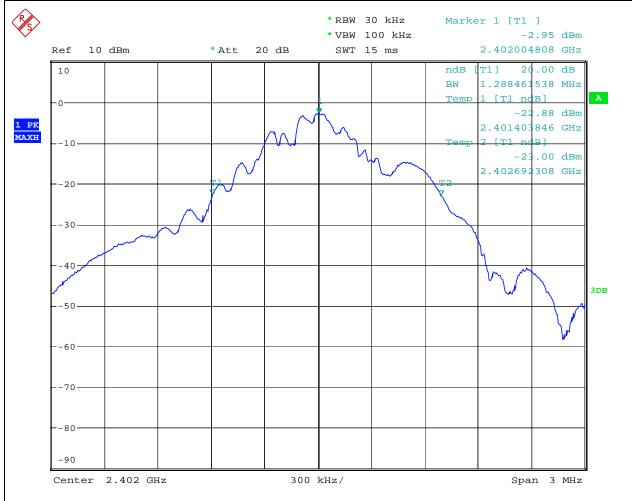
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9.0 20dB Bandwidth Measurement						
Product:	WIRED/2.4G/BT WIRELESS GAMING MOUSE	Test Mode:	Keep transmitting			
Mode	Keeping Transmitting	Test Voltage	DC3.7V			
Temperature	24 deg. C,	Humidity	56% RH			
Test Result:	Pass	Detector	PK			
20dB Bandwidth	1.288MHz					



Date: 19.SEP.2024 15:57:53

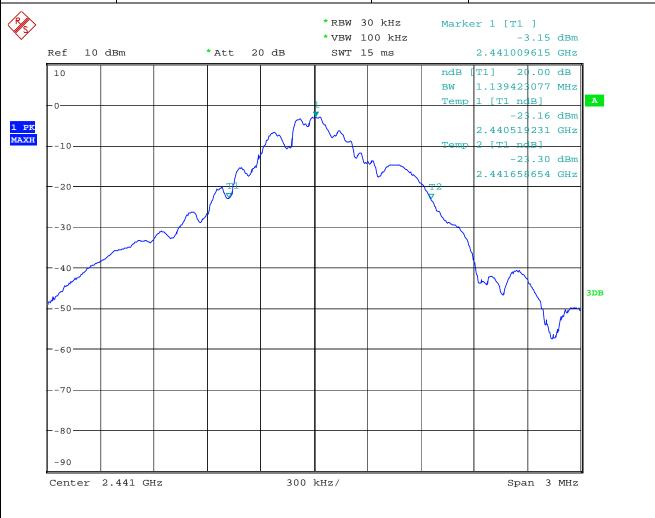
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Product:	WIRED/2.4G/BT WIRELESS GAMING MOUSE	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.139MHz		



Date: 19.SEP.2024 15:57:04

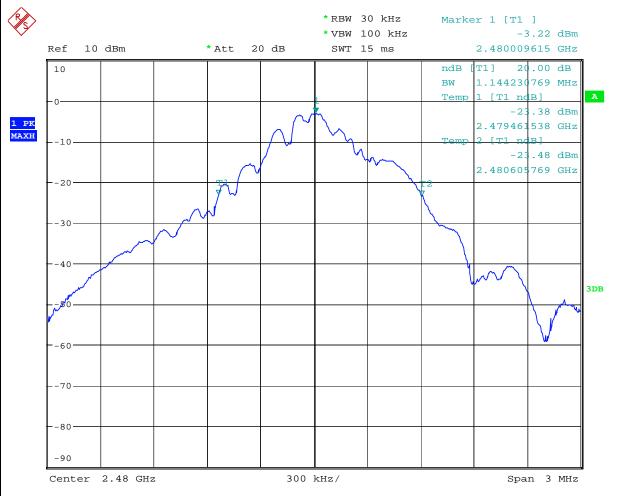
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Product:	WIRED/2.4G/BT WIRELESS GAMING MOUSE	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1.144MHz		



Date: 19.SEP.2024 15:54:51

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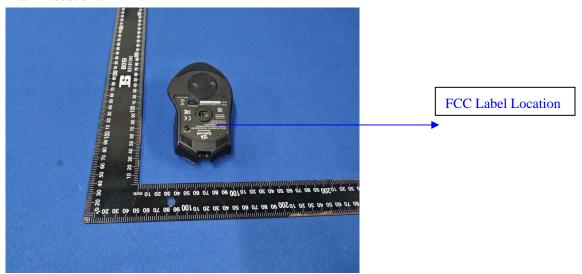


#### 10.0 FCC ID Label

#### FCC ID: TUVDS-2851G

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:**



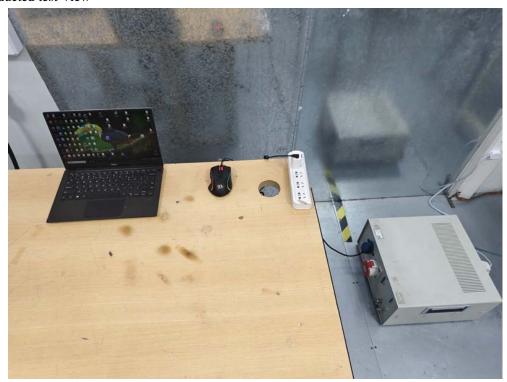
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#### 11.0 Photo of testing

#### 11.1 Conducted test View--

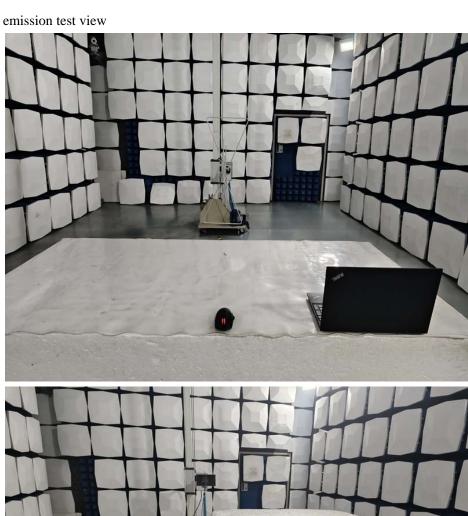


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## Radiated emission test view





Photographs - EUT

Please refer test report TW2409114-01E

# -- End of the report--

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

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