

TEST REPORT



Report No.: TW2302123E  
Applicant: Eastern Times Technology Co.,Ltd  
Product: WIRED AND WIRELESS GAMING MOUSE  
Model No.: M690-PRO, DS-2945, M690W-PRO  
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

A handwritten signature in black ink that reads 'Terry Tang'.

Terry Tang

Manager

Dated: March 07, 2023

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

**SHENZHEN TIMEWAY TESTING LABORATORIES**

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,  
Tong Le Village, Nanshan District, Shenzhen, China**  
Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 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

#### **CAB identifier: CN0033**

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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 States  
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.  
Telephone: --  
Fax: --

### 1.3 Description of EUT

Product: WIRED AND 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  
Model Number: M690-PRO  
Additional Model Name: DS-2945, M690W-PRO  
Rating: DC5V, 260mA or DC3.7V, 120mA  
Battery: DC3.7V, 700mAh Li-ion battery  
Modulation Type: GFSK  
Operation Frequency: 2404-2480MHz  
Channel Number: 16  
Channel List (Unit: MHz): 2404, 2426, 2441, 2463, 2407, 2422, 2445, 2466, 2414, 2436, 2459, 2473, 2419, 2439, 2453, 2480  
Hardware Version: 2945-C1 TX V1  
Software Version: 4666  
Serial No.: RDM690-PRO22102000512  
Antenna Designation: PCB antenna with gain 1.2dBi maximum (Get from the antenna Specification)

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1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2023-02-15 to 2023-03-07

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Conducted Emissions Uncertainty =3.6dB

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

1.7 Test Engineer

*Andy Xing*

The sample tested by \_\_\_\_\_

Print Name: 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	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17
LISN	R&S	EZH3-Z5	100253	2022-07-18	2023-07-17
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2022-07-18	2023-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2022-07-15	2023-07-14
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	2024-07-17
Power meter	Anritsu	ML2487A	6K00003613	2022-07-18	2023-07-17
Power sensor	Anritsu	MA2491A	32263	2022-07-18	2023-07-17
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	2022-07-15	2023-07-14
EMI Test Receiver	RS	ESCS 30	834115/006	2022-07-15	2023-07-14
Spectrum	HP/Agilent	E4407B	MY50441392	2022-07-15	2023-07-14
Spectrum	RS	FSP	1164.4391.38	2022-07-15	2023-07-14
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2022-07-15	2023-07-14
RF Cable	Zhengdi	7m	--	2022-07-15	2023-07-14
Pre-Amplifier	Schwarebeck	BBV9743	#218	2022-07-15	2023-07-14
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2022-07-15	2023-07-14
LISN	SCHAFFNER	NNB42	00012	2022-08-18	2023-07-17
ESPI Test Receiver	R&S	ESPI 3	100379	2022-07-15	2023-07-14
LISN	R&S	EZH3-Z5	100294	2022-07-18	2023-07-17

## 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

<b>The EUT has been tested according to the following specifications:</b>			
<b>Standard</b>	<b>Test Type</b>	<b>Result</b>	<b>Notes</b>
<b>FCC Part 15, Paragraph 15.203</b>	<b>Antenna Requirement</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.207</b>	<b>Conducted Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(a) &amp; 15.249(b) Limit</b>	<b>Field Strength of Fundamental</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15, Paragraph 15.209</b>	<b>Radiated Emission Test</b>	<b>Pass</b>	<b>Complies</b>
<b>FCC Part 15 Subpart C Paragraph 15.249(d) Limit</b>	<b>Band Edge Test</b>	<b>Pass</b>	<b>Complies</b>

#### 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



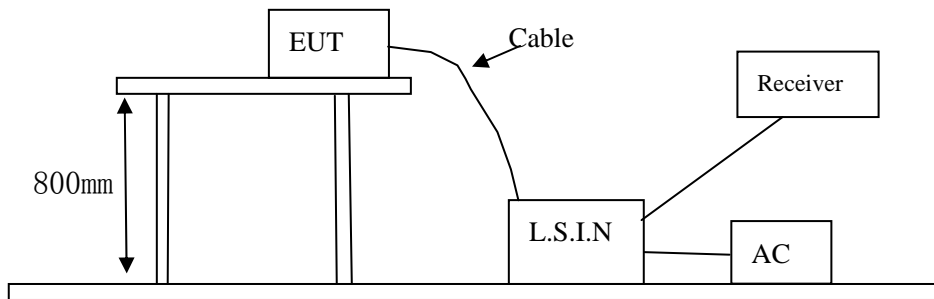
EUT: Equipment Under Test

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.

16 channels are provided to the EUT

A. EUT

Device	Manufacturer	Model	FCC ID
WIRED AND WIRELESS GAMING MOUSE	Eastern Times Technology Co.,Ltd	M690-PRO, DS-2945, M690W-PRO	TUVDS-2945C

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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 (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 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



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

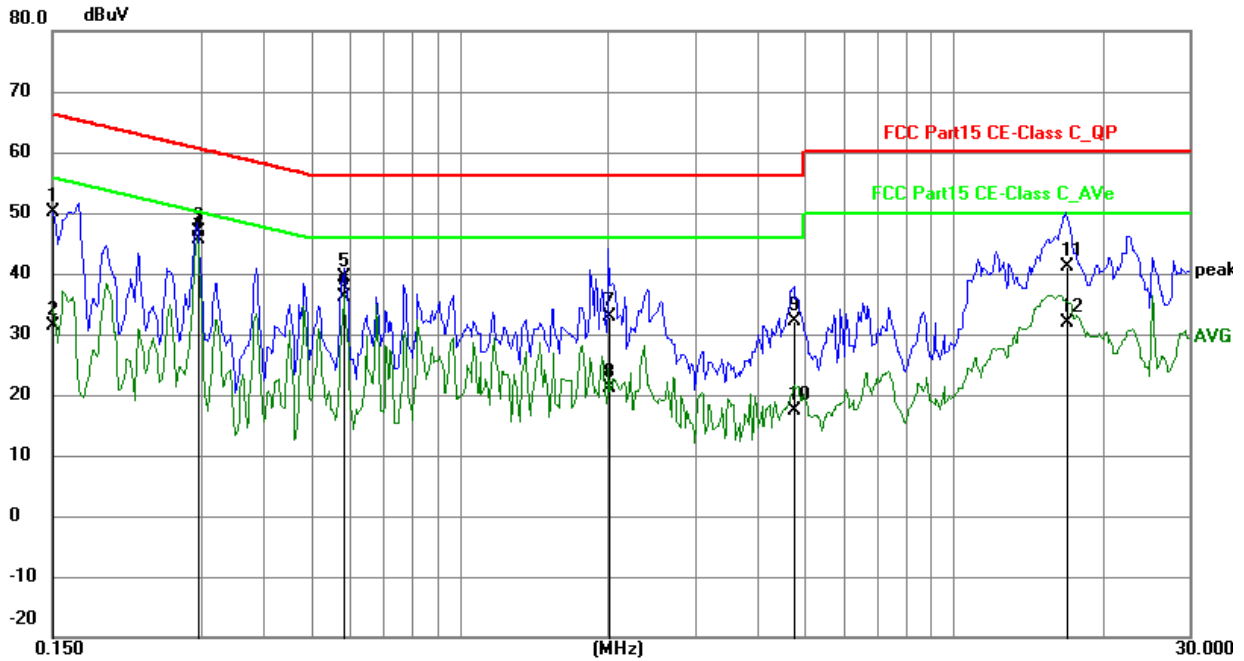
**EUT Operating Environment**

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging and Keep Transmitting**

**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	0.1500	40.39	9.79	50.18	66.00	-15.82	QP	P
2	0.1500	21.61	9.79	31.40	56.00	-24.60	AVG	P
3	0.2943	37.12	9.76	46.88	60.40	-13.52	QP	P
4	0.2943	35.85	9.76	45.61	50.40	-4.79	AVG	P
5	0.5829	29.49	9.77	39.26	56.00	-16.74	QP	P
6	0.5829	26.27	9.77	36.04	46.00	-9.96	AVG	P
7	2.0102	22.97	9.80	32.77	56.00	-23.23	QP	P
8	2.0102	11.27	9.80	21.07	46.00	-24.93	AVG	P
9	4.7511	22.26	9.92	32.18	56.00	-23.82	QP	P
10	4.7511	7.57	9.92	17.49	46.00	-28.51	AVG	P
11	16.8450	30.71	10.49	41.20	60.00	-18.80	QP	P
12	16.8450	21.48	10.49	31.97	50.00	-18.03	AVG	P

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

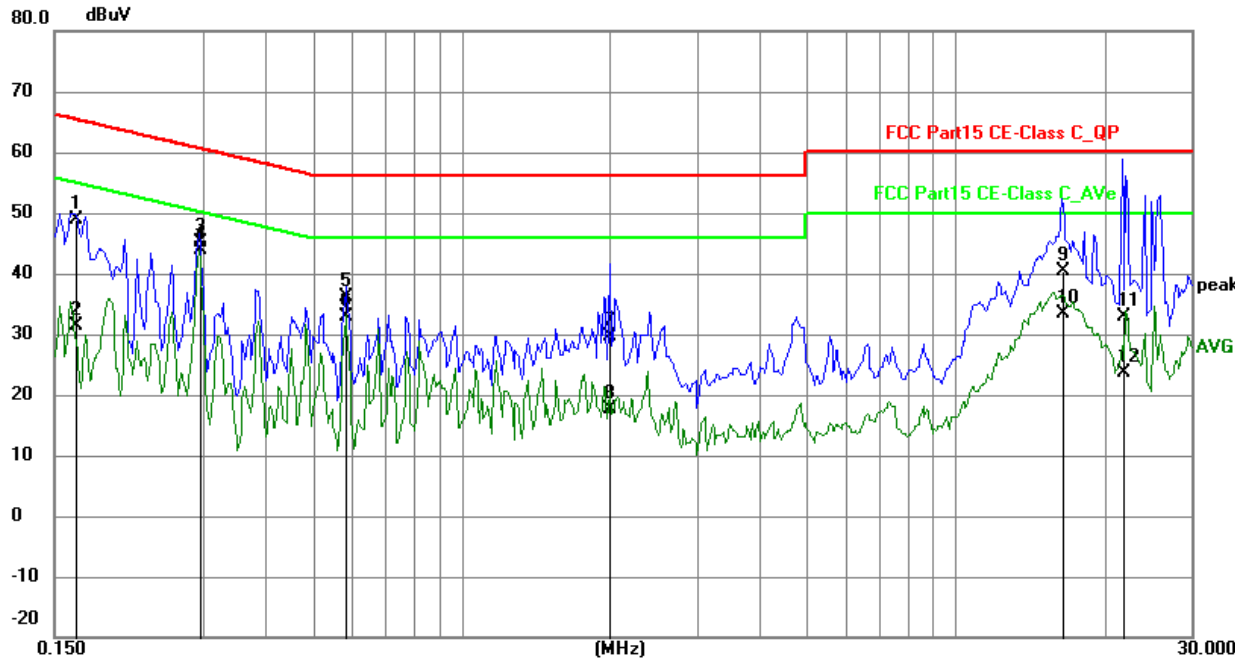
**EUT Operating Environment**

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: Charging and Keep Transmitting**

**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	0.1655	39.10	9.77	48.87	65.18	-16.31	QP	P
2	0.1655	21.69	9.77	31.46	55.18	-23.72	AVG	P
3	0.2943	35.34	9.76	45.10	60.40	-15.30	QP	P
4	0.2943	34.08	9.76	43.84	50.40	-6.56	AVG	P
5	0.5829	26.29	9.77	36.06	56.00	-19.94	QP	P
6	0.5829	23.00	9.77	32.77	46.00	-13.23	AVG	P
7	1.9986	19.76	9.80	29.56	56.00	-26.44	QP	P
8	1.9986	7.89	9.80	17.69	46.00	-28.31	AVG	P
9	16.4355	29.80	10.47	40.27	60.00	-19.73	QP	P
10	16.4355	22.85	10.47	33.32	50.00	-16.68	AVG	P
11	21.7356	21.99	10.79	32.78	60.00	-27.22	QP	P
12	21.7356	12.89	10.79	23.68	50.00	-26.32	AVG	P

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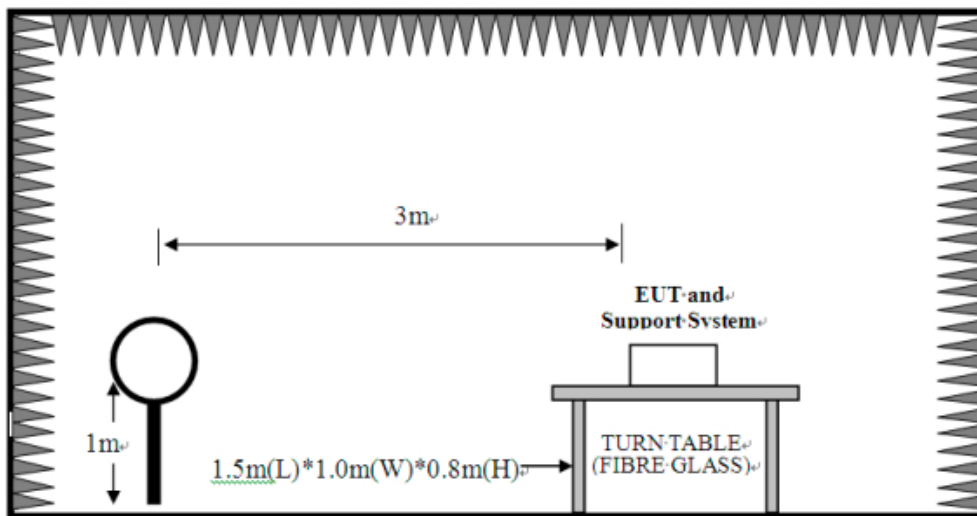
## 6 Radiated Emission Test

### 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

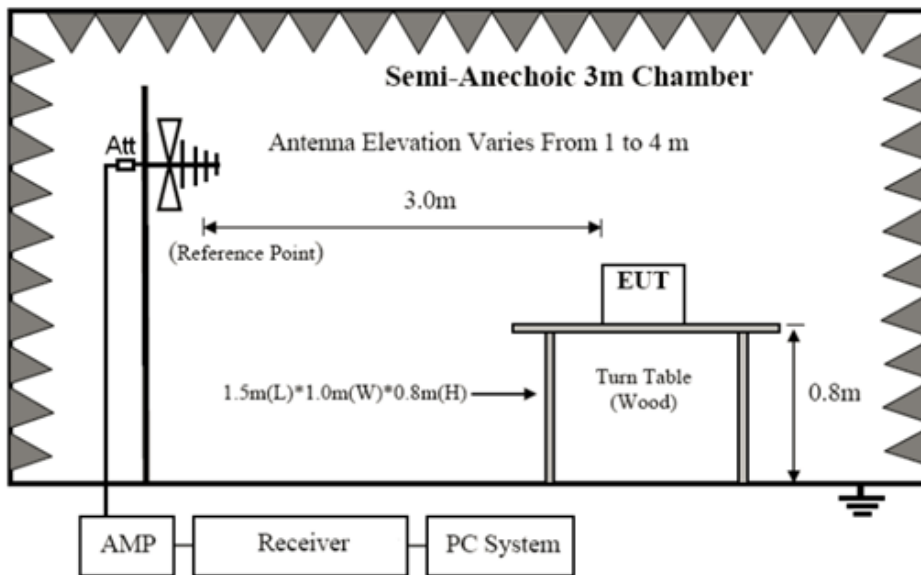


For radiated emissions from 30MHz to 1GHz

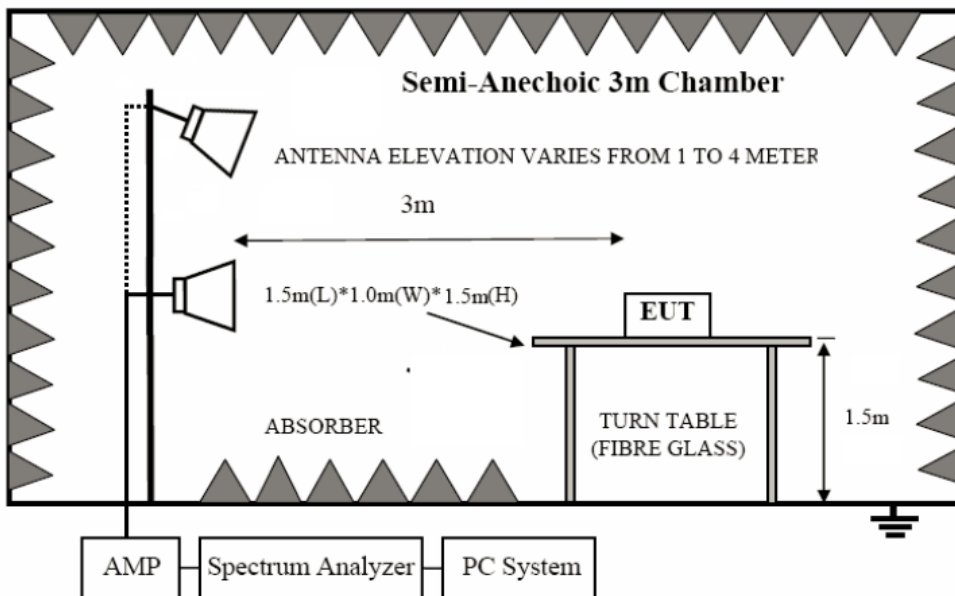
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For radiated emissions above 1GHz



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**

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)		Field Strength of Harmonics (3m)		
	mV/m	dBuV/m	uV/m	dBuV/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 μ 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
30-80	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. 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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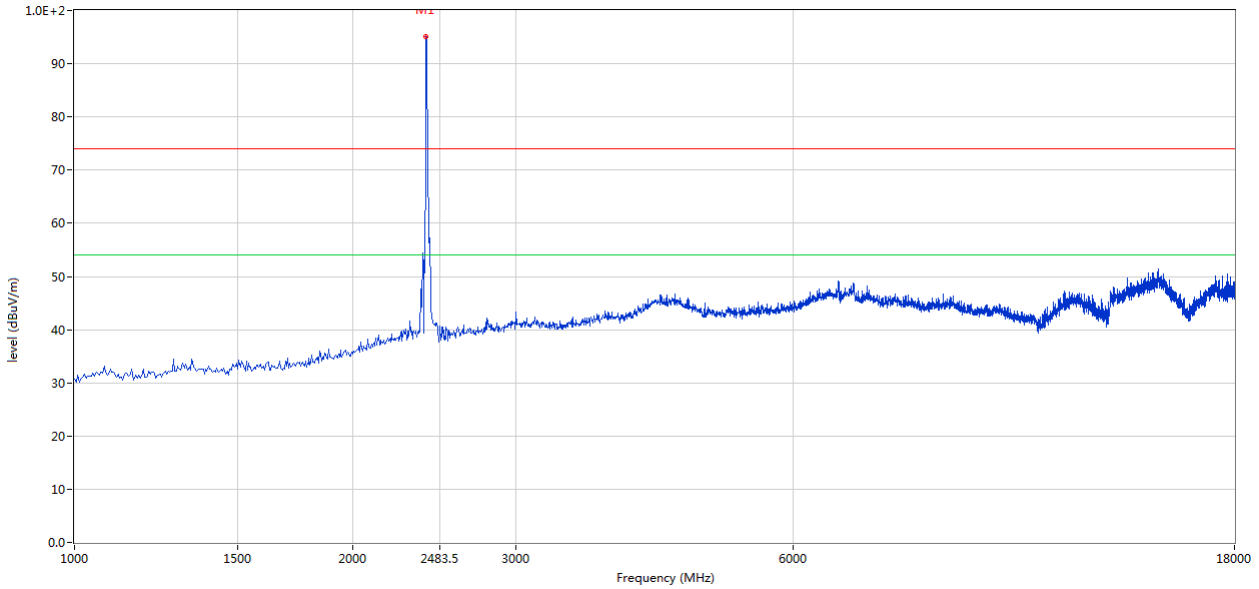
**6.5 Test result**

**A Fundamental & Harmonics Radiated Emission Data**

Please refer to the following test plots for details: Low Channel-2404MHz

**Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2404	95.09	-3.57	114.0	-18.91	Peak	226.00	100	Horizontal	Pass
1*	2404	86.31	-3.57	94.0	-7.69	AV	226.00	100	Horizontal	Pass

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

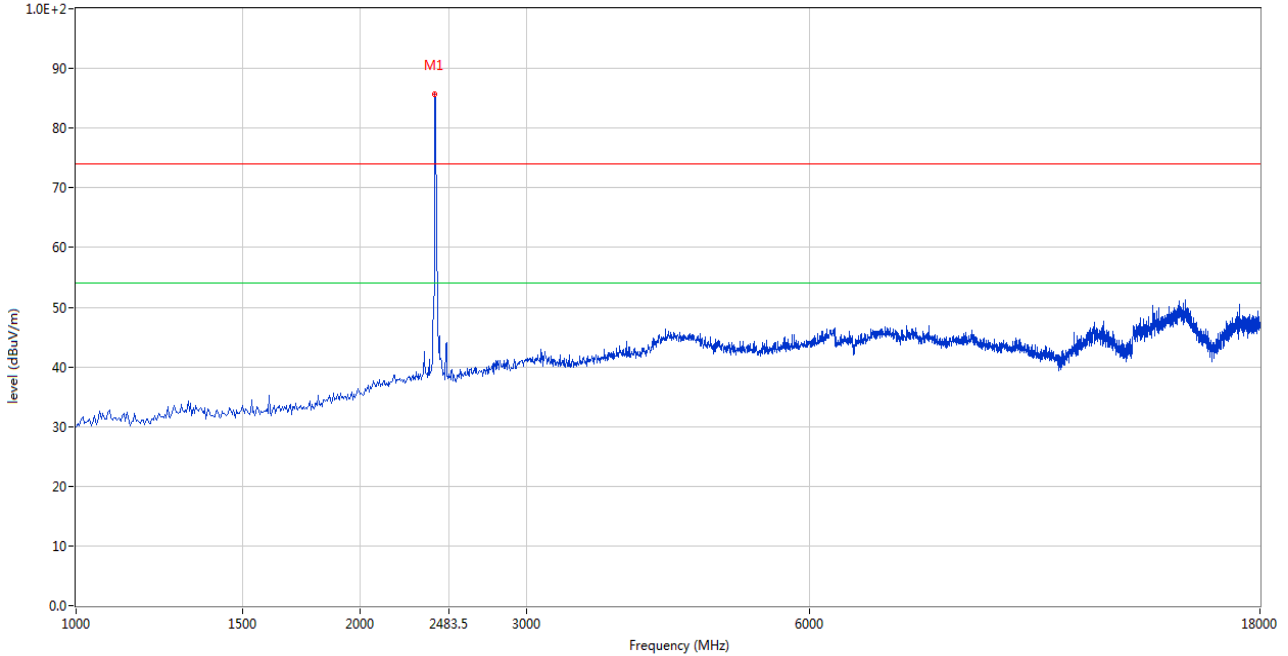
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**Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2404	85.60	-3.57	114.0	-28.40	Peak	6.00	100	Vertical	Pass

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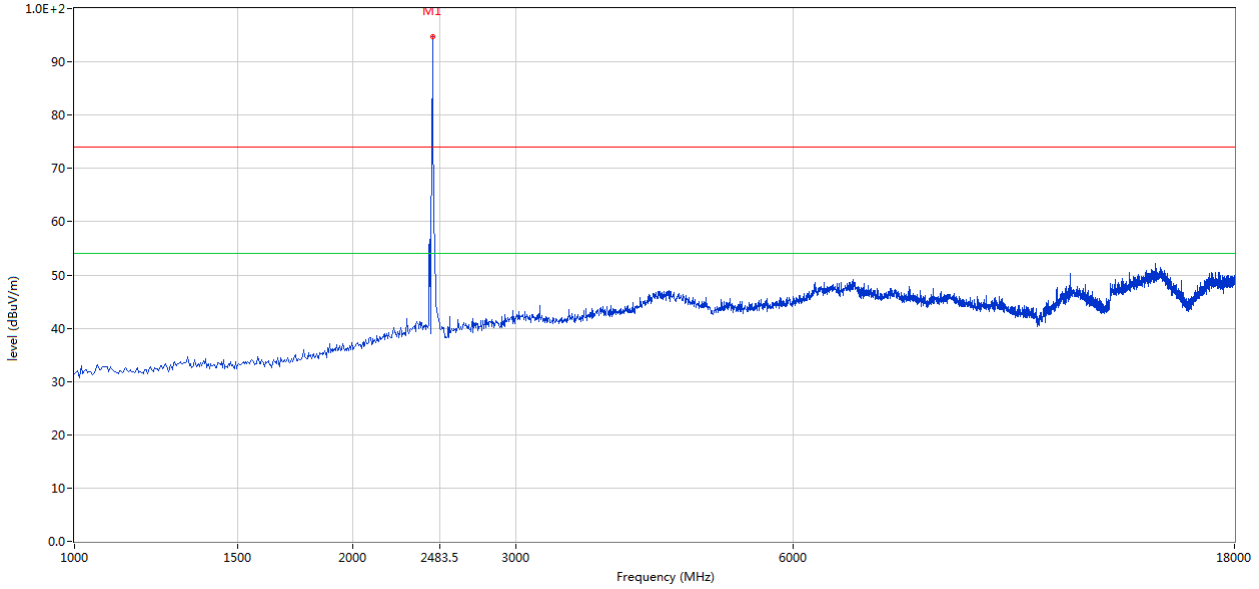




Please refer to the following test plots for details: Middle Channel-2441MHz

**Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	94.70	-3.57	114.0	-19.30	Peak	213.00	100	Horizontal	Pass
1*	2441	85.63	-3.57	94.0	-8.37	AV	213.00	100	Horizontal	Pass

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

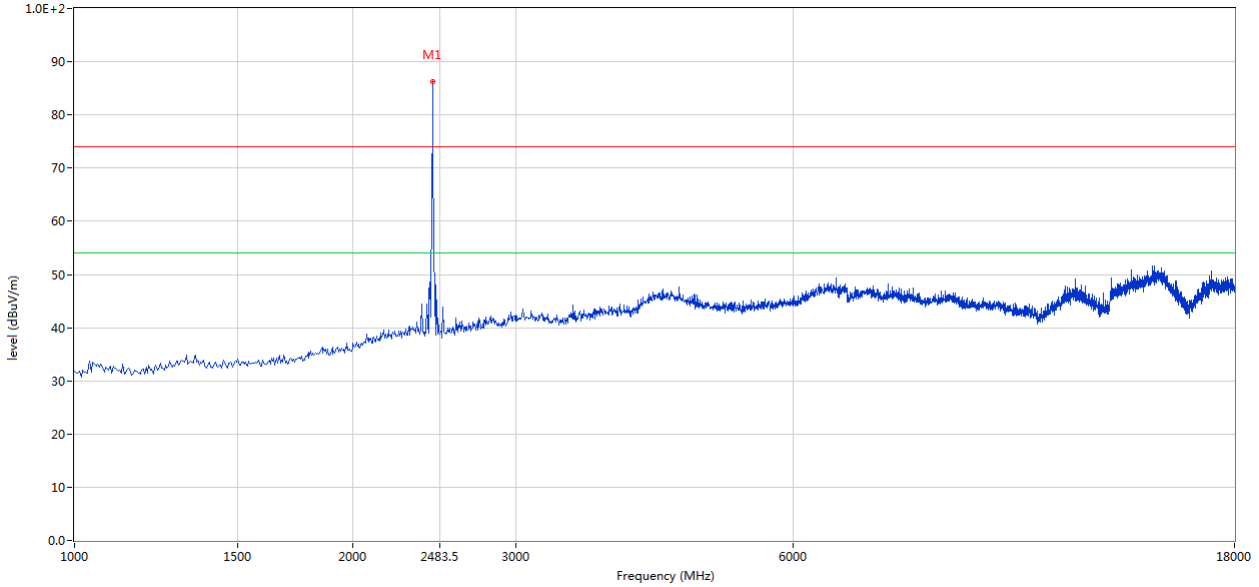
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**Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	86.29	-3.57	114.0	-27.71	Peak	360.00	100	Vertical	Pass

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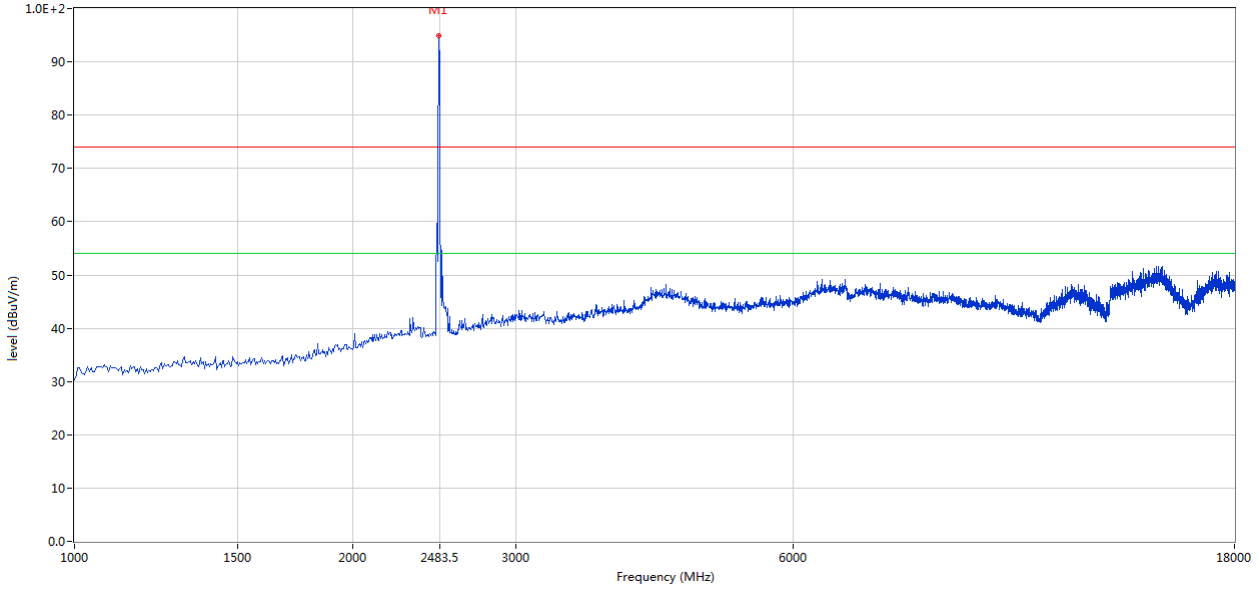
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Please refer to the following test plots for details: High Channel-2480MHz

**Horizontal**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	95.06	-3.57	114.0	-18.94	Peak	224.00	100	Horizontal	Pass
1*	2480	84.95	-3.57	94.0	-9.05	AV	224.00	100	Horizontal	Pass

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

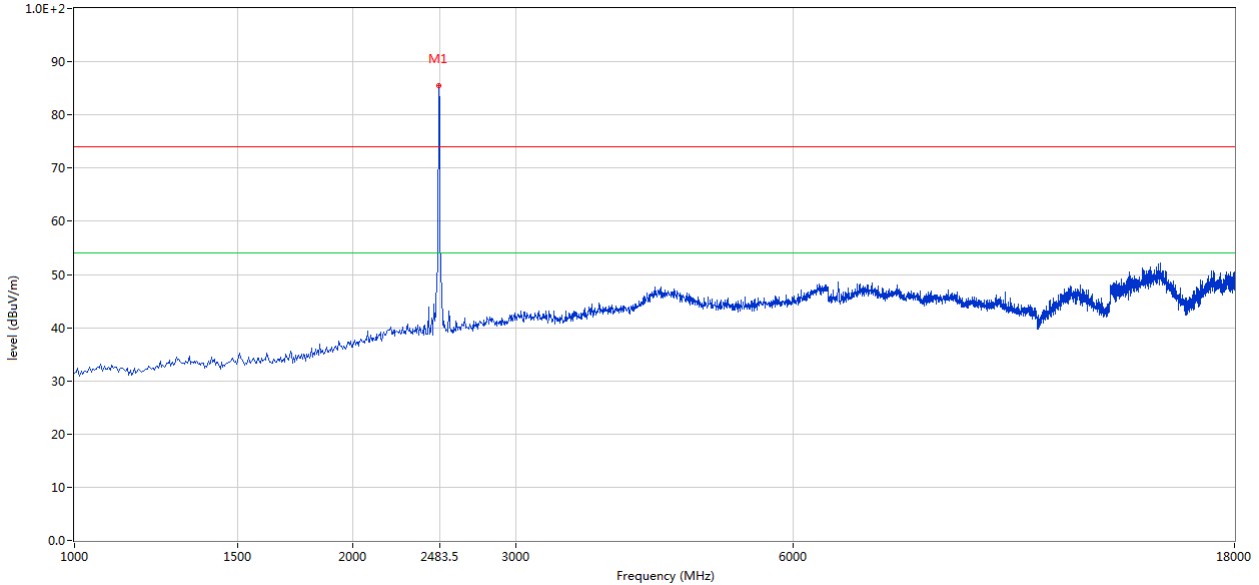
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**Vertical**

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	85.87	-3.57	114.0	-28.13	Peak	1.00	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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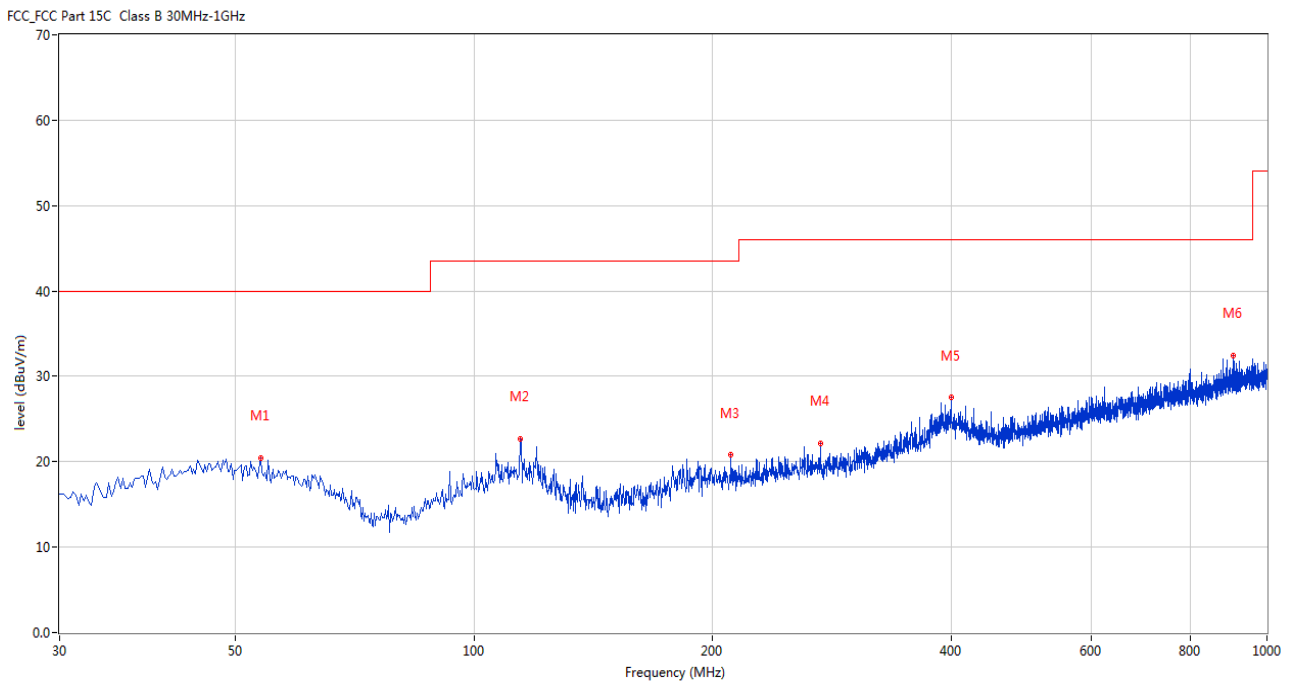


**B. General Radiated Emission Data**  
**Radiated Emission In Horizontal (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	53.759	20.47	-11.53	40.0	-19.53	Peak	47.00	100	Horizontal	Pass
2	114.369	22.63	-14.32	43.5	-20.87	Peak	101.00	200	Horizontal	Pass
3	210.860	20.77	-13.64	43.5	-22.73	Peak	141.00	100	Horizontal	Pass
4	273.167	22.18	-11.65	46.0	-23.82	Peak	67.00	200	Horizontal	Pass
5	399.478	27.49	-8.58	46.0	-18.51	Peak	198.00	100	Horizontal	Pass
6	905.449	32.40	-1.80	46.0	-13.60	Peak	215.00	100	Horizontal	Pass

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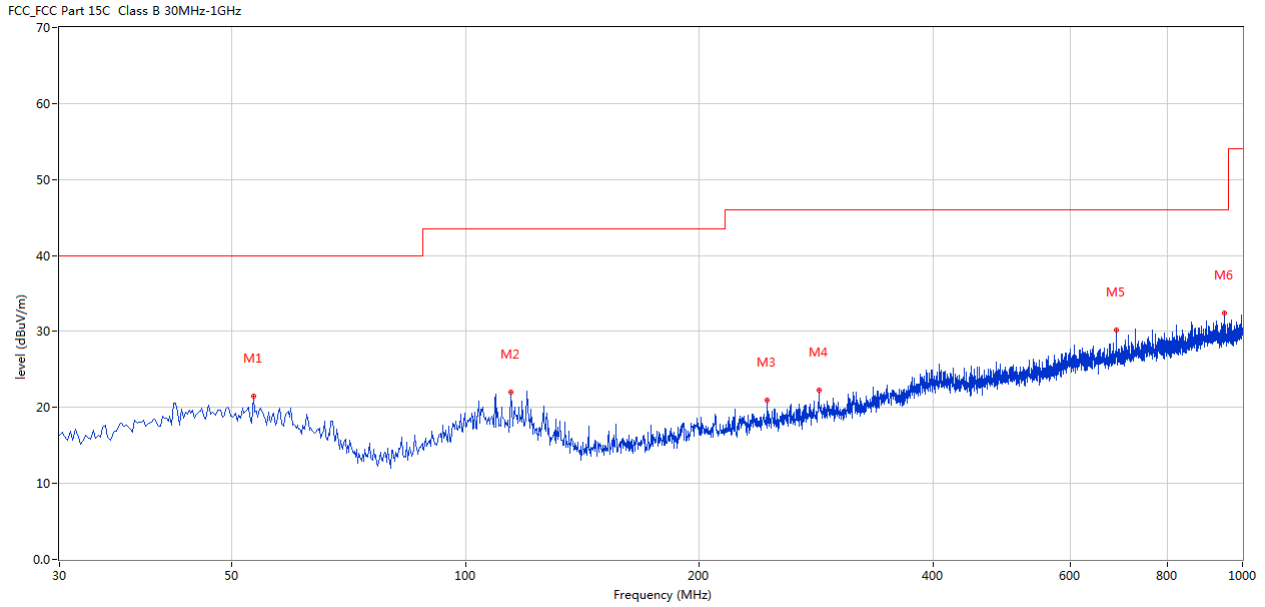


**Radiated Emission In Vertical (30MHz----1000MHz)**

EUT set Condition: Keep Tx transmitting

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	53.274	21.53	-11.51	40.0	-18.47	Peak	230.00	200	Vertical	Pass
2	114.369	22.07	-14.32	43.5	-21.43	Peak	315.00	100	Vertical	Pass
3	244.559	20.96	-12.24	46.0	-25.04	Peak	59.00	100	Vertical	Pass
4	285.289	22.30	-11.32	46.0	-23.70	Peak	360.00	100	Vertical	Pass
5	687.738	30.20	-4.28	46.0	-15.80	Peak	277.00	100	Vertical	Pass
6	948.603	32.40	-1.51	46.0	-13.60	Peak	261.00	200	Vertical	Pass

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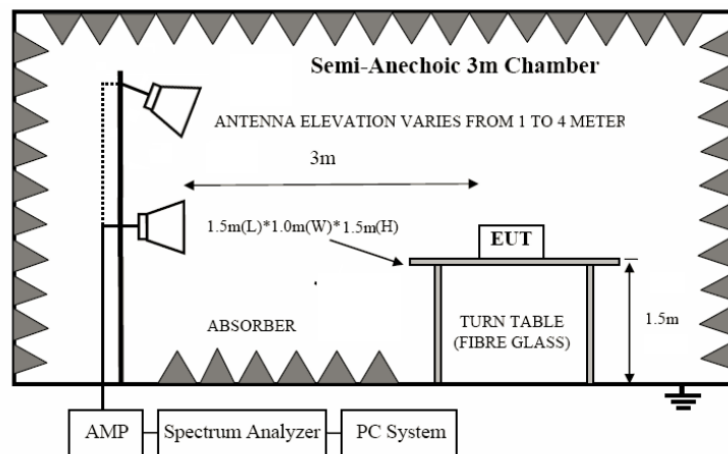


## 7. Band Edge

### 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.

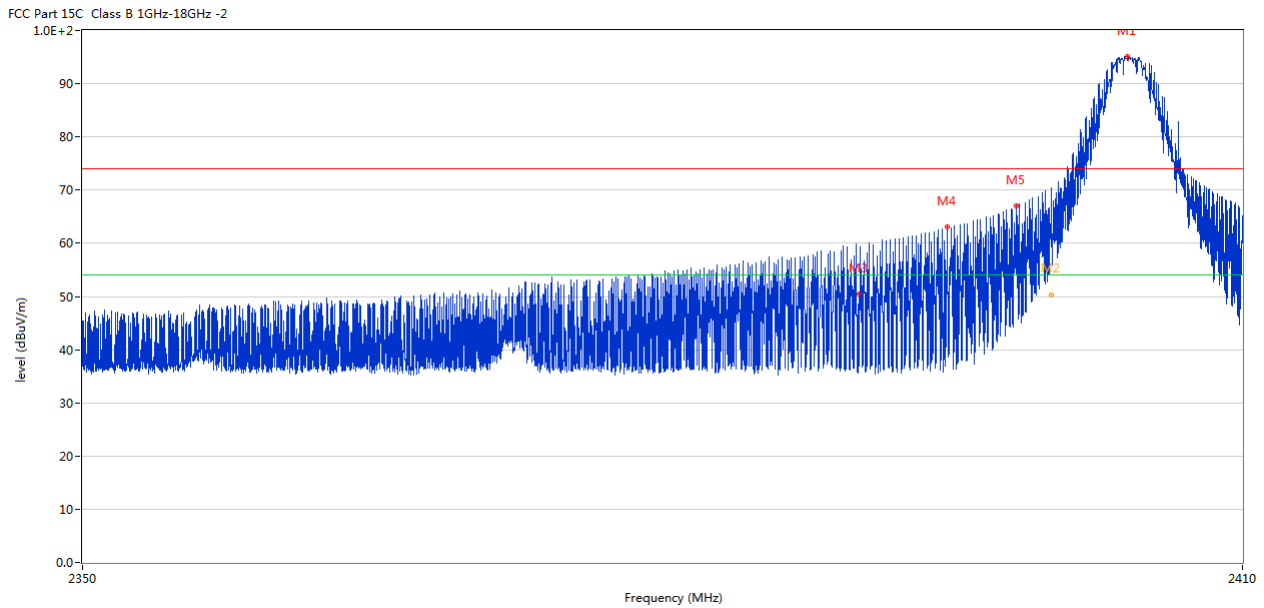
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**7.6 Test Result**

Product:	WIRED AND WIRELESS GAMING MOUSE	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--



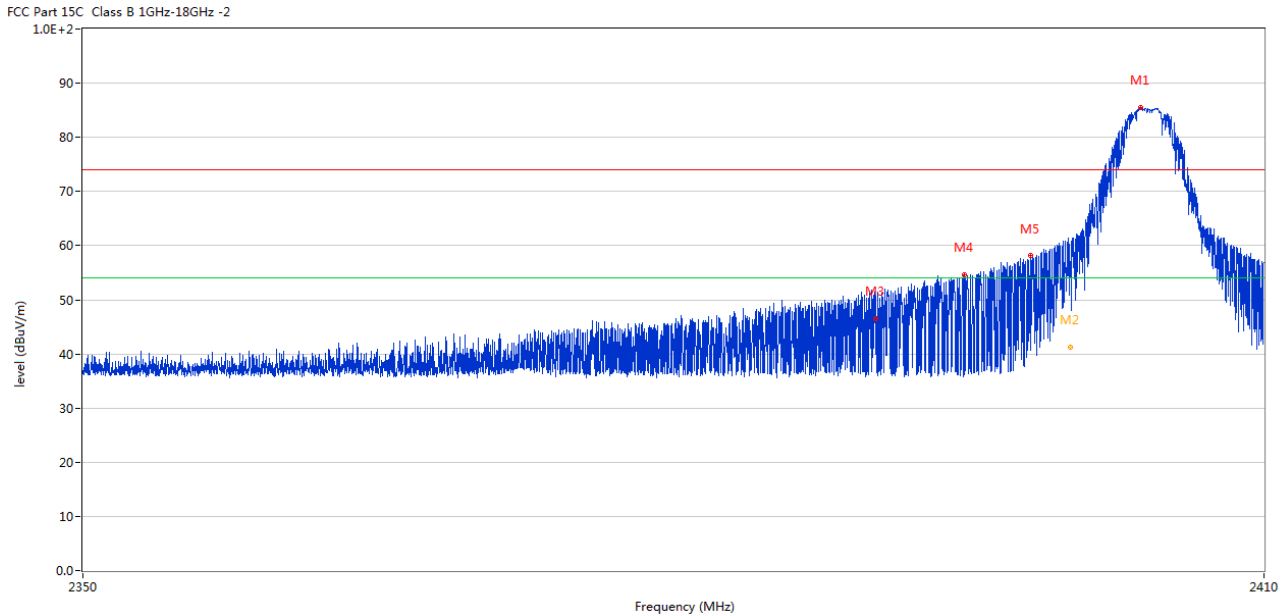
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403.972	95.05	-3.57	74.0	21.05	Peak	219.00	100	Horizontal	N/A
2	2399.998	70.36	-3.57	74.0	-3.64	Peak	211.00	100	Horizontal	Pass
2**	2399.998	50.34	-3.57	54.0	-3.66	AV	211.00	100	Horizontal	Pass
3	2390.010	50.46	-3.53	74.0	-23.54	Peak	2.00	100	Horizontal	Pass
4	2394.569	63.06	-3.55	74.0	-10.94	Peak	232.00	100	Horizontal	Pass
4*	2394.569	43.29	-3.55	54.0	-10.71	AV	232.00	100	Horizontal	Pass
5	2398.168	66.98	-3.56	74.0	-7.02	Peak	219.00	100	Horizontal	Pass
5*	2398.168	47.23	-3.56	54.0	-6.77	AV	219.00	100	Horizontal	Pass

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2403.642	85.49	-3.57	74.0	11.49	Peak	10.00	100	Vertical	N/A
2	2400.057	61.21	-3.57	74.0	-12.79	Peak	141.00	100	Vertical	Pass
2**	2400.057	41.20	-3.57	54.0	-12.80	AV	141.00	100	Vertical	Pass
3	2390.100	46.46	-3.53	74.0	-27.54	Peak	130.00	100	Vertical	Pass
4	2394.644	54.67	-3.55	74.0	-19.33	Peak	10.00	100	Vertical	Pass
4*	2394.644	35.89	-3.55	54.0	-18.11	AV	10.00	100	Vertical	Pass
5	2398.018	58.11	-3.56	74.0	-15.89	Peak	10.00	100	Vertical	Pass
5*	2398.018	38.43	-3.56	54.0	-15.57	AV	10.00	100	Vertical	Pass

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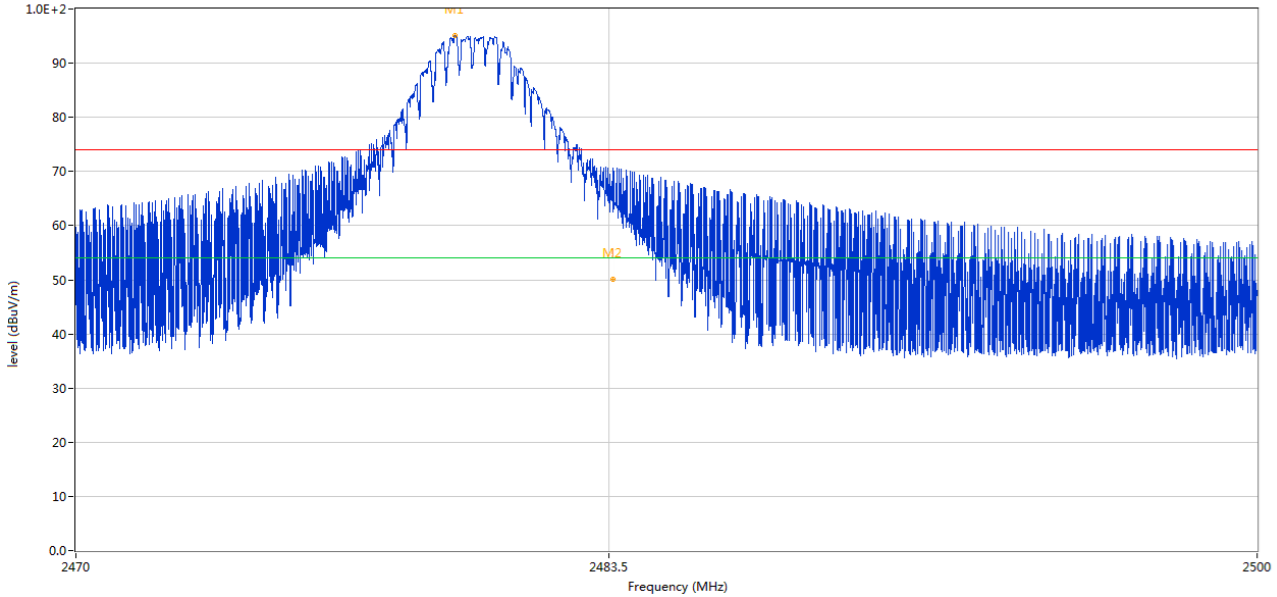
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Product:	WIRED AND WIRELESS GAMING MOUSE	Polarity	Horizontal
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.590	95.03	-3.57	74.0	21.03	Peak	208.00	100	Horizontal	N/A
2	2483.623	71.32	-3.57	74.0	-2.68	Peak	170.57	100	Horizontal	Pass
2**	2483.623	50.31	-3.57	54.0	-3.69	AV	170.57	100	Horizontal	Pass

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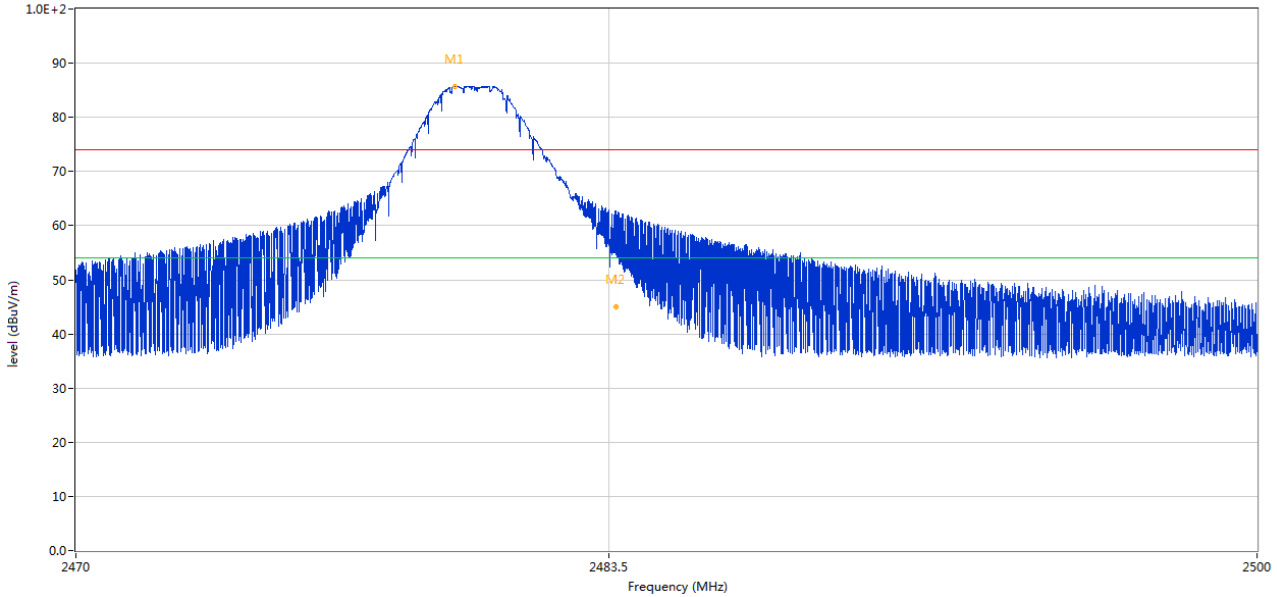
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Product:	WIRED AND WIRELESS GAMING MOUSE	Detector	Vertical
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	--	--

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.598	85.78	-3.57	74.0	11.78	Peak	0.00	100	Vertical	N/A
2	2483.761	63.57	-3.57	74.0	-10.43	Peak	0.00	100	Vertical	Pass
2**	2483.761	45.96	-3.57	54.0	-8.04	AV	0.00	100	Vertical	Pass

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## 8.0 Antenna Requirement

### Applicable Standard

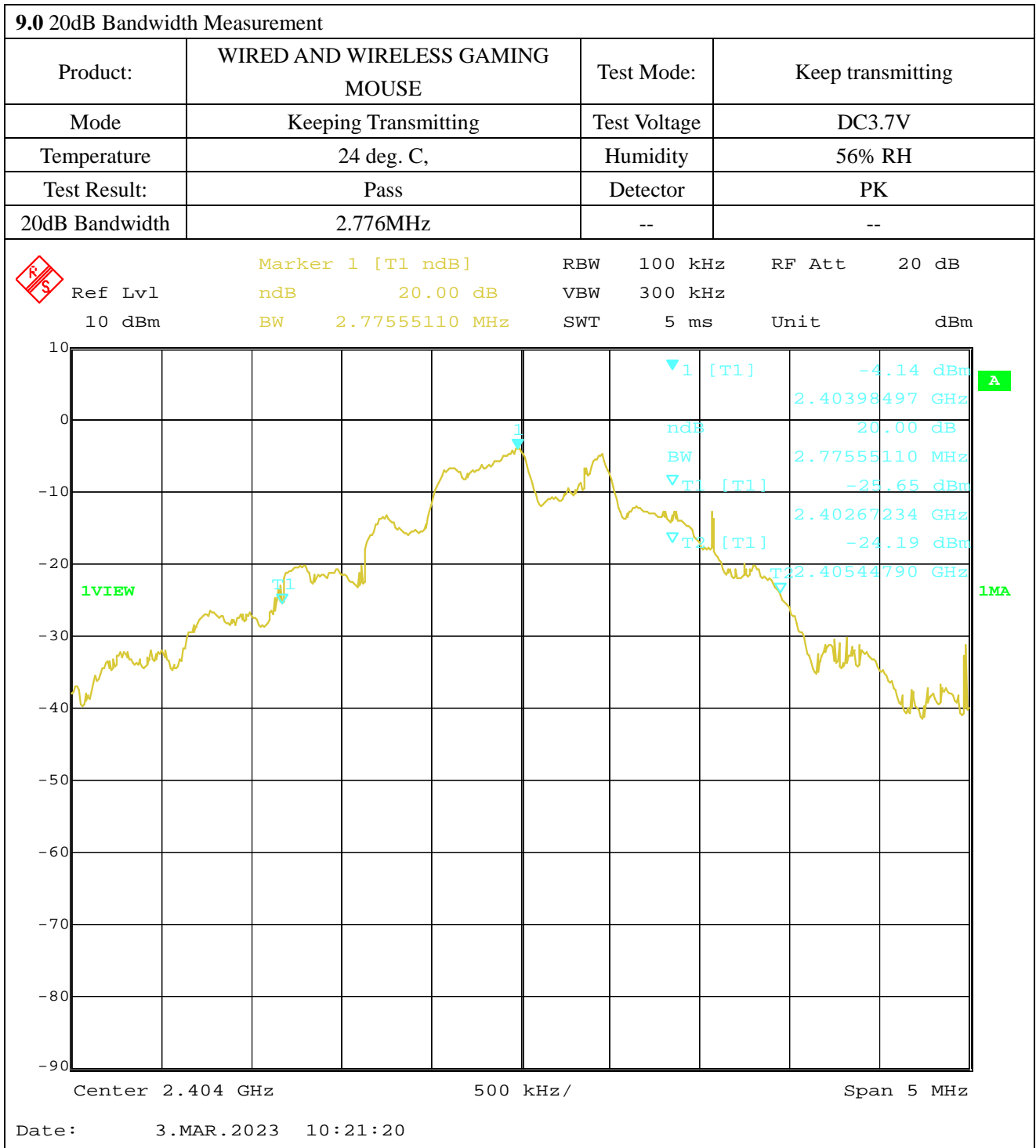
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply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

This product has a PCB antenna. The antenna gain is 1.2dBi 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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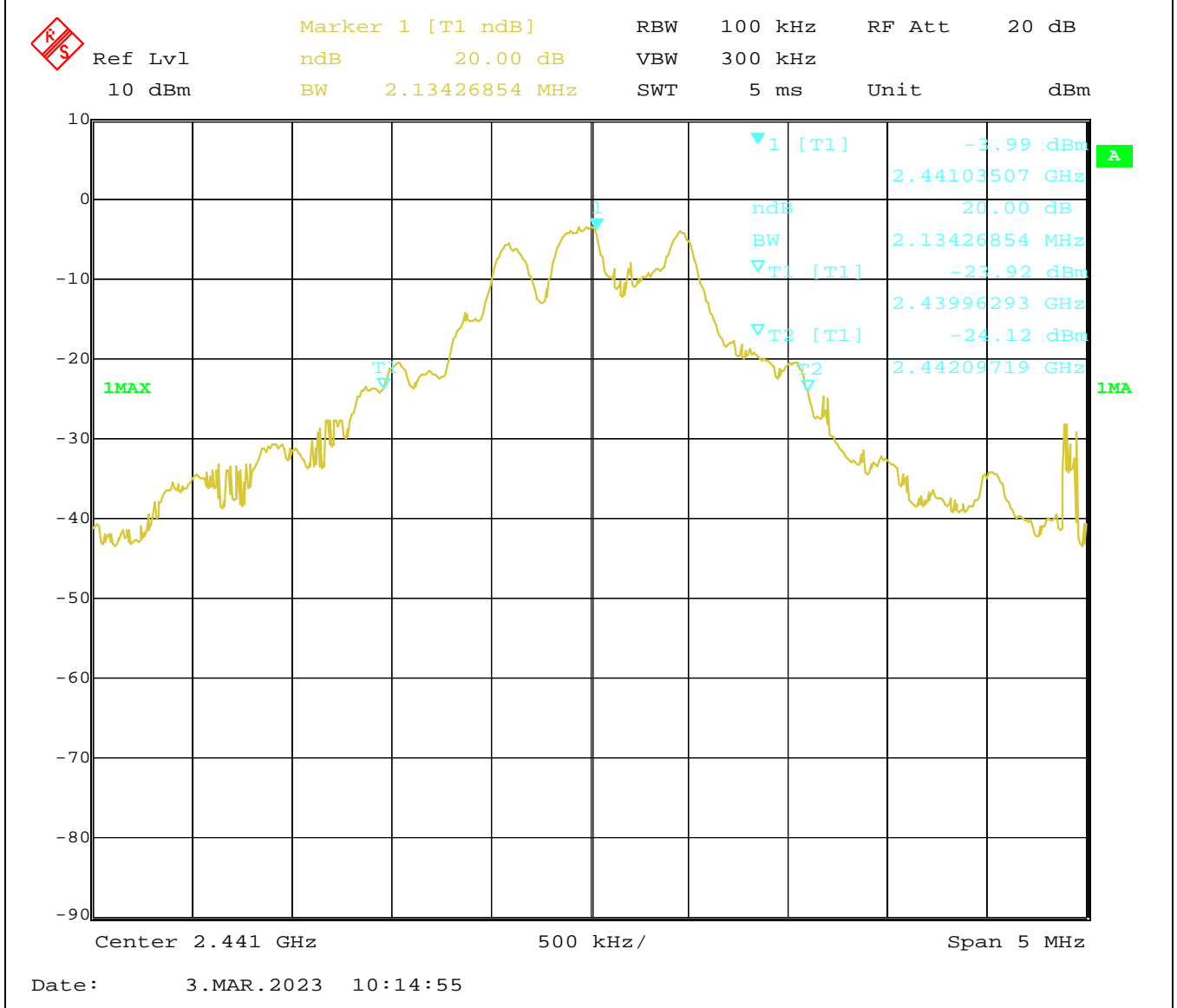
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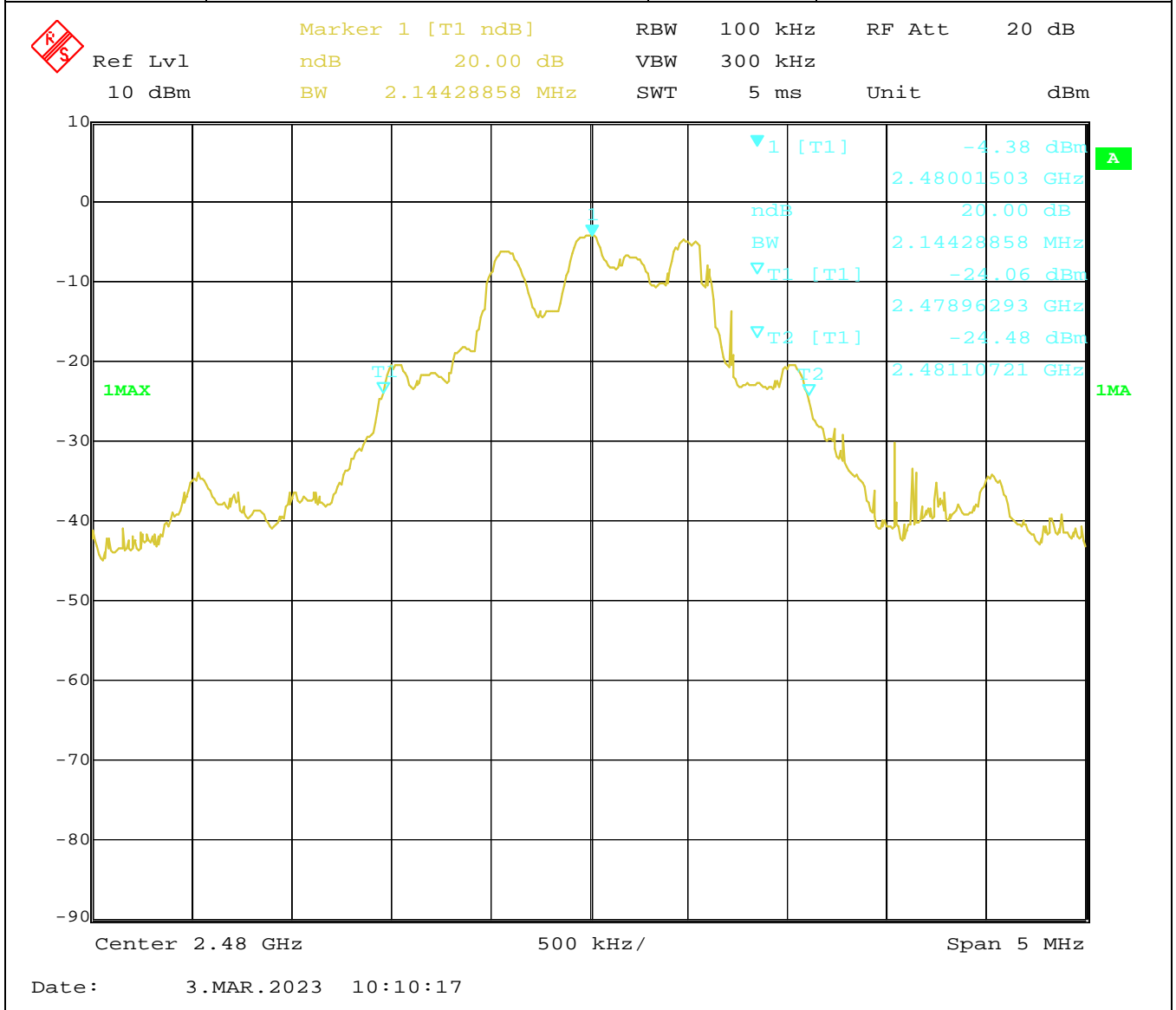
Product:	WIRED AND WIRELESS GAMING MOUSE	Test Mode:	Keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.134MHz	--	--



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Product:	WIRED AND 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	2.144MHz	--	--



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## 10.0 FCC ID Label

**FCC ID: TUVDS-2945C**

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



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11.2

Outside View- Mouse



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Outside View-Mouse



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Outside View-Mouse

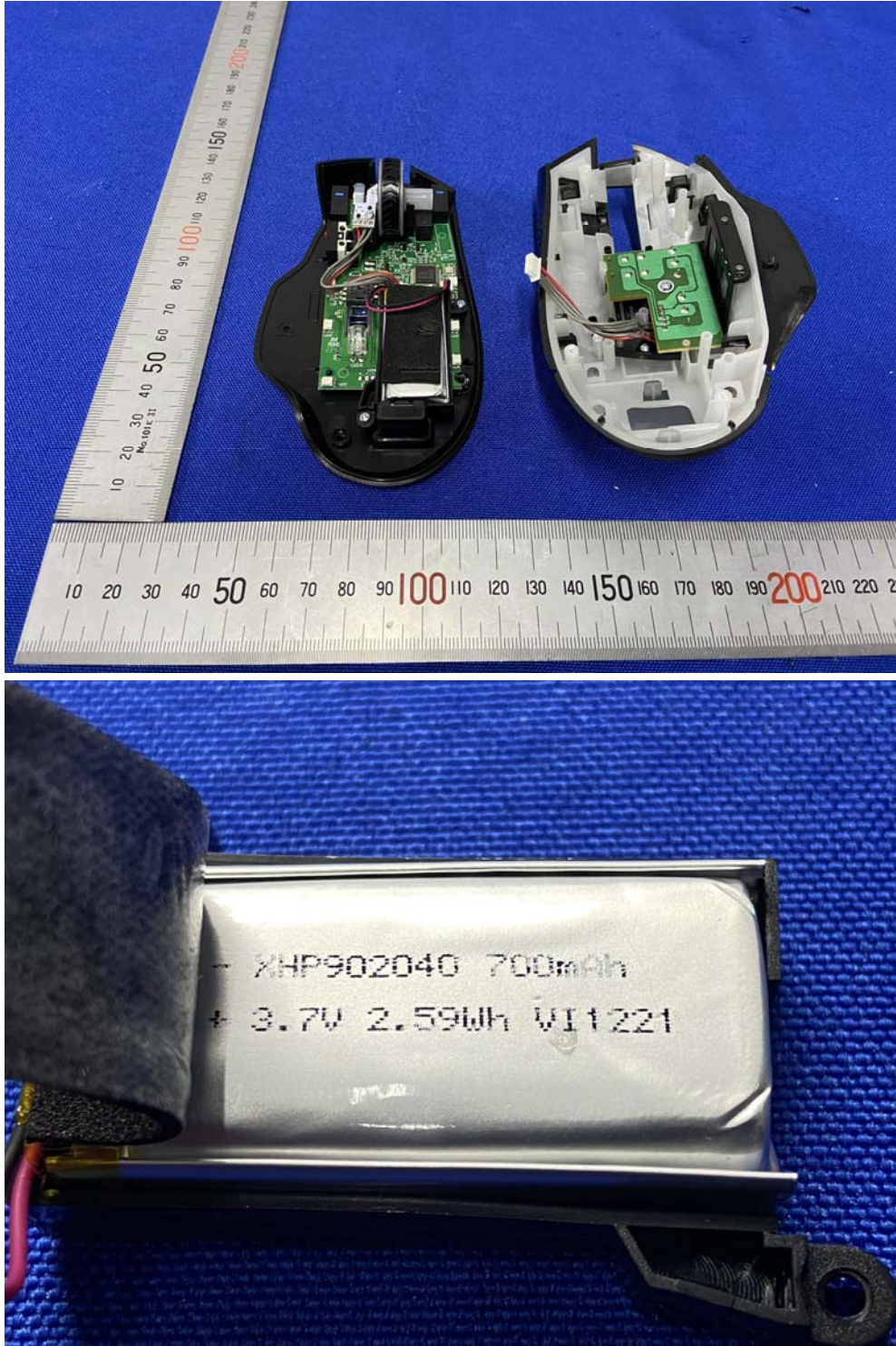


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Inside View-Mouse

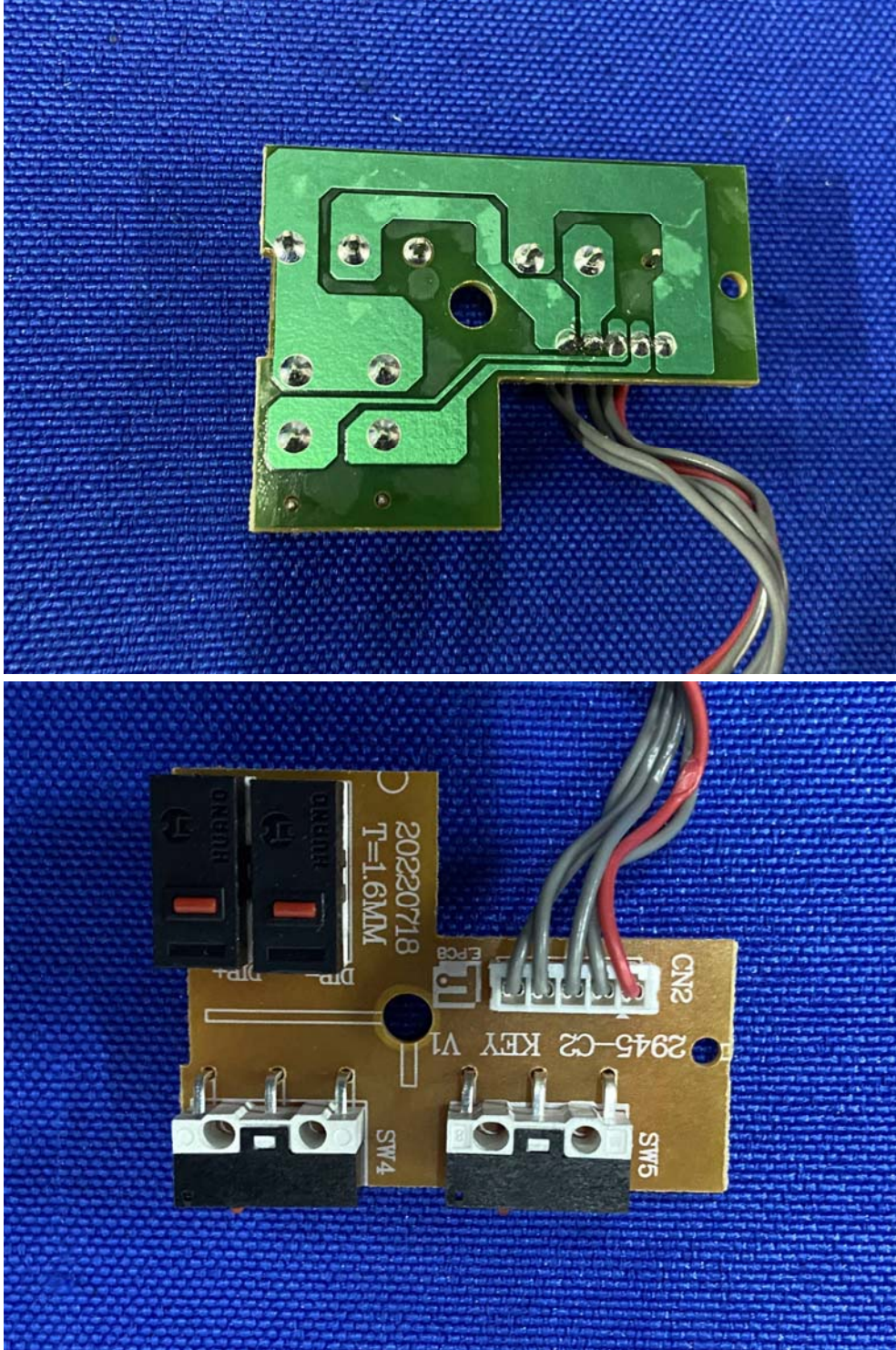


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Inside View-Mouse

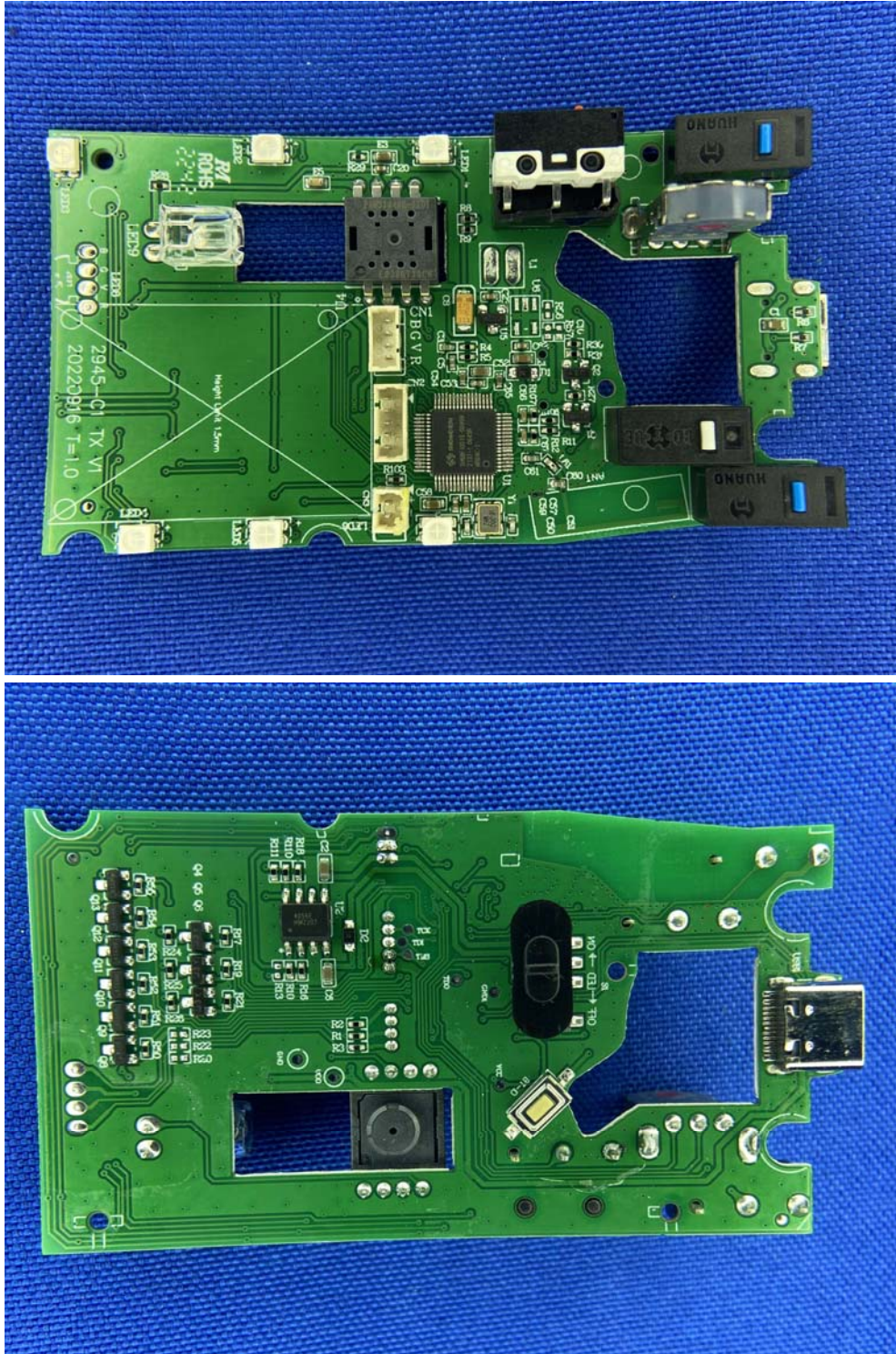


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Inside View-Mouse



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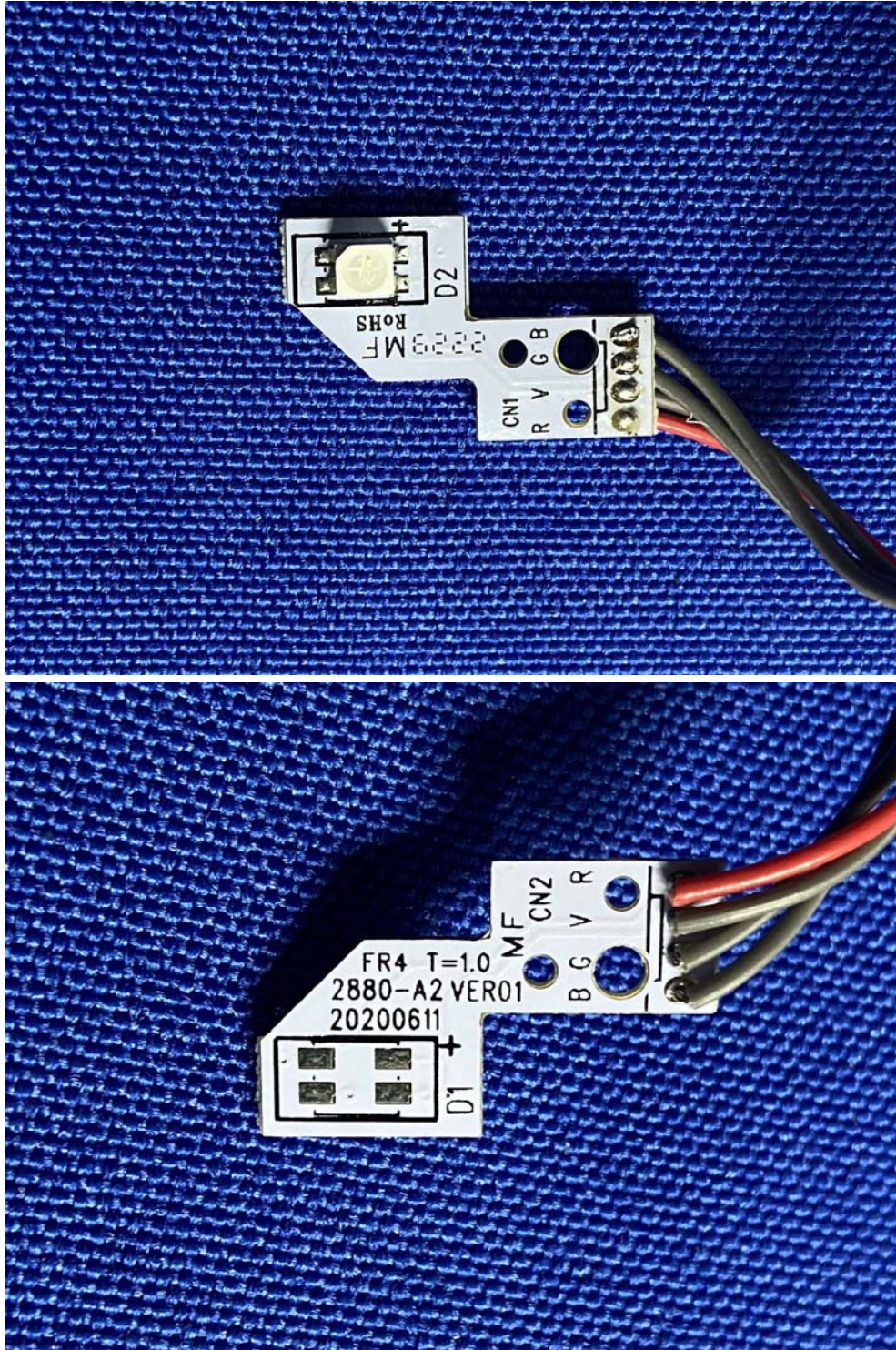
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Inside View-Mouse



--End of the Report--

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