



Report No.: FCC1907250

File reference No.: 2019-08-12

Applicant: Dongguan IMLONG Electronic Co., Ltd.

Product: Wireless Rechargeable Mouse

Model No.: YL-W1809-CHG, 7142-24BK

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: August 12, 2019

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 17025:2005 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 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: Dongguan IMLONG Electronic Co., Ltd.
Address: Huixiang Road5, Jinglian Community, Qiaotou Town, Dongguan City, Guangdong Province, China.
Telephone: 13316634339/0769-81038178
Fax: 0769-81038179

1.3 Description of EUT

Product: Wireless Rechargeable Mouse
Manufacturer: Dongguan IMLONG Electronic Co., Ltd.
Address: Huixiang Road5, Jinglian Community, Qiaotou Town, Dongguan City, Guangdong Province, China.
Brand Name: N/A
Model Number: YL-W1809-CHG
Additional Model Name: 7142-24BK
Input Voltage: DC3.7V, Built-in 3.7V, 400mAh Li-ion Battery
Modulation Type: GFSK
Operation Frequency: 2405-2475MHz
Channel List: 2405MHz, 2411MHz, 2417MHz, 2451MHz, 2457MHz, 243MHz, 2469MHz, 2475MHz
Antenna Designation: PCB antenna with gain 0dBi Max
Hardware Version: WM1809-CHG
Software Version: V1.0

1.4 Submitted Sample

2 Sample

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1.5 Test Duration

2019-07-24 to 2019-08-10

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

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
Ultra Broadband ANT	R&S	HL562	100157	2019-06-21	2020-06-20
Loop Antenna	EMCO	6507	00078608	2019-06-21	2020-06-20
Spectrum	R&S	FSIQ26	100292	2019-06-21	2020-06-20
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2019-06-21	2020-06-20
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-08	2021-07-08
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03
9*6*6 Anechoic	--	--	N/A	2018-02-07	2021-02-06
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2019-06-21	2020-06-20
Spectrum	RS	FSP	1164.4391.38	2019-01-18	2020-01-17
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA	--	2019-05-22	2020-05-21
RF Cable	Zhengdi	7m	--	2019-03-08	2020-03-07
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	2018-08-05 2019-08-05	2019-08-04 2020-08-04
DC Power Supply	Jingtong	JT12098	WYK-305	2018.08.20	2019-08-19
LISN	SCHAFFNER	NNB42	00012	2019-01-08	2020-01-07

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	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 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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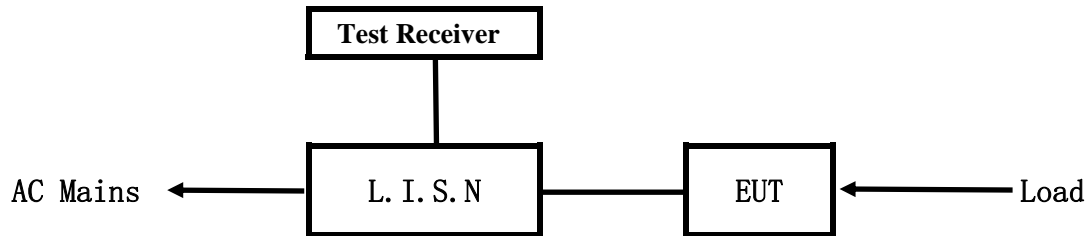
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



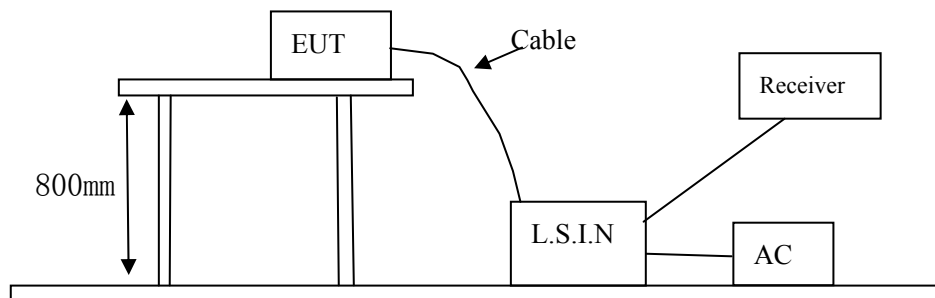
EUT: Equipment Under Test

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: 120V~, 60Hz

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

Device	Manufacturer	Model	FCC ID
Wireless Rechargeable Mouse	Dongguan IMLONG Electronic Co., Ltd.	YL-W1809-CHG, 7142-24BK	2AH9Y-YL-W1809-CHG

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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 C63.4 -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

Frequency(MHz)	Class A Limits (dB μ V)		Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 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:

Pass

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

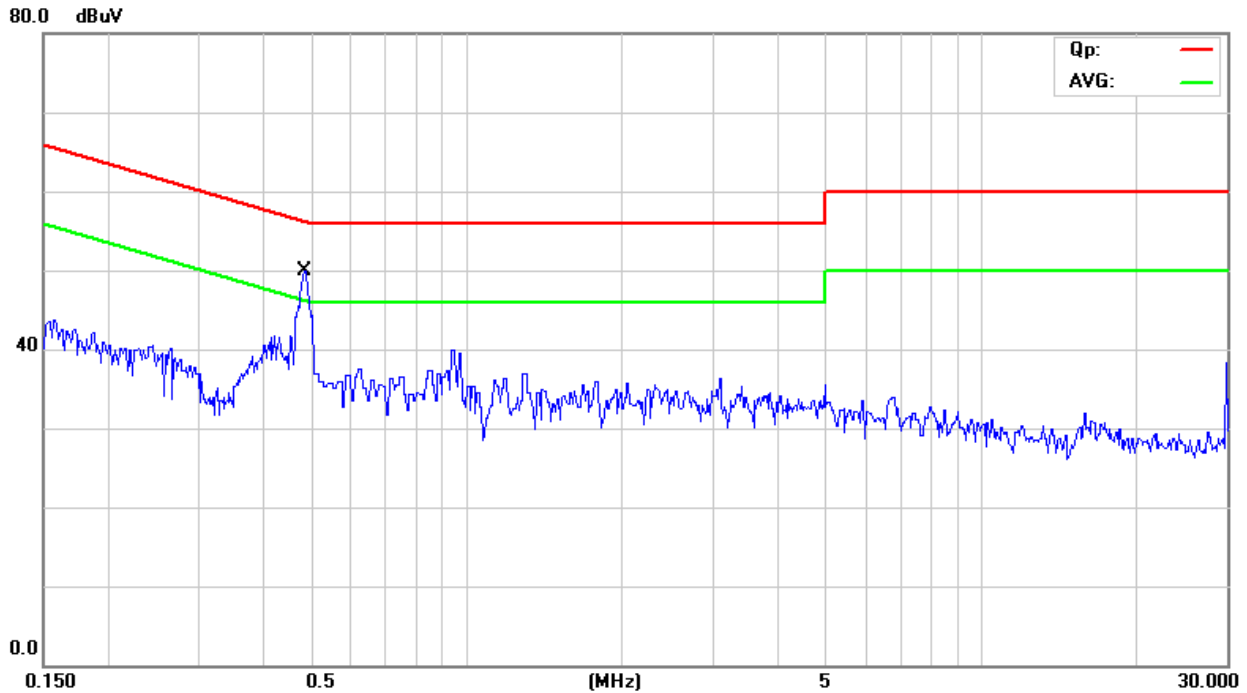
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition : Charging and Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4828	33.00	9.77	42.77	56.29	-13.52	QP	
2		0.4828	7.50	9.77	17.27	46.29	-29.02	AVG	

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

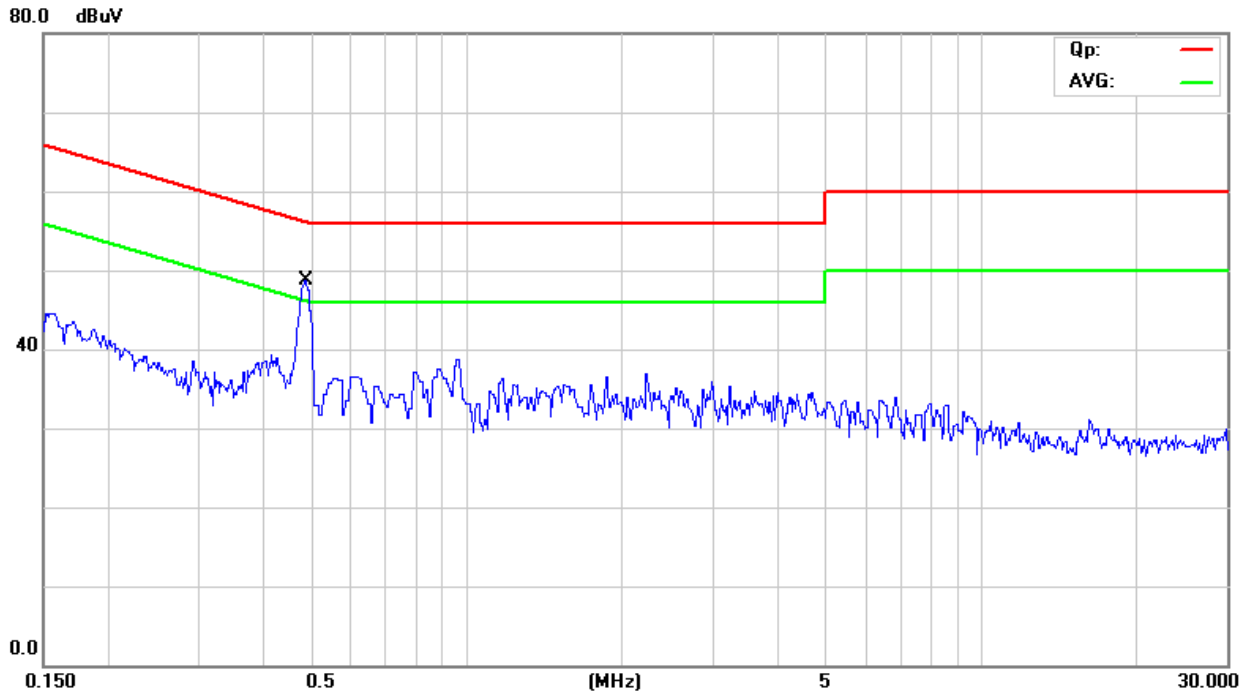
EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition : Charging and Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.4843	35.10	9.77	44.87	56.26	-11.39	QP	
2		0.4843	7.40	9.77	17.17	46.26	-29.09	AVG	

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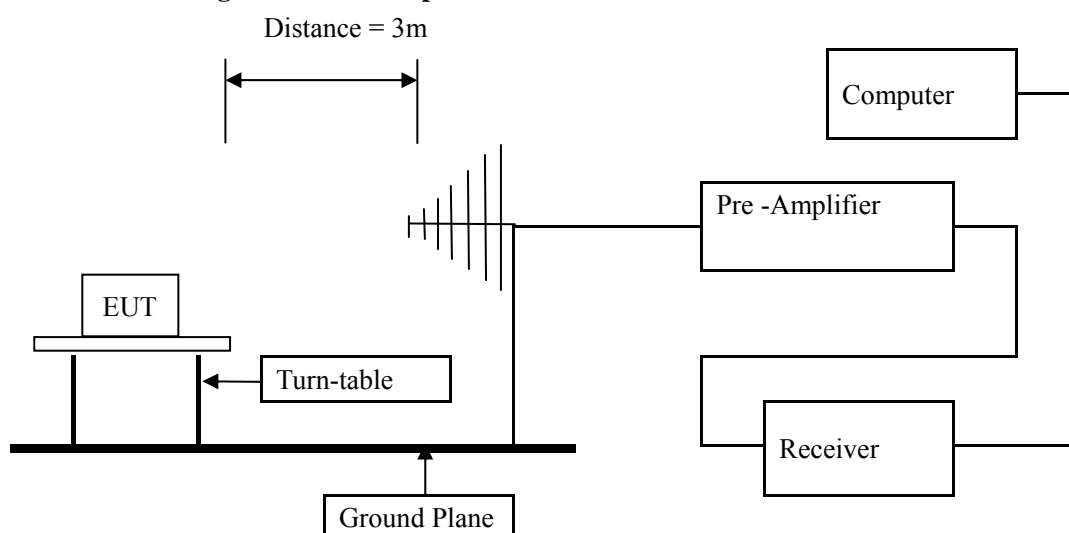


6 Radiated Emission Test

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



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)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
 5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK. For fundamental measurement, PK detector used.
 6. Battery fully charged were used during tests.

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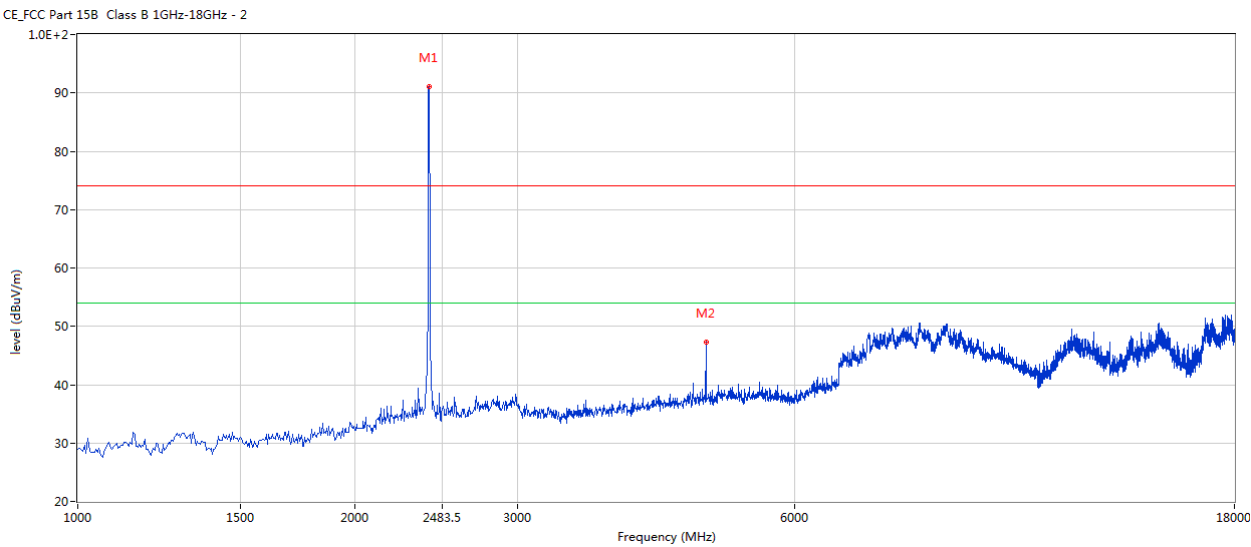
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6.5 Test result
A Fundamental & Harmonics Radiated Emission Data

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

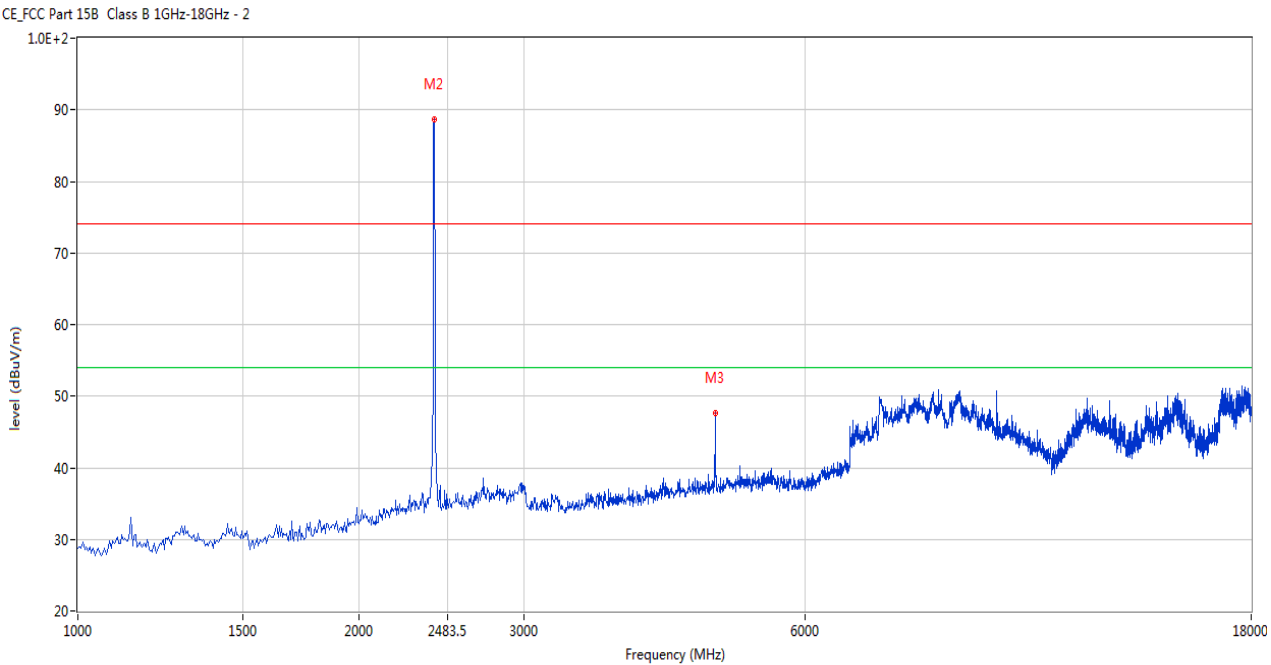


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2406.398	91.13	-3.57	114.0	-22.87	Peak	110.00	100	H	Pass
2	4807.048	46.27	3.13	54.0	-7.73	Peak	79.00	100	H	Pass

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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
2	2406.398	88.72	-3.57	114.0	-25.28	Peak	81.00	100	V	Pass
3	4807.048	47.81	3.13	54.0	-6.19	Peak	173.00	100	V	Pass

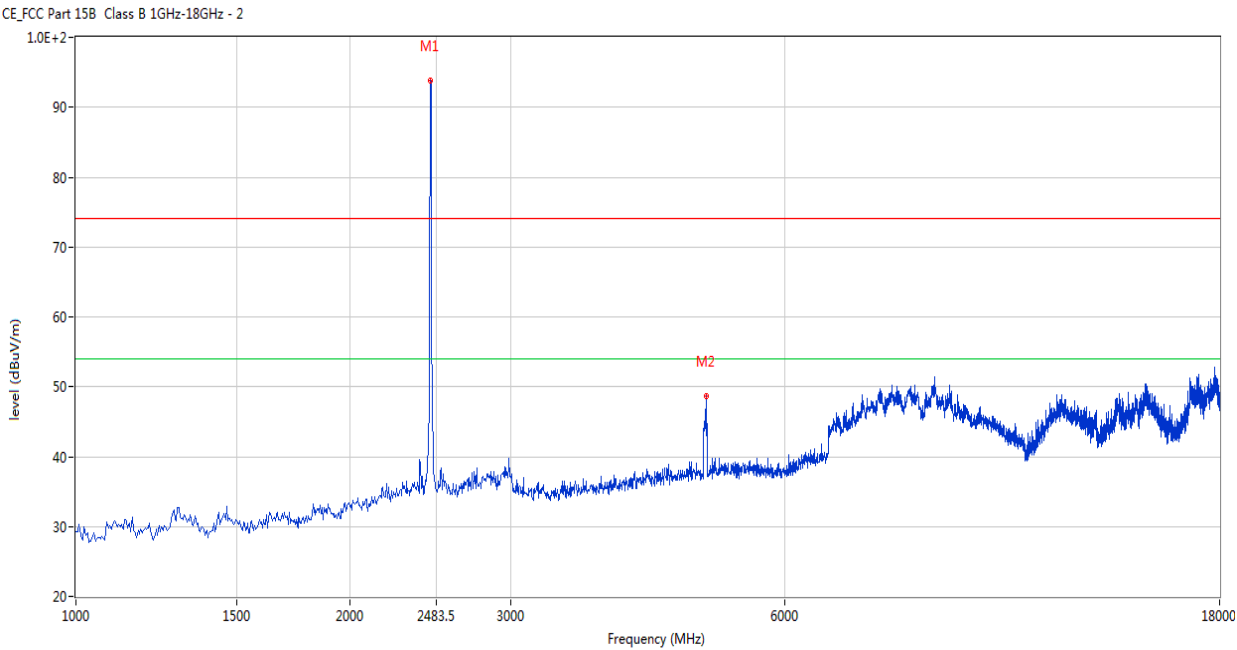
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Please refer to the following test plots for details: **Middle Channel**
Horizontal

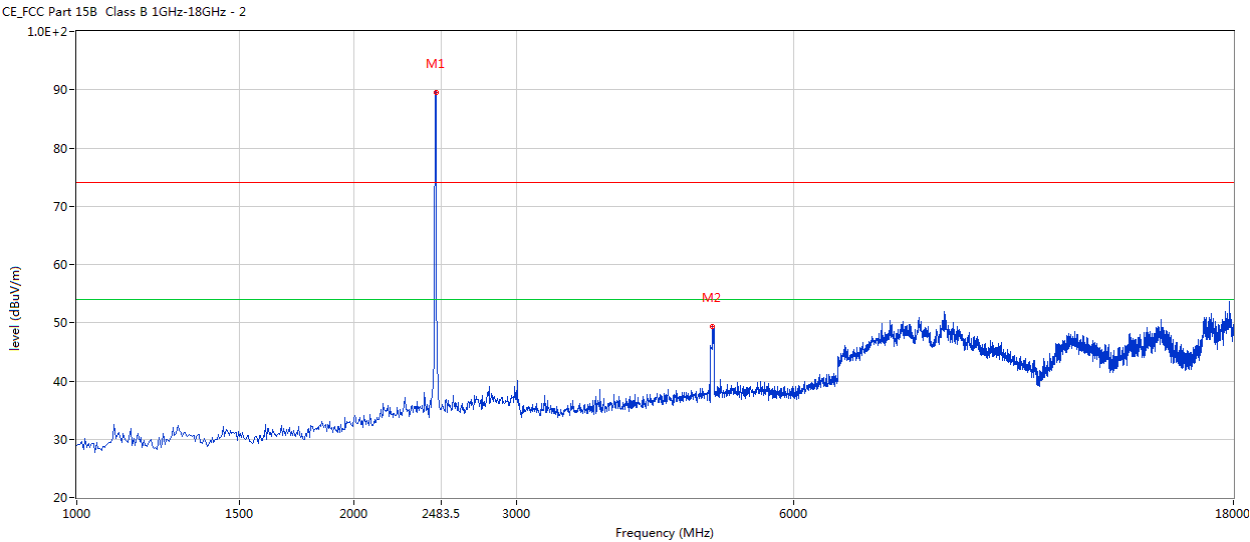


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2448.888	93.83	-3.57	114.0	-20.17	Peak	111.00	100	H	Pass
1*	2448.888	86.52	-3.57	94.0	-7.48	AV	111.00	100	H	Pass
2	4900.525	45.71	3.22	54.0	-8.29	Peak	270.00	100	H	Pass

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Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2453.137	89.50	-3.57	114.0	-24.50	Peak	173.00	100	V	Pass
2	4900.525	45.29	3.22	54.0	-8.71	Peak	164.00	100	V	Pass

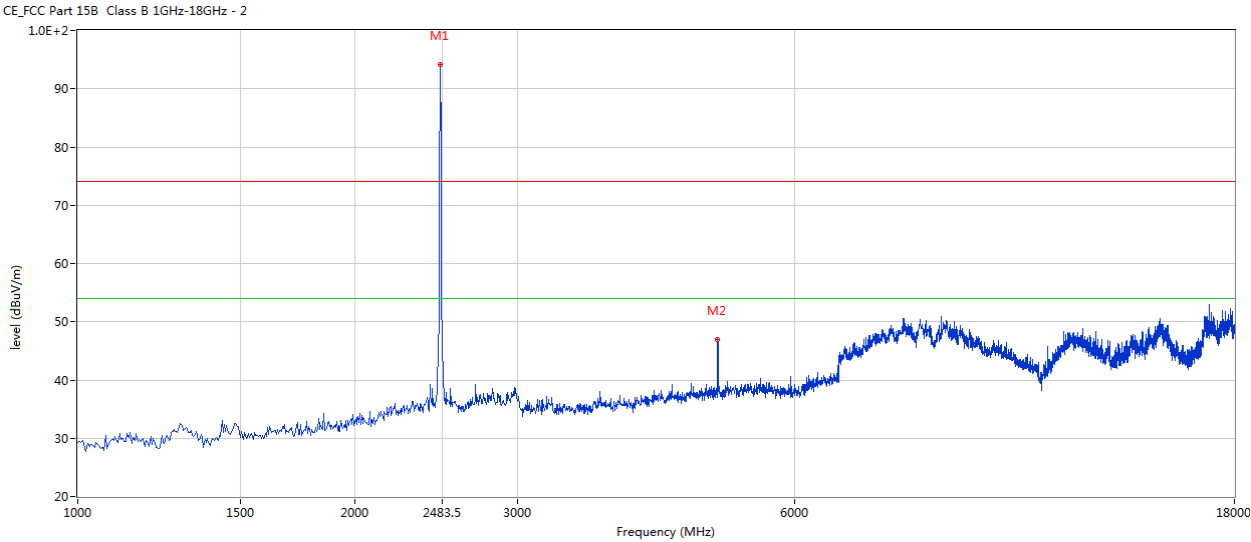
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Please refer to the following test plots for details: **High Channel**
Horizontal



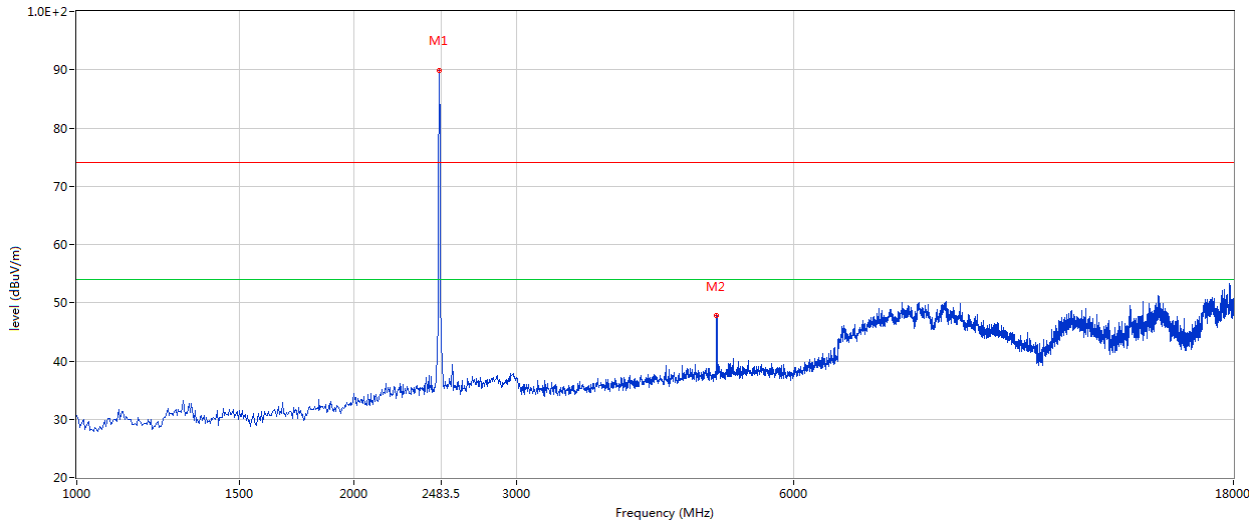
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2474.381	94.21	-3.57	114.0	-19.79	Peak	122.00	100	H	Pass
1*	2474.381	87.06	-3.57	94.0	-6.94	AV	122.00	100	H	Pass
2	4947.263	46.93	3.33	54.0	-7.07	Peak	268.00	100	H	Pass

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Vertical

CE_FCC Part 15B 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	2474.381	89.94	-3.57	114.0	-24.06	Peak	198.00	100	V	Pass
2	4947.263	47.87	3.33	54.0	-6.13	Peak	170.00	100	V	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, It is only the floor noise. No necessary to take down.

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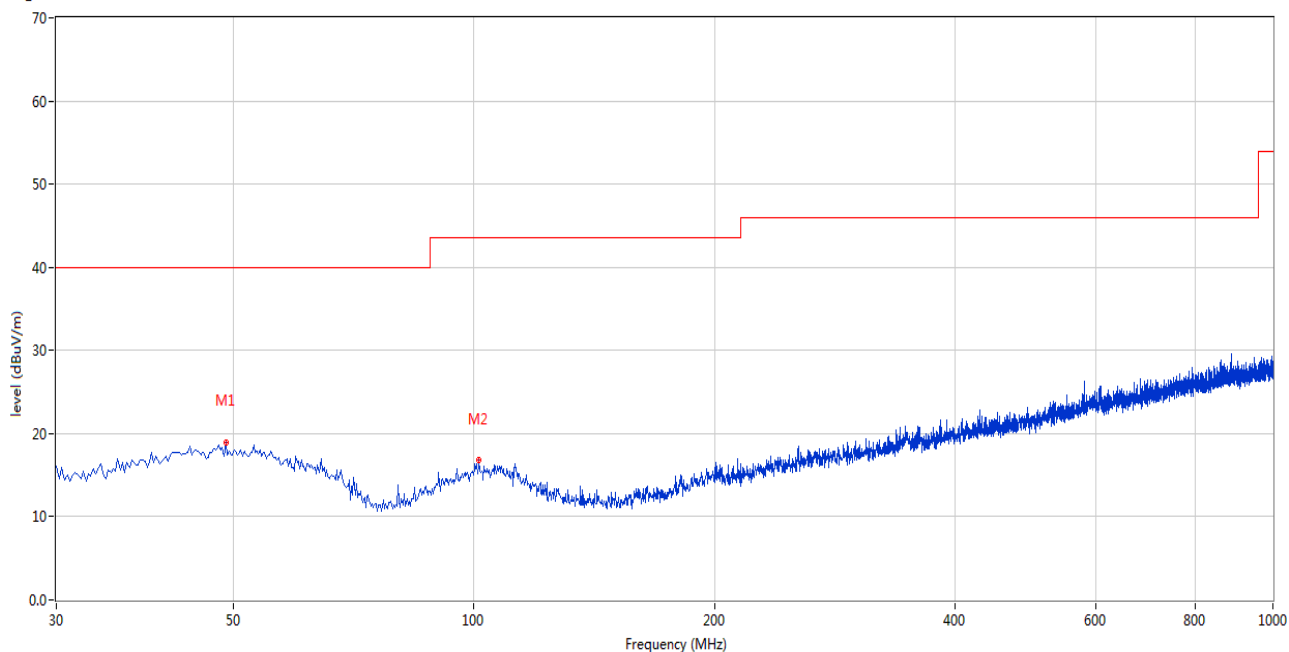
B. General Radiated Emission Data
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting

Results: Pass

Please refer to following diagram for individual

FCC_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	48.910	18.99	-11.21	40.0	-21.01	Peak	85.00	100	H	Pass
2	101.520	16.85	-13.44	43.5	-26.65	Peak	182.00	200	H	Pass

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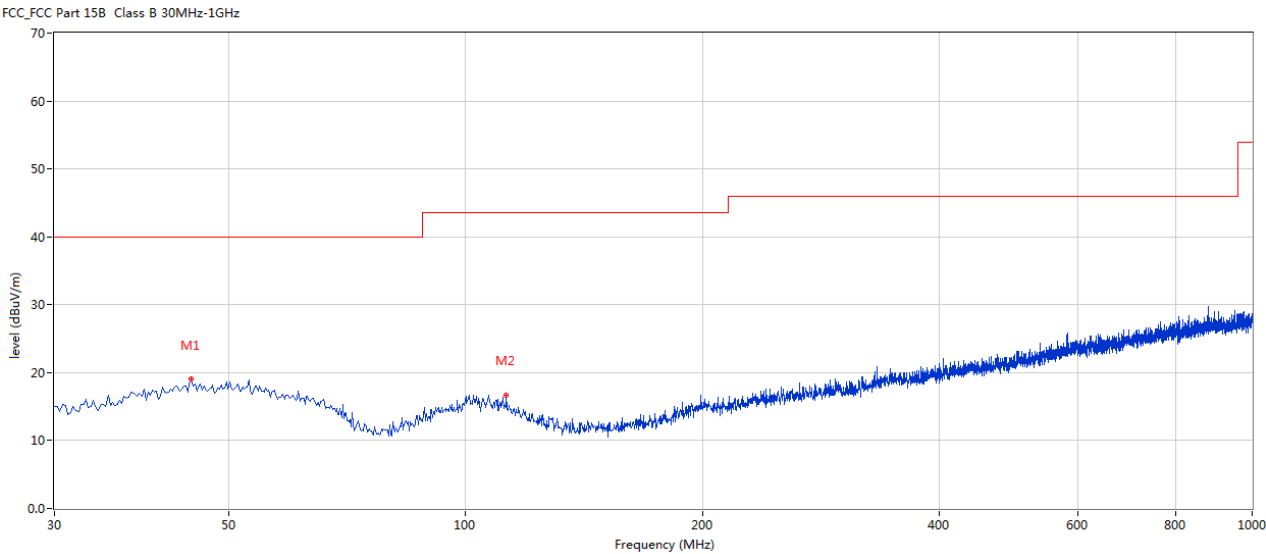


Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep 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	44.789	19.06	-11.42	40.0	-20.94	Peak	355.00	100	V	Pass
2	112.672	16.75	-13.95	43.5	-26.75	Peak	228.00	200	V	Pass

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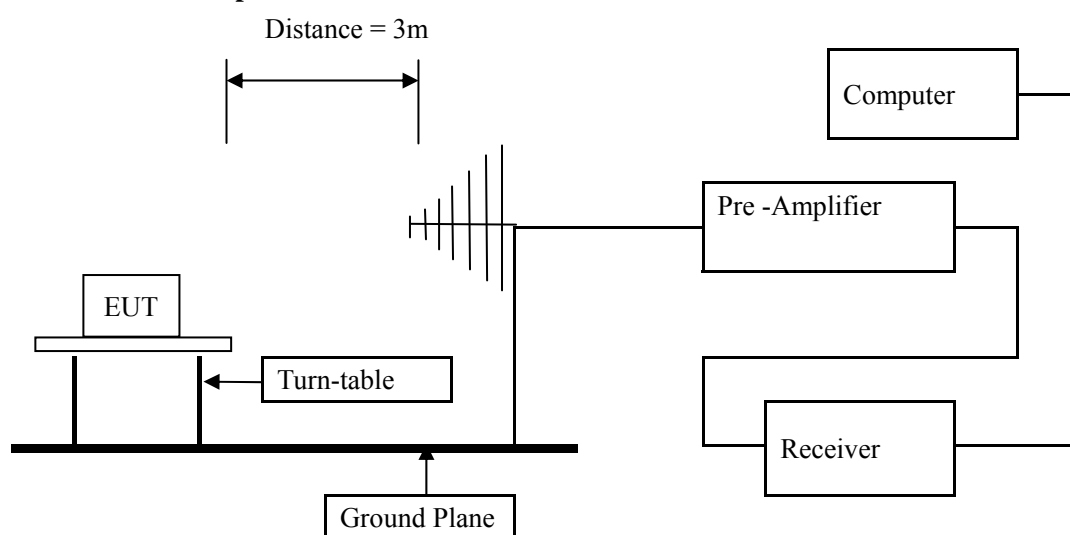


7. Band Edge

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
- (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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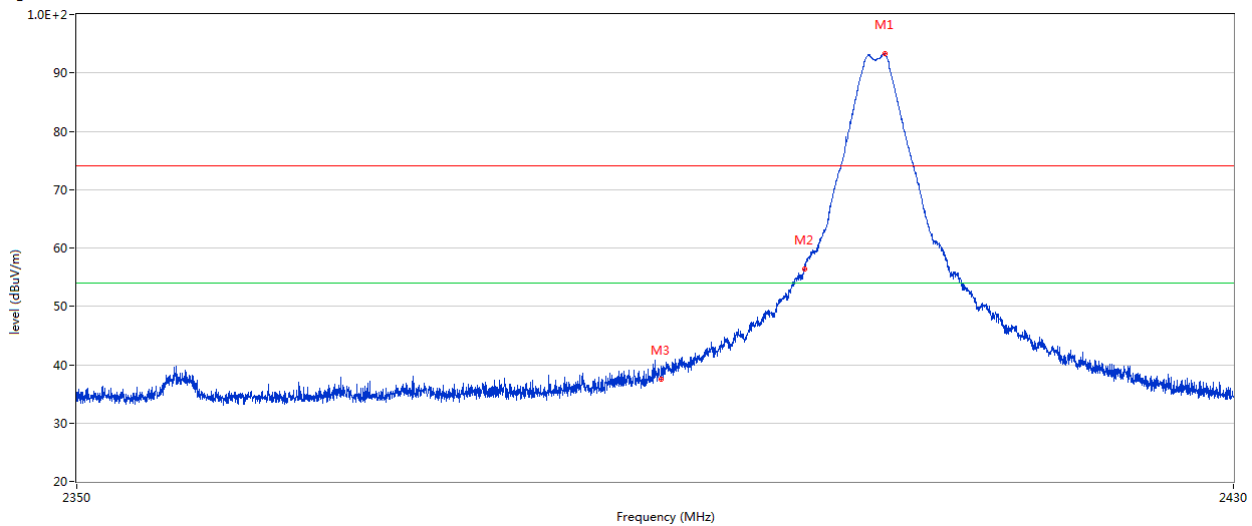
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7.6 Test Result

Product:	Wireless Rechargeable Mouse		Polarity	Horizontal
Mode	Low Channel Keeping Transmitting		Test Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		--	--
2400MHz	PK (dBμV/m)	56.31	Limit	74 dBμV/m
2400MHz	AV (dBμV/m)	43.29	Limit	54 dBμV/m
2390 MHz	PK (dBμV/m)	37.48	Limit	74 dBμV/m
2390 MHz	AV (dBμV/m)	--	Limit	54 dBμV/m

CE_FCC Part 15B 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
2	2400.007	56.31	-3.57	74.0	-17.69	Peak	111.00	100	H	Pass
2*	2400.007	43.29	-3.57	54.0	-10.71	AV	111.00	100	H	Pass
3	2390.050	37.48	-3.53	74.0	-36.52	Peak	129.00	100	H	Pass

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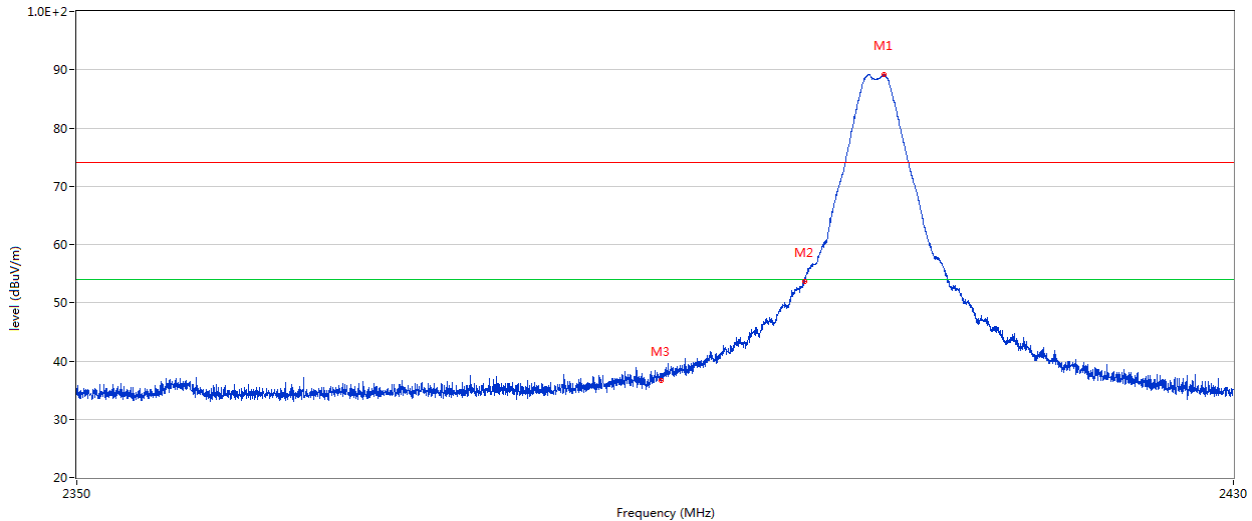
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Product:	Wireless Rechargeable Mouse		Detector	Vertical
Mode	Low Channel Keeping Transmitting		Test Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		--	--
2400MHz	PK (dBμV/m)	53.71	Limit	74 dBμV/m
2400MHz	AV (dBμV/m)	41.33	Limit	54 dBμV/m
2390 MHz	PK (dBμV/m)	36.69	Limit	74 dBμV/m
2390 MHz	AV (dBμV/m)	--	Limit	54 dBμV/m

CE_FCC Part 15B 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
2	2400.007	53.71	-3.57	74.0	-20.29	Peak	77.00	100	V	Pass
2*	2400.007	41.33	-3.57	54.0	-12.67	AV	77.00	100	V	Pass
3	2390.070	36.69	-3.53	74.0	-37.31	Peak	5.00	100	V	Pass

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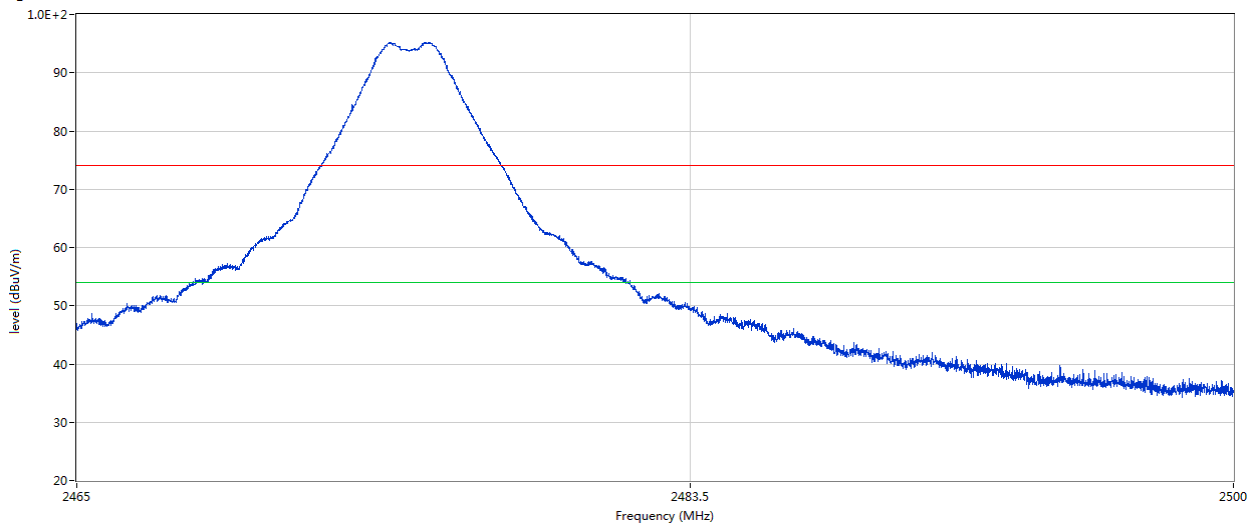
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Product:	Wireless Rechargeable Mouse		Polarity	Horizontal
Mode	High Channel Keeping Transmitting		Test Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		--	--
2483.5MHz	PK (dBμV/m)	50.31	Limit	74 dBμV/m
2483.5MHz	AV (dBμV/m)	--	Limit	54 dBμV/m

CE_FCC Part 15B 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
2	2483.5	50.31	-3.57	74.0	-23.69	Peak	112.00	100	H	Pass

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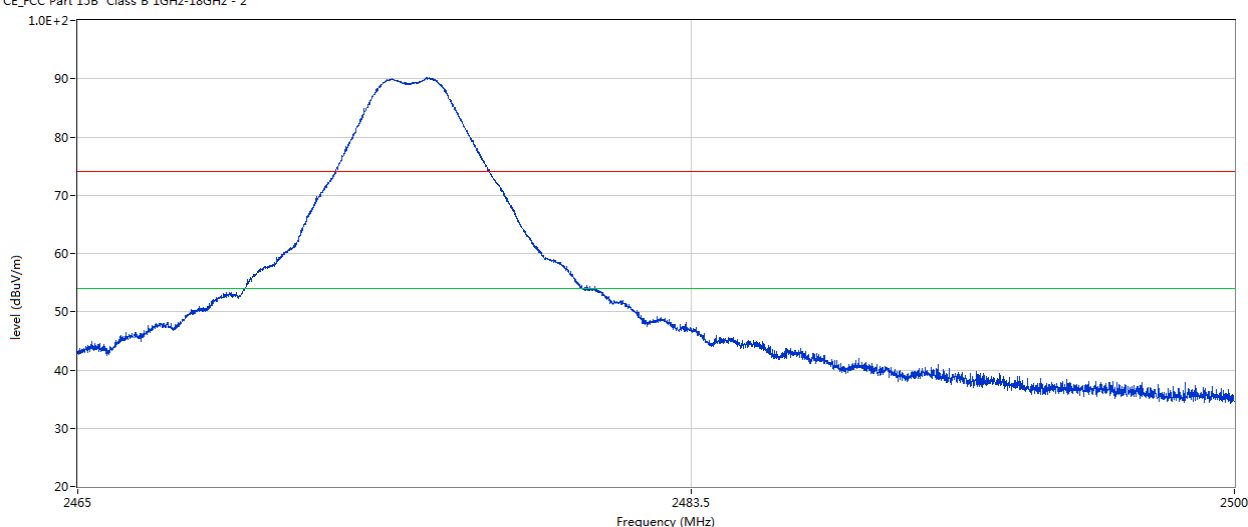
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Product:	Wireless Rechargeable Mouse		Detector	Vertical
Mode	High Channel Keeping Transmitting		Test Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		--	--
2483.5MHz	PK (dBμV/m)	48.15	Limit	74 dBμV/m
2483.5MHz	AV (dBμV/m)	--	Limit	54 dBμV/m

CE_FCC Part 15B 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
2	2483.5	48.15	-3.57	74.0	-25.85	Peak	0.00	100	V	Pass

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.

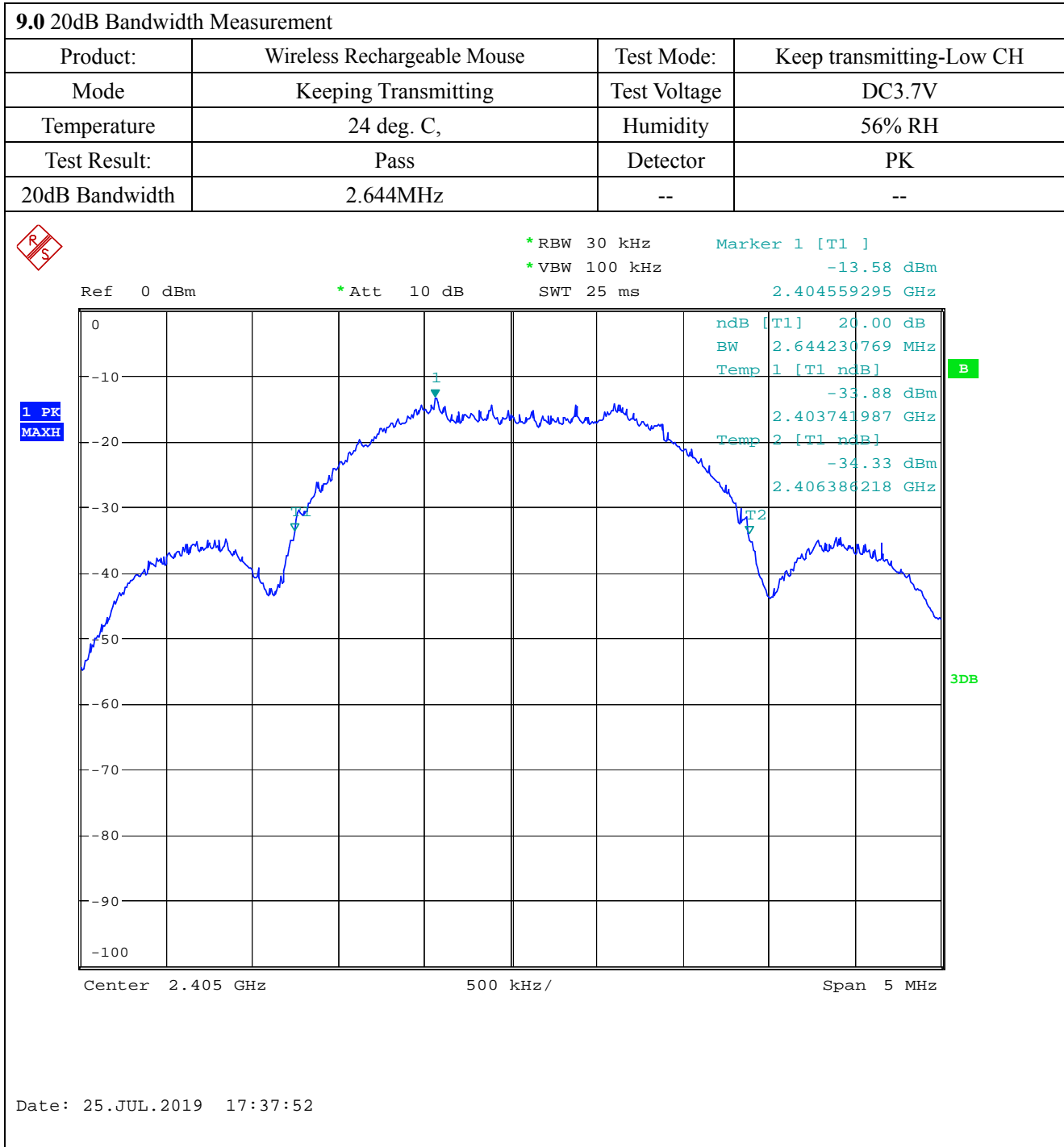
This product has a PCB antenna. The antenna gain is 0dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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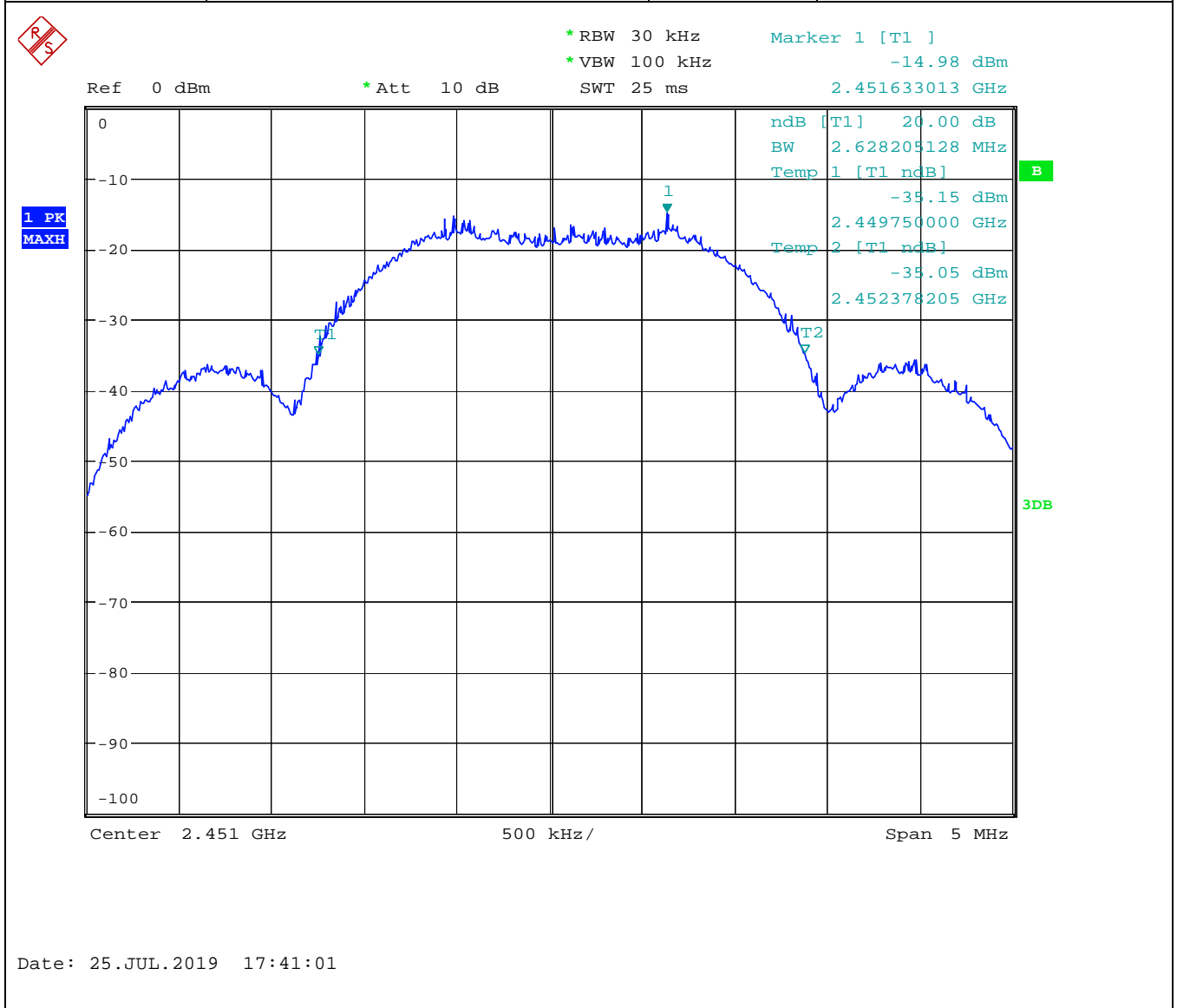
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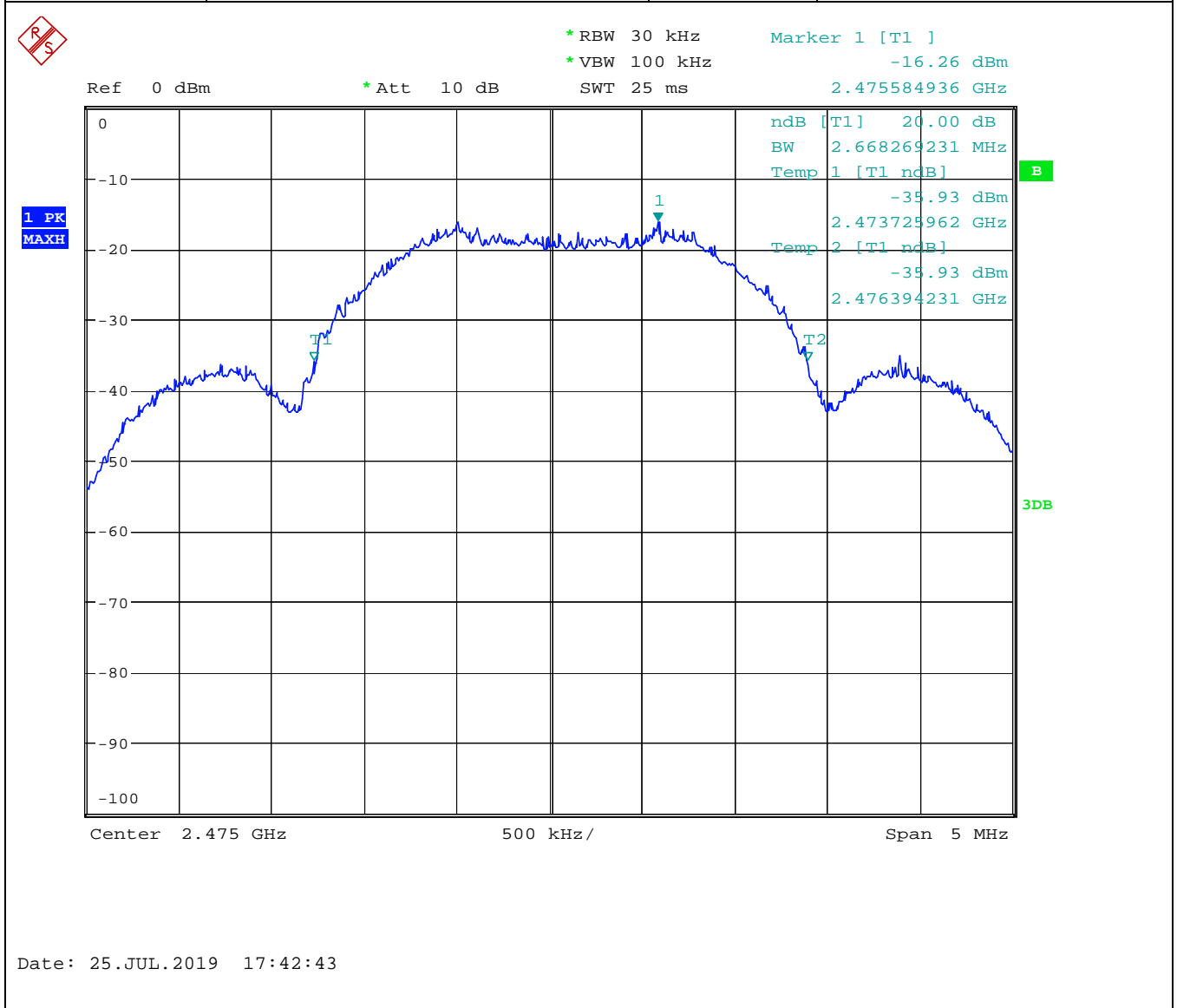
Product:	Wireless Rechargeable Mouse	Test Mode:	Keep transmitting-Mid CH
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.628MHz	--	--



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Product:	Wireless Rechargeable Mouse	Test Mode:	Keep transmitting-High CH
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.668MHz	--	--



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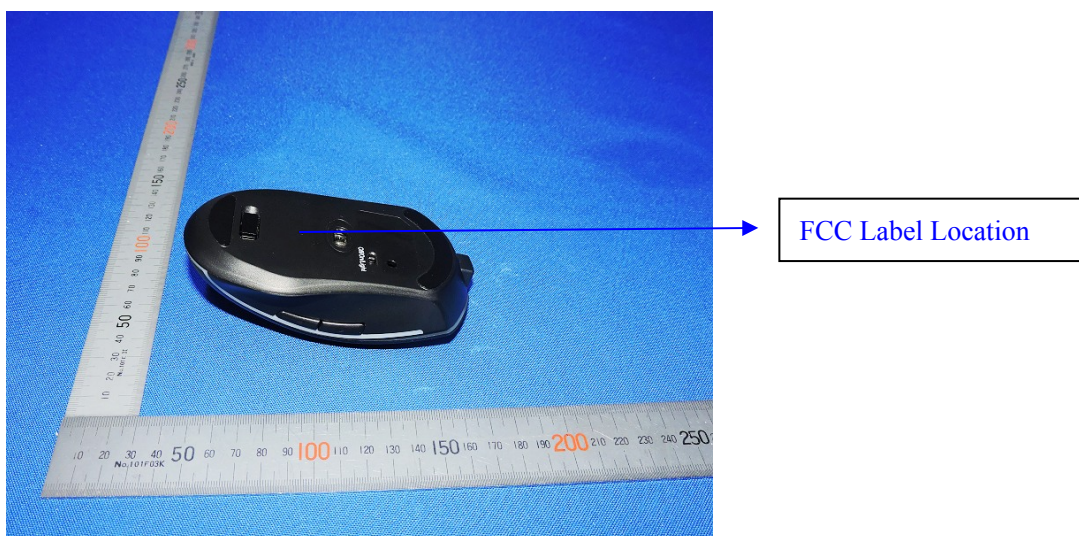


10.0 FCC ID Label

FCC ID: 2AH9Y-YL-W1809-CHG

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:



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

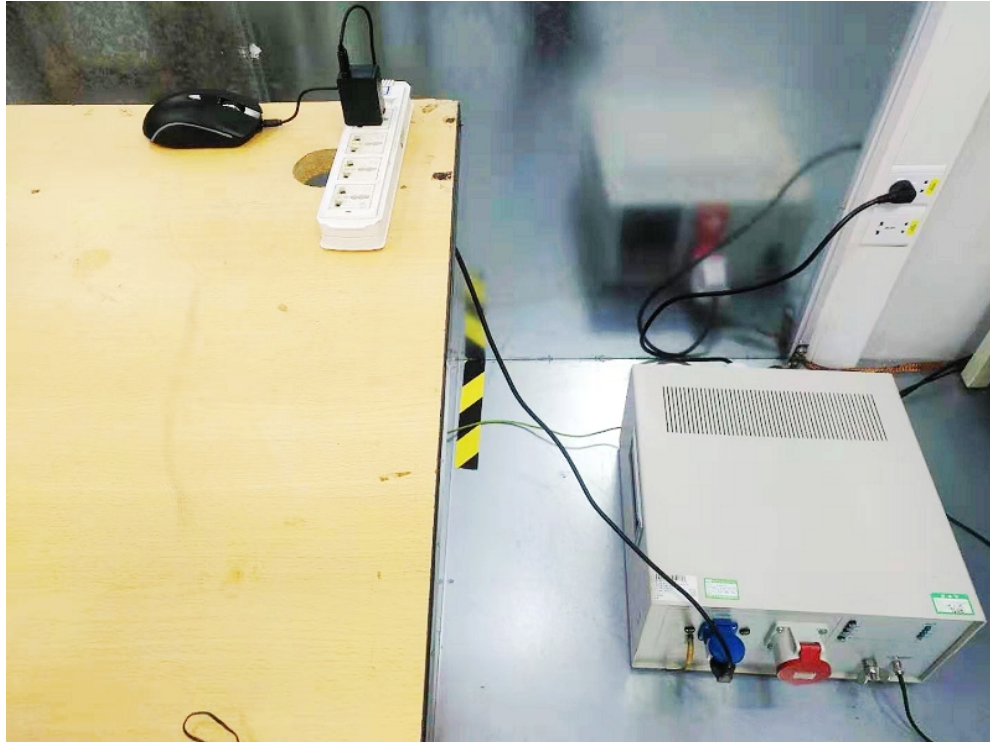
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11.0 Photos of Test Setup and EUT View

11.1 Conducted test View--



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Radiated emission test view



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11.2 Photographs – EUT

Outside View-Mouse



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Photographs – EUT

Outside View-Mouse



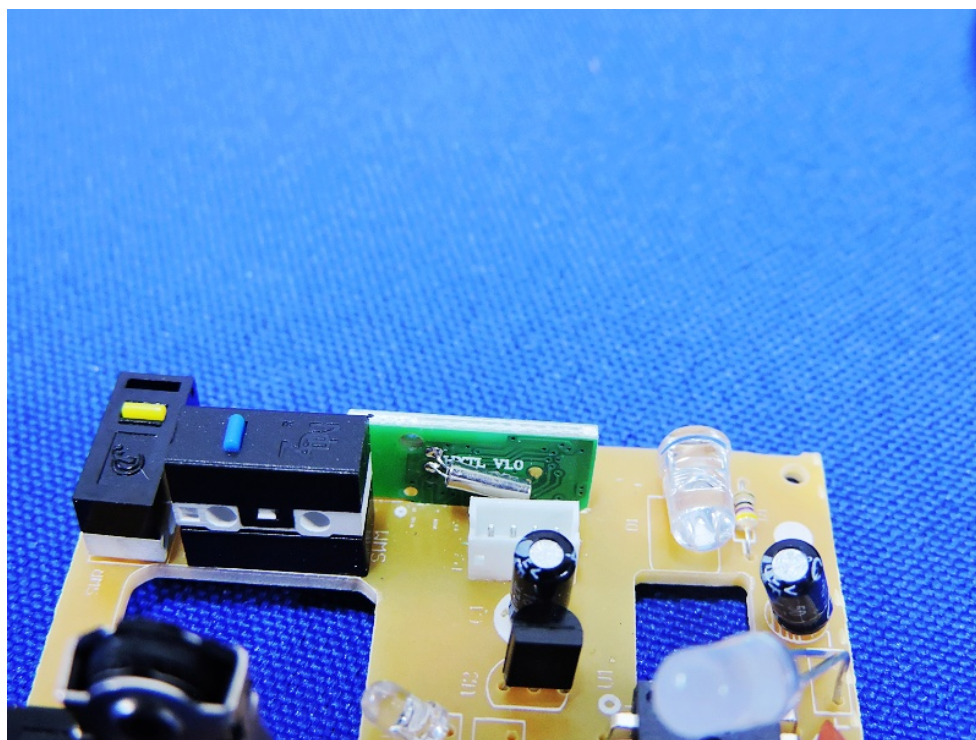
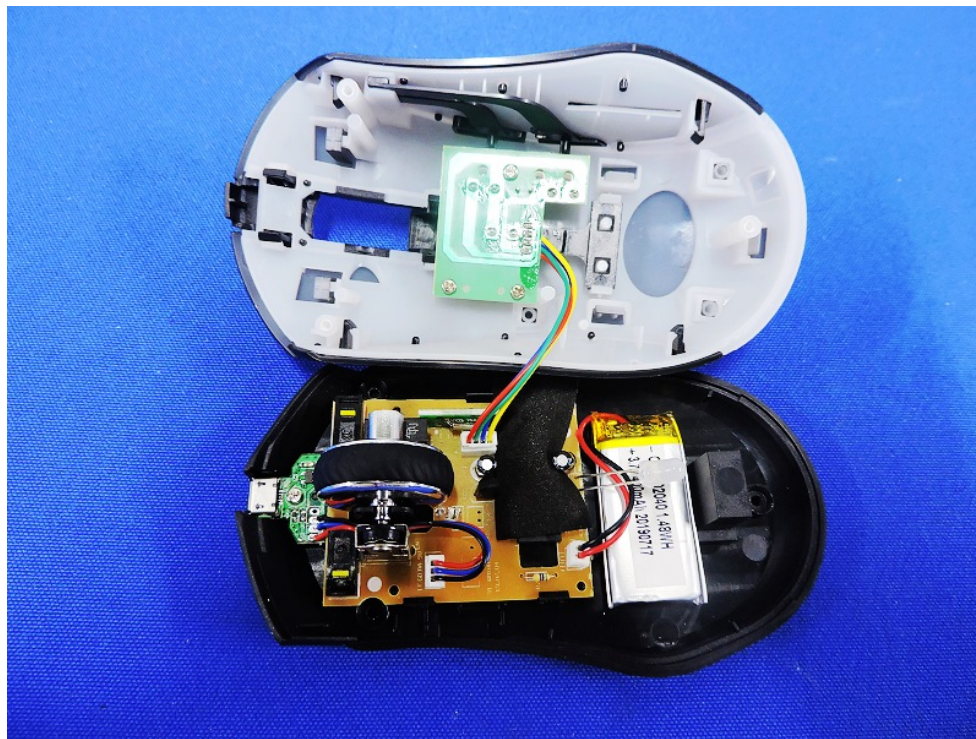
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Inside view-Mouse



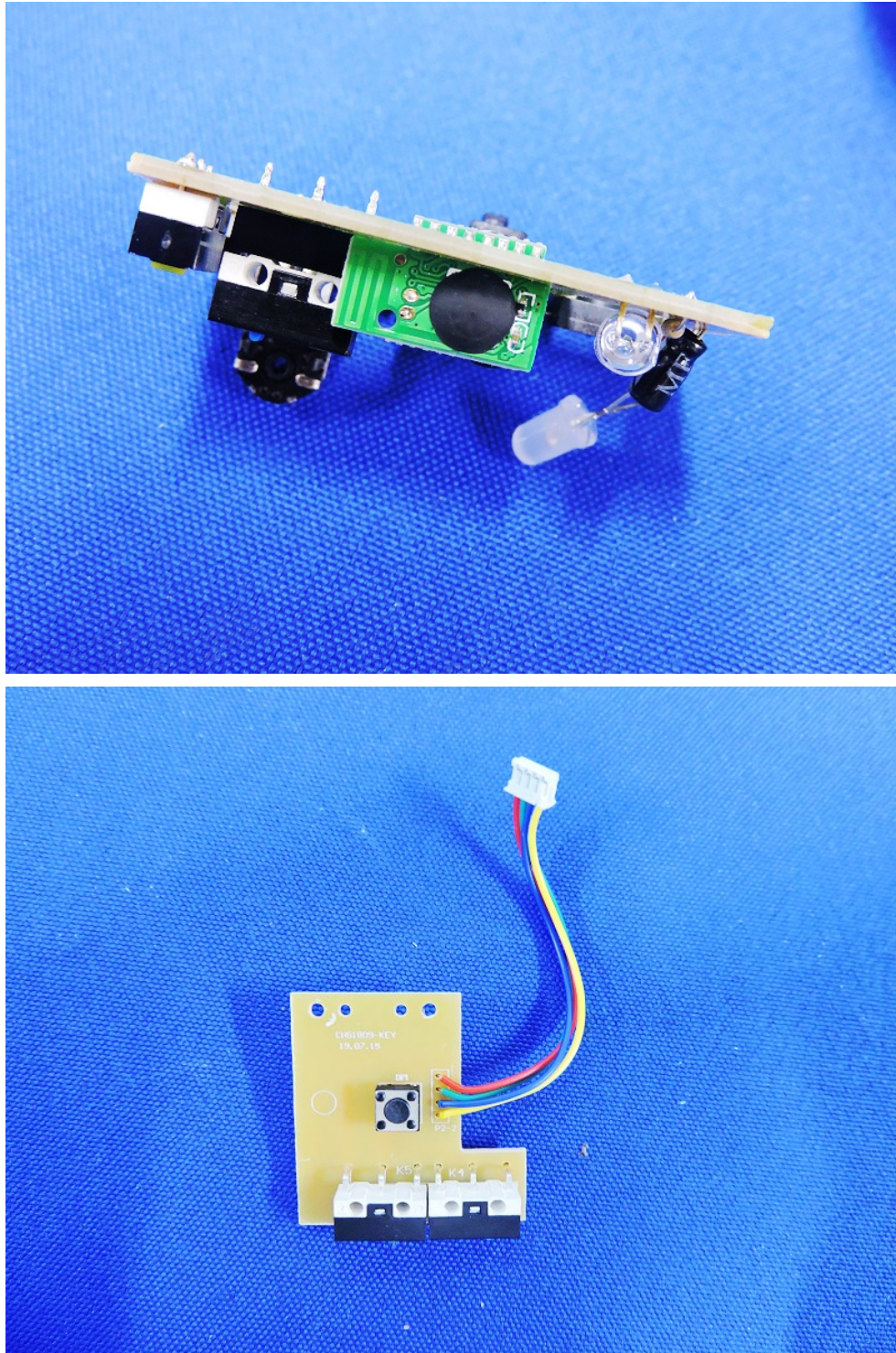
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Inside view-Mouse



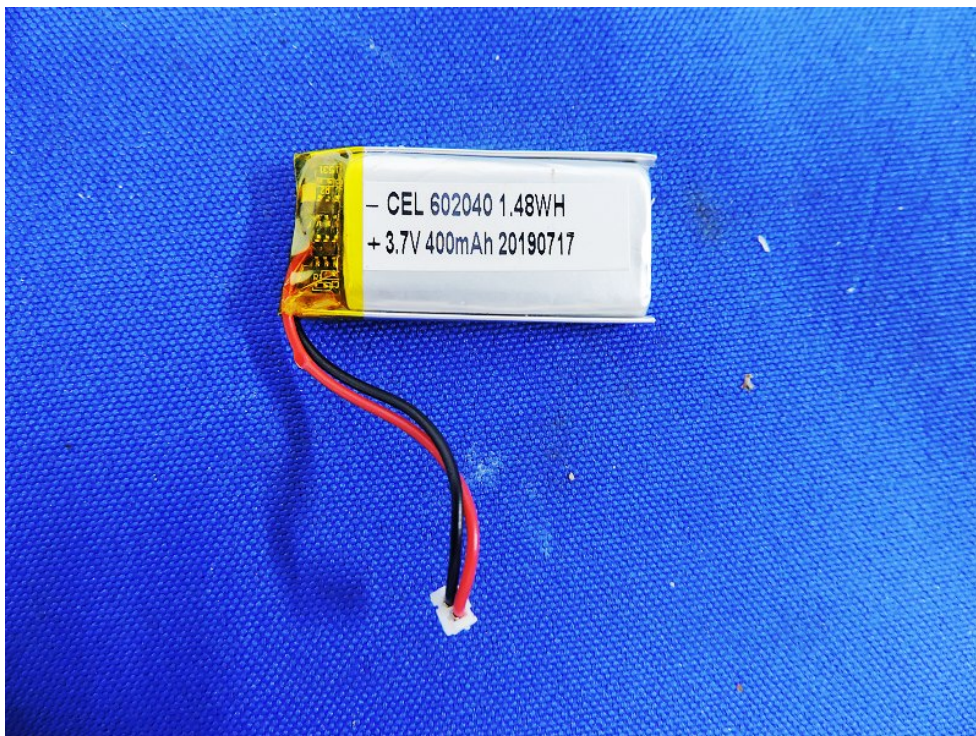
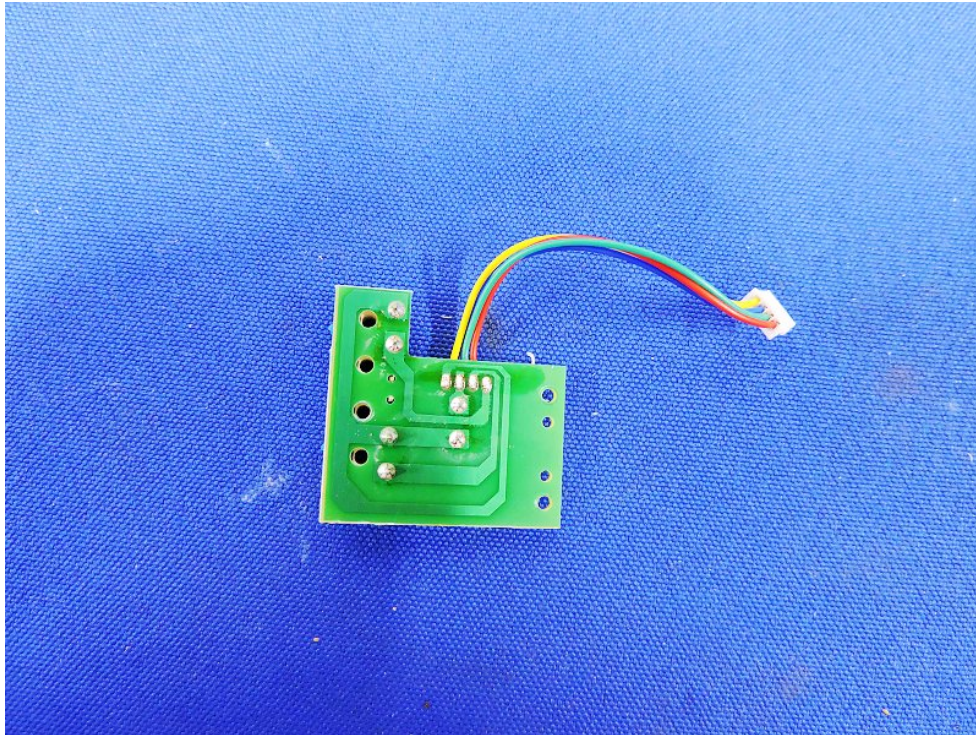
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Inside view-Mouse



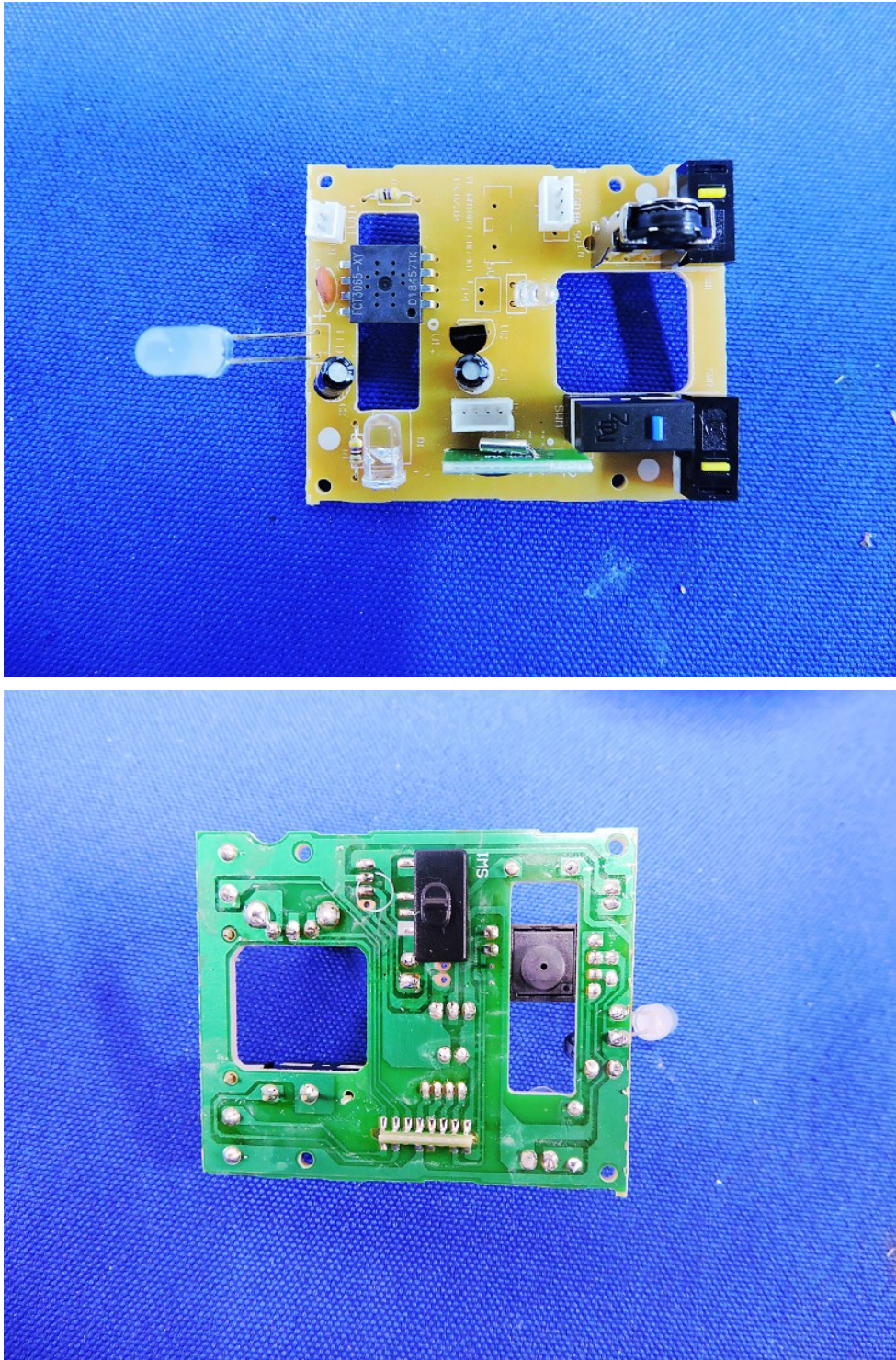
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Inside view-Mouse



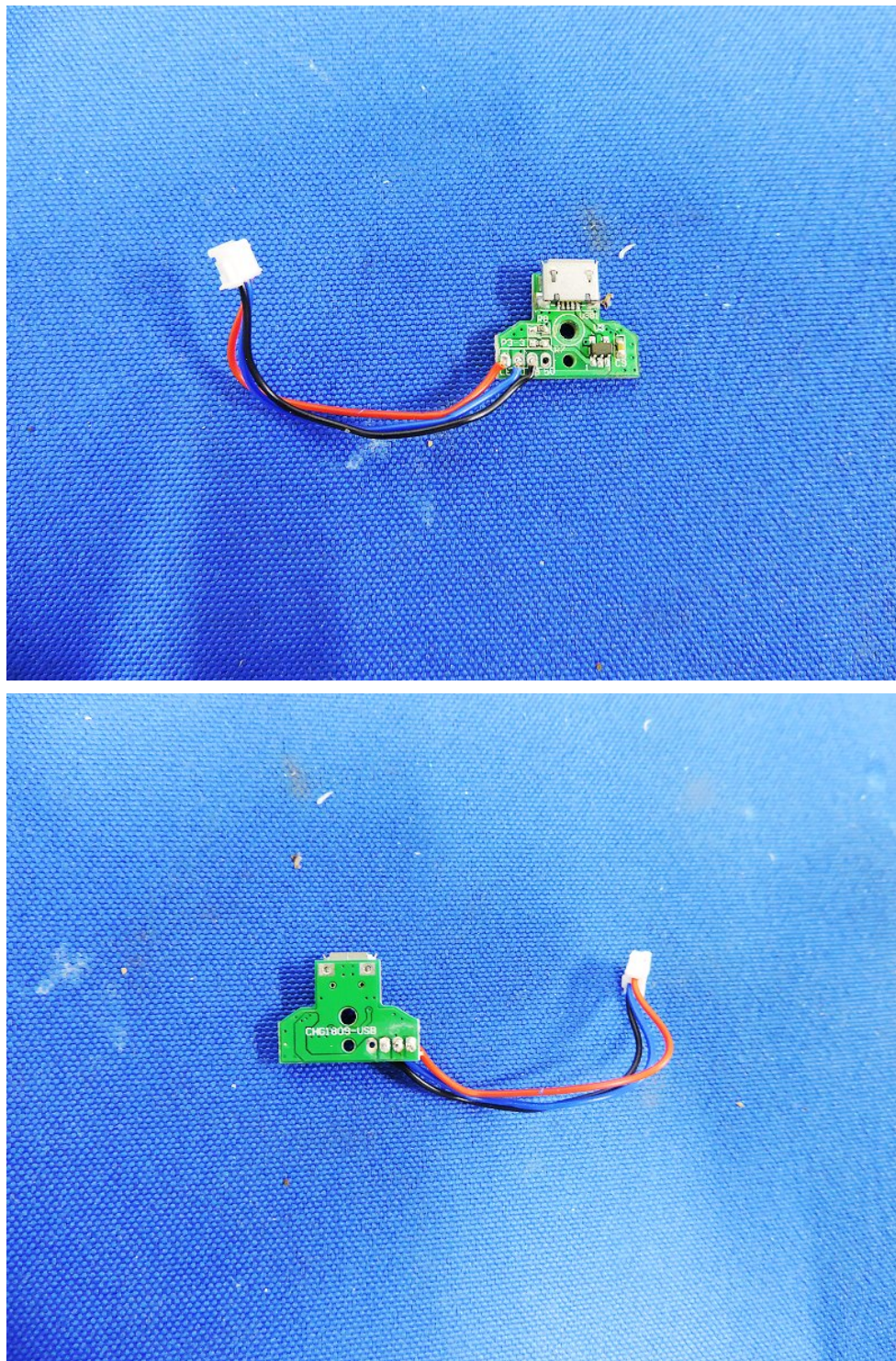
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Inside view-Mouse



--End of the report--

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