

FCC Test Report

Report No.: AGC00347190401FE02

FCC ID **2ABKUV838**

APPLICATION PURPOSE **Original Equipment**

PRODUCT DESIGNATION Wireless mouse

BRAND NAME

MODEL NAME V838

CLIENT Shenzhen Carpo Technology Co., Ltd

DATE OF ISSUE Apr. 30, 2019

STANDARD(S) FCC Part 15.247

REPORT VERSION

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Apr. 30, 2019	Valid	Initial Release

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1. VERIFICATION OF COMPLIANCE

Applicant	Shenzhen Carpo Technology Co., Ltd			
Address	Building A Hengbang Industrial park, Lou Village, Gongming Street GuangmingDist, Shenzhen, China			
Manufacturer	Shenzhen Carpo Technology Co., Ltd			
Address	Building A Hengbang Industrial park, Lou Village, Gongming Street GuangmingDist, Shenzhen, China			
Factory	Shenzhen Carpo Technology Co., Ltd			
Address	Building A Hengbang Industrial park, Lou Village, Gongming Street GuangmingDist, Shenzhen, China			
Product Designation	Wireless mouse			
Brand Name	N/A			
Test Model	V838			
Date of test	Apr. 11, 2019 to Apr.28, 2019			
Deviation	None of the state			
Condition of Test Sample	Normal			
Test Result	Pass			
Report Template	AGCRT-US-BLE/RF			

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Tested By	frik Joing	
	Erik Yang(Yang Jianmin)	Apr. 28, 2019
Reviewed By	Now Zhang	
	Max Zhang(Zhang Yi)	Apr. 30, 2019
Approved By	Forresto ce	
	Forrest Lei(Lei Yonggang) Authorized Officer	Apr. 30, 2019

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2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is designed as a "Wireless mouse". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

- Illin-	A COMMANDE C
Operation Frequency	2.405 GHz to 2.470GHz
RF Output Power	4.82dBm(Max)
Modulation	GFSK STATE OF THE
Number of channels	8 Channels
Antenna Designation	PCB Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	OdBi San
Hardware Version	V838-A-2.4G
Software Version	V1.0
Power Supply	DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
Seculiar of Colors © Miller Million of Co	60 10	2405MHz
	2	2413MHZ
报 报 ·	S 3 A Calculate O 4	2422MHz
2400 2492 FMUZ		2430MHz
2400~2483.5MHZ	5	2440MHz
()	6	2450MHz
Manufacture & Manufacture Comment	© The second of	2460MHZ
	8	2470MHZ

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2.3 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2ABKUV838** filing to comply with the FCC Part 15.247 requirements.

2.4TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION					
K Tompheres 1	Low channel TX					
© 2	Middle channel TX	Ce				
3	High channel TX					

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

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5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure :

EUT

Support

5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark	
A THE THE PARTY OF	Wireless mouse	V838	2ABKUV838	EUT	
2	PC	XIAOMI 161301-01	N/A GC	Support	
3	PC adapter	ADC65017M	DC5V/2A,9V/2A,12V/2A, 15V/3A,20V/3.25A, 65W Max	Support	

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 12, 2018	Jun. 11, 2019
LISN	R&S	ESH2-Z5	100086	Aug. 28, 2018	Aug. 27, 2019

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 12, 2018	Jun. 11, 2019
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2018	Jun. 11, 2019
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019

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7. PEAK OUTPUT POWER

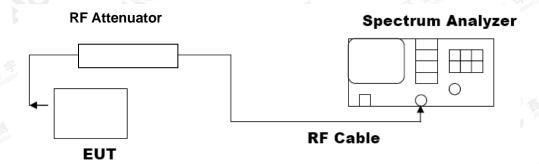
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

	PEAK OUTPUT POWER MEASUR		
Frequency (GHz)	FOR GFSK MOUDULA Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.405	4.40	30	Pass
2.430	4.41	30	Pass
2.470	4.82	30	Pass

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8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW ≥ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT					
Applicable Limits					
Applicable Limits	Test Data (Criteria			
>500KHZ	Low Channel	1415	PASS		
	Middle Channel	1369	PASS		
	High Channel	1511	PASS		

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT					
A marilla adalla di limita	Measurement Result				
Applicable Limits	Test Data	Criteria			
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS PASS			

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TEST RESULT FOR ENTIRE FREQUENCY RANGE



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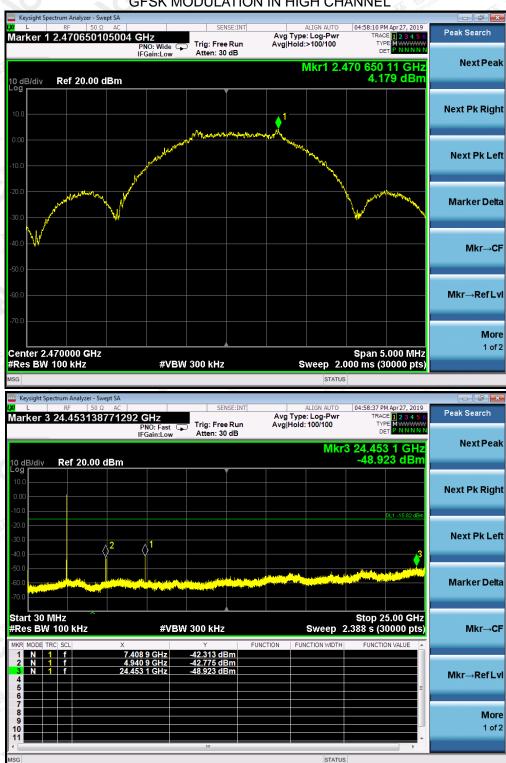
GFSK MODULATION IN MIDDLE CHANNEL



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GFSK MODULATION IN HIGH CHANNEL



Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

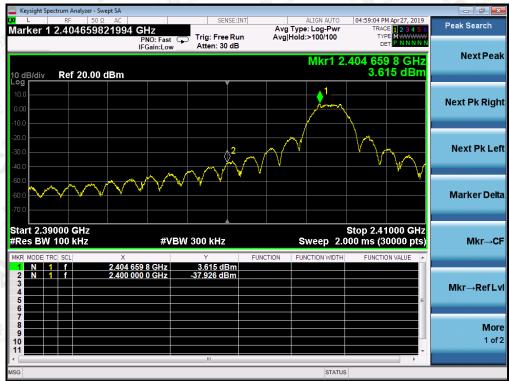
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TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-2.862	GO 8	Pass
Middle Channel	-2.688	8	Pass
High Channel	-3.036	8 7	Pass





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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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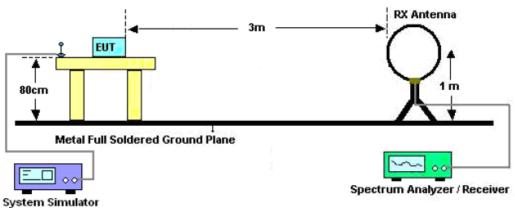
MGC 2



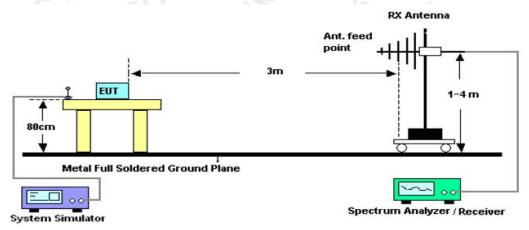
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11.2. TEST SETUP

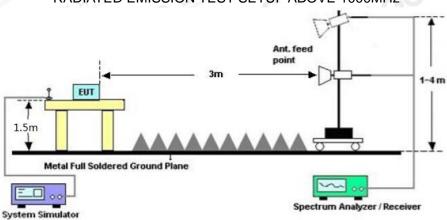
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)		
0.009~0.490	2400/F(KHz)	300		
0.490~1.705	24000/F(KHz)	30		
1.705~30.0	30	30		
30~88	100	3		
88~216	150	3		
216~960	200	® All Address 3		
Above 960	500	3		

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

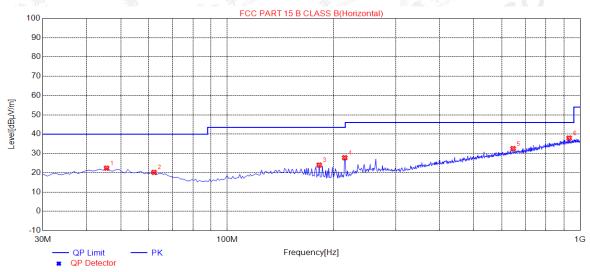
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RADIATED EMISSION BELOW 1GHZ

EUT	Wireless mouse	Model Name	V838
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	45.5200	22.36	14.80	40.00	17.64	150	233	Horizontal
2	62.0100	20.19	13.58	40.00	19.81	200	271	Horizontal
3	182.2900	23.97	12.88	43.50	19.53	150	165	Horizontal
4	215.2700	27.78	12.98	43.50	15.72	150	108	Horizontal
5	645.9500	32.50	25.07	46.00	13.50	150	341	Horizontal
6	931.1300	37.95	30.42	46.00	8.05	150	68	Horizontal

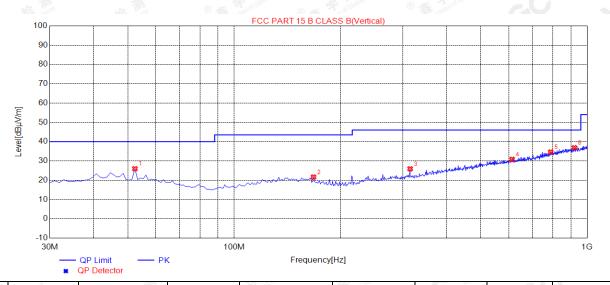
RESULT: PASS

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EUT	Wireless mouse	Model Name	V838
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



6	NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
	1	52.3100	25.96	14.49	40.00	14.04	100	357	Vertical
	2	167.7400	21.66	14.17	43.50	21.84	100	190	Vertical
Ī	3	315.1800	25.91	16.48	46.00	20.09	200	155	Vertical
	4	612.9700	30.82	24.51	46.00	15.18	100	348	Vertical
100	5	788.5400	34.62	28.20	46.00	11.38	150	37	Vertical
	6	920.4600	36.84	30.29	46.00	9.16	100	236	Vertical

RESULT: PASS

Note:

- 1. Factor=Antenna Factor + Cable loss, Margin= Limit-Level.
- 2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHZ

EUT	Wireless mouse	Model Name	V838
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tune
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4809.646	58.45	7.12	65.57	74	-8.43	peak
4809.646	40.36	7.12	47.48	54	-6.52	AVG
7214.469	57.34	9.84	67.18	74	-6.82	peak
7214.469	37.18	9.84	47.02	54	-6.98	AVG
Allestati	Allestation	Alles			and the same of th	litte:
				*		Ki Compliance

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT	Wireless mouse	Model Name	V838
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4809.646	57.29	7.12	64.41	74	-9.59	peak
4809.646	39.57	7.12	46.69	54	-7.31	AVG
7214.469	55.43	9.84	65.27	74	-8.73	peak
7214.469	34.43	9.84	44.27	54	-9.73	AVG
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Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

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EUT	Wireless mouse	Model Name	V838
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4860.206	56.38	7.12	63.5	74	-10.5	peak
4860.206	40.12	7.12	47.24	54	-6.76	AVG
7290.309	47.96	9.84	57.8	74	-16.2	peak
7290.309	36.49	9.84	46.33	54	-7.67	AVG
Allestation	Allestation	Allesto				litte:
	CO >			3,475		1/31 poliance

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	Wireless mouse	Model Name	V838
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency 🥋	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4860.206	54.46	7.12	61.58	74	-12.42	peak
4860.206	41.28	7.12	48.4	54	-5.6	AVG
7290.309	45.32	9.84	55.16	74	-18.84	peak
7290.309	33.48	9.84	43.32	54	-10.68	AVG
Compile.	Attestation of	Attestant				
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Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

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EUT	Wireless mouse	Model Name	V838
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4939.228	57.37	7.12	64.49	74	-9.51	peak
4939.228	39.44	7.12	46.56	54	-7.44	AVG
7408.842	48.48	9.84	58.32	74	-15.68	peak
7408.842	35.29	9.84	45.13	54	-8.87	AVG
Alfestallo	Allestation	Allesto				lline
	GU >			3/15		校 mplance

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT	Wireless mouse	Model Name	V838
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4939.228	56.18	7.12	63.30	74	-10.70	peak
4939.228	40.18	7.12	47.30	54	-6.70	AVG
7408.842	45.46	9.84	55.30	74	-18.70	peak
7408.842	32.72	9.84	42.56	54	-11.44	AVG
	AC STREET	0.0	3		31	
				1421 " " " " " " " " " " " " " " " " " " "	Kil nompliance	® 5 7

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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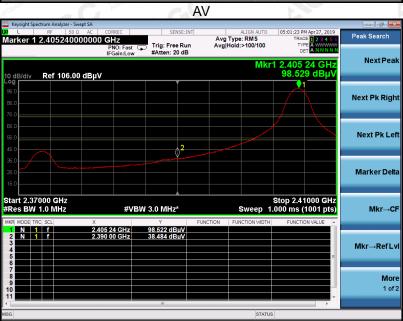
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TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	Wireless mouse	Model Name	V838
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal







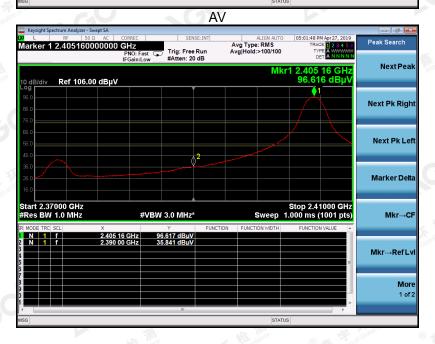
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EUT	Wireless mouse	Model Name	V838
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical





RESULT: PASS

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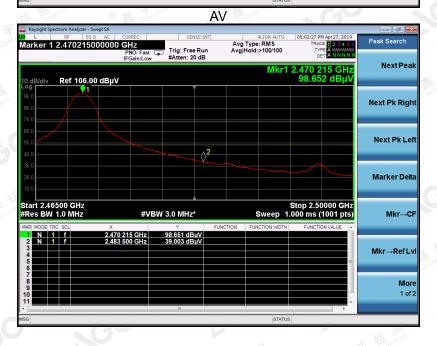
AGC 8



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EUT	Wireless mouse	Model Name	V838
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal





RESULT: PASS

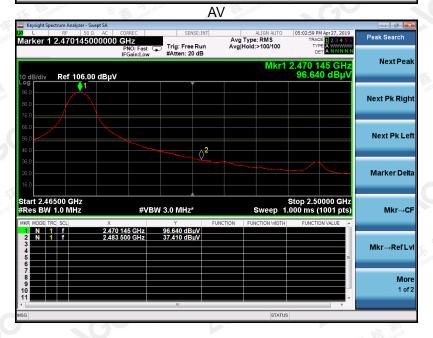
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EUT	Wireless mouse	Model Name	V838
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical





RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

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12. FCC LINE CONDUCTED EMISSION TEST

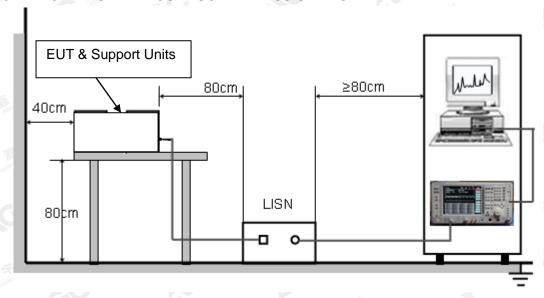
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francis	Maximum RF Line Voltage		
Frequency	Q.P.(dBuV)	Average(dBuV)	
150kHz~500kHz	66-56	56-46	
500kHz~5MHz	© 48 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	46	
5MHz~30MHz	60	50	

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by PC which received AC120V/60Hz power by a LISN..
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

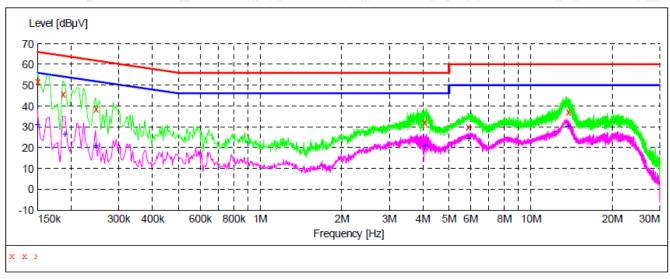
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	51.90	10.3	66	14.1	QP	L1
0.186000	45.70	10.3	64	18.5	QP	L1
0.246000	38.70	10.3	62	23.2	QP	L1
4.026000	32.30	10.4	56	23.7	QP	L1
5.878000	30.10	10.5	60	29.9	QP	L1
13.726000	37.10	10.8	60	22.9	QP	L1

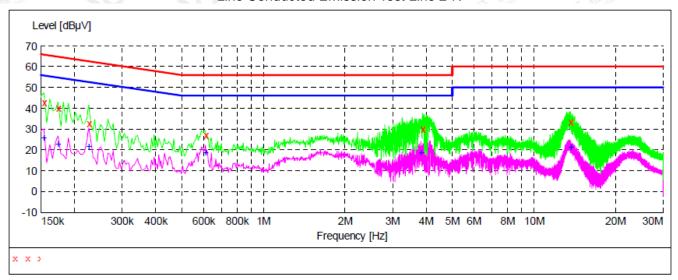
MEASUREMENT RESULT

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	31.30	10.3	56	24.7	AV	L1
0.190000	26.50	10.3	54	27.5	AV	L1
0.246000	21.10	10.3	52	30.8	AV	L1
4.062000	21.00	10.4	46	25.0	AV	L1
5.878000	24.30	10.5	50	25.7	AV	L1
13.726000	30.60	10.8	50	19.4	AV	L1

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.154000	42.80	10.3	66	23.0	QP	N
0.174000	40.40	10.3	65	24.4	QP	N
0.226000	32.70	10.3	63	29.9	QP	N
0.610000	27.10	10.3	56	28.9	QP	N
3.878000	29.90	10.4	56	26.1	QP	N
13.686000	33.50	10.8	60	26.5	QP	N

MEASUREMENT RESULT

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.154000	25.80	10.3	56	30.0	AV	N
0.174000	23.10	10.3	55	31.7	AV	N
0.226000	21.80	10.3	53	30.8	AV	N
0.610000	18.70	10.3	46	27.3	AV	N
3.822000	18.90	10.4	46	27.1	AV	N
13.686000	21.40	10.8	50	28.6	AV	N

RESULT: PASS

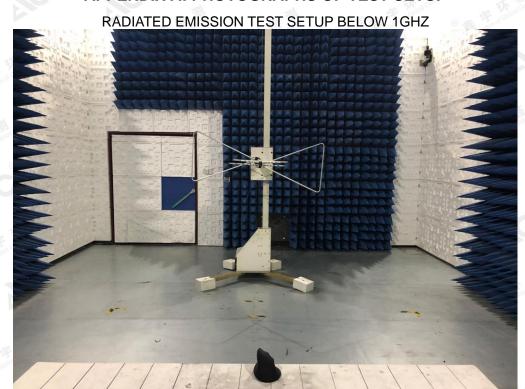
Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP





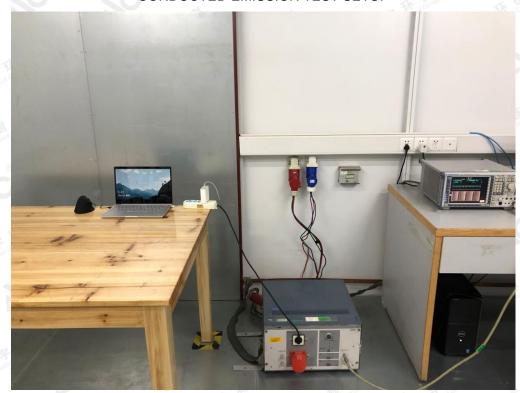
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CONDUCTED EMISSION TEST SETUP



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E-mail: agc@agc-cert.com

6 400 089 2118

Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



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APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT

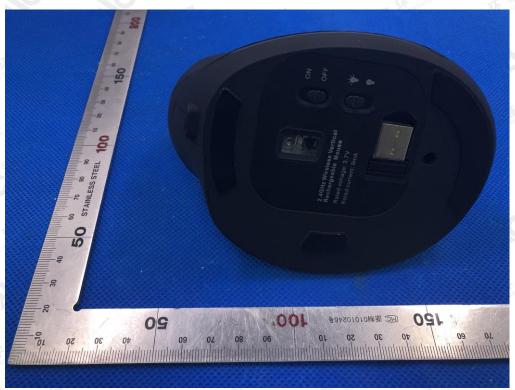


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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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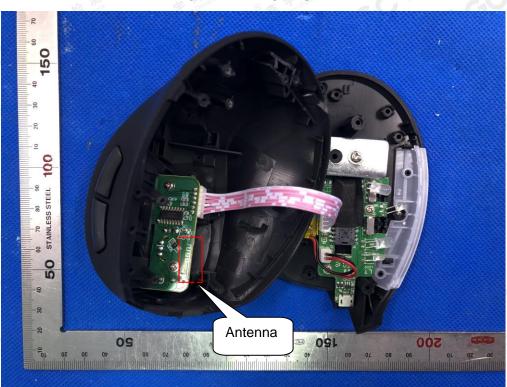
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RIGHT VIEW OF EUT



OPEN VIEW OF EUT



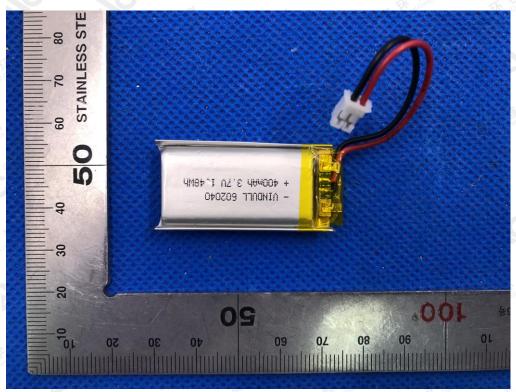
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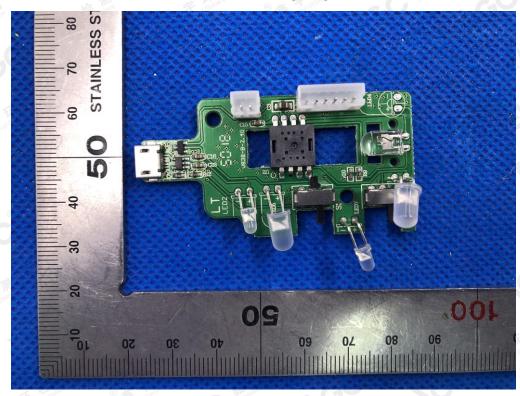
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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1



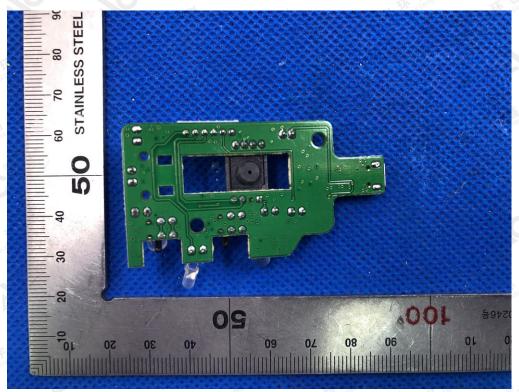
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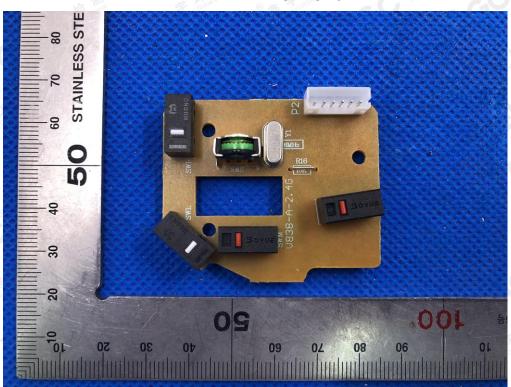
Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com @ 400 089 2118 Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China



INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



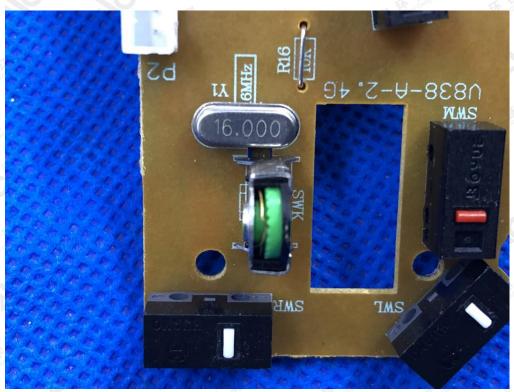
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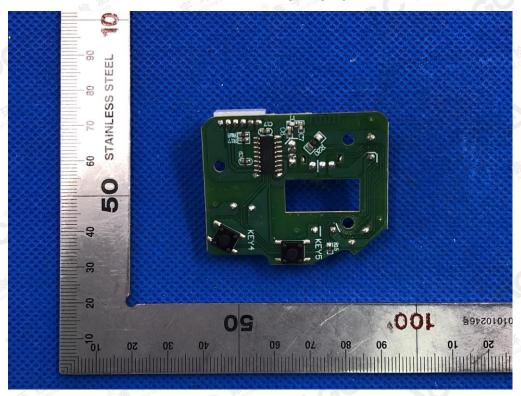
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INTERNAL VIEW OF EUT-4



INTERNAL VIEW OF EUT-5



----END OF REPORT----

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