

TECHNICAL REPORT



Report No.: FCC1905092
File reference No.: 2019-05-27

Applicant: Shenzhen Star Sources Electronic Technology Co., Ltd.

Product: Wireless Mouse

Model No.: BRM2030B

Brand Name: brookstone

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: May 27, 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.



Test Report Conclusion
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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: Shenzhen Star Sources Electronic Technology Co., Ltd.
Address: Room1102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District, Shenzhen, China
Telephone: 0755 -86397260
Fax: 0755-26609516

1.3 Description of EUT

Product: Wireless Mouse
Manufacturer: Shenzhen Star Sources Electronic Technology Co., Ltd.
Address: Room1102, Block 1st, Yi Luan Building, Xixiang Road 230, BaoAn District, Shenzhen, China
Brand Name: brookstone
Model Number: BRM2030B
Additional Model Name N/A
Input Voltage: DC3.7V, Li-ion battery
Modulation Type: GFSK
Operation Frequency 2402-2480MHz
Channel Separation 2MHz
Antenna Designation PCB antenna with gain 0dBi Max
Hardware Version: V1.1
Software Version: V2.2

1.4 Submitted Sample 2 Sample

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1.5 Test Duration

2019-05-20 to 2019-05-27

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

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 | 2018-06-22 | 2019-06-21 |
| Ultra Broadband ANT | R&S | HL562 | 100157 | 2018-06-18 | 2019-06-17 |
| Loop Antenna | EMCO | 6507 | 00078608 | 2018-06-25 | 2019-06-24 |
| Spectrum | R&S | FSIQ26 | 100292 | 2018-06-22 | 2019-06-21 |
| Horn Antenna | A-INFO | LB-180400-KF | J211060660 | 2018-06-25 | 2019-06-24 |
| Horn Antenna | R&S | BBHA 9120D | 9120D-631 | 2018-08-24 | 2019-08-23 |
| Bilog Antenna | Schwarebeck | VULB9163 | 9163/340 | 2018-07-04 | 2019-07-03 |
| 9*6*6 Anechoic | -- | -- | N/A | 2018-02-07 | 2021-02-06 |
| Spectrum | HP/Agilent | ESA-L1500A | US37451154 | 2018-06-22 | 2019-06-21 |
| Spectrum | RS | FSP | 1164.4391.38 | 2019-01-18 | 2020-01-17 |
| RF Cable | Zhengdi | ZT26-NJ-NJ-8 M/FA | -- | 2018-05-23 | 2020-05-22 |
| RF Cable | Zhengdi | 7m | -- | 2019-03-08 | 2020-03-07 |
| RF Switch | EM | EMSW18 | 060391 | 2018-06-22 | 2019-06-21 |
| Pre-Amplifier | Schwarebeck | BBV9743 | #218 | 2018-06-22 | 2019-06-21 |
| Pre-Amplifier | HP/Agilent | 8449B | 3008A00160 | 2018-08-05 | 2019-08-04 |
| 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 | 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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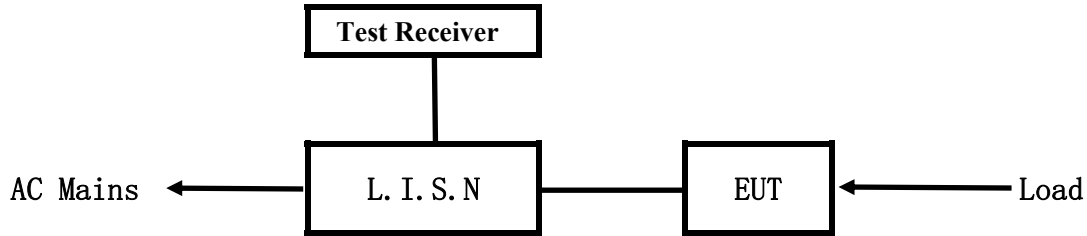
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

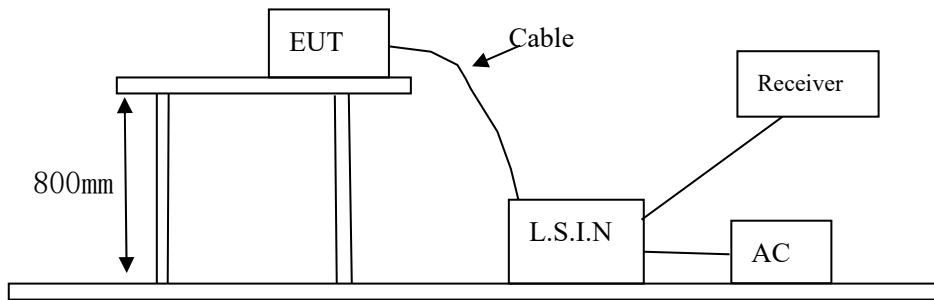


EUT: Equipment Under Test

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.

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 Mouse | Shenzhen Star Sources Electronic Technology Co., Ltd. | BRM2030B | ZJEST-892 |

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B. Internal Device

| Device | Manufacturer | Model | FCC ID/DOC |
|--------|--------------|-------|------------|
| N/A | | | |

C. Peripherals

| Device | Manufacturer | Model | Rating |
|--------------|--------------|----------------|--|
| Power Supply | h.TV | S012BES0500200 | Input: 100-240V~, 50/60Hz, 0.5A; 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

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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

EUT Operating Environment

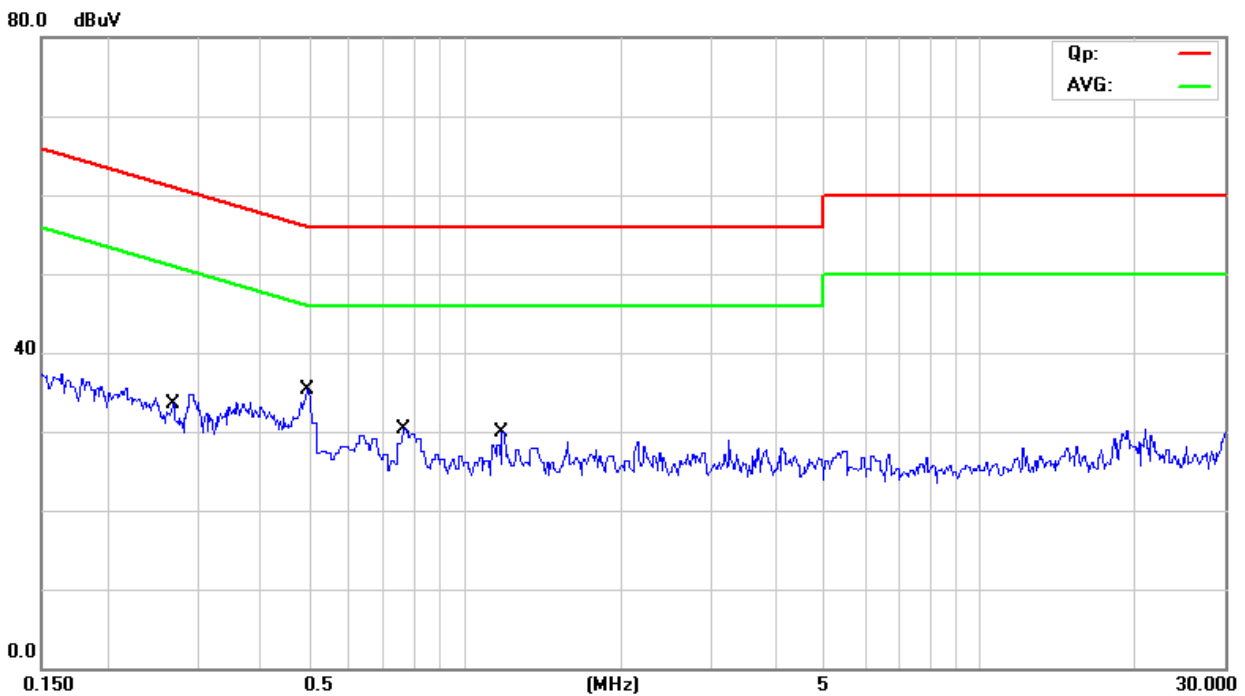
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Transmitting

Equipment Level: Class B

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 | | 0.2700 | 10.20 | 9.75 | 19.95 | 61.12 | -41.17 | QP | |
| 2 | | 0.2700 | -17.70 | 9.75 | -7.95 | 51.12 | -59.07 | AVG | |
| 3 | * | 0.4931 | 20.50 | 9.77 | 30.27 | 56.12 | -25.85 | QP | |
| 4 | | 0.4931 | -5.40 | 9.77 | 4.37 | 46.12 | -41.75 | AVG | |
| 5 | | 0.7652 | 1.30 | 9.78 | 11.08 | 56.00 | -44.92 | QP | |
| 6 | | 0.7652 | -27.10 | 9.78 | -17.32 | 46.00 | -63.32 | AVG | |
| 7 | | 1.1828 | 5.50 | 9.79 | 15.29 | 56.00 | -40.71 | QP | |
| 8 | | 1.1828 | -16.30 | 9.79 | -6.51 | 46.00 | -52.51 | AVG | |

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

EUT Operating Environment

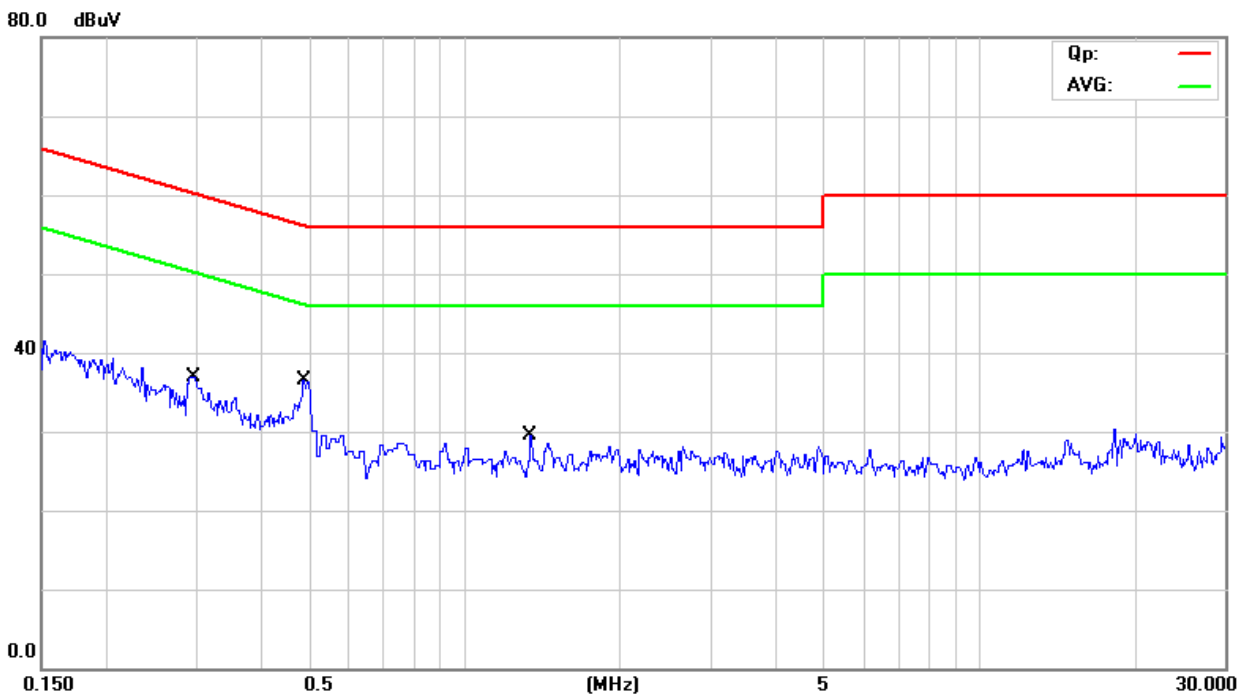
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Transmitting

Equipment Level: Class B

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 | * | 0.2950 | 25.50 | 9.76 | 35.26 | 60.38 | -25.12 | QP | |
| 2 | | 0.2950 | -14.10 | 9.76 | -4.34 | 50.38 | -54.72 | AVG | |
| 3 | | 0.4855 | 18.30 | 9.77 | 28.07 | 56.24 | -28.17 | QP | |
| 4 | | 0.4855 | -4.90 | 9.77 | 4.87 | 46.24 | -41.37 | AVG | |
| 5 | | 1.3424 | 4.20 | 9.79 | 13.99 | 56.00 | -42.01 | QP | |
| 6 | | 1.3424 | -19.90 | 9.79 | -10.11 | 46.00 | -56.11 | AVG | |

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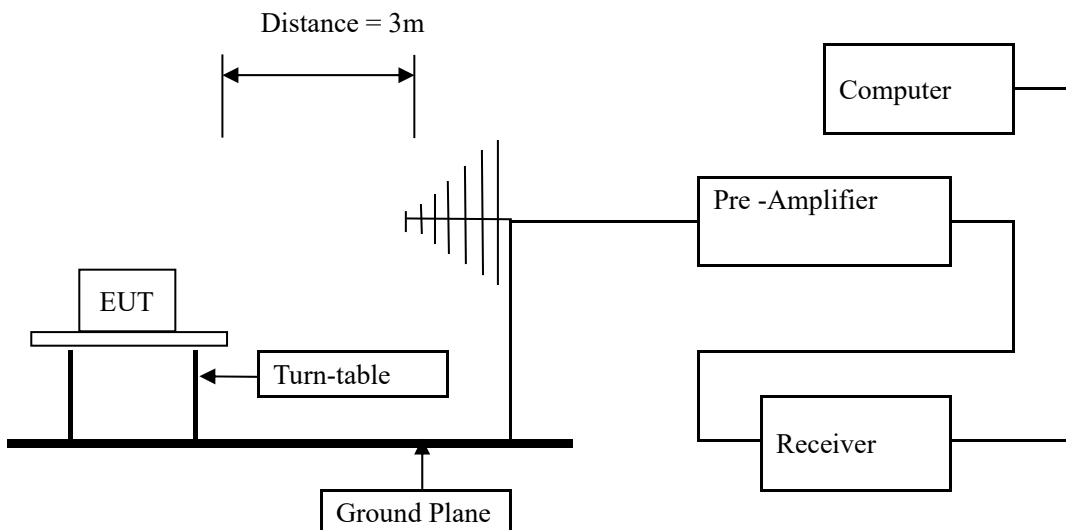


6 Radiated Emission Test

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 full charged were used during tests.

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6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

| | | | |
|---------------|------------------------------------|--------------|-------------------------------|
| Product: | Wireless Mouse | Test Mode: | Keep transmitting-Low Channel |
| Test Item: | Fundamental Radiated Emission Data | Temperature: | 25°C |
| Test Voltage: | DC3.7V | Humidity: | 56% |
| Test Result: | Pass | | |

| Frequency (MHz) | Emission PK/AV (dBuV/m) | Horiz / Vert | Limits PK/AV (dBuV/m) | Margin (dB) |
|-----------------|-------------------------|--------------|-----------------------|---------------|
| 2402 | 73.71(PK) | H | 114/94 | -20.29 |
| 2402 | 67.83(PK) | V | 114/94 | -26.17 |
| 4804 | 48.75(PK) | H | 74/54 | -5.25 |
| 4804 | 54.82(PK)/35.16(AV) | V | 74/54 | -19.18/-18.84 |
| 7206 | -- | H/V | 74/54 | -- |
| 9608 | -- | H/V | 74/54 | -- |
| 12010 | -- | H/V | 74/54 | -- |
| 14412 | -- | H/V | 74/54 | -- |
| 16814 | -- | H/V | 74/54 | -- |
| 19216 | -- | H/V | 74/54 | -- |
| 21618 | -- | H/V | 74/54 | -- |
| 24020 | -- | H/V | 74/54 | -- |

- Note:
- (1) PK= Peak, AV= Average
 - (2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
 - (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

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| | | | |
|---------------|------------------------------------|--------------|----------------------------------|
| Product: | Wireless Mouse | Test Mode: | Keep transmitting-Middle Channel |
| Test Item: | Fundamental Radiated Emission Data | Temperature: | 25°C |
| Test Voltage: | DC3.7V | Humidity: | 56% |
| Test Result: | Pass | | |

| Frequency (MHz) | Emission PK/AV (dBuV/m) | Horiz / Vert | Limits PK/AV (dBuV/m) | Margin (dB) |
|-----------------|-------------------------|--------------|-----------------------|---------------|
| 2440 | 71.09(PK) | H | 114/94 | -22.91 |
| 2440 | 67.76(PK) | V | 114/94 | -26.24 |
| 4880 | 47.92(PK) | H | 74/54 | -6.08 |
| 4880 | 54.84(PK)/35.22(AV) | V | 74/54 | -19.16/-18.78 |
| 7320 | -- | H/V | 74/54 | -- |
| 9760 | -- | H/V | 74/54 | -- |
| 12200 | -- | H/V | 74/54 | -- |
| 14640 | -- | H/V | 74/54 | -- |
| 17080 | -- | H/V | 74/54 | -- |
| 19520 | -- | H/V | 74/54 | -- |
| 21960 | -- | H/V | 74/54 | -- |
| 24400 | -- | H/V | 74/54 | -- |

- Note:
- (1) PK= Peak, AV= Average
 - (2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
 - (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

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| | | | |
|---------------|------------------------------------|--------------|--------------------------------|
| Product: | Wireless Mouse | Test Mode: | Keep transmitting-High Channel |
| Test Item: | Fundamental Radiated Emission Data | Temperature: | 25°C |
| Test Voltage: | DC3.7V | Humidity: | 56% |
| Test Result: | Pass | | |

| Frequency (MHz) | Emission PK/AV (dBuV/m) | Horiz / Vert | Limits PK/AV (dBuV/m) | Margin (dB) |
|-----------------|-------------------------|--------------|-----------------------|---------------|
| 2480 | 75.26(PK) | H | 114/94 | -18.74 |
| 2480 | 68.32(PK) | V | 114/94 | -25.68 |
| 4960 | 47.81(PK) | H | 74/54 | -6.19 |
| 4960 | 54.11(PK)/34.89(AV) | V | 74/54 | -19.89/-19.11 |
| 7440 | -- | H/V | 74/54 | -- |
| 9920 | -- | H/V | 74/54 | -- |
| 12400 | -- | H/V | 74/54 | -- |
| 14880 | -- | H/V | 74/54 | -- |
| 17360 | -- | H/V | 74/54 | -- |
| 19840 | -- | H/V | 74/54 | -- |
| 22320 | -- | H/V | 74/54 | -- |
| 24800 | -- | H/V | 74/54 | -- |

- Note:
- (1) PK= Peak, AV= Average
 - (2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
 - (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

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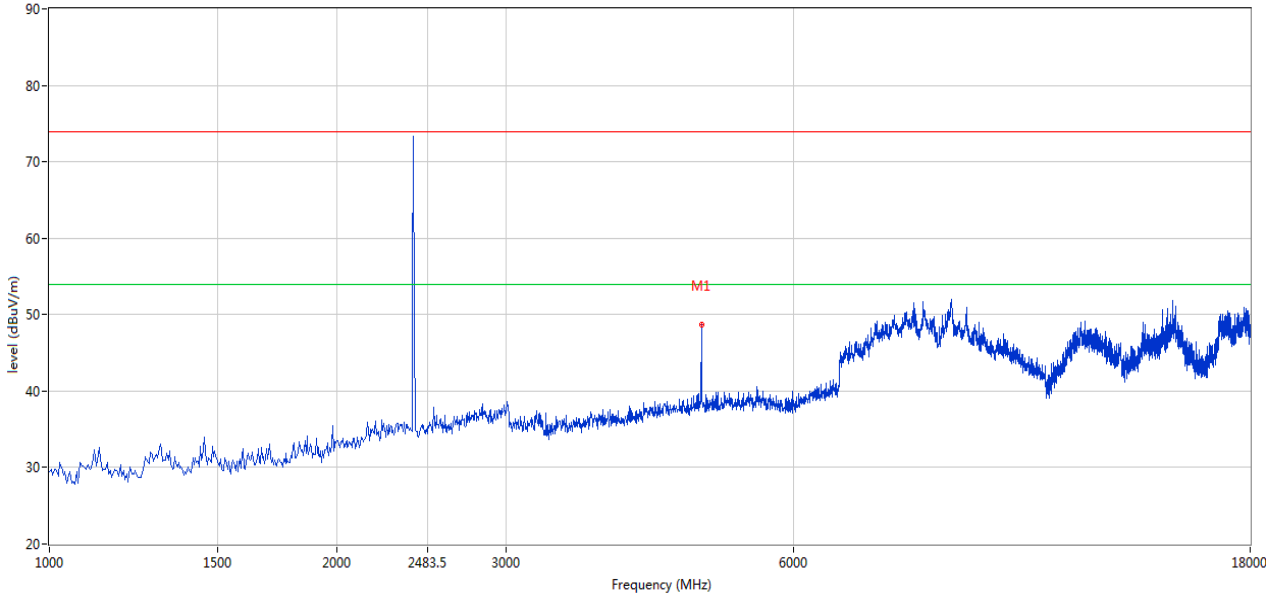
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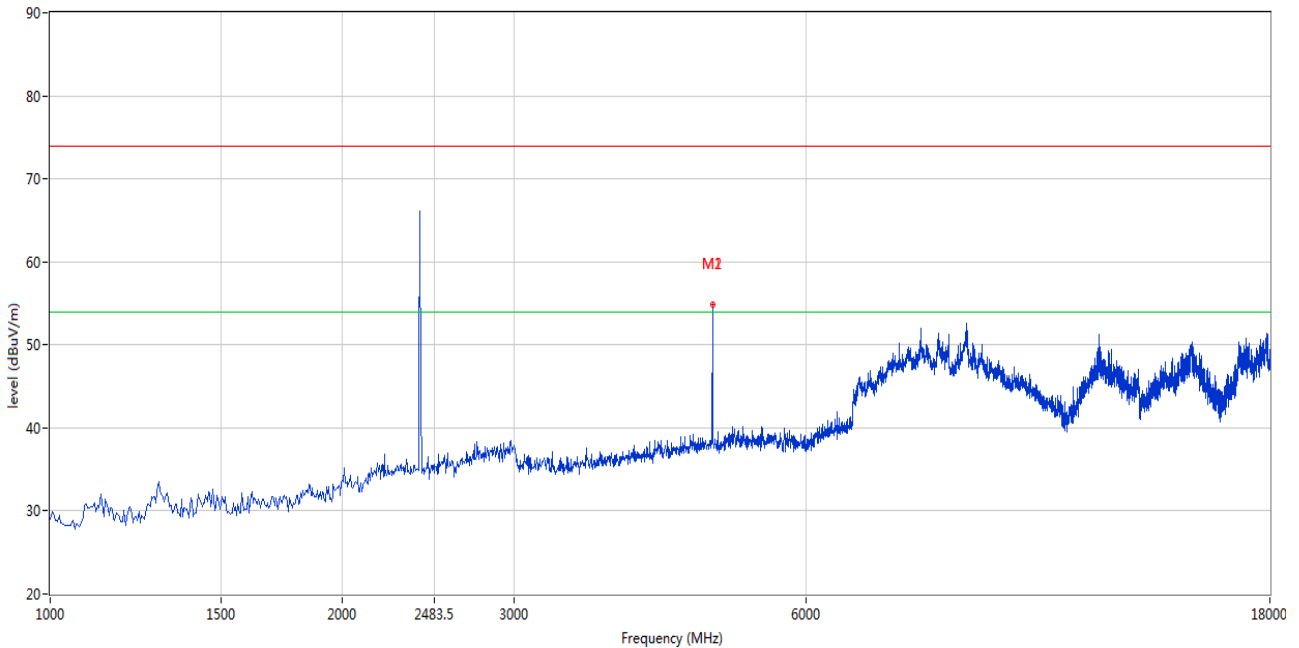
Please refer to the following test plots for details: Low Channel
Horizontal

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



Vertical

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



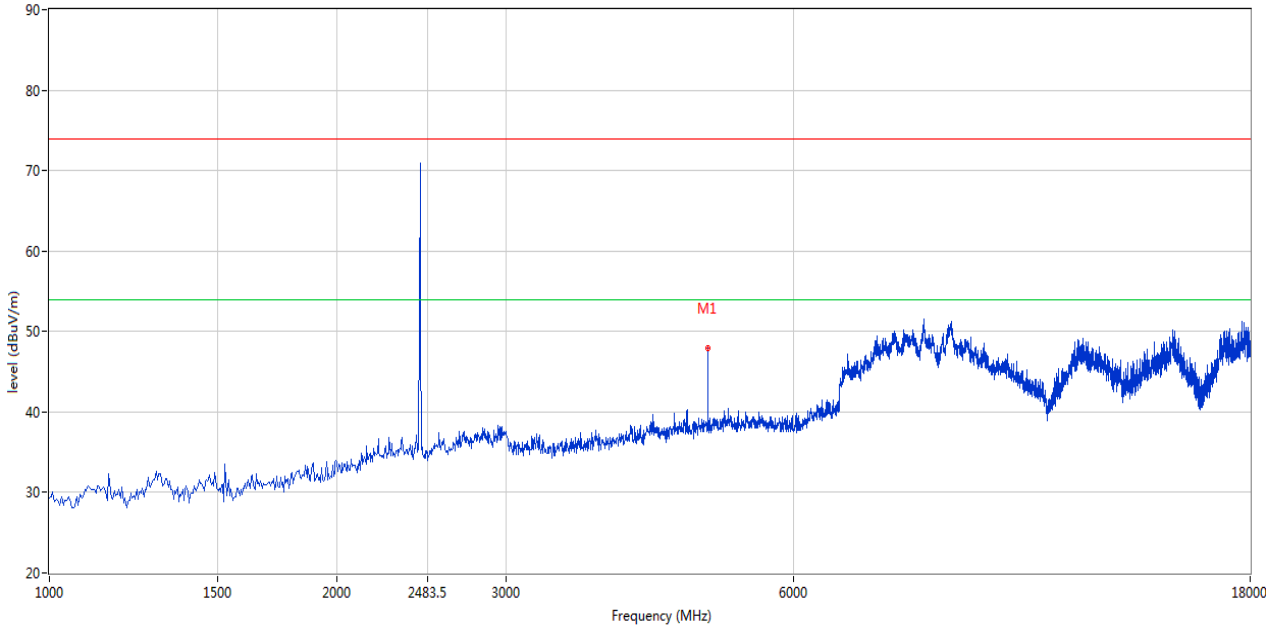
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Please refer to the following test plots for details: Middle Channel

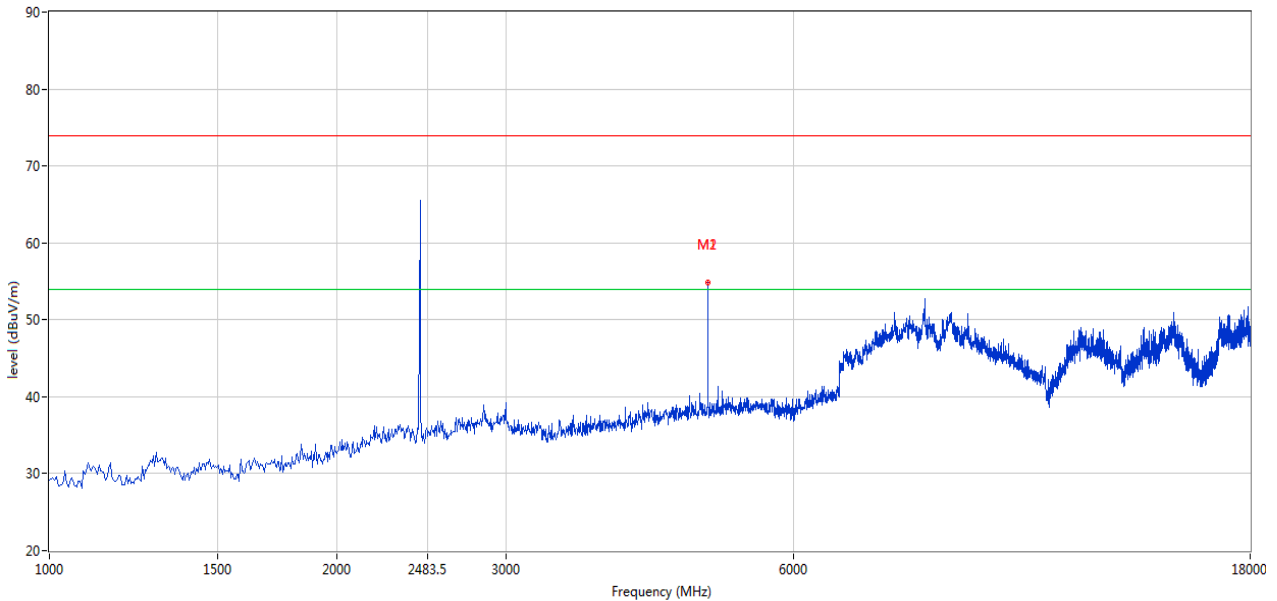
Horizontal

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Vertical

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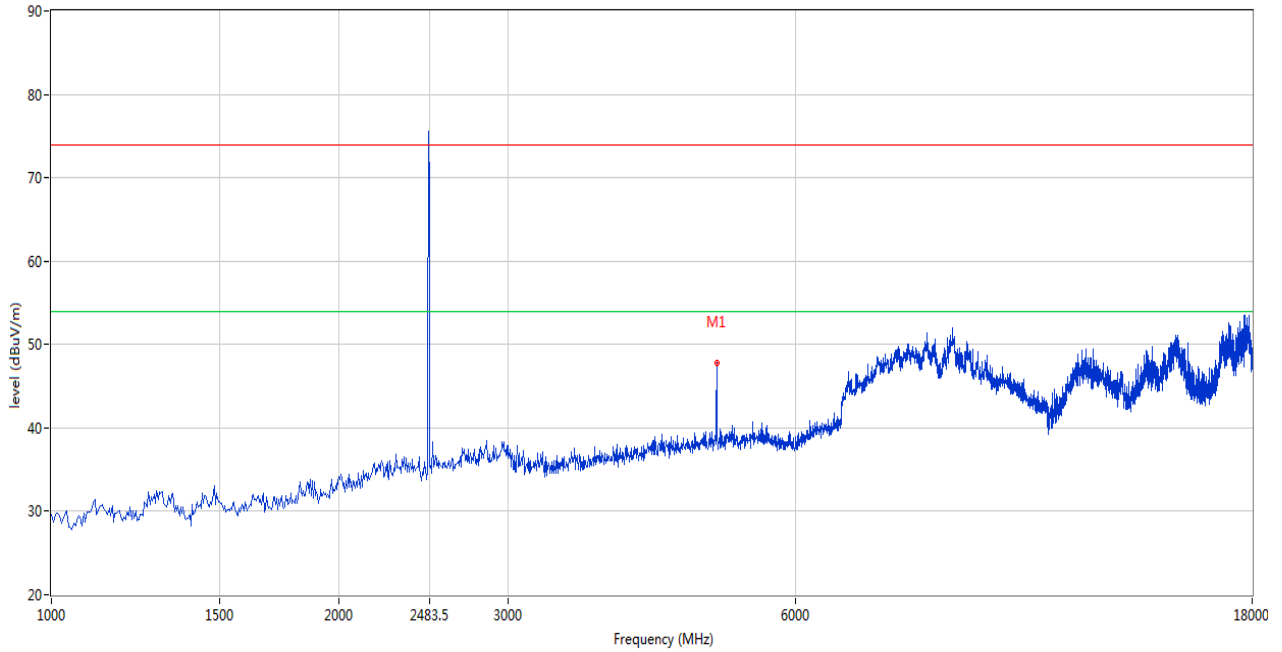
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Please refer to the following test plots for details: High Channel

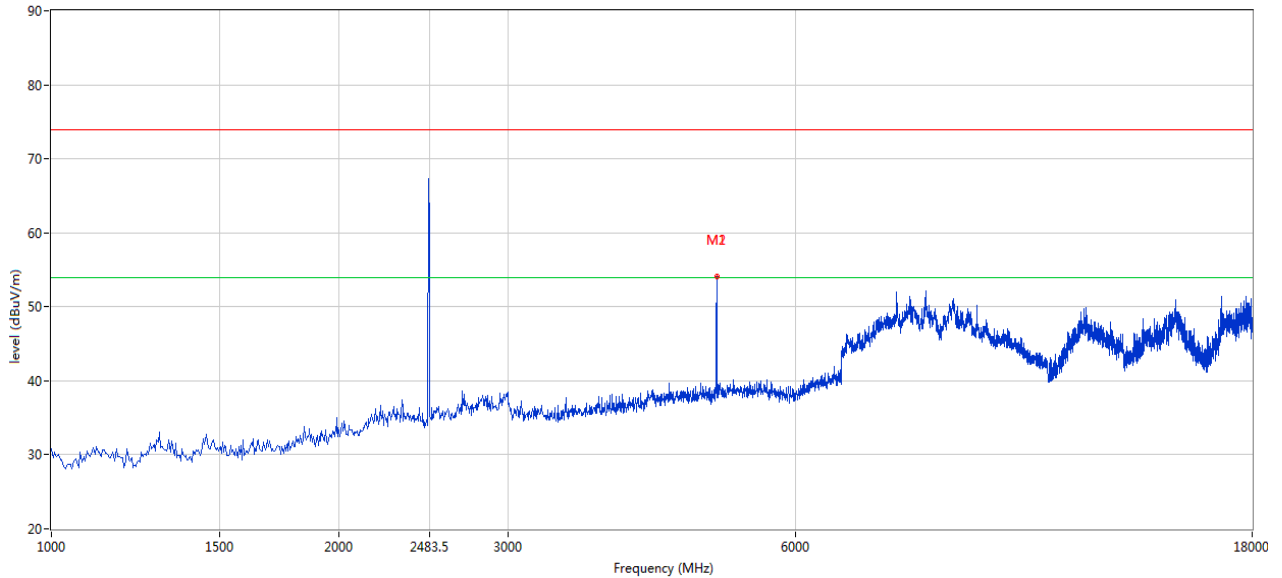
Horizontal

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Vertical

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For emission above 18GHz, It is only the floor noise. No necessary to take down.

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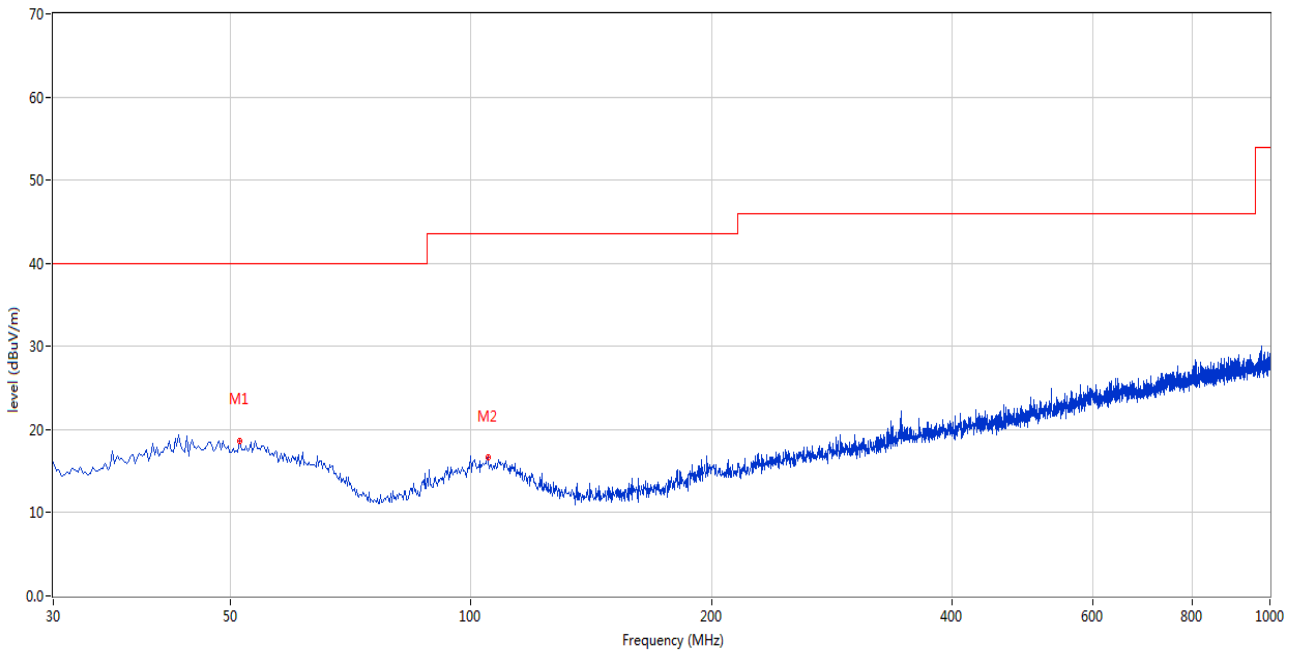
B. General Radiated Emission Data
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Tx 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 | 51.335 | 18.67 | -11.41 | 40.0 | -21.33 | Peak | 360.00 | 200 | H | Pass |
| 2 | 104.914 | 16.67 | -13.23 | 43.5 | -26.83 | Peak | 360.00 | 200 | H | Pass |

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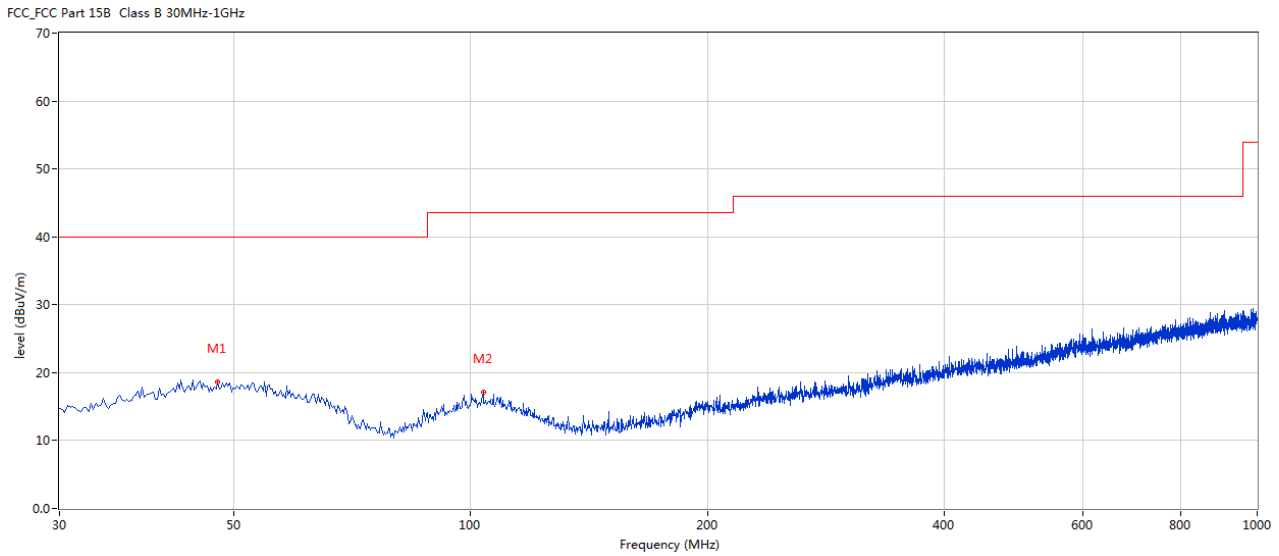


Radiated Emission In Vertical (30MHz----1000MHz)

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 | 47.698 | 18.56 | -11.34 | 40.0 | -21.44 | Peak | 155.00 | 200 | V | Pass |
| 2 | 103.702 | 17.12 | -13.35 | 43.5 | -26.38 | Peak | 360.00 | 200 | V | Pass |

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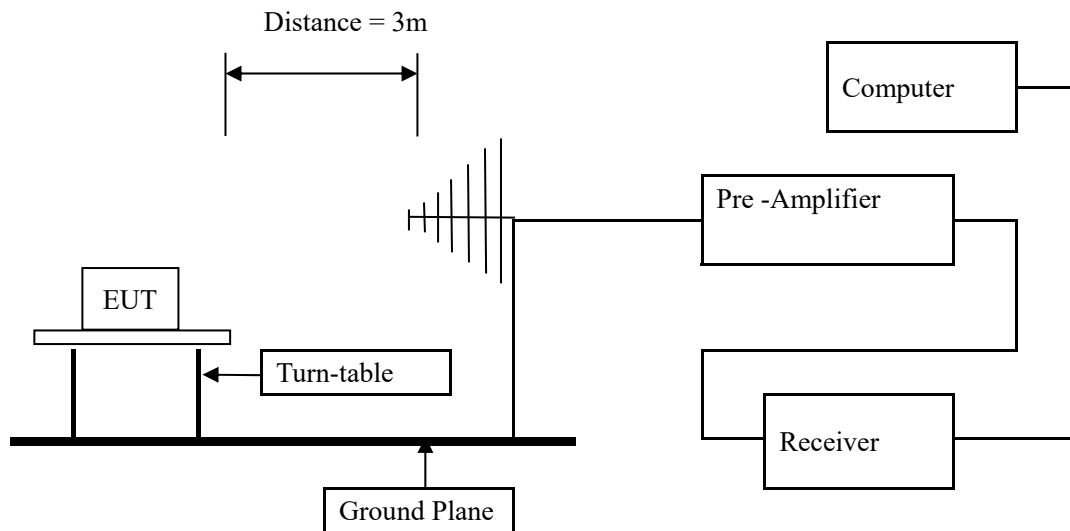


7. Band Edge

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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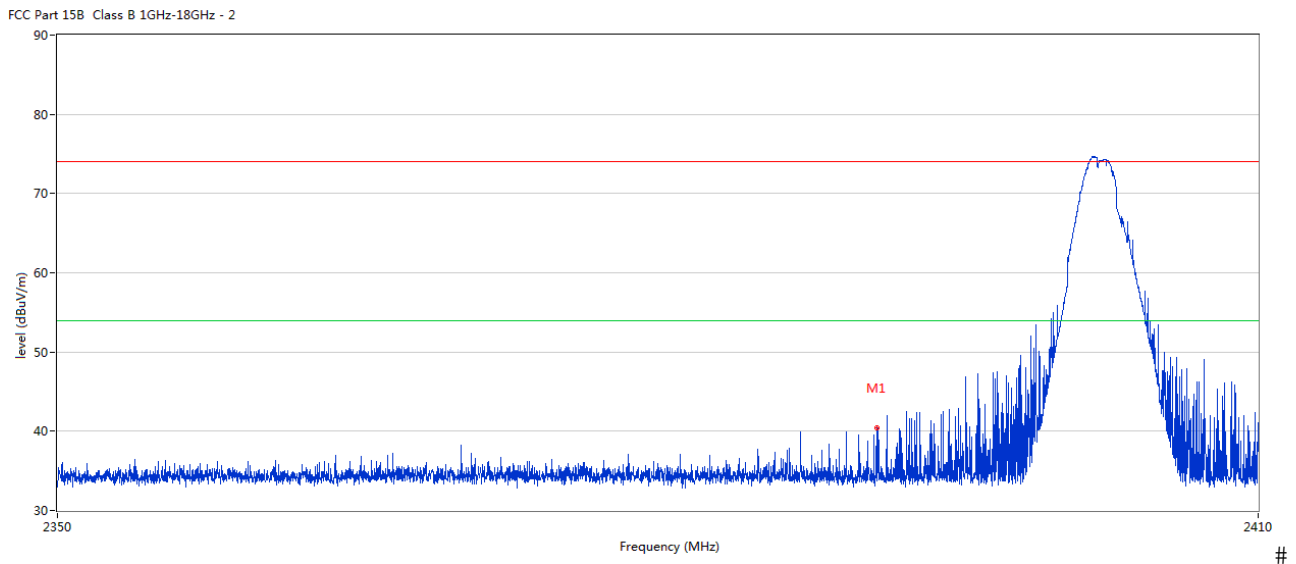
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7.6 Test Result

| | | | | |
|--------------|----------------------|-------|--------------|------------|
| Product: | Wireless Mouse | | Polarity | Horizontal |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | -- | -- |
| 2400MHz | PK (dBμV/m) | 46.13 | Limit | 74 dBμV/m |
| 2400MHz | AV (dBμV/m) | -- | Limit | 54 dBμV/m |
| 2390 MHz | PK (dBμV/m) | 40.37 | Limit | 74 dBμV/m |
| 2390 MHz | AV (dBμV/m) | -- | Limit | 54 dBμV/m |



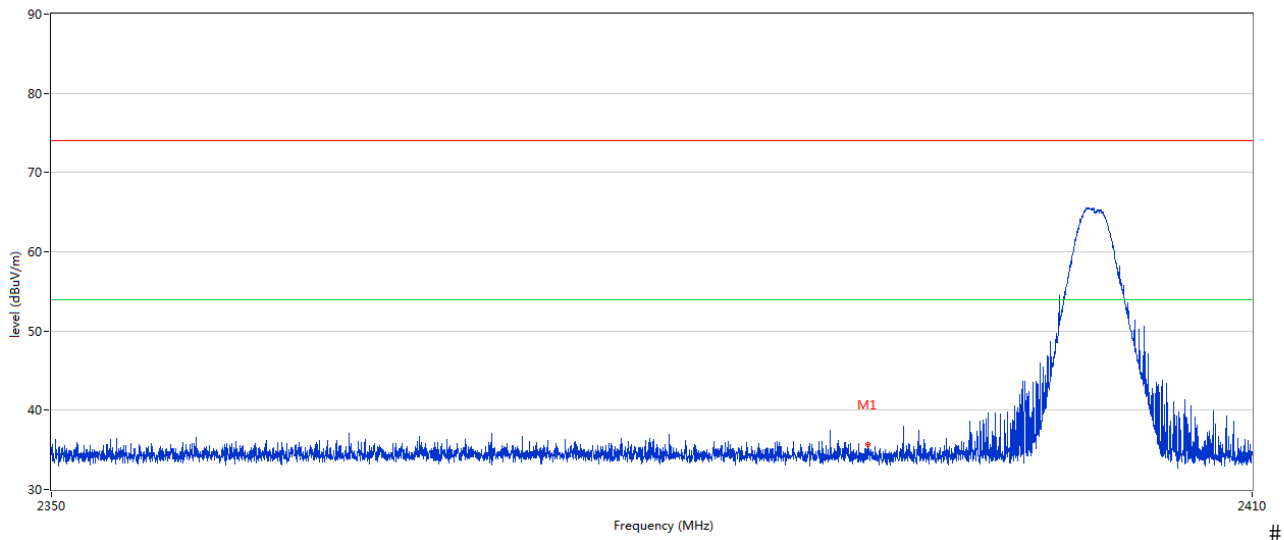
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 2390 | 40.37 | -3.53 | 74.0 | -33.63 | Peak | 94.00 | 100 | H | Pass |
| 2 | 2400 | 46.13 | -3.53 | 74.0 | -27.87 | Peak | 94.00 | 100 | H | Pass |

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| | | | | |
|--------------|----------------------|-------|--------------|-----------|
| Product: | Wireless Mouse | | Detector | Vertical |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | -- | -- |
| 2400MHz | PK (dBμV/m) | 39.72 | Limit | 74 dBμV/m |
| 2400MHz | AV (dBμV/m) | -- | Limit | 54 dBμV/m |
| 2390 MHz | PK (dBμV/m) | 35.65 | Limit | 74 dBμV/m |
| 2390 MHz | AV (dBμV/m) | -- | Limit | 54 dBμV/m |

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| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Over Limit (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-----------------|----------|-----------|-------------|-----|---------|
| 1 | 2390 | 35.65 | -3.53 | 74.0 | -38.35 | Peak | 18.00 | 100 | V | Pass |
| 2 | 2400 | 39.72 | -3.53 | 74.0 | -34.28 | Peak | 18.00 | 100 | V | Pass |

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

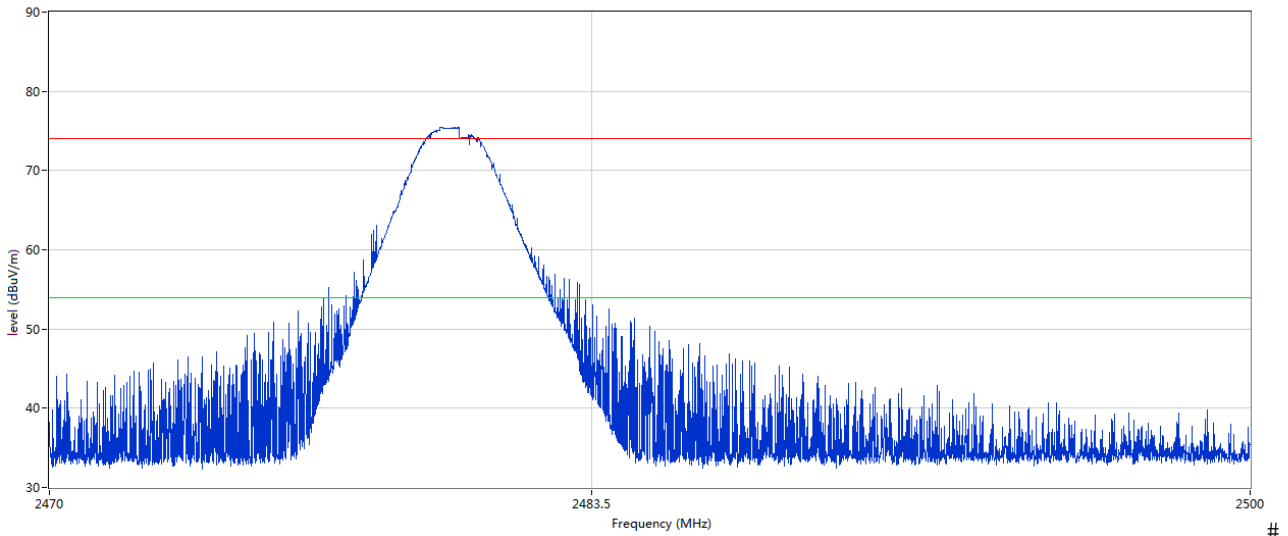
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| | | | | |
|--------------|----------------------|-------|--------------|-----------------|
| Product: | Wireless Mouse | | Polarity | Horizontal |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | -- | -- |
| 2483.5MHz | PK (dB μ V/m) | 52.89 | Limit | 74 dB μ V/m |
| 2483.5MHz | AV (dB μ V/m) | -- | Limit | 54 dB μ V/m |

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 | 2483.5 | 52.89 | -3.57 | 74.0 | -21.11 | Peak | 118.00 | 100 | H | Pass |
| 2 | 2483.5 | 35.68 | -3.57 | 54.0 | -18.32 | AV | 118.00 | 100 | H | Pass |

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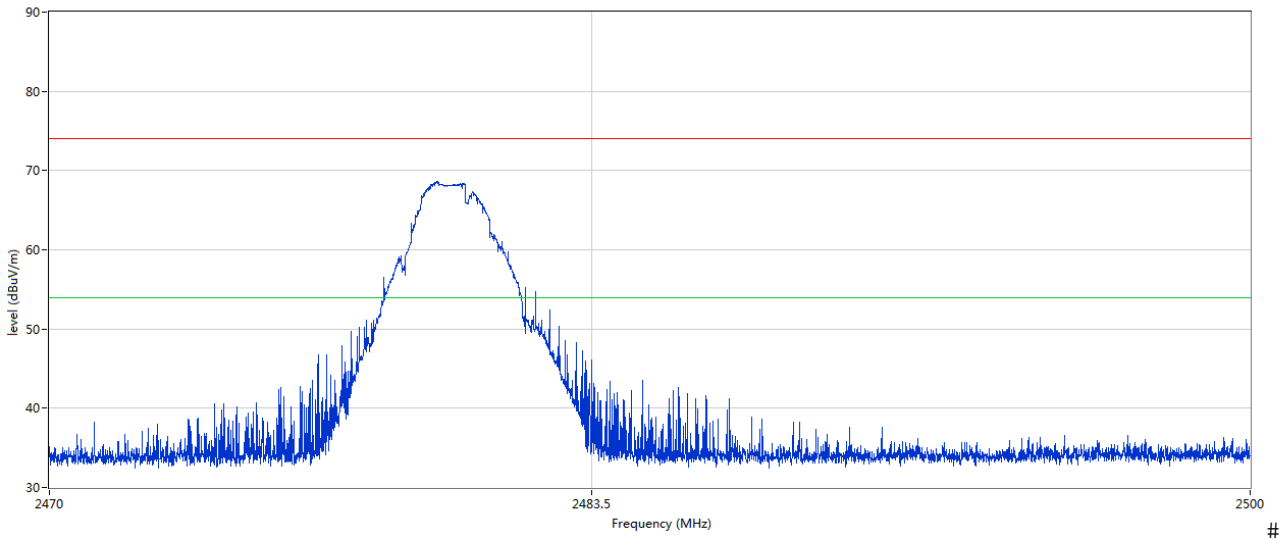
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| | | | | |
|--------------|----------------------|-------|--------------|-----------------|
| Product: | Wireless Mouse | | Detector | Vertical |
| Mode | Keeping Transmitting | | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | | Humidity | 56% RH |
| Test Result: | Pass | | -- | -- |
| 2483.5MHz | PK (dB μ V/m) | 48.23 | Limit | 74 dB μ V/m |
| 2483.5MHz | AV (dB μ V/m) | -- | Limit | 54 dB μ V/m |

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 | 2483.5 | 48.23 | -3.57 | 74.0 | -25.77 | Peak | 276.00 | 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.

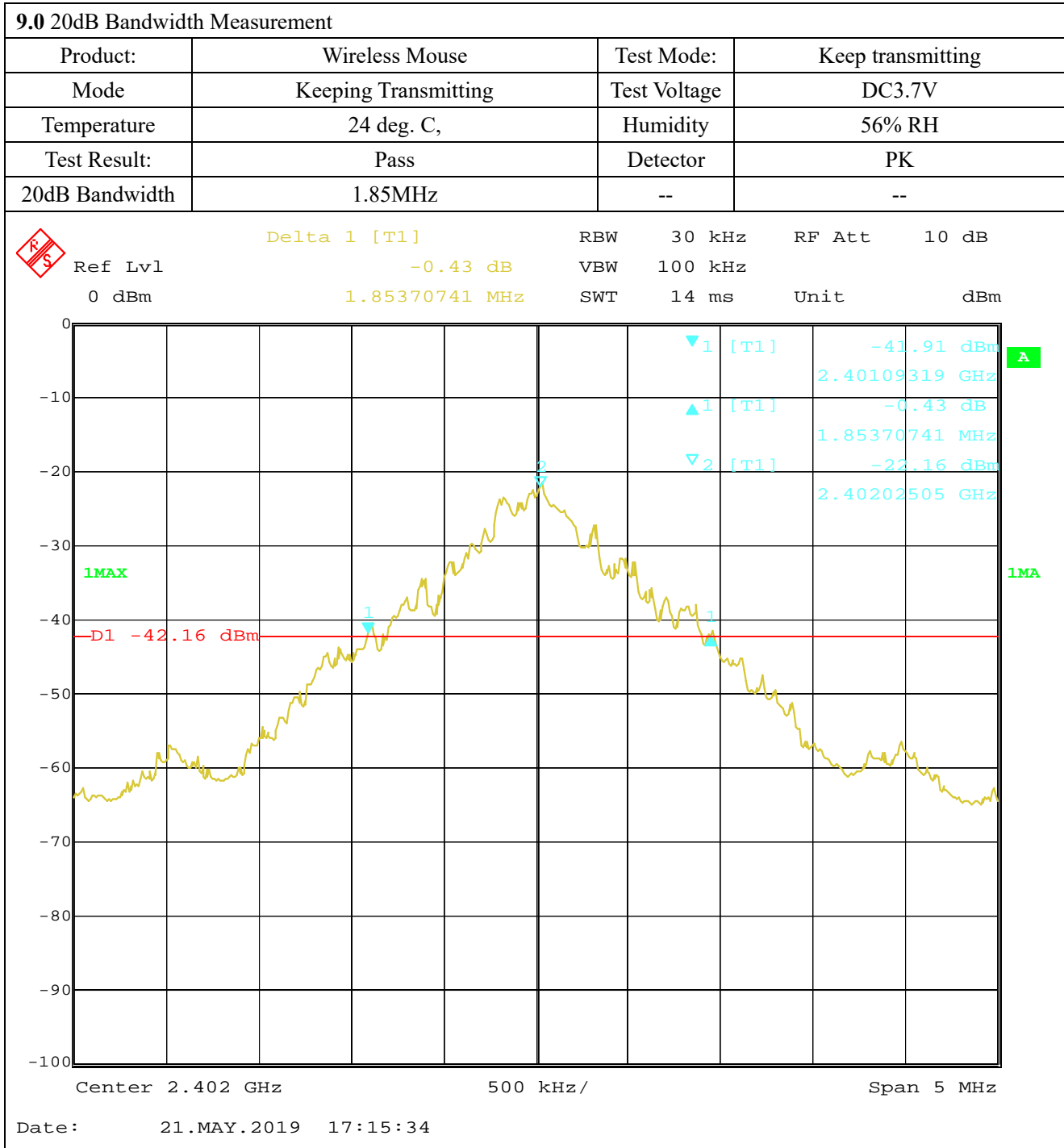
This product has a PCB antenna. The antenna gain is 0dBi Max. It fulfills the requirement of this section.

Test Result: Pass

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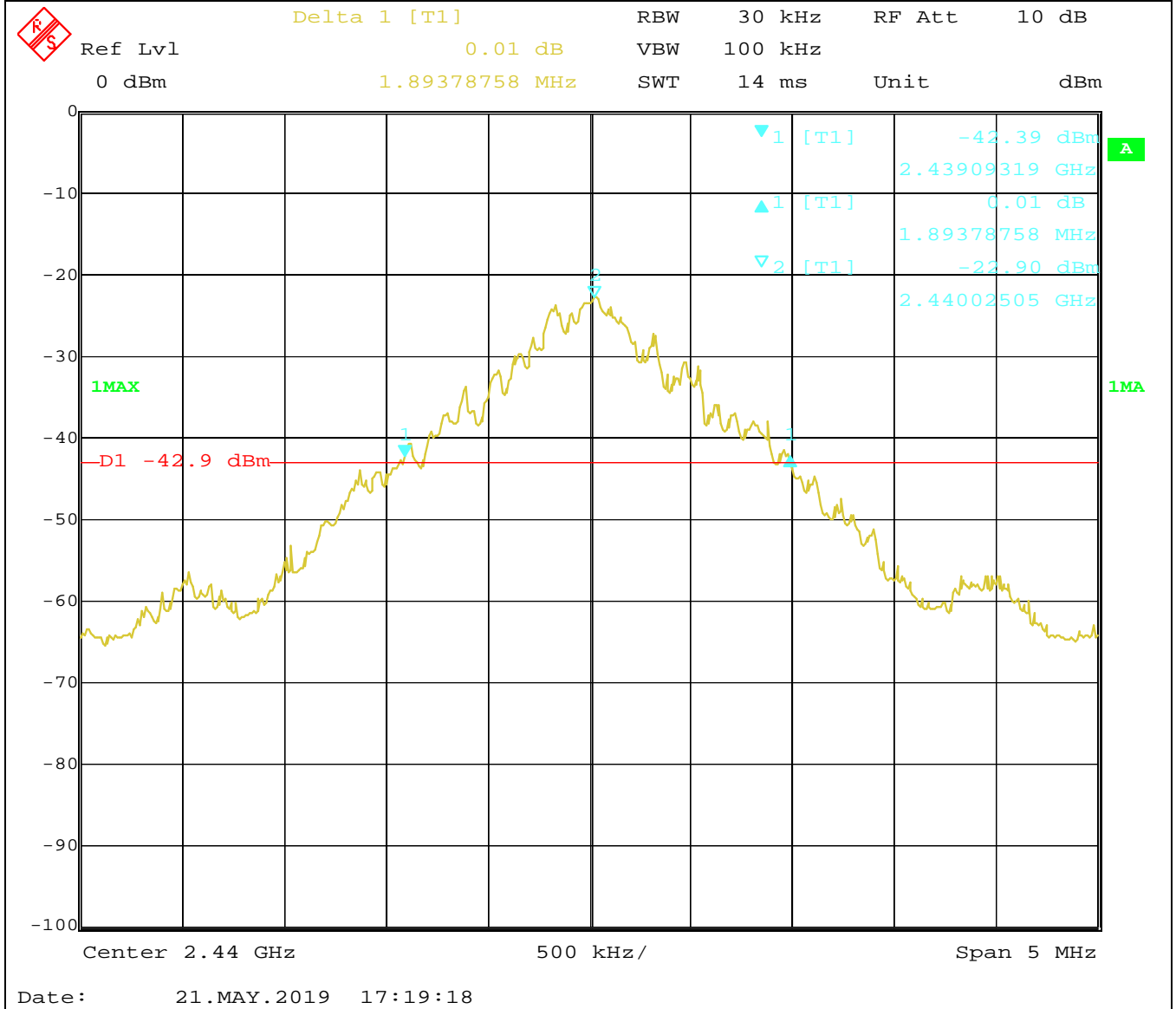
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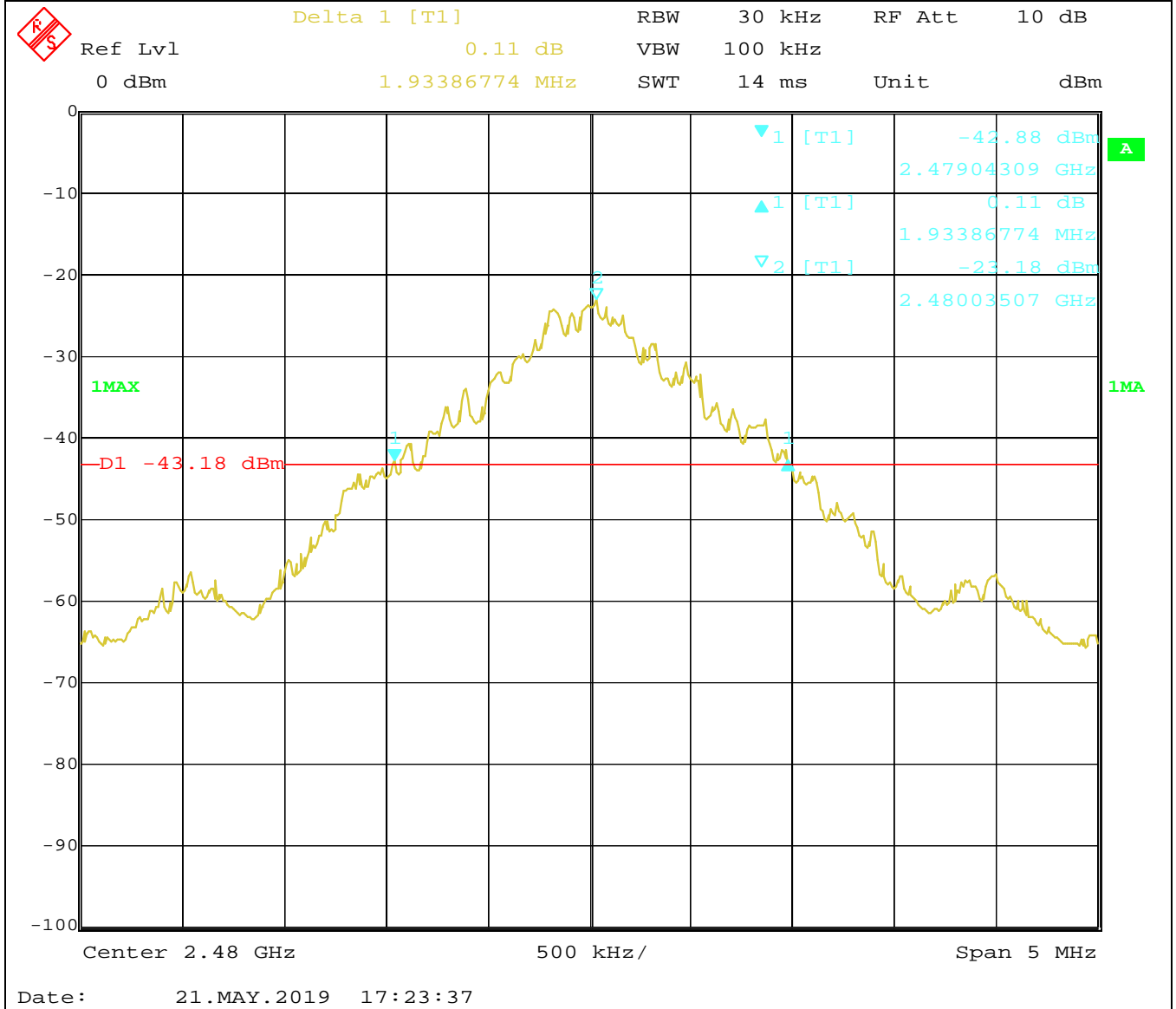
| | | | |
|----------------|----------------------|--------------|-------------------|
| Product: | Wireless Mouse | Test Mode: | Keep transmitting |
| Mode | Keeping Transmitting | Test Voltage | DC3.7V |
| Temperature | 24 deg. C, | Humidity | 56% RH |
| Test Result: | Pass | Detector | PK |
| 20dB Bandwidth | 1.89MHz | -- | -- |



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| | | | |
|----------------|----------------------|--------------|-------------------|
| Product: | Wireless 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 | 1.93MHz | -- | -- |



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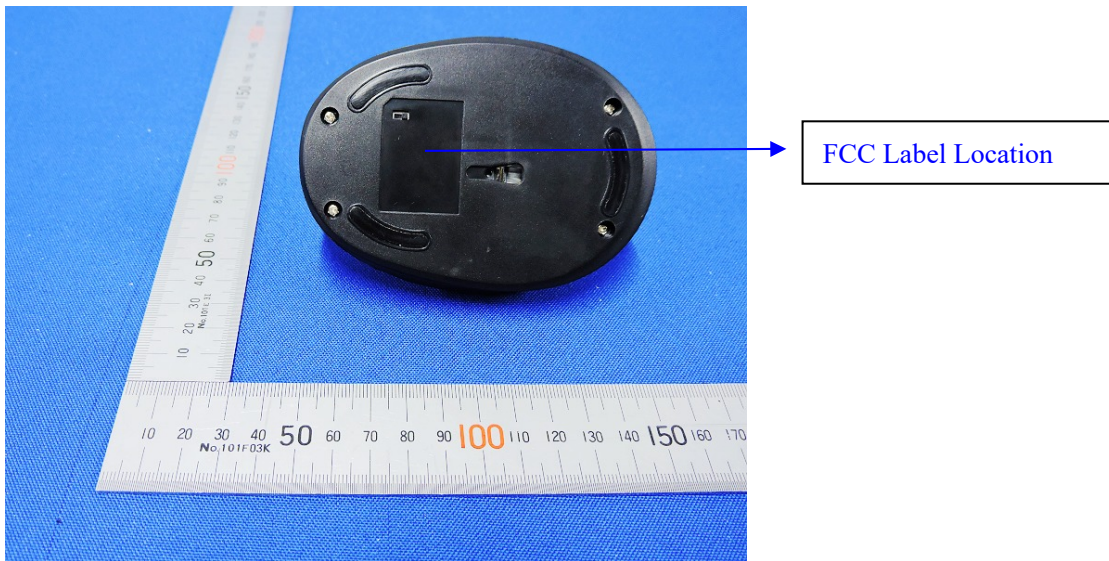


10.0 FCC ID Label

FCC ID: ZJEST-892

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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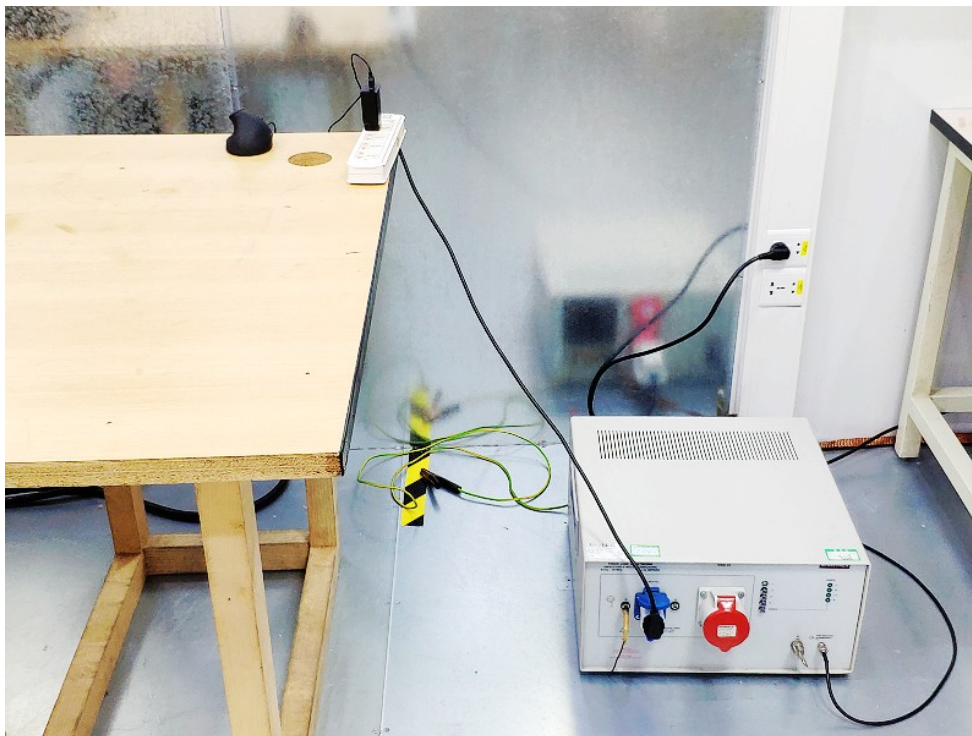
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11.0 Photo of testing

11.1 Conducted test View



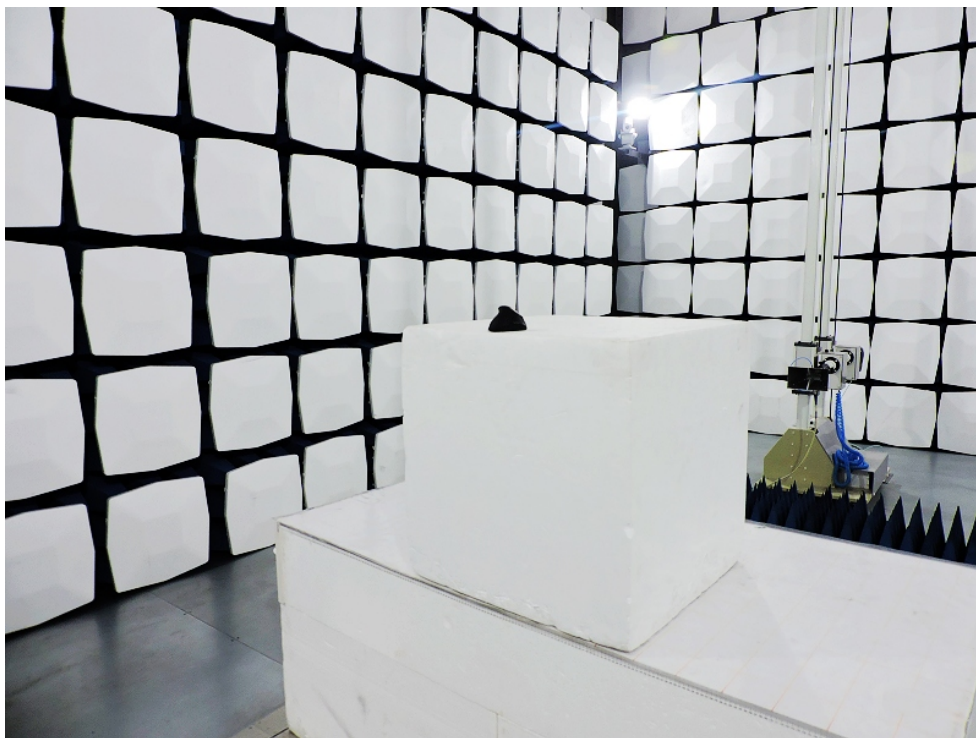
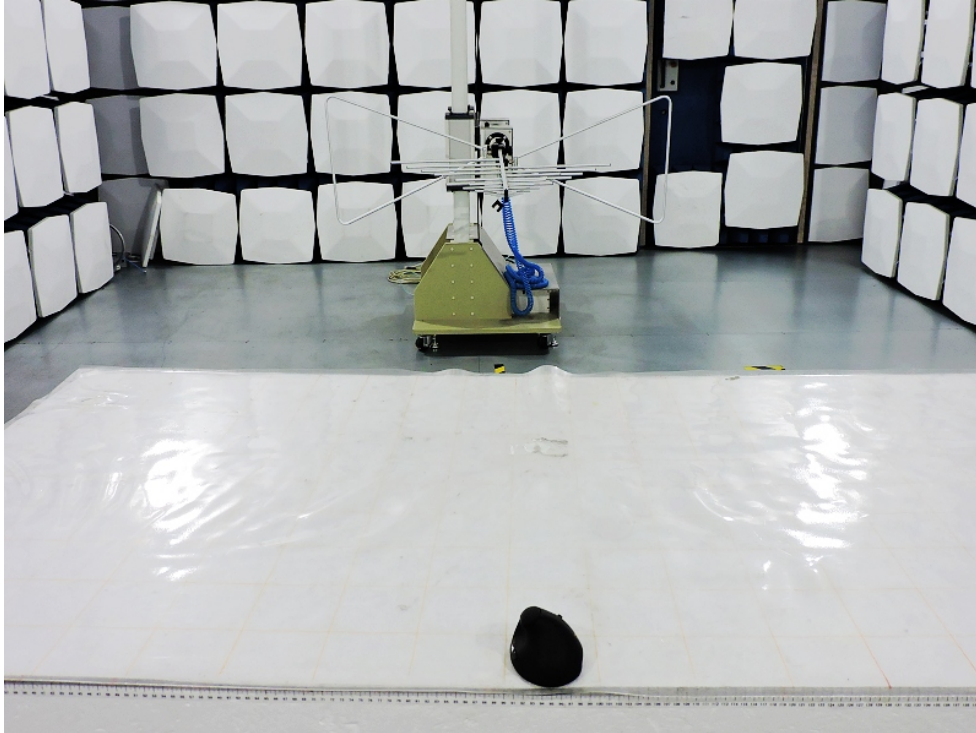
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11.2 Radiated emission test view



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11.3 Photographs – EUT

Outside View-Mouse



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Outside View-Mouse



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Outside View-Mouse

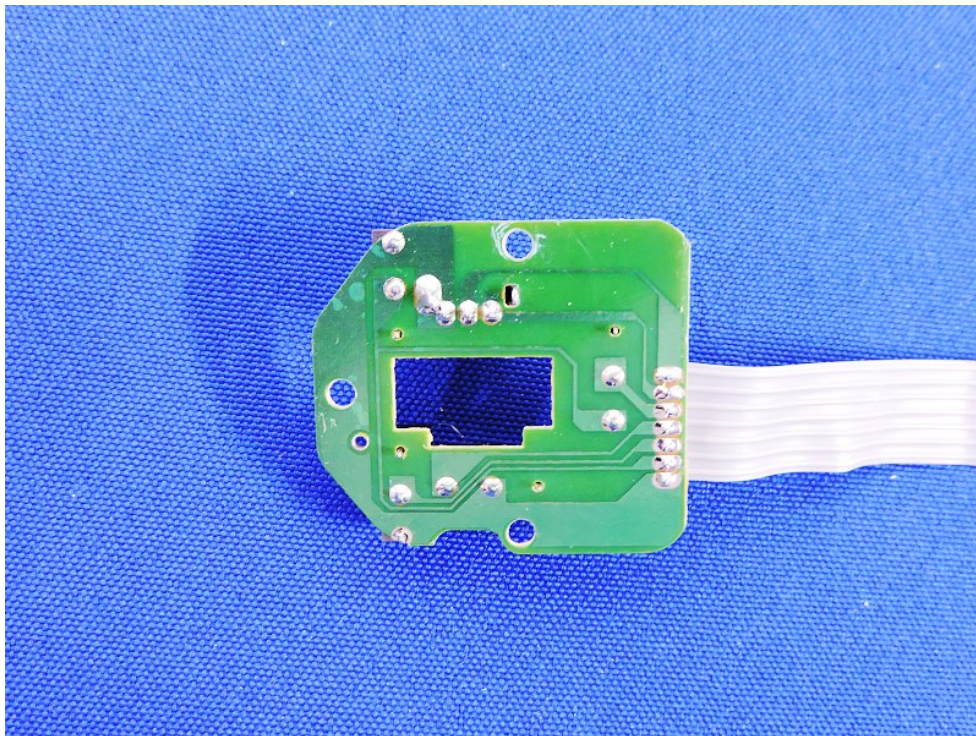


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Inside view-Mouse



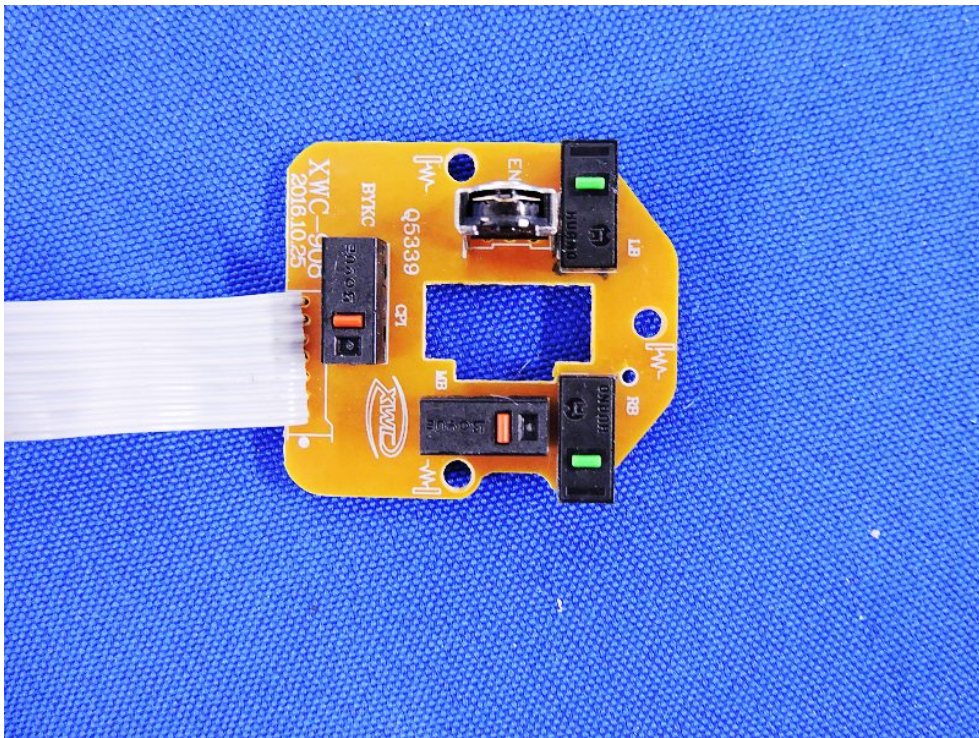
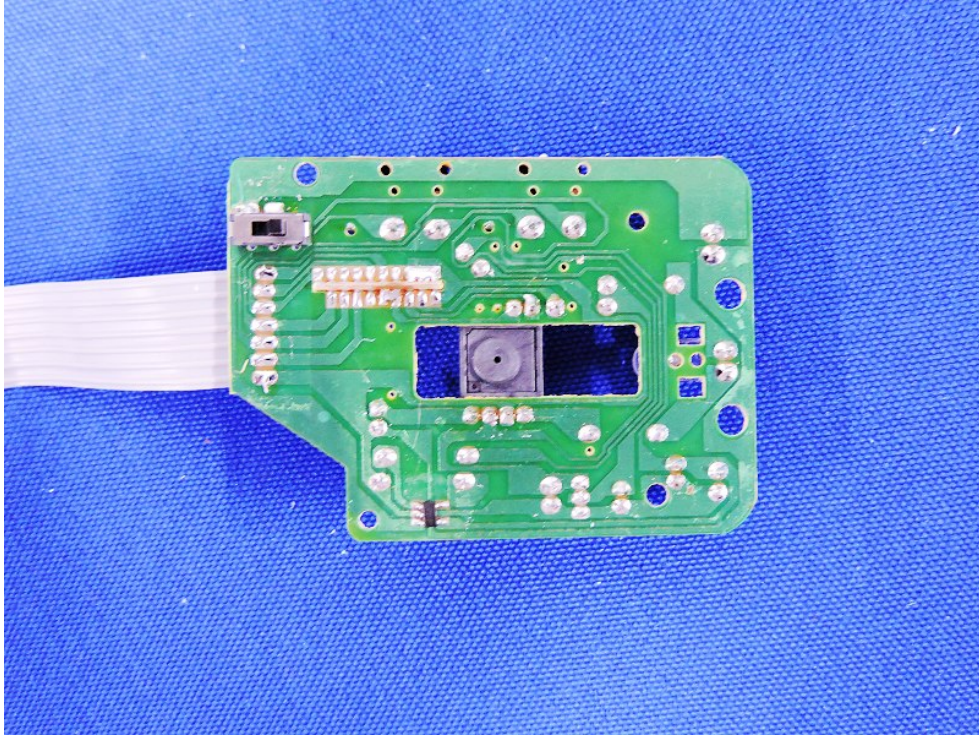
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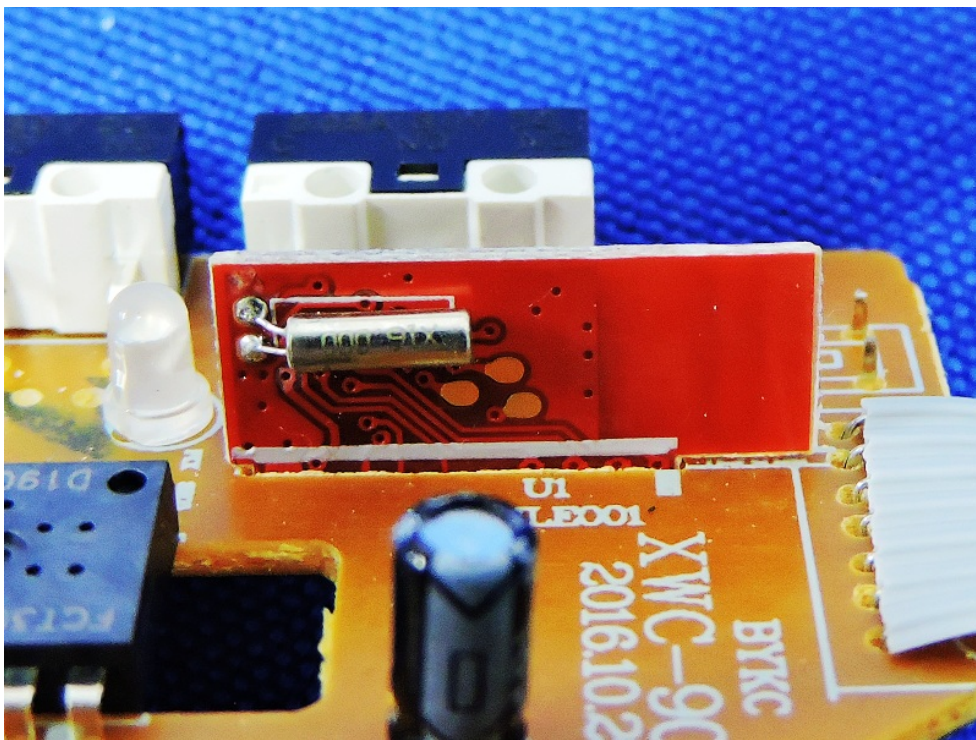
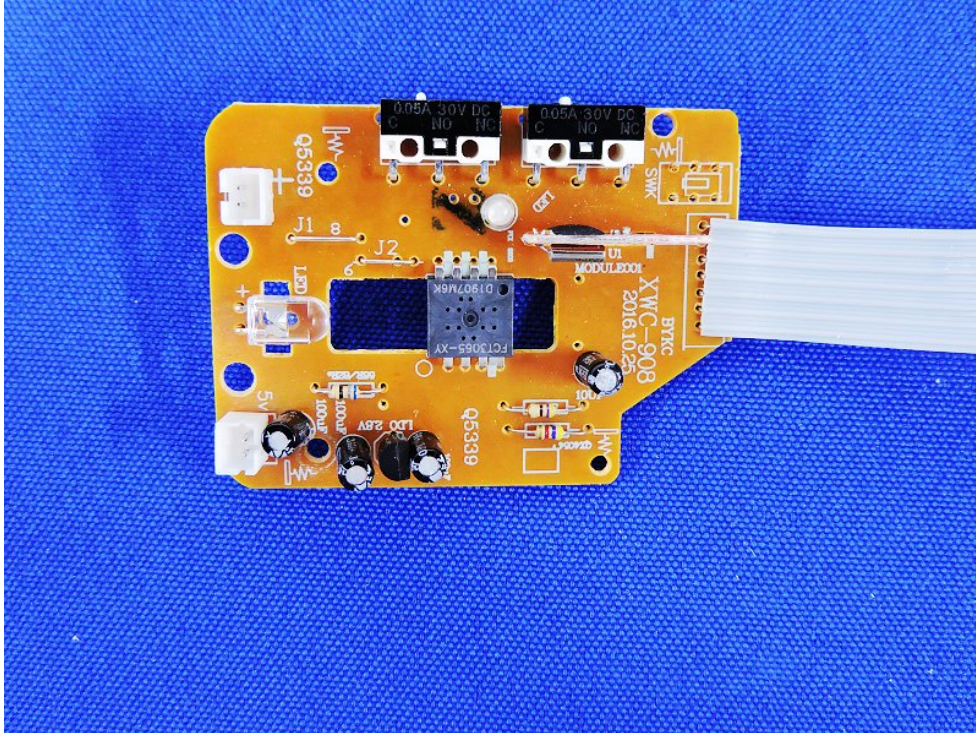


Inside view-Mouse



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Inside view-Mouse



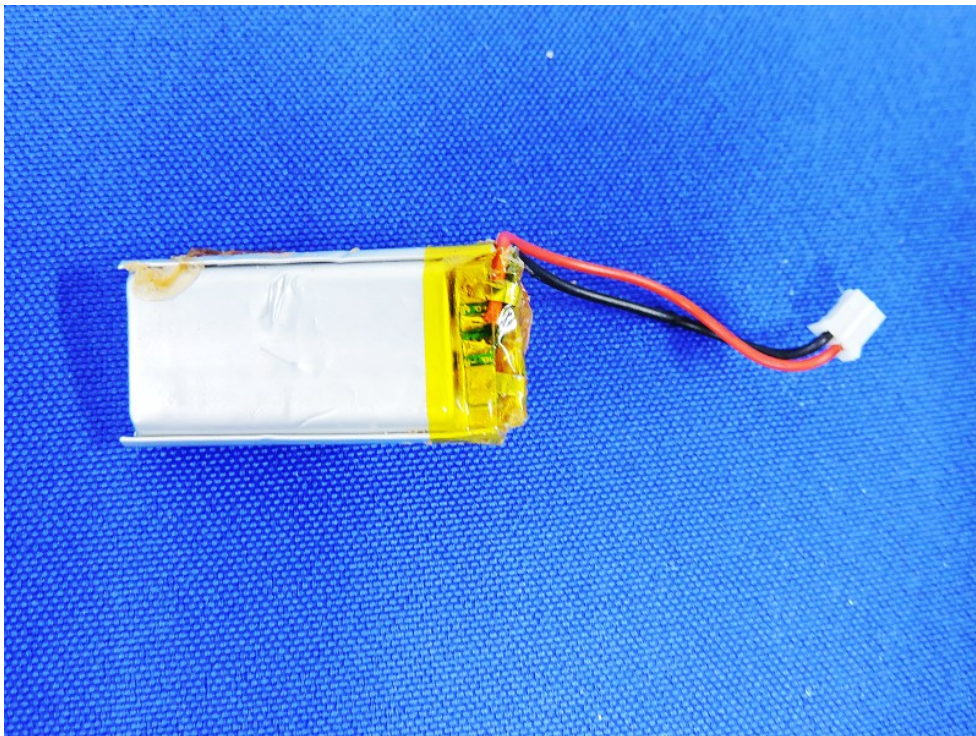
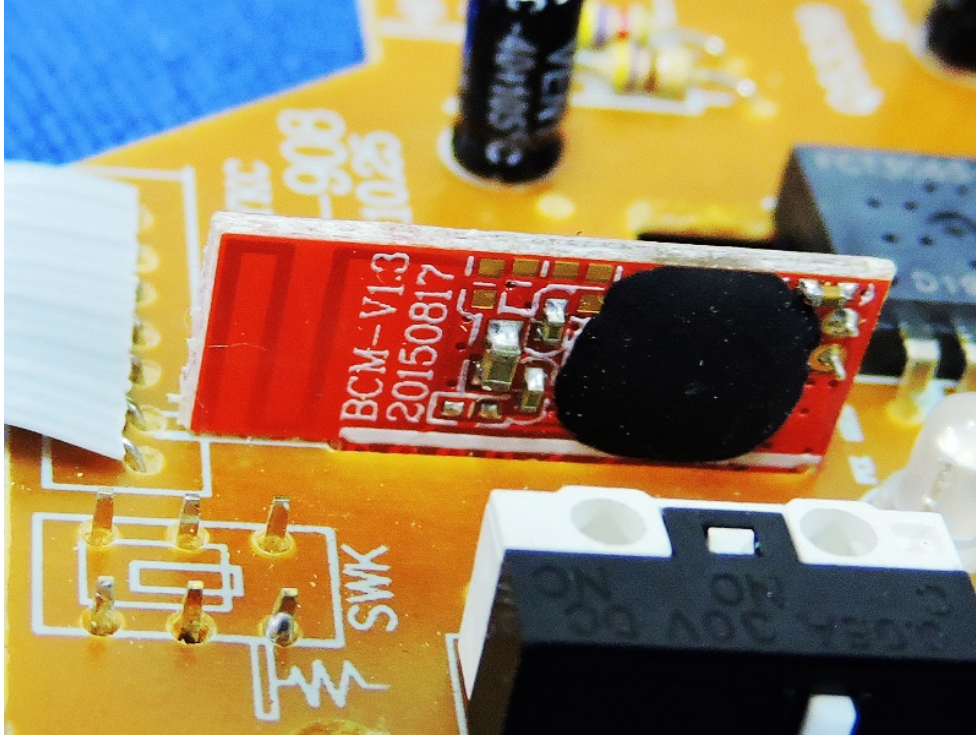
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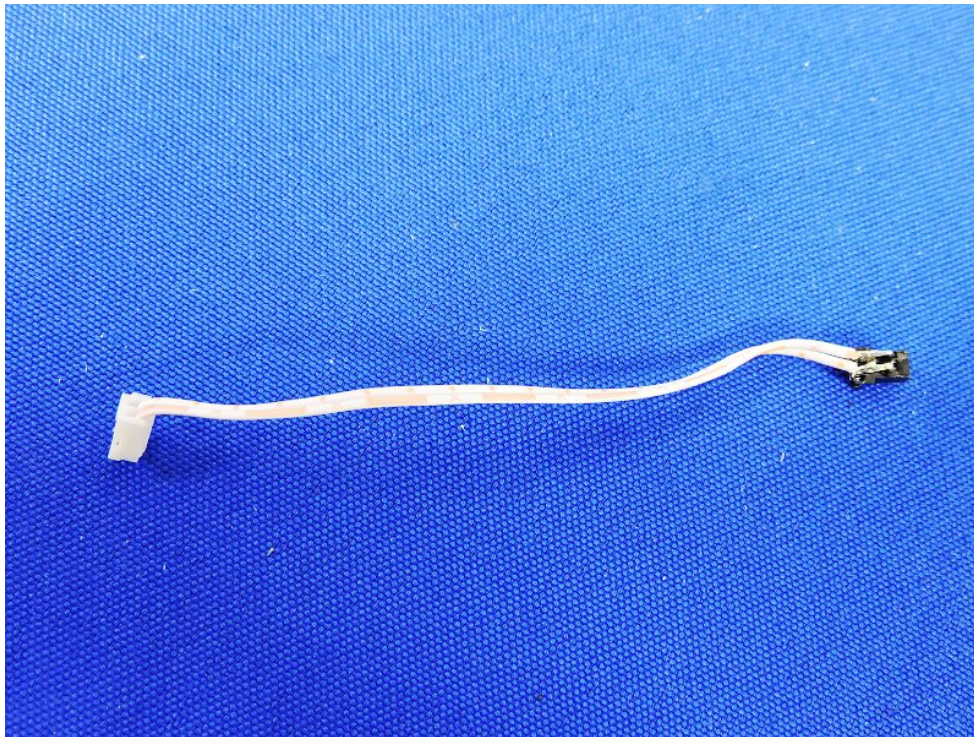
Inside view-Mouse



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Inside view-Mouse



--End of the report--

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