CMA Testing and Certification Laboratories
廠商會檢定中心

# TEST REPORT

Report No. : AU0025448(1) Date : 09 May 2016

Application No. : LU011136(1)

Applicant : I-Rocks Technology Co., Ltd
12F, No.190, Sec. 2, Zhongxing Rd., Xindian Dist.,
New Taipei City 23146, Taiwan

Sample Description : One(1) item of submitted sample stated to be Wireless Mouse
of Model No.

| I-Rock No. | SKU No. |
|---|---|
| IRM13R | 2604578 / 2604583 / 2604584 / 2604585 |

Sample registration No. : RU019660-003
Radio Frequency : 2408MHz – 2475MHz Transceiver
Rating : 2 x 1.5V AAA size batteries
No. of submitted sample : Two (2) set (s)

Date Received : 31 Mar 2016

Test Period : 08 Apr 2016 to 11 Apr 2016.

Test Requested : FCC Part 15 Certificate

Test Method : 47 CFR Part 15 (10-1-15 Edition)
ANSI C63.4 – 2014, ANSI C63.10 - 2013

Test Engineer : Mr. LEUNG Shu-kan, Ken

Test Result : See attached sheet(s) from page 2 to 29.

Conclusion : The submitted sample was found to comply with requirement of FCC Part 15 Subpart B and C.

Remark : All four models are the same in circuitry and components and construction, and therefore mode 2604578 was chosen to be the representative of the test sample. The difference(s) between the test model and the declared models is/are the Model No. and Color.

*For and on behalf of*
CMA Industrial Development Foundation Limited

Authorized Signature : _____

Mr. WONG Lap-pong, Andrew
Manager
Electrical Division



FCC ID: UJ9IRM13R



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## 1 General Information

### 1.1 General Description

The equipment under test (EUT) is a Wireless mouse. The EUT is power by 2 x 1.5V AAA size batteries. It operates at 2408MHz – 2475MHz. It will connect with a dongle to control PC by wireless

The brief circuit description is listed as follows:

| | |
|---|---|
| - U1 | and its associated circuit act as MCU and RF circuit |
| - U3 | and its associated circuit act as optical sensor |
| - X1 | and its associated circuit act as oscillator |
| - LB, FB, ID, MB, BB, RB | and its associated circuit act as control switch |





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**1.2 Location of the test site**

FCC Registered Test Site Number: 552221

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 – 2013. A shielded room is located at :

Ground Floor, Yan Hing Centre,
9 – 13 Wong Chuk Yeung Street,
Fo Tan, Shatin,
New Territories,
Hong Kong.





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### 1.3 List of measuring equipment

| Equipment | Manufacturer | Model No. | Serial No. | Calibration Due Date | Calibration Period |
|---|---|---|---|---|---|
| EMI Test Receiver | R&S | ESCI | 100152 | 27 Sep 2016 | 1Year |
| Spectrum Analyzer | R&S | FSV40 | 100628 | 09 Feb 2017 | 1Year |
| Broadband Antenna | Schaffner | CBL6112B | 2718 | 15 Mar 2017 | 2Years |
| Loop Antenna | EMCO | 6502 | 00056620 | 25 Jan 2018 | 2Years |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 9120D-531 | 24 Nov 2016 | 2Years |
| Broadband Pre-Amplifier | Schwarzbeck | BBV 9718 | 9718-119 | 24 Nov 2016 | 2Years |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170442 | 02 Aug 2017 | 2Years |
| Broadband Pre-Amplifier | Schwarzbeck | BBV 9719 | 9719-010 | 02 Aug 2017 | 2Years |
| Coaxial Cable | Schaffner | RG 213/U | N/A | 18 May 2016 | 1Years |
| Coaxial Cable | Suhner | RG 214/U | N/A | 18 May 2016 | 1Years |
| Coaxial Cable | Suhner | Sucoflex_104 | N/A | 13 Dec 2016 | 1Years |





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### 1.4 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%.

Radiated emissions

| Frequency | Uncertainty ($U_{lab}$) |
|---|---|
| 30MHz ~ 200MHz (Horizontal) | 4.83dB |
| 30MHz ~ 200MHz (Vertical) | 4.84dB |
| 200MHz ~1000MHz (Horizontal) | 4.87dB |
| 200MHz ~1000MHz (Vertical) | 5.94dB |
| 1GHz ~6GHz | 4.41dB |
| 6GHz ~18GHz | 4.64dB |

Conducted emissions

| Frequency | Uncertainty ($U_{lab}$) |
|---|---|
| 150kHz~30MHz | 2.64dB |





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## 2 Description of the radiated emission test

### 2.1 Test Procedure

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.10 – 2013.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground for below 1GHz measurement and 1.5m high above the ground for above 1GHz measurement. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

For 30MHz to 1GHz, broadband antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. And the reference point of antenna shall be 1 m above the ground.

For above 1GHz, horn antenna with its vertical and horizontal plane is placed 3m from the EUT and rotated about its vertical and horizontal axis for maximum response at each azimuth about the EUT. Preamplifier and High Pass filter was used for measurements. The reference point of antenna shall be 1 m above the ground.

The device was rotated through three orthogonal to determine which attitude and configuration produce the highest emission during measurement for Radiated Emission measurement.





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**2.2 Test Result**

Subpart C:
Peak Detector data were measured unless otherwise stated.

"#" means emissions appear within the restricted bands shall follow the requirement of section 15.205.

The frequencies from fundamental up to that tenth harmonics were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next page (section 2.3).

It was found that the EUT not meet the FCC requirement

Subpart B:
Quasi-Peak Detector data were measured unless otherwise stated.

"#" means emissions appear within the restricted bands shall follow the requirement of section 15.205.

The emissions meet the requirement of section 15.109 are based on measurements employing the CISPR quasi-peak detector below 1000MHz and average detector for frequencies above 1000MHz.

The frequencies from 30MHz to 1000MHz were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next page (section 2.3).

It was found that the EUT meet the FCC requirement.





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## 2.3 Radiated Emission Measurement Data

**Radiated emission**

**pursuant to**

**the requirement of FCC Part 15 subpart C**

Environmental conditions:

| Parameter | Recorded value | |
|---|---|---|
| Ambient temperature: | 25 | ° C |
| Relative humidity: | 79 | % |

Measurement: Peak RBW: 1MHz VBW: 3MHz Operation mode: Transmission
Testing frequency range: 9kHz to 25GHz

| Frequency (MHz) | Polarity (H/V) | Reading at 3m (dBµV) | Transducer Factor (dB/m) | Field Strength at 3m (dBµV/m) | Limit at 3m (dBµV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 2407.540 | V | 80.8 | - 4.2 | 76.6 | 114.0 | - 37.4 |
| #4817.049 | H | 42.0 | 3.7 | 45.7 | 74.0 | - 28.3 |
| #4817.049 | V | 49.3 | 3.7 | 53.0 | 74.0 | - 21.0 |
| 7225.479 | V | 38.6 | 11.5 | 50.1 | 74.0 | - 23.9 |
| 2440.549 | V | 80.1 | - 4.2 | 75.9 | 114.0 | - 38.1 |
| #4879.001 | H | 43.8 | 3.7 | 47.5 | 74.0 | - 26.5 |
| #4879.131 | V | 50.1 | 3.7 | 53.8 | 74.0 | - 20.2 |
| #7321.558 | V | 39.1 | 11.5 | 50.6 | 74.0 | - 23.4 |
| 2473.540 | V | 79.1 | - 4.3 | 74.8 | 114.0 | - 39.2 |
| #4947.071 | H | 47.9 | 4.0 | 51.9 | 74.0 | - 22.1 |
| #4949.029 | V | 49.6 | 4.0 | 53.6 | 74.0 | - 20.4 |
| #7423.399 | H | 38.1 | 11.5 | 49.6 | 74.0 | - 24.4 |

Remark: Peak measurement values are lower than the average limit, therefore average measurement is not necessary.
Other emissions more than 20dB below the limit are not reported.



FCC ID: UJ9IRM13R



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## 2.3 Radiated Emission Measurement Data (Con't)

**Radiated emission**

**pursuant to**

**the requirement of FCC Part 15 subpart C**

Environmental conditions:

| Parameter | Recorded value | |
|---|---|---|
| Ambient temperature: | 25 | ° C |
| Relative humidity: | 79 | % |

Detector: Quasi-peak
RBW: 120kHz
VBW: 300kHz
Testing frequency range: 9kHz to 25GHz Operation mode: Transmission

| Frequency (MHz) | Polarity (H/V) | Reading at 3m (dBμV) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 50.596 | H | 7.7 | 10.6 | 18.3 | 40.0 | - 21.7 |
| 89.441 | H | 8.5 | 9.7 | 18.2 | 43.5 | - 25.3 |
| #135.822 | H | 8.3 | 14.4 | 22.7 | 43.5 | - 20.8 |
| 195.926 | H | 9.3 | 11.2 | 20.5 | 43.5 | - 23.0 |
| 238.545 | H | 9.1 | 13.2 | 22.3 | 46.0 | - 23.7 |
| #277.297 | H | 8.9 | 15.4 | 24.3 | 46.0 | - 21.7 |
| 315.248 | H | 8.5 | 16.8 | 25.3 | 46.0 | - 20.7 |

Remark: Other emissions more than 20dB below the limit are not reported.





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## 2.3 Radiated Emission Measurement Data (Con't)

**Radiated emission**

**pursuant to**

**the requirement of FCC Part 15 subpart B**

Environmental conditions:

| Parameter | Recorded value | |
|---|---|---|
| Ambient temperature: | 25 | ° C |
| Relative humidity: | 79 | % |

Detector: Quasi-peak
RBW: 120kHz
VBW: 300kHz
Testing frequency range: 9kHz to 25GHz Operation mode: Receiving

| Frequency (MHz) | Polarity (H/V) | Reading at 3m (dBμV) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 51.491 | H | 7.4 | 10.6 | 18.0 | 40.0 | - 22.0 |
| 92.664 | H | 8.7 | 10.1 | 18.8 | 43.5 | - 24.7 |
| #131.752 | H | 8.4 | 14.4 | 22.8 | 43.5 | - 20.7 |
| 204.602 | H | 8.4 | 12.0 | 20.4 | 43.5 | - 23.1 |
| 239.220 | H | 9.2 | 13.2 | 22.4 | 46.0 | - 23.6 |
| #282.711 | H | 9.0 | 15.4 | 24.4 | 46.0 | - 21.6 |
| 315.077 | H | 8.6 | 16.8 | 25.4 | 46.0 | - 20.6 |

Remark: Other emissions more than 20dB below the limit are not reported.





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## 3 Description of the Line-conducted Test

### 3.1 Test Procedure

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.10 – 2013. The EUT was setup as described in the procedures, and both lines were measured.

### 3.2 Test Result

No measurement is required as the EUT is a battery-operated product.

### 3.3 Graph and Table of Conducted Emission Measurement Data

Not Applicable





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## 4 Photograph

### 4.1 Photographs of the Test Setup for Radiated Emission and Conducted Emission

For electronic filing, the photos are saved with filename UJ9IRM13R TSup.pdf.

### 4.2 Photographs of the External and Internal Configurations of the EUT

For electronic filing, the photos are saved with filename UJ9IRM13R ExPho.pdf and UJ9IRM13R InPho.pdf.





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## 5 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

| Document | Filename |
|---|---|
| ID Label/Location | LabelSmp.jpg |
| Block Diagram | BlkDia.pdf |
| Schematic Diagram | Schem.pdf |
| Users Manual | UserMan.pdf |
| Operational Description | OpDes.pdf |

### 5.1 Bandwidth

The plot in Appendices A7 shows the fundamental emission is confined in the specified band. It shows the 20dB bandwidth met the 15.215 requirement for frequency band 2400 to 2483.5 MHz.

The plot in Appendices A6 shows the band edge is fulfil 15.209 requirement.

### 5.2 EUT Antenna

Appendices A4 shows the antenna is permanently attached and cannot be changed. Therefore it fulfils the section 15.203 requirement.





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## 6 Appendices

| | | | |
|---|---|---|---|
| A1 | Photos of the set-up of Radiated Emissions | 3 | pages |
| A2 | Photos of External Configurations | 2 | pages |
| A3 | Photos of Internal Configurations | 1 | page |
| A4 | EUT Antenna | 1 | page |
| A5 | ID Label/Location | 3 | pages |
| A6 | Band Edge | 2 | pages |
| A7 | 20dB Bandwidth Plot | 2 | pages |





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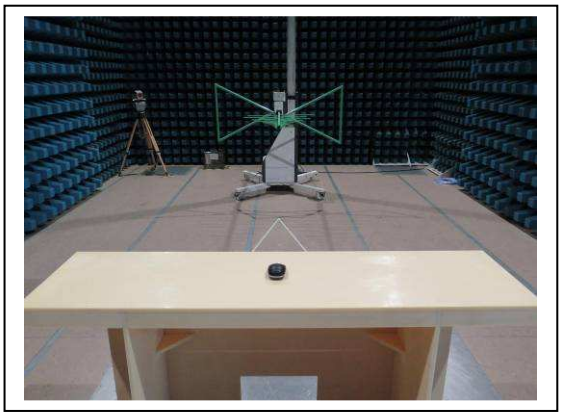
## A1. Photos of the set-up of Radiated Emissions



(Front view, 30MHz – 1GHz)

(Back view, 30MHz – 1GHz)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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## A1. Photos of the set-up of Radiated Emissions

(Front view, 9KHz – 30MHz)

(Back view, 9KHz – 30MHz)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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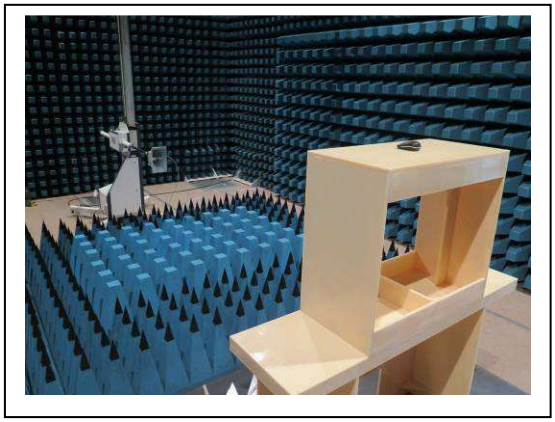
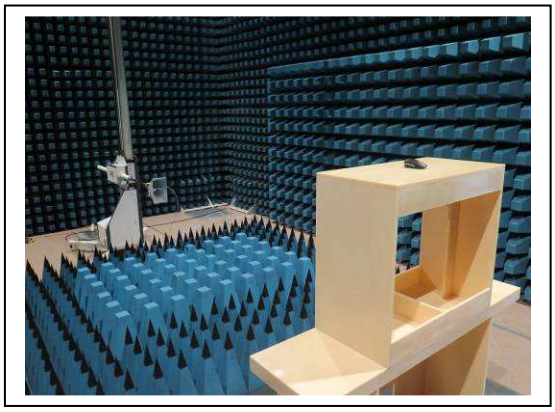
## A1. Photos of the set-up of Radiated Emissions



(front view, 1GHz – 25GHz)



(rear view, 1GHz – 25GHz)

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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## A2. Photos of External Configuration

External Configuration 1

External Configuration 2

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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## A2. Photos of External Configuration

External Configuration 3

External Configuration 4

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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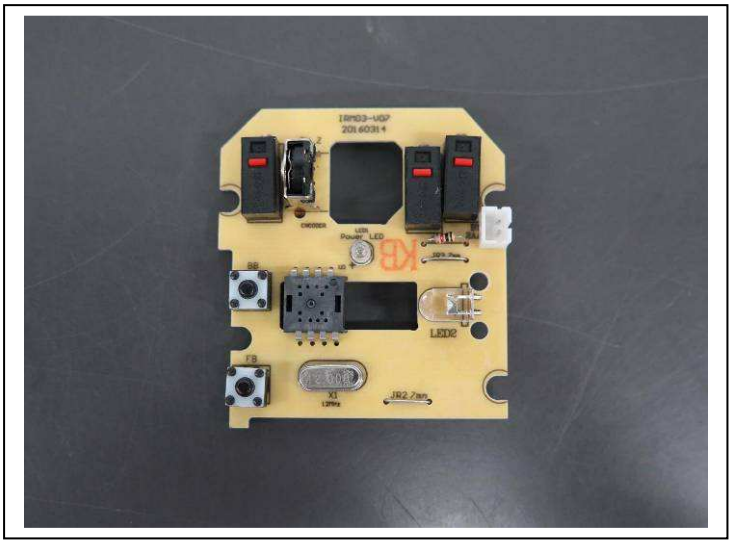
## A3. Photos of Internal Configuration



Internal Configuration 1

Internal Configuration 2

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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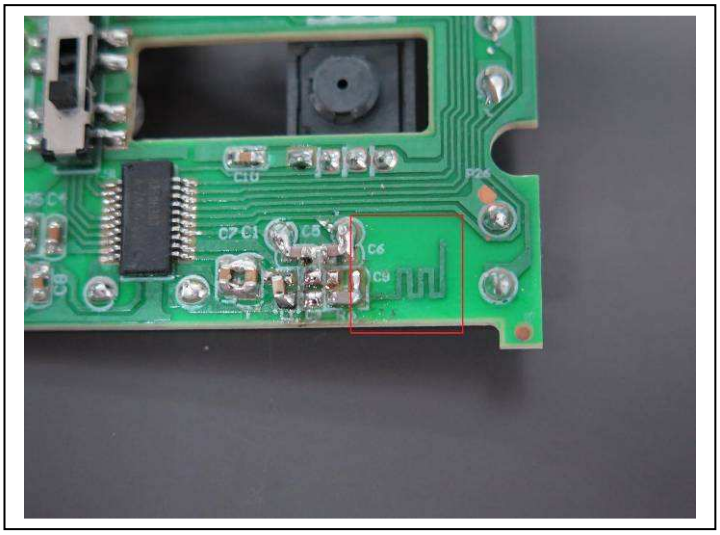
## A4. EUT Antenna



Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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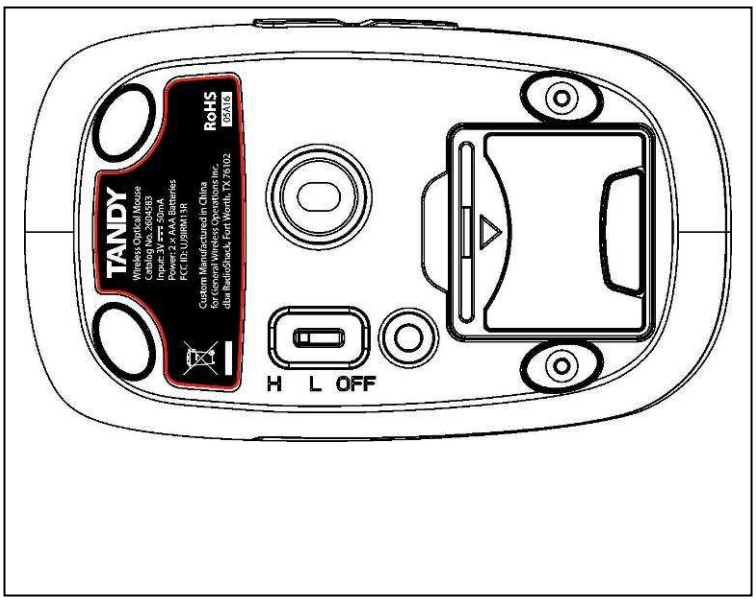
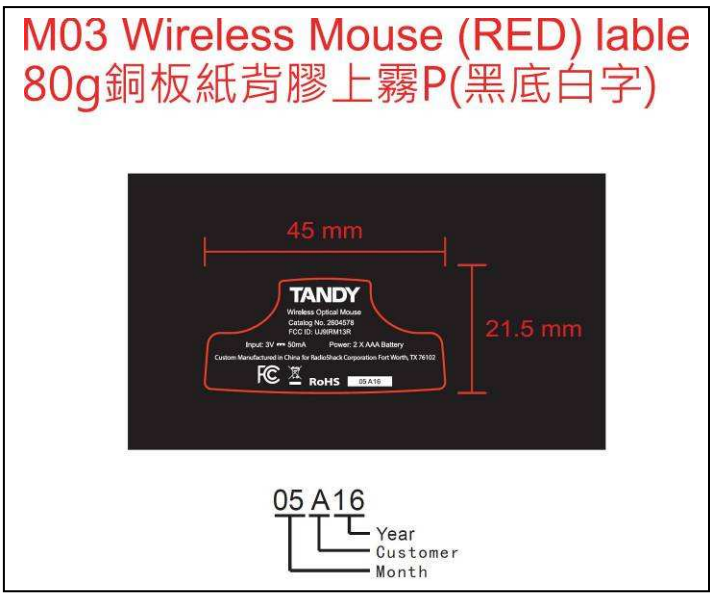
## A5. ID Label/Location




ID Label 1




ID Label 2

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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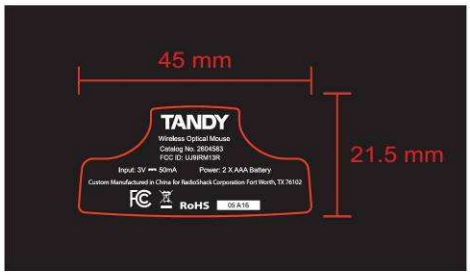
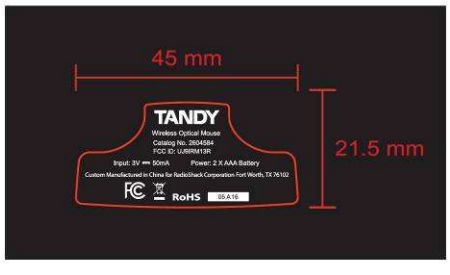
## A5. ID Label/Location

M03 Wireless Mouse (BLUE) lable
80g銅板紙背膠上霧P(黑底白字)




ID Label 3

M03 Wireless Mouse (BLACK) lable
80g銅板紙背膠上霧P(黑底白字)




ID Label 4

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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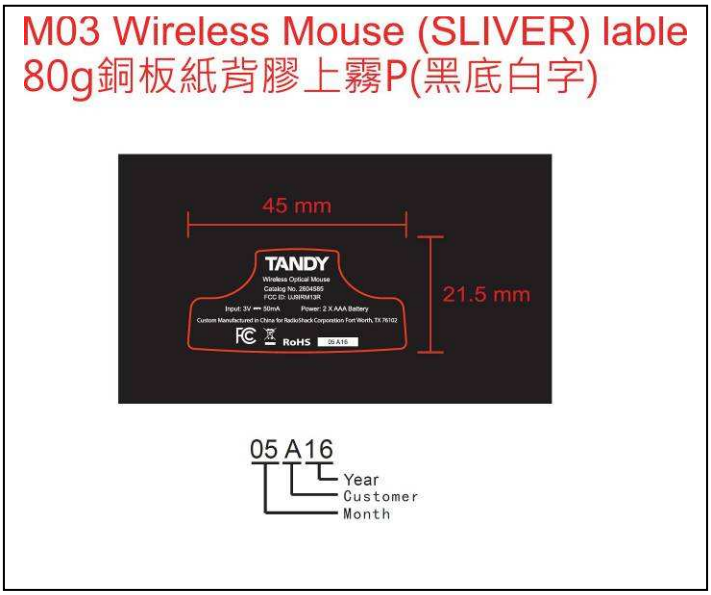
## A5. ID Label/Location




ID Label 5

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew

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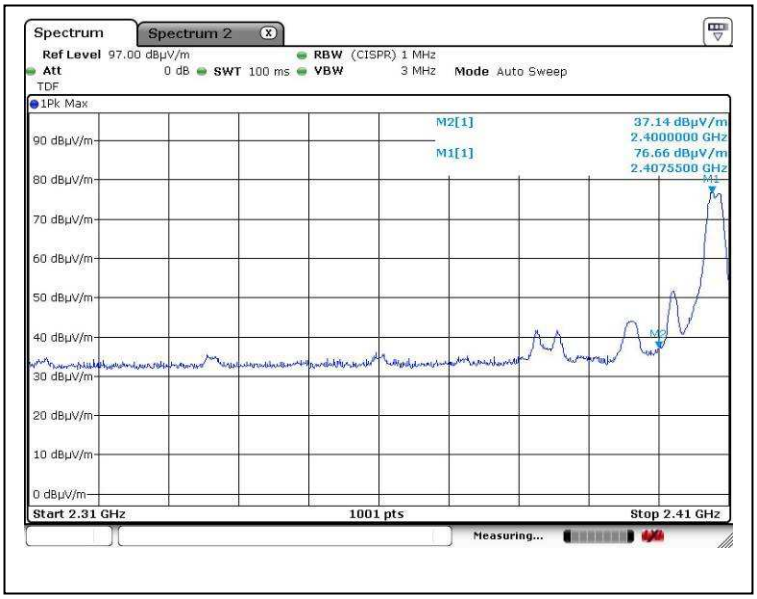
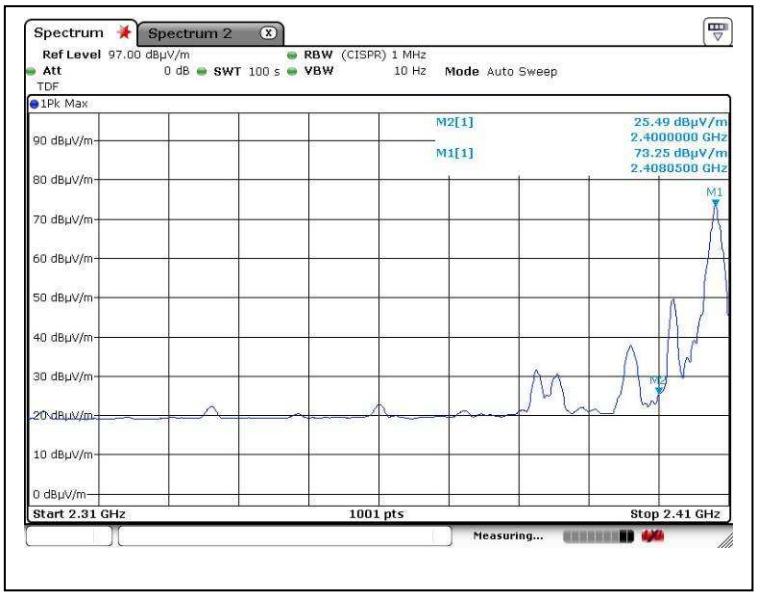
## A6. Band Edge




Lower edge (Peak measurement)




Lower edge (Average measurement)

Tested by: Reviewed by:

Mr. LEUNG Shu-kan, Ken Mr. WONG Lap-pong, Andrew

# TEST REPORT

Report No. : AU0025448(1) Date : 09 May 2016

## A6. Band Edge


Upper edge (Peak measurement)


Upper edge (Average measurement)

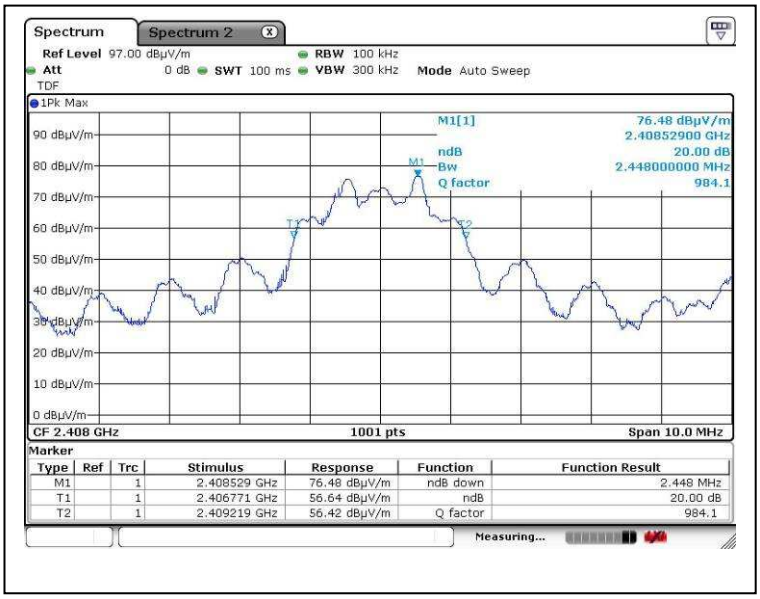
Tested by: Reviewed by:

Mr. LEUNG Shu-kan, Ken Mr. WONG Lap-pong, Andrew

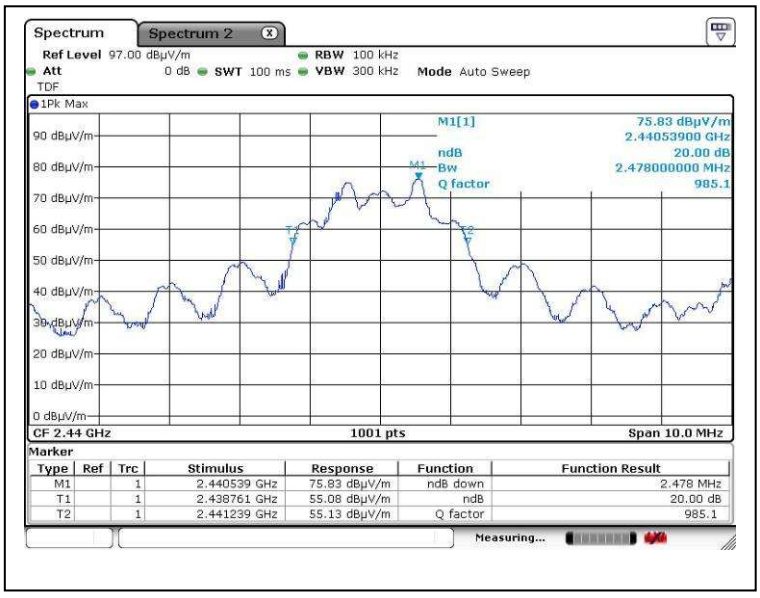
# TEST REPORT

Report No. : AU0025448(1) Date : 09 May 2016

## A7. 20dB Bandwidth Plot




Bandwidth 1 (2408MHz)




Bandwidth 2 (2440MHz)

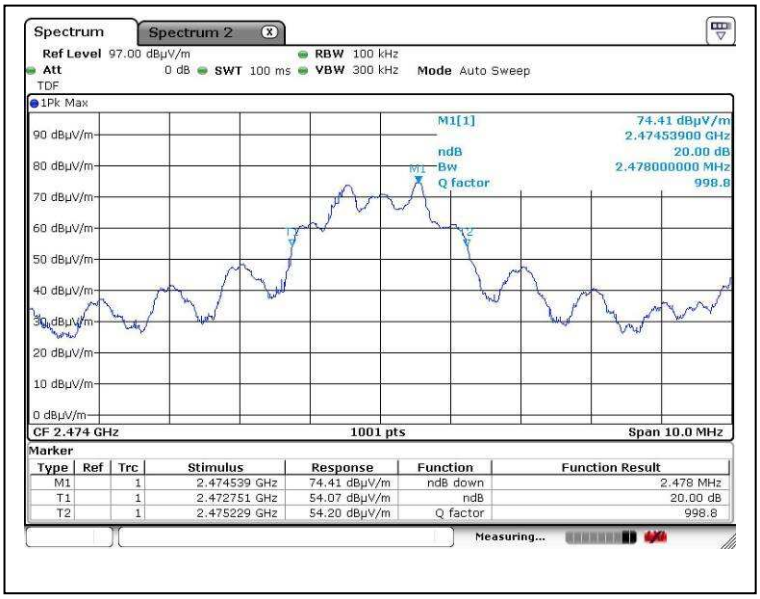
Tested by: Reviewed by:

Mr. LEUNG Shu-kan, Ken Mr. WONG Lap-pong, Andrew

# TEST REPORT

Report No. : AU0025448(1) Date : 09 May 2016

## A7. 20dB Bandwidth Plot




Bandwidth 3 (2475MHz)

***** End of Report *****

Tested by: Mr. LEUNG Shu-kan, Ken

Reviewed by: Mr. WONG Lap-pong, Andrew