



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AU0030246(4) Date : 30 May 2016

Application No. : LU015133(2)

Applicant : Zego Electronic Company Limited (Shenzhen Yangri Electronic Ltd)  
Room 703, Kowloon Building,  
555 Nathan Road, Kowloon, HK

Sample Description : One(1) item of submitted sample stated to be Avadrone  
of Model No. 66025  
Sample registration No. : RU014808-001  
Radio Frequency : 2412MHz – 2462MHz Transceiver  
Rating : USB 5V charging adaptor  
: 3.7V rechargeable battery

Date Received : 04 May 2016

Test Period : 09 May 2016 to 16 May 2016.

Test Requested : FCC Part 15 Certificate (15.247)

Test Method : 47 CFR Part 15 (10-1-14 Edition), ANSI C63.4 – 2014, ANSI C63.10 – 2013  
KDB 558074 D01 DTS Meas Guidance v03r03

Test Engineer : Mr. LEUNG Shu-kan, Ken

Test Result : See attached sheet(s) from page 2 to 50.

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

For and on behalf of  
CMA Industrial Development Foundation Limited

Authorized Signature : \_\_\_\_\_

  
Mr. WONG Lap-pong, Andrew  
Manager  
Electrical Division

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FCC ID: 2ACS611TX



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### 1 General Information

#### 1.1 General Description

The equipment under test (EUT) is a APP control drone. The EUT is power by 3.7V rechargeable battery. It operates at 2412MHz – 2462MHz. The EUT is connected with smart phone by WiFi (802.11b and 802.11g). When the user using the app, the EUT will take the corresponding action.

The brief circuit description is listed as follows:

- U2 and its associated circuit act as WiFi module
- U1 and its associated circuit act as MCU
- U4, U5, U6, U9 and its associated circuit act as power regulator
- Y1 and its associated circuit act as oscillator
- U3 and its associated circuit act as eeprom



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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,  
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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             |
| LISN                    | R&S              | ENV216       | 101323      | 21 Oct 2016          | 1Year              |
| Coaxial Cable           | Tyco Electronics | RG 58C/U     | N/A         | 01 Nov 2016          | 1Year              |

Support equipment:

Adaptor

Model: A1299

Supply by CMA



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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: | 26             | ° C |
| Relative humidity:   | 60             | %   |

Measurement: Peak RBW: 1MHz VBW: 3MHz  
Testing frequency range: 9kHz to 25GHz Mode: 802.11b

| 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) |
|-----------------|----------------|----------------------|--------------------------|-------------------------------|----------------------|-------------|
| 2412.058        | V              | 105.7                | - 4.2                    | 101.5                         | 114.0                | - 12.5      |
| #4824.005       | V              | 39.2                 | 3.7                      | 42.9                          | 74.0                 | - 31.1      |
| #4824.038       | H              | 42.7                 | 3.7                      | 46.4                          | 74.0                 | - 27.6      |
| 2437.050        | H              | 110.1                | - 4.2                    | 105.9                         | 114.0                | - 8.1       |
| #4873.778       | H              | 40.7                 | 3.7                      | 44.4                          | 74.0                 | - 29.6      |
| #4874.121       | V              | 38.5                 | 3.7                      | 42.2                          | 74.0                 | - 31.8      |
| 2463.299        | H              | 111.8                | - 4.3                    | 107.5                         | 114.0                | - 6.5       |
| #4924.017       | H              | 45.1                 | 4.0                      | 49.1                          | 74.0                 | - 24.9      |
| #4924.222       | V              | 38.4                 | 4.0                      | 42.4                          | 74.0                 | - 31.6      |

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 C

Environmental conditions:

| Parameter            | Recorded value |     |
|----------------------|----------------|-----|
| Ambient temperature: | 25             | ° C |
| Relative humidity:   | 61             | %   |

Measurement: Average RBW: 1MHz VBW: 10Hz  
Testing frequency range: 9kHz to 25GHz Mode: 802.11b

| 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) |
|-----------------|----------------|----------------------|--------------------------|-------------------------------|----------------------|-------------|
| 2412.619        | V              | 63.8                 | - 4.2                    | 59.6                          | 94.0                 | - 34.4      |
| #4823.929       | H              | 25.9                 | 3.7                      | 29.6                          | 54.0                 | - 24.4      |
| #4823.945       | V              | 23.1                 | 3.7                      | 26.8                          | 54.0                 | - 27.2      |
| 2435.601        | H              | 65.7                 | - 4.2                    | 61.5                          | 94.0                 | - 32.5      |
| #4873.940       | H              | 24.2                 | 3.7                      | 27.9                          | 54.0                 | - 26.1      |
| #4873.943       | V              | 23.0                 | 3.7                      | 26.7                          | 54.0                 | - 27.3      |
| 2462.899        | H              | 66.8                 | - 4.3                    | 62.5                          | 94.0                 | - 31.5      |
| #4923.904       | H              | 26.5                 | 4.0                      | 30.5                          | 54.0                 | - 23.5      |
| #4924.222       | V              | 22.2                 | 4.0                      | 26.2                          | 54.0                 | - 27.8      |

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 C

Environmental conditions:

| Parameter            | Recorded value |     |
|----------------------|----------------|-----|
| Ambient temperature: | 26             | ° C |
| Relative humidity:   | 60             | %   |

Measurement: Peak RBW: 1MHz VBW: 3MHz  
Testing frequency range: 9kHz to 25GHz Mode: 802.11g

| 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) |
|-----------------|----------------|----------------------|--------------------------|-------------------------------|----------------------|-------------|
| 2415.696        | H              | 105.4                | - 4.2                    | 101.2                         | 114.0                | - 12.8      |
| #4822.881       | H              | 40.0                 | 3.7                      | 43.7                          | 74.0                 | - 30.3      |
| #4824.005       | V              | 36.9                 | 3.7                      | 40.6                          | 74.0                 | - 33.4      |
| 2440.846        | H              | 109.4                | - 4.2                    | 105.2                         | 114.0                | - 8.8       |
| #4873.952       | V              | 37.1                 | 3.7                      | 40.8                          | 74.0                 | - 33.2      |
| #4874.362       | H              | 38.3                 | 3.7                      | 42.0                          | 74.0                 | - 32.0      |
| 2465.746        | H              | 111.0                | - 4.3                    | 106.7                         | 114.0                | - 7.3       |
| #4922.611       | H              | 42.2                 | 4.0                      | 46.2                          | 74.0                 | - 27.8      |
| #4924.050       | V              | 36.1                 | 4.0                      | 40.1                          | 74.0                 | - 33.9      |

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 C

#### Environmental conditions:

| Parameter            | Recorded value |     |
|----------------------|----------------|-----|
| Ambient temperature: | 26             | ° C |
| Relative humidity:   | 60             | %   |

Measurement: Average RBW: 1MHz VBW: 10Hz  
Testing frequency range: 9kHz to 25GHz Mode: 802.11g

| 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) |
|-----------------|----------------|----------------------|--------------------------|-------------------------------|----------------------|-------------|
| 2410.022        | H              | 45.8                 | - 4.2                    | 41.6                          | 94.0                 | - 52.4      |
| #4823.860       | H              | 24.0                 | 3.7                      | 27.7                          | 54.0                 | - 26.3      |
| #4823.938       | V              | 21.7                 | 3.7                      | 25.4                          | 54.0                 | - 28.6      |
| 2436.500        | H              | 46.5                 | - 4.2                    | 42.3                          | 94.0                 | - 51.7      |
| #4873.902       | H              | 22.4                 | 3.7                      | 26.1                          | 54.0                 | - 27.9      |
| #4873.918       | V              | 22.0                 | 3.7                      | 25.7                          | 54.0                 | - 28.3      |
| 2458.853        | H              | 47.1                 | - 4.3                    | 42.8                          | 94.0                 | - 51.2      |
| #4923.910       | H              | 23.9                 | 4.0                      | 27.9                          | 54.0                 | - 26.1      |
| #4923.960       | V              | 21.1                 | 4.0                      | 25.1                          | 54.0                 | - 28.9      |

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 C

Environmental conditions:

| Parameter            | Recorded value |     |
|----------------------|----------------|-----|
| Ambient temperature: | 26             | ° C |
| Relative humidity:   | 60             | %   |

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) |
|-----------------|----------------|----------------------|--------------------------------------|-------------------------------|----------------------|-------------|
| #252.018        | H              | 18.4                 | 15.4                                 | 33.8                          | 46.0                 | - 12.2      |
| 288.008         | H              | 17.9                 | 15.4                                 | 33.3                          | 46.0                 | - 12.7      |
| #324.006        | H              | 18.3                 | 16.8                                 | 35.1                          | 46.0                 | - 10.9      |
| 360.021         | H              | 16.9                 | 16.8                                 | 33.7                          | 46.0                 | - 12.3      |
| 396.007         | H              | 18.6                 | 16.8                                 | 35.4                          | 46.0                 | - 10.6      |
| 475.020         | H              | 19.4                 | 20.6                                 | 40.0                          | 46.0                 | - 6.0       |
| 504.016         | H              | 20.3                 | 22.2                                 | 42.5                          | 46.0                 | - 3.5       |

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: | 26             | ° C |
| Relative humidity:   | 60             | %   |

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) |
|-----------------|----------------|----------------------|--------------------------------------|-------------------------------|----------------------|-------------|
| #149.989        | H              | 13.5                 | 14.1                                 | 27.6                          | 43.5                 | - 15.9      |
| 200.004         | H              | 15.5                 | 12.0                                 | 27.5                          | 43.5                 | - 19.0      |
| #252.018        | H              | 15.6                 | 15.4                                 | 31.0                          | 46.0                 | - 15.0      |
| 288.010         | H              | 14.6                 | 15.4                                 | 30.0                          | 46.0                 | - 16.0      |
| 396.013         | H              | 18.2                 | 16.8                                 | 35.0                          | 46.0                 | - 11.0      |
| 425.013         | H              | 16.4                 | 20.0                                 | 36.4                          | 46.0                 | - 9.6       |
| 475.020         | H              | 21.8                 | 20.0                                 | 41.8                          | 46.0                 | - 4.2       |

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: | 26             | ° C |
| Relative humidity:   | 60             | %   |

Detector: Quasi-peak

RBW: 120kHz

VBW: 300kHz

Testing frequency range: 9kHz to 25GHz

Operation mode: Charging

| Frequency (MHz) | Polarity (H/V) | Reading at 3m (dB $\mu$ V) | Antenna Factor and Cable Loss (dB/m) | Field Strength at 3m (dB $\mu$ V/m) | Limit at 3m (dB $\mu$ V/m) | Margin (dB) |
|-----------------|----------------|----------------------------|--------------------------------------|-------------------------------------|----------------------------|-------------|
| 47.705          | H              | 6.7                        | 12.8                                 | 19.5                                | 40.0                       | - 20.5      |
| 93.860          | H              | 8.9                        | 10.1                                 | 19.0                                | 43.5                       | - 24.5      |
| 152.686         | H              | 6.9                        | 14.1                                 | 21.0                                | 43.5                       | - 22.5      |
| 217.130         | H              | 8.3                        | 11.8                                 | 20.1                                | 43.5                       | - 23.4      |
| #252.145        | H              | 8.4                        | 15.4                                 | 23.8                                | 46.0                       | - 22.2      |
| 295.832         | H              | 9.3                        | 15.4                                 | 24.7                                | 46.0                       | - 21.3      |
| #332.549        | H              | 9.2                        | 16.8                                 | 26.0                                | 46.0                       | - 20.0      |

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



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### 2.4 Data of Conducted Emission

Environmental conditions:

| Parameter            | Recorded value |     |
|----------------------|----------------|-----|
| Ambient temperature: | 26             | ° C |
| Relative humidity:   | 60             | %   |

Measurement: Peak RBW: 1MHz VBW: 3MHz

Mode: 802.11b

| Frequency (MHz) | Reading (dBm) | Reading (mW) | Limit (mW) | Margin (mW) |
|-----------------|---------------|--------------|------------|-------------|
| 2413.359        | 2.71          | 1.866        | 1000.0     | - 998.134   |
| 2437.060        | 1.91          | 1.552        | 1000.0     | - 998.448   |
| 2462.060        | 1.45          | 1.396        | 1000.0     | - 998.604   |

Mode: 802.11g

|          |      |       |        |           |
|----------|------|-------|--------|-----------|
| 2415.746 | 2.02 | 1.592 | 1000.0 | - 998.408 |
| 2440.546 | 1.26 | 1.337 | 1000.0 | - 998.663 |
| 2465.896 | 0.98 | 1.253 | 1000.0 | - 998.747 |



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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

The EUT connected to an adaptor for charging

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

The plots in Appendices A6 show the graph and data of conducted emission.



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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 2ACS611TX TSup.pdf.

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

For electronic filing, the photos are saved with filename 2ACS611TX ExPho.pdf and 2ACS611TX 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 band edge is fulfil 15.205 restricted band, 15.247(d) requirement.

The plot in Appendices A8 shows the 6dB bandwidth has minimum 500kHz for frequency channel 2412MHz, 2437MHz and 2462MHz. It fulfils the section 15.247(a)(2) requirement.

#### 5.2 Power Spectral Density

The plot in Appendices A9 shows the frequency channel 2412MHz, 2437MHz and 2462MHz were not excess 8dBm for 3kHz bandwidth. It fulfils the section 15.247(e) requirement.

#### 5.3 Antenna requirement

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



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### 6 Appendices

|     |                                             |   |       |
|-----|---------------------------------------------|---|-------|
| A1  | Photos of the set-up of Radiated Emissions  | 4 | pages |
| A2  | Photos of the set-up of Conducted Emissions | 2 | pages |
| A3  | Photos of External Configurations           | 2 | pages |
| A4  | Photos of Internal Configurations           | 3 | pages |
| A5  | ID Label/Location                           | 1 | page  |
| A6  | Conducted Emission Measurement Data         | 2 | pages |
| A7  | Band Edge                                   | 4 | pages |
| A8  | 6dB Bandwidth Plot                          | 4 | pages |
| A9  | Power Spectral Density                      | 4 | pages |
| A10 | Transmission Power                          | 4 | pages |



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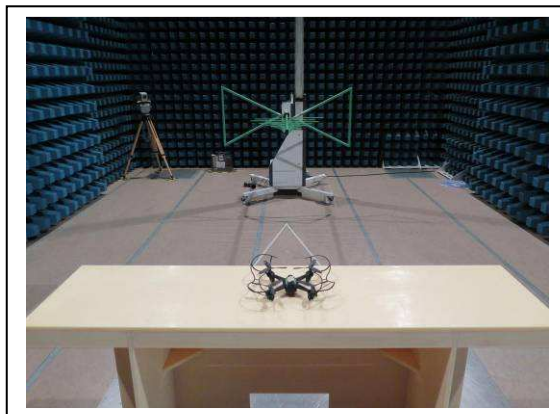
廠商會檢定中心

## TEST REPORT

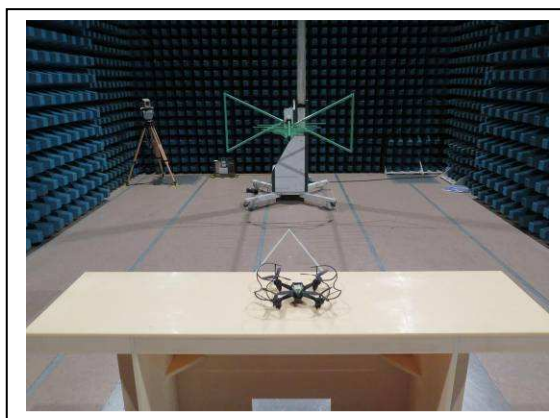
Report No. : AU0030246(4)

Date : 30 May 2016

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



(Front view, 30Hz – 1GHz)



(Back view, 30MHz – 1GHz)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



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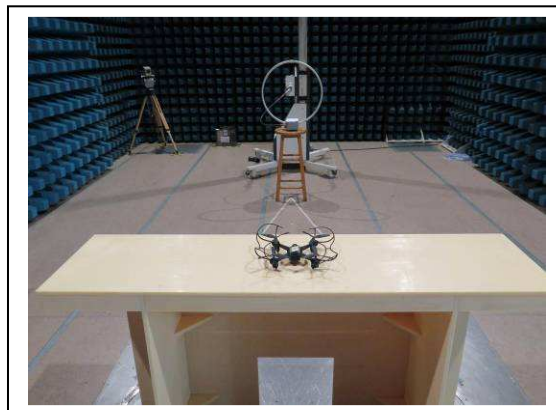
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## TEST REPORT

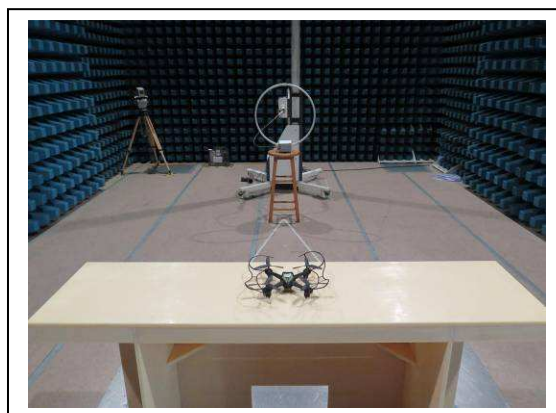
Report No. : AU0030246(4)

Date : 30 May 2016

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



(Front view, 9kHz – 30MHz)



(Back view, 9kHz – 30MHz)

Tested by:

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Reviewed by:

Mr. WONG Lap-pong, Andrew



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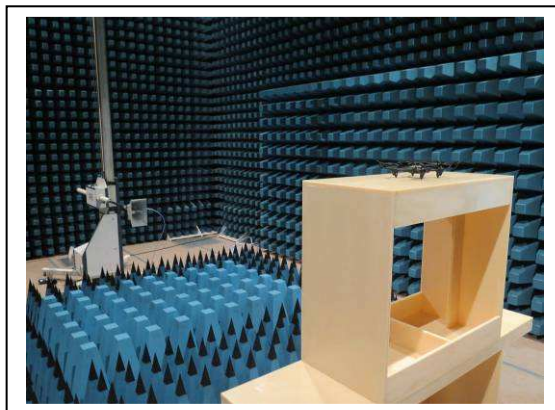
廠商會檢定中心

## TEST REPORT

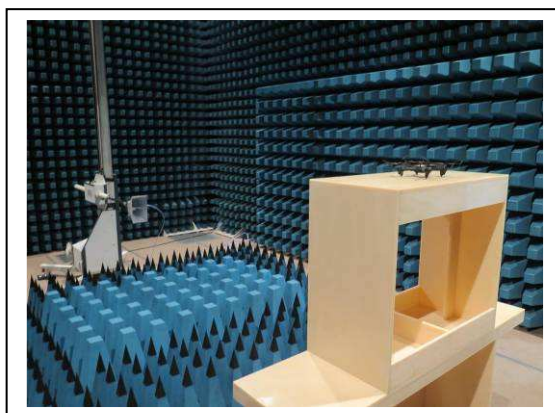
Report No. : AU0030246(4)

Date : 30 May 2016

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



(Front view, above 1GHz)



(Back view, above 1GHz)

Tested by:

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Reviewed by:

Mr. WONG Lap-pong, Andrew



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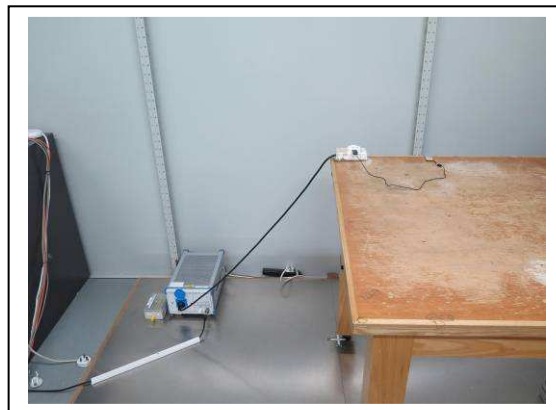
廠商會檢定中心

## TEST REPORT

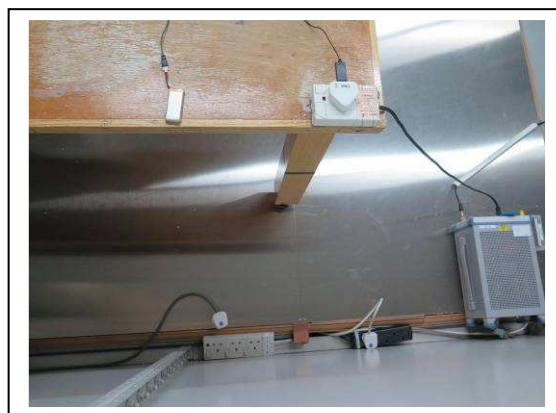
Report No. : AU0030246(4)

Date : 30 May 2016

### A2. Photos of the set-up of Conducted Emissions



(Front view)



(Back view)

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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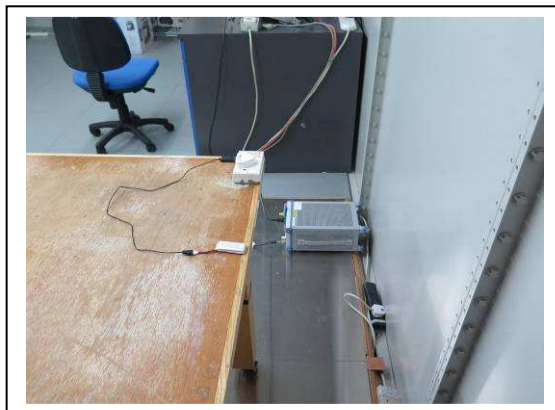
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## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A2. Photos of the set-up of Conducted Emissions



(Side view)

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A3 Photos of External Configurations



External Configuration 1



External Configuration 2

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A3 Photos of External Configurations



External Configuration 3

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



# CMA Testing and Certification Laboratories

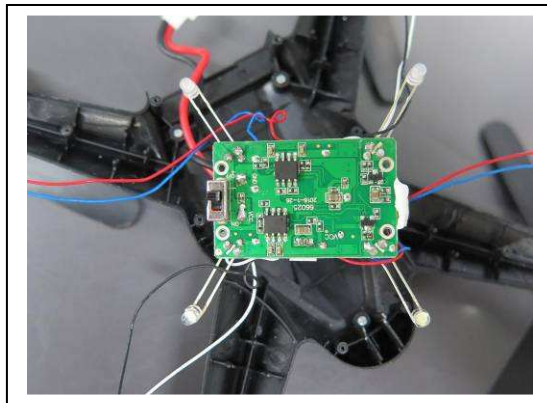
廠商會檢定中心

## TEST REPORT

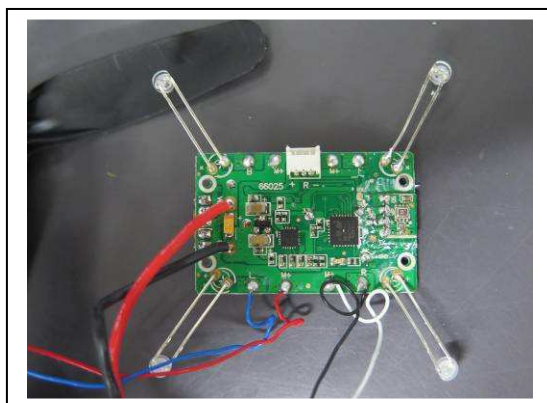
Report No. : AU0030246(4)

Date : 30 May 2016

### A4 Photos of Internal Configurations



Internal Configuration 1



Internal Configuration 2

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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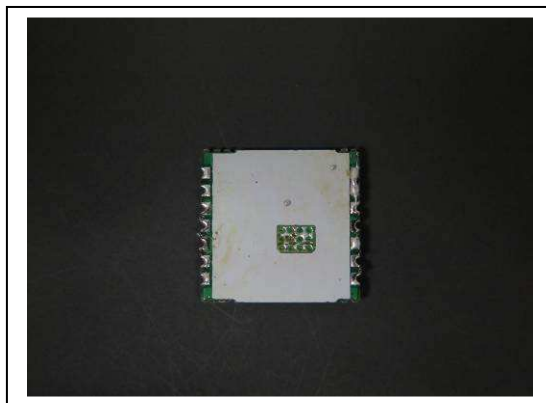
Report No. : AU0030246(4)

Date : 30 May 2016

### A4 Photos of Internal Configurations



Internal Configuration 3



Internal Configuration 4

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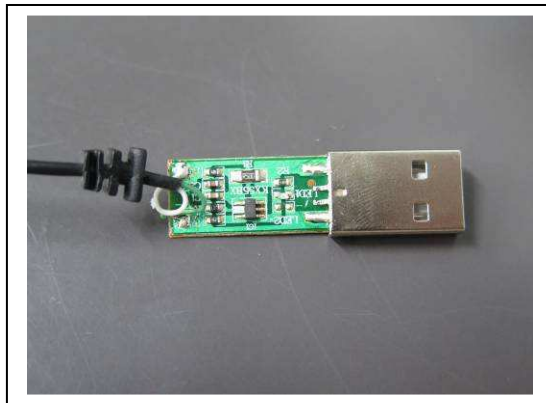
廠商會檢定中心

## TEST REPORT

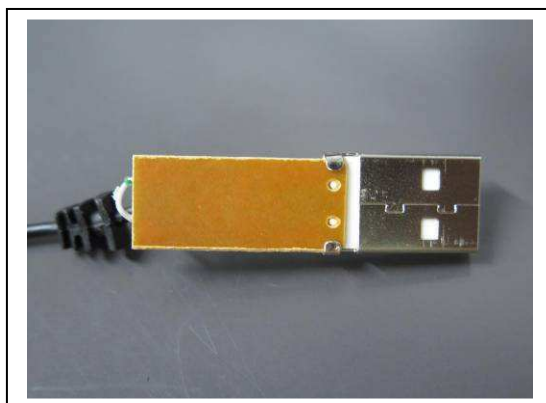
Report No. : AU0030246(4)

Date : 30 May 2016

### A4 Photos of Internal Configurations



Internal Configuration 5



Internal Configuration 6

Tested by:

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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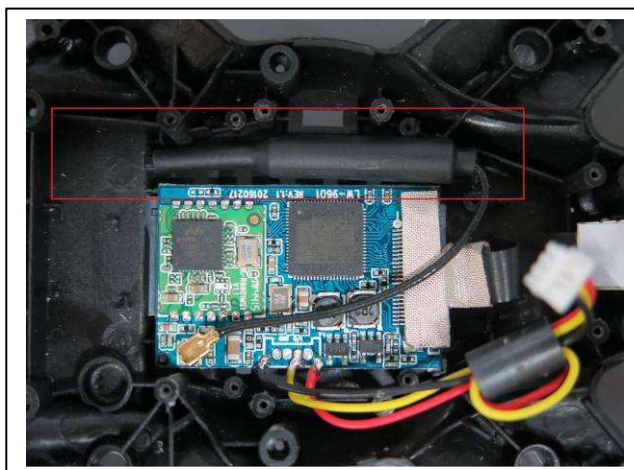
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## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A4 Photos of Internal Configurations



EUT Antenna

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Reviewed by:

Mr. WONG Lap-pong, Andrew



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## TEST REPORT

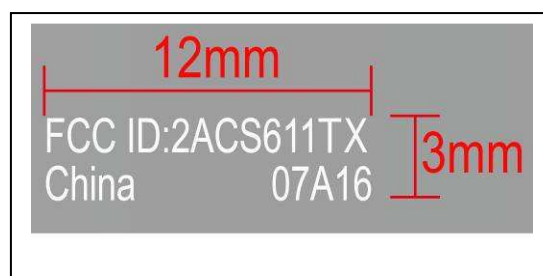
Report No. : AU0030246(4)

Date : 30 May 2016

### A5 ID Label / Location



ID Label 1



ID Label2

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Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2ACS611TX



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## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

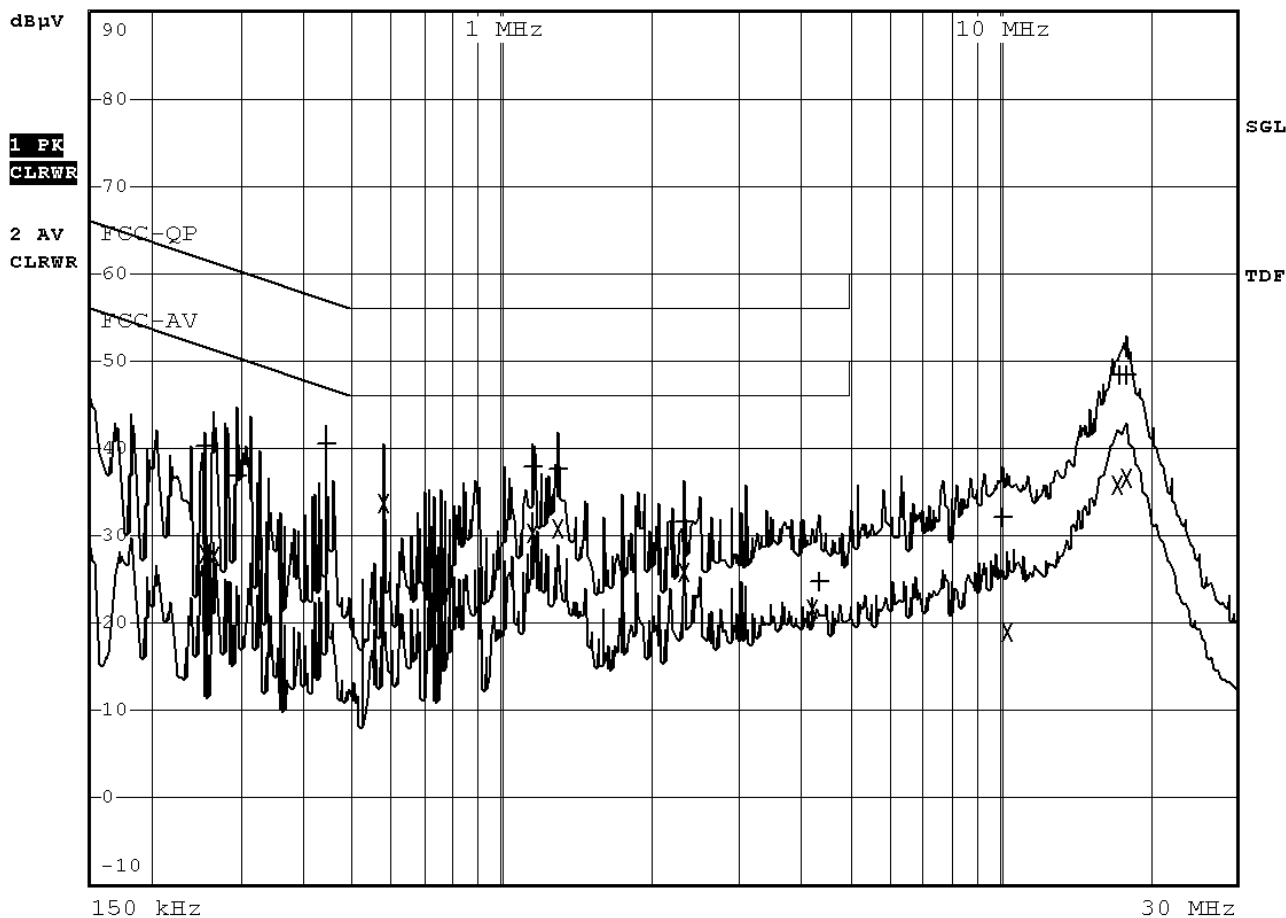
### A6 Conducted Emission Measurement Date



RBW 9 kHz

MT 1 s

Att 10 dB AUTO PREAMP OFF



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Reviewed by:

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# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A6 Conducted Emission Measurement Date

| EDIT PEAK LIST (Final Measurement Results) |             |            |        |                |
|--------------------------------------------|-------------|------------|--------|----------------|
| Trace1:                                    | FCC-QP      |            |        |                |
| Trace2:                                    | FCC-AV      |            |        |                |
| Trace3:                                    | ---         |            |        |                |
| TRACE                                      | FREQUENCY   | LEVEL dBμV |        | DELTA LIMIT dB |
| 1 Quasi Peak                               | 253.5 kHz   | 40.28      | N gnd  | -21.35         |
| 2 Average                                  | 253.5 kHz   | 28.03      | N gnd  | -23.61         |
| 2 Average                                  | 267 kHz     | 27.57      | N gnd  | -23.63         |
| 1 Quasi Peak                               | 294 kHz     | 36.80      | N gnd  | -23.60         |
| 1 Quasi Peak                               | 447 kHz     | 40.51      | N gnd  | -16.41         |
| 2 Average                                  | 576.5 kHz   | 33.68      | N gnd  | -12.31         |
| 1 Quasi Peak                               | 1.157 MHz   | 37.83      | L1 gnd | -18.16         |
| 2 Average                                  | 1.157 MHz   | 30.33      | N gnd  | -15.67         |
| 1 Quasi Peak                               | 1.292 MHz   | 37.75      | N gnd  | -18.24         |
| 2 Average                                  | 1.292 MHz   | 30.89      | N gnd  | -15.10         |
| 1 Quasi Peak                               | 2.3225 MHz  | 31.57      | L1 gnd | -24.42         |
| 2 Average                                  | 2.3225 MHz  | 25.77      | N gnd  | -20.22         |
| 2 Average                                  | 4.226 MHz   | 21.63      | N gnd  | -24.36         |
| 1 Quasi Peak                               | 4.343 MHz   | 24.89      | L1 gnd | -31.10         |
| 1 Quasi Peak                               | 10.1435 MHz | 32.13      | N gnd  | -27.86         |
| 2 Average                                  | 10.382 MHz  | 19.11      | L1 gnd | -30.88         |
| 2 Average                                  | 17.321 MHz  | 35.78      | N gnd  | -14.21         |
| 1 Quasi Peak                               | 17.519 MHz  | 48.50      | N gnd  | -11.49         |
| 1 Quasi Peak                               | 18.05 MHz   | 48.34      | N gnd  | -11.65         |
| 2 Average                                  | 18.077 MHz  | 36.50      | N gnd  | -13.49         |

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew



# CMA Testing and Certification Laboratories

廠商會檢定中心

## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A7. Band Edge



802.11b lower edge (Peak measurement)



802.11b lower edge (Average measurement)

Tested by:

*Ken*

Mr. LEUNG Shu-kan, Ken

Reviewed by:

*PR*

Mr. WONG Lap-pong, Andrew

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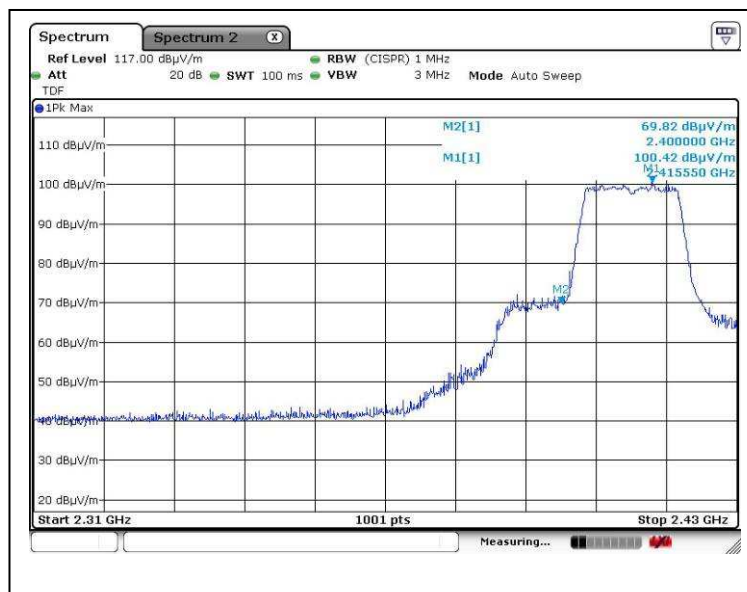
廠商會檢定中心

## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A7. Band Edge



802.11g lower edge (Peak measurement)



802.11g lower edge (Average measurement)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A7. Band Edge



802.11b higher edge (Peak measurement)



802.11b higher edge (Average measurement)

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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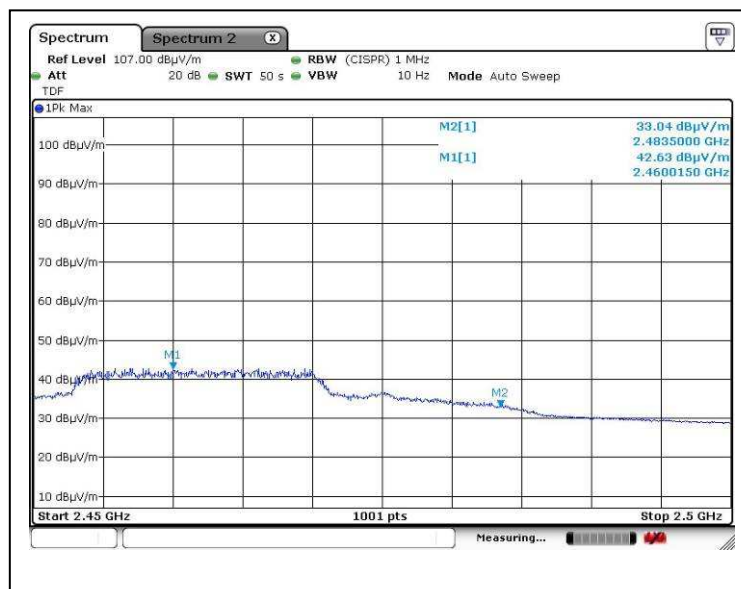
Report No. : AU0030246(4)

Date : 30 May 2016

### A7. Band Edge



802.11g higher edge (Peak measurement)



802.11g higher edge (Average measurement)

Tested by:

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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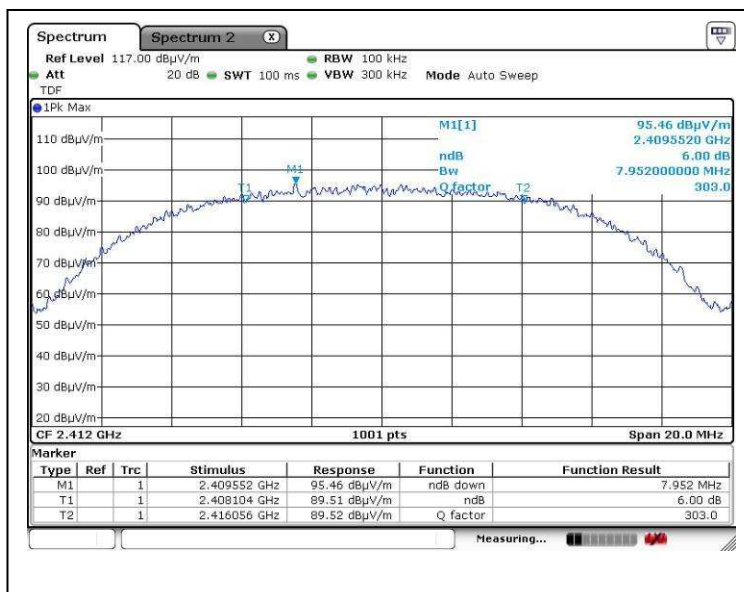
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## TEST REPORT

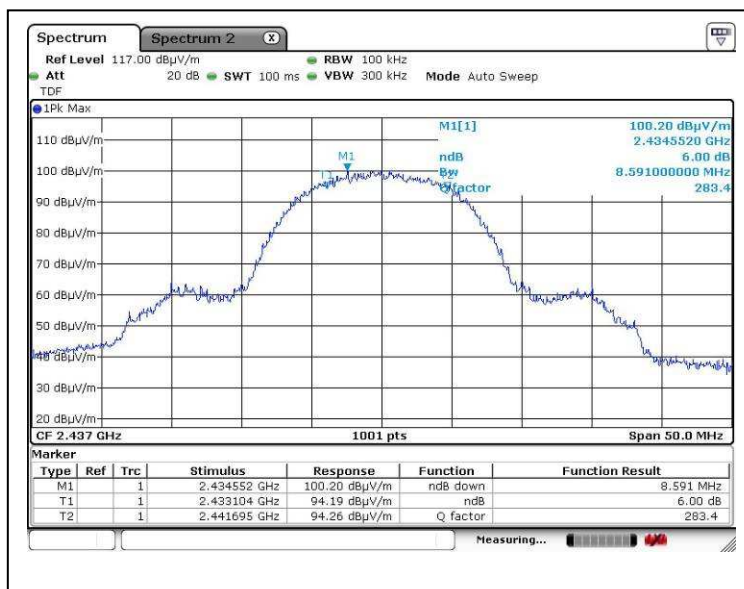
Report No. : AU0030246(4)

Date : 30 May 2016

### A8. 6dB Bandwidth Plot



802.11b CH1



802.11b CH6

Tested by:

*Ken*

Mr. LEUNG Shu-kan, Ken

Reviewed by:

*PR*

Mr. WONG Lap-pong, Andrew

FCC ID: 2ACS611TX

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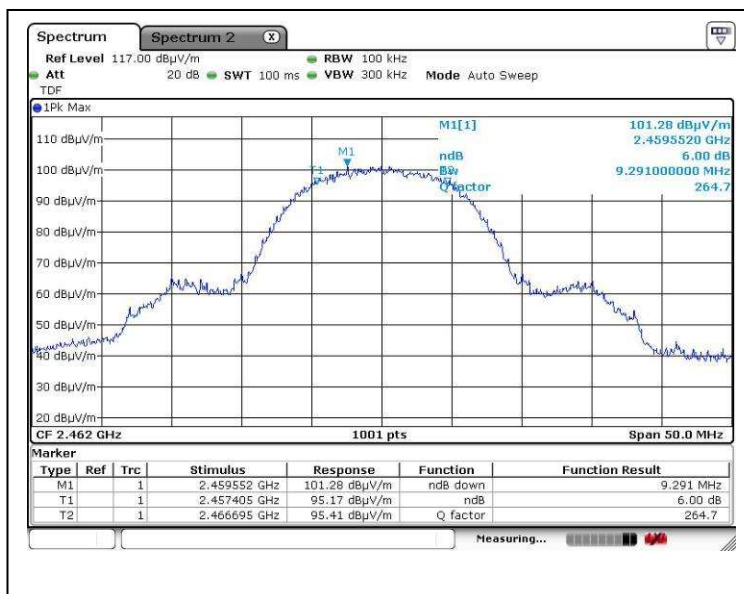
廠商會檢定中心

## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A8. 6dB Bandwidth Plot



802.11b CH11

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Reviewed by:

Mr. WONG Lap-pong, Andrew

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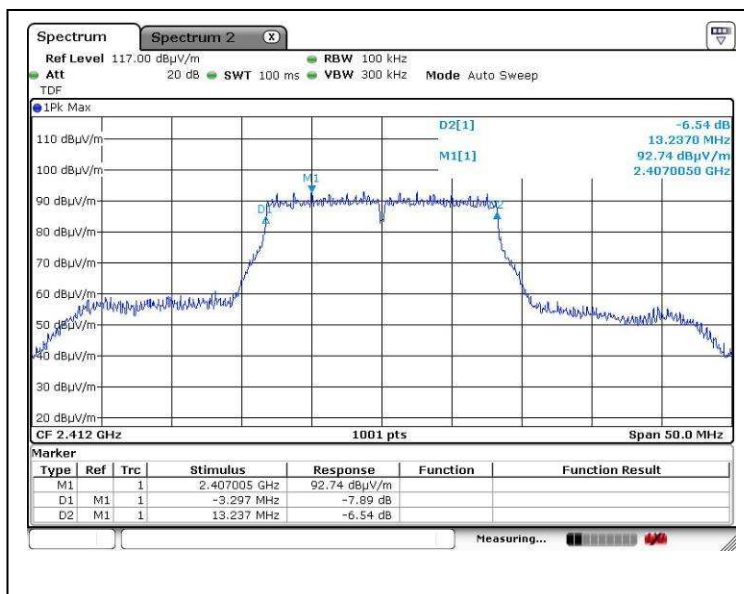
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## TEST REPORT

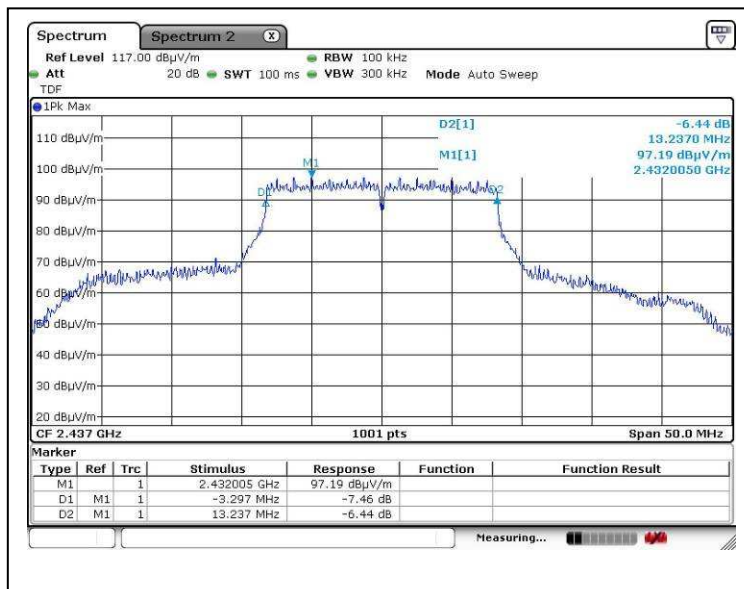
Report No. : AU0030246(4)

Date : 30 May 2016

### A8. 6dB Bandwidth Plot



802.11g CH1



802.11g CH6

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2ACS611TX

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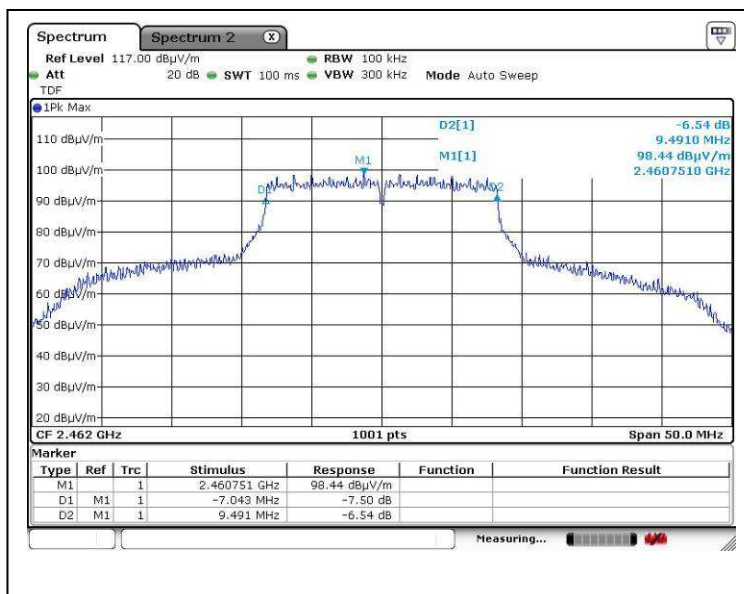
廠商會檢定中心

## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A8. 6dB Bandwidth Plot



802.11g CH11

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

FCC ID: 2ACS611TX

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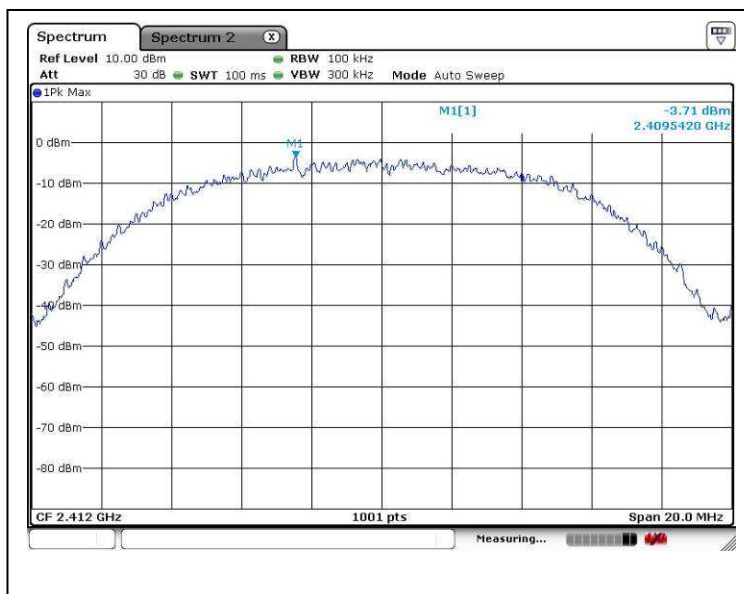
廠商會檢定中心

## TEST REPORT

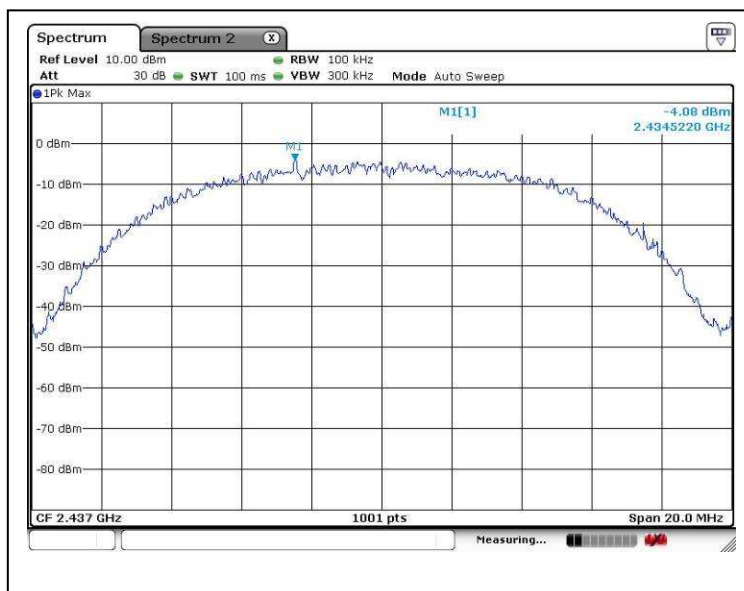
Report No. : AU0030246(4)

Date : 30 May 2016

### A9. Power Spectral Density



802.11b CH1



802.11b CH6

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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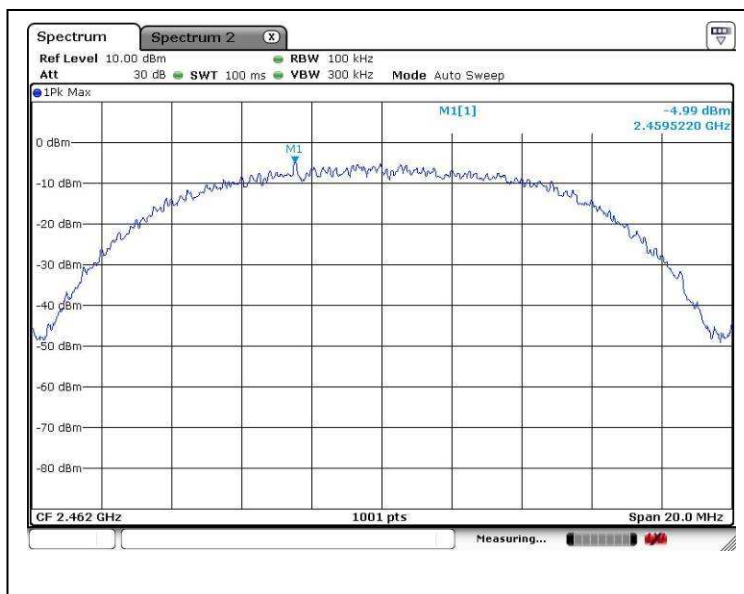
廠商會檢定中心

## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A9. Power Spectral Density



802.11b CH11

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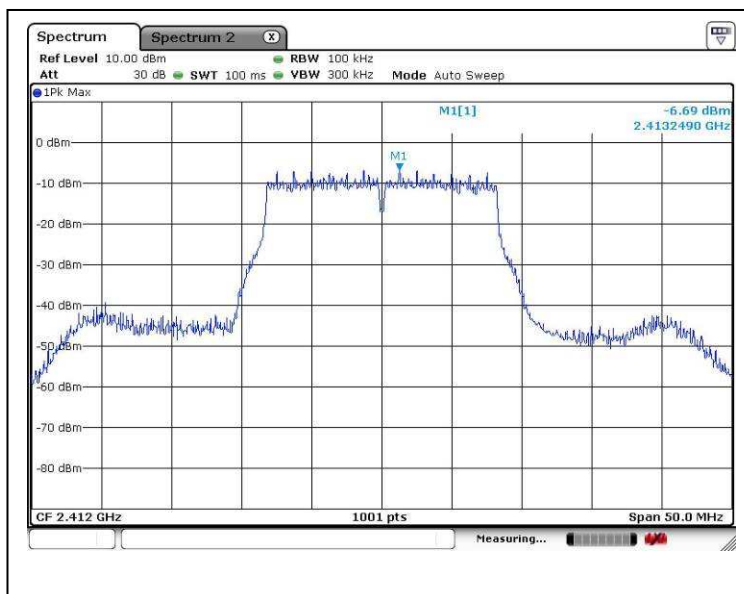
廠商會檢定中心

## TEST REPORT

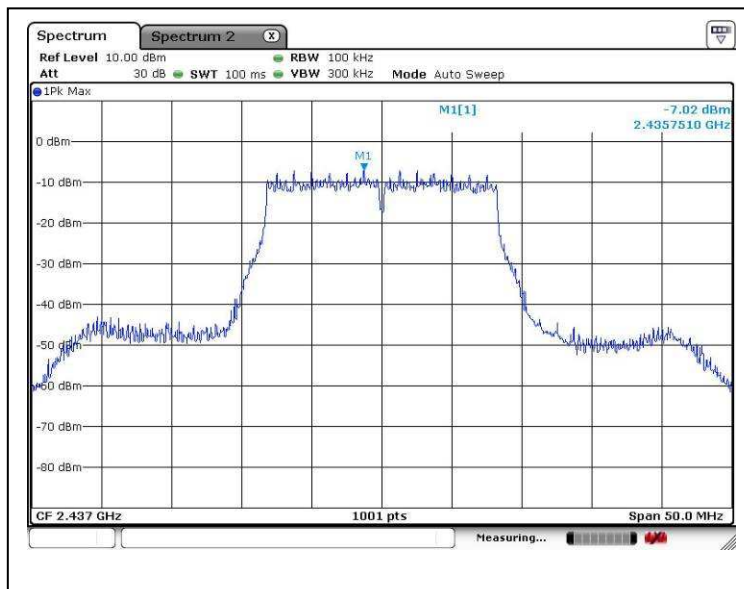
Report No. : AU0030246(4)

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### A9. Power Spectral Density



802.11g CH1



802.11g CH6

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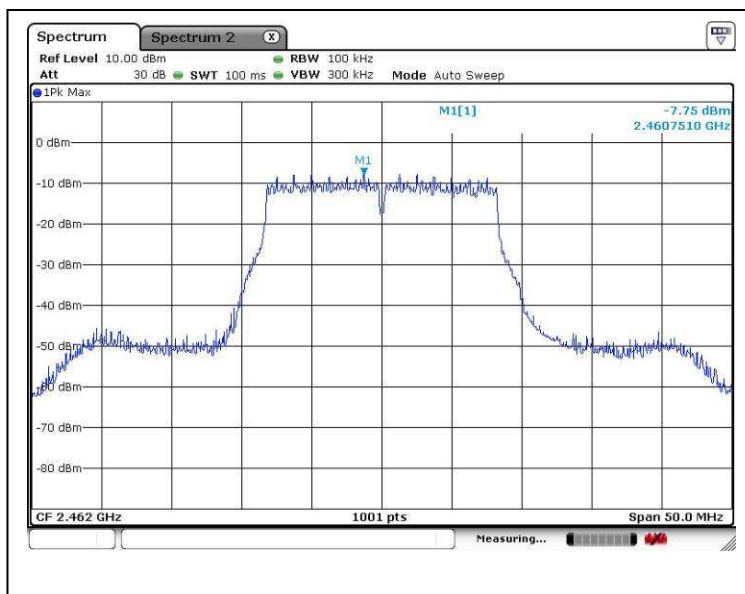
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## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A9. Power Spectral Density



802.11g CH11

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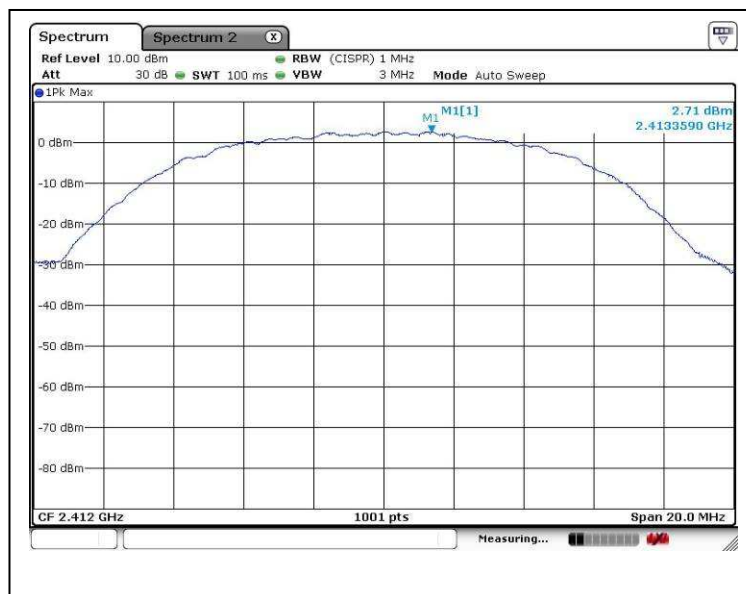
廠商會檢定中心

## TEST REPORT

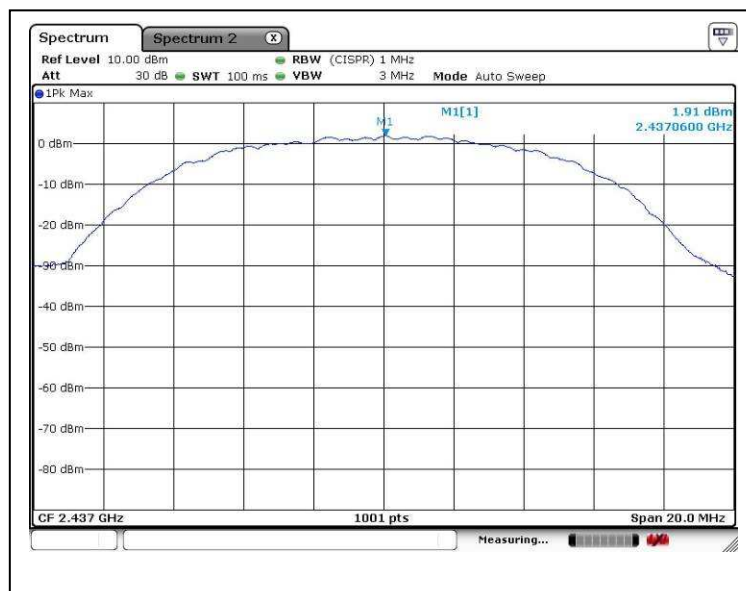
Report No. : AU0030246(4)

Date : 30 May 2016

### A10. Transmission Power



802.11b CH1



802.11b CH6

Tested by:

Mr. LEUNG Shu-kan, Ken

Reviewed by:

Mr. WONG Lap-pong, Andrew

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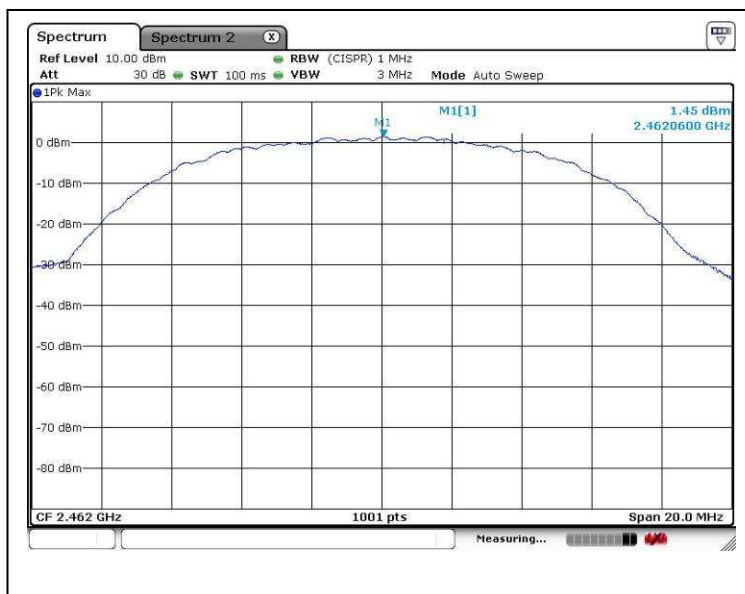
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## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A10. Transmission Power



802.11b CH11

Tested by:

Mr. LEUNG Shu-kan, Ken

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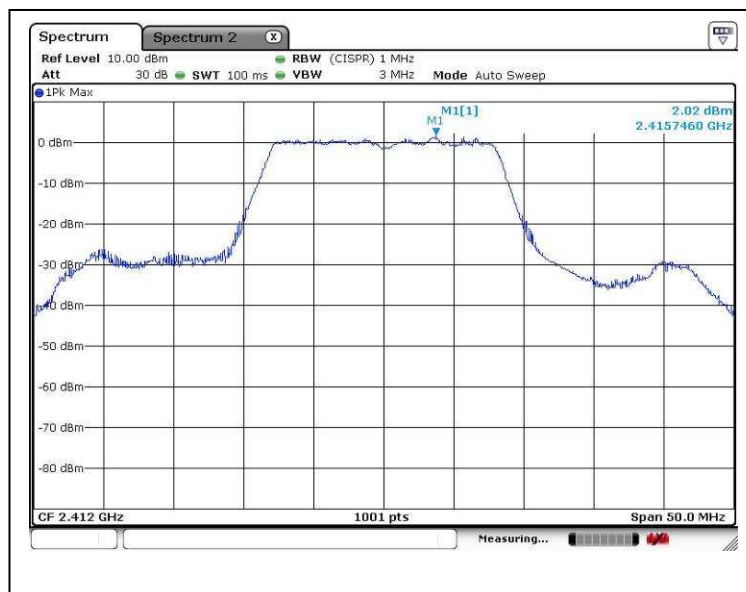
廠商會檢定中心

## TEST REPORT

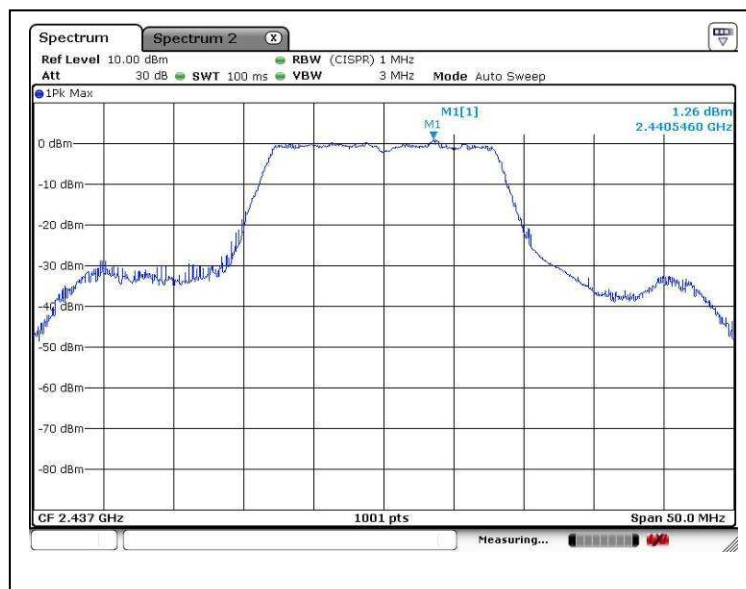
Report No. : AU0030246(4)

Date : 30 May 2016

### A10. Transmission Power



802.11g CH1



802.11g CH6

Tested by:

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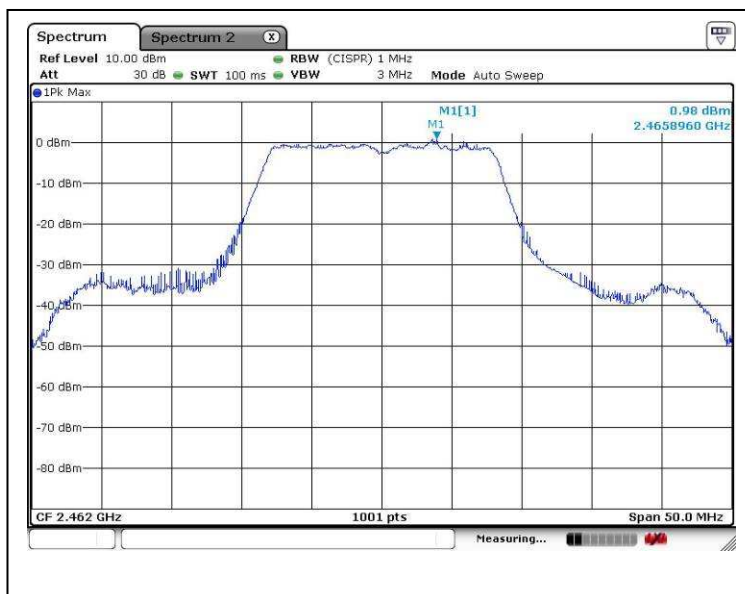
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## TEST REPORT

Report No. : AU0030246(4)

Date : 30 May 2016

### A10. Transmission Power



802.11g CH11

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

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