



# TEST REPORT

**FCC ID: 2AEY2-GD100L**

**For**  
**Shenzhen YSX Eletronics Co.,Ltd.**

**Camera**

Model No. : GD100L, GD100O, GD200M

Trade Name : N/A

Prepared for : Shenzhen YSX Eletronics Co.,Ltd.  
Address : 18FL,Block B,BLD 6,Baoneng Technology Park, Qingxiang Road,Longhua District, Shenzhen

Prepared by : Shenzhen Alpha Product Testing Co., Ltd.  
Address : Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road, Bao'an, Shenzhen, China

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## DECLARATION

Applicant : Shenzhen YSX Eletronics Co.,Ltd.  
Manufacturer : Shenzhen YSX Eletronics Co.,Ltd.  
Product : Camera  
(A) Model No. : GD100L, GD100O, GD200M  
(B) Trade Name : N/A  
(C) Power supply : DC 5V From Adapter with AC 120V/60Hz

Measurement Standard Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247: 2015,  
ANSI C63.4:2014**

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Reak Yang  
Test Engineer

.....*Reak Yang*.....

Approved by (name + signature).....: Simple Guan  
Project Manager

.....*Simple Guan*.....

Date of issue.....

January 06, 2016

# 1 General Information

## 1.1 Description of Device (EUT)

|                     |                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Trade Name          | : N/A                                                                                                                                     |
| EUT                 | : Camera                                                                                                                                  |
| Model No.           | GD100L, GD100O, GD200M                                                                                                                    |
| DIFF                | : There is no difference between all the models, except the pixels and night vision function, so this report performs the model GD100L.   |
| Antenna Type        | : Integrated Antenna, Maximum Gain 0dBi for WLAN                                                                                          |
| Operation Frequency | IEEE 802.11b/g: 2412MHz-2462MHz<br>IEEE 802.11n HT20: 2412MHz-2462MHz<br>IEEE 802.11n HT40: 2422MHz-2452MHz<br>IEEE 802.11b/g: 11Channels |
| Channel number      | IEEE 802.11n HT20: 11 Channels<br>IEEE 802.11n HT40: 7Channels<br>IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)                                     |
| Modulation type     | IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n :OFDM(64QAM, 16QAM, QPSK, BPSK)                                              |
| Power Supply        | : DC 5V From Adapter with AC 120V/60Hz                                                                                                    |
| Software version    | N/A                                                                                                                                       |
| Hardware version    | A1                                                                                                                                        |
| Applicant           | : Shenzhen YSX Eletronics Co.,Ltd.                                                                                                        |
| Address             | : 18FL,Block B,BLD 6,Baoneng Technology Park, Qingxiang Road,Longhua District, Shenzhen                                                   |
| Manufacture         | : Shenzhen YSX Eletronics Co.,Ltd.                                                                                                        |
| Address             | : 18FL,Block B,BLD 6,Baoneng Technology Park, Qingxiang Road,Longhua District, Shenzhen                                                   |

Adapter: Input: AC 100-240V,50/60Hz  
Output: DC 5V, 1.5A

## 1.2 Description of Test Facility

Shenzhen Alpha Product Testing Co., Ltd  
Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road,  
Bao'an, Shenzhen, China

March 25, 2015 File on Federal Communication Commission  
Registration Number: 203110

July 18, 2014 Certificated by IC  
Registration Number: 12135A

## 2 EMC Equipment List

| Equipment              | Manufacture  | Model No.               | Serial No.        | Last cal.  | Cal Interval |
|------------------------|--------------|-------------------------|-------------------|------------|--------------|
| 3m Semi-Anechoic       | ETS-LINDGREN | N/A                     | SEL0017           | 2015.01.19 | 1Year        |
| Spectrum analyzer      | Agilent      | E4407B                  | MY46185649        | 2015.01.19 | 1Year        |
| Receiver               | R&S          | ESCI                    | 1166.5950K03-1011 | 2015.01.19 | 1Year        |
| Receiver               | R&S          | ESCI                    | 101202            | 2015.01.19 | 1Year        |
| Bilog Antenna          | Schwarzbeck  | VULB 9168               | VULB9168-438      | 2015.01.21 | 1Year        |
| Horn Antenna           | EMCO         | 3115                    | 640201028-06      | 2015.01.21 | 1Year        |
| Active Loop Antenna    | Beijing Daze | ZN30900A                | SEL0097           | 2015.01.21 | 1Year        |
| Cable                  | Resenberger  | N/A                     | No.1              | 2015.01.19 | 1Year        |
| Cable                  | SCHWARZBECK  | N/A                     | No.2              | 2015.01.19 | 1Year        |
| Cable                  | SCHWARZBECK  | N/A                     | No.3              | 2015.01.19 | 1Year        |
| Pre-amplifier          | Schwarzbeck  | BBV9743                 | 9743-019          | 2015.01.19 | 1Year        |
| Pre-amplifier          | R&S          | AFS33-18002650-30-8P-44 | SEL0080           | 2015.01.19 | 1Year        |
| Base station           | Agilent      | E5515C                  | GB44300243        | 2015.01.19 | 1 Year       |
| Temperature controller | Terchy       | MHQ                     | 120               | 2015.01.19 | 1Year        |

|                  |               |          |            |            |        |
|------------------|---------------|----------|------------|------------|--------|
| Power divider    | Anritsu       | K240C    | 020346     | 2015.01.19 | 1 Year |
| Signal Generator | HP            | 83732B   | VS3449051  | 2015.01.19 | 1 Year |
| Power Meter      | Anritsu       | ML2487A  | 6K00001491 | 2015.01.19 | 1Year  |
| Power sensor     | Anritsu       | ML2491A  | 32516      | 2015.01.19 | 1Year  |
| L.I.S.N.#1       | Schwarzbeck   | NSLK8126 | 8126466    | 2015.01.20 | 1 Year |
| L.I.S.N.#2       | ROHDE&SCHWARZ | ENV216   | 101043     | 2015.01.20 | 1 Year |

### 3 Test Procedure

**POWER LINE CONDUCTED INTERFERENCE:** The test procedure used was ANSI Standard ANSI C63.4:2014 using a 50 u H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25°C with a humidity of 58%.

**RADIATION INTERFERENCE:** The test procedure used was ANSI Standard ANSI C63.4:2014 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3MHz above 1 GHz. The ambient temperature of the EUT was 25°C with a humidity of 58%.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS

33.20 dBuV + 10.36 dB + 0.9 dB= 44.46 dBuV/m @ 3m

ANSI STANDARD ANSI C63.4:2014 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard ANSI C63.4:2014 10.1.7 with the EUT 40 cm from the vertical ground wall.

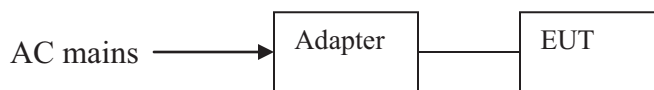
## 4 Summary of Measurement

### 4.1 Summary of test result

| Test Item           | Test Requirement | Standards Paragraph           | Result     |
|---------------------|------------------|-------------------------------|------------|
| Spurious Emission   | FCC PART 15:2015 | Section 15.247&15.209         | Compliance |
| Conduction Emission | FCC PART 15:2015 | Section 15.207                | Compliance |
| Bandwidth Test      | FCC PART 15:2015 | Section 15.247                | Compliance |
| Peak Power          | FCC PART 15:2015 | Section 15.247                | Compliance |
| Power Density       | FCC PART 15:2015 | Section 15.247                | Compliance |
| Band Edge           | FCC PART 15:2015 | Section 15.247<br>Section 5.5 | Compliance |
| Antenna Requirement | FCC PART 15:2015 | Section 15.203                | Compliance |

Note: The EUT has been tested as an independent unit. And Continual Transmitting in maximum power (The adapter be used during Test)

### 4.2 Test connection



### 4.3 Assistant equipment used for test

|              |   |              |
|--------------|---|--------------|
| Description  | : | Adapter      |
| Manufacturer | : | Kempower     |
| Model No.    | : | CSC-U0501500 |

|              |   |        |
|--------------|---|--------|
| Description2 | : | iphone |
| Manufacturer | : | Apple  |
| Model No.    | : | A1429  |

### 4.4 Test mode

| Dutycycle :100%<br>Keeping TX   |                               |             |                    |
|---------------------------------|-------------------------------|-------------|--------------------|
| Mode                            | data rate<br>(Mbps)(see Note) | Channel     | Frequency<br>(MHz) |
| IEEE 802.11b                    | 1                             | Low :CH1    | 2412               |
|                                 | 1                             | Middle: CH6 | 2437               |
|                                 | 1                             | High: CH11  | 2462               |
| IEEE 802.11g                    | 6                             | Low :CH1    | 2412               |
|                                 | 6                             | Middle: CH6 | 2437               |
|                                 | 6                             | High: CH11  | 2462               |
| IEEE 802.11<br>n/HT20 with 2.4G | 6.5                           | Low :CH1    | 2412               |
|                                 | 6.5                           | Middle: CH6 | 2437               |
|                                 | 6.5                           | High: CH11  | 2462               |
| IEEE 802.11<br>n/HT40 with 2.4G | 13.5                          | Low :CH3    | 2422               |
|                                 | 13.5                          | Middle:CH6  | 2437               |
|                                 | 13.5                          | High:CH9    | 2452               |

### 4.5 Channel list

| For IEEE 802.11b/g and IEEE 802.11n/HT20 with 2.4G |                    |         |                    |         |                    |
|----------------------------------------------------|--------------------|---------|--------------------|---------|--------------------|
| Channel                                            | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
| CH1                                                | 2412               | CH5     | 2432               | CH9     | 2452               |
| CH2                                                | 2417               | CH6     | 2437               | CH10    | 2457               |
| CH3                                                | 2422               | CH7     | 2442               | CH11    | 2462               |
| CH4                                                | 2427               | CH8     | 2447               |         |                    |

| For IEEE 802.11n/HT40 with 2.4G |                 |         |                 |         |                 |
|---------------------------------|-----------------|---------|-----------------|---------|-----------------|
| Channel                         | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| CH1                             | /               | CH5     | 2432            | CH9     | 2452            |
| CH2                             | /               | CH6     | 2437            | /       | /               |
| CH3                             | 2422            | CH7     | 2442            | /       | /               |
| CH4                             | 2427            | CH8     | 2447            | /       | /               |

#### 4.6 Test Conditions

|                   |           |
|-------------------|-----------|
| Temperature range | 21-25°C   |
| Humidity range    | 40-75%    |
| Pressure range    | 86-106kPa |

#### 4.7 Measurement Uncertainty (95% confidence levels, k=2)

| Item                                                                  | MU                 | Remark      |
|-----------------------------------------------------------------------|--------------------|-------------|
| Uncertainty for Power point Conducted Emissions Test                  | 2.42dB             |             |
| Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)   | 2.13 dB            | Polarize: V |
|                                                                       | 2.57dB             | Polarize: H |
| Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz) | 3.54dB             | Polarize: V |
|                                                                       | 4.1dB              | Polarize: H |
| Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz) | 2.08dB             | Polarize: H |
|                                                                       | 2.56dB             | Polarize: V |
| Uncertainty for radio frequency                                       | $1 \times 10^{-9}$ |             |
| Uncertainty for conducted RF Power                                    | 0.65dB             |             |
| Uncertainty for temperature                                           | 0.2°C              |             |
| Uncertainty for humidity                                              | 1%                 |             |
| Uncertainty for DC and low frequency voltages                         | 0.06%              |             |

## 5 Spurious Emission

### 5.1 Radiation Emission

#### 5.1.1 Radiation Emission Limits(15.209)

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

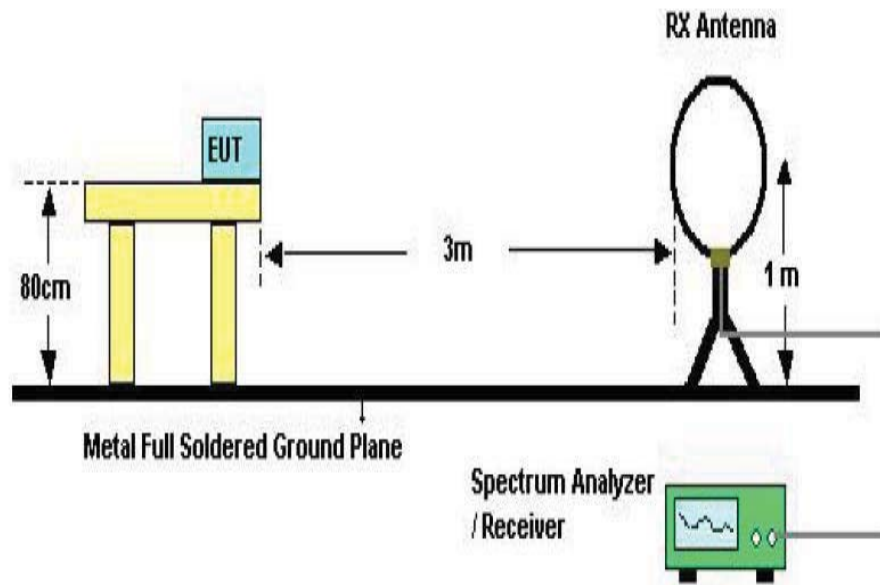
Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

**NOTE:**

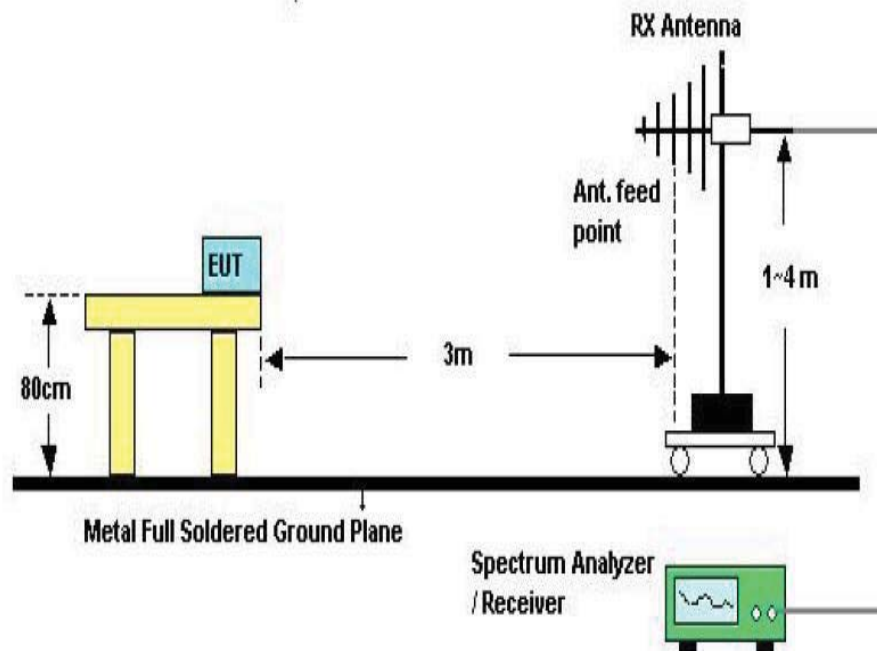
- The tighter limit applies at the band edges.
- Emission Level(dB uV/m)=20log Emission Level(uv/m)

#### 5.1.2 Test Setup

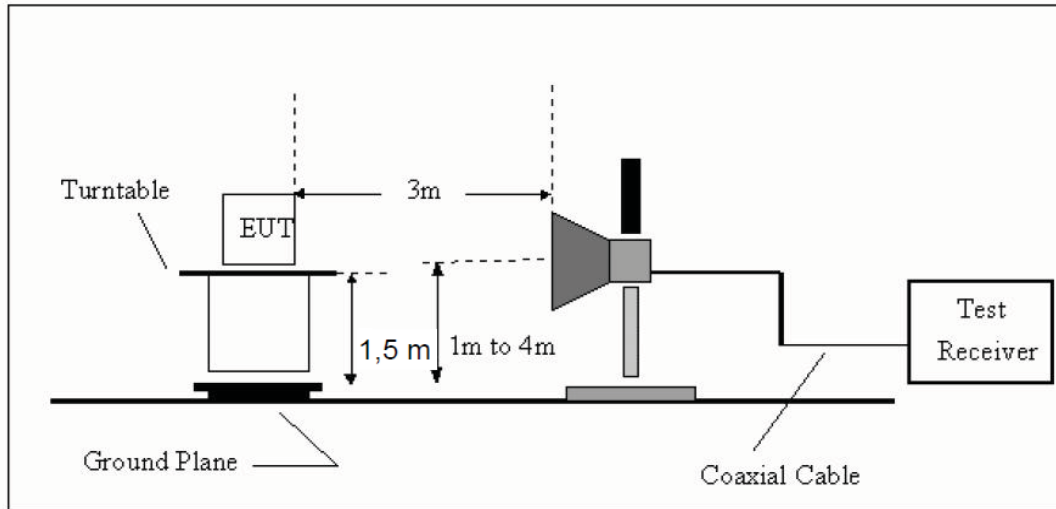
See the next page



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

### 5.1.3 Test Procedure

- The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz, The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above1GHz testing, The table was rotated 360 degrees to determine the position of the highest radiation
- The Test antenna shall vary between 1m and 4m,Both Horizontal and Vertical antenna are set of make measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Qusia Peak Detector mode premeasured
- If Peak value comply with QP limit Below 1GHz.The EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
- For the actual test configuration, please see the test setup photo.

### 5.1.4 Test Equipment Setting For emission test Result

|              |            |            |
|--------------|------------|------------|
| 9KHz~150KHz  | RBW 200Hz  | VBW1KHz    |
| 150KHz~30MHz | RBW 9KHz   | VBW 30KHz  |
| 30MHz~1GHz   | RBW 120KHz | VBW 300KHz |
| Above 1GHz   | RBW 1MHz   | VBW 3MHz   |

#### 5.1.5 Test Condition

Continual Transmitting in maximum power.

#### 5.1.6 Test Result

##### TX MODE

All modes have been tested , and only worse case of 802.11 b mode is reported only.

We have scanned the 9KHz from 25GHz to the EUT.

Detailed information please see the following page.

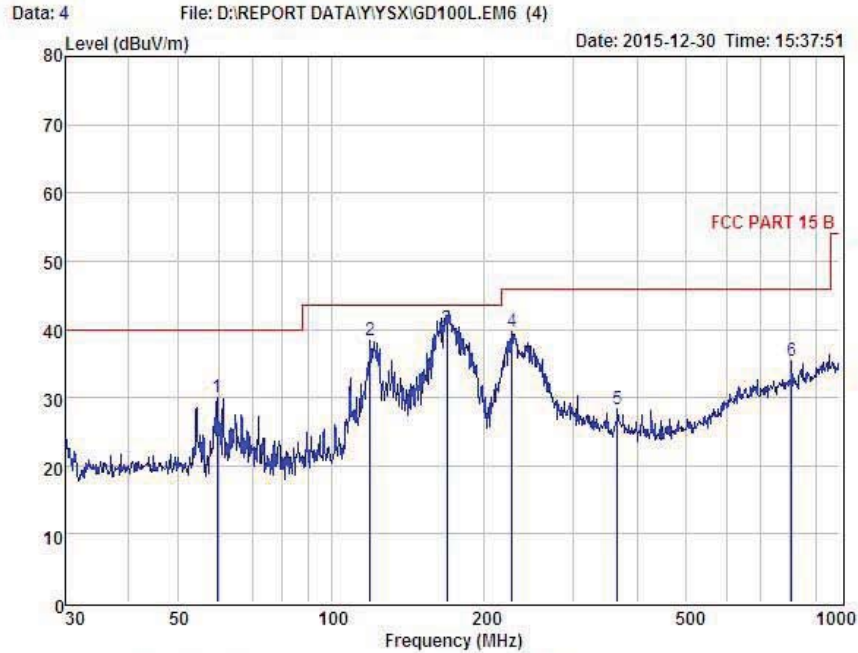
From 9KHz to 30MHz:      Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11b :



Shenzhen Alpha Product Testing Co., Ltd.  
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 Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China  
 Tel: +86-755-29766001 FAX: +86-755-86375565  
 Website: <http://www.a-lab.cn> Email: [service@a-lab.cn](mailto:service@a-lab.cn)



Condition : FCC PART 15 B 3m POL: HORIZONTAL  
 EUT :  
 Model No :  
 Test Mode :  
 Power :  
 Test Engineer :  
 Remark :  
 Temp : 25.2°C  
 Hum : 56%

| Item | Freq<br>MHz | Read<br>Level<br>dBuV | Antenna<br>Factor<br>dB | Preamplifier<br>Factor<br>dB | Cable<br>Loss<br>dB | Level<br>dBuV | Limit<br>dBuV | Margin<br>dBuV | Remark |
|------|-------------|-----------------------|-------------------------|------------------------------|---------------------|---------------|---------------|----------------|--------|
| 1    | 59.65       | 47.85                 | 12.75                   | 30.90                        | 0.24                | 29.94         | 40.00         | -10.06         | Peak   |
| 2    | 119.44      | 55.73                 | 12.06                   | 29.68                        | 0.33                | 38.44         | 43.50         | -5.06          | Peak   |
| 3    | 168.84      | 55.30                 | 13.37                   | 29.12                        | 0.50                | 40.05         | 43.50         | -3.45          | QP     |
| 4    | 226.89      | 56.41                 | 10.98                   | 28.24                        | 0.53                | 39.68         | 46.00         | -6.32          | Peak   |
| 5    | 365.54      | 40.93                 | 14.16                   | 27.58                        | 0.78                | 28.29         | 46.00         | -17.71         | Peak   |
| 6    | 804.60      | 38.57                 | 20.73                   | 25.31                        | 1.39                | 35.38         | 46.00         | -10.62         | Peak   |

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

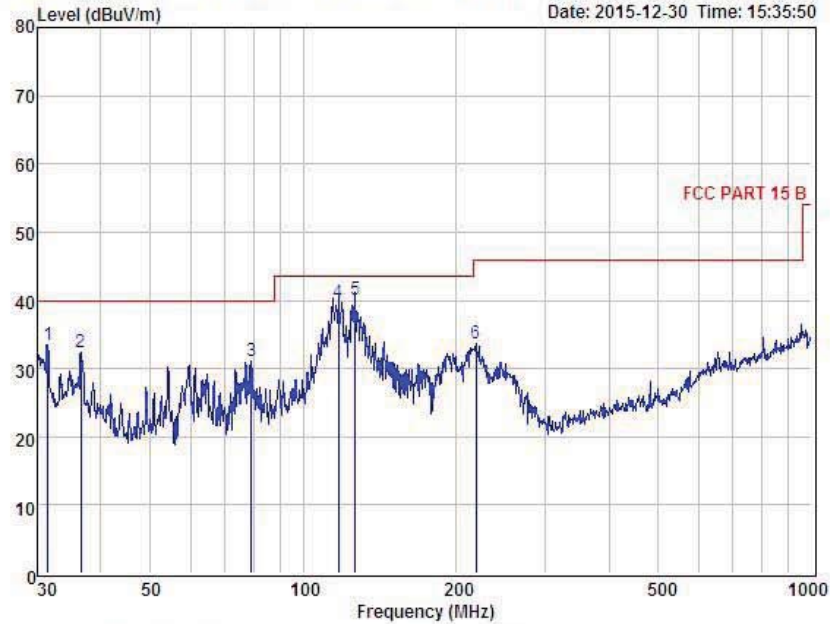


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 Website: <http://www.a-lab.cn> Email: [service@a-lab.cn](mailto:service@a-lab.cn)

Data: 3

File: D:\REPORT DATA\YYSX\GD100L.EM6 (4)

Date: 2015-12-30 Time: 15:35:50



Condition : FCC PART 15 B 3m POL: VERTICAL  
 EUT :  
 Model No :  
 Test Mode :  
 Power :  
 Test Engineer :  
 Remark :  
 Temp : 25.2°C  
 Hum : 56%

| Item | Freq<br>MHz | Read<br>Level<br>dBuV | Antenna<br>Factor<br>dB | Preamplifier<br>Factor<br>dB | Cable<br>Loss<br>dB | Level<br>dBuV | Limit<br>dBuV | Margin<br>dBuV | Remark |
|------|-------------|-----------------------|-------------------------|------------------------------|---------------------|---------------|---------------|----------------|--------|
| 1    | 31.51       | 51.14                 | 13.28                   | 30.98                        | 0.11                | 33.55         | 40.00         | -6.45          | Peak   |
| 2    | 36.51       | 49.75                 | 13.39                   | 30.83                        | 0.10                | 32.41         | 40.00         | -7.59          | Peak   |
| 3    | 78.97       | 51.54                 | 9.29                    | 30.01                        | 0.31                | 31.13         | 40.00         | -8.87          | Peak   |
| 4    | 117.36      | 57.28                 | 11.87                   | 29.74                        | 0.37                | 39.78         | 43.50         | -3.72          | QP     |
| 5    | 126.77      | 56.68                 | 12.57                   | 29.53                        | 0.42                | 40.14         | 43.50         | -3.36          | QP     |
| 6    | 219.08      | 50.77                 | 10.64                   | 28.45                        | 0.67                | 33.63         | 46.00         | -12.37         | Peak   |

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

From 1G-25GHz

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Low |                          |                                      |

IEEE 802.11b :

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1103        | V            | 41.99               | ---               | -11.24            | 30.75         | ---         | 74                  | 54                | 43.25       | Peak   |
| 4824        | V            | 36.99               | ---               | 0.64              | 37.63         | ---         | 74                  | 54                | 36.37       | Peak   |
| N/A         |              |                     |                   |                   |               |             |                     |                   |             |        |

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Low |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1103        | H            | 44.31               | ---               | -11.24            | 33.07         | ---         | 74                  | 54                | 40.93       | Peak   |
| 4824        | H            | 37.37               | ---               | 0.64              | 38.01         | ---         | 74                  | 54                | 35.99       | Peak   |
| N/A         |              |                     |                   |                   |               |             |                     |                   |             |        |

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Mid |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1103        | V            | 42.55               | ---               | -11.24            | 31.31         | ---         | 74                  | 54                | 42.69       | Peak   |
| 4874        | V            | 38.33               | ---               | 0.76              | 39.09         | ---         | 74                  | 54                | 34.91       | Peak   |

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Mid |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1103        | H            | 42.41               | ---               | -11.24            | 31.17         | ---         | 74                  | 54                | 42.83       | Peak   |
| 4874        | H            | 38.38               | ---               | 0.76              | 39.14         | ---         | 74                  | 54                | 34.86       | Peak   |

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

|                    |         |                          |                                      |
|--------------------|---------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera  | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa  | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX High |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1103        | V            | 41.9                | ---               | -11.24            | 30.66         | ---         | 74                  | 54                | 43.34       | Peak   |
| 4924        | V            | 37.93               | ---               | 0.87              | 38.8          | ---         | 74                  | 54                | 35.2        | Peak   |

|                    |         |                          |                                      |
|--------------------|---------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera  | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa  | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX High |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1103        | H            | 42.06               | ---               | -11.24            | 30.82         | ---         | 74                  | 54                | 43.18       | Peak   |
| 4924        | H            | 34.14               | ---               | 0.87              | 35.01         | ---         | 74                  | 54                | 38.99       | Peak   |

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11 g:

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Low |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1145        | V            | 43.12               | ---               | -11.24            | 31.88         | ---         | 74                  | 54                | 42.12       | Peak   |
| 2586        | V            | 47.02               | ---               | -7.13             | 39.89         | ---         | 74                  | 54                | 34.11       | Peak   |
| 3062        | V            | 45.24               | ---               | -5.74             | 39.5          | ---         | 74                  | 54                | 34.5        | Peak   |
| 4824        | V            | 41.19               | ---               | 0.64              | 41.83         | ---         | 74                  | 54                | 32.17       | Peak   |
| N/A         |              |                     |                   |                   |               |             |                     |                   |             |        |

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Low |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1294        | H            | 42.36               | ---               | -10.96            | 31.4          | ---         | 74                  | 54                | 42.6        | Peak   |
| 2038        | H            | 42.27               | ---               | -8.58             | 33.69         | ---         | 74                  | 54                | 40.31       | Peak   |
| 3483        | H            | 41.56               | ---               | -4.95             | 36.61         | ---         | 74                  | 54                | 37.39       | Peak   |
| 4824        | H            | 38.43               | ---               | 0.64              | 39.07         | ---         | 74                  | 54                | 34.93       | Peak   |
| N/A         |              |                     |                   |                   |               |             |                     |                   |             |        |

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Mid |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1374        | V            | 42.34               | ---               | -10.43            | 31.91         | ---         | 74                  | 54                | 42.09       | Peak   |
| 2589        | V            | 43.1                | ---               | -7.13             | 35.97         | ---         | 74                  | 54                | 38.03       | Peak   |
| 3365        | V            | 42.27               | ---               | -5.18             | 37.09         | ---         | 74                  | 54                | 36.91       | Peak   |
| 4874        | V            | 41.41               | ---               | 0.76              | 42.17         | ---         | 74                  | 54                | 31.83       | Peak   |

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Mid |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1321        | H            | 42.87               | ---               | -10.84            | 32.03         | ---         | 74                  | 54                | 41.97       | Peak   |
| 2314        | H            | 42.62               | ---               | -7.46             | 35.16         | ---         | 74                  | 54                | 38.84       | Peak   |
| 3577        | H            | 43.59               | ---               | -4.76             | 38.83         | ---         | 74                  | 54                | 35.17       | Peak   |
| 4874        | H            | 39.69               | ---               | 0.76              | 40.45         | ---         | 74                  | 54                | 33.55       | Peak   |

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

|                    |         |                          |                                      |
|--------------------|---------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera  | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa  | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX High |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1302        | V            | 43.33               | ---               | -10.84            | 32.49         | ---         | 74                  | 54                | 41.51       | Peak   |
| 2982        | V            | 43.69               | ---               | -5.86             | 37.83         | ---         | 74                  | 54                | 36.17       | Peak   |
| 3831        | V            | 42.53               | ---               | -3.96             | 38.57         | ---         | 74                  | 54                | 35.43       | Peak   |
| 4924        | V            | 39.87               | ---               | 0.87              | 40.74         | ---         | 74                  | 54                | 33.26       | Peak   |

|                    |         |                          |                                      |
|--------------------|---------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera  | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa  | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX High |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1446        | H            | 44.17               | ---               | -10.29            | 33.88         | ---         | 74                  | 54                | 40.12       | Peak   |
| 2198        | H            | 43.97               | ---               | -8.24             | 35.73         | ---         | 74                  | 54                | 38.27       | Peak   |
| 3905        | H            | 44.21               | ---               | -3.68             | 40.53         | ---         | 74                  | 54                | 33.47       | Peak   |
| 4924        | H            | 39.88               | ---               | 0.87              | 40.75         | ---         | 74                  | 54                | 33.25       | Peak   |

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11n/HT20 with 2.4G

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Low |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1492        | V            | 44.27               | ---               | -10.27            | 34            | ---         | 74                  | 54                | 40          | Peak   |
| 2671        | V            | 43.97               | ---               | -6.94             | 37.03         | ---         | 74                  | 54                | 36.97       | Peak   |
| 3948        | V            | 43.08               | ---               | -3.68             | 39.4          | ---         | 74                  | 54                | 34.6        | Peak   |
| 4824        | V            | 39.49               | ---               | 0.64              | 40.13         | ---         | 74                  | 54                | 33.87       | Peak   |
| N/A         |              |                     |                   |                   |               |             |                     |                   |             |        |

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Low |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1451        | H            | 44.3                | ---               | -10.27            | 34.03         | ---         | 74                  | 54                | 39.97       | Peak   |
| 2839        | H            | 43.55               | ---               | -6.17             | 37.38         | ---         | 74                  | 54                | 36.62       | Peak   |
| 3607        | H            | 44.58               | ---               | -4.52             | 40.06         | ---         | 74                  | 54                | 33.94       | Peak   |
| 4824        | H            | 40.25               | ---               | 0.64              | 40.89         | ---         | 74                  | 54                | 33.11       | Peak   |
| N/A         |              |                     |                   |                   |               |             |                     |                   |             |        |

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Mid |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1262        | V            | 44.02               | ---               | -10.96            | 33.06         | ---         | 74                  | 54                | 40.94       | Peak   |
| 2013        | V            | 43.72               | ---               | -8.58             | 35.14         | ---         | 74                  | 54                | 38.86       | Peak   |
| 3798        | V            | 43.76               | ---               | -4.07             | 39.69         | ---         | 74                  | 54                | 34.31       | Peak   |
| 4874        | V            | 40.68               | ---               | 0.76              | 41.44         | ---         | 74                  | 54                | 32.56       | Peak   |

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Mid |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1511        | H            | 44.94               | ---               | -10.14            | 34.8          | ---         | 74                  | 54                | 39.2        | Peak   |
| 2353        | H            | 43.71               | ---               | -7.59             | 36.12         | ---         | 74                  | 54                | 37.88       | Peak   |
| 3266        | H            | 43.22               | ---               | -5.39             | 37.83         | ---         | 74                  | 54                | 36.17       | Peak   |
| 4874        | H            | 39.99               | ---               | 0.76              | 40.75         | ---         | 74                  | 54                | 33.25       | Peak   |

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

|                    |         |                          |                                      |
|--------------------|---------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera  | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa  | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX High |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1477        | V            | 44.02               | ---               | -10.27            | 33.75         | ---         | 74                  | 54                | 40.25       | Peak   |
| 2703        | V            | 44.29               | ---               | -6.43             | 37.86         | ---         | 74                  | 54                | 36.14       | Peak   |
| 3561        | V            | 43.87               | ---               | -4.76             | 39.11         | ---         | 74                  | 54                | 34.89       | Peak   |
| 4924        | V            | 39.99               | ---               | 0.87              | 40.86         | ---         | 74                  | 54                | 33.14       | Peak   |

|                    |         |                          |                                      |
|--------------------|---------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera  | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa  | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX High |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1503        | H            | 44.13               | ---               | -10.14            | 33.99         | ---         | 74                  | 54                | 40.01       | Peak   |
| 3588        | H            | 44.37               | ---               | -4.96             | 39.41         | ---         | 74                  | 54                | 34.59       | Peak   |
| 4153        | H            | 43.18               | ---               | -2.48             | 40.7          | ---         | 74                  | 54                | 33.3        | Peak   |
| 4924        | H            | 40                  | ---               | 0.87              | 40.87         | ---         | 74                  | 54                | 33.13       | Peak   |

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

IEEE 802.11n/HT40 with 2.4G

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Low |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1551        | V            | 44.4                | ---               | -10.07            | 34.33         | ---         | 74                  | 54                | 39.67       | Peak   |
| 2695        | V            | 44.13               | ---               | -6.94             | 37.19         | ---         | 74                  | 54                | 36.81       | Peak   |
| 3463        | V            | 44.53               | ---               | -4.95             | 39.58         | ---         | 74                  | 54                | 34.42       | Peak   |
| 4844        | V            | 40.39               | ---               | 0.64              | 41.03         | ---         | 74                  | 54                | 32.97       | Peak   |
| N/A         |              |                     |                   |                   |               |             |                     |                   |             |        |

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Low |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1542        | H            | 44.01               | ---               | -10.14            | 33.87         | ---         | 74                  | 54                | 40.13       | Peak   |
| 2358        | H            | 44.3                | ---               | -7.59             | 36.71         | ---         | 74                  | 54                | 37.29       | Peak   |
| 3096        | H            | 44.06               | ---               | -5.74             | 38.32         | ---         | 74                  | 54                | 35.68       | Peak   |
| 4844        | H            | 40.64               | ---               | 0.64              | 41.28         | ---         | 74                  | 54                | 32.72       | Peak   |
| N/A         |              |                     |                   |                   |               |             |                     |                   |             |        |

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Mid |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1628        | V            | 44.47               | ---               | -9.84             | 34.63         | ---         | 74                  | 54                | 39.37       | Peak   |
| 2593        | V            | 44                  | ---               | -7.13             | 36.87         | ---         | 74                  | 54                | 37.13       | Peak   |
| 3301        | V            | 43.29               | ---               | -5.31             | 37.98         | ---         | 74                  | 54                | 36.02       | Peak   |
| 4874        | V            | 40.15               | ---               | 0.76              | 40.91         | ---         | 74                  | 54                | 33.09       | Peak   |

|                    |        |                          |                                      |
|--------------------|--------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C   | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX Mid |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1564        | H            | 44.83               | ---               | -10.07            | 34.76         | ---         | 74                  | 54                | 39.24       | Peak   |
| 2248        | H            | 44.14               | ---               | -8.13             | 36.01         | ---         | 74                  | 54                | 37.99       | Peak   |
| 3159        | H            | 43.57               | ---               | -5.52             | 38.05         | ---         | 74                  | 54                | 35.95       | Peak   |
| 4874        | H            | 40.01               | ---               | 0.76              | 40.77         | ---         | 74                  | 54                | 33.23       | Peak   |

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

|                    |         |                          |                                      |
|--------------------|---------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera  | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa  | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX High |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1645        | V            | 43.94               | ---               | -9.84             | 34.1          | ---         | 74                  | 54                | 39.9        | Peak   |
| 2590        | V            | 43.12               | ---               | -7.13             | 35.99         | ---         | 74                  | 54                | 38.01       | Peak   |
| 3851        | V            | 43.27               | ---               | -3.84             | 39.43         | ---         | 74                  | 54                | 34.57       | Peak   |
| 4904        | V            | 39.98               | ---               | 0.87              | 40.85         | ---         | 74                  | 54                | 33.15       | Peak   |

|                    |         |                          |                                      |
|--------------------|---------|--------------------------|--------------------------------------|
| <b>EUT</b>         | Camera  | <b>Model Name</b>        | GD100L                               |
| <b>Temperature</b> | 25°C    | <b>Relative Humidity</b> | 56%                                  |
| <b>Pressure</b>    | 960hPa  | <b>Test voltage</b>      | DC 5V From Adapter with AC 120V/60Hz |
| <b>Test Mode</b>   | TX High |                          |                                      |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant. / CL CF (dB) | Actual Fs     |             | Peak Limit (dBuV/m) | AV Limit (dBuV/m) | Margin (dB) | Remark |
|-------------|--------------|---------------------|-------------------|-------------------|---------------|-------------|---------------------|-------------------|-------------|--------|
|             |              |                     |                   |                   | Peak (dBuV/m) | AV (dBuV/m) |                     |                   |             |        |
| 1792        | H            | 44.13               | ---               | -9.27             | 34.86         | ---         | 74                  | 54                | 39.14       | Peak   |
| 2804        | H            | 43.52               | ---               | -6.17             | 37.35         | ---         | 74                  | 54                | 36.65       | Peak   |
| 3743        | H            | 44.8                | ---               | -4.24             | 40.56         | ---         | 74                  | 54                | 33.44       | Peak   |
| 4904        | H            | 40.87               | ---               | 0.87              | 41.74         | ---         | 74                  | 54                | 32.26       | Peak   |

**Notes:** AV Means AV detector test data, Peak Means Peak detector test data.

Emissions attenuated more than 20 dB below the permissible value are not reported.

## 6 POWER LINE CONDUCTED EMISSION

### 6.1 Conducted Emission Limits(15.207)

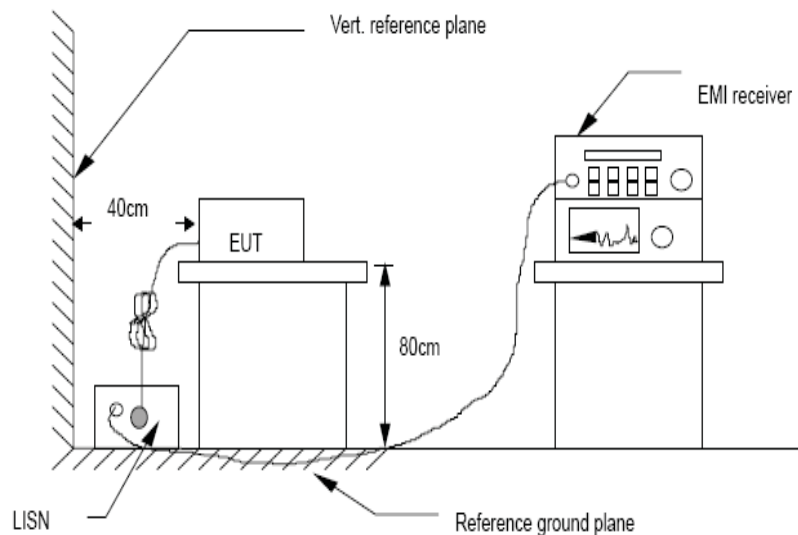
| Frequency<br>MHz | Limits dB( $\mu$ V) |               |
|------------------|---------------------|---------------|
|                  | Quasi-peak Level    | Average Level |
| 0.15 -0.50       | 66 -56*             | 56 - 46*      |
| 0.50 -5.00       | 56                  | 46            |
| 5.00 -30.00      | 60                  | 50            |

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

### 6.2 Test Setup



### 6.3 Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4:2014 on Conducted Emission Measurement. The bandwidth of test receiver (R & S ESCDLB ECHO 50) is set at 9 kHz.

### 6.4 Test Results

TX MODE

All modes have been tested, and only worse case of 802.11 b mode is reported only.

**PASS**

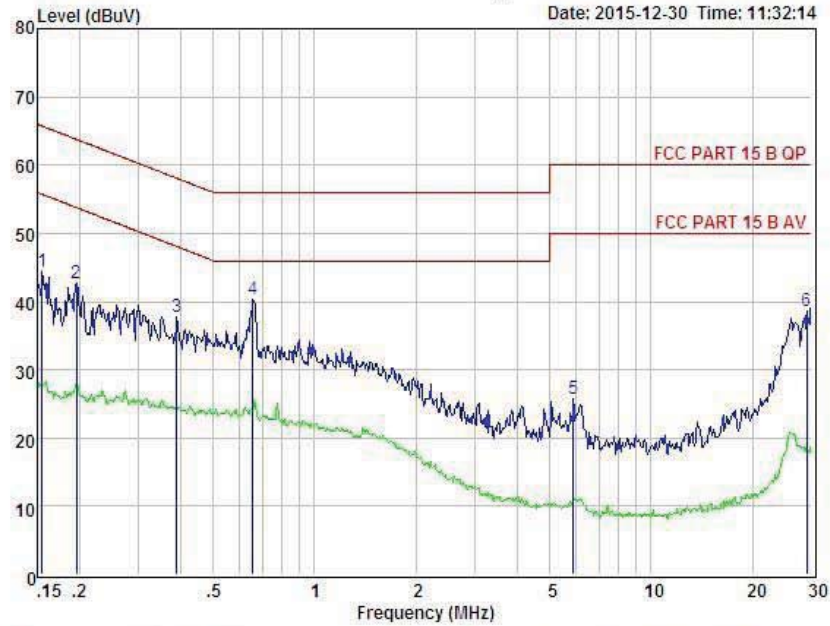
Detailed information please see the following page.

802.11b:



Shenzhen Alpha Product Testing Co., Ltd.  
 Building B, East Area of Nanchang Second Industrial Zone,  
 Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China  
 Tel: +86-755-29766001 FAX: +86-755-86375565  
 Website: http://www.a-lab.cn Email: service@a-lab.cn

Data: 1 File: E:\TEST REPORT\YYSX\GD100L.EM6 (4) Date: 2015-12-30 Time: 11:32:14



Condition : FCC PART 15 B QP POL: LINE Temp:25.7 °C Hum:51 %  
 EUT :  
 Model No :  
 Test Mode :  
 Power :  
 Test Engineer: Reak  
 Remark :

| Item | Freq<br>MHz | Read<br>dBuV | LISN<br>Factor<br>dB | Attenuator<br>Factor<br>dB | Cable<br>Loss<br>dB | Level<br>dBuV | Limit<br>dBuV | Margin<br>dBuV | Remark |
|------|-------------|--------------|----------------------|----------------------------|---------------------|---------------|---------------|----------------|--------|
| 1    | 0.155       | 34.70        | 0.03                 | -9.52                      | 0.10                | 44.35         | 65.74         | -21.39         | Peak   |
| 2    | 0.197       | 33.12        | 0.03                 | -9.52                      | 0.10                | 42.77         | 63.76         | -20.99         | Peak   |
| 3    | 0.389       | 28.14        | 0.03                 | -9.57                      | 0.10                | 37.84         | 58.08         | -20.24         | Peak   |
| 4    | 0.654       | 30.65        | 0.04                 | -9.59                      | 0.10                | 40.38         | 56.00         | -15.62         | Peak   |
| 5    | 5.867       | 15.47        | 0.11                 | -9.97                      | 0.14                | 25.69         | 60.00         | -34.31         | Peak   |
| 6    | 29.061      | 27.67        | 0.48                 | -9.86                      | 0.61                | 38.62         | 60.00         | -21.38         | Peak   |

Remarks: Level = Read + LISN Factor - Attenuator Factor + Cable loss

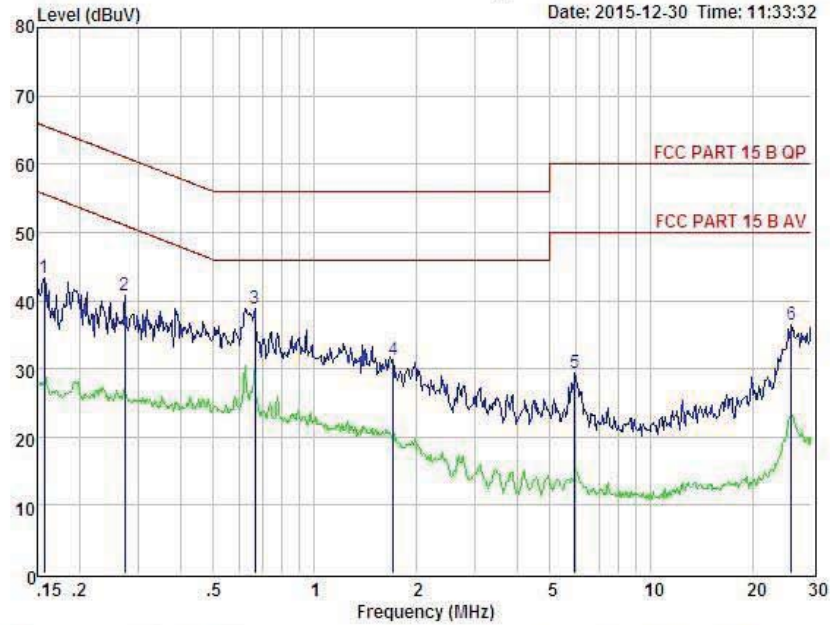


Shenzhen Alpha Product Testing Co., Ltd.  
 Building B, East Area of Nanchang Second Industrial Zone,  
 Gushu 2nd Road, Bao'an District, Shenzhen 518126, P.R. China  
 Tel: +86-755-29766001 FAX: +86-755-86375565  
 Website: http://www.a-lab.cn Email: service@a-lab.cn

Data: 3

File: E:\TEST REPORT\YYSX\IGD100L.EM6 (4)

Date: 2015-12-30 Time: 11:33:32



Condition : FCC PART 15 B QP POL: NEUTRAL Temp: 25.7 °C Hum: 51 %  
 EUT :  
 Model No :  
 Test Mode :  
 Power :  
 Test Engineer: Reak  
 Remark :

| Item | Freq<br>MHz | Read<br>dBuV | LISN<br>Factor<br>dB | Attenuator<br>Factor<br>dB | Cable<br>Loss<br>dB | Level<br>dBuV | Limit<br>dBuV | Margin<br>dBuV | Remark |
|------|-------------|--------------|----------------------|----------------------------|---------------------|---------------|---------------|----------------|--------|
| 1    | 0.157       | 33.77        | 0.03                 | -9.52                      | 0.10                | 43.42         | 65.60         | -22.18         | Peak   |
| 2    | 0.273       | 31.06        | 0.03                 | -9.56                      | 0.10                | 40.75         | 61.03         | -20.28         | Peak   |
| 3    | 0.665       | 29.03        | 0.04                 | -9.59                      | 0.10                | 38.76         | 56.00         | -17.24         | Peak   |
| 4    | 1.716       | 21.38        | 0.05                 | -9.70                      | 0.10                | 31.23         | 56.00         | -24.77         | Peak   |
| 5    | 5.929       | 19.25        | 0.11                 | -9.97                      | 0.14                | 29.47         | 60.00         | -30.53         | Peak   |
| 6    | 26.139      | 25.55        | 0.46                 | -9.83                      | 0.52                | 36.36         | 60.00         | -23.64         | Peak   |

Remarks: Level = Read + LISN Factor - Attenuator Factor + Cable loss

## 7 Conducted Maximum Output Power

### 7.1 Test limit

Please refer section RSS-247 & 15.247.

### 7.2 Test Procedure

Details see the KDB558074 Meas Guidance V03

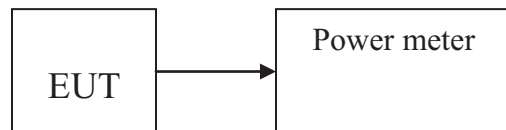
7.2.1 Place the EUT on the table and set it in transmitting mode.

7.2.2 Measure out each mode and each bands peak output power of EUT.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

Details see the KDB558074 DTS Meas Guidance V03

### 7.3 Test Setup



### 7.4 Test Results

**PASS**

Detailed information please see the following page.

|                       |                    |                      |
|-----------------------|--------------------|----------------------|
| EUT: Camera           | M/N: GD100L        |                      |
| Test date: 2016-01-04 | Test site: RF site | Tested by: Reak Yang |
| Conclusion: PASS      |                    |                      |

| Mode                         | Frequency (MHz) | PK Output power (dBm) | Limit (dBm) | Margin (dB) |
|------------------------------|-----------------|-----------------------|-------------|-------------|
| IEEE 802.11 b                | CH1: 2412       | 19.52                 | 30          | 10.48       |
|                              | CH6: 2437       | 19.37                 | 30          | 10.63       |
|                              | CH11: 2462      | 19.44                 | 30          | 10.56       |
| IEEE 802.11 g                | CH1: 2412       | 17.74                 | 30          | 12.26       |
|                              | CH6: 2437       | 17.42                 | 30          | 12.58       |
|                              | CH11: 2462      | 17.56                 | 30          | 12.44       |
| IEEE 802.11 n/HT20 with 2.4G | CH1: 2412       | 17.68                 | 30          | 12.32       |
|                              | CH6: 2437       | 17.41                 | 30          | 12.59       |
|                              | CH11: 2462      | 17.56                 | 30          | 12.44       |
| IEEE 802.11 n/HT40 with 2.4G | CH3: 2422       | 15.37                 | 30          | 14.63       |
|                              | CH6: 2437       | 15.26                 | 30          | 14.74       |
|                              | CH9: 2452       | 15.18                 | 30          | 14.82       |
| Conclusion: PASS             |                 |                       |             |             |

## 8 PEAK POWER SPECTRAL DENSITY

### 8.1 Test limit

8.1.1 Please refer section RSS-247 & 15.247.

8.1.2 For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

8.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

### 8.2 Method of measurement

Details see the KDB558074 DTS Meas Guidance V03

8.2.1 Place the EUT on the table and set it in transmitting mode.

8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

8.2.3 Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, span=5-30%EBW, detail see the test plot.

8.2.4 Record the max reading.

8.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

### 8.3 Test Setup



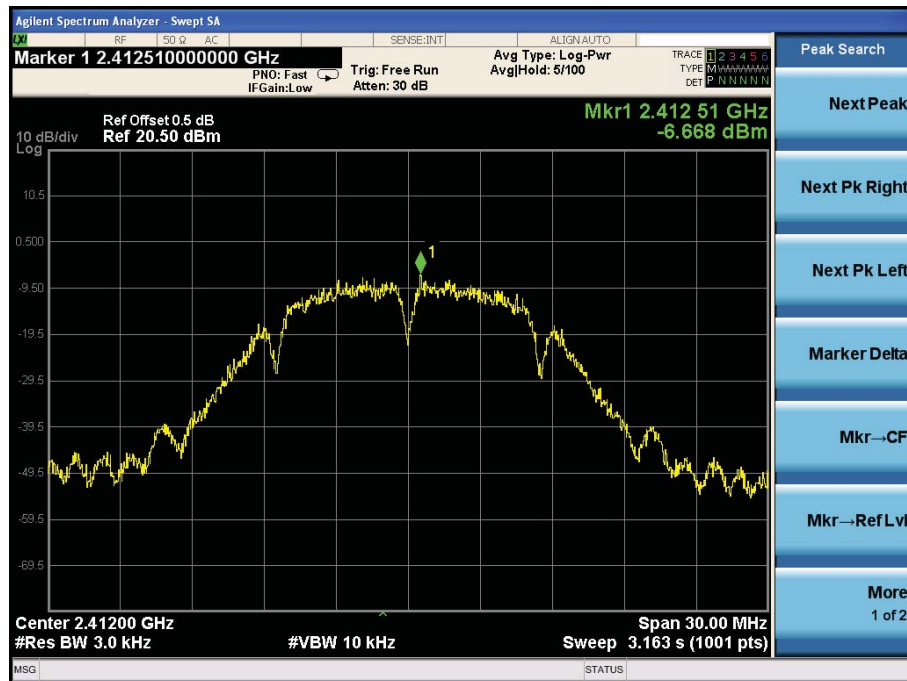
## 8.4 Test Results

PASS.

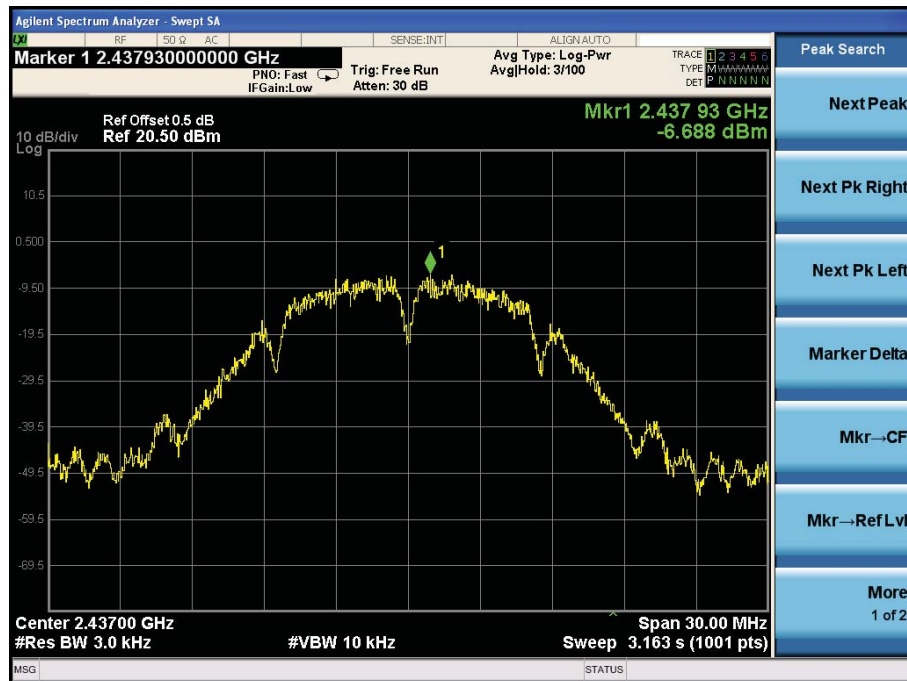
Detailed information please see the following page.

| Mode                         | Frequency (MHz) | PK Output power(dBm) | Limit (dBm) | Result |
|------------------------------|-----------------|----------------------|-------------|--------|
| IEEE 802.11 b                | CH1: 2412       | -6.668               | 8           | PASS   |
|                              | CH6: 2437       | -6.688               | 8           | PASS   |
|                              | CH11: 2462      | -4.604               | 8           | PASS   |
| IEEE 802.11 g                | CH1: 2412       | -11.820              | 8           | PASS   |
|                              | CH6: 2437       | -10.277              | 8           | PASS   |
|                              | CH11: 2462      | -11.838              | 8           | PASS   |
| IEEE 802.11 n/HT20 with 2.4G | CH1: 2412       | -10.635              | 8           | PASS   |
|                              | CH6: 2437       | -9.094               | 8           | PASS   |
|                              | CH11: 2462      | -12.602              | 8           | PASS   |
| IEEE 802.11 n/HT40 with 2.4G | CH3: 2422       | -17.954              | 8           | PASS   |
|                              | CH6: 2437       | -16.105              | 8           | PASS   |
|                              | CH9: 2452       | -16.624              | 8           | PASS   |

IEEE 802.11b :  
CH Low :



CH Mid:

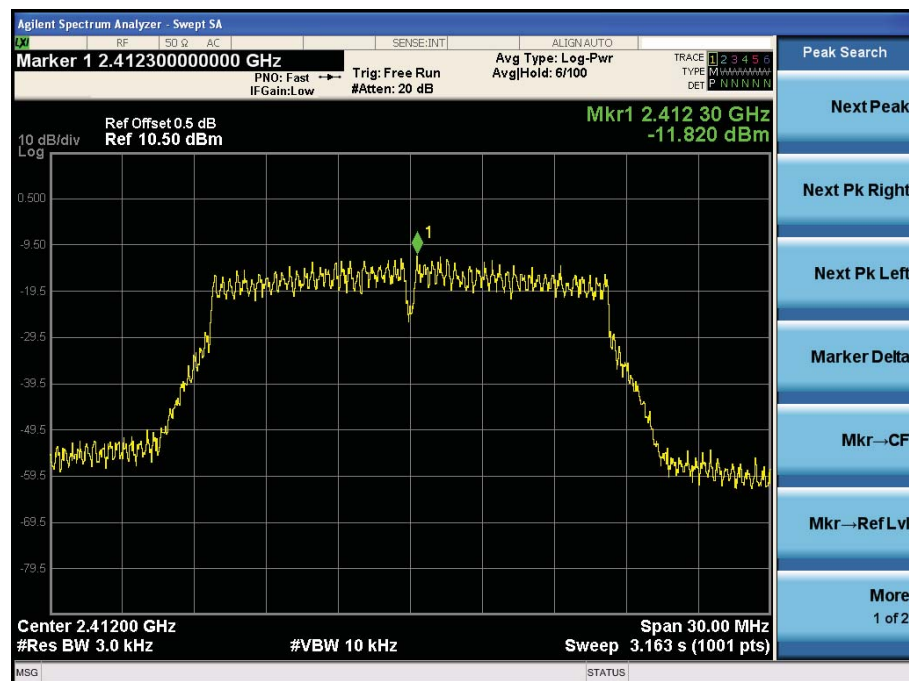


CH High:

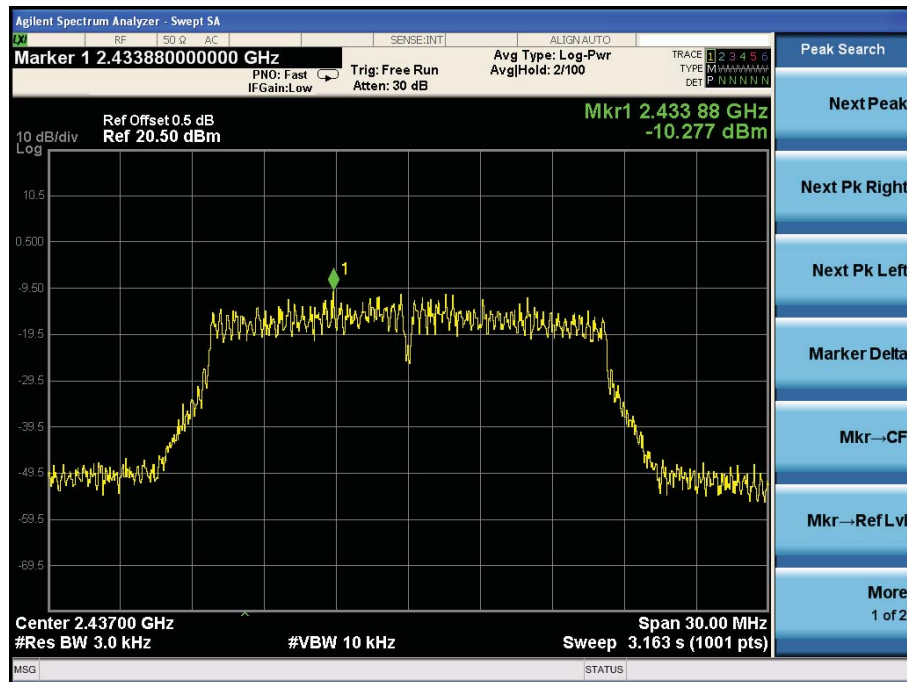


IEEE 802.11g :

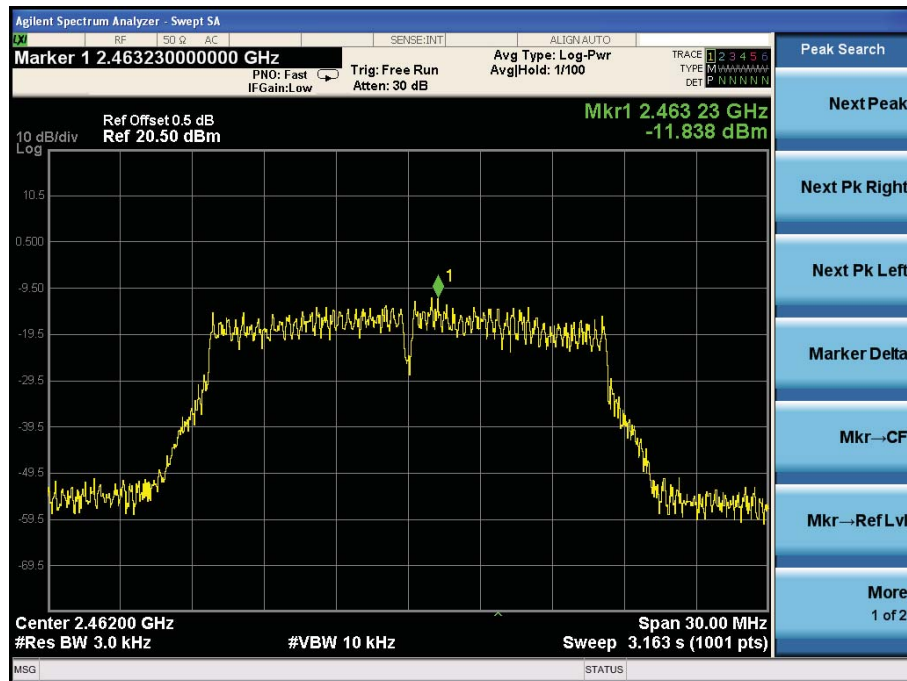
CH Low



CH Mid:

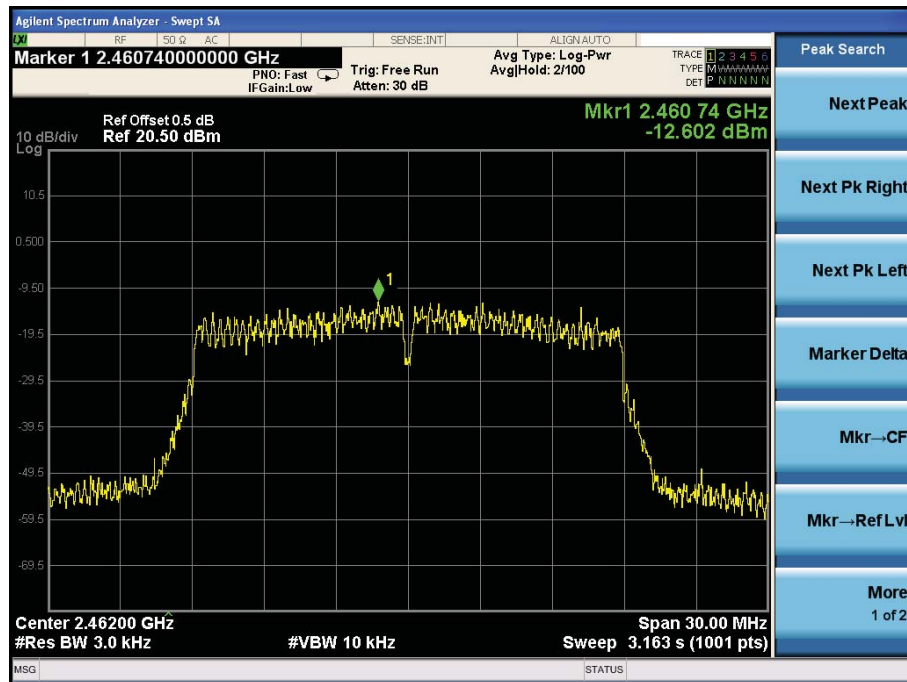


CH High:



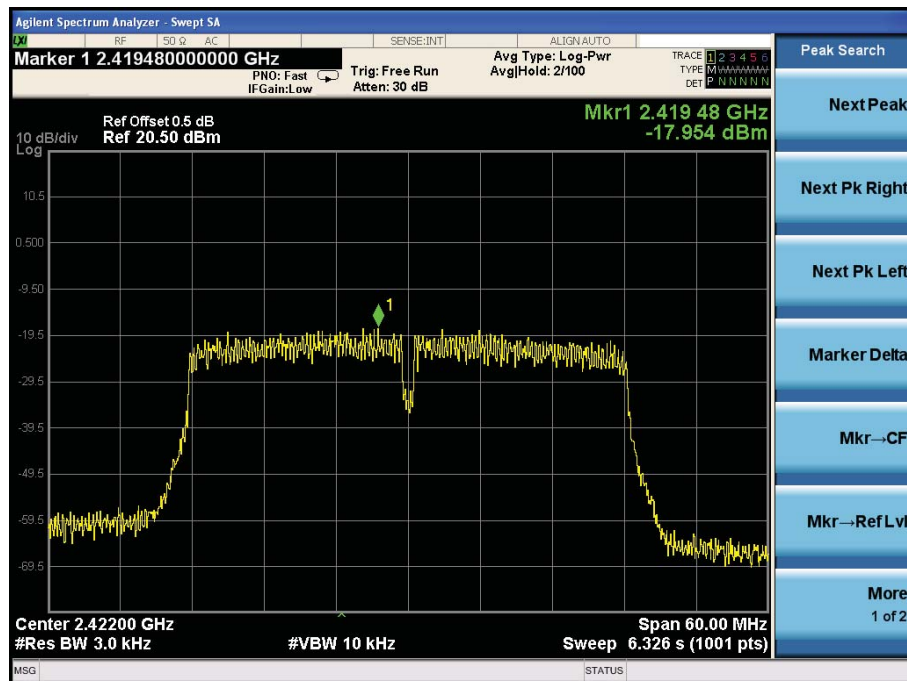


CH High:

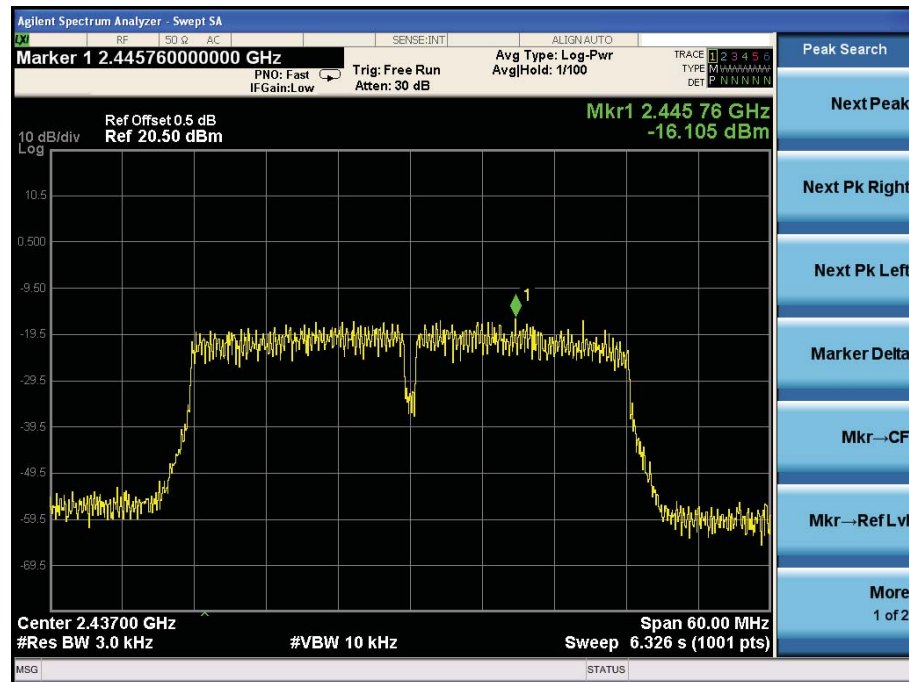


IEEE 802.11n HT40 :

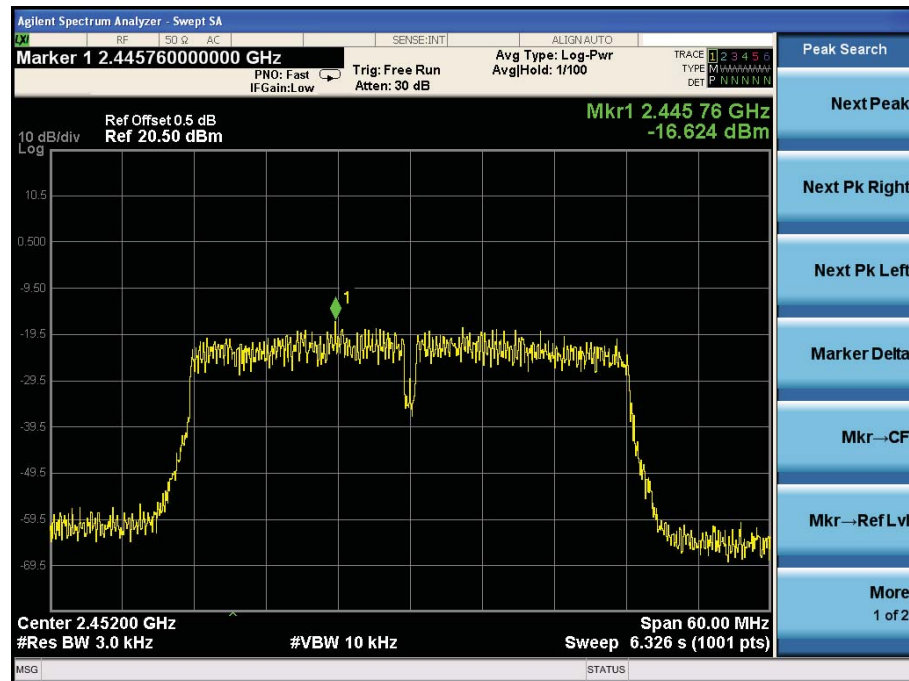
CH Low :



CH Mid:



CH High:



## 9 Bandwidth

### 9.1 Test limit

Please refer section RSS-247 & 15.247

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

### 9.2 Method of measurement

Details see the KDB558074 D01 Meas Guidance

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver set RBW = 100KHz, VBW  $\geq$  300KHz, Sweep time set auto, PEAK Detector, detail see the test plot.

### 9.3 Test Setup



### 9.4 Test Results

PASS.

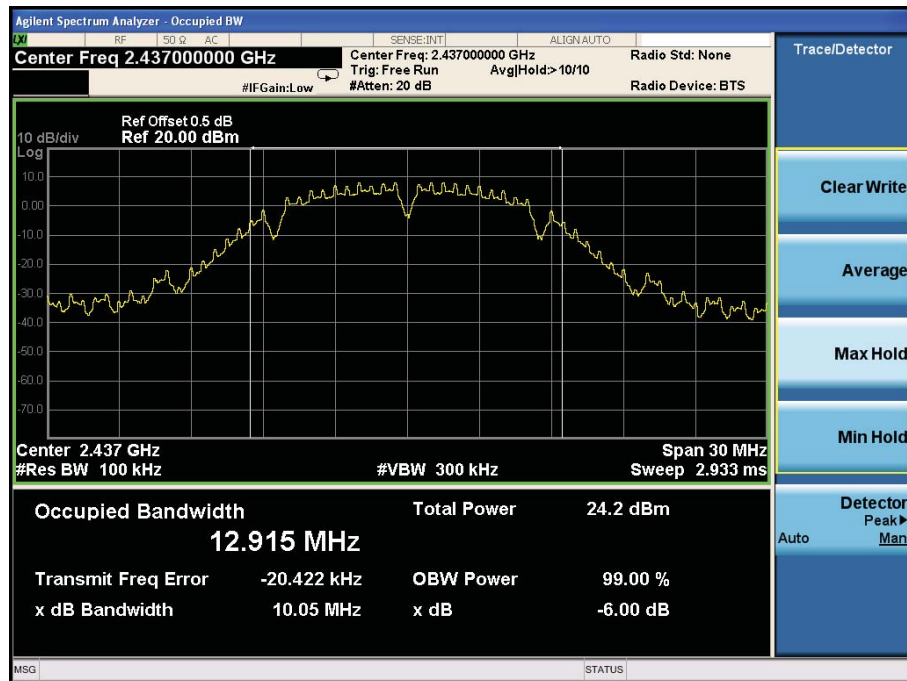
Detailed information please see the following page.

| Channel            | Frequency (MHz) | 6dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Limit (MHz) | Result |
|--------------------|-----------------|---------------------|------------------------------|-------------|--------|
| IEEE 802.11b:      |                 |                     |                              |             |        |
| Low                | 2412            | 9.604               | /                            | 0.5         | PASS   |
| Mid                | 2437            | 10.05               | /                            | 0.5         | PASS   |
| High               | 2462            | 9.586               | /                            | 0.5         | PASS   |
| IEEE 802.11g       |                 |                     |                              |             |        |
| Low                | 2412            | 15.14               | /                            | 0.5         | PASS   |
| Mid                | 2437            | 15.71               | /                            | 0.5         | PASS   |
| High               | 2462            | 15.15               | /                            | 0.5         | PASS   |
| IEEE 802.11n/HT20: |                 |                     |                              |             |        |
| Low                | 2412            | 15.16               | /                            | 0.5         | PASS   |
| Mid                | 2437            | 15.13               | /                            | 0.5         | PASS   |
| High               | 2462            | 15.33               | /                            | 0.5         | PASS   |
| IEEE 802.11n/HT40: |                 |                     |                              |             |        |
| Low                | 2422            | 35.24               | /                            | 0.5         | PASS   |
| Mid                | 2437            | 35.25               | /                            | 0.5         | PASS   |
| High               | 2452            | 35.25               | /                            | 0.5         | PASS   |

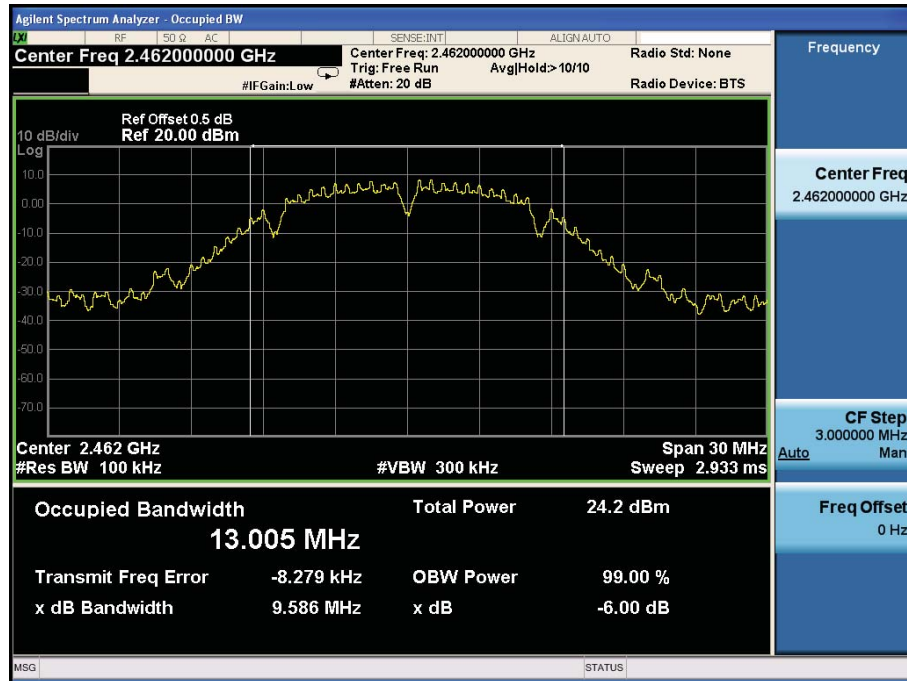
IEEE 802.11b:  
CH Low :



CH Mid :

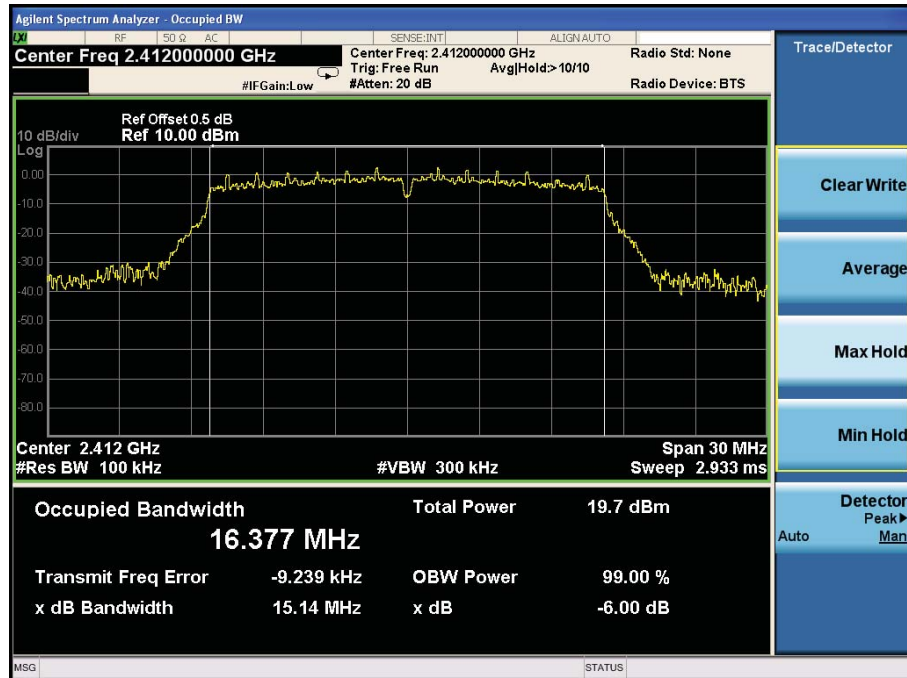


CH High :

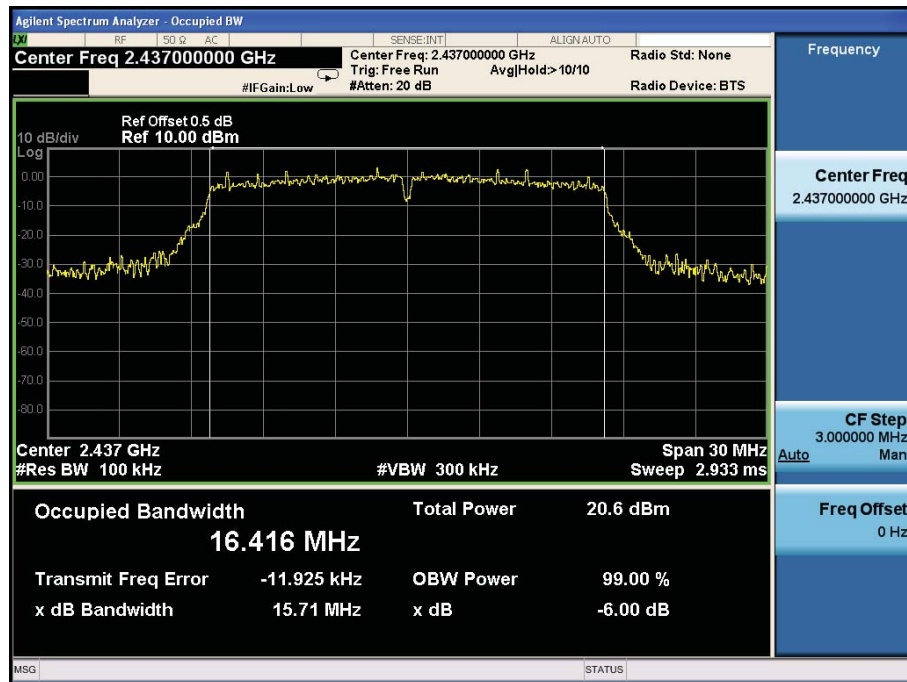


IEEE 802.11g:

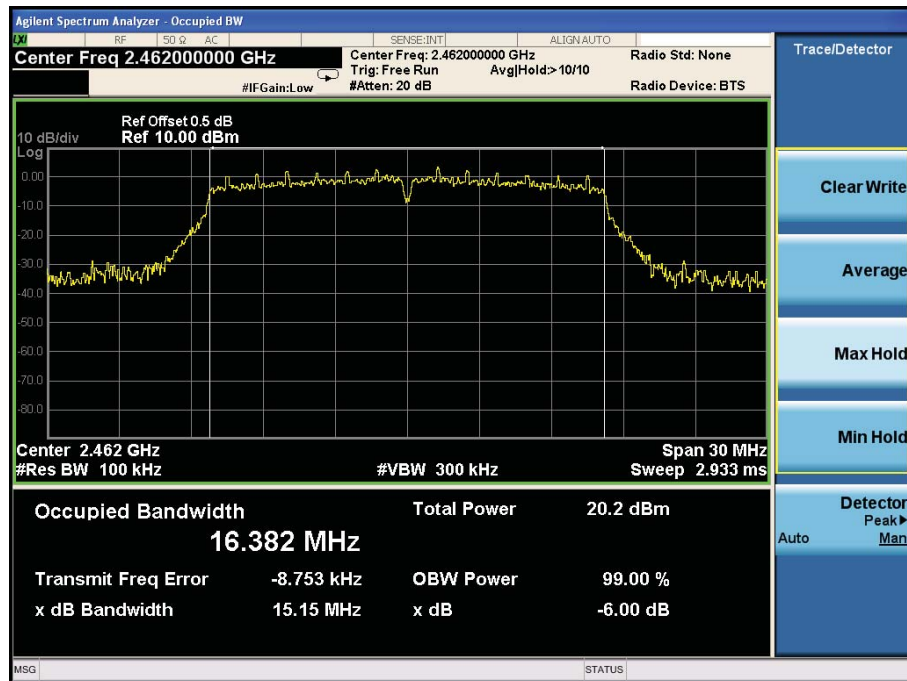
CH Low :



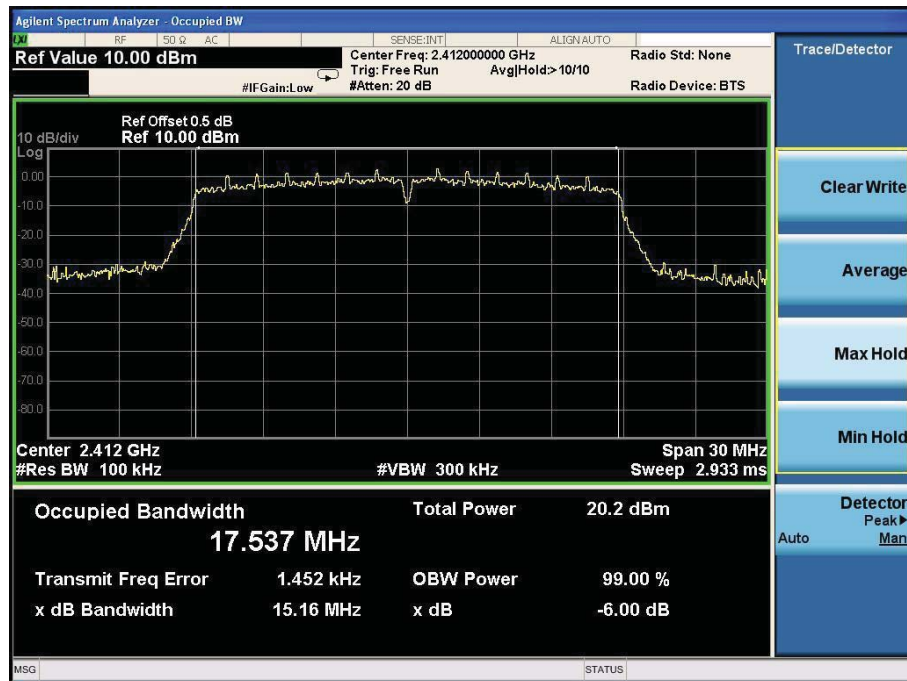
CH Mid:



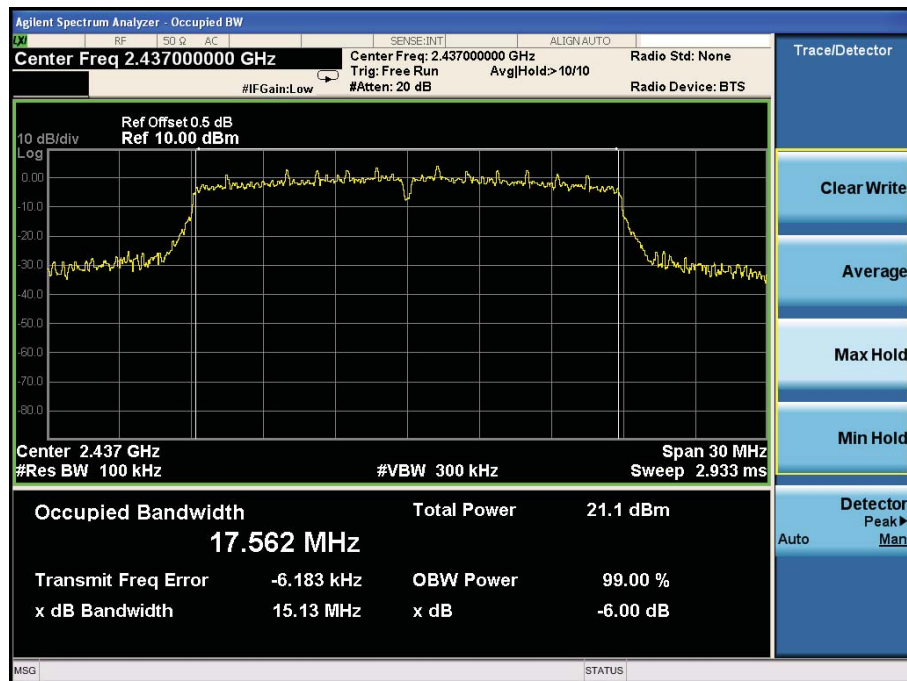
CH High:



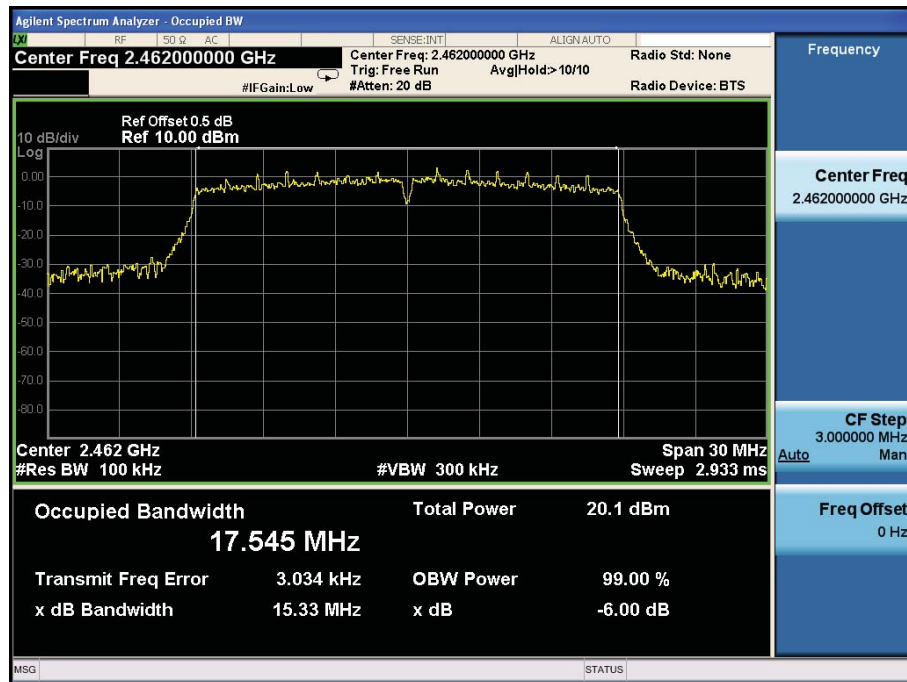
IEEE 802.11n HT20:  
CH Low :



CH Mid :

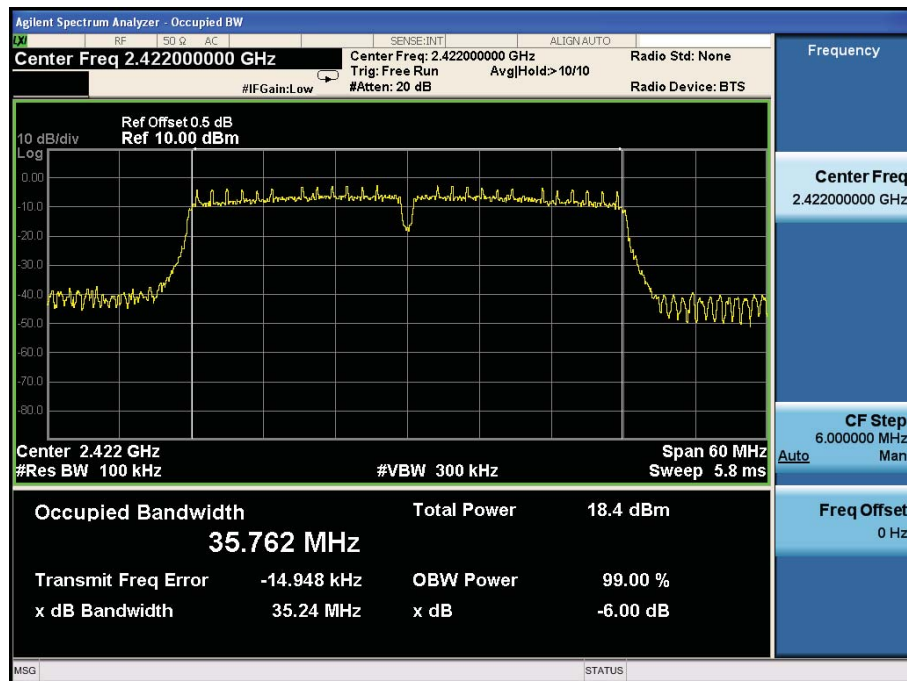


CH High :

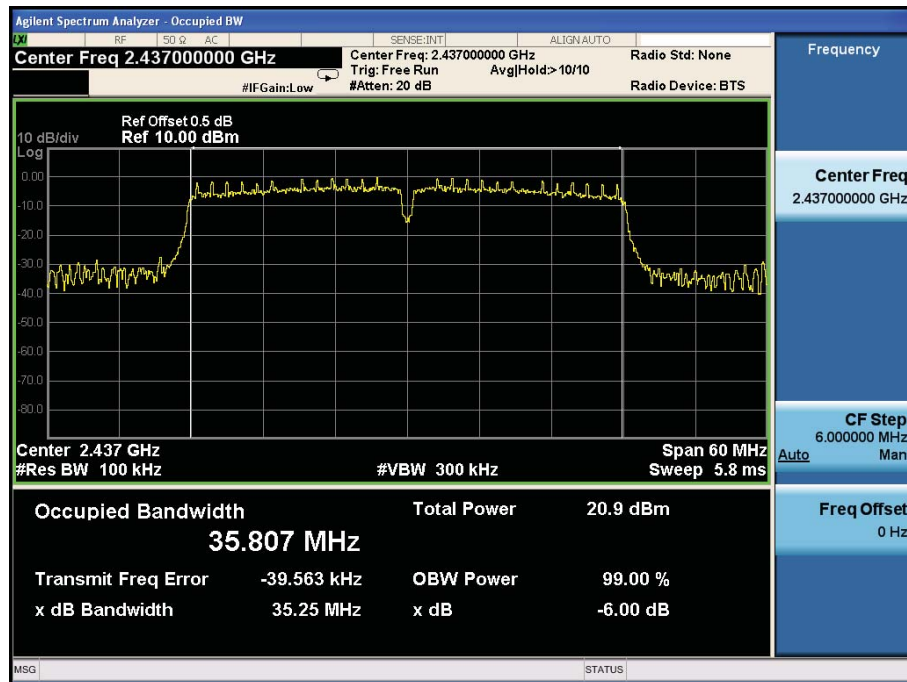


IEEE 802.11n/HT40:

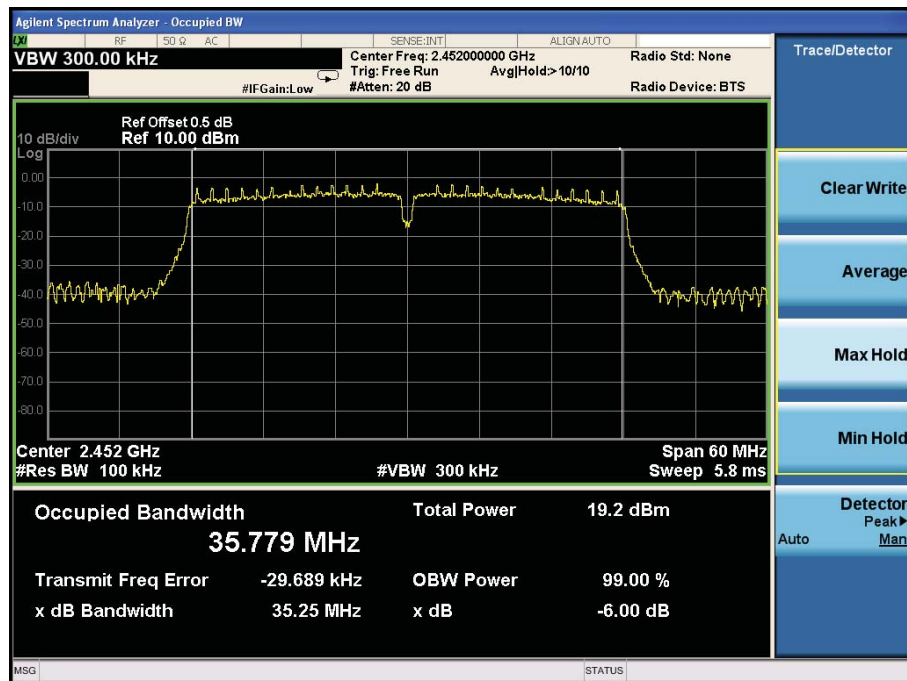
CH Low :



CH Mid:



CH High :



## 10 Band Edge Check

### 10.1 Test limit

Please refer section RSS-GEN&15.247.

### 10.2 Test Procedure

12.2.1 Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

12.2.2 Check the spurious emissions out of band.

12.2.3 RBW 1MHz ,VBW 3MHz ,peak detector for peak value , RBW 1MHz ,VBW 3MHz ,RMS detector for AV value.

### 10.3 Test Setup

Same as 5.2.2.

### 10.4 Test Result

PASS.

Detailed information please see the following page.

| Band Edge Test result                                                                             |                     |                       |                       |                 |                 |                      |             |           |
|---------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|-----------------|-----------------|----------------------|-------------|-----------|
| EUT: Camera                                                                                       |                     |                       | M/N: GD100L           |                 |                 |                      |             |           |
| Power: DC 5V From Adapter with AC 120V/60Hz                                                       |                     |                       |                       |                 |                 |                      |             |           |
| Test date: 2016-01-05                                                                             |                     |                       | Test site: 3m Chamber |                 |                 | Tested by: Reak Yang |             |           |
| Test mode: Tx Low                                                                                 |                     |                       |                       |                 |                 |                      |             |           |
| Antenna polarity: Vertical                                                                        |                     |                       |                       |                 |                 |                      |             |           |
| Freq (MHz)                                                                                        | Read Level (dBuV/m) | Antenna Factor (dB/m) | Cable loss(dB)        | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m)       | Margin (dB) | Remark    |
| 2390                                                                                              | 41.29               | 27.62                 | 3.92                  | 34.97           | 37.86           | 74                   | 36.14       | <b>PK</b> |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
| Antenna Polarity: Horizontal                                                                      |                     |                       |                       |                 |                 |                      |             |           |
| 2390                                                                                              | 43.74               | 27.62                 | 3.92                  | 34.97           | 40.31           | 74                   | 33.69       | <b>PK</b> |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
| Note:                                                                                             |                     |                       |                       |                 |                 |                      |             |           |
| 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK                 |                     |                       |                       |                 |                 |                      |             |           |
| 2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS                |                     |                       |                       |                 |                 |                      |             |           |
| 3, Result = Read level + Antenna factor + cable loss-Amp factor                                   |                     |                       |                       |                 |                 |                      |             |           |
| 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit. |                     |                       |                       |                 |                 |                      |             |           |

| Band Edge Test result                                                                             |                     |                       |                       |                 |                 |                      |             |           |
|---------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|-----------------|-----------------|----------------------|-------------|-----------|
| EUT: Camera                                                                                       |                     |                       | M/N: GD100L           |                 |                 |                      |             |           |
| Power: DC 5V From Adapter with AC 120V/60Hz                                                       |                     |                       |                       |                 |                 |                      |             |           |
| Test date: 2016-01-05                                                                             |                     |                       | Test site: 3m Chamber |                 |                 | Tested by: Reak Yang |             |           |
| Test mode: Tx High                                                                                |                     |                       |                       |                 |                 |                      |             |           |
| Antenna polarity: Vertical                                                                        |                     |                       |                       |                 |                 |                      |             |           |
| Freq (MHz)                                                                                        | Read Level (dBuV/m) | Antenna Factor (dB/m) | Cable loss(dB)        | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m)       | Margin (dB) | Remark    |
| 2483.5                                                                                            | 45.11               | 27.89                 | 4                     | 34.97           | 42.03           | 74                   | 31.97       | <b>PK</b> |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
| Antenna Polarity: Horizontal                                                                      |                     |                       |                       |                 |                 |                      |             |           |
| 2483.5                                                                                            | 47.65               | 27.89                 | 4                     | 34.97           | 44.57           | 74                   | 29.43       | <b>PK</b> |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
| Note:                                                                                             |                     |                       |                       |                 |                 |                      |             |           |
| 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK                 |                     |                       |                       |                 |                 |                      |             |           |
| 2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS                |                     |                       |                       |                 |                 |                      |             |           |
| 3, Result = Read level + Antenna factor + cable loss-Amp factor                                   |                     |                       |                       |                 |                 |                      |             |           |
| 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit. |                     |                       |                       |                 |                 |                      |             |           |

| Band Edge Test result                                                                             |                     |                       |                       |                 |                 |                      |             |        |
|---------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|-----------------|-----------------|----------------------|-------------|--------|
| EUT: Camera                                                                                       |                     |                       | M/N: GD100L           |                 |                 |                      |             |        |
| Power: DC 5V From Adapter with AC 120V/60Hz                                                       |                     |                       |                       |                 |                 |                      |             |        |
| Test date: 2016-01-05                                                                             |                     |                       | Test site: 3m Chamber |                 |                 | Tested by: Reak Yang |             |        |
| Test mode: Tx Low                                                                                 |                     |                       |                       |                 |                 |                      |             |        |
| Antenna polarity: Vertical                                                                        |                     |                       |                       |                 |                 |                      |             |        |
| Freq (MHz)                                                                                        | Read Level (dBuV/m) | Antenna Factor (dB/m) | Cable loss(dB)        | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m)       | Margin (dB) | Remark |
| 2390                                                                                              | 41.89               | 27.62                 | 3.92                  | 34.97           | 38.46           | 74                   | 35.54       | PK     |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --     |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
| Antenna Polarity: Horizontal                                                                      |                     |                       |                       |                 |                 |                      |             |        |
| 2390                                                                                              | 44.92               | 27.62                 | 3.92                  | 34.97           | 41.49           | 74                   | 32.51       | PK     |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --     |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
| Note:                                                                                             |                     |                       |                       |                 |                 |                      |             |        |
| 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK                 |                     |                       |                       |                 |                 |                      |             |        |
| 2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS                |                     |                       |                       |                 |                 |                      |             |        |
| 3, Result = Read level + Antenna factor + cable loss-Amp factor                                   |                     |                       |                       |                 |                 |                      |             |        |
| 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit. |                     |                       |                       |                 |                 |                      |             |        |

| Band Edge Test result                                                                             |                     |                       |                       |                 |                 |                      |             |           |
|---------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|-----------------|-----------------|----------------------|-------------|-----------|
| EUT: Camera                                                                                       |                     |                       | M/N: GD100L           |                 |                 |                      |             |           |
| Power: DC 5V From Adapter with AC 120V/60Hz                                                       |                     |                       |                       |                 |                 |                      |             |           |
| Test date: 2016-01-05                                                                             |                     |                       | Test site: 3m Chamber |                 |                 | Tested by: Reak Yang |             |           |
| Test mode: Tx High                                                                                |                     |                       |                       |                 |                 |                      |             |           |
| Antenna polarity: Vertical                                                                        |                     |                       |                       |                 |                 |                      |             |           |
| Freq (MHz)                                                                                        | Read Level (dBuV/m) | Antenna Factor (dB/m) | Cable loss(dB)        | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m)       | Margin (dB) | Remark    |
| 2483.5                                                                                            | 45.67               | 27.89                 | 4                     | 34.97           | 42.59           | 74                   | 31.41       | <b>PK</b> |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
| Antenna Polarity: Horizontal                                                                      |                     |                       |                       |                 |                 |                      |             |           |
| 2483.5                                                                                            | 48.99               | 27.89                 | 4                     | 34.97           | 45.91           | 74                   | 28.09       | <b>PK</b> |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
| Note:                                                                                             |                     |                       |                       |                 |                 |                      |             |           |
| 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK                 |                     |                       |                       |                 |                 |                      |             |           |
| 2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS                |                     |                       |                       |                 |                 |                      |             |           |
| 3, Result = Read level + Antenna factor + cable loss-Amp factor                                   |                     |                       |                       |                 |                 |                      |             |           |
| 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit. |                     |                       |                       |                 |                 |                      |             |           |

| Band Edge Test result                                                                             |                     |                       |                       |                 |                 |                      |             |           |
|---------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|-----------------|-----------------|----------------------|-------------|-----------|
| EUT: Camera                                                                                       |                     |                       | M/N: GD100L           |                 |                 |                      |             |           |
| Power: DC 5V From Adapter with AC 120V/60Hz                                                       |                     |                       |                       |                 |                 |                      |             |           |
| Test date: 2016-01-05                                                                             |                     |                       | Test site: 3m Chamber |                 |                 | Tested by: Reak Yang |             |           |
| Test mode: Tx Low                                                                                 |                     |                       |                       |                 |                 |                      |             |           |
| Antenna polarity: Vertical                                                                        |                     |                       |                       |                 |                 |                      |             |           |
| Freq (MHz)                                                                                        | Read Level (dBuV/m) | Antenna Factor (dB/m) | Cable loss(dB)        | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m)       | Margin (dB) | Remark    |
| 2390                                                                                              | 42.17               | 27.62                 | 3.92                  | 34.97           | 38.74           | 74                   | 35.26       | <b>PK</b> |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
| Antenna Polarity: Horizontal                                                                      |                     |                       |                       |                 |                 |                      |             |           |
| 2390                                                                                              | 44.21               | 27.62                 | 3.92                  | 34.97           | 40.78           | 74                   | 33.22       | <b>PK</b> |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
| Note:                                                                                             |                     |                       |                       |                 |                 |                      |             |           |
| 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK                 |                     |                       |                       |                 |                 |                      |             |           |
| 2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS                |                     |                       |                       |                 |                 |                      |             |           |
| 3, Result = Read level + Antenna factor + cable loss-Amp factor                                   |                     |                       |                       |                 |                 |                      |             |           |
| 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit. |                     |                       |                       |                 |                 |                      |             |           |

| Band Edge Test result                                                                             |                     |                       |                       |                 |                 |                      |             |        |
|---------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|-----------------|-----------------|----------------------|-------------|--------|
| EUT: Camera                                                                                       |                     |                       | M/N: GD100L           |                 |                 |                      |             |        |
| Power: DC 5V From Adapter with AC 120V/60Hz                                                       |                     |                       |                       |                 |                 |                      |             |        |
| Test date: 2016-01-05                                                                             |                     |                       | Test site: 3m Chamber |                 |                 | Tested by: Reak Yang |             |        |
| Test mode: Tx High                                                                                |                     |                       |                       |                 |                 |                      |             |        |
| Antenna polarity: Vertical                                                                        |                     |                       |                       |                 |                 |                      |             |        |
| Freq (MHz)                                                                                        | Read Level (dBuV/m) | Antenna Factor (dB/m) | Cable loss(dB)        | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m)       | Margin (dB) | Remark |
| 2483.5                                                                                            | 46.31               | 27.89                 | 4                     | 34.97           | 43.23           | 74                   | 30.77       | PK     |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --     |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
| Antenna Polarity: Horizontal                                                                      |                     |                       |                       |                 |                 |                      |             |        |
| 2483.5                                                                                            | 48.96               | 27.89                 | 4                     | 34.97           | 45.88           | 74                   | 28.12       | PK     |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --     |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
| Note:                                                                                             |                     |                       |                       |                 |                 |                      |             |        |
| 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK                 |                     |                       |                       |                 |                 |                      |             |        |
| 2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS                |                     |                       |                       |                 |                 |                      |             |        |
| 3, Result = Read level + Antenna factor + cable loss-Amp factor                                   |                     |                       |                       |                 |                 |                      |             |        |
| 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit. |                     |                       |                       |                 |                 |                      |             |        |

| Band Edge Test result                                                                             |                     |                       |                       |                 |                 |                      |             |           |
|---------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|-----------------|-----------------|----------------------|-------------|-----------|
| EUT: Camera                                                                                       |                     |                       | M/N: GD100L           |                 |                 |                      |             |           |
| Power: DC 5V From Adapter with AC 120V/60Hz                                                       |                     |                       |                       |                 |                 |                      |             |           |
| Test date: 2016-01-05                                                                             |                     |                       | Test site: 3m Chamber |                 |                 | Tested by: Reak Yang |             |           |
| Test mode: Tx Low                                                                                 |                     |                       |                       |                 |                 |                      |             |           |
| Antenna polarity: Vertical                                                                        |                     |                       |                       |                 |                 |                      |             |           |
| Freq (MHz)                                                                                        | Read Level (dBuV/m) | Antenna Factor (dB/m) | Cable loss(dB)        | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m)       | Margin (dB) | Remark    |
| 2390                                                                                              | 41.76               | 27.62                 | 3.92                  | 34.97           | 38.33           | 74                   | 35.67       | <b>PK</b> |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
| Antenna Polarity: Horizontal                                                                      |                     |                       |                       |                 |                 |                      |             |           |
| 2390                                                                                              | 44.75               | 27.62                 | 3.92                  | 34.97           | 41.32           | 74                   | 32.68       | <b>PK</b> |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |           |
| Note:                                                                                             |                     |                       |                       |                 |                 |                      |             |           |
| 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK                 |                     |                       |                       |                 |                 |                      |             |           |
| 2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS                |                     |                       |                       |                 |                 |                      |             |           |
| 3, Result = Read level + Antenna factor + cable loss-Amp factor                                   |                     |                       |                       |                 |                 |                      |             |           |
| 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit. |                     |                       |                       |                 |                 |                      |             |           |

| Band Edge Test result                                                                             |                     |                       |                       |                 |                 |                      |             |        |
|---------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|-----------------|-----------------|----------------------|-------------|--------|
| EUT: Camera                                                                                       |                     |                       | M/N: GD100L           |                 |                 |                      |             |        |
| Power: DC 5V From Adapter with AC 120V/60Hz                                                       |                     |                       |                       |                 |                 |                      |             |        |
| Test date: 2016-01-05                                                                             |                     |                       | Test site: 3m Chamber |                 |                 | Tested by: Reak Yang |             |        |
| Test mode: Tx High                                                                                |                     |                       |                       |                 |                 |                      |             |        |
| Antenna polarity: Vertical                                                                        |                     |                       |                       |                 |                 |                      |             |        |
| Freq (MHz)                                                                                        | Read Level (dBuV/m) | Antenna Factor (dB/m) | Cable loss(dB)        | Amp Factor (dB) | Result (dBuV/m) | Limit (dBuV/m)       | Margin (dB) | Remark |
| 2483.5                                                                                            | 47.12               | 27.89                 | 4                     | 34.97           | 44.04           | 74                   | 29.96       | PK     |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --     |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
| Antenna Polarity: Horizontal                                                                      |                     |                       |                       |                 |                 |                      |             |        |
| 2483.5                                                                                            | 49.98               | 27.89                 | 4                     | 34.97           | 46.9            | 74                   | 27.1        | PK     |
| --                                                                                                | --                  | --                    | --                    | --              | --              | --                   | --          | --     |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
|                                                                                                   |                     |                       |                       |                 |                 |                      |             |        |
| Note:                                                                                             |                     |                       |                       |                 |                 |                      |             |        |
| 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK                 |                     |                       |                       |                 |                 |                      |             |        |
| 2, Spectrum Set for AV measure: RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector: RMS                |                     |                       |                       |                 |                 |                      |             |        |
| 3, Result = Read level + Antenna factor + cable loss-Amp factor                                   |                     |                       |                       |                 |                 |                      |             |        |
| 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit. |                     |                       |                       |                 |                 |                      |             |        |

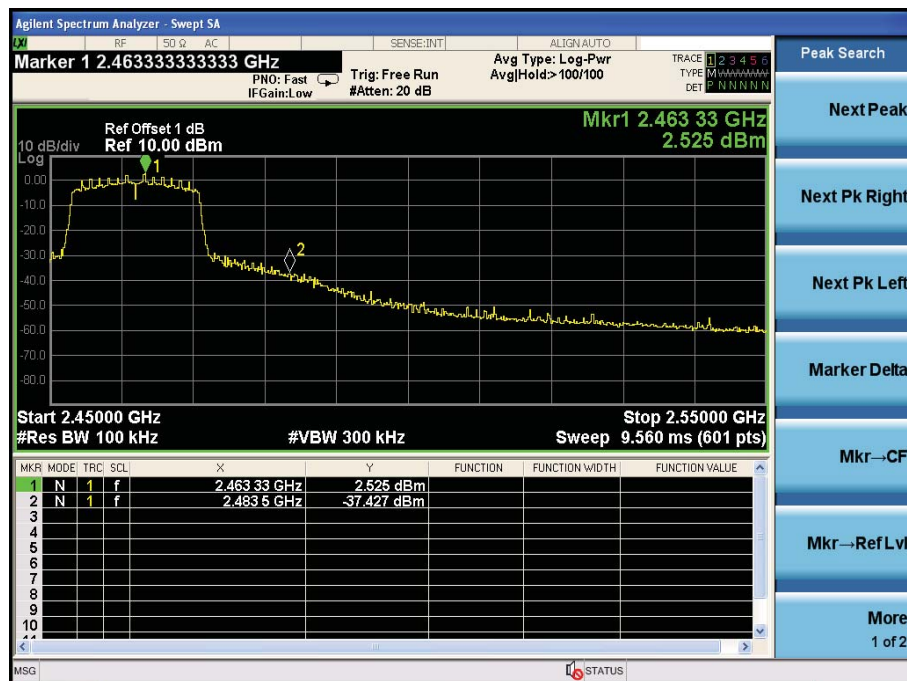
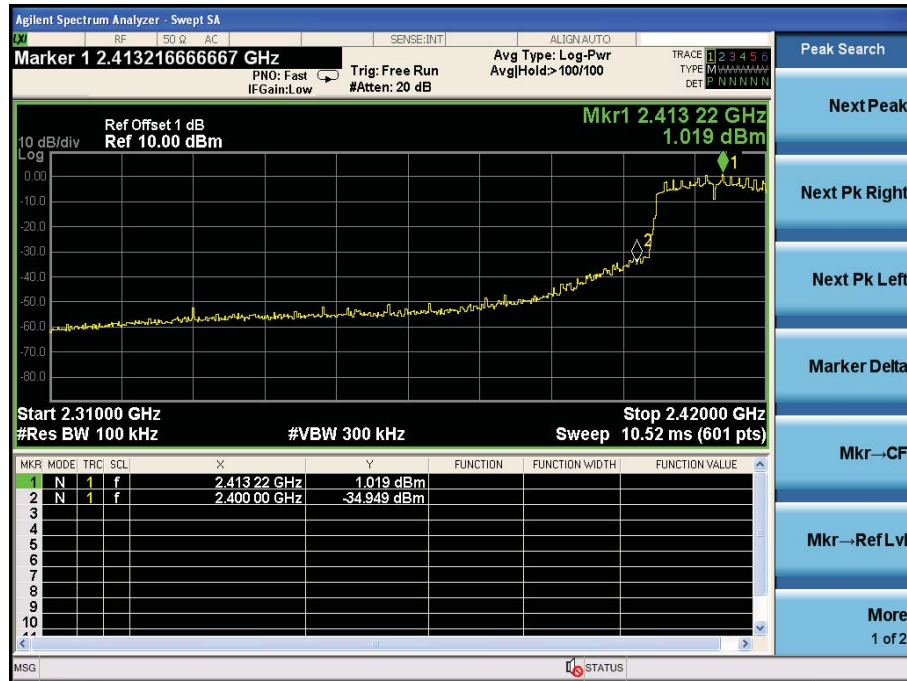
Conducted Method:  
802.11b



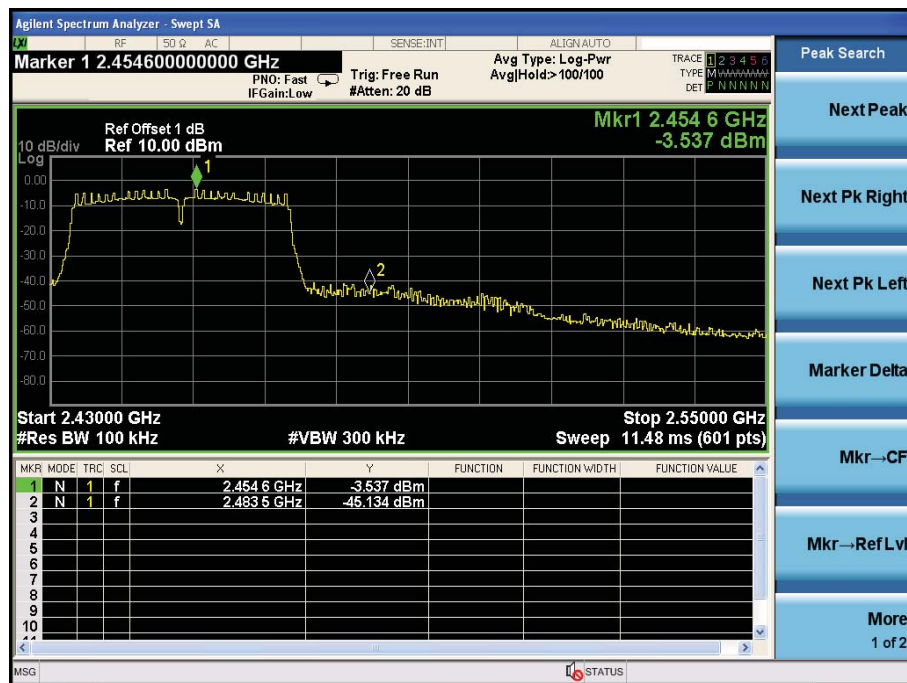
802.11g



802.11n HT20



802.11n HT40



## 11 Antenna Requirement

### 11.1 Standard Requirement

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 11.2 Antenna Connected Construction

The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

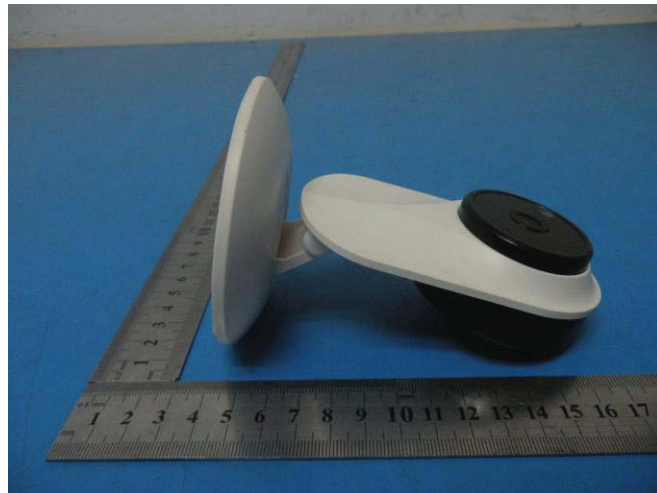
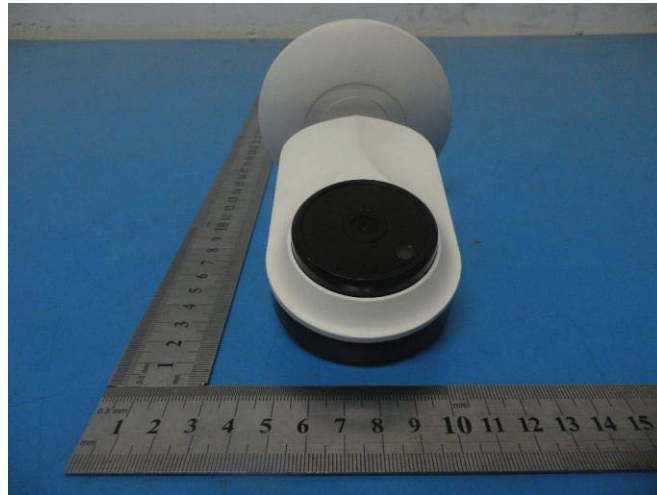
### 11.3 Result

The EUT antenna is integrated Antenna. It comply with the standard requirement.

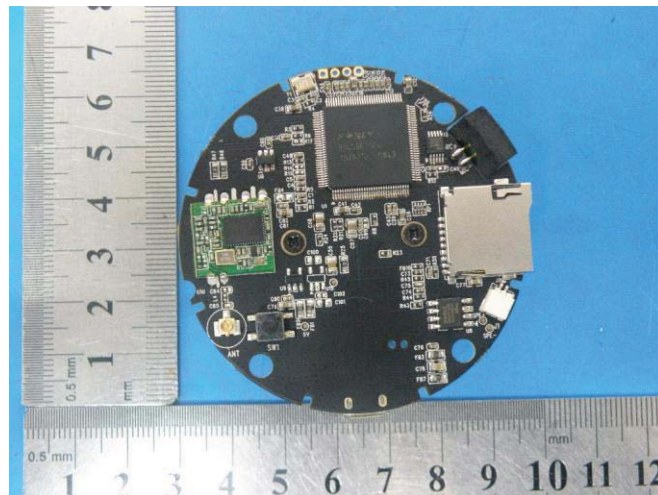
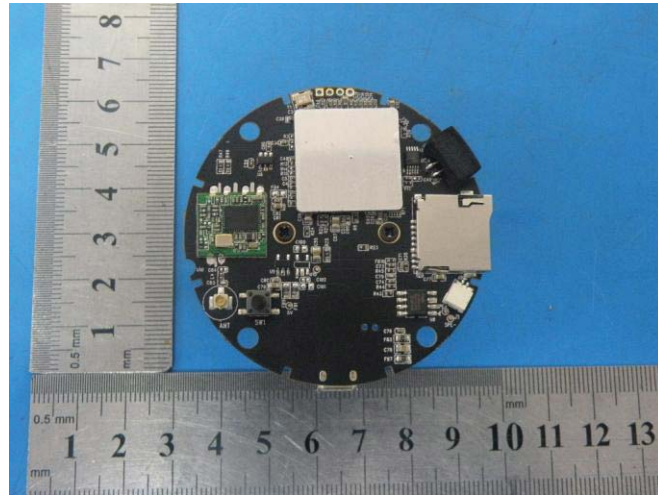
## 12 Photographs of EUT

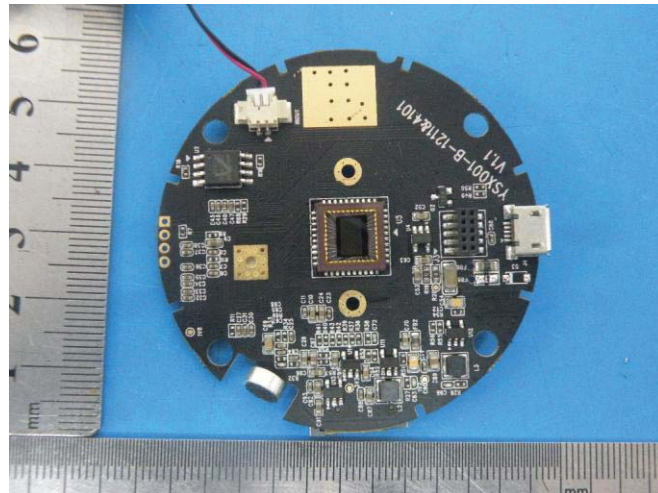
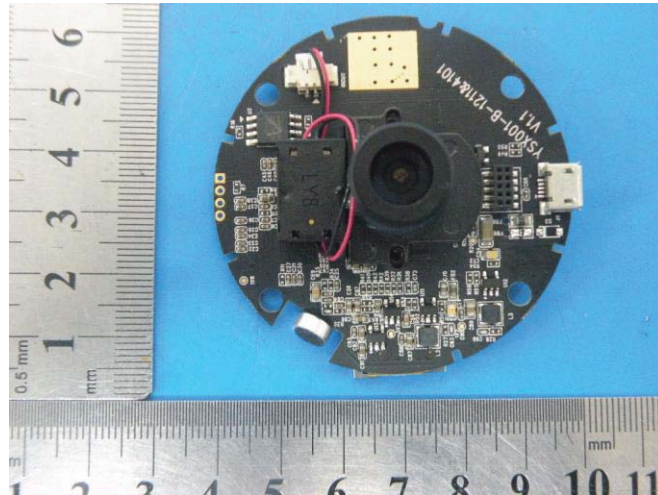


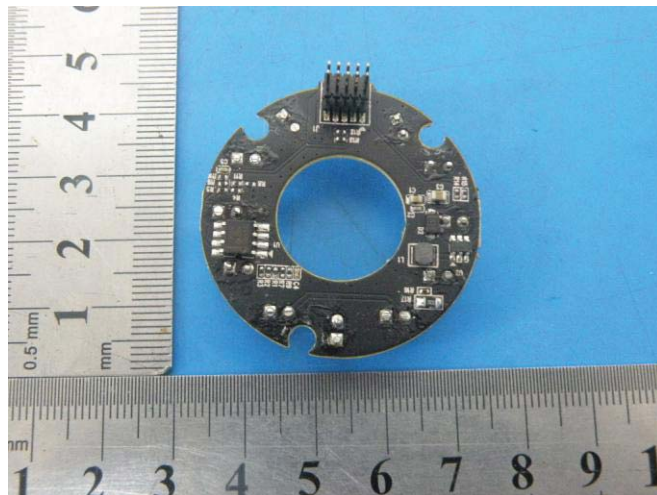
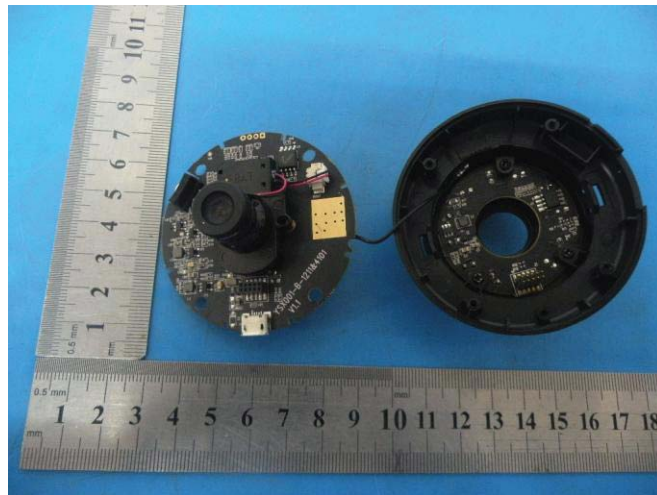














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