

FCC TEST REPORT
for
Sunco Electronic Co., Ltd

Action Camera
Model No.: SO91, SO81, SO33

Prepared for : Sunco Electronic Co., Ltd
Address : 5F, 5# Building, Minxing Industrial Park, Minkang Rd., Longhua District, Shenzhen, China

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Report Number : R011610755Z
Date of Test : Oct. 26~Nov. 16, 2016
Date of Report : Nov. 17, 2016

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TEST REPORT

Applicant : Sunco Electronic Co., Ltd
Manufacturer : Ekoo Electronic Co., Ltd.
EUT : Action Camera
Model No. : SO91, SO81, SO33
Serial No. : N.A.
Trade Mark : N.A
Rating : Input DC 5V, 1000mA (Battery DC 3.7V, 1050mAh)

Measurement Procedure Used:

FCC Part15 Subpart C 2016, Paragraph 15.207, 15.247 & 15.209

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test : Oct. 26~Nov. 16, 2016

Prepared by : Baron Wen
(Tested Engineer / Baron Wen)

Reviewer : Dolly Mo
(Project Manager / Dolly Mo)

Approved & Authorized Signer : Tom Chen
(Manager / Tom Chen)

1. GENERAL INFORMATION

1.1 Description of Device (EUT)

| | |
|----------------------|---|
| EUT | : Action Camera |
| Model Number | : SO91, SO81, SO33 (Note: All samples are the same except the model number and colour, so we prepare "SO91" for test only.) |
| Test Power Supply | : AC 120V, 60Hz for adapter/ AC 240V, 60Hz for adapter/ DC 3.7V Battery inside |
| Frequency | : WiFi: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40)) BT3.0: 2402~2480MHz BT4.0: 2402~2480MHz |
| Modulation | : WiFi: 802.11b CCK; 802.11g OFDM; 802.11n MCS BT3.0: GFSK, $\pi/4$ DQPSK, 8DPSK BT4.0: GFSK |
| Channel | : WiFi: 11 For (802.11b/802.11g/802.11n(HT20)) 7 For (802.11n(HT40)) BT4.0: 40 |
| Antenna Type | : External |
| Antenna Gain | : -3dBi |
| Applicant Address | : Sunco Electronic Co., Ltd : 5F, 5# Building, Minxing Industrial Park, Minkang Rd., Longhua District, Shenzhen, China |
| Manufacturer Address | : Ekoo Electronic Co., Ltd. : 3F, Building A, Mantong Industrial Pafu Industrial Zone, Guanlan Street, Longhua District, Shenzhen, China |
| Factory Address | : Ekoo Electronic Co., Ltd. : 3F, Building A, Mantong Industrial Pafu Industrial Zone, Guanlan Street, Longhua District, Shenzhen, China |
| Date of receipt | : Oct. 26, 2016 |
| Date of Test | : Oct. 26~Nov. 16, 2016 |
| Note | : This report is for BT3.0 module |

1.2 Auxiliary Equipment Used during Test

Adapter : Manufacturer: Samsung
M/N: ETA-U90CBC
S/N: RT6FB17ZS/B-E
Input: AC 100-240V, 50-60Hz, 0.35A
Output: DC 5V, 2A

1.3 Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 752021

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 752021, July 06, 2016.

IC-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited., EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration 8058A, Jun. 13, 2016.

Test Location

All Emissions tests were performed at Shenzhen Anbotek Compliance Laboratory Limited. at 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road, Nanshan District, Shenzhen, Guangdong, China

1.4 Measurement Uncertainty

Radiation Uncertainty : Ur = 4.1 dB (Horizontal)

Ur = 4.3 dB (Vertical)

Conduction Uncertainty : Uc = 3.4dB

2. Test Procedure

GENERAL: This report shall NOT be reproduced except in full without the written approval of Shenzhen Anbotek Compliance Laboratory Limited. The EUT was transmitting a test signal during the testing.

RADIATION INTERFERENCE: The test procedure used was ANSI STANDARD C63.10-2013 using a spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHz and the video bandwidth was 300KHz up to 1.0GHz and 1.0MHz with a video BW of 3.0MHz above 1.0GHz. The ambient temperature of the EUT was 74.3oF with a humidity of 69%.

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. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF = FS
20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

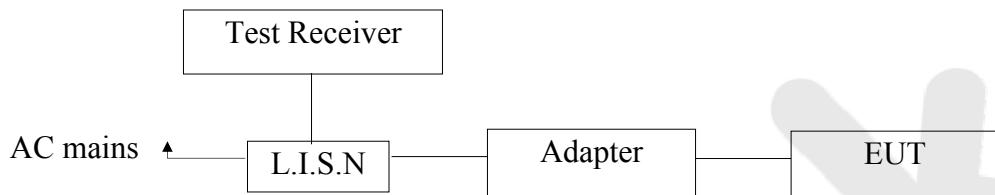
ANSI STANDARD C63.10-2013 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

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.

3. Conducted Emission

3.1 Block Diagram of Test Setup

3.1.1. Block diagram of connection between the EUT and simulators



3.2 Power Line Conducted Emission Measurement Limits (15.207)

| Frequency MHz | Limits dB(μ 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.

3.3 Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4 Operating Condition of EUT

- 3.4.1. Setup the EUT and simulator as shown as Section 3.1.
- 3.4.2. Turn on the power of all equipment.
- 3.4.3. Let the EUT work in test mode (Charge Mode) and measure it.

3.5 Test Procedure

The EUT system 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 line 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 FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test results are reported on Section 3.6.

Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------|----------------------|-----------|------------|---------------|---------------|
| 1. | Two-Line V-network | Rohde & Schwarz | ENV216 | 100055 | Apr. 16, 2016 | 1 Year |
| 2. | EMI Test Receiver | Rohde & Schwarz | ESCI | 100627 | Apr. 16, 2016 | 1 Year |
| 3. | RF Switching Unit | Compliance Direction | RSU-M2 | 38303 | Apr. 16, 2016 | 1 Year |

3.6 Power Line Conducted Emission Measurement Results

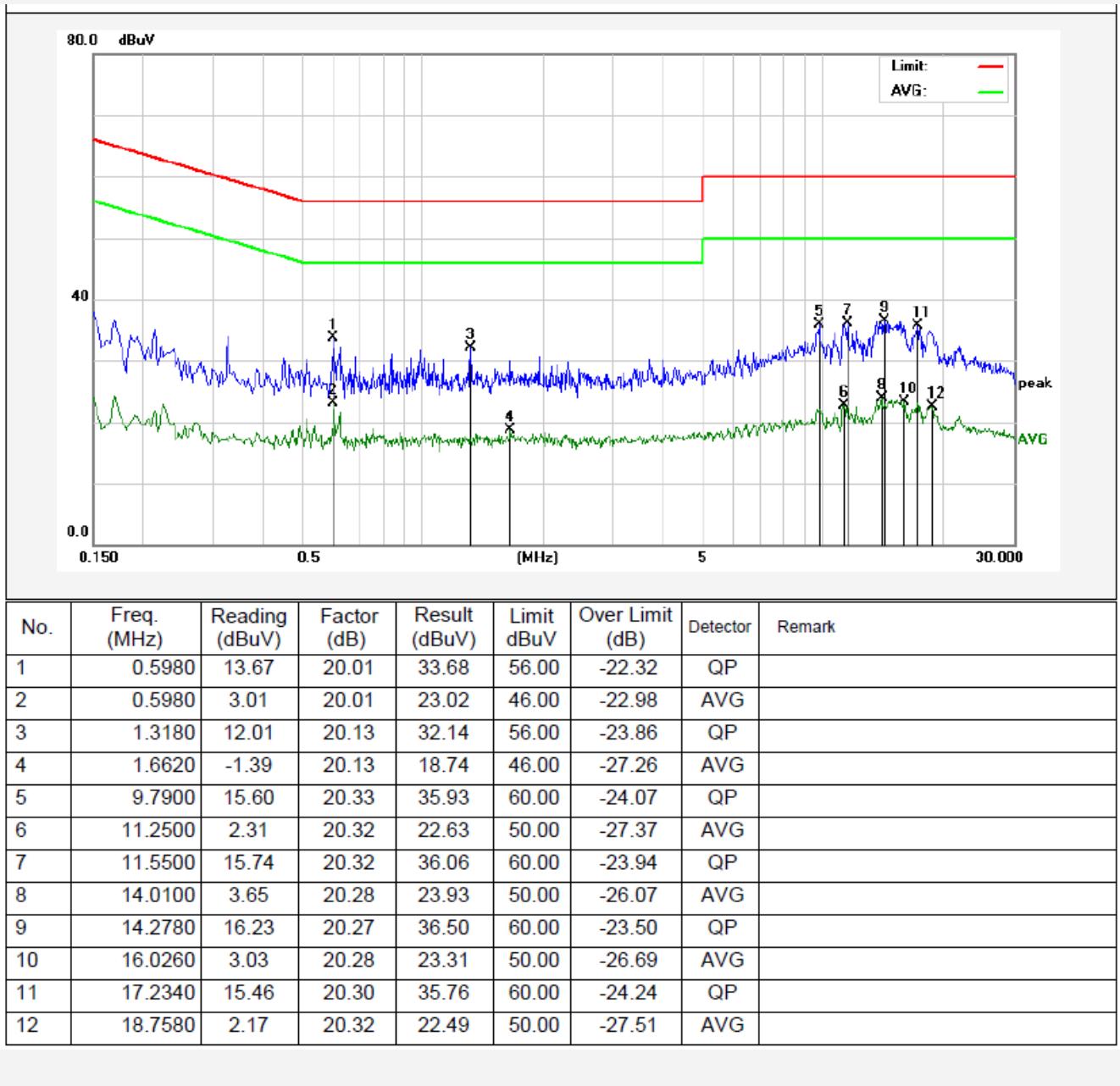
PASS.

The frequency range from 150KHz to 30 MHz is investigated.

Please refer the following pages.

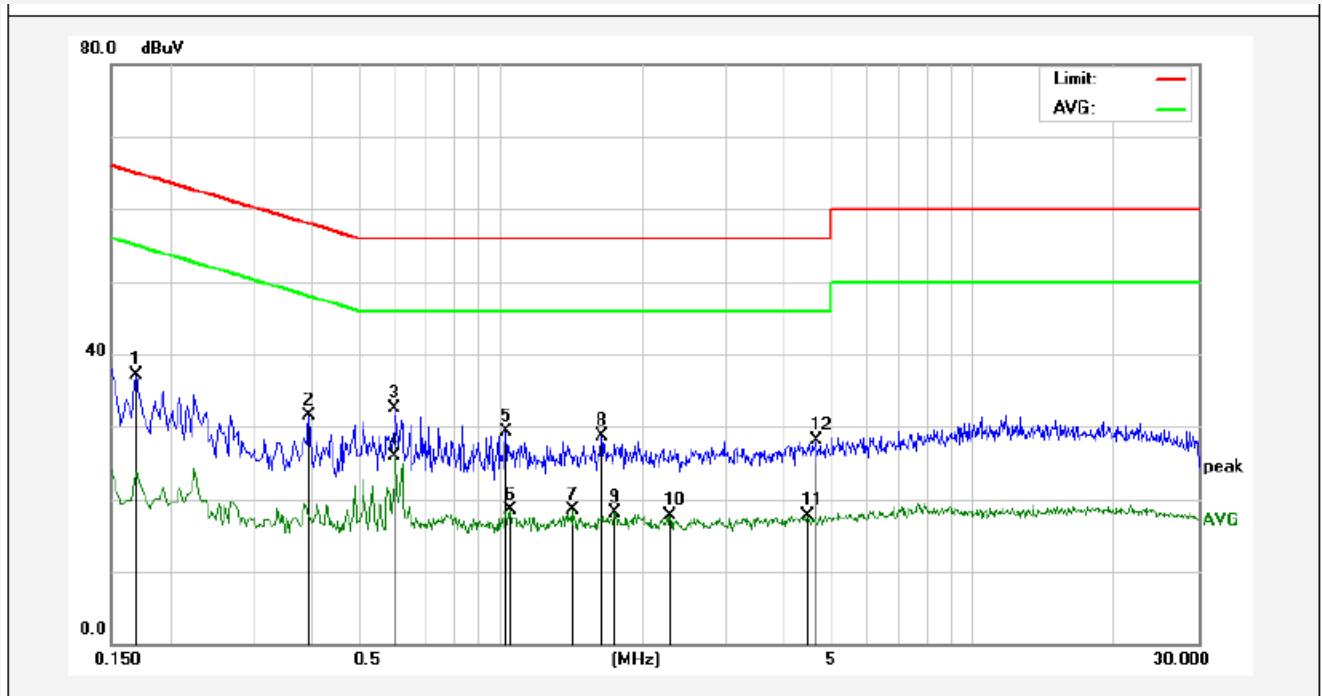
CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room
 Operating Condition: Charge Mode
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Live Line
 Tem.:25°C Hum.:50%



CONDUCTED EMISSION TEST DATA

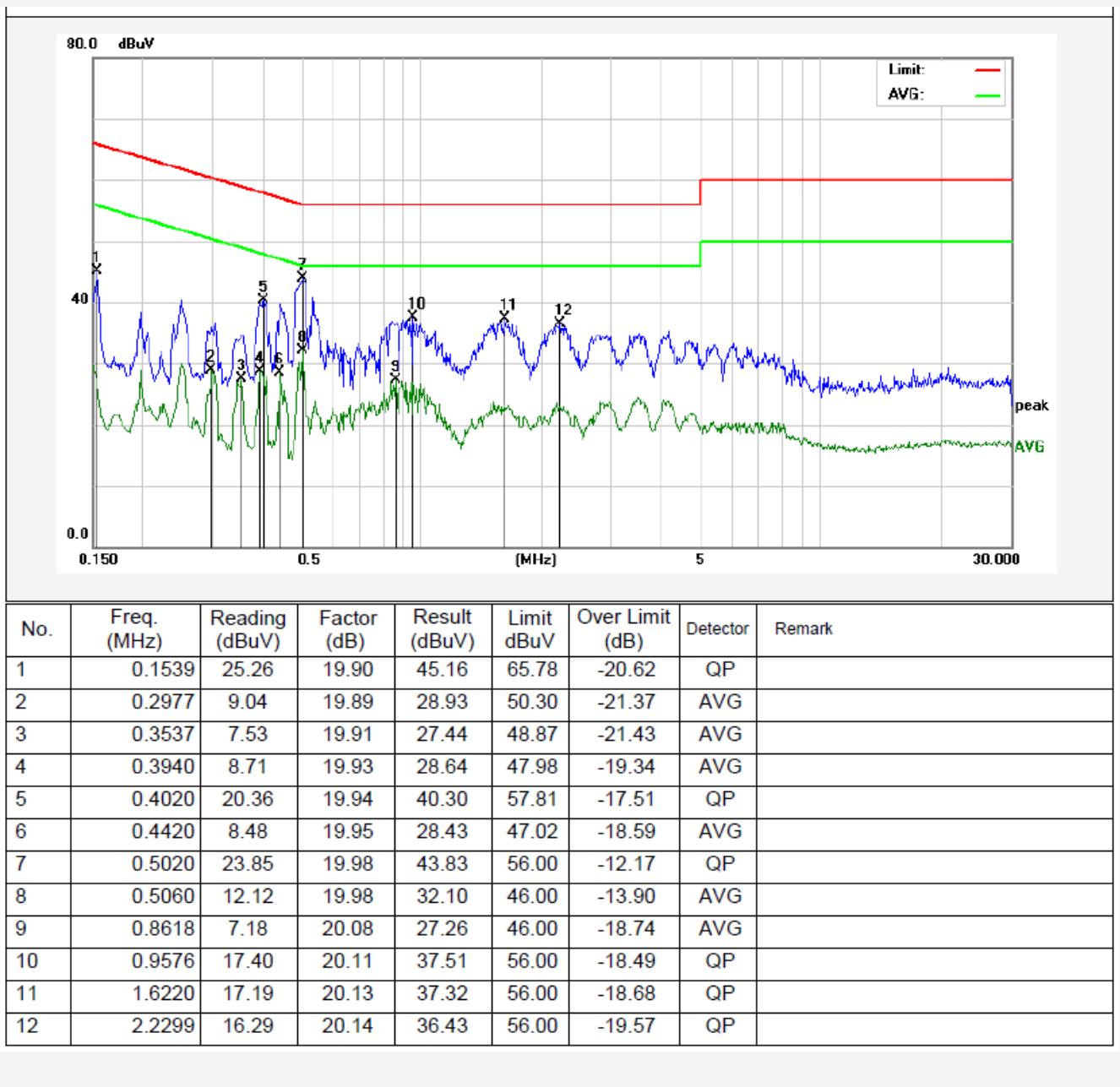
Test Site: 1# Shielded Room
 Operating Condition: Charge Mode
 Test Specification: AC 120V, 60Hz for adapter
 Comment: Neutral Line
 Tem.:25°C Hum.:50%



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit dBuV | Over Limit (dB) | Detector | Remark |
|-----|----------------|-------------------|----------------|------------------|---------------|--------------------|----------|--------|
| 1 | 0.1700 | 17.27 | 19.90 | 37.17 | 64.96 | -27.79 | QP | |
| 2 | 0.3940 | 11.49 | 19.93 | 31.42 | 57.98 | -26.56 | QP | |
| 3 | 0.5980 | 12.42 | 20.01 | 32.43 | 56.00 | -23.57 | QP | |
| 4 | 0.5980 | 5.87 | 20.01 | 25.88 | 46.00 | -20.12 | AVG | |
| 5 | 1.0300 | 9.20 | 20.12 | 29.32 | 56.00 | -26.68 | QP | |
| 6 | 1.0540 | -1.61 | 20.12 | 18.51 | 46.00 | -27.49 | AVG | |
| 7 | 1.4220 | -1.71 | 20.13 | 18.42 | 46.00 | -27.58 | AVG | |
| 8 | 1.6420 | 8.53 | 20.13 | 28.66 | 56.00 | -27.34 | QP | |
| 9 | 1.7500 | -1.94 | 20.13 | 18.19 | 46.00 | -27.81 | AVG | |
| 10 | 2.2860 | -2.36 | 20.15 | 17.79 | 46.00 | -28.21 | AVG | |
| 11 | 4.4620 | -2.48 | 20.19 | 17.71 | 46.00 | -28.29 | AVG | |
| 12 | 4.6700 | 7.98 | 20.20 | 28.18 | 56.00 | -27.82 | QP | |

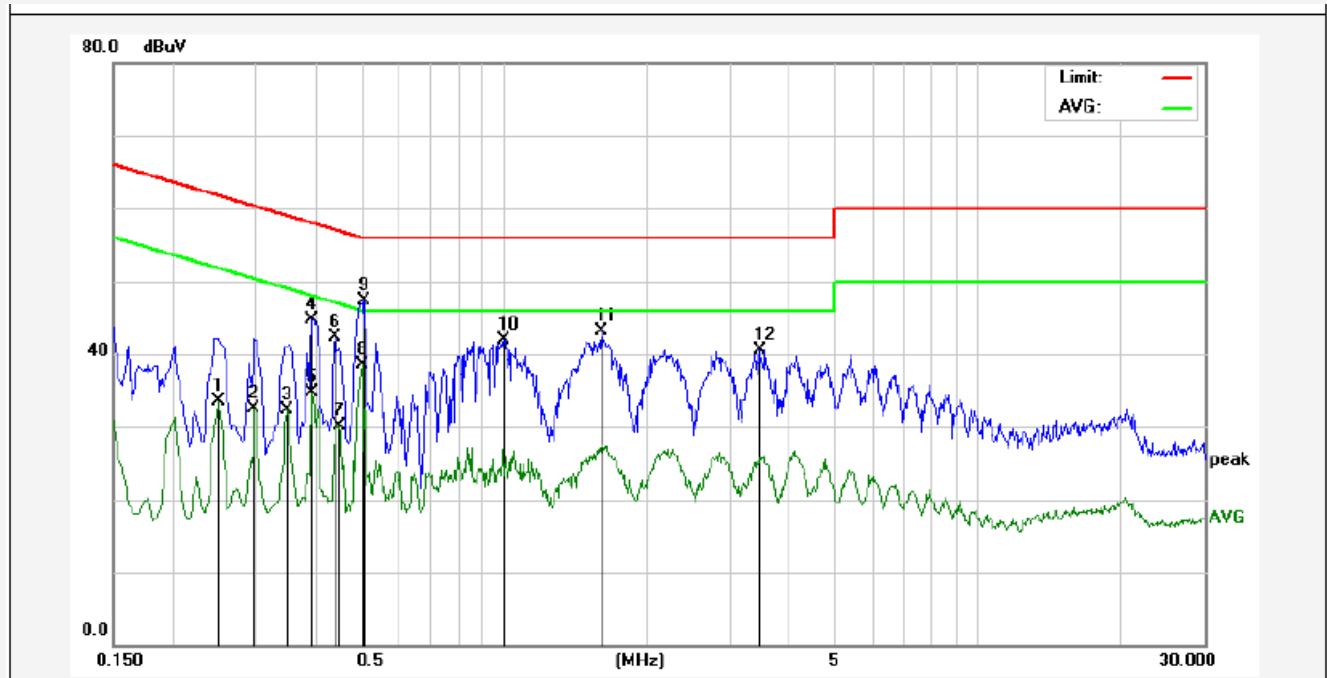
CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room
 Operating Condition: Charge Mode
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Live Line
 Tem.:25°C Hum.:50%



CONDUCTED EMISSION TEST DATA

Test Site: 1# Shielded Room
 Operating Condition: Charge Mode
 Test Specification: AC 240V, 60Hz for adapter
 Comment: Neutral Line
 Tem.:25°C Hum.:50%



| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit dBuV | Over Limit (dB) | Detector | Remark |
|-----|----------------|-------------------|----------------|------------------|---------------|--------------------|----------|--------|
| 1 | 0.2500 | 13.63 | 19.89 | 33.52 | 51.75 | -18.23 | AVG | |
| 2 | 0.2977 | 12.66 | 19.89 | 32.55 | 50.30 | -17.75 | AVG | |
| 3 | 0.3497 | 12.30 | 19.91 | 32.21 | 48.97 | -16.76 | AVG | |
| 4 | 0.3940 | 24.85 | 19.93 | 44.78 | 57.98 | -13.20 | QP | |
| 5 | 0.3940 | 14.70 | 19.93 | 34.63 | 47.98 | -13.35 | AVG | |
| 6 | 0.4420 | 22.33 | 19.95 | 42.28 | 57.02 | -14.74 | QP | |
| 7 | 0.4500 | 10.06 | 19.96 | 30.02 | 46.87 | -16.85 | AVG | |
| 8 | 0.5020 | 18.45 | 19.98 | 38.43 | 46.00 | -7.57 | AVG | |
| 9 | 0.5100 | 27.32 | 19.98 | 47.30 | 56.00 | -8.70 | QP | |
| 10 | 1.0020 | 21.82 | 20.12 | 41.94 | 56.00 | -14.06 | QP | |
| 11 | 1.6019 | 22.91 | 20.13 | 43.04 | 56.00 | -12.96 | QP | |
| 12 | 3.4580 | 20.39 | 20.17 | 40.56 | 56.00 | -15.44 | QP | |

4. Radiation Interference

4.1 Requirements (15.247, 15.209):

4.1.1. Test Limits (< 30 MHZ)

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meter) |
|--------------------|--------------------------------------|---------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |

4.1.2. Test Limits (\geq 30 MHZ)

| FIELD STRENGTH of Fundamental: @3M | FIELD STRENGTH of Harmonics 54 dB μ V/m @3m | S15.209 30 - 88 MHz | 40 dB μ V/m |
|--|---|------------------------|-----------------|
| 902-928 MHZ | | 88 - 216 MHz | 43.5 |
| 2.4-2.4835 GHz | | 216 - 960 MHz | 46 |
| 94 dB μ V/m @3m | | ABOVE 960 MHz | 54dB μ V/m |

For range 9KHz~30MHz, The measured value is really too low to be recorded.

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in 15.209, whichever is the lesser attenuation.

4.2 Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.
 For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.
 The turn table can rotate 360 degrees to determine the position of the maximum emission level.
 The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower.
 The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 30MHz to 1000MHz:

Set the spectrum analyzer as:
 RBW = 100kHz, VBW =300kHz,
 Detector= Quasi-Peak
 Trace mode= Max hold.
 Sweep- auto couple.

For Above 1GHz:

Set the spectrum analyzer as:
 RBW = 1MHz, VBW =3MHz,
 Detector= Peak
 Trace mode= Max hold.
 Sweep- auto couple.

Set the spectrum analyzer as:

RBW =1MHz, VBW =10Hz

Detector= Average

Trace mode= Max hold.

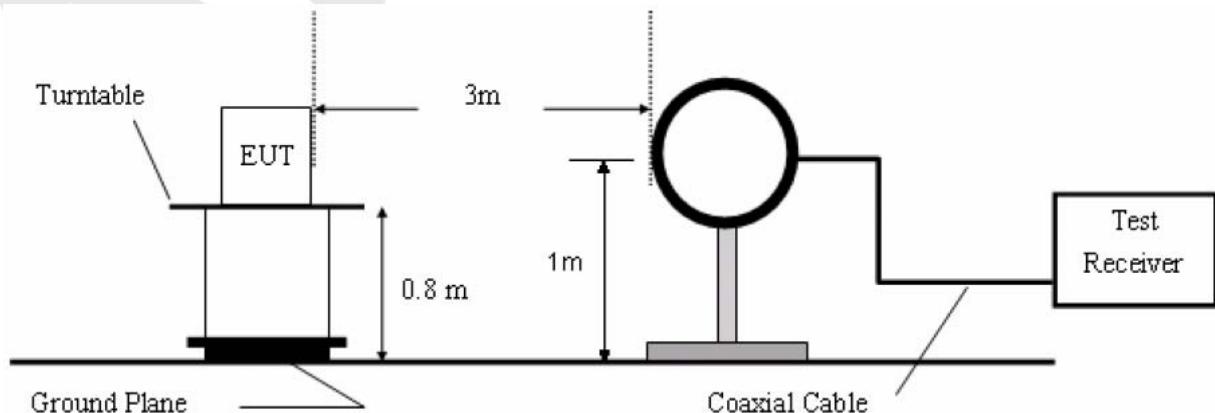
Sweep- auto couple.

Test Equipment

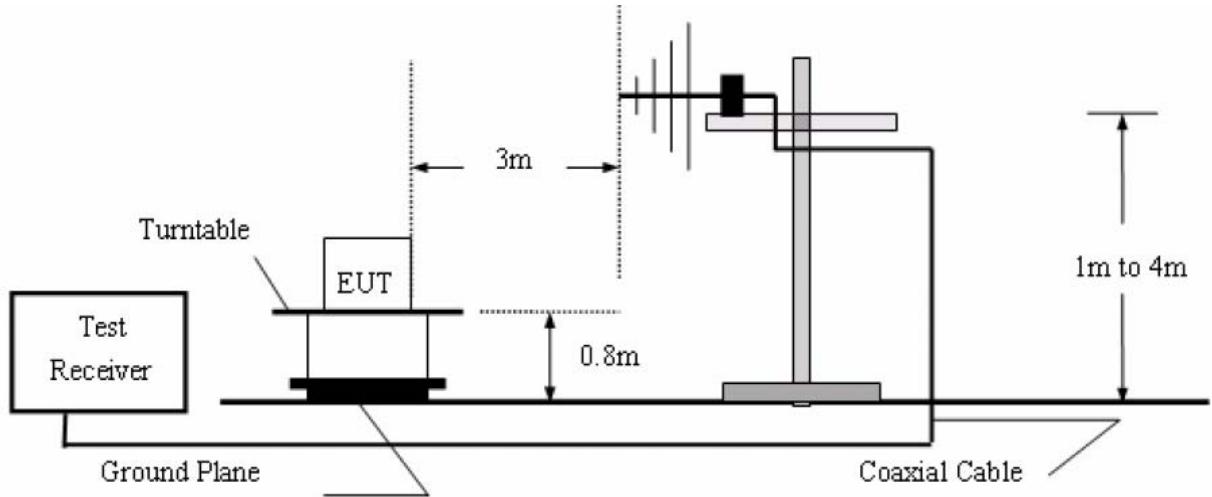
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------------------|-------------------------|---------------|----------------|---------------|---------------|
| 1. | Spectrum Analysis | Agilent | E4407B | US39390582 | Apr. 16, 2016 | 1 Year |
| 2. | Preamplifier | Instruments corporation | EMC011830 | 980100 | Apr. 16, 2016 | 1 Year |
| 3. | EMI Test Receiver | Rohde & Schwarz | ESPI | 101604 | Apr. 16, 2016 | 1 Year |
| 4. | Double Ridged Horn Antenna | Instruments corporation | GTH-0118 | 351600 | Apr. 19, 2016 | 1 Year |
| 5. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | VULB 9163-289 | Apr. 19, 2016 | 1 Year |
| 6. | Pre-amplifier | SONOMA | 310N | 186860 | Apr. 16, 2016 | 1 Year |
| 7. | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | N/A | N/A |
| 8 | Power Sensor | DAER | RPR3006 W | 15I00041SN0 46 | Jun 30, 2016 | 1 Year |
| 9 | MXA Spectrum Analysis | Agilent | N9020A | MY51170037 | Jun 30, 2016 | 1 Year |
| 10 | MXG RF Vector Signal Generator | Agilent | N5182A | MY48180656 | Jun 30, 2016 | 1 Year |
| 11 | Signal Generator | Agilent | E4421B | MY41000743 | Jun 30, 2016 | 1 Year |
| 12 | DC Power supply | IV | IV-8080 | YQSB0096 | Jun 30, 2016 | 1 Year |
| 13 | TEMP&HUMI PROGRAMMABLE CHAMBER | Bell Group | BE-THK-1 50M8 | SE-0137 | Mar. 16, 2016 | 1 Year |

4.3 Test Configuration

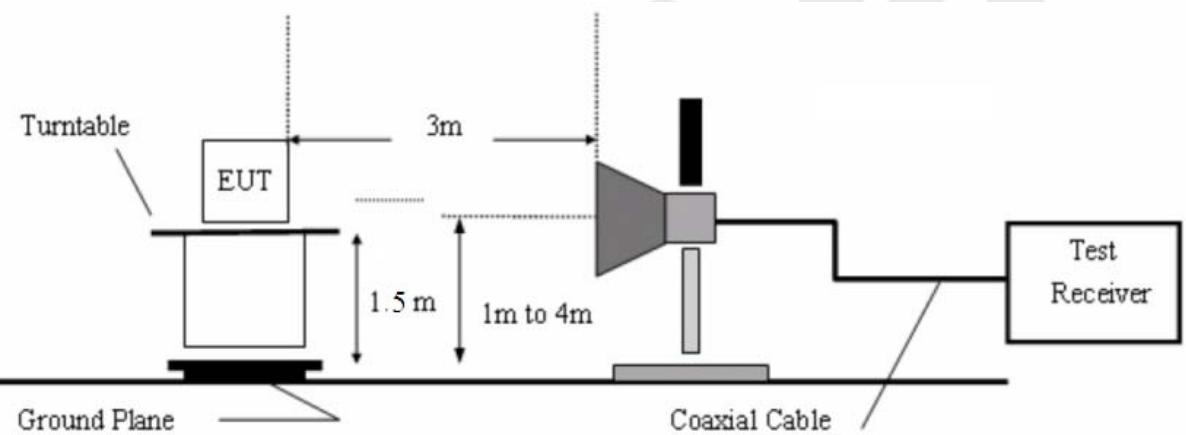
4.3.1. 9k to 30MHz emissions:



4.3.2. 30M to 1G emissions:



4.3.3. 1G to 40G emissions:



4.4 Test Results

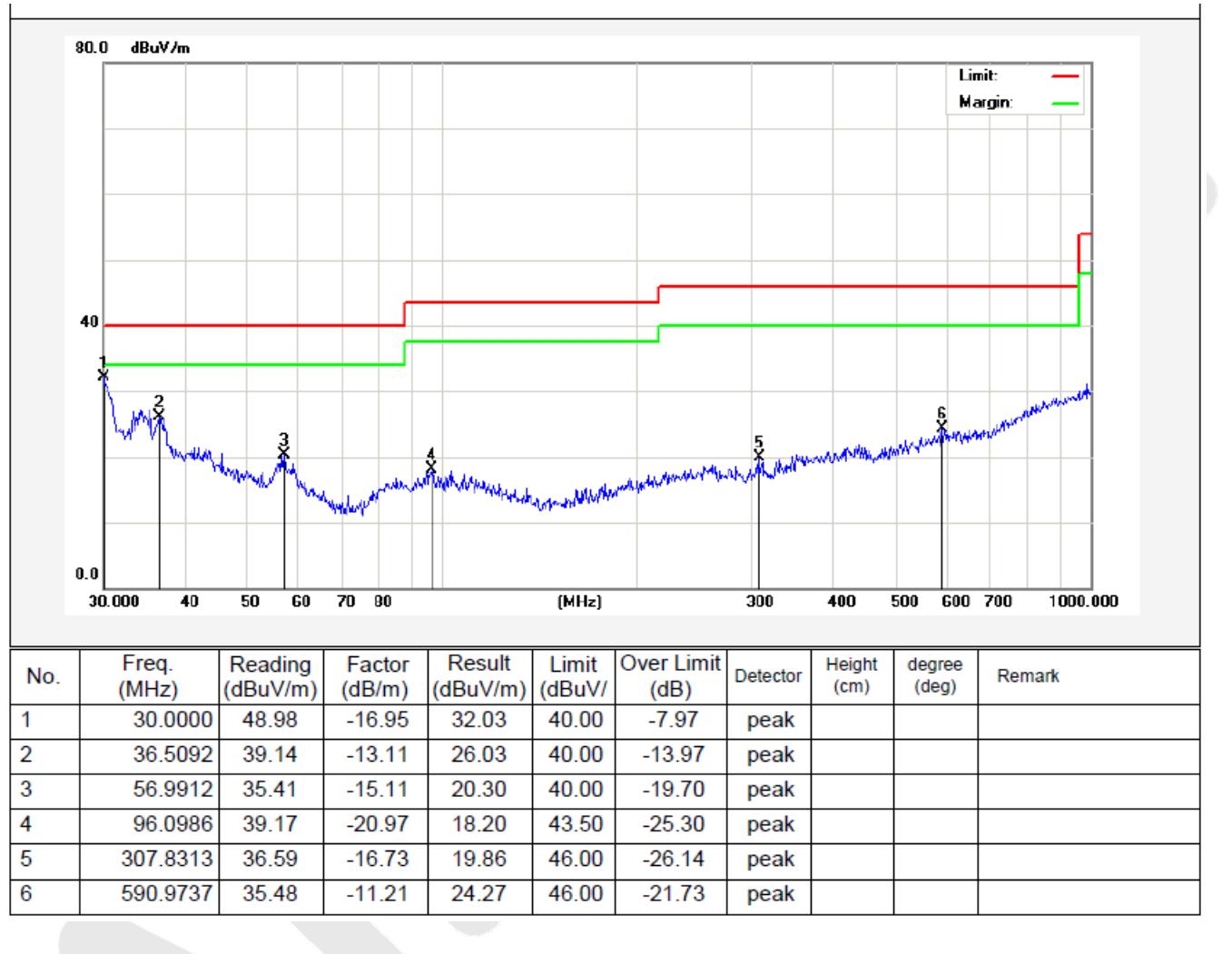
PASS.

The EUT was tested on (Charge Mode, BT Mode, WiFi Mode, Record Mode, Play Back Mode) modes, only the worst data of (Charge Mode) is attached in the following pages.
Only the worst case (x orientation).

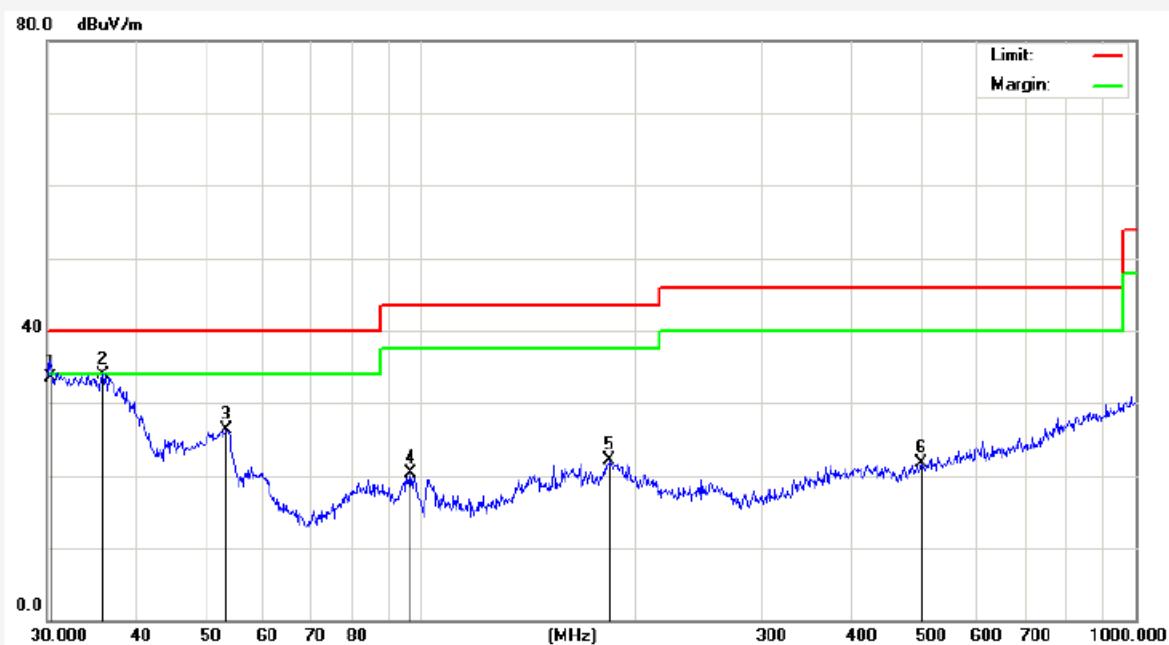
The EDR was tested on ($\pi/4$ DQPSK, 8DPSK) modes, only the worst data of ($\pi/4$ DQPSK) is attached in the following pages.

The test results of above 18000MHz are attenuated more than 20dB below the permissible limits, so the results don't record in the report.

| | | | |
|-------------------|------------------------------------|----------------------------|----------------------------------|
| Job No.: | 011610755I | Polarization: | Horizontal |
| Standard: | (RE)FCC PART 15C _3m | Power Source: | AC 120V, 60Hz for adapter |
| Test item: | Radiation Test (30~1000MHz) | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Test Mode: | Charge Mode | Distance: | 3m |

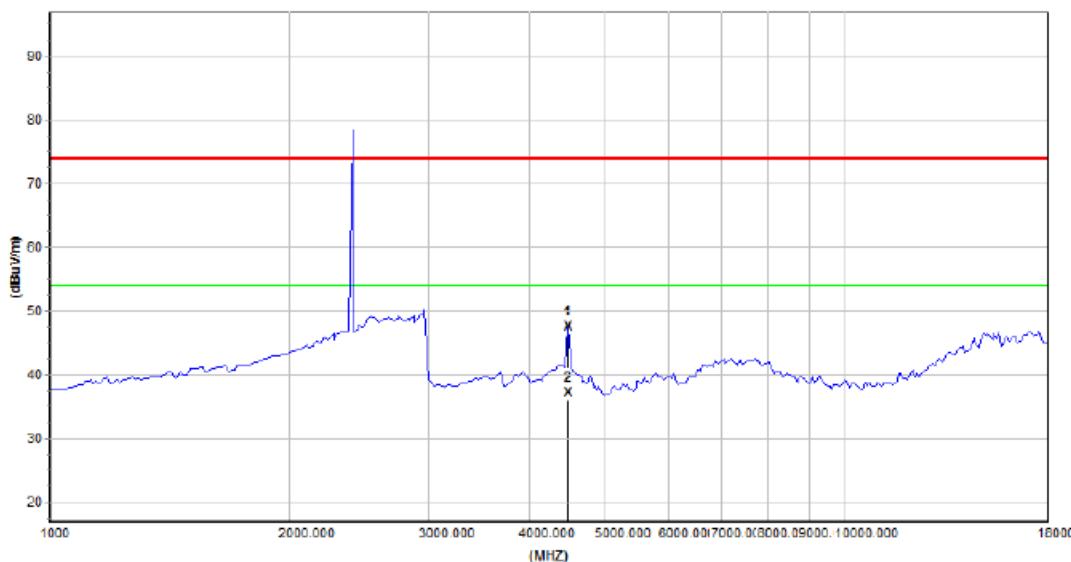


| | | | |
|-------------------|------------------------------------|----------------------------|----------------------------------|
| Job No.: | 011610755I | Polarization: | Vertical |
| Standard: | (RE)FCC PART 15C _3m | Power Source: | AC 120V, 60Hz for adapter |
| Test item: | Radiation Test (30~1000MHz) | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Test Mode: | Charge Mode | Distance: | 3m |



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV) | Over Limit (dB) | Detector | Height (cm) | degree (deg) | Remark |
|-----|-------------|------------------|---------------|-----------------|--------------|-----------------|----------|-------------|--------------|--------|
| 1 | 30.3173 | 50.28 | -16.77 | 33.51 | 40.00 | -6.49 | QP | 100 | 0 | |
| 2 | 35.8746 | 47.54 | -13.61 | 33.93 | 40.00 | -6.07 | peak | | | |
| 3 | 53.5052 | 41.12 | -14.82 | 26.30 | 40.00 | -13.70 | peak | | | |
| 4 | 96.7749 | 36.24 | -15.93 | 20.31 | 43.50 | -23.19 | peak | | | |
| 5 | 183.8440 | 38.58 | -16.49 | 22.09 | 43.50 | -21.41 | peak | | | |
| 6 | 501.1790 | 32.70 | -10.94 | 21.76 | 46.00 | -24.24 | peak | | | |

| | | | |
|-------------------|------------------------------------|----------------------------|-------------------------------|
| Job No.: | 011610755I | Polarization: | Horizontal |
| Standard: | (RE)FCC PART 15C_Class B_3m | Power Source: | DC 3.7V Battery inside |
| Test item: | Radiation Test (Above 1GHz) | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Test Mode: | TX(2402 MHz) | Distance: | 3m |



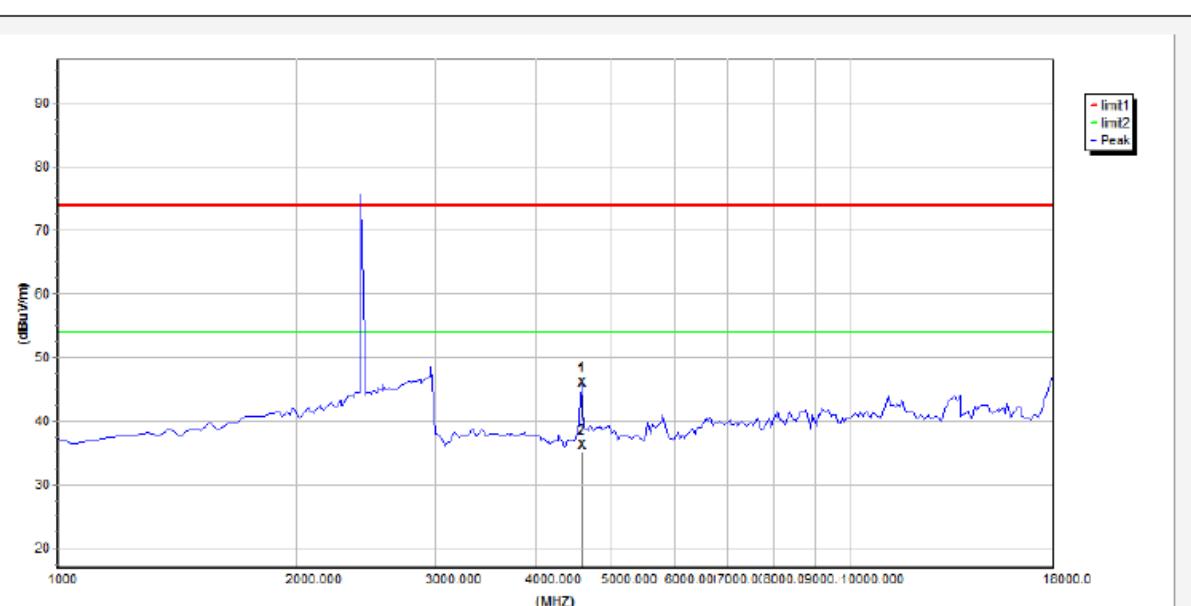
| No. | Freq. (MHz) | Reading (dBuV/m) | Antenna (dB/m) | Amp. (dB/m) | Cable (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) |
|-----|-------------|------------------|----------------|-------------|--------------|-----------------|----------------|-----------------|----------|-------------|--------------|
| 1 | 4485.0000 | 42.63 | 32.72 | 34.08 | 6.16 | 47.43 | 74.00 | -26.57 | peak | --- | --- |
| 2 | 4485.0000 | 32.31 | 32.72 | 34.08 | 6.16 | 37.11 | 54.00 | -16.89 | AVG | --- | --- |

| | | | |
|-------------------|------------------------------------|----------------------------|-------------------------------|
| Job No.: | 011610755I | Polarization: | Vertical |
| Standard: | (RE)FCC PART 15C_Class B_3m | Power Source: | DC 3.7V Battery inside |
| Test item: | Radiation Test (Above 1GHz) | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Test Mode: | TX(2402 MHz) | Distance: | 3m |

| No. | Freq. (MHz) | Reading (dBuV/m) | Antenna (dB/m) | Amp. (dB/m) | Cable (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) |
|-----|-------------|------------------|----------------|-------------|--------------|-----------------|----------------|-----------------|----------|-------------|--------------|
| 1 | 4570.0000 | 39.80 | 33.01 | 34.09 | 6.28 | 45.00 | 74.00 | -29.00 | peak | --- | --- |
| 2 | 4570.0000 | 30.12 | 33.01 | 34.09 | 6.28 | 35.32 | 54.00 | -18.68 | AVG | --- | --- |

| | | | | | | | | | | | |
|-------------------|------------------------------------|-------------------------|----------------------------|-------------------------------|---------------------|------------------------|-----------------------|------------------------|-----------------|--------------------|---------------------|
| Job No.: | 011610755I | | Polarization: | Horizontal | | | | | | | |
| Standard: | (RE)FCC PART 15C_Class B_3m | | Power Source: | DC 3.7V Battery inside | | | | | | | |
| Test item: | Radiation Test (Above 1GHz) | | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH | | | | | | | |
| Test Mode: | TX(2441 MHz) | | Distance: | 3m | | | | | | | |
| | | | | | | | | | | | |
| No. | Freq. (MHz) | Reading (dBuV/m) | Antenna (dB/m) | Amp. (dB/m) | Cable (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) |
| 1 | 4697.5000 | 40.63 | 33.57 | 34.09 | 6.44 | 46.55 | 74.00 | -27.45 | peak | --- | --- |
| 2 | 4697.5000 | 30.87 | 33.57 | 34.09 | 6.44 | 36.79 | 54.00 | -17.21 | AVG | --- | --- |

| | | | |
|-------------------|------------------------------------|----------------------------|-------------------------------|
| Job No.: | 011610755I | Polarization: | Vertical |
| Standard: | (RE)FCC PART 15C_Class B_3m | Power Source: | DC 3.7V Battery inside |
| Test item: | Radiation Test (Above 1GHz) | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Test Mode: | TX(2441 MHz) | Distance: | 3m |

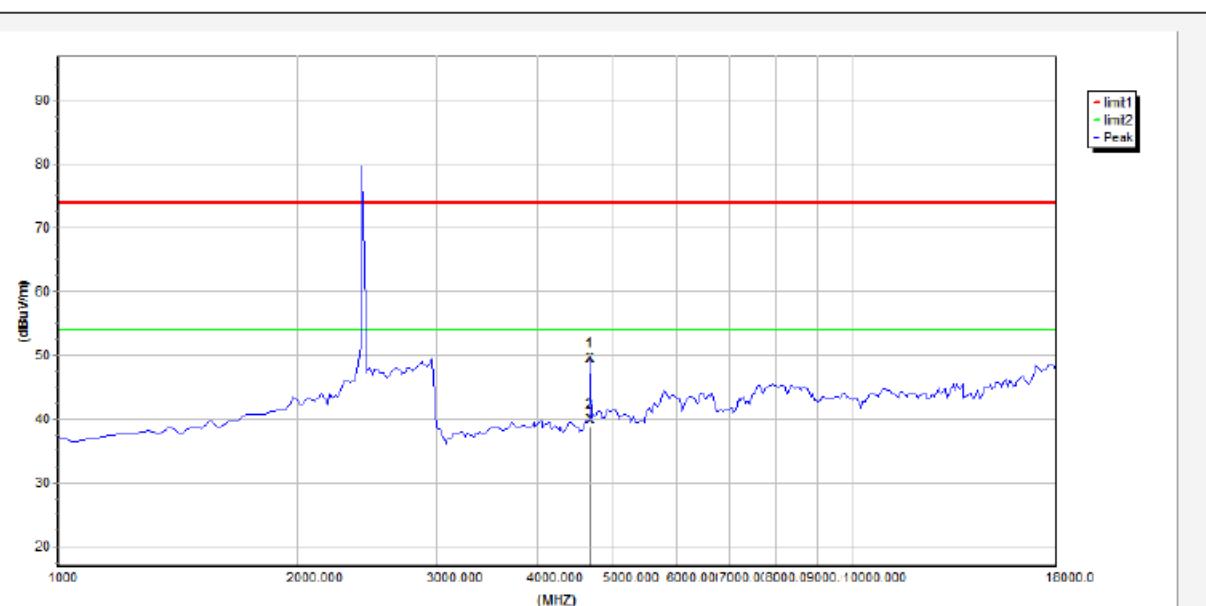


| No. | Freq. (MHz) | Reading (dBuV/m) | Antenna (dB/m) | Amp. (dB/m) | Cable (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) |
|-----|-------------|------------------|----------------|-------------|--------------|-----------------|----------------|-----------------|----------|-------------|--------------|
| 1 | 4570.0000 | 40.80 | 33.01 | 34.09 | 6.28 | 46.00 | 74.00 | -28.00 | peak | --- | --- |
| 2 | 4570.0000 | 30.93 | 33.01 | 34.09 | 6.28 | 36.13 | 54.00 | -17.87 | AVG | --- | --- |

| | | | |
|-------------------|------------------------------------|----------------------------|-------------------------------|
| Job No.: | 011610755I | Polarization: | Horizontal |
| Standard: | (RE)FCC PART 15C_Class B_3m | Power Source: | DC 3.7V Battery inside |
| Test item: | Radiation Test (Above 1GHz) | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Test Mode: | TX(2480 MHz) | Distance: | 3m |

| No. | Freq. (MHz) | Reading (dBuV/m) | Antenna (dB/m) | Amp. (dB/m) | Cable (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) |
|-----|-------------|------------------|----------------|-------------|--------------|-----------------|----------------|-----------------|----------|-------------|--------------|
| 1 | 4867.5000 | 47.28 | 34.32 | 34.09 | 6.67 | 54.18 | 74.00 | -19.82 | peak | --- | --- |
| 2 | 4867.5000 | 37.65 | 34.32 | 34.09 | 6.67 | 44.55 | 54.00 | -9.45 | AVG | --- | --- |

| | | | |
|-------------------|------------------------------------|----------------------------|-------------------------------|
| Job No.: | 011610755I | Polarization: | Vertical |
| Standard: | (RE)FCC PART 15C_Class B_3m | Power Source: | DC 3.7V Battery inside |
| Test item: | Radiation Test (Above 1GHz) | Temp.(C)/Hum.(%RH): | 24.3(C)/55%RH |
| Test Mode: | TX(2480 MHz) | Distance: | 3m |



| No. | Freq. (MHz) | Reading (dBuV/m) | Antenna (dB/m) | Amp. (dB/m) | Cable (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Detector | Height (cm) | degree (deg) |
|-----|-------------|------------------|----------------|-------------|--------------|-----------------|----------------|-----------------|----------|-------------|--------------|
| 1 | 4660.5010 | 43.65 | 33.41 | 34.09 | 6.39 | 49.36 | 74.00 | -24.64 | peak | --- | --- |
| 2 | 4660.5010 | 34.08 | 33.41 | 34.09 | 6.39 | 39.79 | 54.00 | -14.21 | AVG | --- | --- |

Radiated band edge:

| Test channel: | | | | Lowest CH | | | | |
|---------------|--|--|--|-----------|--|--|--|--|
|---------------|--|--|--|-----------|--|--|--|--|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 46.10 | 27.59 | 5.38 | 30.18 | 48.89 | 74.00 | -25.11 | Horizontal |
| 2400.00 | 63.35 | 27.58 | 5.39 | 30.18 | 66.14 | 74.00 | -7.86 | Horizontal |
| 2390.00 | 46.96 | 27.59 | 5.38 | 30.18 | 49.75 | 74.00 | -24.25 | Vertical |
| 2400.00 | 65.73 | 27.58 | 5.39 | 30.18 | 68.52 | 74.00 | -5.48 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 35.92 | 27.59 | 5.38 | 30.18 | 38.71 | 54.00 | -15.29 | Horizontal |
| 2400.00 | 47.35 | 27.58 | 5.39 | 30.18 | 50.14 | 54.00 | -3.86 | Horizontal |
| 2390.00 | 36.10 | 27.59 | 5.38 | 30.18 | 38.89 | 54.00 | -15.11 | Vertical |
| 2400.00 | 49.31 | 27.58 | 5.39 | 30.18 | 52.10 | 54.00 | -1.90 | Vertical |

| Test channel: | | | | Highest CH | | | | |
|---------------|--|--|--|------------|--|--|--|--|
|---------------|--|--|--|------------|--|--|--|--|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 48.59 | 27.53 | 5.47 | 29.93 | 51.66 | 74.00 | -22.34 | Horizontal |
| 2500.00 | 47.15 | 27.55 | 5.49 | 29.93 | 50.26 | 74.00 | -23.74 | Horizontal |
| 2483.50 | 49.97 | 27.53 | 5.47 | 29.93 | 53.04 | 74.00 | -20.96 | Vertical |
| 2500.00 | 48.45 | 27.55 | 5.49 | 29.93 | 51.56 | 74.00 | -22.44 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 38.79 | 27.53 | 5.47 | 29.93 | 41.86 | 54.00 | -12.14 | Horizontal |
| 2500.00 | 36.33 | 27.55 | 5.49 | 29.93 | 39.44 | 54.00 | -14.56 | Horizontal |
| 2483.50 | 40.27 | 27.53 | 5.47 | 29.93 | 43.34 | 54.00 | -10.66 | Vertical |
| 2500.00 | 36.52 | 27.55 | 5.49 | 29.93 | 39.63 | 54.00 | -14.37 | Vertical |

Note:

- 1, During the test, pre-scan the GFSK, Pi/4QPSK, 8DPSK modulation, and found the GFSK modulation is worse case, the report only record this mode.
- 2, Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

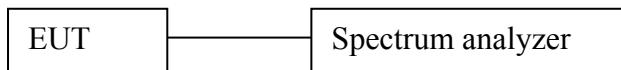
5. CHANNEL SEPARATION TEST

5.1 Measurement Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer settings:

1. Span= Wide enough to capture the peaks of two adjacent channels
2. Set the RBW = 100 kHz.
3. Set the VBW = 1.0 MHz.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

5.2 Test SET-UP



5.3 Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|--------------------------------|-------------------------|--------------|---------------|---------------|---------------|
| 1. | Spectrum Analysis | Agilent | E4407B | US39390582 | Apr. 16, 2016 | 1 Year |
| 2. | Preamplifier | Instruments corporation | EMC011830 | 980100 | Apr. 16, 2016 | 1 Year |
| 3. | EMI Test Receiver | Rohde & Schwarz | ESPI | 101604 | Apr. 16, 2016 | 1 Year |
| 4. | Double Ridged Horn Antenna | Instruments corporation | GTH-0118 | 351600 | Apr. 19, 2016 | 1 Year |
| 5. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | VULB9163-289 | Apr. 19, 2016 | 1 Year |
| 6. | Pre-amplifier | SONOMA | 310N | 186860 | Apr. 16, 2016 | 1 Year |
| 7. | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | N/A | N/A |
| 8. | Power Sensor | DAER | RPR3006W | 15I00041SN046 | Jun 30, 2016 | 1 Year |
| 9. | MXA Spectrum Analysis | Agilent | N9020A | MY51170037 | Jun 30, 2016 | 1 Year |
| 10. | MXG RF Vector Signal Generator | Agilent | N5182A | MY48180656 | Jun 30, 2016 | 1 Year |
| 11. | Signal Generator | Agilent | E4421B | MY41000743 | Jun 30, 2016 | 1 Year |
| 12. | DC Power supply | IV | IV-8080 | YQSB0096 | Jun 30, 2016 | 1 Year |
| 13. | TEMP&HUMI PROGRAMMABLE CHAMBER | Bell Group | BE-THK-150M8 | SE-0137 | Mar. 16, 2016 | 1 Year |

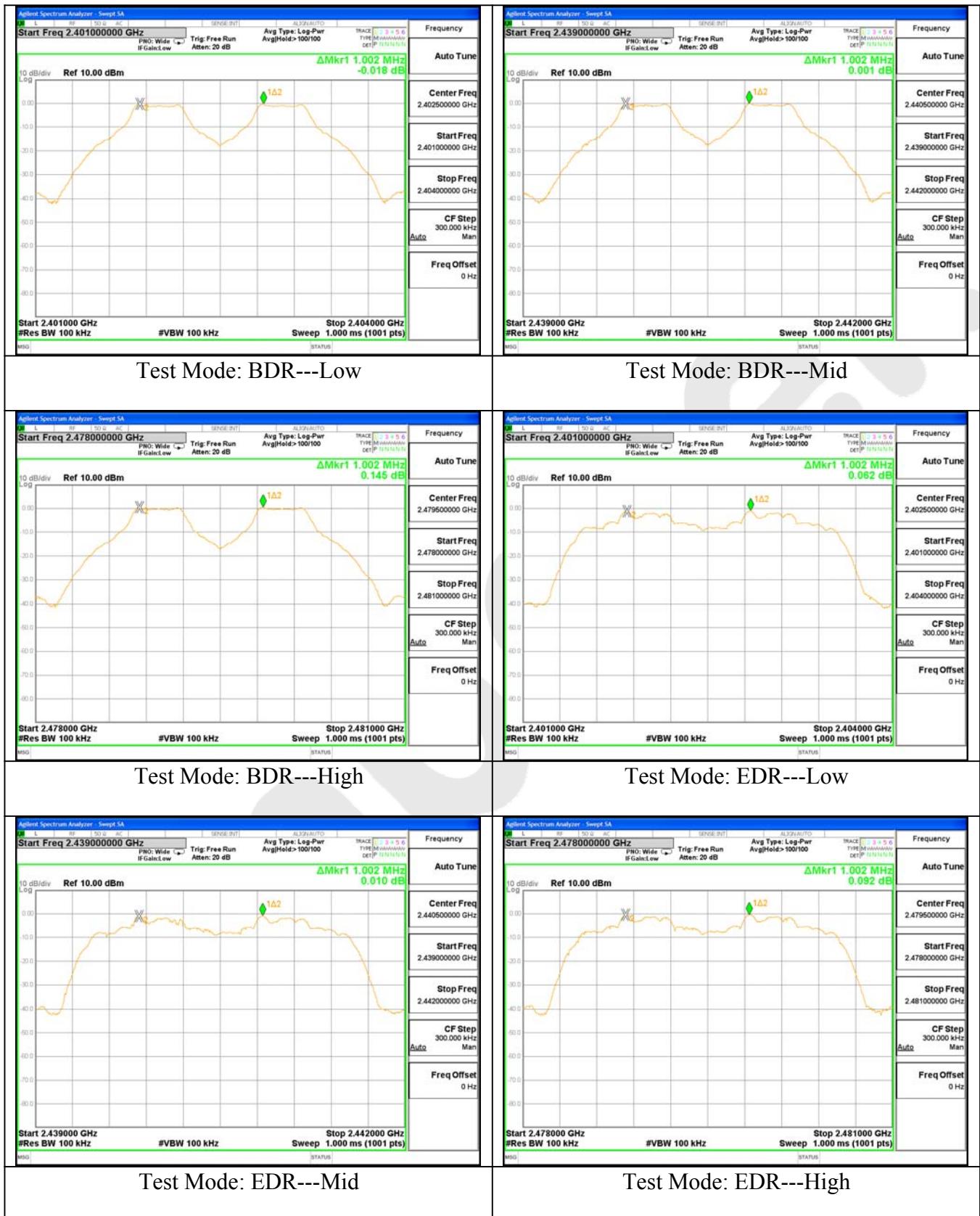
5.4 Test Results

| | | | |
|--------------|--------------------------|-------------|--------------------|
| Test Item | : Frequency Separation | Test Mode | : CH Low ~ CH High |
| Test Voltage | : DC 3.7V Battery inside | Temperature | : 24°C |
| Test Result | : PASS | Humidity | : 55%RH |

| Channel | Frequency (MHz) | Separation Read Value (kHz) | Limit (kHz) | Modulation Mode |
|---------|-----------------|-----------------------------|-------------|-----------------|
| Low | 2402 | 1002 | 926.9 | BDR |
| Mid | 2441 | 1002 | 928.5 | BDR |
| High | 2480 | 1002 | 930.0 | BDR |
| Low | 2402 | 1002 | 841.3 | EDR |
| Mid | 2441 | 1002 | 840.7 | EDR |
| High | 2480 | 1002 | 840.7 | EDR |

Remark:

1. The limit of mode (EDR) is 2/3 of 20dB BW;
2. The EDR was tested on ($\pi/4$ DQPSK, 8DPSK) modes, only the worst data of ($\pi/4$ DQPSK) is attached in the following pages.



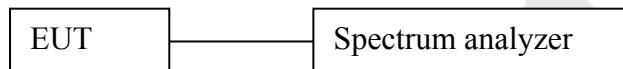
6. 20DB BANDWIDTH TEST

6.1 Measurement Procedure

Using the following spectrum analyzer settings:

1. Span= approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel.
2. Set the RBW = 30 kHz.
3. Set the VBW = 100 kHz.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

6.2 Test SET-UP



6.3 Test Equipment

Same as the equipment listed in 5.3.

6.4 Test Results

| | | | |
|--------------|--------------------------|-------------|--------------------|
| Test Item | : 20dB BW | Test Mode | : CH Low ~ CH High |
| Test Voltage | : DC 3.7V Battery inside | Temperature | : 24°C |
| Test Result | : PASS | Humidity | : 55%RH |

| Channel | Frequency (MHz) | 20dB Down BW(kHz) | Modulation Mode |
|---------|-----------------|-------------------|-----------------|
| Low | 2402 | 926.9 | BDR |
| Mid | 2441 | 928.5 | BDR |
| High | 2480 | 930.0 | BDR |
| Low | 2402 | 1262.0 | EDR |
| Mid | 2441 | 1261.0 | EDR |
| High | 2480 | 1261.0 | EDR |

Remark: The EDR was tested on ($\pi/4$ DQPSK, 8DPSK) modes, only the worst data of ($\pi/4$ DQPSK) is attached in the following pages.



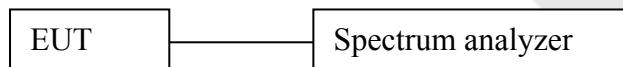
7. QUANTITY OF HOPPING CHANNEL TEST

7.1 Measurement Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer setting:

1. Span= the frequency band of operation
2. Set the RBW = 1 MHz.
3. Set the VBW = 1 MHz.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

7.2 Test SET-UP



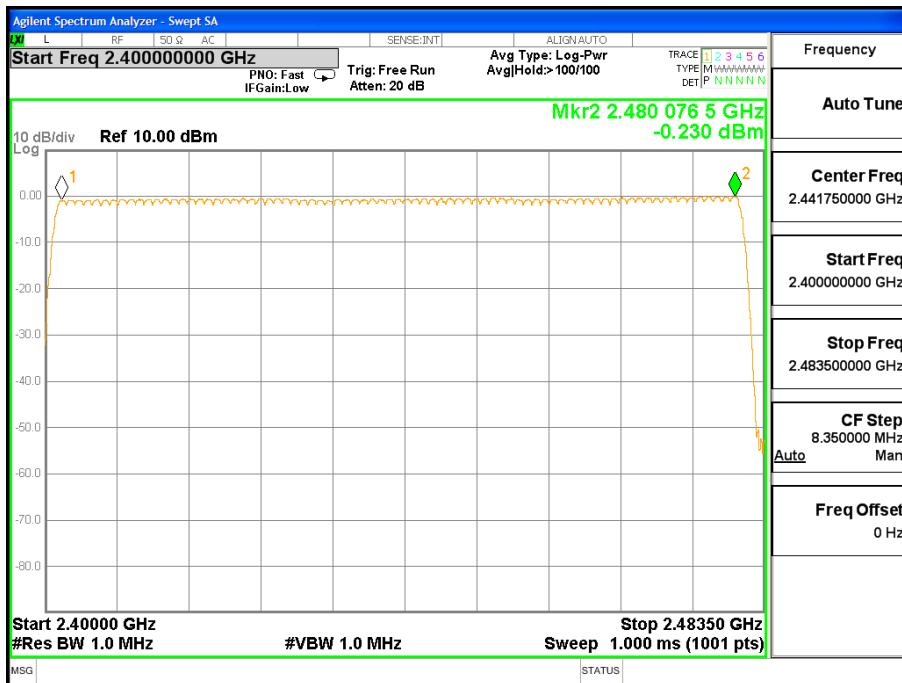
7.3 Test Equipment

Same as the equipment listed in 5.3.

7.4 Test Results

| | | | |
|--------------|-------------------------------|-------------|--------------------|
| Test Item | : Number of Hopping Frequency | Test Mode | : CH Low ~ CH High |
| Test Voltage | : DC 3.7V Battery inside | Temperature | : 24°C |
| Test Result | : PASS | Humidity | : 55%RH |

| Hopping Channel Frequency Range | Quantity of Hopping Channel | Quantity of Hopping Channel |
|---------------------------------|-----------------------------|-----------------------------|
| 2402-2480 | 79 | >15 |



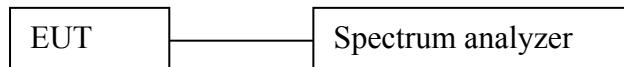
8. DWELL TIME TEST

8.1 Measurement Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span= zero span, centered on a hopping channel
2. Set the RBW = 1 MHz.
3. Set the VBW = 1 MHz.
4. Sweep time = as necessary to capture the entire dwell time per hopping channel.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

8.2 Test SET-UP



8.3 Test Equipment

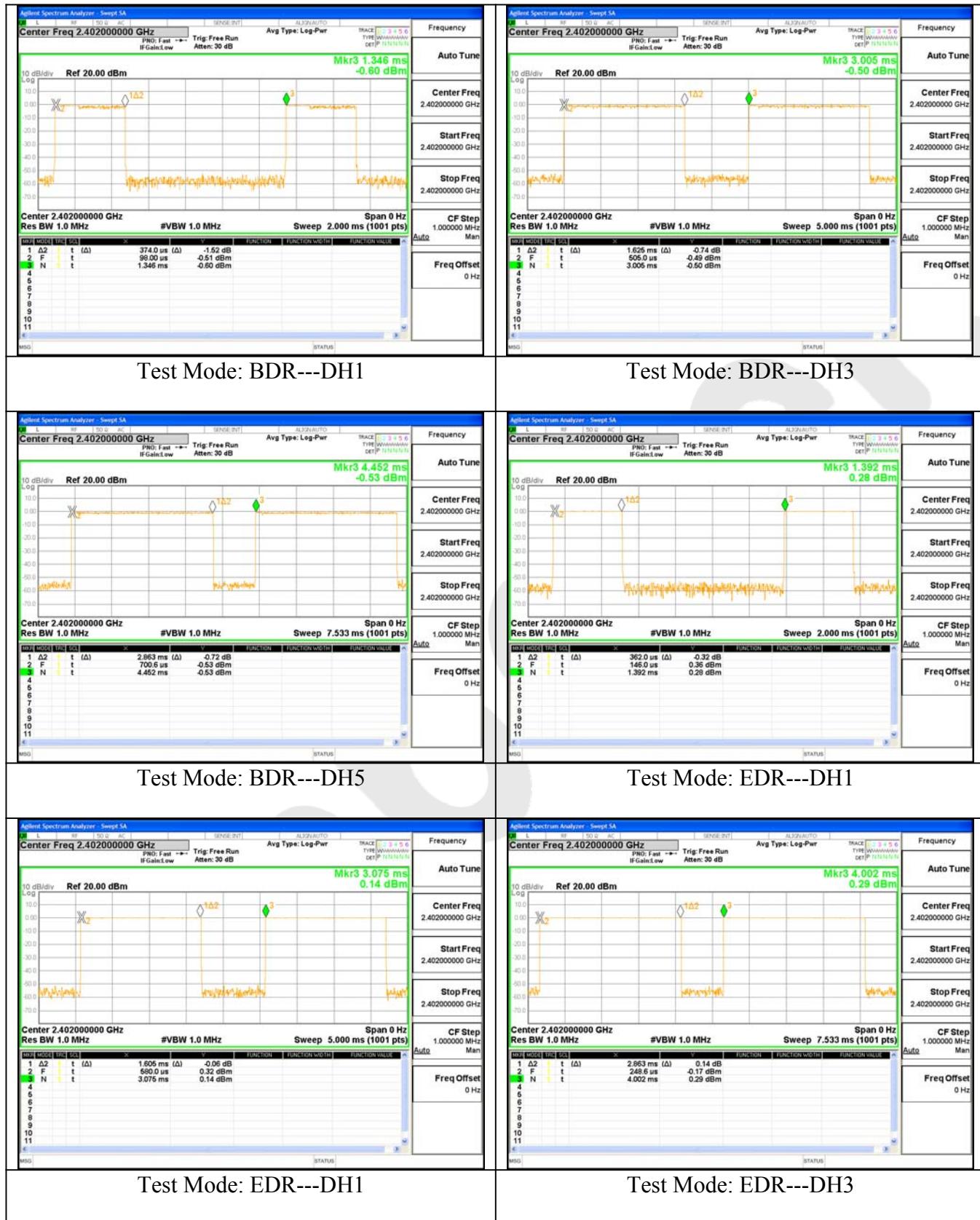
Same as the equipment listed in 5.3.

8.4 Test Results

| | | | | | |
|--------------|---|------------------------|-------------|---|------------------|
| Test Item | : | Time of Occupancy | Test Mode | : | CH Low ~ CH High |
| Test Voltage | : | DC 3.7V Battery inside | Temperature | : | 24°C |
| Test Result | : | PASS | Humidity | : | 55%RH |

| Package Type | Pulse width (ms) | Time slot length(ms) | Dwell time (ms) | Limit (s) | Modulation |
|--------------|------------------|-------------------------------------|-----------------|-----------|------------|
| DH1 | 0.374 | time slot length *1600/2 /79 * 31.6 | 119.68 | 0.4 | BDR |
| DH3 | 1.625 | time slot length *1600/4 /79 * 31.6 | 260.00 | 0.4 | BDR |
| DH5 | 2.863 | time slot length *1600/6 /79 * 31.6 | 305.39 | 0.4 | BDR |
| DH1 | 0.362 | time slot length *1600/2 /79 * 31.6 | 115.84 | 0.4 | EDR |
| DH3 | 1.605 | time slot length *1600/4 /79 * 31.6 | 256.80 | 0.4 | EDR |
| DH5 | 2.863 | time slot length *1600/6 /79 * 31.6 | 305.39 | 0.4 | EDR |

Remark: The EDR was tested on ($\pi/4$ DQPSK, 8DPSK) modes, only the worst data of ($\pi/4$ DQPSK) is attached in the following pages.



9. MAXIMUM PEAK OUTPUT POWER TEST

9.1 Measurement Procedure

- a. Check the calibration of the measuring instrument(SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. The center frequency of the spectrum analyzer is set to the fundamental frequency and using proper RBW and VBW setting.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

Using the following spectrum analyzer settings:

1. Span= approximately 5 times the 20dB bandwidth, centered on a hopping channel
2. Set the RBW = 3 MHz.
3. Set the VBW = 3 MHz.
4. Sweep time = auto couple.
5. Detector function = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.

9.2 Test SET-UP



9.3 Test Equipment

Same as the equipment listed in 5.3.

9.4 Test Results

Test Item : Max. peak output power Test Mode : CH Low ~ CH High
Test Voltage : DC 3.7V Battery inside Temperature : 24°C
Test Result : PASS Humidity : 55%RH

| Channel Frequency (MHz) | Peak Power output(mW) | Peak Power output(dBm) | Peak Power Limit(mW) | Results | Modulation |
|-------------------------|-----------------------|------------------------|----------------------|---------|------------|
| 2402 | 0.975 | -0.011 | 1000 | PASS | BDR |
| 2441 | 1.058 | 0.245 | 1000 | PASS | BDR |
| 2480 | 1.210 | 0.831 | 1000 | PASS | BDR |
| 2402 | 0.973 | -0.118 | 125 | PASS | EDR |
| 2441 | 1.049 | 0.209 | 125 | PASS | EDR |
| 2480 | 1.197 | 0.781 | 125 | PASS | EDR |

Remark: The EDR was tested on ($\pi/4$ DQPSK, 8DPSK) modes, only the worst data of ($\pi/4$ DQPSK) is attached in the following pages.



10. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

a) 10.1 Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Measurement Procedure

The EUT must have its hopping/Non-hopping function enabled. Using the following spectrum analyzer setting:

1. Set the RBW = 100KHz.
2. Set the VBW = 300KHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

b) 10.2 Test SET-UP



c) 10.3 Test Equipment

Same as the equipment listed in 5.3.

d) 10.4 Test Results

Pass.

Please refer the following data.

| | | | | | |
|--------------|---|---------------|-------------|---|------------------|
| Test Item | : | Band edge | Test Mode | : | CH Low ~ CH High |
| Test Voltage | : | AC 110V, 60Hz | Temperature | : | 24°C |
| Test Result | : | PASS | Humidity | : | 55%RH |

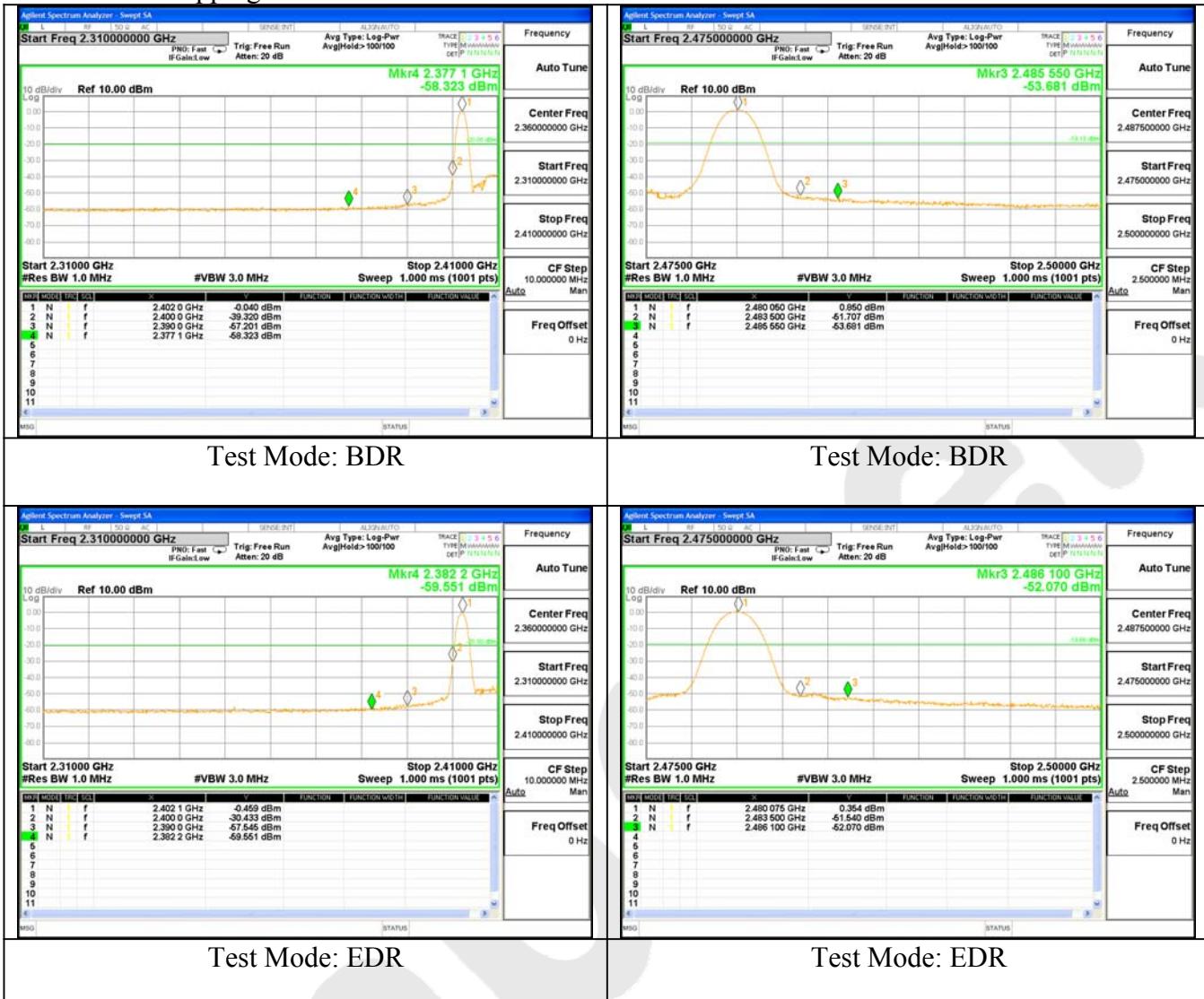
Remark: The EDR was tested on ($\pi/4$ DQPSK, 8DPSK) modes, only the worst data of ($\pi/4$ DQPSK) is attached in the following pages.

1. Conducted Emission Method

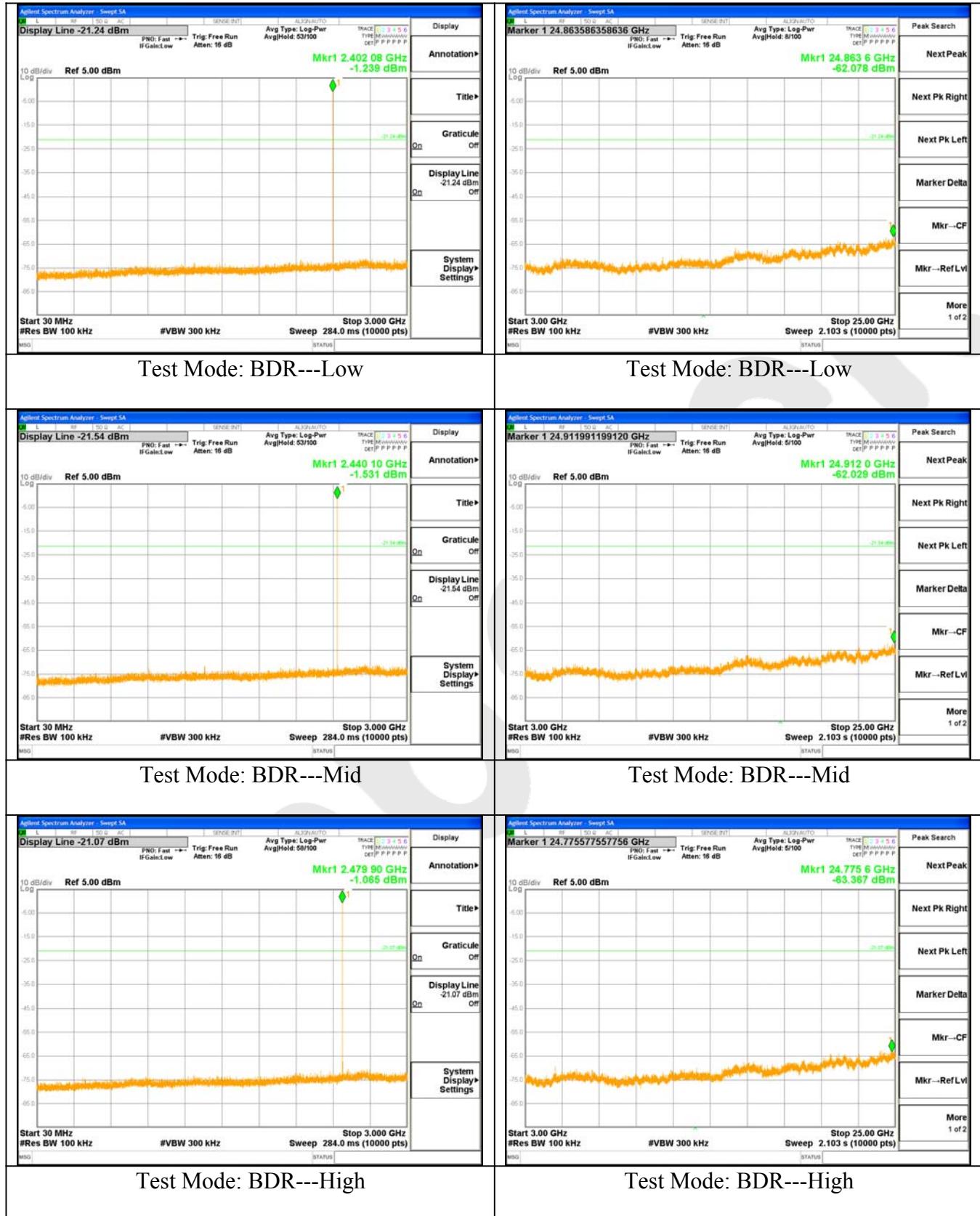
1.1 For Hopping Mode:

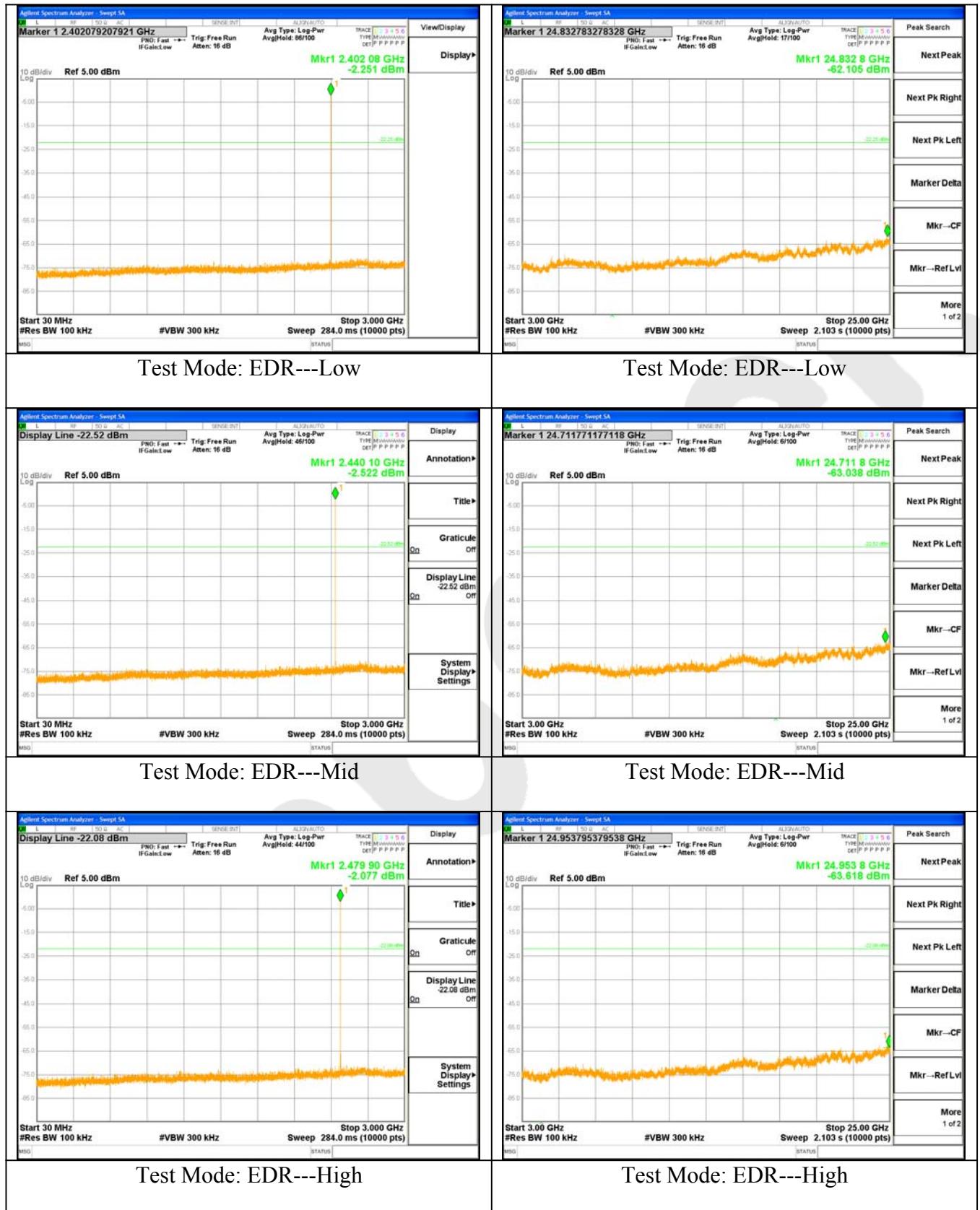


1.2 For Non-Hopping Mode:



1.3 Conducted Emission Method





11. ANTENNA APPLICATION

11.1 Antenna requirement

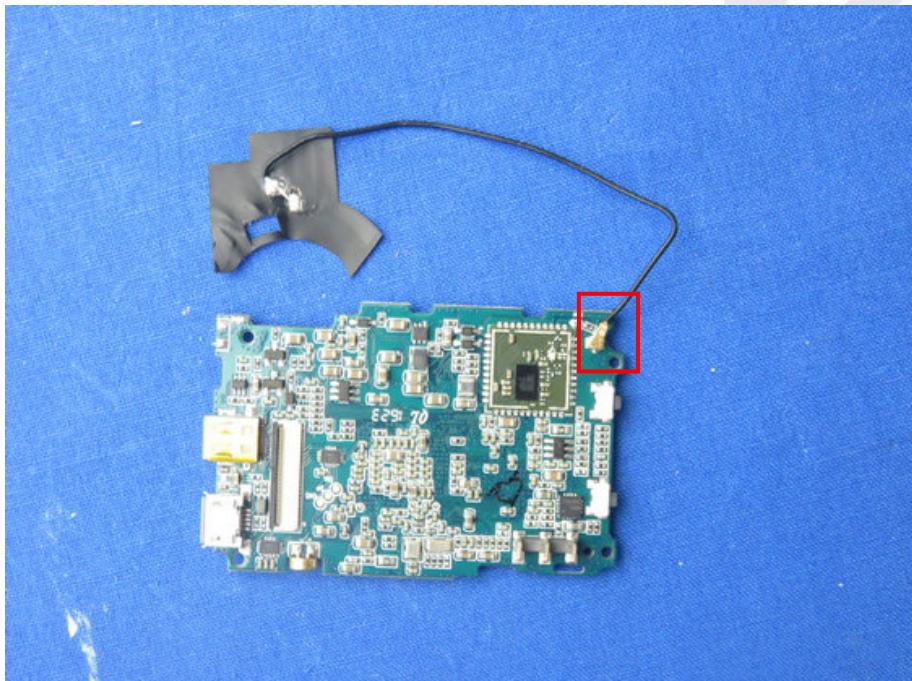
The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247.

FCC part 15C section 15.247 requirements:

Systems operating in the 2402-2480MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

11.2 Result

The EUT's antenna used a external antenna, The antenna's gain is -3dBi and meets the requirement.

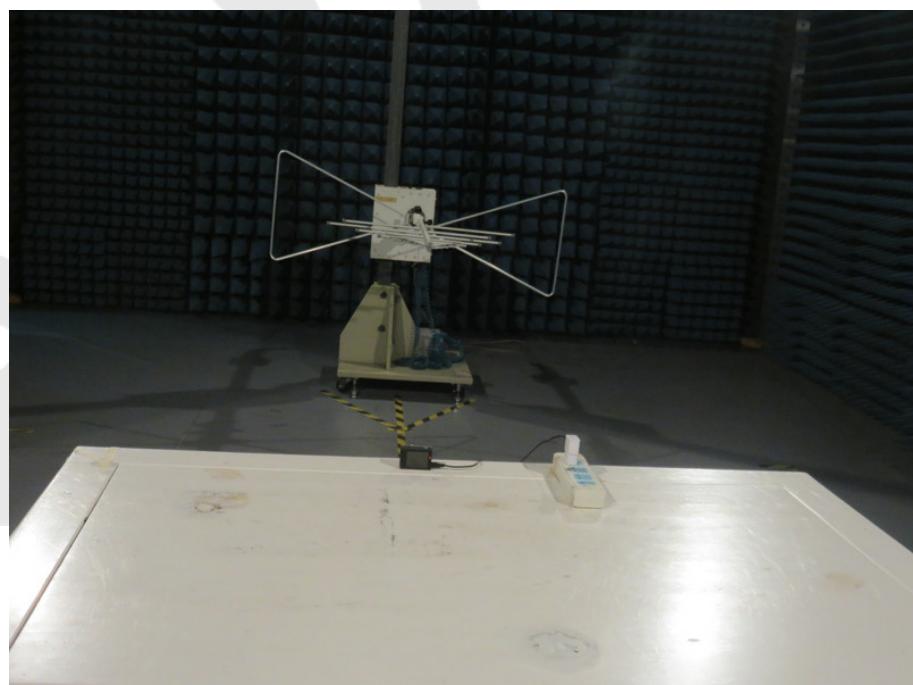


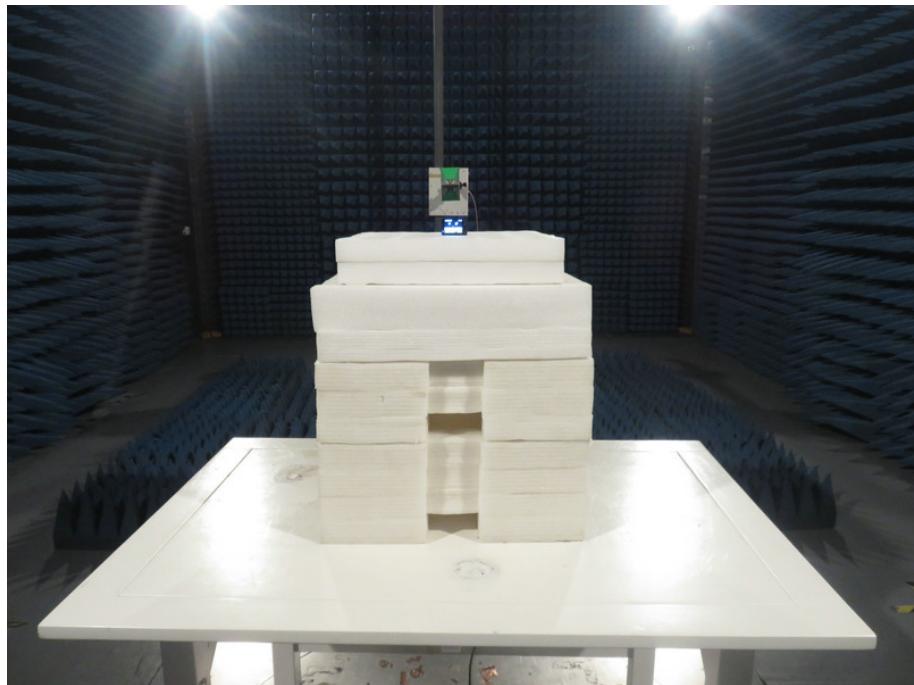
12. PHOTOGRAPH

12.1 Photo of Power Line Conducted Emission Measurement



12.2 Photo of Radiation Emission Test





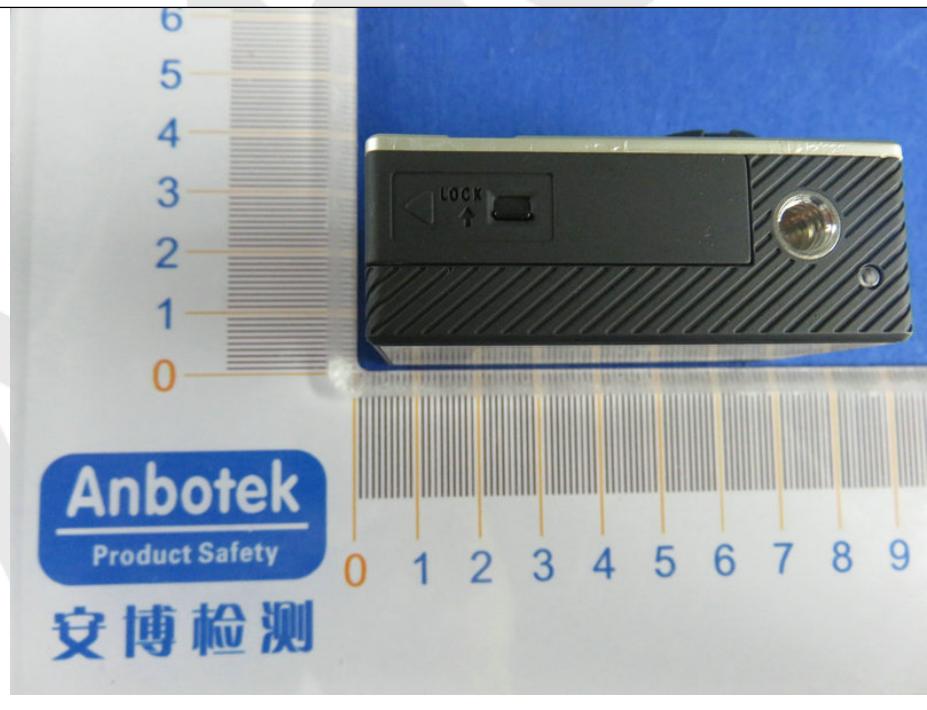
Anbotek

APPENDIX I (EXTERNAL PHOTOS)

1. Figure
The EUT-Top View

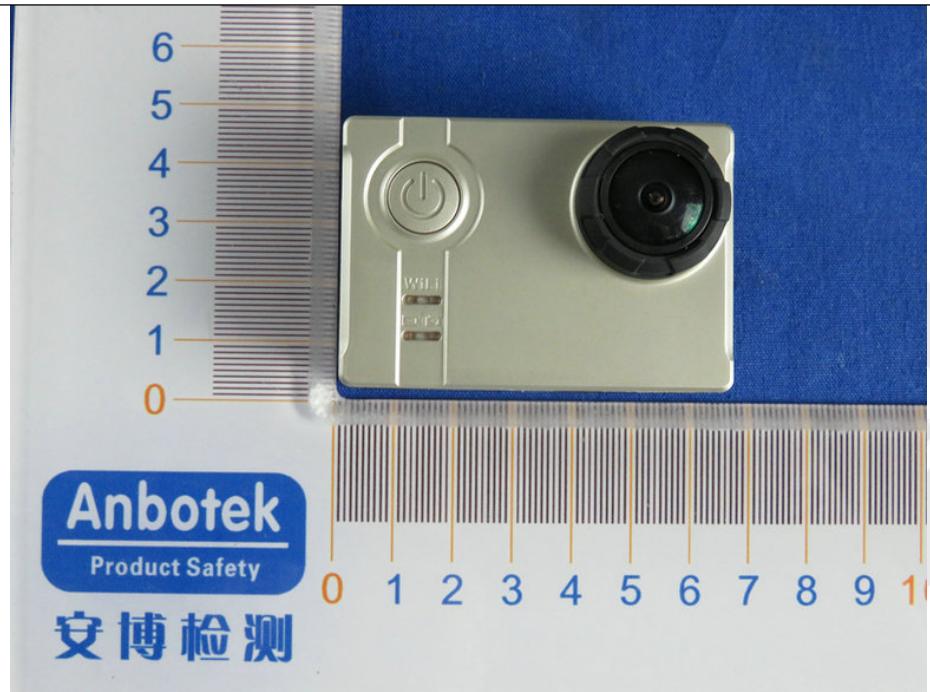


2. Figure
The EUT-Bottom View



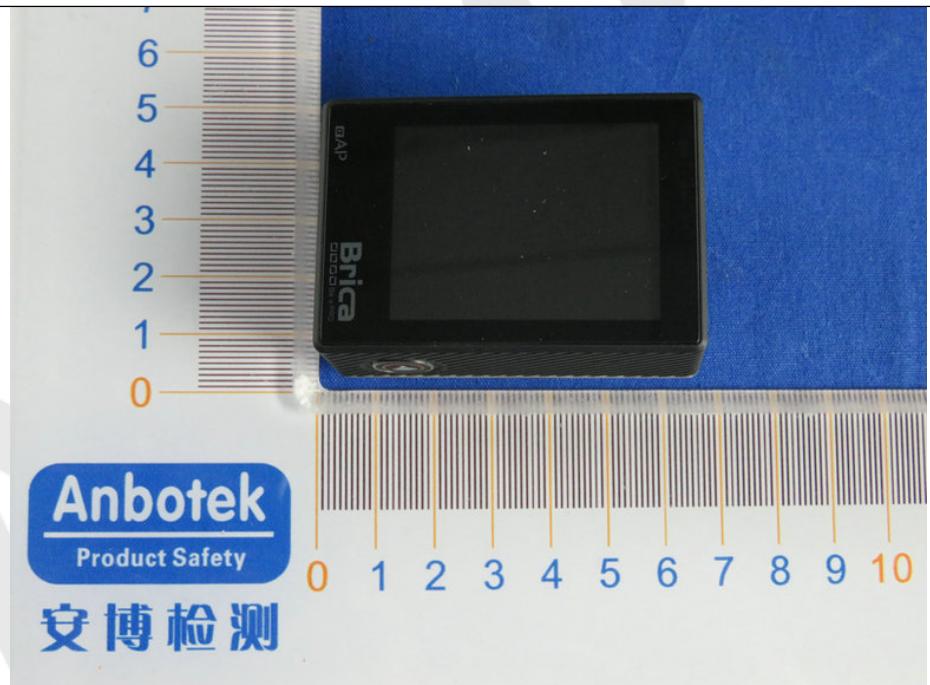
3. Figure

The EUT-Front View



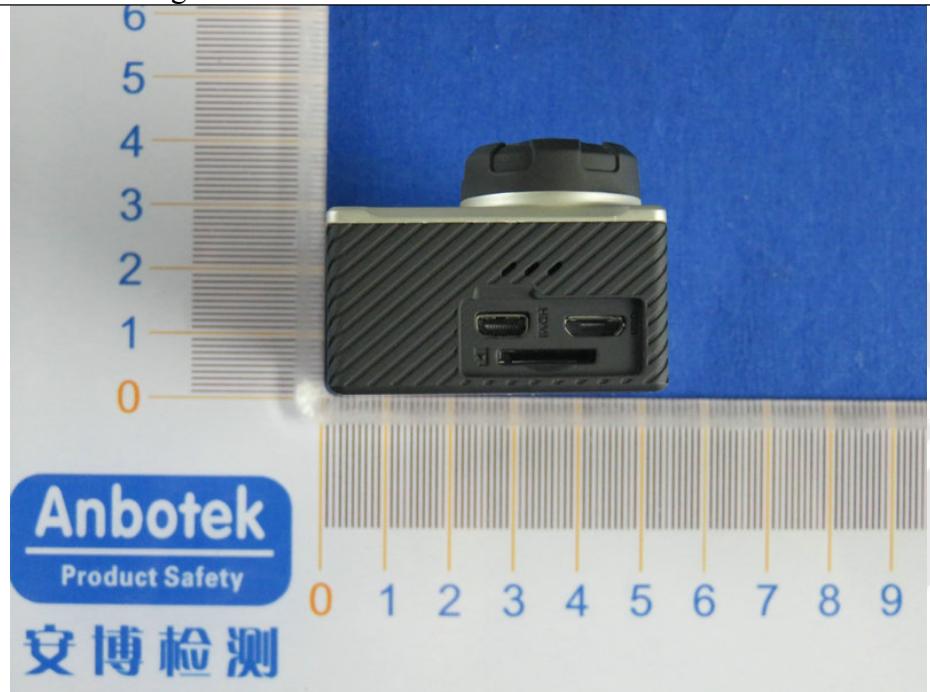
4. Figure

The EUT-Back View



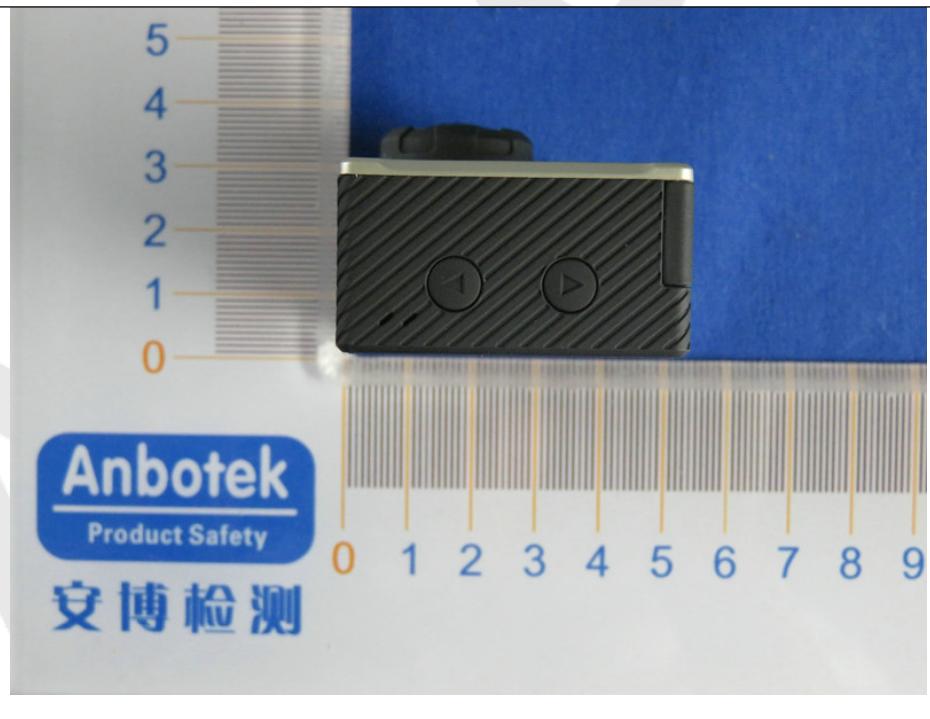
5. Figure

The EUT-Right View



6. Figure

The EUT-Left View



APPENDIX II (INTERNAL PHOTOS)

1. Figure

The EUT-Inside View



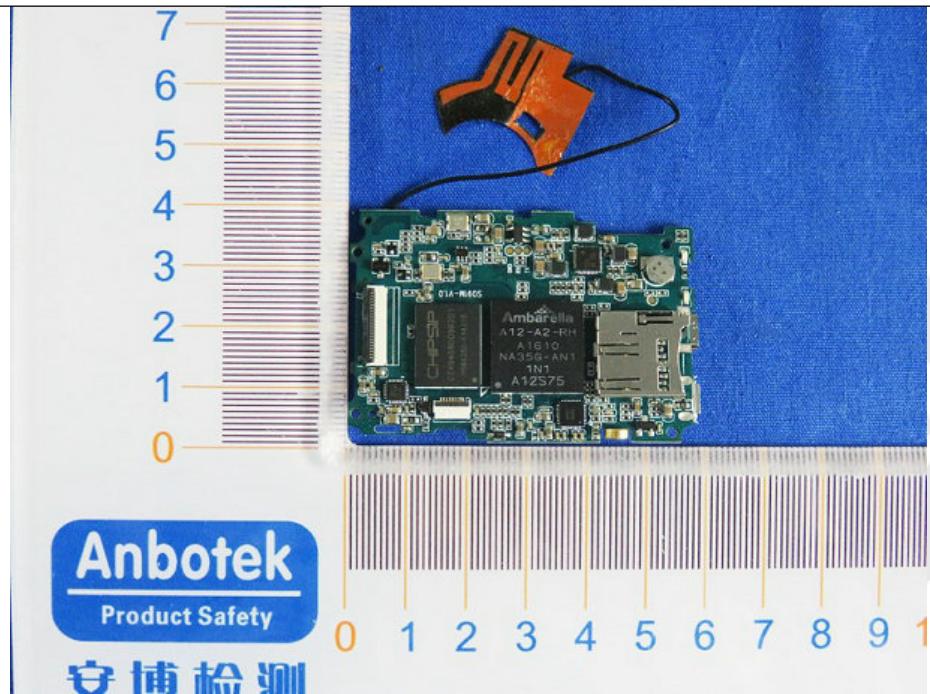
2. Figure

The EUT-Inside View



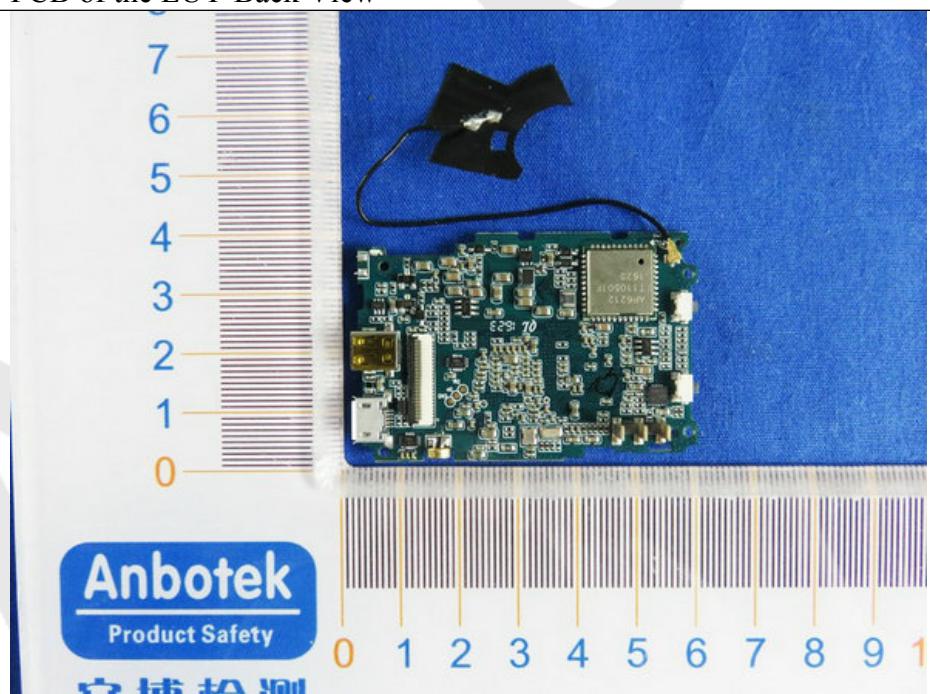
3. Figure

PCB of the EUT-Front View

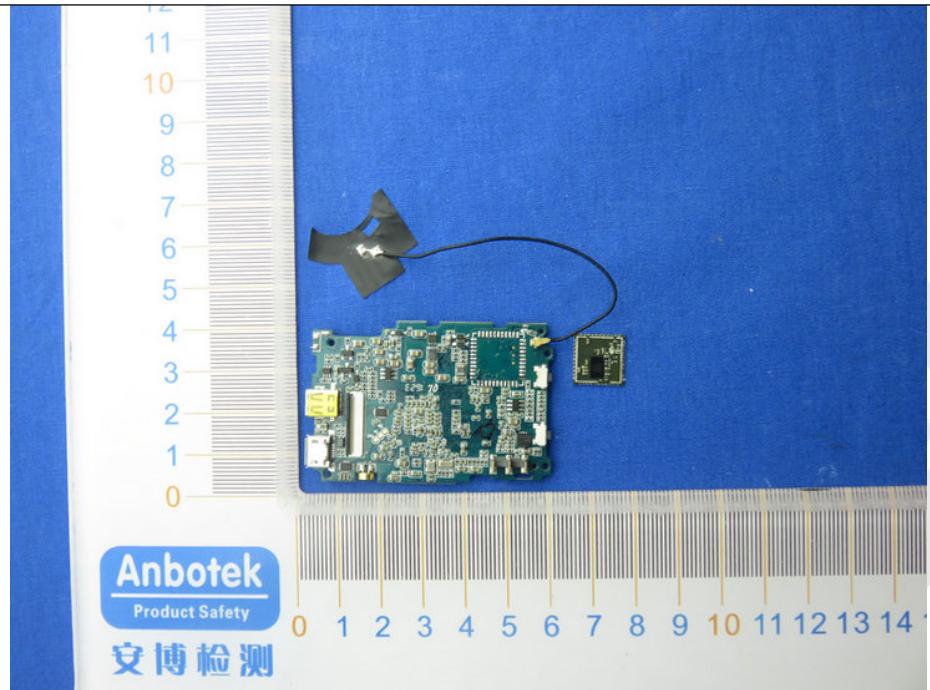


4. Figure

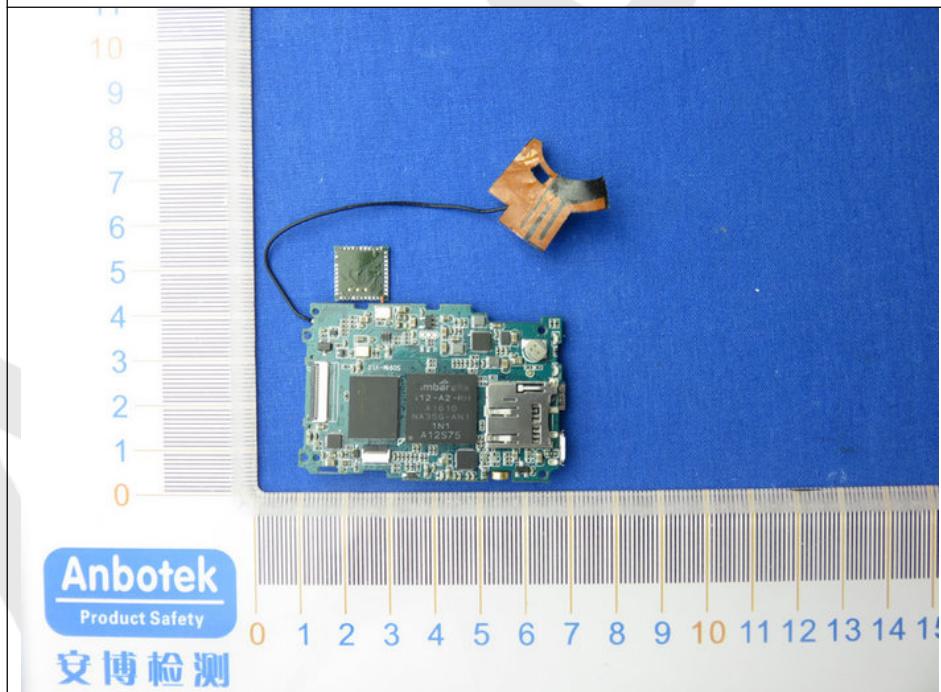
PCB of the EUT-Back View



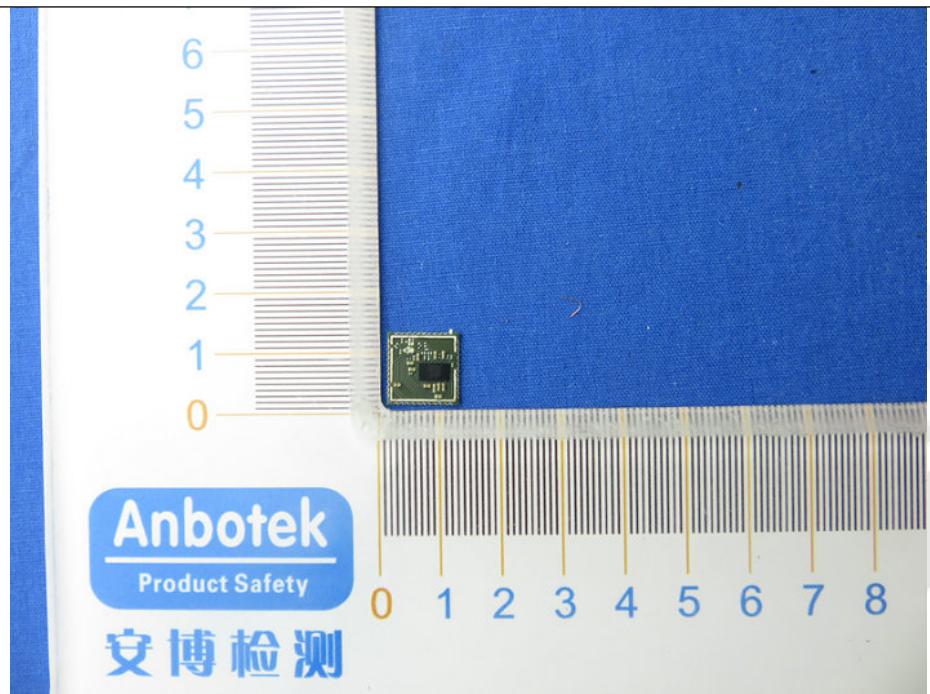
5. Figure
PCB of the EUT-Front View



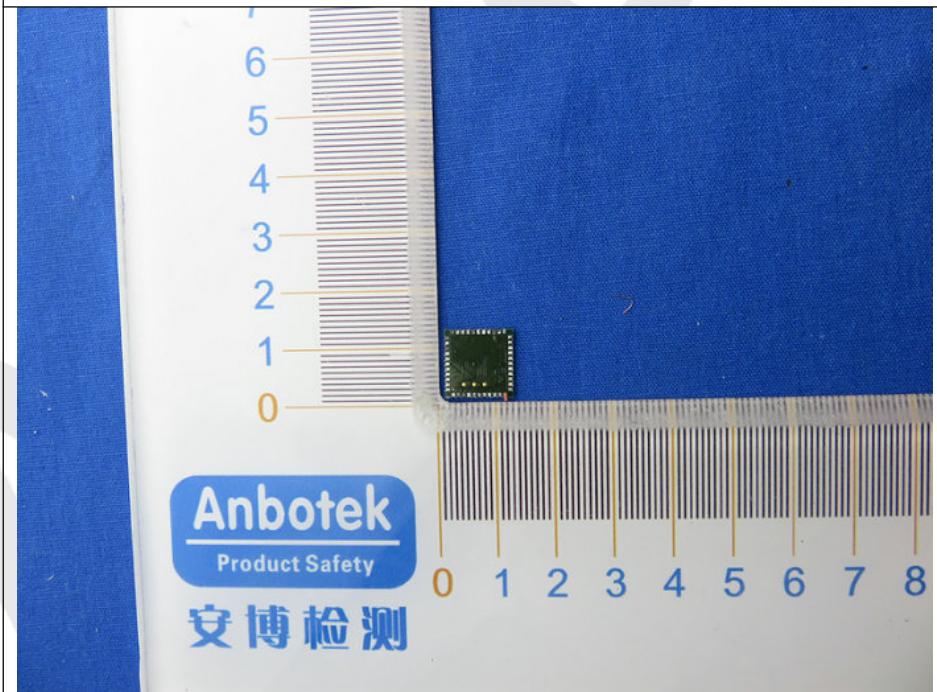
6. Figure
PCB of the EUT-Back View



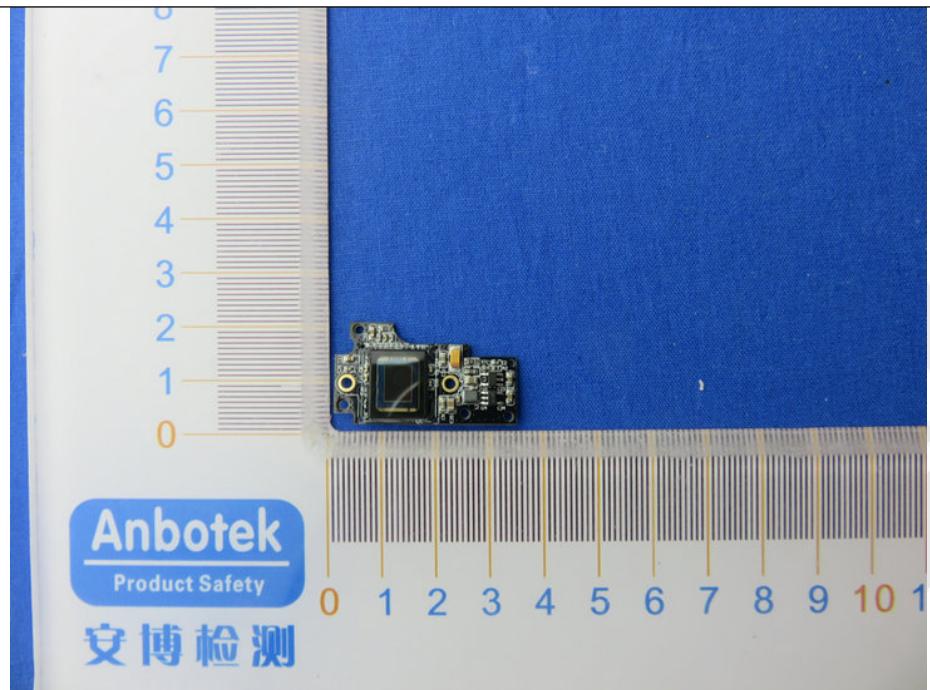
7. Figure
PCB of the EUT-Front View



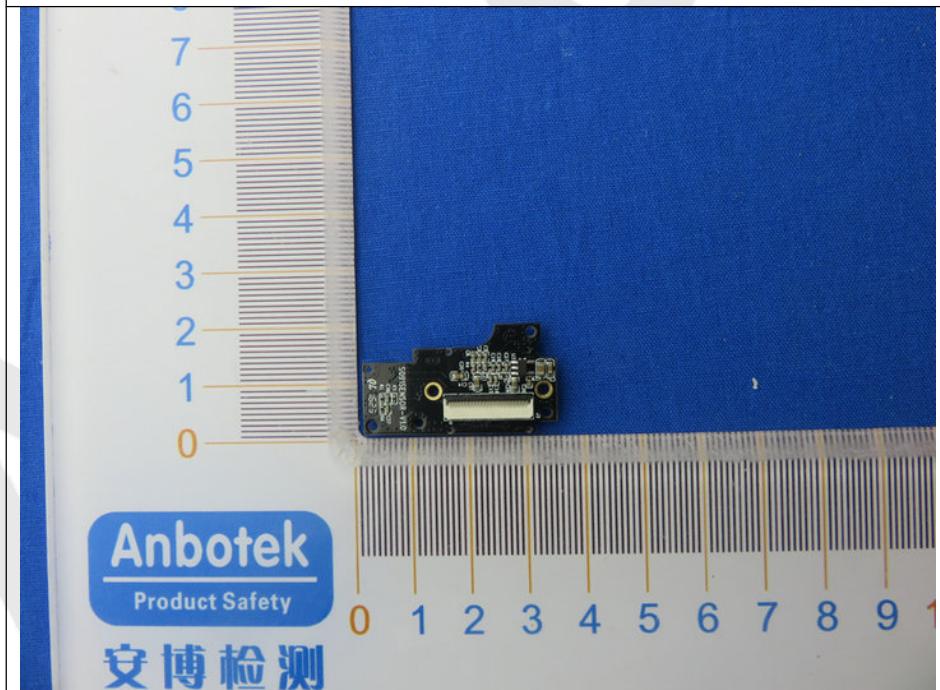
8. Figure
PCB of the EUT-Back View



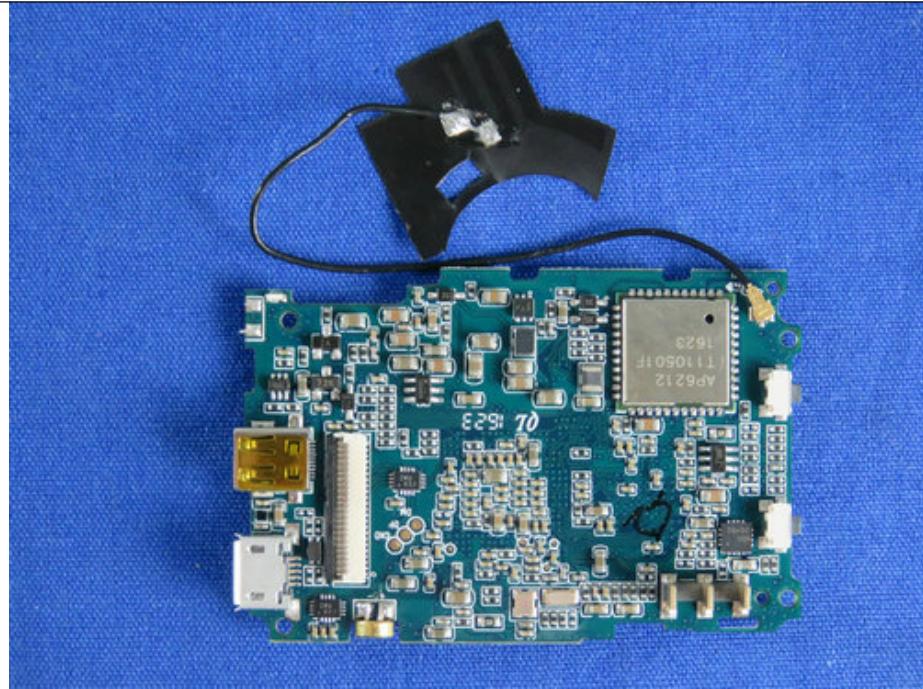
9. Figure
PCB of the EUT-Front View



10. Figure
PCB of the EUT-Back View



11. Figure
PCB of the EUT-Front View



12. Figure
PCB of the EUT-Back View

