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## FCC TEST REPORT

Report No: STS1601055F01

Issued for

BorqsBeiJing Ltd.

Tower A, Building B23, Universal Business Park, No. 10  
Jiuxianqiao Road, Chaoyang District Beijing, 100015 China

|                |                       |
|----------------|-----------------------|
| Product Name:  | Dock                  |
| Brand Name:    | VIZIO                 |
| Model No.:     | XD6M                  |
| Series Model:  | N/A                   |
| FCC ID:        | 2ABDK-XD6M            |
| Test Standard: | FCC Part 15 Subpart C |

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### TEST RESULT CERTIFICATION

**Applicant's name :** BorqsBeiJing Ltd  
**Address :** Tower A, Building B23, Universal Business Park, No. 10 Jiuxianqiao Road, Chaoyang District Beijing, 100015 China  
**Manufacture's Name :** BorqsBeiJing Ltd  
**Address :** Tower A, Building B23, Universal Business Park, No. 10 Jiuxianqiao Road, Chaoyang District Beijing, 100015 China


#### Product description

**Product name :** Dock  
**Brand name :** VIZIO  
**Model and/or type reference :** XD6M  
**Standards :** FCC Part 15 Subpart C  
**Test Procedure :** ANSI C63.10-2013

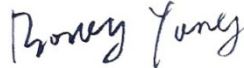
This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test :**  
**Date of performance of tests :** 10 Jan 2016 ~19 Jan 2016  
**Date of Issue :** 20 Jan 2016  
**Test Result :** **Pass**

**Testing Engineer :**   
\_\_\_\_\_  
(Tony Liu)

**Technical Manager :**   
\_\_\_\_\_  
(Vita Li)

**Authorized Signatory :**   
\_\_\_\_\_  
(Bovey Yang)





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**Revision History**

| Rev. | Issue Date   | Report NO.    | Effect Page | Contents      |
|------|--------------|---------------|-------------|---------------|
| 00   | 20Jan . 2016 | STS1601055F01 | ALL         | Initial Issue |
|      |              |               |             |               |



## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 , Subpart C |                                      |          |        |
|------------------------|--------------------------------------|----------|--------|
| Standard Section       | Test Item                            | Judgment | Remark |
| 15.207                 | Conducted Emission                   | PASS     |        |
| 15.209 (a)             | Radiated emission, Spurious Emission | PASS     |        |
| 2.1049                 | 20 dB Bandwidth                      | PASS     |        |

### 1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.  
 Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,  
 Fuyong Street, Bao'an District, Shenzhen, Guangdong, China  
 CNAS Registration No.: L7649;  
 FCC Registration No.: 842334; IC Registration No.: 12108A-1

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$  , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$  , providing a level of confidence of approximately **95 %**.

| No. | Item                                       | Uncertainty         |
|-----|--|---------------------|
| 1   | Conducted Emission (9KHz-150KHz)           | $\pm 2.88$ dB       |
| 2   | Conducted Emission (150KHz-30MHz)          | $\pm 2.67$ dB       |
| 3   | All emissions,radiated(<1G) 30MHz-200MHz   | $\pm 2.83$ dB       |
| 4   | All emissions,radiated(<1G) 200MHz-1000MHz | $\pm 2.94$ dB       |
| 5   | Temperature                                | $\pm 0.5^{\circ}$ C |
| 6   | Humidity                                   | $\pm 2\%$           |



## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

|                            |   |
|----------------------------|---|
| Equipment                  | Dock  |
| Trade Name                 | VIZIO   |
| Model Name                 | XD6M  |
| Series Model               | N/A   |
| Model Difference           | N/A   |
| Channel List               | Please refer to the Note 2.                             |
| Equipemnt Category         | Non-ISM frequency                                       |
| Operating frequency        | 135KHz  |
| Modulation Type            | ASK   |
| Adapter                    | Input: AC100-240V, 450mA,50/60Hz<br>output: DC5V,2000mA |
| Hardware version number    | --  |
| Software versioning number | --  |
| Connecting I/O Port(s)     | Please refer to the User's Manual                       |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.

| Channel List |                 |         |                 |         |                 |
|--------------|-----------------|---------|-----------------|---------|-----------------|
| Channel      | Frequency (KHz) | Channel | Frequency (KHz) | Channel | Frequency (KHz) |
| 00           | 135             |         |                 |         |                 |

3. Table for Filed Antenna

| Ant | Brand | Model Name | Antenna Type | Connector | NOTE    |
|-----|-------|------------|--------------|-----------|---------|
| 1   | VIZIO | XD6M       | Coil         | NA        | Antenna |

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.



## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

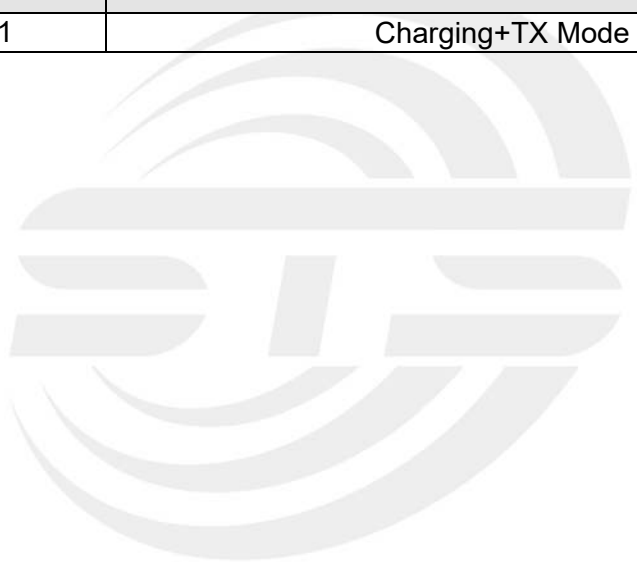
| Pretest Mode | Description      |
|--------------|------------------|
| Mode 1       | Charging+TX Mode |

| For Conducted Emission |                  |
|------------------------|------------------|
| Final Test Mode        | Description      |
| Mode 1                 | Charging+TX Mode |

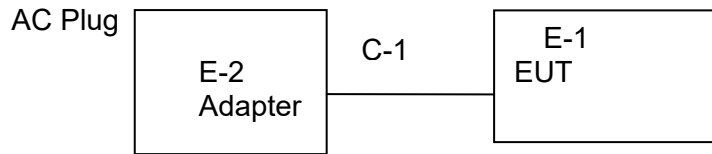
| For Radiated Emission |                  |
|-----------------------|------------------|
| Final Test Mode       | Description      |
| Mode 1                | Charging+TX Mode |



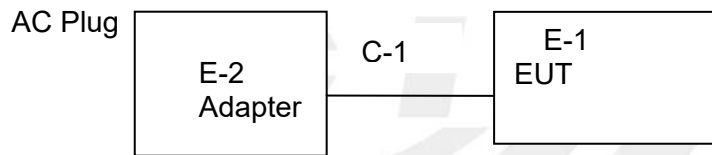
### 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

#### Conducted Emission Test



#### Radiated Emission Test







## 2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Serial No. | Note |
|------|-----------|-----------|----------------|------------|------|
| E-1  | Dock      | VIZIO     | XD6M           | N/A        | EUT  |
| E-2  | Adapter   | N/A       | ASUC41a-050120 | N/A        | EUT  |
|      |           |           |                |            |      |
|      |           |           |                |            |      |

| Item | Shielded Type | Cable type | Ferrite Core | Length | Note |
|------|---------------|------------|--------------|--------|------|
| C-1  | unshielded    | USB        | NO           | 102cm  | N/A  |
|      |               |            |              |        |      |
|      |               |            |              |        |      |
|      |               |            |              |        |      |
|      |               |            |              |        |      |

Note:

- (1) FCC DOC approved.



## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

## Radiation Test equipment

| Kind of Equipment   | Manufacturer | Type No.   | Serial No.    | Last calibration | Calibrated until |
|---------------------|--------------|------------|---------------|------------------|------------------|
| Spectrum Analyzer   | Agilent      | E4407B     | MY50140340    | 2015.10.25       | 2016.10.24       |
| Test Receiver       | R&S          | ESCI       | 101427        | 2015.10.25       | 2016.10.24       |
| Bilog Antenna       | TESEQ        | CBL6111D   | 34678         | 2015.11.25       | 2016.11.24       |
| 50Ω Coaxial Switch  | Anritsu      | MP59B      | 6200264416    | 2015.06.06       | 2016.06.05       |
| PreAmplifier        | Agilent      | 8449B      | 60538         | 2015.10.25       | 2016.10.24       |
| Loop Antenna        | ARA          | PLA-1030/B | 1029          | 2015.06.08       | 2016.06.07       |
| USB RF power sensor | DARE         | RPR3006W   | 15100041SNO03 | 2015.10.25       | 2016.10.24       |

## Conduction Test equipment

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|-------------------|--------------|----------|------------|------------------|------------------|
| EMI Test Receiver | R&S          | ESPI     | 102086     | 2015.11.20       | 2016.11.19       |
| LISN              | R&S          | ENV216   | 101242     | 2015.10.25       | 2016.10.24       |
| LISN              | EMCO         | 3810/2NM | 000-23625  | 2015.10.25       | 2016.10.24       |

### 3. CONDUCTED EMISSION TEST RESULT (SECTION 15.207)

#### 3.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 15.207 limit in the table below has to be followed.

| FREQUENCY (MHz) | Class B (dBuV) |           |
|-----------------|----------------|-----------|
|                 | Quasi-peak     | Average   |
| 0.15 -0.5       | 66 - 56 *      | 56 - 46 * |
| 0.50 -5.0       | 56.00          | 46.00     |
| 5.0 -30.0       | 60.00          | 50.00     |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

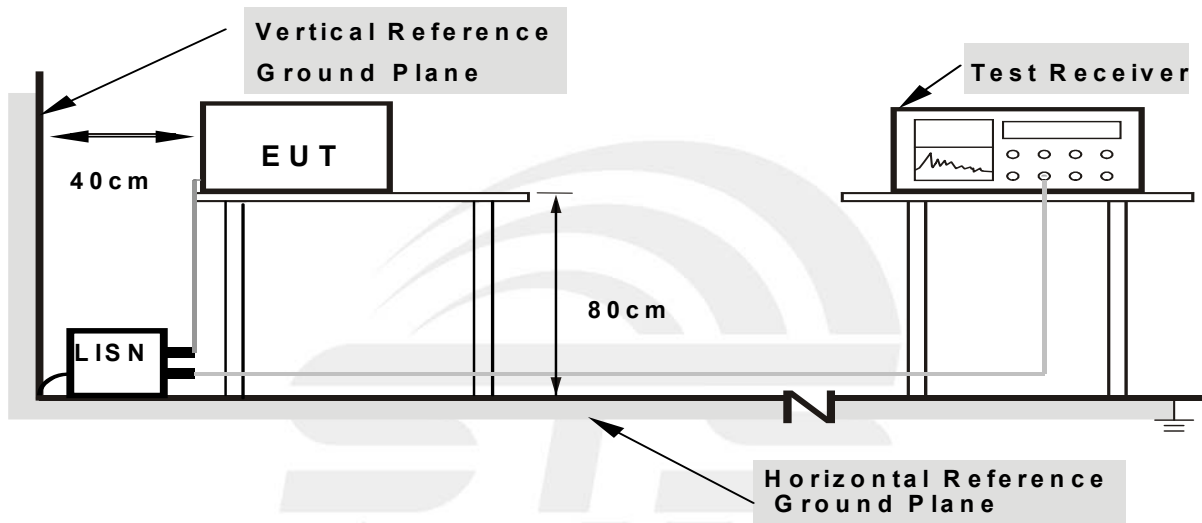
The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.3 TEST SETUP



- Note: 1. Support units were connected to second LISN.**  
**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes**

### 3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



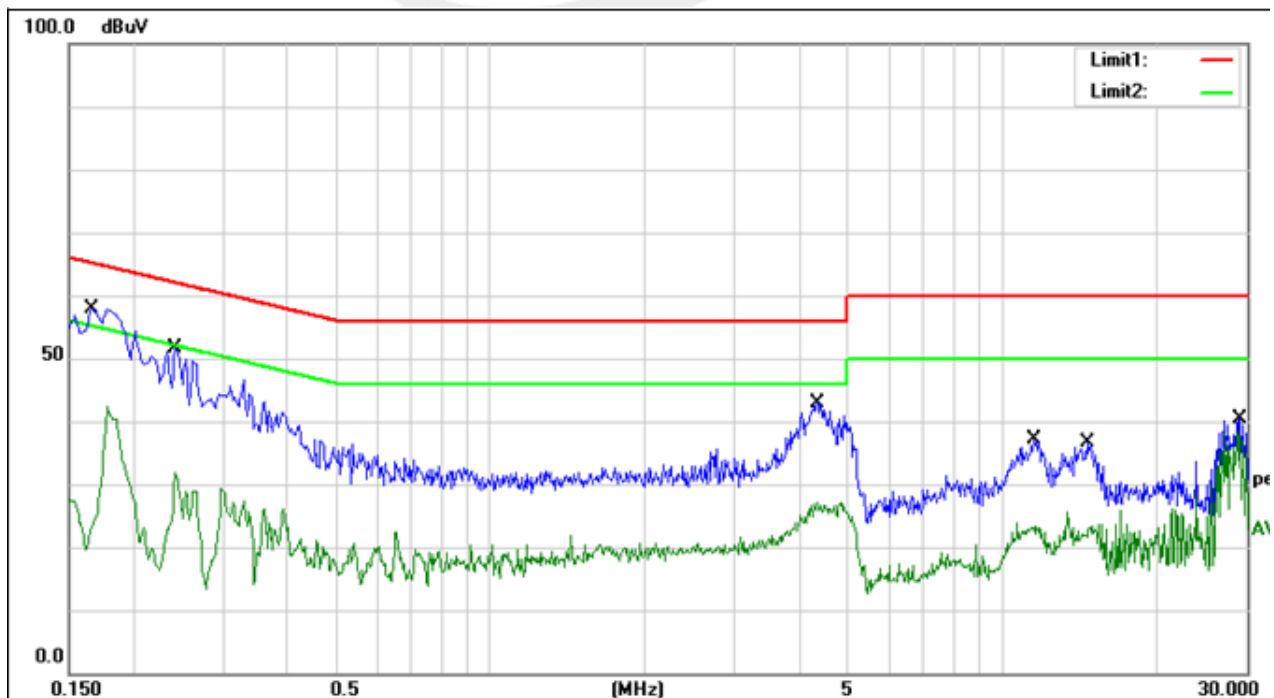
3.5 TEST RESULTS

|               |                              |                    |        |
|---------------|------------------------------|--------------------|--------|
| Temperature:  | 26 °C                        | Relative Humidity: | 54%    |
| Pressure:     | 1010hPa                      | Phase:             | L      |
| Test Voltage: | DC 5V from adapter 120V/60Hz | Test Mode:         | Mode 1 |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|---------------|----------------|-------------|----------|
| 1   | 0.1660          | 38.01          | 10.00       | 48.01         | 65.16          | -17.15      | QP       |
| 2   | 0.1660          | 11.92          | 10.00       | 21.92         | 55.16          | -33.24      | AVG      |
| 3   | 0.2420          | 38.23          | 9.96        | 48.19         | 62.03          | -13.84      | QP       |
| 4   | 0.2420          | 19.56          | 9.96        | 29.52         | 52.03          | -22.51      | AVG      |
| 5   | 4.3580          | 26.54          | 10.20       | 36.74         | 56.00          | -19.26      | QP       |
| 6   | 4.3580          | 14.29          | 10.20       | 24.49         | 46.00          | -21.51      | AVG      |
| 7   | 11.5260         | 19.72          | 10.37       | 30.09         | 60.00          | -29.91      | QP       |
| 8   | 11.5260         | 11.46          | 10.37       | 21.83         | 50.00          | -28.17      | AVG      |
| 9   | 14.6420         | 19.02          | 10.31       | 29.33         | 60.00          | -30.67      | QP       |
| 10  | 14.6420         | 12.09          | 10.31       | 22.40         | 50.00          | -27.60      | AVG      |
| 11  | 29.1580         | 27.49          | 10.62       | 38.11         | 60.00          | -21.89      | QP       |
| 12  | 29.1580         | 24.60          | 10.62       | 35.22         | 50.00          | -14.78      | AVG      |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. N/A means All Data have pass Limit



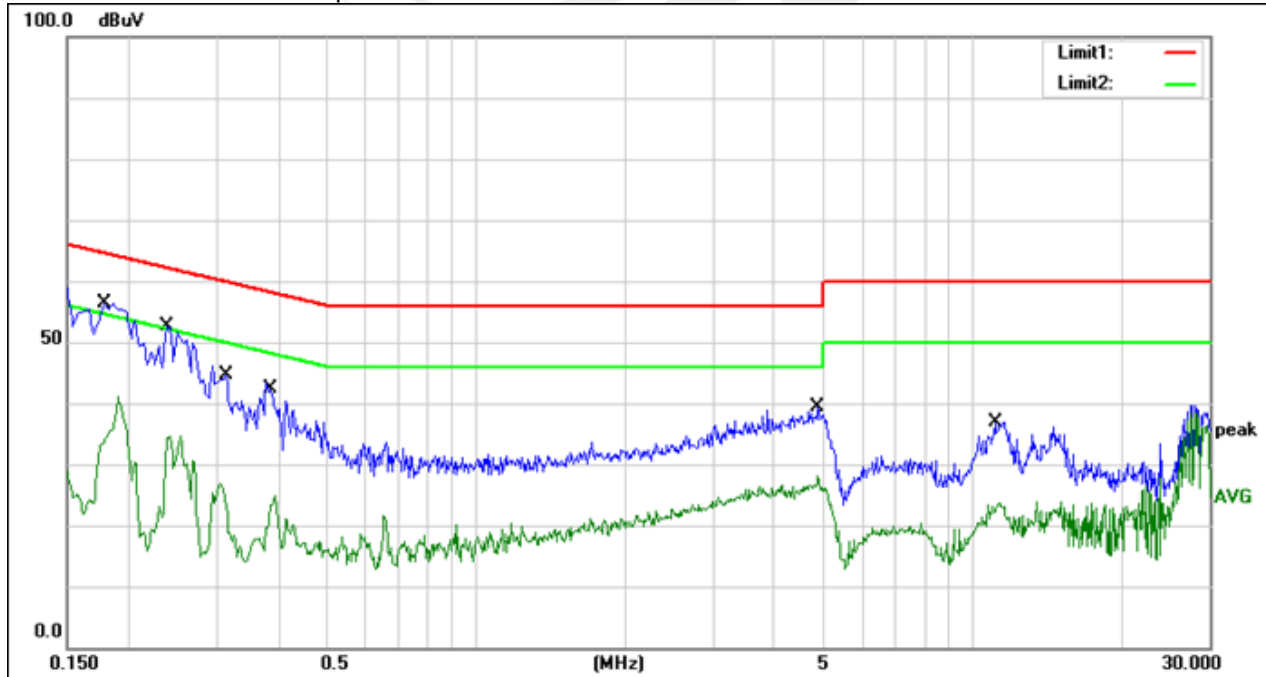


|               |                              |                    |        |
|---------------|------------------------------|--------------------|--------|
| Temperature:  | 26 °C                        | Relative Humidity: | 54%    |
| Pressure:     | 1010hPa                      | Phase:             | N      |
| Test Voltage: | DC 5V from adapter 120V/60Hz | Test Mode:         | Mode 1 |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|---------------|----------------|-------------|----------|
| 1   | 0.1781          | 44.51          | 10.00       | 54.51         | 64.57          | -10.06      | QP       |
| 2   | 0.1781          | 25.21          | 10.00       | 35.21         | 54.57          | -19.36      | AVG      |
| 3   | 0.2368          | 37.43          | 9.96        | 47.39         | 62.21          | -14.82      | QP       |
| 4   | 0.2368          | 17.48          | 9.96        | 27.44         | 52.21          | -24.77      | AVG      |
| 5   | 0.3150          | 29.98          | 9.92        | 39.90         | 59.84          | -19.94      | QP       |
| 6   | 0.3150          | 12.25          | 9.92        | 22.17         | 49.84          | -27.67      | AVG      |
| 7   | 0.3845          | 27.65          | 9.98        | 37.63         | 58.18          | -20.55      | QP       |
| 8   | 0.3845          | 8.32           | 9.98        | 18.30         | 48.18          | -29.88      | AVG      |
| 9   | 4.8443          | 20.91          | 10.20       | 31.11         | 56.00          | -24.89      | QP       |
| 10  | 4.8443          | 13.21          | 10.20       | 23.41         | 46.00          | -22.59      | AVG      |
| 11  | 11.0725         | 19.98          | 10.30       | 30.28         | 60.00          | -29.72      | QP       |
| 12  | 11.0725         | 11.88          | 10.30       | 22.18         | 50.00          | -27.82      | AVG      |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. N/A means All Data have pass Limit



#### 4. RADIATED & FIELD EMISSION TEST RESULT (SECTION 15.209)

##### 4.1 Limit

| Frequency [MHz] | Field Strength [uV/m] | Measurement Distance [Meters] |
|-----------------|-----------------------|-------------------------------|
| 0.009 ~ 0.490   | 2400/F (kHz)          | 300                           |
| 0.490 ~ 1.705   | 24000/F (kHz)         | 30                            |
| 1.705 ~ 30      | 30                    | 30                            |
| 30 ~ 88         | 100                   | 3                             |
| 88 ~ 216        | 150                   | 3                             |
| 216 ~ 960       | 200                   | 3                             |
| Above 960       | 500                   | 3                             |

Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54 - 72 MHz, 76 - 88 MHz, 174 - 216 MHz or 470 - 806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~90kHz / RB 200Hz for AV     |
| Start ~ Stop Frequency | 90kHz~110kHz / RB 200Hz for QP   |
| Start ~ Stop Frequency | 110kHz~490kHz / RB 200Hz for AV  |
| Start ~ Stop Frequency | 490kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

##### 4.2 TEST PROCEDURE

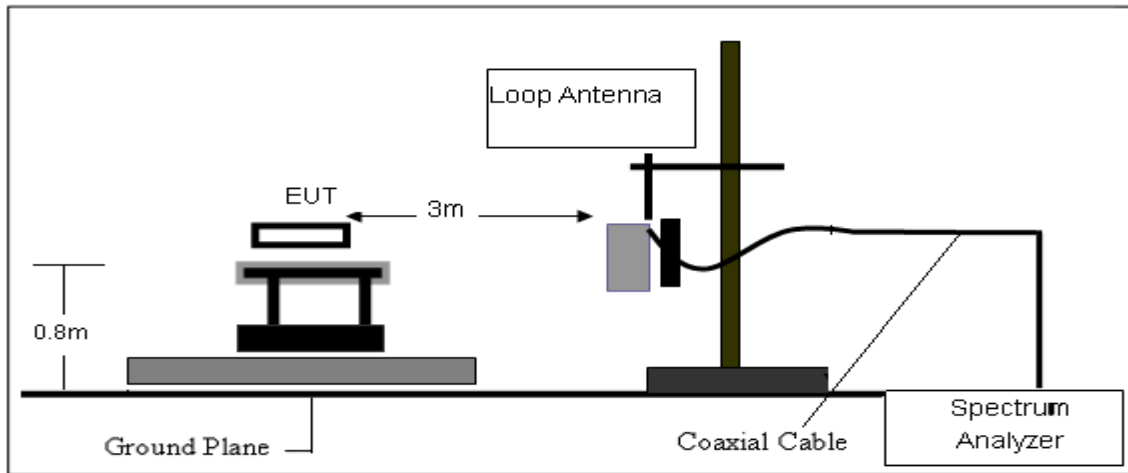
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The 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 Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

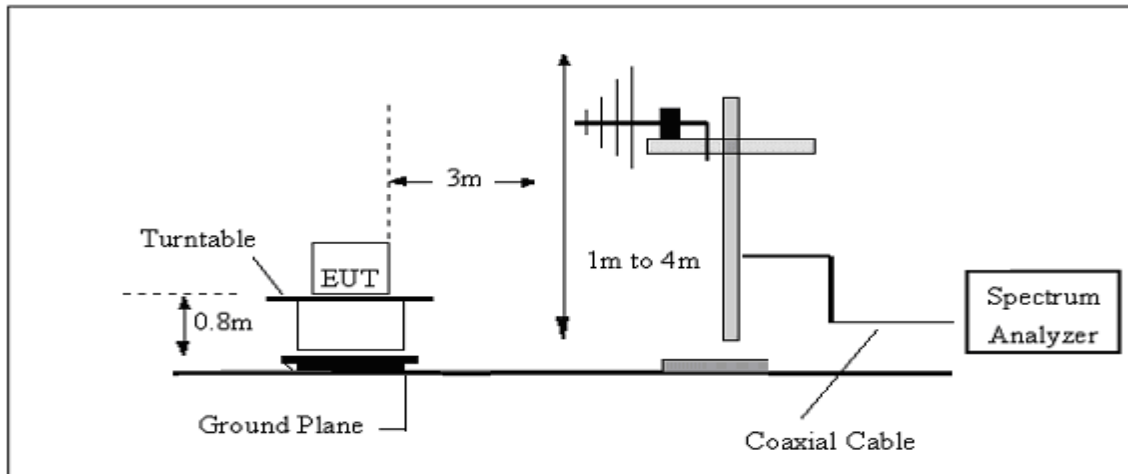
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

### 4.3 TEST SETUP

#### (A) Radiated Emission Test-Up Frequency Below 30MHz



#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz







## 4.4 TEST RESULTS

|               |          |                     |                                 |
|---------------|----------|---------------------|---------------------------------|
| Temperature : | 25 °C    | Relative Humidity : | 50%                             |
| Pressure :    | 1012 hPa | Test Voltage :      | DC 5V from adapter<br>120V/60Hz |
| Test Mode :   | TX Mode  |                     |                                 |

## 4.4.1 Spurious Radiated Emission Below 30 MHz

| Frequency (MHz) | Reading (dB $\mu$ V) | Ant. Pol. (H/V) | Ant. Factor (dB/m) | Cable Loss | Emission Level (dB $\mu$ V/m) | Limits (dB $\mu$ V/m) | Margin (dB) |
|-----------------|----------------------|-----------------|--------------------|------------|-------------------------------|-----------------------|-------------|
| 0.015           | 30.58                | H               | 20.21              | 0.1        | 50.89                         | 124.08                | -73.19      |
| 0.030           | 36.24                | H               | 19.01              | 0.1        | 55.35                         | 118.06                | -62.71      |
| 0.040           | 26.89                | H               | 18.75              | 0.1        | 45.74                         | 115.56                | -69.82      |
| *0.135          | 50.36                | H               | 18.47              | 0.1        | 68.93                         | 105.00                | -36.07      |
| 0.503           | 24.36                | H               | 18.36              | 0.1        | 42.82                         | 73.57                 | -30.75      |
| 25.678          | 45.21                | H               | 22.52              | 0.9        | 68.63                         | 69.50                 | -0.87       |

1. Remark: "H" Horizontal, "V" Vertical

2. "\*" Means Fundamental frequency

3. Emission Level [dB $\mu$ V/m] = Reading [dB $\mu$ V] + Ant. Factor [dB/m] + Cable Loss [dB]

4. Margin [dB] = Emission Level [dB $\mu$ V/m] – Limit [dB $\mu$ V/m]

5. Limit calculation: Limit at specified distance + 40log (300/3) = Limit + 80 dB for up to 0.49 MHz  
Limit at specified distance + 40log (30/3) = Limit + 40 dB for above 0.49 MHz,  
Below 30 MHz

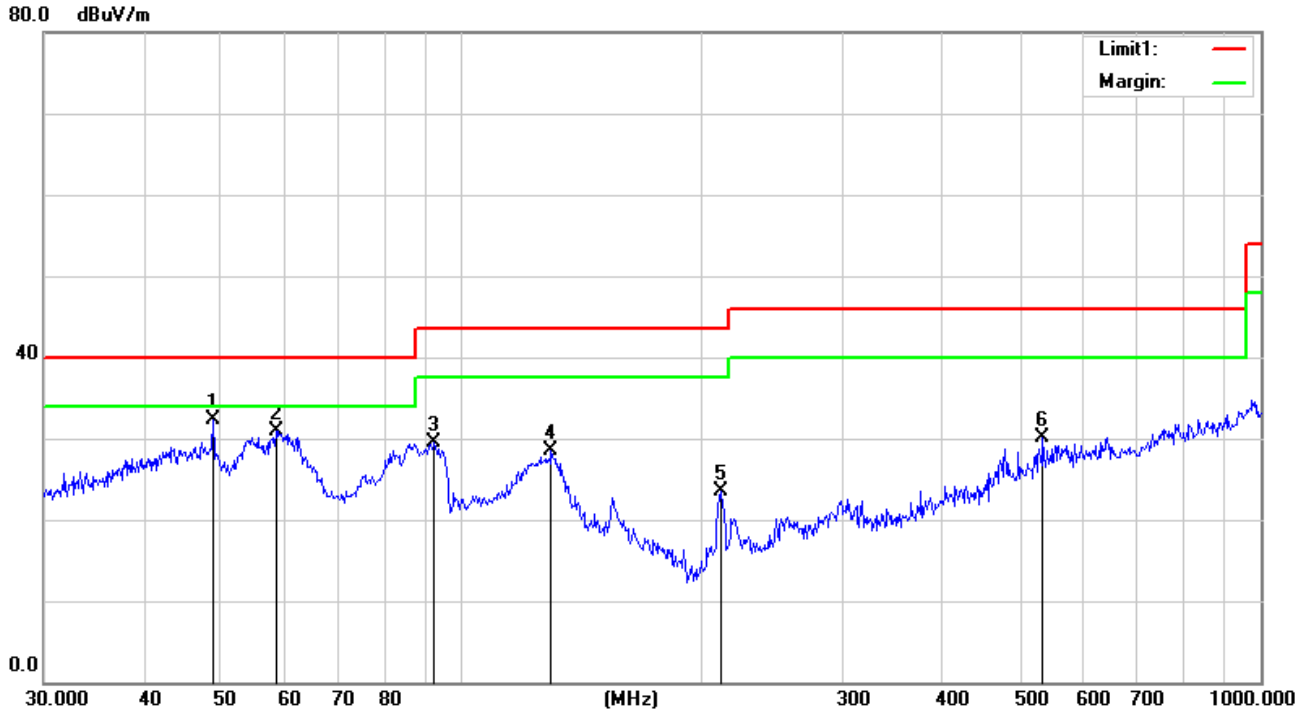


4.4.2 Spurious Radiated Emission below 1 GHz

|               |          |                     |                                 |
|---------------|----------|---------------------|---------------------------------|
| Temperature : | 25 °C    | Relative Humidity : | 50%                             |
| Pressure :    | 1012 hPa | Test Voltage :      | DC 5V from adapter<br>120V/60Hz |
| Test Mode :   | Mode 1   |                     |                                 |

The following table shows the highest levels of radiated emissions on polarizations of vertical

| Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 48.8430         | 23.62          | 8.71                 | 32.33           | 40.00          | -7.67       | QP     |
| 58.6126         | 25.36          | 5.55                 | 30.91           | 40.00          | -9.09       | QP     |
| 92.4624         | 19.78          | 9.81                 | 29.59           | 43.50          | -13.91      | QP     |
| 129.4677        | 16.00          | 12.42                | 28.42           | 43.50          | -15.08      | QP     |
| 210.7860        | 13.73          | 9.87                 | 23.60           | 43.50          | -19.90      | QP     |
| 533.8321        | 9.01           | 21.12                | 30.13           | 46.00          | -15.87      | QP     |



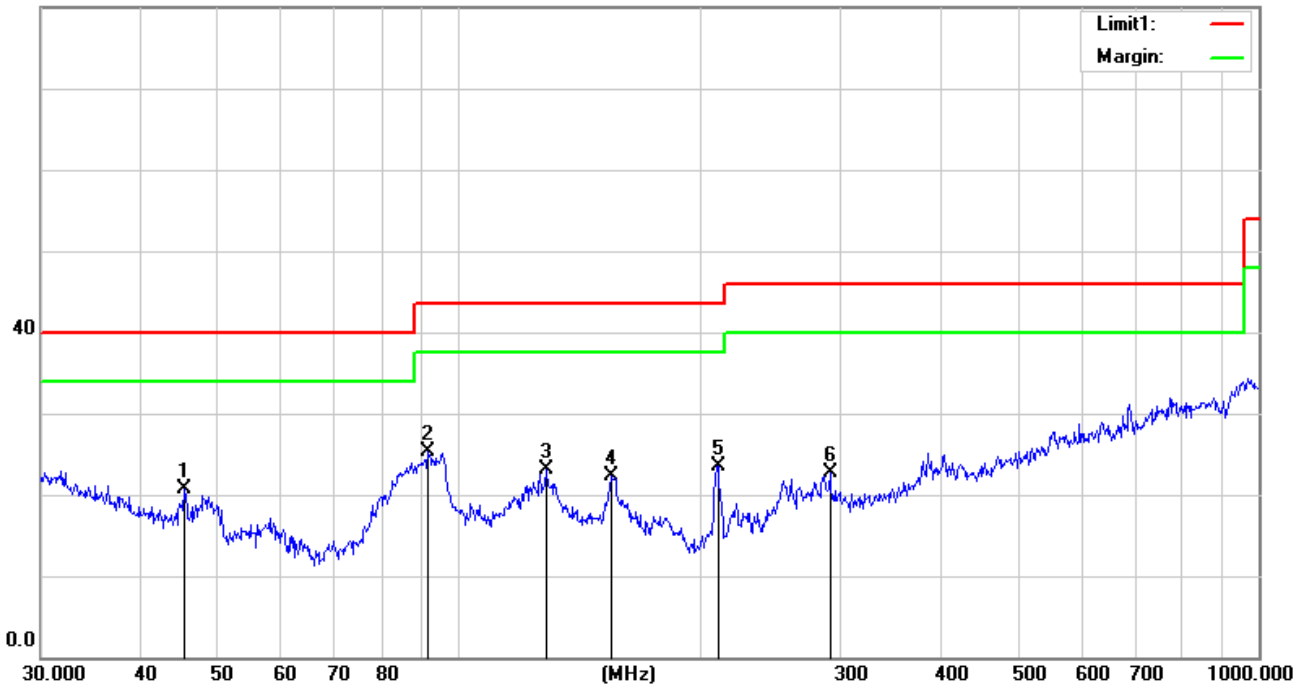


|               |          |                     |                                 |
|---------------|----------|---------------------|---------------------------------|
| Temperature : | 25 °C    | Relative Humidity : | 50%                             |
| Pressure :    | 1012 hPa | Test Voltage :      | DC 5V from adapter<br>120V/60Hz |
| Test Mode :   | Mode 1   |                     |                                 |

The following table shows the highest levels of radiated emissions on polarizations of horizontal

| Frequency (MHz) | Reading (dBuV) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----------------|----------------|----------------------|-----------------|----------------|-------------|--------|
| 45.3755         | 10.12          | 10.58                | 20.70           | 40.00          | -19.30      | QP     |
| 91.4950         | 15.52          | 9.69                 | 25.21           | 43.50          | -18.29      | QP     |
| 128.5630        | 11.36          | 11.74                | 23.10           | 43.50          | -20.40      | QP     |
| 155.3644        | 10.50          | 11.82                | 22.32           | 43.50          | -21.18      | QP     |
| 210.7860        | 13.66          | 9.87                 | 23.53           | 43.50          | -19.97      | QP     |
| 291.0360        | 8.33           | 14.46                | 22.79           | 46.00          | -23.21      | QP     |

80.0 dBuV/m





5. 20 DB BANDWIDTH TEST

5.1 Limit

FCC Part 2.1049, Only applicable to report.

5.2 TEST SETUP

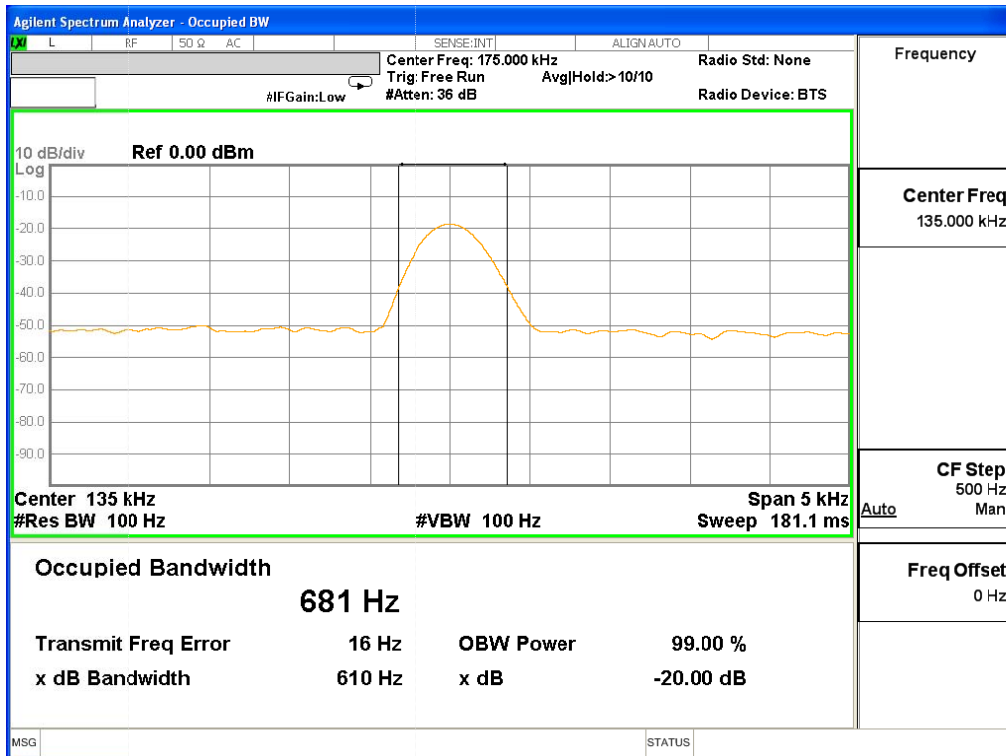
| Spectrum Parameter | Setting  |
|--------------------|--|
| Span Frequency     | approximately 2 to 3 times the 20 dB bandwidth |
| RB                 | greater than 1 % of the 20 dB bandwidth,       |
| VB                 | equal to the RBW                               |
| Detector           | Peak   |
| Trace              | Max Hold                                       |
| Sweep Time         | Auto   |

The test program and configuration, Refer to 4.2 and 4.3

5.3 TEST RESULTS

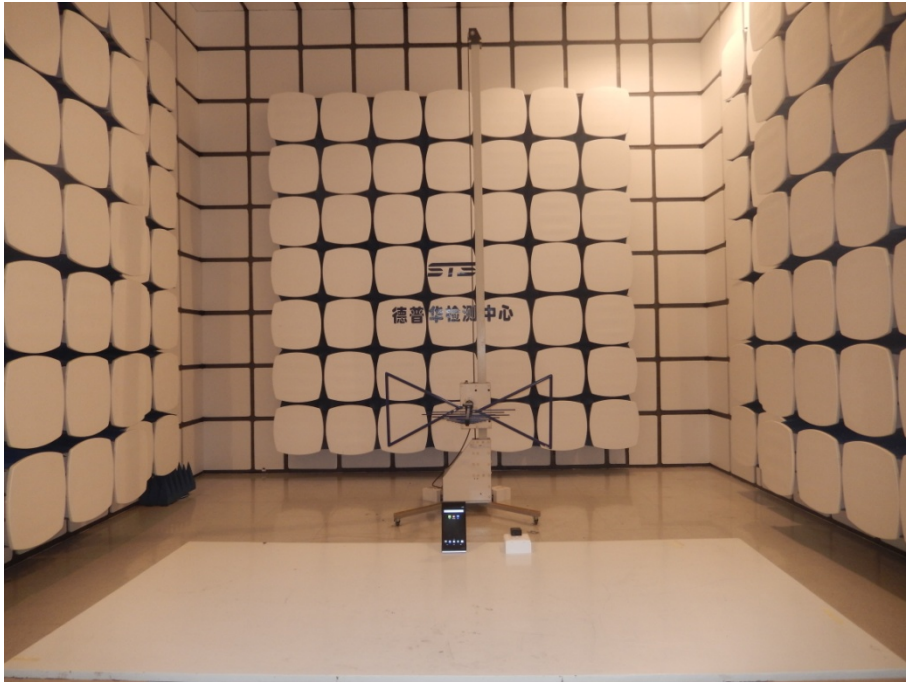
| Operating Frequency (kHz) | 20 dB Bandwidth(Hz) |
|---------------------------|---------------------|
| 135                       | 610                 |

CH00



## APPENDIX-PHOTOS OF TEST SETUP

### Radiated emission Measurement Photos



### Conduction Measurement Photos



※※※※END OF THE REPORT※※※※※

### APPENDIX 2-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Photo 1



Photo 2



Photo 3



Photo 4

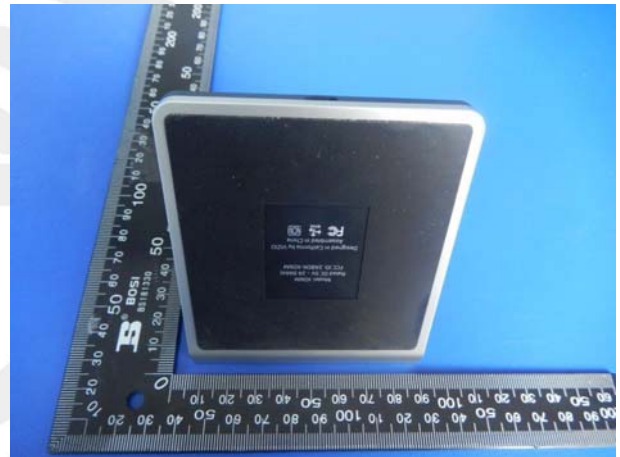


Photo 5



Photo 6





Photo 7



Photo 8

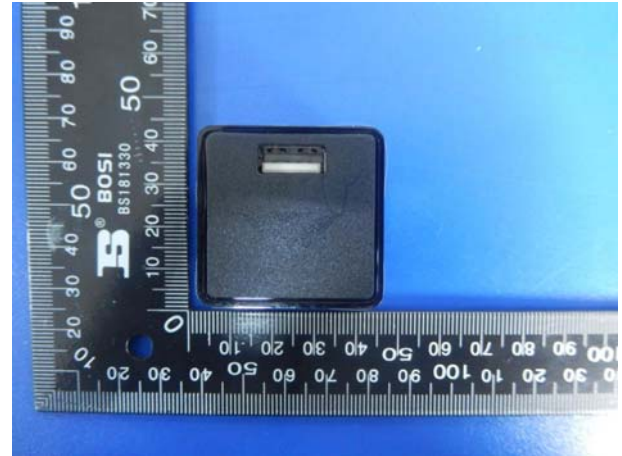


Photo 9



Photo 10

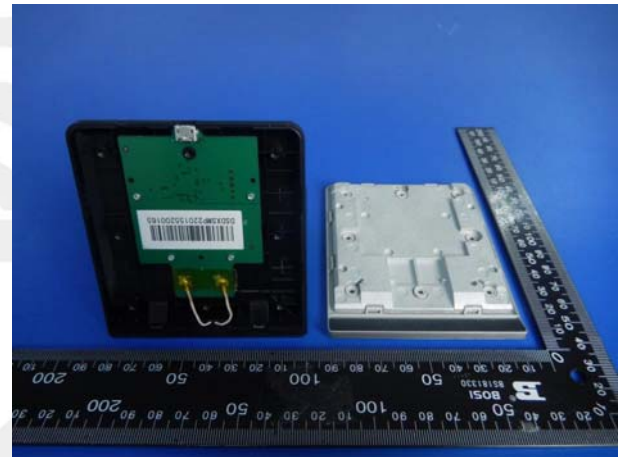


Photo 11

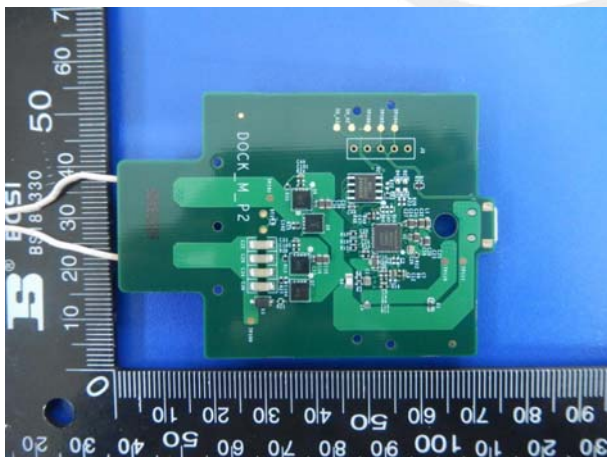
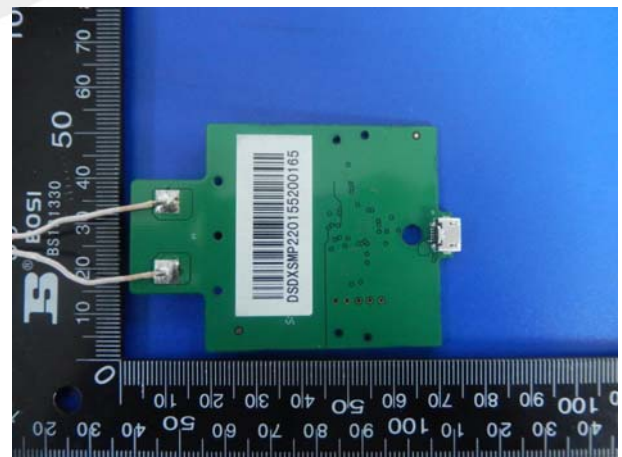


Photo 12



\*\*\*\*\*END OF THE REPORT\*\*\*\*\*