

# FCC TEST REPORT

**FCC ID:2AXECLD230EKS-FPN2****Report Number**..... : ZKT-211021L5583E

Date of Test..... Sep. 23, 2021 to Dec. 13, 2021

Date of issue ..... : Dec. 14, 2021

Total number of pages ..... 30

Test Result ..... : PASS

**Testing Laboratory**..... : Shenzhen ZKT Technology Co., Ltd.

Address ..... : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

**Applicant's name** ..... : LG Display Co., Ltd

Address ..... : LG TWIN TOWERS (EAST), 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea

**Manufacturer's name** ..... : LG Display Co., Ltd

Address ..... : LG TWIN TOWERS (EAST), 128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea

**Test specification:**Standard..... : FCC Part 15 B  
ANSI C63.4:2014

Test procedure ..... : /

Non-standard test method ..... : N/A

**Test Report Form No.** ..... : TRF-EL-117\_V0**Test Report Form(s) Originator** .... : ZKT Testing**Master TRF** ..... : Dated: 2020-01-06

This device described above has been tested by ZKT, 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.

This report shall not be reproduced except in full, without the written approval of ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document.

**Product name**..... : ISS(interactive smart shelf)

Trademark ..... : LG Display

Model/Type reference ..... :  
LD230EKS-FPN2Ratings..... : Input: AC 100-240V-50/60Hz 1.0A Max  
Output: DC 12.0V 3.0A 36.0W

**Testing procedure and testing location:**

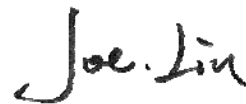
**Testing Laboratory**.....: **Shenzhen ZKT Technology Co., Ltd.**

**Address**.....: 1/F, No. 101, Building B, No. 6, Tangwei Community  
Industrial Avenue, Fuhai Street, Bao'an District,  
Shenzhen, China

**Tested by (name + signature)**.....: Alen He



**Reviewer (name + signature)**.....: Joe Liu



**Approved (name + signature)**.....: Lake Xie



## TABLE OF CONTENT

|                                                              | Page      |
|--------------------------------------------------------------|-----------|
| <b>1.VERSION .....</b>                                       | <b>4</b>  |
| <b>2.GENERAL INFORMATION.....</b>                            | <b>5</b>  |
| 2.1 Description of Device (EUT).....                         | 5         |
| 2.2 Tested auxiliary equipment.....                          | 5         |
| 2.3 Test Facility .....                                      | 5         |
| 2.4 MEASUREMENT UNCERTAINTY .....                            | 5         |
| 2.5 Test Instrument Used .....                               | 6         |
| <b>3.CONDUCTED EMISSION AT THE MAINS TERMINALS TEST.....</b> | <b>7</b>  |
| 3.1 Block Diagram Of Test Setup .....                        | 7         |
| 3.2 Test Standard.....                                       | 7         |
| 3.3 Power Line Conducted Emission Limit.....                 | 7         |
| 3.4 EUT Configuration on Test .....                          | 7         |
| 3.5 Operating Condition of EUT .....                         | 8         |
| 3.6 Test Procedure .....                                     | 8         |
| 3.7 Test Result .....                                        | 9         |
| <b>4.RADIATION EMISSION TEST.....</b>                        | <b>11</b> |
| 4.1 Block Diagram of Test Setup.....                         | 11        |
| 4.2 Test Standard.....                                       | 11        |
| 4.3 Radiation Limit.....                                     | 11        |
| 4.4 EUT Configuration on Test .....                          | 11        |
| 4.5 Operating Condition of EUT .....                         | 11        |
| 4.6 Test Procedure .....                                     | 12        |
| 4.7 Test Result .....                                        | 12        |
| <b>6.EUT TEST PHOTOGRAPHS.....</b>                           | <b>31</b> |

**1.VERSION**

| Report No.       | Version | Description             | Approved      |
|------------------|---------|-------------------------|---------------|
| ZKT-211021L5583E | Rev.01  | Initial issue of report | Dec. 14, 2021 |
|                  |         |                         |               |
|                  |         |                         |               |

## 2.GENERAL INFORMATION

### 2.1 Description of Device (EUT)

EUT : ISS(interactive smart shelf)

Trademark : LG Display

Model Number : LD230EKS-FPN2

Model Difference : -

Power Supply : Input: AC 100-240V-50/60Hz 1.0A Max  
Output: DC 12.0V 3.0A 36.0W

### 2.2 Tested auxiliary equipment

| OUTSIDE SUPPORT EQUIPMENT |                 |                |            |            |            |            |
|---------------------------|-----------------|----------------|------------|------------|------------|------------|
| N o.                      | Equipment       | Model          | Serial No. | Trade name | Data Cable | Power Cord |
| 1                         | AC adaptor      | GQ36-120300-AU | /          | /          | 1m         | Yes        |
| 2                         | Monitor         | HA45NM140      | /          | DELL       | /          | Yes        |
| 3                         | HDMI Cable      | spiron5570     | /          | /          | 1m         | No         |
| 4                         | USB flash drive | USB25630       | /          | Kingston   | 1m         | No         |
| 5                         | Micro USB cable | /              |            |            |            |            |

### 2.3 Test Facility

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299

IC Registered No.: 27033

### 2.4 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Test item                         | Value (dB) |
|-----------------------------------|------------|
| Conducted Emission (150K-30MHZ)   | 3.20       |
| Radiated disturbance30MHz-1000MHz | 4.80       |
|                                   |            |

## 2.5 Test Instrument Used

### Conducted emissions Test

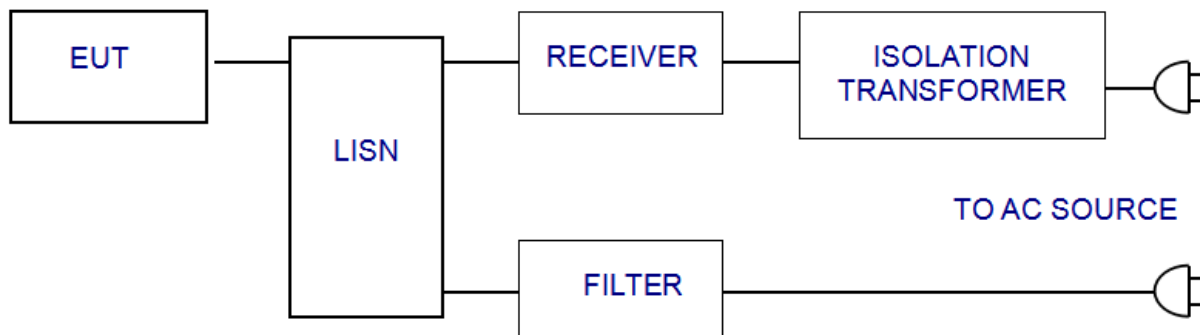
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No.  | Last calibration | Calibrated until |
|------|-------------------|--------------|----------|-------------|------------------|------------------|
| 1    | LISN              | R&S          | ENV216   | 101471      | Sep. 21, 2021    | Sep. 20, 2022    |
| 2    | LISN              | CYBERTEK     | EM5040A  | E1850400149 | Sep. 21, 2021    | Sep. 20, 2022    |
| 3    | Test Cable        | N/A          | C01      | N/A         | Sep. 21, 2021    | Sep. 20, 2022    |
| 4    | Test Cable        | N/A          | C02      | N/A         | Sep. 21, 2021    | Sep. 20, 2022    |
| 5    | EMI Test Receiver | R&S          | ESRP3    | 101946      | Sep. 21, 2021    | Sep. 20, 2022    |
| 6    | Absorbing Clamp   | DZ           | ZN23201  | N/A         | Sep. 21, 2021    | Sep. 20, 2022    |

### Radiated emissions Test (966 chamber)

| Item | Kind of Equipment             | Manufacturer   | Type No.           | Serial No.     | Last calibration | Calibrated until |
|------|-------------------------------|----------------|--------------------|----------------|------------------|------------------|
| 1    | Bilog Antenna                 | Schwarzbeck    | VULB9168           | 00877          | Sep. 21, 2021    | Sep. 20, 2022    |
| 2    | Loop Antenna                  | SCHWARZBECK    | FMZB1519B          | 014            | Sep. 21, 2021    | Sep. 20, 2022    |
| 3    | Test Cable                    | N/A            | R-01               | N/A            | Sep. 21, 2021    | Sep. 20, 2022    |
| 4    | Test Cable                    | N/A            | R-02               | N/A            | Sep. 21, 2021    | Sep. 20, 2022    |
| 5    | EMI Test Receiver             | R&S            | ESCI7              | 101169         | Sep. 21, 2021    | Sep. 20, 2022    |
| 6    | Antenna Mast                  | EM             | SC100_1            | N/A            | N/A              | N/A              |
| 7    | Turn Table                    | EM             | SC100              | N/A            | N/A              | N/A              |
| 8    | Spectrum Analyzer             | KEYSIGHT       | 9020A              | MY5537083<br>5 | Sep. 21, 2021    | Sep. 20, 2022    |
| 9    | Horn Antenna<br>(1GHz-18GHz)  | Schwarzbeck    | BBHA9120D          | 1541           | Sep. 21, 2021    | Sep. 20, 2022    |
| 10   | Horn Antenna<br>(18GHz-40GHz) | A.H. System    | SAS-574            | 588            | Sep. 21, 2021    | Sep. 20, 2022    |
| 11   | Amplifier<br>(30-1000MHz)     | EM Electronics | EM330<br>Amplifier | N/A            | Sep. 21, 2021    | Sep. 20, 2022    |
| 12   | Amplifier<br>(1GHz-40GHz)     | 全聚达            | DLE-161            | 097            | Sep. 21, 2021    | Sep. 20, 2022    |

### 3.CONDUCTED EMISSION AT THE MAINS TERMINALS TEST

#### 3.1 Block Diagram Of Test Setup



#### 3.2 Test Standard

FCC PART 15 B

#### 3.3 Power Line Conducted Emission Limit

For Class A devices:

| Frequency<br>MHz | Limits dB(μV)    |               |
|------------------|------------------|---------------|
|                  | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50      | 79               | 66            |
| 0.50 ~ 30.00     | 73               | 60            |

For Class B devices:

| Frequency<br>MHz | Limits dB(μV)    |               |
|------------------|------------------|---------------|
|                  | 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.

#### 3.4 EUT Configuration on Test

The following equipments are installed on conducted emission test to meet FCC PART 15 B requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

### 3.5 Operating Condition of EUT

3.5.1 Setup the EUT and simulators as shown in Section 3.1.

3.5.2 Turn on the power of all equipments.

3.5.3 Let the EUT work in test modes and test it.

3.5.4 See the table below for specific test modes

| Test Mode                                                                                                                                                      | Description                                        | Test voltage                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------|
| Mode 1                                                                                                                                                         | Micro HDMI Output Display+ Micro USB Data Exchange | AC 120V/60Hz*<br>AC 230V/50Hz |
| Mode 2                                                                                                                                                         | WIFI Link+ BT Link                                 | AC 120V/60Hz<br>AC 230V/50Hz  |
| All test mode(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, (*)the worst data were recorded and reported. |                                                    |                               |

### 3.6 Test Procedure

The EUT is put on the ground and connected to the AC mains through a Artificial Mains Network (AMN). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **FCC PART 15 B** regulations during conducted emission test.

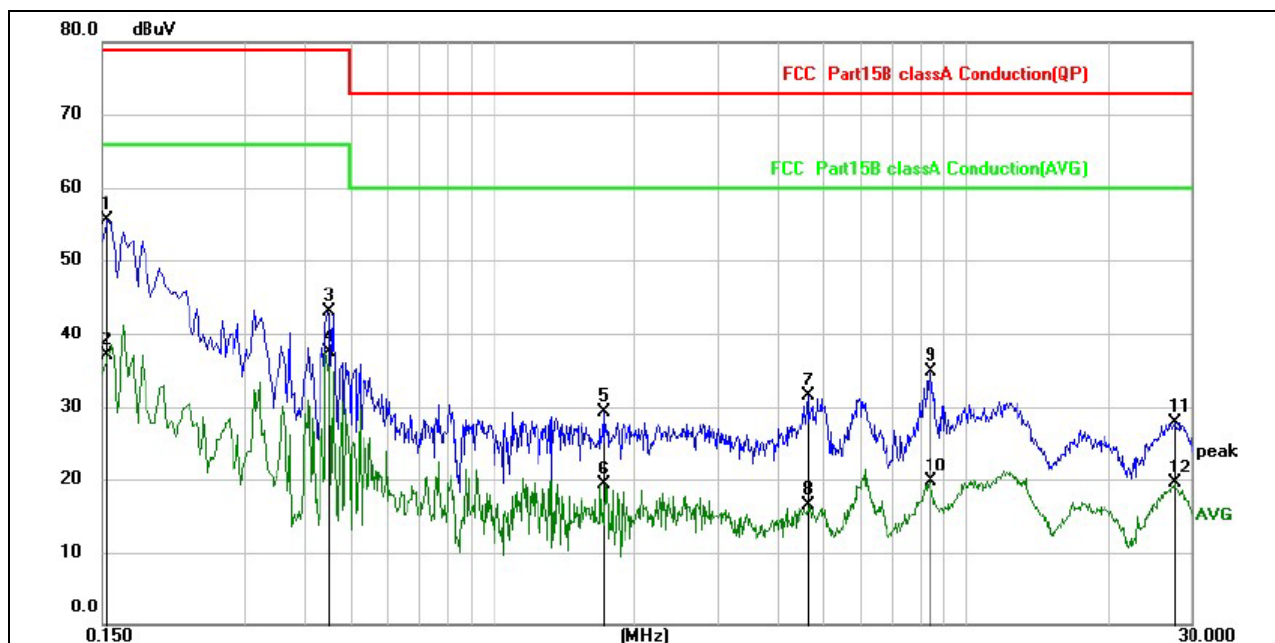
The bandwidth of the test receiver (R&S Test Receiver ESCI) is set at 10KHz.

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



### 3.7 Test Result

|                |              |                    |       |
|----------------|--------------|--------------------|-------|
| Temperature:   | 24℃          | Relative Humidity: | 54%   |
| Pressure:      | 101kPa       | Phase :            | L     |
| Test Voltage : | AC 120V/60Hz | Test Mode:         | Mode1 |

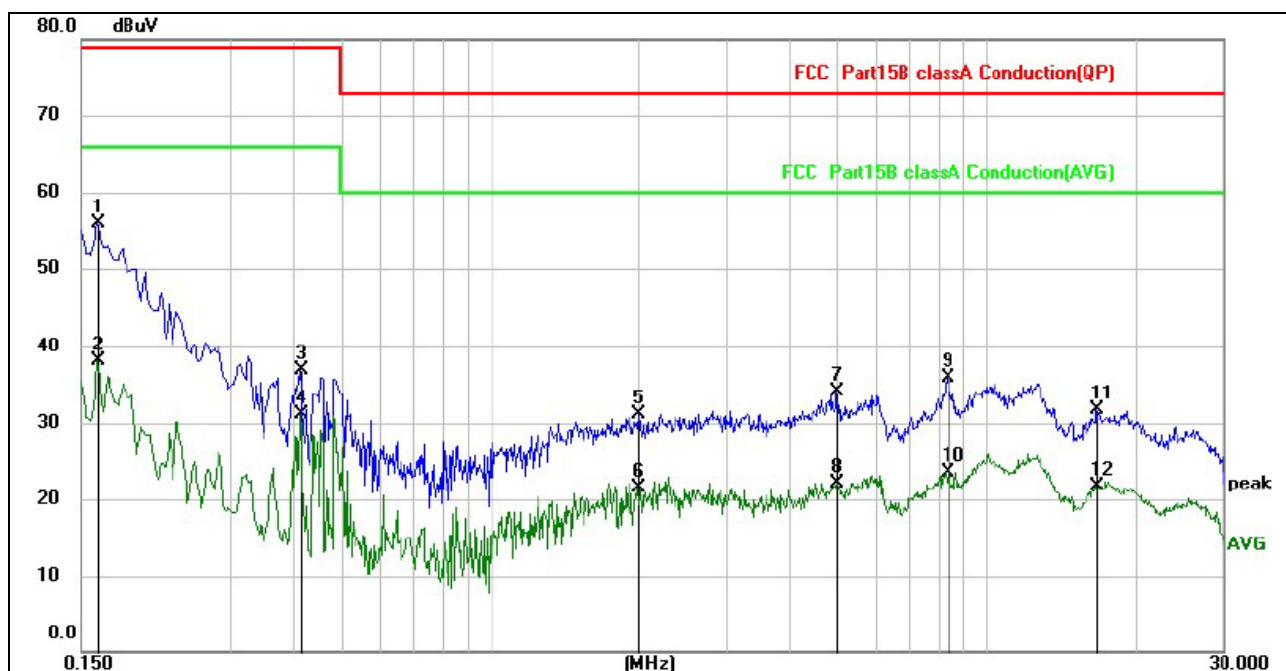


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|
| 1   | *   | 0.1539       | 45.60                    | 9.96                    | 55.56                    | 79.00         | -23.44       | QP       |
| 2   |     | 0.1539       | 27.14                    | 9.96                    | 37.10                    | 66.00         | -28.90       | AVG      |
| 3   |     | 0.4500       | 33.06                    | 9.96                    | 43.02                    | 79.00         | -35.98       | QP       |
| 4   |     | 0.4500       | 27.64                    | 9.96                    | 37.60                    | 66.00         | -28.40       | AVG      |
| 5   |     | 1.7180       | 19.25                    | 10.00                   | 29.25                    | 73.00         | -43.75       | QP       |
| 6   |     | 1.7180       | 9.27                     | 10.00                   | 19.27                    | 60.00         | -40.73       | AVG      |
| 7   |     | 4.6500       | 21.44                    | 10.15                   | 31.59                    | 73.00         | -41.41       | QP       |
| 8   |     | 4.6500       | 6.42                     | 10.15                   | 16.57                    | 60.00         | -43.43       | AVG      |
| 9   |     | 8.3700       | 24.26                    | 10.59                   | 34.85                    | 73.00         | -38.15       | QP       |
| 10  |     | 8.3700       | 9.04                     | 10.59                   | 19.63                    | 60.00         | -40.37       | AVG      |
| 11  |     | 27.6500      | 16.74                    | 11.26                   | 28.00                    | 73.00         | -45.00       | QP       |
| 12  |     | 27.6500      | 8.29                     | 11.26                   | 19.55                    | 60.00         | -40.45       | AVG      |

#### Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

|                |              |                    |       |
|----------------|--------------|--------------------|-------|
| Temperature:   | 24°C         | Relative Humidity: | 54%   |
| Pressure:      | 101kPa       | Phase :            | N     |
| Test Voltage : | AC 120V/60Hz | Test Mode:         | Mode1 |



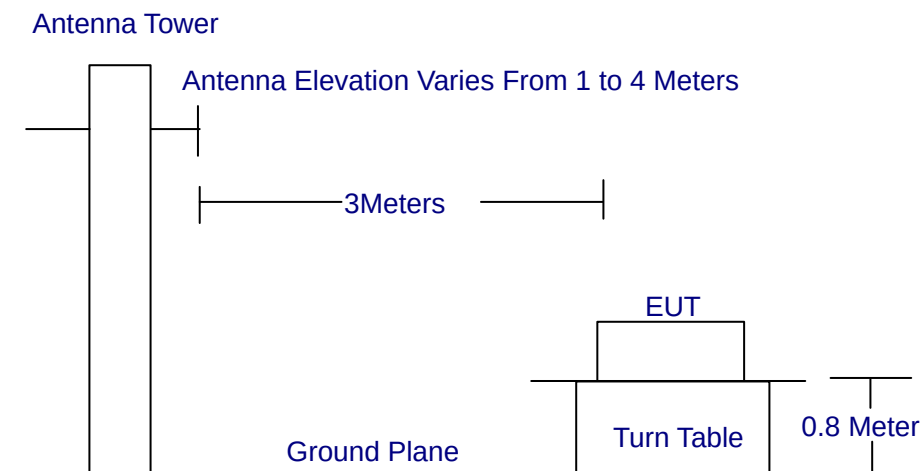
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|
| 1   | *   | 0.1620       | 45.85                    | 9.96                    | 55.81                    | 79.00         | -23.19       | QP       |
| 2   |     | 0.1620       | 28.07                    | 9.96                    | 38.03                    | 66.00         | -27.97       | AVG      |
| 3   |     | 0.4140       | 27.00                    | 9.96                    | 36.96                    | 79.00         | -42.04       | QP       |
| 4   |     | 0.4140       | 21.21                    | 9.96                    | 31.17                    | 66.00         | -34.83       | AVG      |
| 5   |     | 1.9980       | 21.19                    | 10.01                   | 31.20                    | 73.00         | -41.80       | QP       |
| 6   |     | 1.9980       | 11.43                    | 10.01                   | 21.44                    | 60.00         | -38.56       | AVG      |
| 7   |     | 4.9820       | 23.97                    | 10.17                   | 34.14                    | 73.00         | -38.86       | QP       |
| 8   |     | 4.9820       | 11.95                    | 10.17                   | 22.12                    | 60.00         | -37.88       | AVG      |
| 9   |     | 8.3340       | 25.39                    | 10.59                   | 35.98                    | 73.00         | -37.02       | QP       |
| 10  |     | 8.3340       | 13.00                    | 10.59                   | 23.59                    | 60.00         | -36.41       | AVG      |
| 11  |     | 16.6780      | 20.62                    | 11.03                   | 31.65                    | 73.00         | -41.35       | QP       |
| 12  |     | 16.6780      | 10.60                    | 11.03                   | 21.63                    | 60.00         | -38.37       | AVG      |

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

## 4. RADIATION EMISSION TEST

### 4.1 Block Diagram of Test Setup



### 4.2 Test Standard

FCC PART 15 B

### 4.3 Radiation Limit

For Class A devices:

| FREQUENCY<br>(MHz) | DISTANCE<br>(Meters) | FIELD STRENGTHS LIMITS<br>(dB $\mu$ V/m) |
|--------------------|----------------------|------------------------------------------|
| 30 ~ 88            | 3                    | 49.0                                     |
| 88 ~ 216           | 3                    | 54.0                                     |
| 216 ~ 960          | 3                    | 56.0                                     |
| 960 ~ 1000         | 3                    | 60.0                                     |

For Class B devices:

| FREQUENCY<br>(MHz) | DISTANCE<br>(Meters) | FIELD STRENGTHS LIMITS<br>(dB $\mu$ V/m) |
|--------------------|----------------------|------------------------------------------|
| 30 ~ 88            | 3                    | 40.0                                     |
| 88 ~ 216           | 3                    | 43.5                                     |
| 216 ~ 960          | 3                    | 46.0                                     |
| 960 ~ 1000         | 3                    | 54.0                                     |

### 4.4 EUT Configuration on Test

The FCC PART 15 B regulations test method must be used to find the maximum emission during radiated emission test. The configuration of EUT is the same as used in conducted emission test. Please refer to Section 2.2.

### 4.5 Operating Condition of EUT

Same as conducted emission test, which is listed in Section 2.2 except the test set up replaced as Section 4.1.

#### 4.6 Test Procedure

The EUT and its simulators are placed on a turned table that is 0.8 meter above the ground. The turned 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 that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find the maximum emission levels, the interface cable must be manipulated according to FCC PART 15 B on radiated emission test.

The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 120KHz below 1GHz, set at 1MHz above 1GHz. The frequency range from 30MHz to 1000MHz is checked. The highest frequency of the internal sources of the EUT was below 108MHz, so the measurement was only made up to 1GHz.

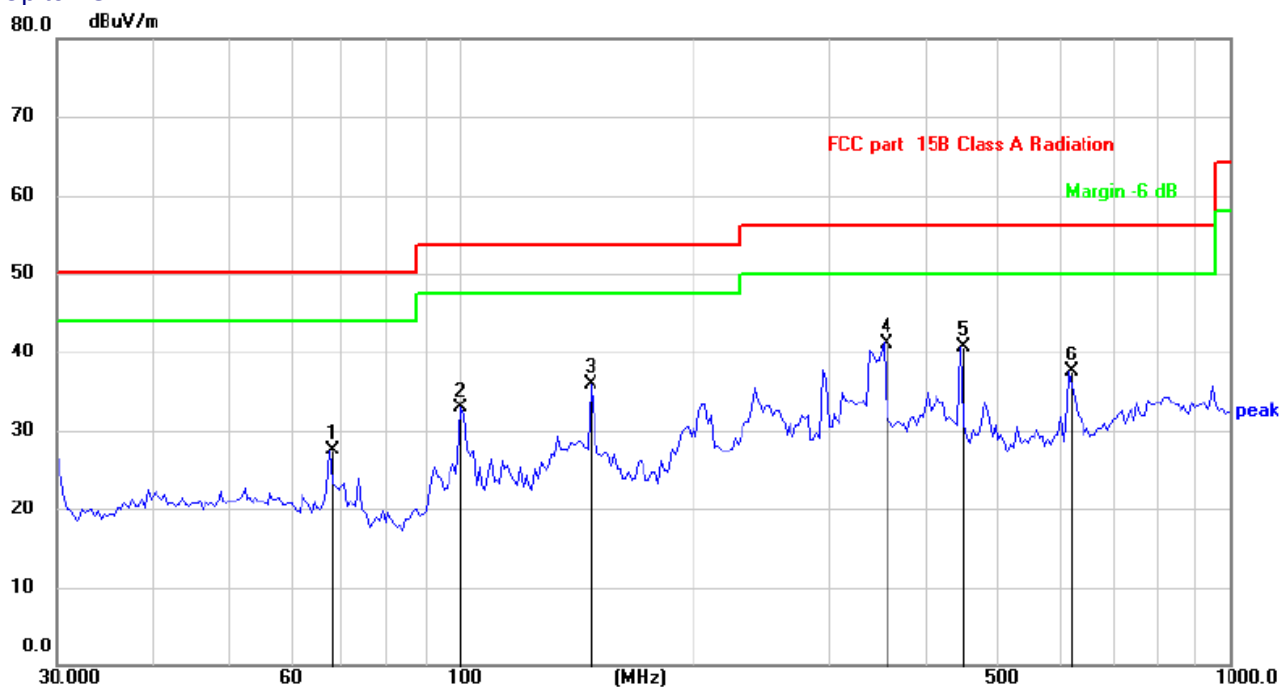
#### 4.7 Test Result

PASS

Please refer to the following page.

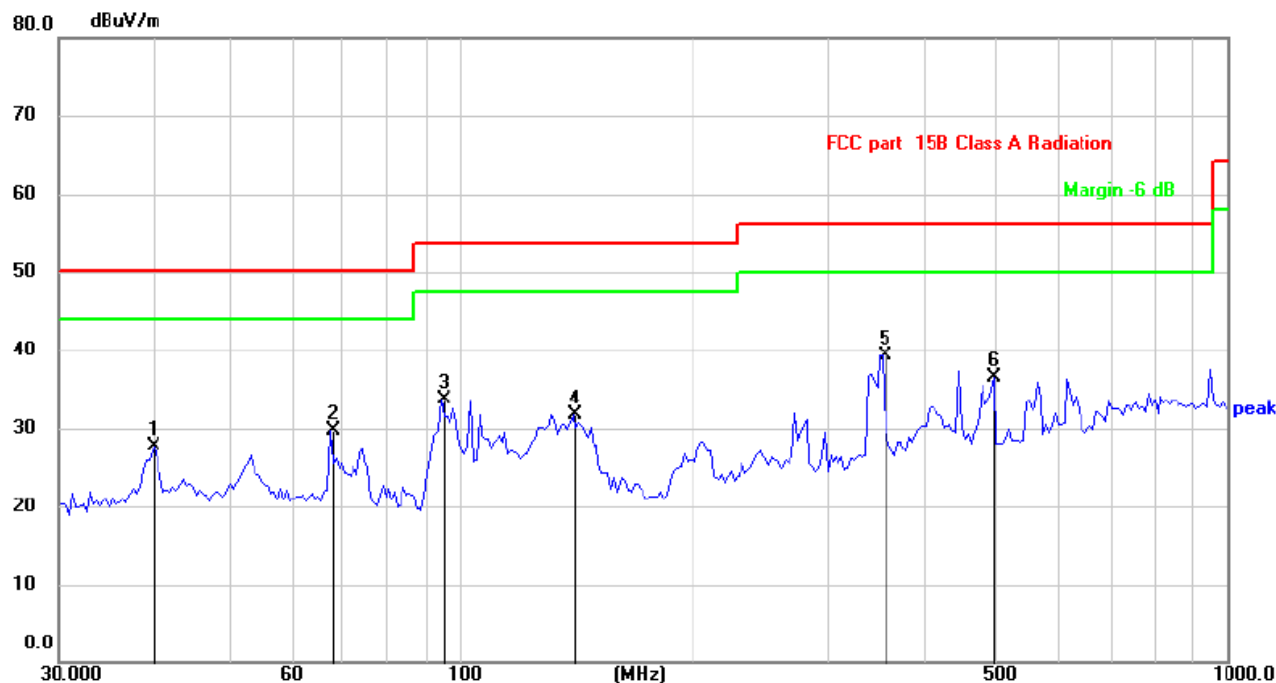
| Radiation Emission Test Data |              |                    |            |
|------------------------------|--------------|--------------------|------------|
| Temperature:                 | 24℃          | Relative Humidity: | 60%        |
| Pressure:                    | 1009hPa      | Phase :            | Horizontal |
| Test Voltage :               | AC 120V/60Hz | Test Mode:         | Mode1      |

Up to 1GHz:



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1   |     | 67.7939      | 35.12                    | -7.54                   | 27.58                      | 50.00         | -22.42     | QP       |
| 2   |     | 100.5806     | 41.57                    | -8.60                   | 32.97                      | 53.50         | -20.53     | QP       |
| 3   |     | 147.9214     | 41.33                    | -5.49                   | 35.84                      | 53.50         | -17.66     | QP       |
| 4   | *   | 355.4273     | 44.46                    | -3.26                   | 41.20                      | 56.00         | -14.80     | QP       |
| 5   |     | 446.4141     | 41.35                    | -0.57                   | 40.78                      | 56.00         | -15.22     | QP       |
| 6   |     | 617.4534     | 34.78                    | 2.81                    | 37.59                      | 56.00         | -18.41     | QP       |

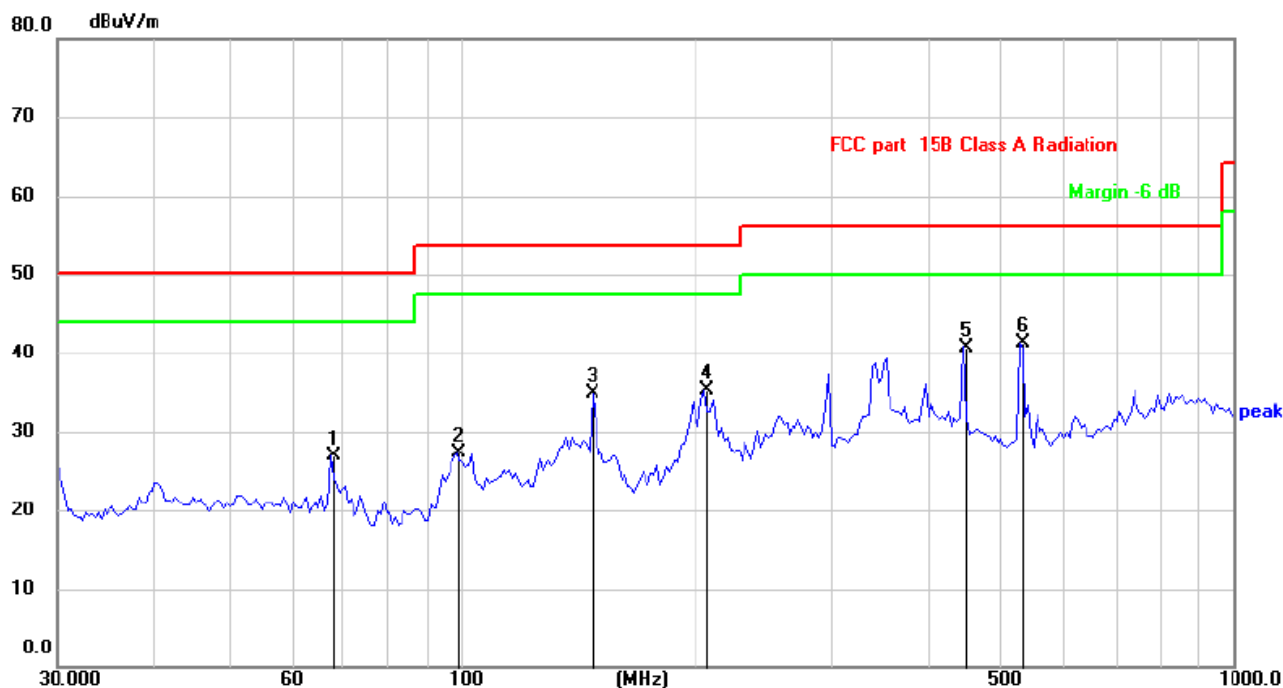
| Radiation Emission Test Data |              |                    |          |
|------------------------------|--------------|--------------------|----------|
| Temperature:                 | 24℃          | Relative Humidity: | 60%      |
| Pressure:                    | 1009hPa      | Phase :            | Vertical |
| Test Voltage :               | AC 120V/60Hz | Test Mode:         | Mode1    |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit | Over   |          |
|-----|-----|----------|---------------|----------------|--------------|-------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dB/m  | dB     | Detector |
| 1   |     | 40.0644  | 33.00         | -5.27          | 27.73        | 50.00 | -22.27 | QP       |
| 2   |     | 67.7939  | 37.18         | -7.54          | 29.64        | 50.00 | -20.36 | QP       |
| 3   |     | 94.5941  | 42.95         | -9.23          | 33.72        | 53.50 | -19.78 | QP       |
| 4   |     | 140.3421 | 37.05         | -5.44          | 31.61        | 53.50 | -21.89 | QP       |
| 5   | *   | 355.4273 | 42.55         | -3.26          | 39.29        | 56.00 | -16.71 | QP       |
| 6   |     | 495.9344 | 35.89         | 0.61           | 36.50        | 56.00 | -19.50 | QP       |



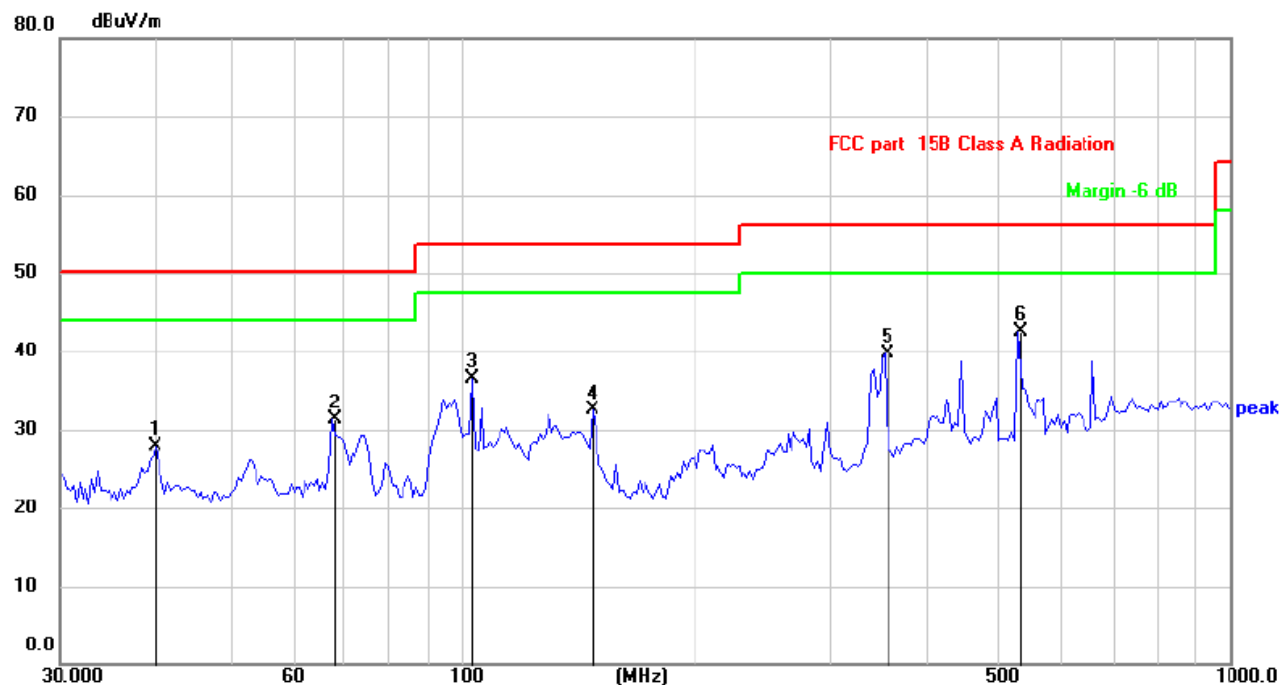
| Radiation Emission Test Data |              |                    |            |
|------------------------------|--------------|--------------------|------------|
| Temperature:                 | 24℃          | Relative Humidity: | 60%        |
| Pressure:                    | 1009hPa      | Phase :            | Horizontal |
| Test Voltage :               | AC 120V/60Hz | Test Mode:         | Mode2      |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1   |     | 67.7939      | 34.44                    | -7.54                   | 26.90                      | 50.00         | -23.10     | QP       |
| 2   |     | 98.8326      | 35.99                    | -8.77                   | 27.22                      | 53.50         | -26.28     | QP       |
| 3   |     | 147.9214     | 40.36                    | -5.49                   | 34.87                      | 53.50         | -18.63     | QP       |
| 4   |     | 206.3976     | 43.17                    | -7.77                   | 35.40                      | 53.50         | -18.10     | QP       |
| 5   |     | 446.4141     | 41.37                    | -0.57                   | 40.80                      | 56.00         | -15.20     | QP       |
| 6   | *   | 527.3205     | 39.99                    | 1.22                    | 41.21                      | 56.00         | -14.79     | QP       |

Radiation Emission Test Data

|                |              |                    |          |
|----------------|--------------|--------------------|----------|
| Temperature:   | 24℃          | Relative Humidity: | 60%      |
| Pressure:      | 1009hPa      | Phase :            | Vertical |
| Test Voltage : | AC 120V/60Hz | Test Mode:         | Mode2    |

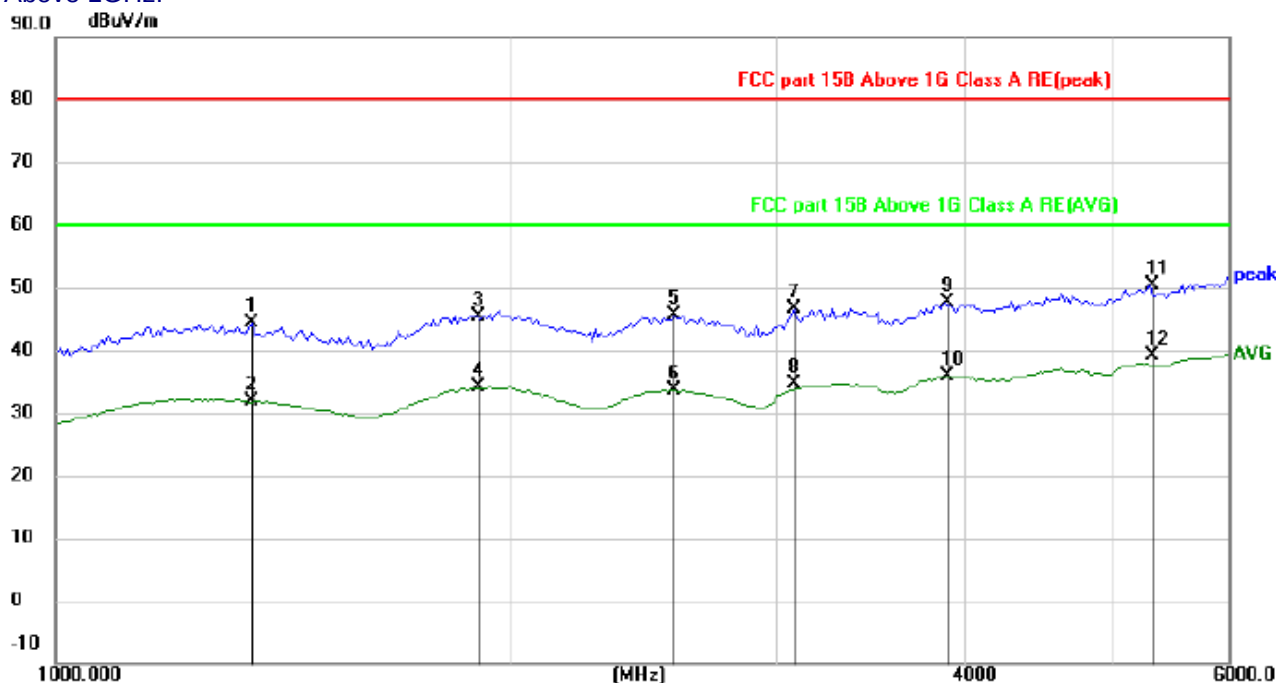


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1   |     | 40.0644      | 33.15                    | -5.27                   | 27.88                      | 50.00         | -22.12     | QP       |
| 2   |     | 67.7939      | 38.89                    | -7.54                   | 31.35                      | 50.00         | -18.65     | QP       |
| 3   |     | 103.2609     | 44.95                    | -8.43                   | 36.52                      | 53.50         | -16.98     | QP       |
| 4   |     | 147.9214     | 38.03                    | -5.49                   | 32.54                      | 53.50         | -20.96     | QP       |
| 5   |     | 355.4273     | 42.88                    | -3.26                   | 39.62                      | 56.00         | -16.38     | QP       |
| 6   | *   | 527.3205     | 41.26                    | 1.22                    | 42.48                      | 56.00         | -13.52     | QP       |



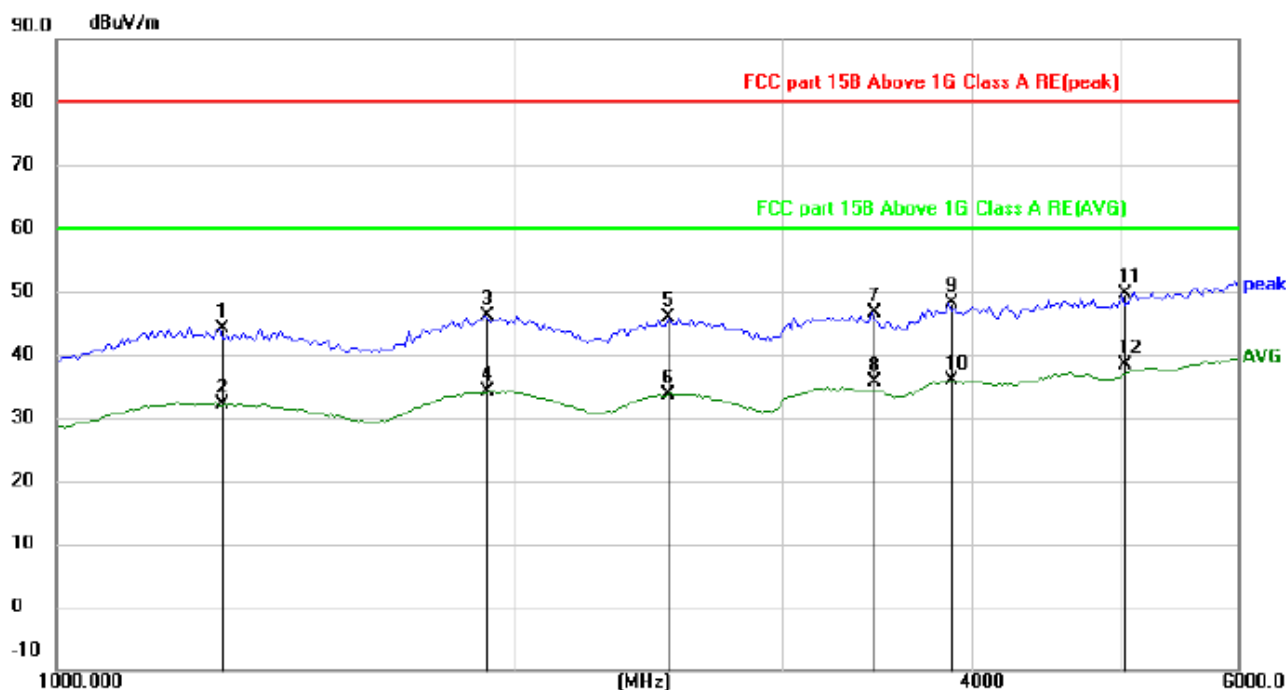
| Radiation Emission Test Data |              |                    |            |
|------------------------------|--------------|--------------------|------------|
| Temperature:                 | 24℃          | Relative Humidity: | 60%        |
| Pressure:                    | 1009hPa      | Phase :            | Horizontal |
| Test Voltage :               | AC 120V/60Hz | Test Mode:         | Mode1      |

Above 1GHz:



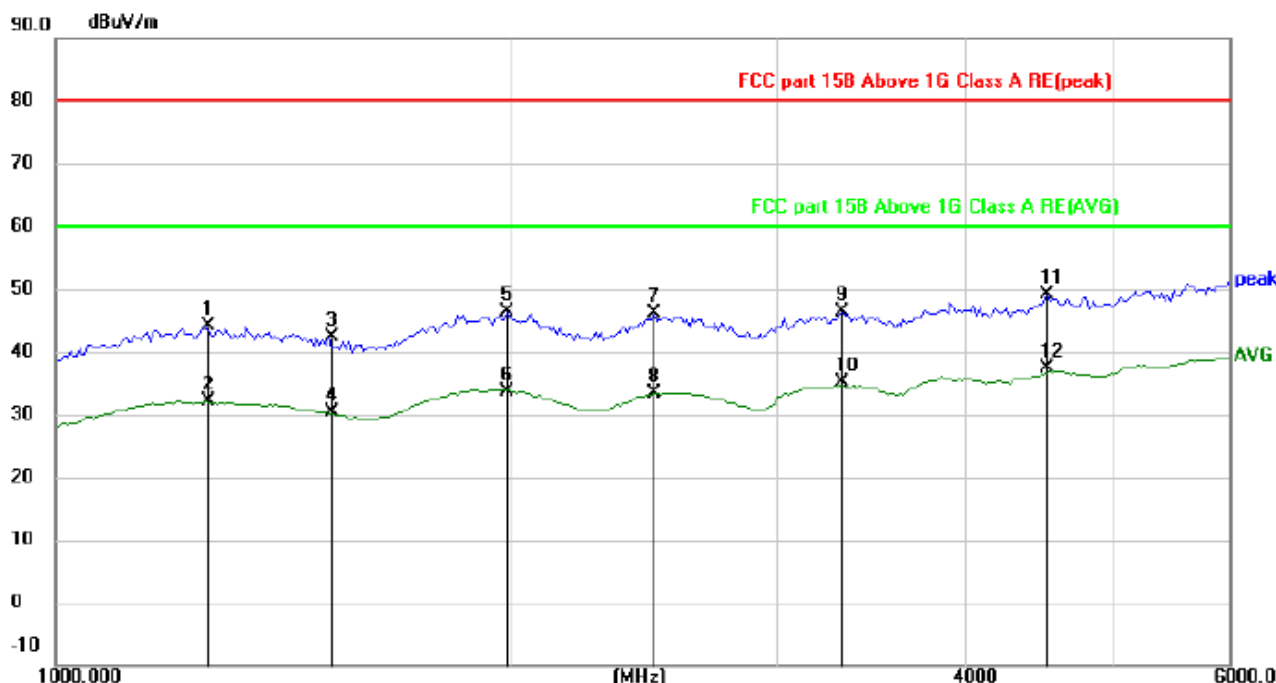
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1   |     | 1350.020     | 45.92                    | -1.64                   | 44.28                      | 80.00         | -35.72     | peak     |
| 2   |     | 1350.020     | 33.46                    | -1.64                   | 31.82                      | 60.00         | -28.18     | AVG      |
| 3   |     | 1897.532     | 43.97                    | 1.49                    | 45.46                      | 80.00         | -34.54     | peak     |
| 4   |     | 1897.532     | 32.63                    | 1.49                    | 34.12                      | 60.00         | -25.88     | AVG      |
| 5   |     | 2573.207     | 43.15                    | 2.51                    | 45.66                      | 80.00         | -34.34     | peak     |
| 6   |     | 2573.207     | 31.04                    | 2.51                    | 33.55                      | 60.00         | -26.45     | AVG      |
| 7   |     | 3091.970     | 43.56                    | 3.16                    | 46.72                      | 80.00         | -33.28     | peak     |
| 8   |     | 3091.970     | 31.50                    | 3.16                    | 34.66                      | 60.00         | -25.34     | AVG      |
| 9   |     | 3885.524     | 41.86                    | 5.73                    | 47.59                      | 80.00         | -32.41     | peak     |
| 10  |     | 3885.524     | 30.21                    | 5.73                    | 35.94                      | 60.00         | -24.06     | AVG      |
| 11  |     | 5316.503     | 40.95                    | 9.31                    | 50.26                      | 80.00         | -29.74     | peak     |
| 12  | *   | 5316.503     | 29.87                    | 9.31                    | 39.18                      | 60.00         | -20.82     | AVG      |

| Radiation Emission Test Data |              |                    |          |
|------------------------------|--------------|--------------------|----------|
| Temperature:                 | 24℃          | Relative Humidity: | 60%      |
| Pressure:                    | 1009hPa      | Phase :            | Vertical |
| Test Voltage :               | AC 120V/60Hz | Test Mode:         | Mode1    |



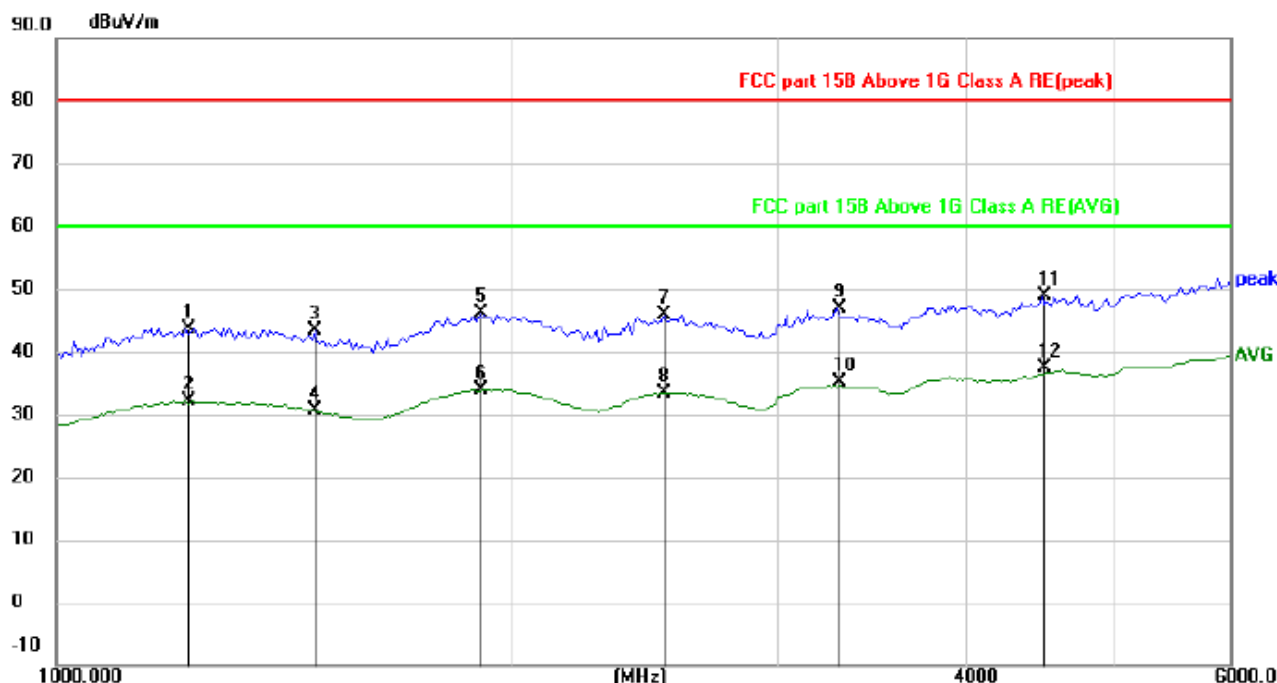
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1   |     | 1279.369     | 46.33                    | -2.15                   | 44.18                      | 80.00         | -35.82     | peak     |
| 2   |     | 1279.369     | 34.31                    | -2.15                   | 32.16                      | 60.00         | -27.84     | AVG      |
| 3   |     | 1914.608     | 44.47                    | 1.58                    | 46.05                      | 80.00         | -33.95     | peak     |
| 4   |     | 1914.608     | 32.52                    | 1.58                    | 34.10                      | 60.00         | -25.90     | AVG      |
| 5   |     | 2527.512     | 43.47                    | 2.47                    | 45.94                      | 80.00         | -34.06     | peak     |
| 6   |     | 2527.512     | 31.27                    | 2.47                    | 33.74                      | 60.00         | -26.26     | AVG      |
| 7   |     | 3442.900     | 42.26                    | 4.29                    | 46.55                      | 80.00         | -33.45     | peak     |
| 8   |     | 3442.900     | 31.23                    | 4.29                    | 35.52                      | 60.00         | -24.48     | AVG      |
| 9   |     | 3868.158     | 42.41                    | 5.67                    | 48.08                      | 80.00         | -31.92     | peak     |
| 10  |     | 3868.158     | 30.21                    | 5.67                    | 35.88                      | 60.00         | -24.12     | AVG      |
| 11  |     | 5038.271     | 41.26                    | 8.46                    | 49.72                      | 80.00         | -30.28     | peak     |
| 12  | *   | 5038.271     | 30.00                    | 8.46                    | 38.46                      | 60.00         | -21.54     | AVG      |

| Radiation Emission Test Data |              |                    |            |
|------------------------------|--------------|--------------------|------------|
| Temperature:                 | 24℃          | Relative Humidity: | 60%        |
| Pressure:                    | 1009hPa      | Phase :            | Horizontal |
| Test Voltage :               | AC 120V/60Hz | Test Mode:         | Mode2      |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1   |     | 1256.650     | 46.36                    | -2.24                   | 44.12                      | 80.00         | -35.88     | peak     |
| 2   |     | 1256.650     | 34.29                    | -2.24                   | 32.05                      | 60.00         | -27.95     | AVG      |
| 3   |     | 1516.772     | 42.96                    | -0.58                   | 42.38                      | 80.00         | -37.62     | peak     |
| 4   |     | 1516.772     | 31.01                    | -0.58                   | 30.43                      | 60.00         | -29.57     | AVG      |
| 5   |     | 1993.371     | 44.29                    | 2.00                    | 46.29                      | 80.00         | -33.71     | peak     |
| 6   |     | 1993.371     | 31.51                    | 2.00                    | 33.51                      | 60.00         | -26.49     | AVG      |
| 7   |     | 2493.774     | 43.80                    | 2.44                    | 46.24                      | 80.00         | -33.76     | peak     |
| 8   |     | 2493.774     | 31.03                    | 2.44                    | 33.47                      | 60.00         | -26.53     | AVG      |
| 9   |     | 3321.707     | 42.40                    | 3.90                    | 46.30                      | 80.00         | -33.70     | peak     |
| 10  |     | 3321.707     | 31.30                    | 3.90                    | 35.20                      | 60.00         | -24.80     | AVG      |
| 11  |     | 4545.041     | 41.90                    | 7.32                    | 49.22                      | 80.00         | -30.78     | peak     |
| 12  | *   | 4545.041     | 30.08                    | 7.32                    | 37.40                      | 60.00         | -22.60     | AVG      |

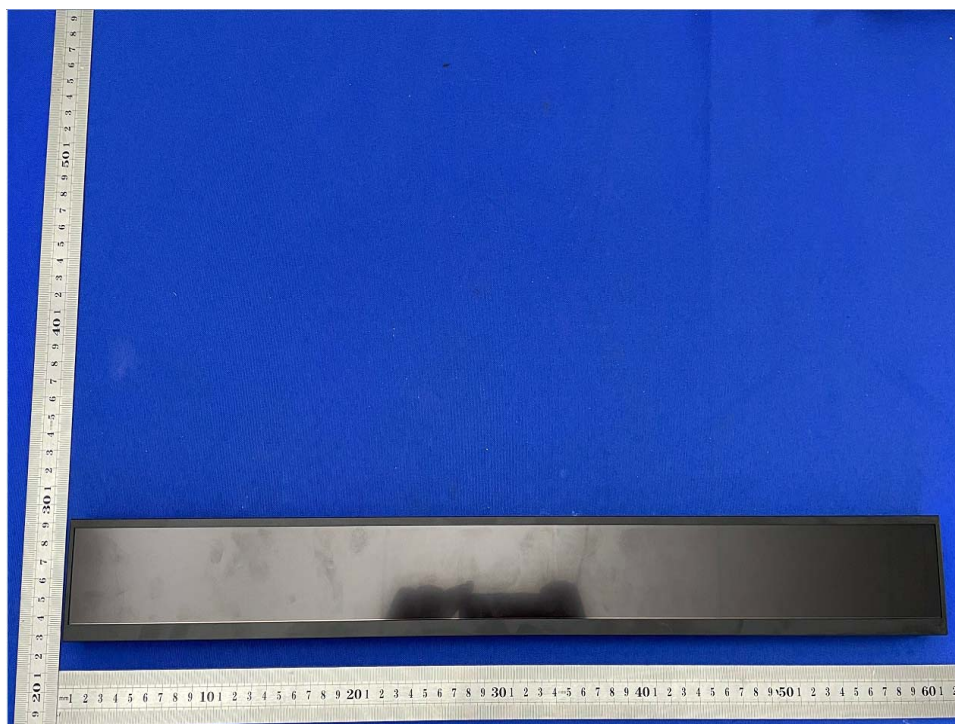
| Radiation Emission Test Data |              |                    |          |
|------------------------------|--------------|--------------------|----------|
| Temperature:                 | 24℃          | Relative Humidity: | 60%      |
| Pressure:                    | 1009hPa      | Phase :            | Vertical |
| Test Voltage :               | AC 120V/60Hz | Test Mode:         | Mode2    |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1   |     | 1217.858     | 46.11                    | -2.39                   | 43.72                      | 80.00         | -36.28     | peak     |
| 2   |     | 1217.858     | 34.46                    | -2.39                   | 32.07                      | 60.00         | -27.93     | AVG      |
| 3   |     | 1483.178     | 44.21                    | -0.76                   | 43.45                      | 80.00         | -36.55     | peak     |
| 4   |     | 1483.178     | 31.48                    | -0.76                   | 30.72                      | 60.00         | -29.28     | AVG      |
| 5   |     | 1906.051     | 44.59                    | 1.53                    | 46.12                      | 80.00         | -33.88     | peak     |
| 6   |     | 1906.051     | 32.39                    | 1.53                    | 33.92                      | 60.00         | -26.08     | AVG      |
| 7   |     | 2527.512     | 43.48                    | 2.47                    | 45.95                      | 80.00         | -34.05     | peak     |
| 8   |     | 2527.512     | 30.96                    | 2.47                    | 33.43                      | 60.00         | -26.57     | AVG      |
| 9   |     | 3292.082     | 42.96                    | 3.81                    | 46.77                      | 80.00         | -33.23     | peak     |
| 10  |     | 3292.082     | 31.37                    | 3.81                    | 35.18                      | 60.00         | -24.82     | AVG      |
| 11  |     | 4504.505     | 41.58                    | 7.23                    | 48.81                      | 80.00         | -31.19     | peak     |
| 12  | *   | 4504.505     | 30.11                    | 7.23                    | 37.34                      | 60.00         | -22.66     | AVG      |



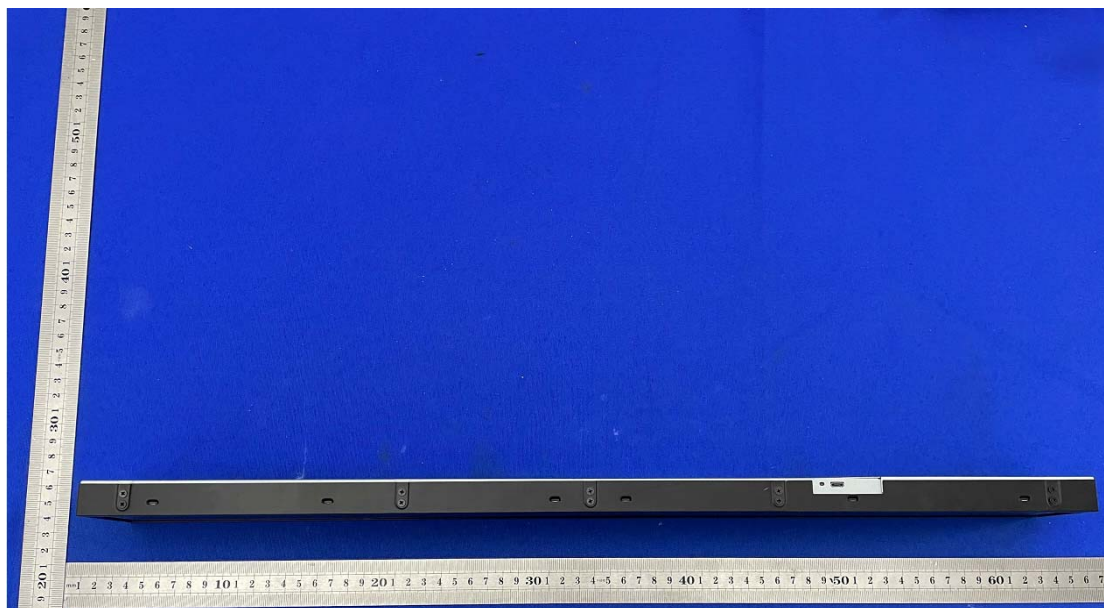
5.EUT Photographs  
EUT Photo 1



EUT Photo 2



EUT Photo 3

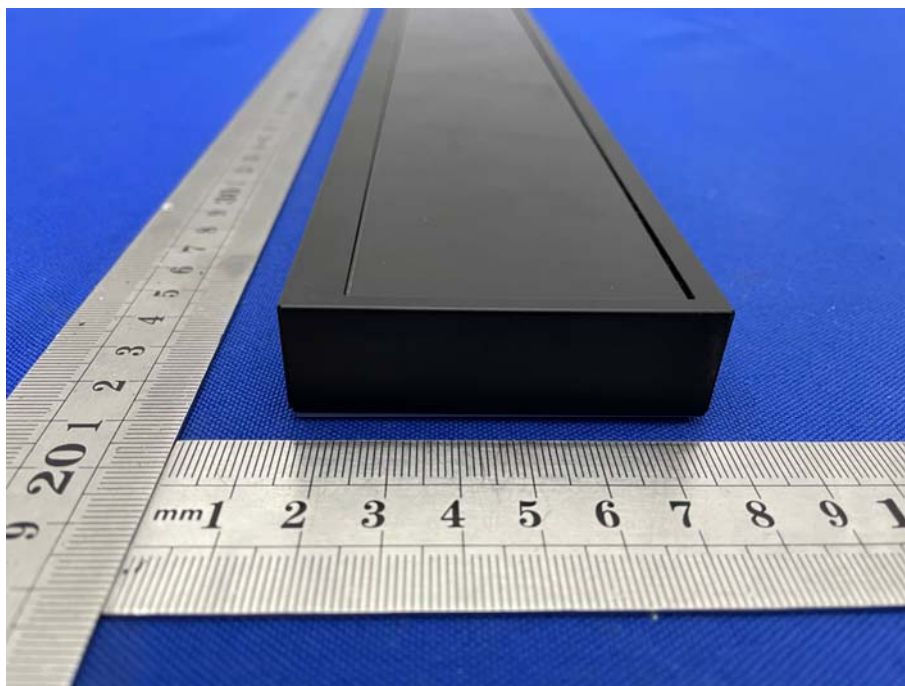


EUT Photo 4

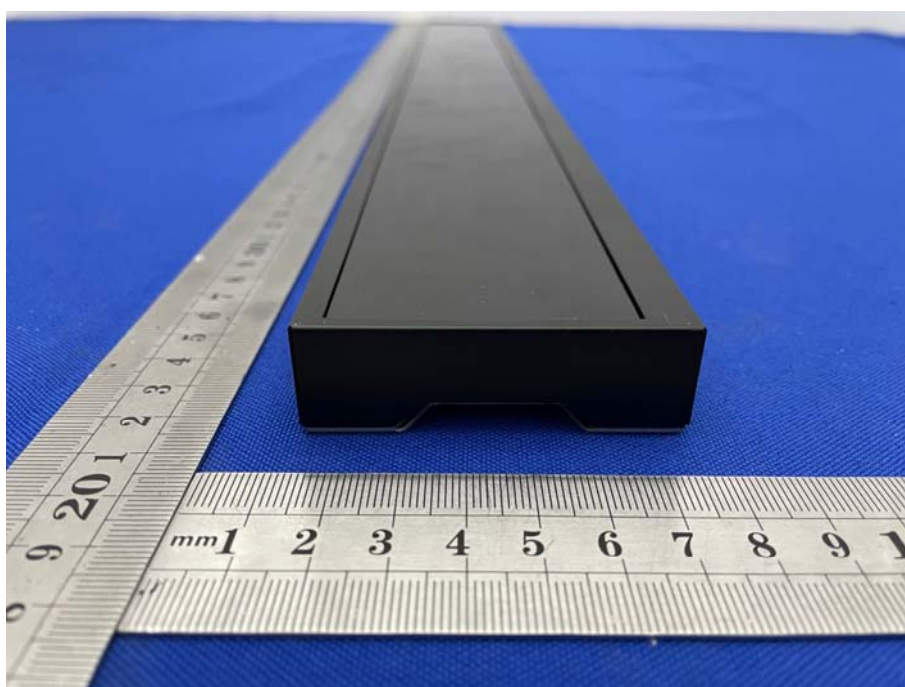




EUT Photo 5



EUT Photo 6



EUT Photo 7



EUT Photo 8

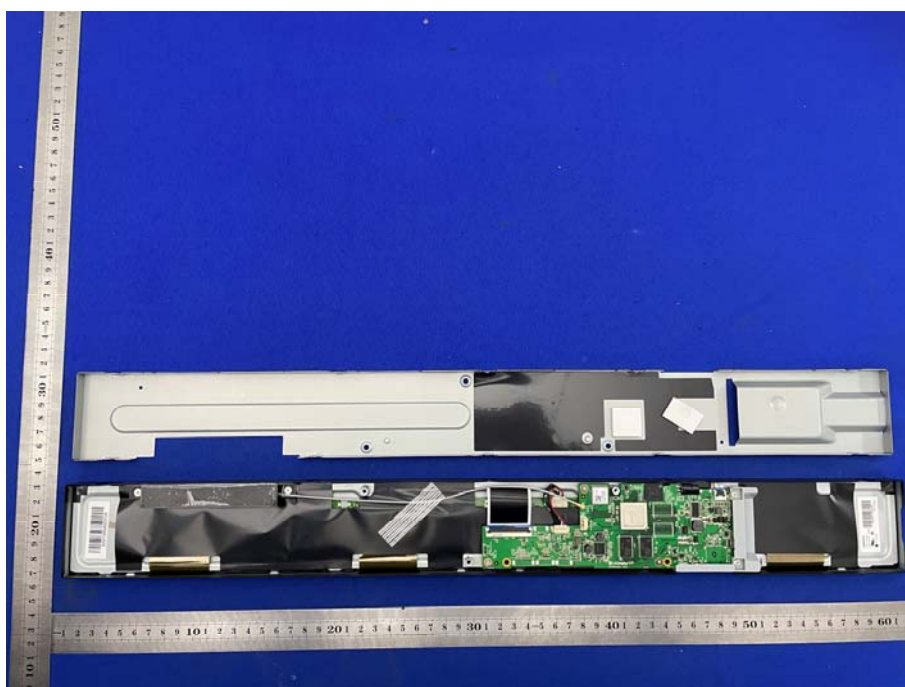




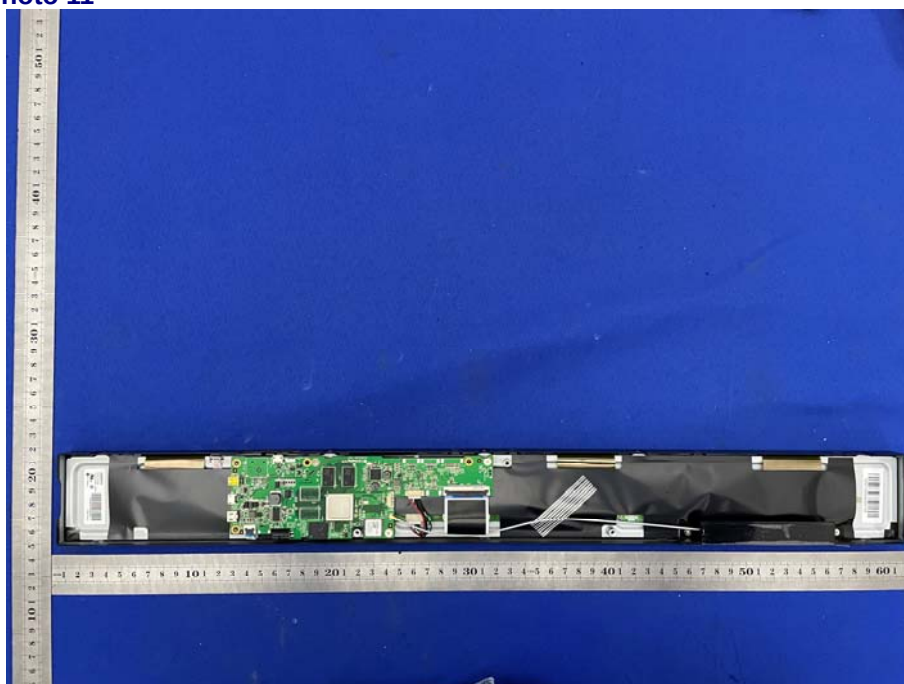
EUT Photo 9



EUT Photo 10



EUT Photo 11

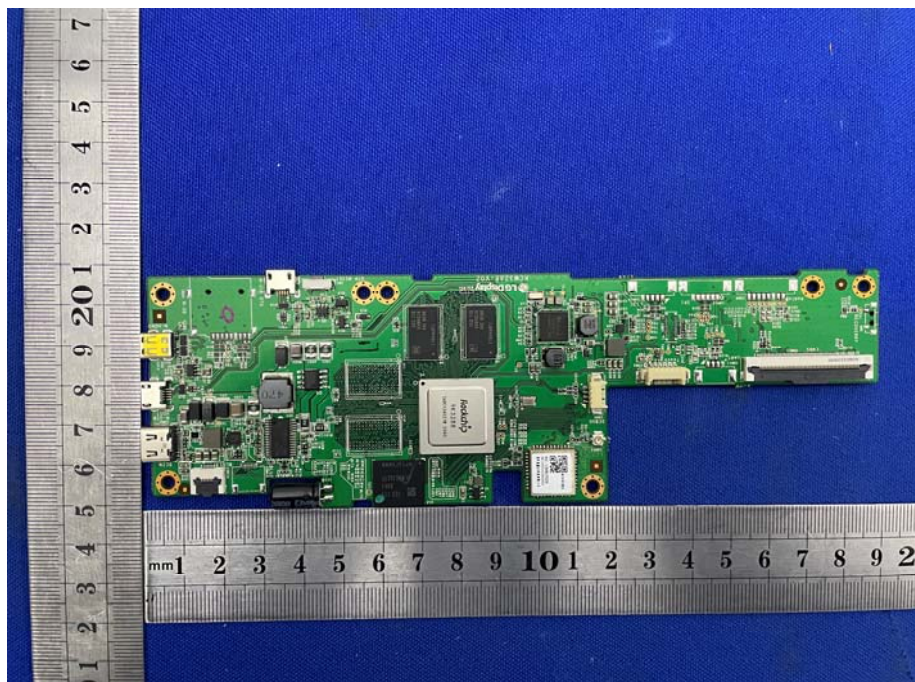


EUT Photo 12

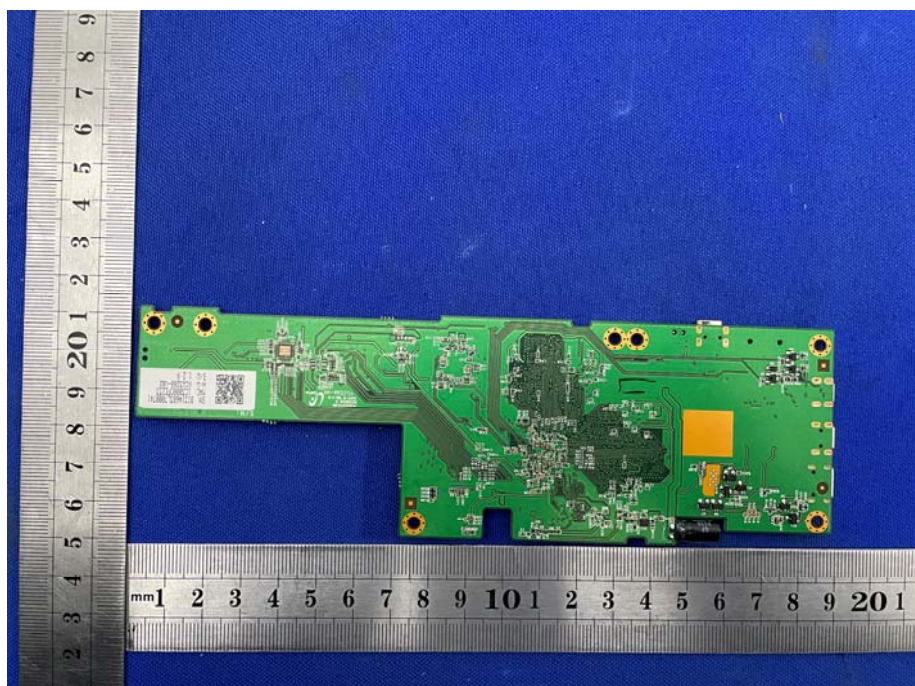




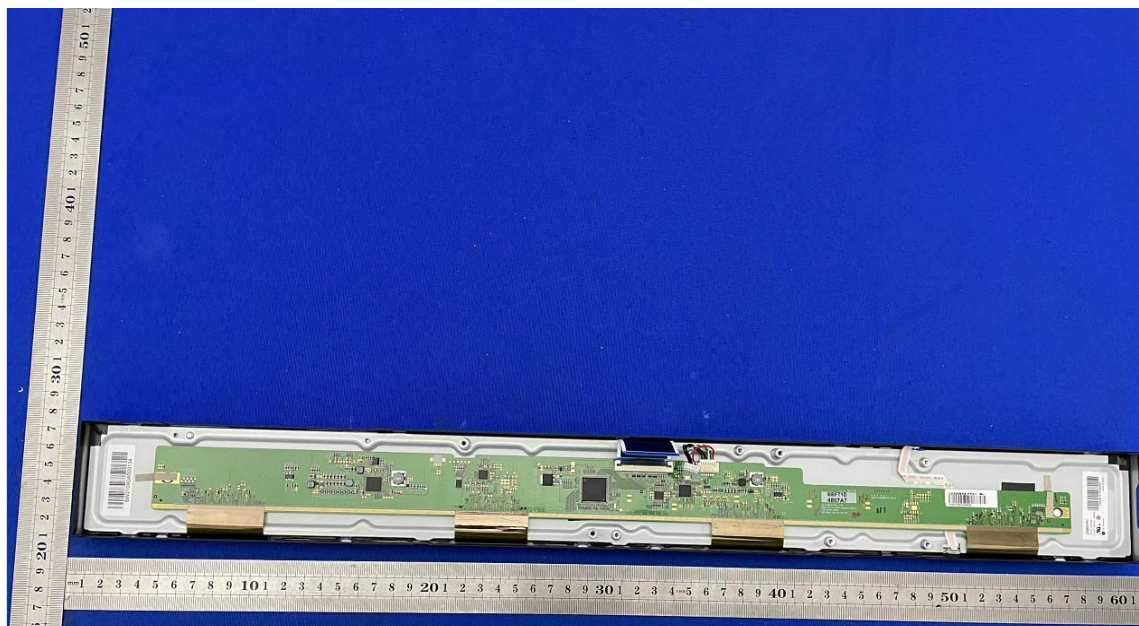
EUT Photo13



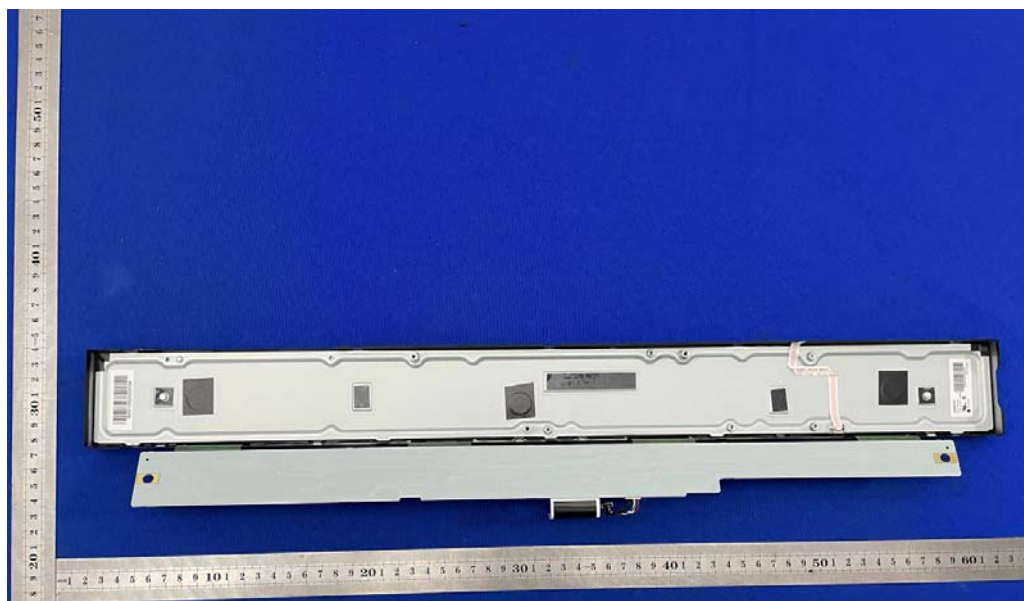
EUT Photo 14



EUT Photo 15



EUT Photo 16





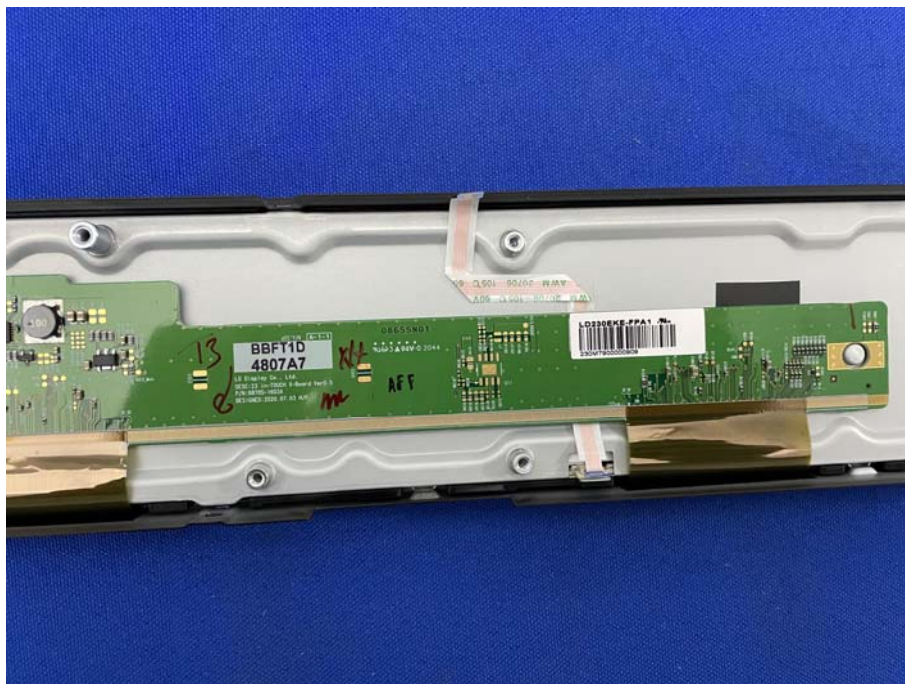
EUT Photo 17



EUT Photo 18



EUT Photo 19



EUT Photo 20





## 6.EUT TEST PHOTOGRAPHS

RE



RE (above 1GHz)



CE



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