

# FCC Radio Test Report

## FCC ID: Y34-UITBSM

### FCC Class II Permissive Change

**Report No.** : TB-FCC146766  
**Applicant** : Outform Ltd  
**Equipment Under Test (EUT)**  
**EUT Name** : 32"IDISPLAY  
**Model No.** : UIT232B-B06  
**Series No.** : Please see the page of 4  
**Brand Name** : N/A  
**Receipt Date** : 2016-01-22  
**Test Date** : 2016-01-22 to 2015-01-25  
**Issue Date** : 2016-01-26  
**Standards** : FCC Part 15, Subpart C (15.247:2015)  
**Test Method** : ANSI C63.10: 2013  
**Conclusions** : **PASS**

In the configuration tested, the EUT complied with the standards specified above,  
The EUT technically complies with the FCC and IC requirements

**Test/Witness  
Engineer**

:

IVAN SU

**Approved &  
Authorized**

:

Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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# 1. General Information about EUT

## 1.1 Client Information

|                     |                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------|
| <b>Applicant</b>    | : Outform Ltd                                                                              |
| <b>Address</b>      | : R405, East, Buliding 203, Tai Ran Industrial Zone, Chengongmiao, Futian, Shenzhen, China |
| <b>Manufacturer</b> | : Outform Ltd                                                                              |
| <b>Address</b>      | : R405, East, Buliding 203, Tai Ran Industrial Zone, Chengongmiao, Futian, Shenzhen, China |

## 1.2 General Description of EUT (Equipment Under Test)

|                               |                                                                                                                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EUT Name</b>               | : 32"IDISPLAY                                                                                                                                                                                                                        |
| <b>Models No.</b>             | : UIT232B-B06, UIT232X-XYX, UIT213X-XYX, UIT310X-XYX, UIT306X-XYX, UIT332X-XYX, UIT432X-XYX (The 1st X is "A" or "B" represents the software version; The 2nd X is A-Z represents the color; YY is client number from "01" to "50".) |
| <b>Model Difference</b>       | : They are identical in circuitry design, PCB layout, electrical components used, internal wiring and functions, only different on color.                                                                                            |
| <b>Product Description</b>    | Operation Frequency:<br>BLE: 2402MHz~2480MHz<br>WIFI 802.11b/g/n(H20): 2412MHz~2462MHz<br>802.11n(H40): 2422MHz~2452MHz see note(2)                                                                                                  |
|                               | Number of Channel: Bluetooth 4.0 (BLE): 40 channels see note(3)                                                                                                                                                                      |
|                               | RF Output Power: -0.114 dBm Conducted Power                                                                                                                                                                                          |
|                               | Antenna Gain: 2.12 dBi Embedded Antenna                                                                                                                                                                                              |
|                               | Modulation Type: GFSK                                                                                                                                                                                                                |
|                               | Bit Rate of Transmitter: 1Mbps(GFSK)                                                                                                                                                                                                 |
| <b>Power Supply</b>           | : DC power supplied by Switching Adapter.                                                                                                                                                                                            |
| <b>Power Rating</b>           | : Switching Adapter:<br>Input:100~240V, 50/60Hz 1.5A Max<br>Output:12V, 5000mA                                                                                                                                                       |
| <b>Connecting I/O Port(S)</b> | : Please refer to the User's Manual                                                                                                                                                                                                  |

### Note:

- (1) This Test Report is FCC Part 15.247 for Bluetooth BLE, the test procedure follows the FCC KDB 558074 D01 DTS Meas Guidance v03r03.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. The EUT has also been tested and complied the FCC 15C for WiFi function, and recorded in the separate test report.

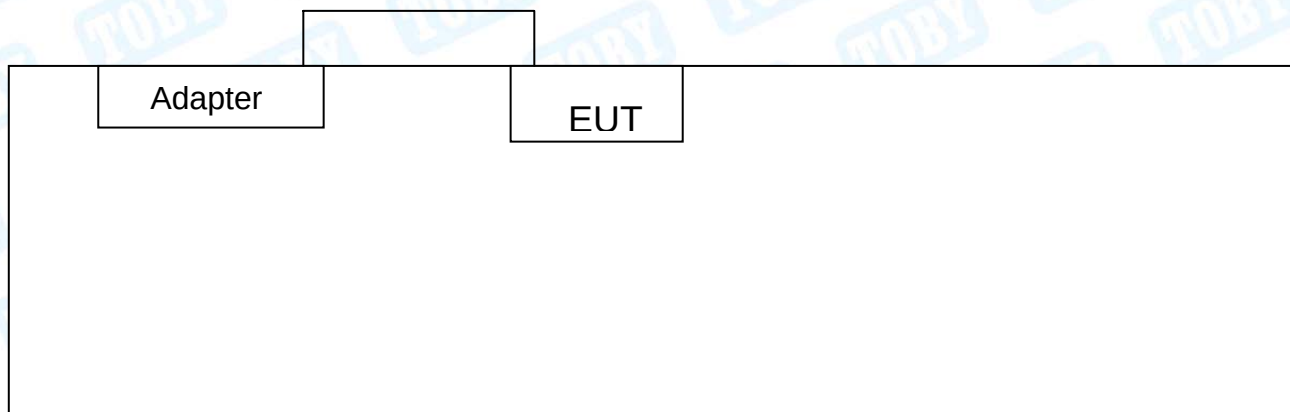
(3) Antenna information provided by the applicant.

(4) Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 00      | 2402            | 14      | 2430            | 28      | 2458            |
| 01      | 2404            | 15      | 2432            | 29      | 2460            |
| 02      | 2406            | 16      | 2434            | 30      | 2462            |
| 03      | 2408            | 17      | 2436            | 31      | 2464            |
| 04      | 2410            | 18      | 2438            | 32      | 2466            |
| 05      | 2412            | 19      | 2440            | 33      | 2468            |
| 06      | 2414            | 20      | 2442            | 34      | 2470            |
| 07      | 2416            | 21      | 2444            | 35      | 2472            |
| 08      | 2418            | 22      | 2446            | 36      | 2474            |
| 09      | 2420            | 23      | 2448            | 37      | 2476            |
| 10      | 2422            | 24      | 2450            | 38      | 2478            |
| 11      | 2424            | 25      | 2452            | 39      | 2480            |
| 12      | 2426            | 26      | 2454            |         |                 |
| 13      | 2428            | 27      | 2456            |         |                 |

### 1.3 Block Diagram Showing the Configuration of System Tested

#### TX Mode



### 1.4 Description of Support Units

The EUT has been tested as an independent unit.

## 1.5 Description of Test Mode

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

| For Conducted Test |                          |
|--------------------|--------------------------|
| Final Test Mode    | Description              |
| Mode 1             | AC Charging With TX Mode |

| For Radiated Test |                            |
|-------------------|----------------------------|
| Final Test Mode   | Description                |
| Mode 2            | AC Charging With TX Mode   |
| Mode 3            | TX Mode (Channel 00/20/39) |

### Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.  
According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:  
Bluetooth BLE Mode: GFSK Modulation Transmitting mode.
- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a mobile unit; in normal use it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

## 1.6 Description of Test Software Setting

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 of RF setting.

| Test Software Version | Realtek MP Test |       |       |
|-----------------------|-----------------|-------|-------|
| Channel               | CH 00           | CH 20 | CH 39 |
| BLE Mode              | DEF             | DEF   | DEF   |

## 1.7 Measurement Uncertainty

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

| Test Item          | Parameters                           | Expanded Uncertainty ( $U_{Lab}$ ) |
|--------------------|--------------------------------------|------------------------------------|
| Conducted Emission | Level Accuracy:<br>9kHz~150kHz       | $\pm 3.42$ dB                      |
|                    | 150kHz to 30MHz                      | $\pm 3.42$ dB                      |
| Radiated Emission  | Level Accuracy:<br>9kHz to 30 MHz    | $\pm 4.60$ dB                      |
| Radiated Emission  | Level Accuracy:<br>30MHz to 1000 MHz | $\pm 4.40$ dB                      |
| Radiated Emission  | Level Accuracy:<br>Above 1000MHz     | $\pm 4.20$ dB                      |

## 1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

### **FCC List No.: (811562)**

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

### **IC Registration No.: (11950A-1)**

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

## 2. Test Summary

| FCC Part 15 Subpart C(15.247)/RSS 247 Issue 1                                                                                                                                                                                                                                                                                       |                    |                                        |          |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------|----------|----------------|
| Standard Section                                                                                                                                                                                                                                                                                                                    |                    | Test Item                              | Judgment | Remark         |
| FCC                                                                                                                                                                                                                                                                                                                                 | IC                 |                                        |          |                |
| 15.203                                                                                                                                                                                                                                                                                                                              | /                  | Antenna Requirement                    | PASS     | N/A            |
| 15.207                                                                                                                                                                                                                                                                                                                              | RSS-GEN 7.2.4      | Conducted Emission                     | PASS     | N/A            |
| 15.205                                                                                                                                                                                                                                                                                                                              | RSS-GEN 7.2.2      | Restricted Bands                       | PASS     | N/A            |
| 15.247(a)(2)                                                                                                                                                                                                                                                                                                                        | RSS 247<br>5.2 (1) | 6dB Bandwidth                          | PASS     | N/A<br>Note(3) |
| 15.247(b)                                                                                                                                                                                                                                                                                                                           | RSS 247<br>5.4 (4) | Peak Output Power                      | PASS     | N/A<br>Note(3) |
| 15.247(e)                                                                                                                                                                                                                                                                                                                           | RSS 247<br>5.2 (2) | Power Spectral Density                 | PASS     | N/A<br>Note(3) |
| 15.247(d)                                                                                                                                                                                                                                                                                                                           | RSS 247<br>5.5     | Transmitter Radiated Spurious Emission | PASS     | N/A            |
| <b>Note</b> (1): “/” for no requirement for this test item.<br>(2): N/A is an abbreviation for Not Applicable.<br>(3): This report is Class II change report for the original equipment have changed, the transmitter module itself has not changed. More information about the test data please refer to the original test report. |                    |                                        |          |                |

### 3. Test Equipment

| Conducted Emission Test |                                  |             |            |               |               |
|-------------------------|----------------------------------|-------------|------------|---------------|---------------|
| Equipment               | Manufacturer                     | Model No.   | Serial No. | Last Cal.     | Cal. Due Date |
| EMI Test Receiver       | Rohde & Schwarz                  | ESCI        | 100321     | Aug. 07, 2015 | Aug. 06, 2016 |
| RF Switching Unit       | Compliance Direction Systems Inc | RSU-A4      | 34403      | Aug. 07, 2015 | Aug. 06, 2016 |
| AMN                     | SCHWARZBECK                      | NNBL 8226-2 | 8226-2/164 | Aug. 07, 2015 | Aug. 06, 2016 |
| LISN                    | Rohde & Schwarz                  | ENV216      | 101131     | Aug. 07, 2015 | Aug. 06, 2016 |
| Radiation Emission Test |                                  |             |            |               |               |
| Equipment               | Manufacturer                     | Model No.   | Serial No. | Last Cal.     | Cal. Due Date |
| Spectrum Analyzer       | Agilent                          | E4407B      | MY45106456 | Aug. 29, 2015 | Aug. 28, 2016 |
| EMI Test Receiver       | Rohde & Schwarz                  | ESCI        | 100010/007 | Aug. 07, 2015 | Aug. 06, 2016 |
| Bilog Antenna           | ETS-LINDGREN                     | 3142E       | 00117537   | Mar. 28, 2015 | Mar. 27, 2016 |
| Bilog Antenna           | ETS-LINDGREN                     | 3142E       | 00117542   | Mar. 28, 2015 | Mar. 27, 2016 |
| Horn Antenna            | ETS-LINDGREN                     | 3117        | 00143207   | Mar. 28, 2015 | Mar. 27, 2016 |
| Horn Antenna            | ETS-LINDGREN                     | 3117        | 00143209   | Mar. 28, 2015 | Mar. 27, 2016 |
| Pre-amplifier           | Sonoma                           | 310N        | 185903     | Mar. 28, 2015 | Mar. 27, 2016 |
| Pre-amplifier           | HP                               | 8447B       | 3008A00849 | Mar. 28, 2015 | Mar. 27, 2016 |
| Cable                   | HUBER+SUHNER                     | 100         | SUCOFLEX   | Mar. 28, 2015 | Mar. 27, 2016 |
| Positioning Controller  | ETS-LINDGREN                     | 2090        | N/A        | N/A           | N/A           |

## 4. Conducted Emission Test

### 4.1 Test Standard and Limit

#### 4.1.1 Test Standard

FCC Part 15.207

#### 4.1.2 Test Limit

**Conducted Emission Test Limit**

| Frequency     | Maximum RF Line Voltage (dB $\mu$ V) |               |
|---------------|--------------------------------------|---------------|
|               | Quasi-peak Level                     | Average Level |
| 150kHz~500kHz | 66 ~ 56 *                            | 56 ~ 46 *     |
| 500kHz~5MHz   | 56                                   | 46            |
| 5MHz~30MHz    | 60                                   | 50            |

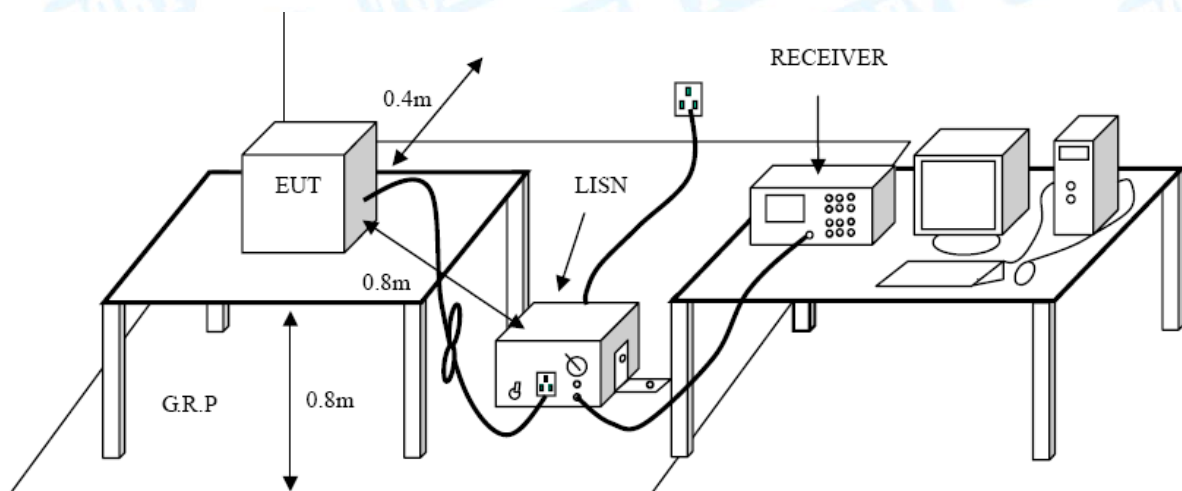
Notes:

(1) \*Decreasing linearly with logarithm of the frequency.

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

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

### 4.2 Test Setup



### 4.3 Test Procedure

The EUT was placed 0.8 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.

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.

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.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

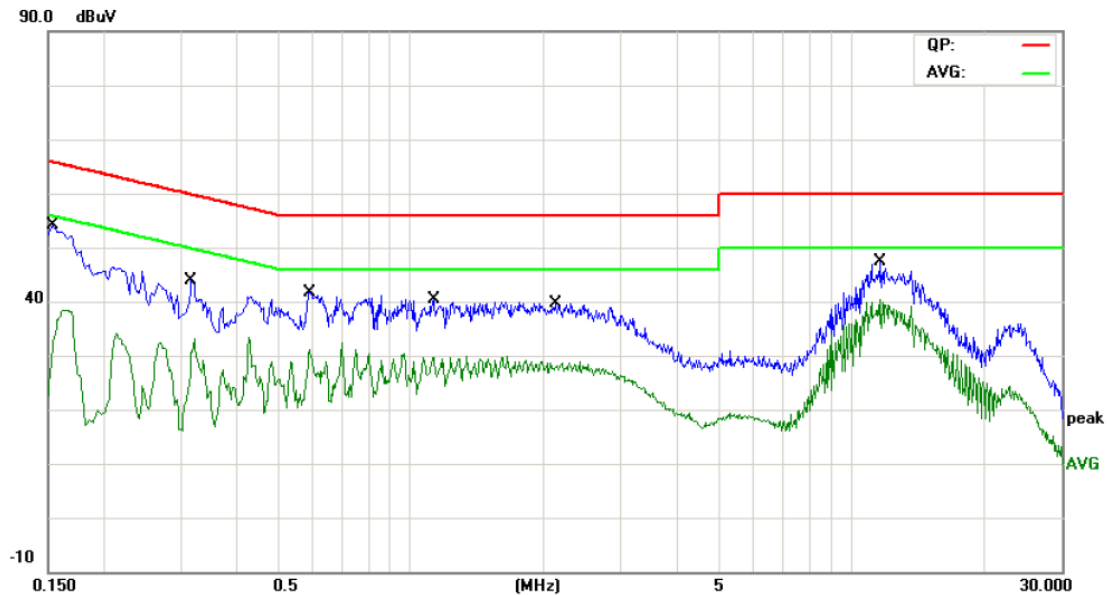
#### 4.4 EUT Operating Mode

Please refer to the description of test mode.

#### 4.5 Test Data

Test data please refer the following pages.

|               |                                      |                    |             |
|---------------|--------------------------------------|--------------------|-------------|
| EUT:          | 32"IDISPLAY                          | Model Name :       | UIT232B-B06 |
| Temperature:  | 25 °C                                | Relative Humidity: | 55%         |
| Test Voltage: | AC 120V/60Hz                         |                    |             |
| Terminal:     | Line                                 |                    |             |
| Test Mode:    | AC Charging with TX BLE Mode 2402MHz |                    |             |
| Remark:       | Only worse case is reported          |                    |             |

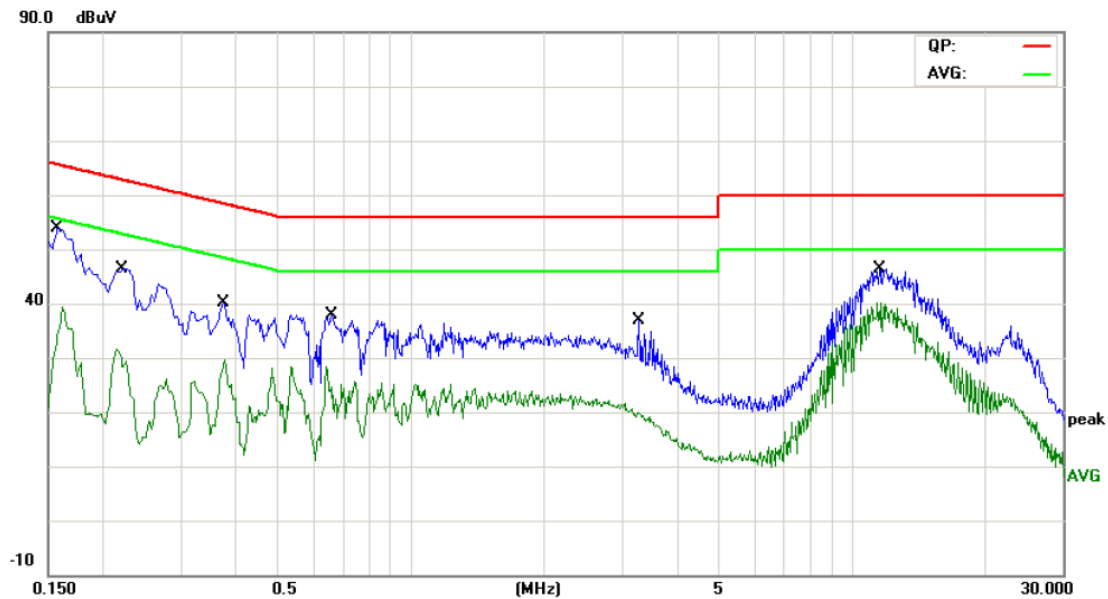


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1   |     | 0.1539       | 37.46                    | 9.93                    | 47.39                    | 65.78         | -18.39     | QP       |
| 2   |     | 0.1539       | 18.31                    | 9.93                    | 28.24                    | 55.78         | -27.54     | AVG      |
| 3   |     | 0.3180       | 29.09                    | 10.02                   | 39.11                    | 59.76         | -20.65     | QP       |
| 4   |     | 0.3180       | 19.78                    | 10.02                   | 29.80                    | 49.76         | -19.96     | AVG      |
| 5   |     | 0.5899       | 29.22                    | 10.06                   | 39.28                    | 56.00         | -16.72     | QP       |
| 6   |     | 0.5899       | 21.39                    | 10.06                   | 31.45                    | 46.00         | -14.55     | AVG      |
| 7   |     | 1.1260       | 26.14                    | 10.06                   | 36.20                    | 56.00         | -19.80     | QP       |
| 8   |     | 1.1260       | 19.31                    | 10.06                   | 29.37                    | 46.00         | -16.63     | AVG      |
| 9   |     | 2.1260       | 24.91                    | 10.06                   | 34.97                    | 56.00         | -21.03     | QP       |
| 10  |     | 2.1260       | 17.25                    | 10.06                   | 27.31                    | 46.00         | -18.69     | AVG      |
| 11  |     | 11.6459      | 33.78                    | 10.19                   | 43.97                    | 60.00         | -16.03     | QP       |
| 12  | *   | 11.6459      | 29.70                    | 10.19                   | 39.89                    | 50.00         | -10.11     | AVG      |

\*:Maximum data    x:Over limit    !:over margin

Emission Level= Read Level+ Correct Factor

|                      |                                      |                           |             |
|----------------------|--------------------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                          | <b>Model Name :</b>       | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                                | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                         |                           |             |
| <b>Terminal:</b>     | Neutral                              |                           |             |
| <b>Test Mode:</b>    | AC Charging with TX BLE Mode 2402MHz |                           |             |
| <b>Remark:</b>       | Only worse case is reported          |                           |             |

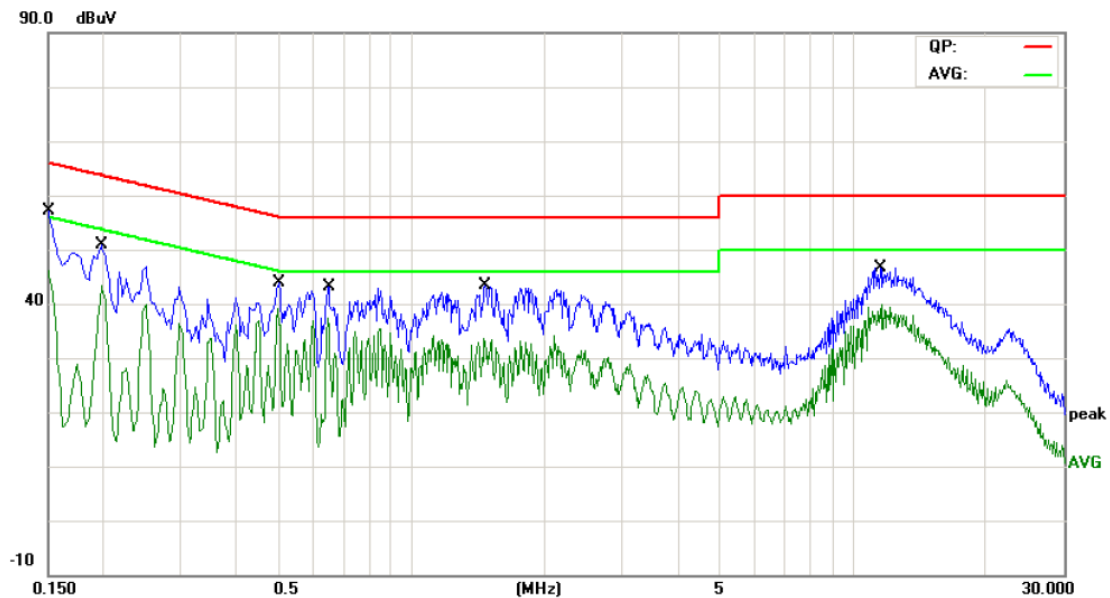


| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector |
| 1   | *   | 0.1580  | 41.41         | 10.12          | 51.53       | 65.56 | -14.03 | QP       |
| 2   |     | 0.1580  | 25.36         | 10.12          | 35.48       | 55.56 | -20.08 | AVG      |
| 3   |     | 0.2220  | 33.42         | 10.11          | 43.53       | 62.74 | -19.21 | QP       |
| 4   |     | 0.2220  | 17.41         | 10.11          | 27.52       | 52.74 | -25.22 | AVG      |
| 5   |     | 0.3740  | 26.94         | 10.06          | 37.00       | 58.41 | -21.41 | QP       |
| 6   |     | 0.3740  | 19.20         | 10.06          | 29.26       | 48.41 | -19.15 | AVG      |
| 7   |     | 0.6580  | 25.05         | 10.02          | 35.07       | 56.00 | -20.93 | QP       |
| 8   |     | 0.6580  | 12.59         | 10.02          | 22.61       | 46.00 | -23.39 | AVG      |
| 9   |     | 3.2900  | 15.85         | 10.06          | 25.91       | 56.00 | -30.09 | QP       |
| 10  |     | 3.2900  | 9.00          | 10.06          | 19.06       | 46.00 | -26.94 | AVG      |
| 11  |     | 11.5340 | 29.05         | 10.13          | 39.18       | 60.00 | -20.82 | QP       |
| 12  |     | 11.5340 | 25.22         | 10.13          | 35.35       | 50.00 | -14.65 | AVG      |

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

|                      |                                      |                           |             |
|----------------------|--------------------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                          | <b>Model Name :</b>       | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                                | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 240V/60Hz                         |                           |             |
| <b>Terminal:</b>     | Line                                 |                           |             |
| <b>Test Mode:</b>    | AC Charging with TX BLE Mode 2402MHz |                           |             |
| <b>Remark:</b>       | Only worse case is reported          |                           |             |

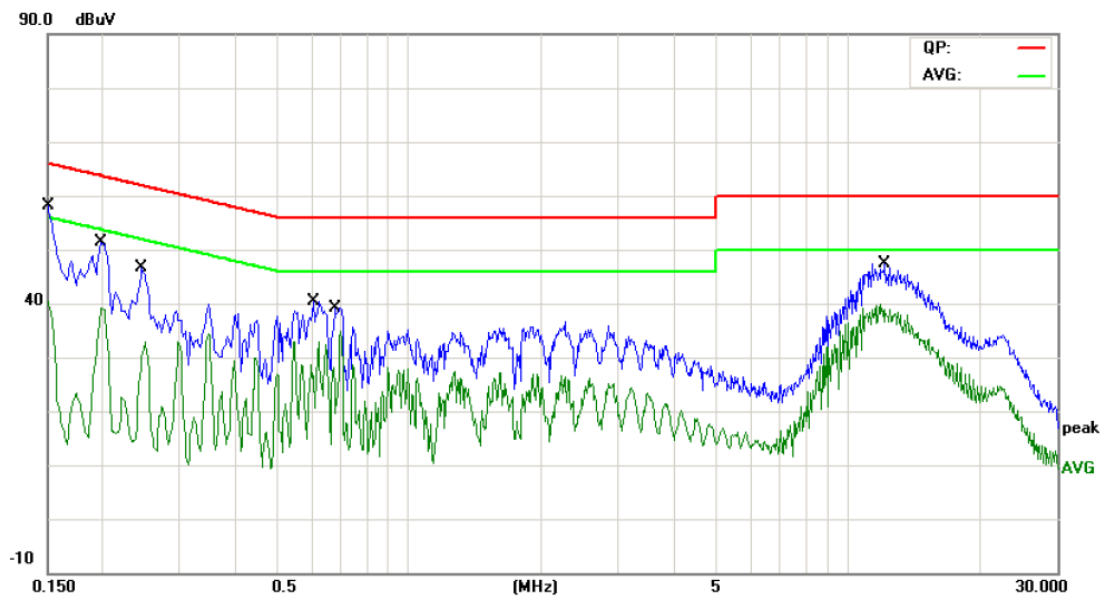


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1   |     | 0.1500       | 45.71                    | 9.92                    | 55.63                    | 65.99         | -10.36     | QP       |
| 2   |     | 0.1500       | 35.54                    | 9.92                    | 45.46                    | 55.99         | -10.53     | AVG      |
| 3   |     | 0.1980       | 39.39                    | 10.02                   | 49.41                    | 63.69         | -14.28     | QP       |
| 4   |     | 0.1980       | 32.12                    | 10.02                   | 42.14                    | 53.69         | -11.55     | AVG      |
| 5   |     | 0.5020       | 31.25                    | 10.02                   | 41.27                    | 56.00         | -14.73     | QP       |
| 6   |     | 0.5020       | 25.17                    | 10.02                   | 35.19                    | 46.00         | -10.81     | AVG      |
| 7   |     | 0.6500       | 31.02                    | 10.09                   | 41.11                    | 56.00         | -14.89     | QP       |
| 8   | *   | 0.6500       | 25.67                    | 10.09                   | 35.76                    | 46.00         | -10.24     | AVG      |
| 9   |     | 1.4700       | 30.07                    | 10.06                   | 40.13                    | 56.00         | -15.87     | QP       |
| 10  |     | 1.4700       | 23.26                    | 10.06                   | 33.32                    | 46.00         | -12.68     | AVG      |
| 11  |     | 11.5219      | 33.46                    | 10.19                   | 43.65                    | 60.00         | -16.35     | QP       |
| 12  |     | 11.5219      | 28.82                    | 10.19                   | 39.01                    | 50.00         | -10.99     | AVG      |

\*:Maximum data x:Over limit !:over margin

**Emission Level= Read Level+ Correct Factor**

|                      |                                      |                           |             |
|----------------------|--------------------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                          | <b>Model Name :</b>       | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                                | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 240V/60Hz                         |                           |             |
| <b>Terminal:</b>     | Neutral                              |                           |             |
| <b>Test Mode:</b>    | AC Charging with TX BLE Mode 2402MHz |                           |             |
| <b>Remark:</b>       | Only worse case is reported          |                           |             |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1   | *   | 0.1500       | 46.88                    | 10.12                   | 57.00                    | 65.99         | -8.99      | QP       |
| 2   |     | 0.1500       | 29.94                    | 10.12                   | 40.06                    | 55.99         | -15.93     | AVG      |
| 3   |     | 0.1980       | 39.87                    | 10.12                   | 49.99                    | 63.69         | -13.70     | QP       |
| 4   |     | 0.1980       | 27.59                    | 10.12                   | 37.71                    | 53.69         | -15.98     | AVG      |
| 5   |     | 0.2460       | 32.97                    | 10.10                   | 43.07                    | 61.89         | -18.82     | QP       |
| 6   |     | 0.2460       | 20.61                    | 10.10                   | 30.71                    | 51.89         | -21.18     | AVG      |
| 7   |     | 0.6060       | 22.54                    | 10.02                   | 32.56                    | 56.00         | -23.44     | QP       |
| 8   |     | 0.6060       | 10.63                    | 10.02                   | 20.65                    | 46.00         | -25.35     | AVG      |
| 9   |     | 0.6780       | 23.53                    | 10.02                   | 33.55                    | 56.00         | -22.45     | QP       |
| 10  |     | 0.6780       | 13.10                    | 10.02                   | 23.12                    | 46.00         | -22.88     | AVG      |
| 11  |     | 12.1860      | 33.71                    | 10.12                   | 43.83                    | 60.00         | -16.17     | QP       |
| 12  |     | 12.1860      | 28.60                    | 10.12                   | 38.72                    | 50.00         | -11.28     | AVG      |

\*:Maximum data x:Over limit !:over margin

**Emission Level= Read Level+ Correct Factor**

## 5. Radiated Emission Test

### 5.1 Test Standard and Limit

#### 5.1.1 Test Standard

FCC Part 15.209

#### 5.1.2 Test Limit

**Radiated Emission Limits (9kHz~1000MHz)**

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

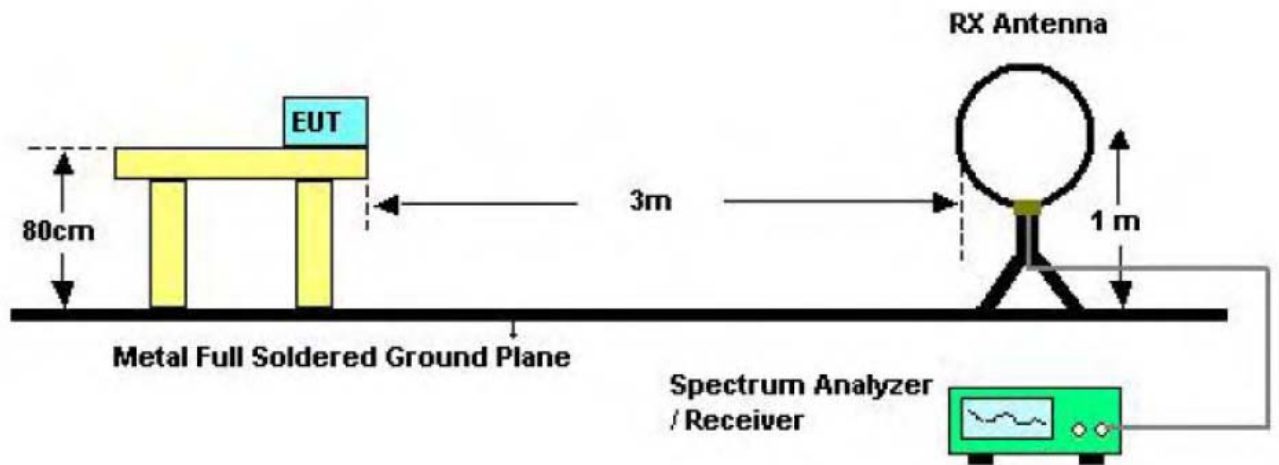
**Radiated Emission Limit (Above 1000MHz)**

| Frequency (MHz) | Class A (dBuV/m)(at 3 M) |         | Class B (dBuV/m)(at 3 M) |         |
|-----------------|--------------------------|---------|--------------------------|---------|
|                 | Peak                     | Average | Peak                     | Average |
| Above 1000      | 80                       | 60      | 74                       | 54      |

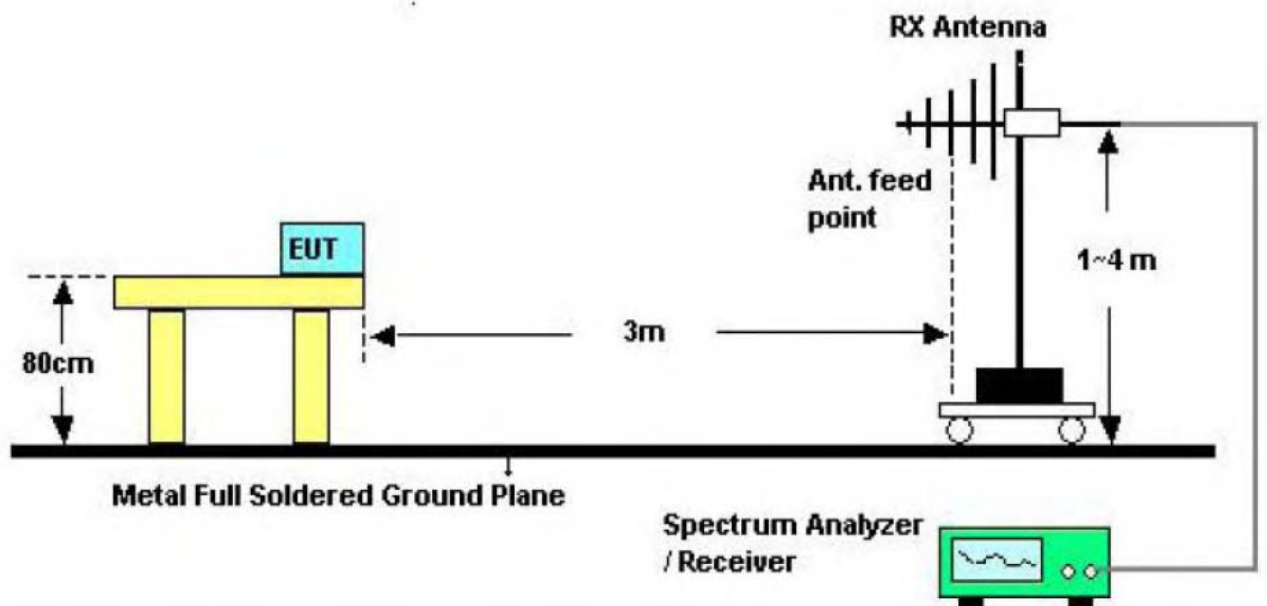
**Note:**

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

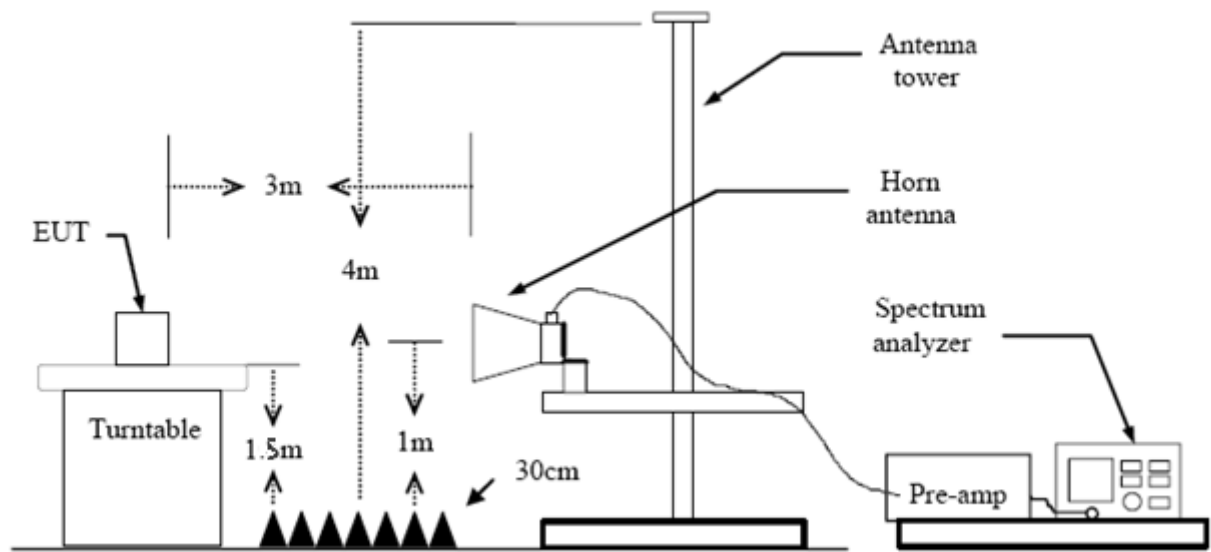
## 5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

### 5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) 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.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

## 5.4 EUT Operating Condition

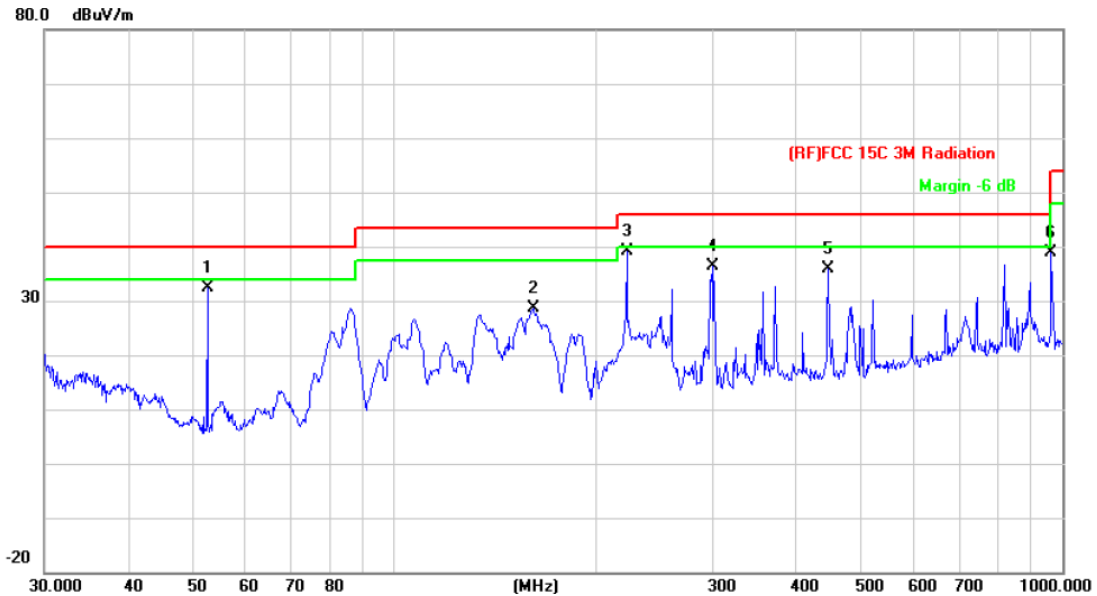
The Equipment Under Test was set to Continual Transmitting in maximum power.

## 5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=1 kHz with Peak Detector for Average Values.

Test data please refer the following pages.

|                      |                             |                           |             |
|----------------------|-----------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                 | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                       | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                |                           |             |
| <b>Ant. Pol.</b>     | Horizontal                  |                           |             |
| <b>Test Mode:</b>    | BLE TX 2402 Mode            |                           |             |
| <b>Remark:</b>       | Only worse case is reported |                           |             |

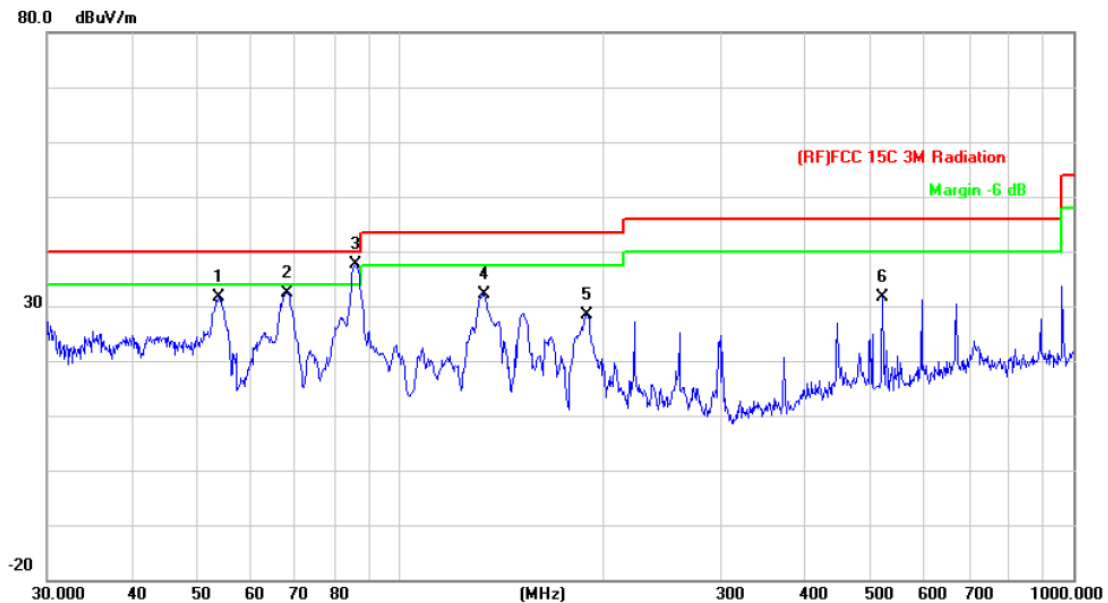


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 52.5753      | 56.79                    | -24.43                    | 32.36                      | 40.00           | -7.64      | peak     |
| 2   |     | 161.4742     | 49.21                    | -20.61                    | 28.60                      | 43.50           | -14.90     | peak     |
| 3   | *   | 222.9502     | 58.64                    | -19.40                    | 39.24                      | 46.00           | -6.76      | peak     |
| 4   |     | 299.3158     | 53.40                    | -17.10                    | 36.30                      | 46.00           | -9.70      | peak     |
| 5   |     | 446.4141     | 48.45                    | -12.53                    | 35.92                      | 46.00           | -10.08     | peak     |
| 6   |     | 962.1623     | 43.73                    | -4.84                     | 38.89                      | 54.00           | -15.11     | peak     |

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

|                      |                             |                           |             |
|----------------------|-----------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                 | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                       | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                |                           |             |
| <b>Ant. Pol.</b>     | Vertical                    |                           |             |
| <b>Test Mode:</b>    | BLE TX 2402 Mode            |                           |             |
| <b>Remark:</b>       | Only worse case is reported |                           |             |

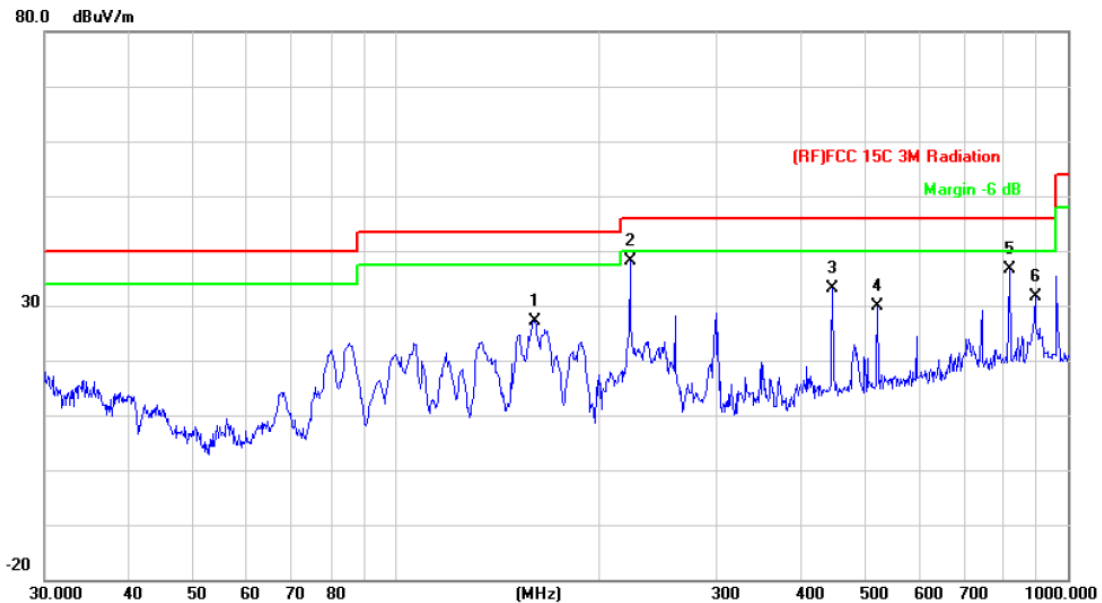


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 53.8817  | 56.07         | -24.45         | 31.62       | 40.00  | -8.38  | peak     |
| 2   |     | 68.1512  | 56.27         | -23.78         | 32.49       | 40.00  | -7.51  | peak     |
| 3   | *   | 85.8983  | 60.65         | -22.94         | 37.71       | 40.00  | -2.29  | peak     |
| 4   |     | 133.6187 | 54.27         | -22.10         | 32.17       | 43.50  | -11.33 | peak     |
| 5   |     | 189.7384 | 49.28         | -20.90         | 28.38       | 43.50  | -15.12 | peak     |
| 6   |     | 520.8881 | 41.97         | -10.40         | 31.57       | 46.00  | -14.43 | peak     |

\*:Maximum data x:Over limit !:over margin

**Emission Level= Read Level+ Correct Factor**

|                      |                             |                           |             |
|----------------------|-----------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                 | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                       | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                |                           |             |
| <b>Ant. Pol.</b>     | Horizontal                  |                           |             |
| <b>Test Mode:</b>    | BLE TX 2442 Mode            |                           |             |
| <b>Remark:</b>       | Only worse case is reported |                           |             |

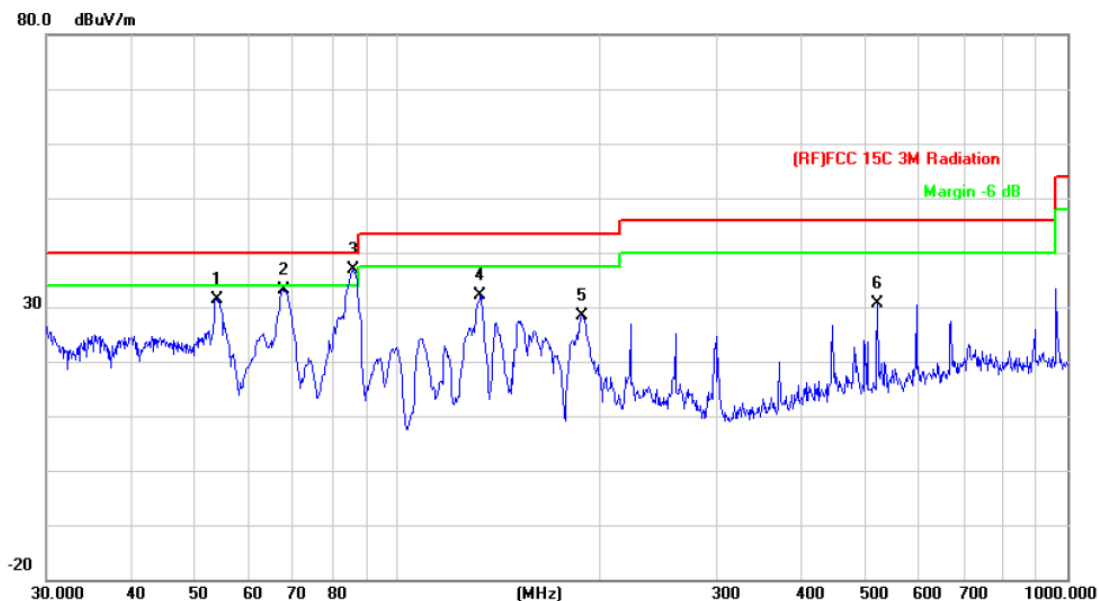


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 160.9089     | 47.67                    | -20.57                    | 27.10                      | 43.50           | -16.40     | peak     |
| 2   | *   | 222.9502     | 57.57                    | -19.40                    | 38.17                      | 46.00           | -7.83      | peak     |
| 3   |     | 446.4141     | 45.57                    | -12.53                    | 33.04                      | 46.00           | -12.96     | peak     |
| 4   |     | 520.8882     | 40.24                    | -10.40                    | 29.84                      | 46.00           | -16.16     | peak     |
| 5   |     | 818.8341     | 42.86                    | -6.34                     | 36.52                      | 46.00           | -9.48      | peak     |
| 6   |     | 893.8567     | 36.93                    | -5.30                     | 31.63                      | 46.00           | -14.37     | peak     |

\*:Maximum data x:Over limit !:over margin

**Emission Level= Read Level+ Correct Factor**

|                      |                             |                           |             |
|----------------------|-----------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                 | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                       | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                |                           |             |
| <b>Ant. Pol.</b>     | Vertical                    |                           |             |
| <b>Test Mode:</b>    | BLE TX 2442 Mode            |                           |             |
| <b>Remark:</b>       | Only worse case is reported |                           |             |

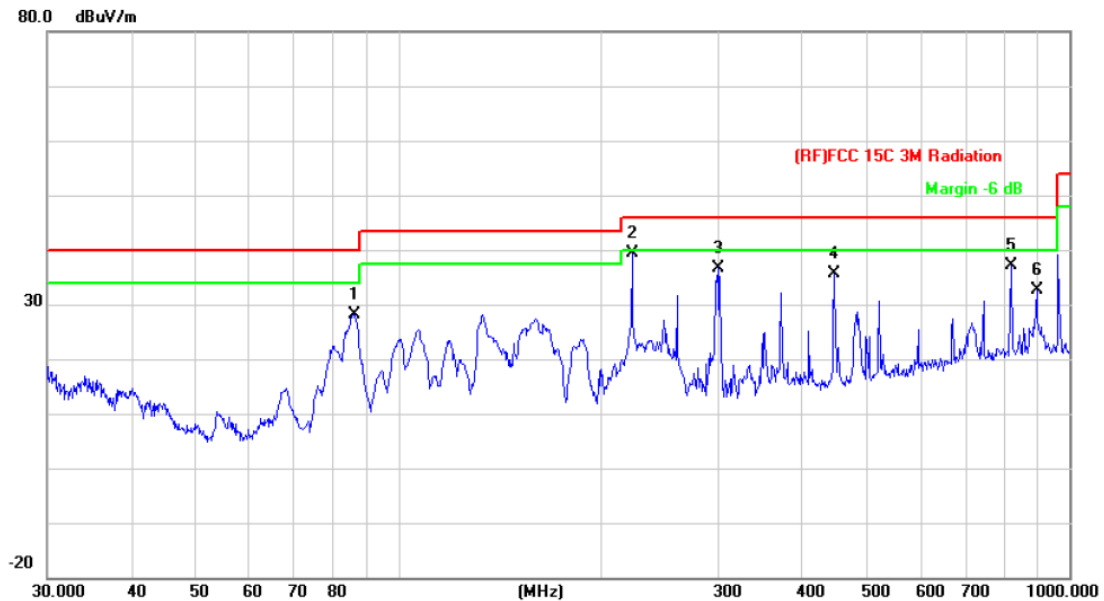


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m       | dBuV/m | dB     | Detector |
| 1   |     | 53.8817  | 55.94         | -24.45         | 31.49        | 40.00  | -8.51  | peak     |
| 2   |     | 67.9128  | 57.00         | -23.80         | 33.20        | 40.00  | -6.80  | peak     |
| 3   | *   | 85.8983  | 59.84         | -22.94         | 36.90        | 40.00  | -3.10  | peak     |
| 4   |     | 133.1511 | 54.20         | -22.12         | 32.08        | 43.50  | -11.42 | peak     |
| 5   |     | 189.0741 | 49.18         | -20.88         | 28.30        | 43.50  | -15.20 | peak     |
| 6   |     | 520.8881 | 41.11         | -10.40         | 30.71        | 46.00  | -15.29 | peak     |

\*:Maximum data x:Over limit !:over margin

**Emission Level= Read Level+ Correct Factor**

|                      |                             |                           |             |
|----------------------|-----------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                 | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                       | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                |                           |             |
| <b>Ant. Pol.</b>     | Horizontal                  |                           |             |
| <b>Test Mode:</b>    | BLE TX 2480 Mode            |                           |             |
| <b>Remark:</b>       | Only worse case is reported |                           |             |

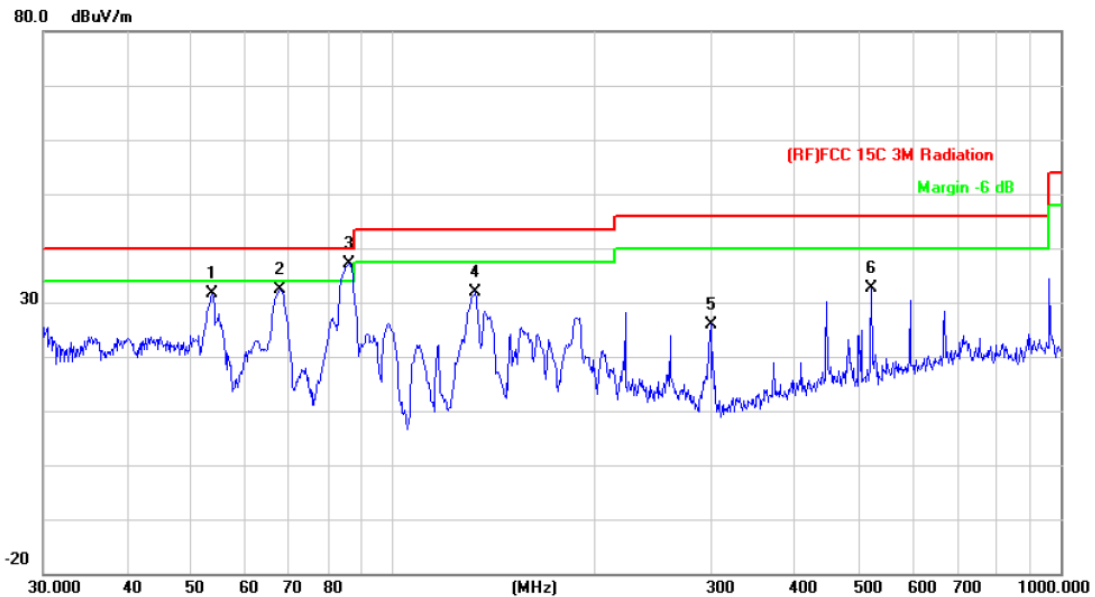


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 85.8984      | 51.15                    | -22.94                    | 28.21                      | 40.00           | -11.79     | peak     |
| 2   | *   | 222.9502     | 58.78                    | -19.40                    | 39.38                      | 46.00           | -6.62      | peak     |
| 3   |     | 299.3158     | 53.74                    | -17.10                    | 36.64                      | 46.00           | -9.36      | peak     |
| 4   |     | 446.4141     | 48.20                    | -12.53                    | 35.67                      | 46.00           | -10.33     | peak     |
| 5   |     | 818.8341     | 43.58                    | -6.34                     | 37.24                      | 46.00           | -8.76      | peak     |
| 6   |     | 893.8567     | 37.82                    | -5.30                     | 32.52                      | 46.00           | -13.48     | peak     |

\*:Maximum data    x:Over limit    !:over margin

**Emission Level= Read Level+ Correct Factor**

|                      |                             |                           |             |
|----------------------|-----------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                 | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                       | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                |                           |             |
| <b>Ant. Pol.</b>     | Vertical                    |                           |             |
| <b>Test Mode:</b>    | BLE TX 2480 Mode            |                           |             |
| <b>Remark:</b>       | Only worse case is reported |                           |             |

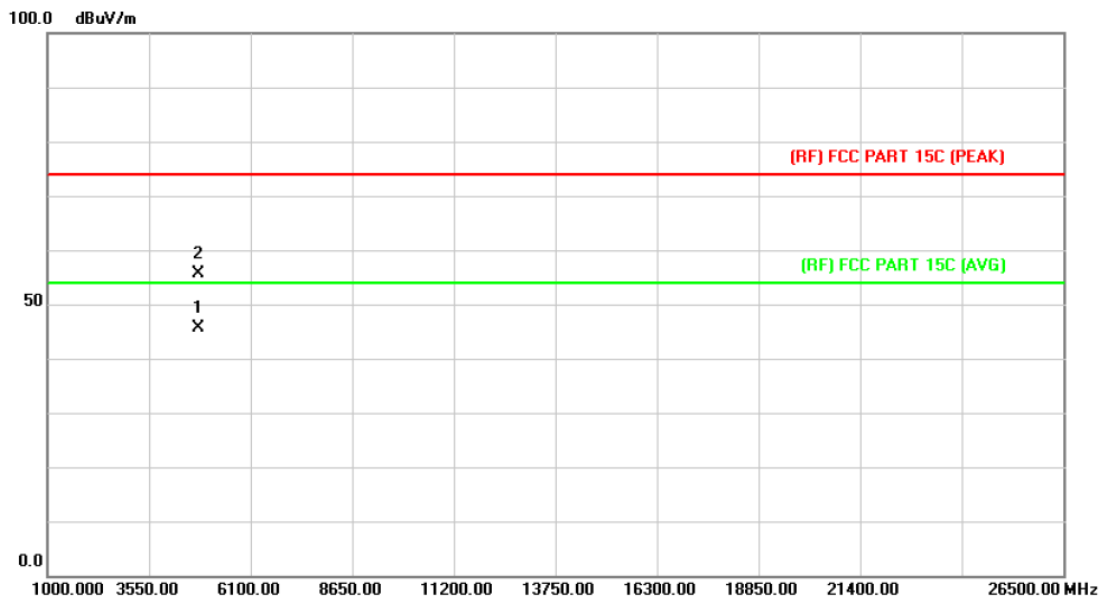


| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 53.6931  | 55.95         | -24.44         | 31.51       | 40.00  | -8.49  | peak     |
| 2   |     | 67.9128  | 56.28         | -23.80         | 32.48       | 40.00  | -7.52  | peak     |
| 3   | *   | 86.2001  | 60.09         | -22.92         | 37.17       | 40.00  | -2.83  | peak     |
| 4   |     | 133.1511 | 54.12         | -22.12         | 32.00       | 43.50  | -11.50 | peak     |
| 5   |     | 299.3158 | 43.10         | -17.10         | 26.00       | 46.00  | -20.00 | peak     |
| 6   |     | 520.8881 | 42.91         | -10.40         | 32.51       | 46.00  | -13.49 | peak     |

\*:Maximum data    x:Over limit    !:over margin

Emission Level= Read Level+ Correct Factor

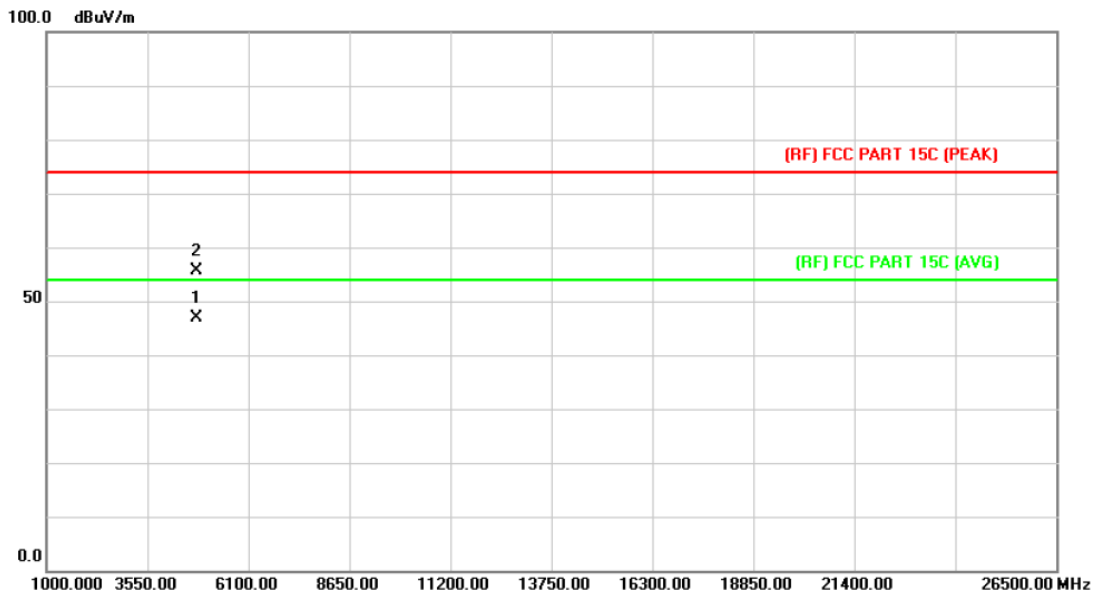
|                      |                                                                              |                           |             |
|----------------------|------------------------------------------------------------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                                                                  | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                                                                        | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                                                                 |                           |             |
| <b>Ant. Pol.</b>     | Horizontal                                                                   |                           |             |
| <b>Test Mode:</b>    | BLE Mode TX 2402 MHz                                                         |                           |             |
| <b>Remark:</b>       | No report for the emission which more than 10 dB below the prescribed limit. |                           |             |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   | *   | 4803.698 | 32.25         | 13.44          | 45.69       | 54.00  | -8.31  | AVG      |
| 2   |     | 4804.614 | 42.21         | 13.44          | 55.65       | 74.00  | -18.35 | peak     |

Emission Level= Read Level+ Correct Factor

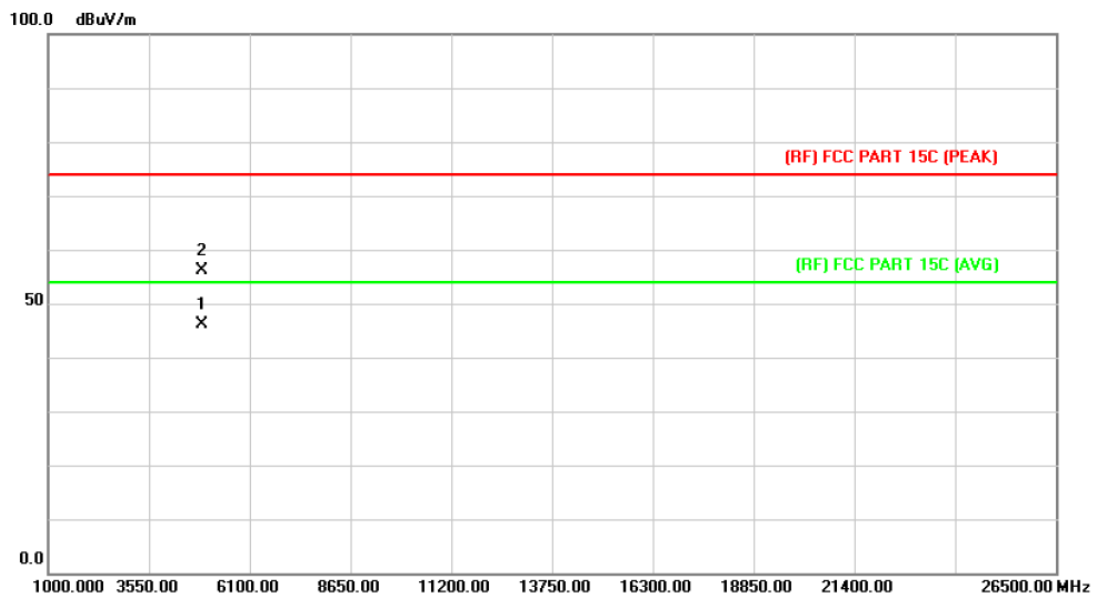
|                      |                                                                              |                           |             |
|----------------------|------------------------------------------------------------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                                                                  | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                                                                        | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                                                                 |                           |             |
| <b>Ant. Pol.</b>     | Vertical                                                                     |                           |             |
| <b>Test Mode:</b>    | BLE Mode TX 2402 MHz                                                         |                           |             |
| <b>Remark:</b>       | No report for the emission which more than 10 dB below the prescribed limit. |                           |             |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   | *   | 4803.841 | 33.42         | 13.44          | 46.86       | 54.00  | -7.14  | AVG      |
| 2   |     | 4804.236 | 42.24         | 13.44          | 55.68       | 74.00  | -18.32 | peak     |

Emission Level= Read Level+ Correct Factor

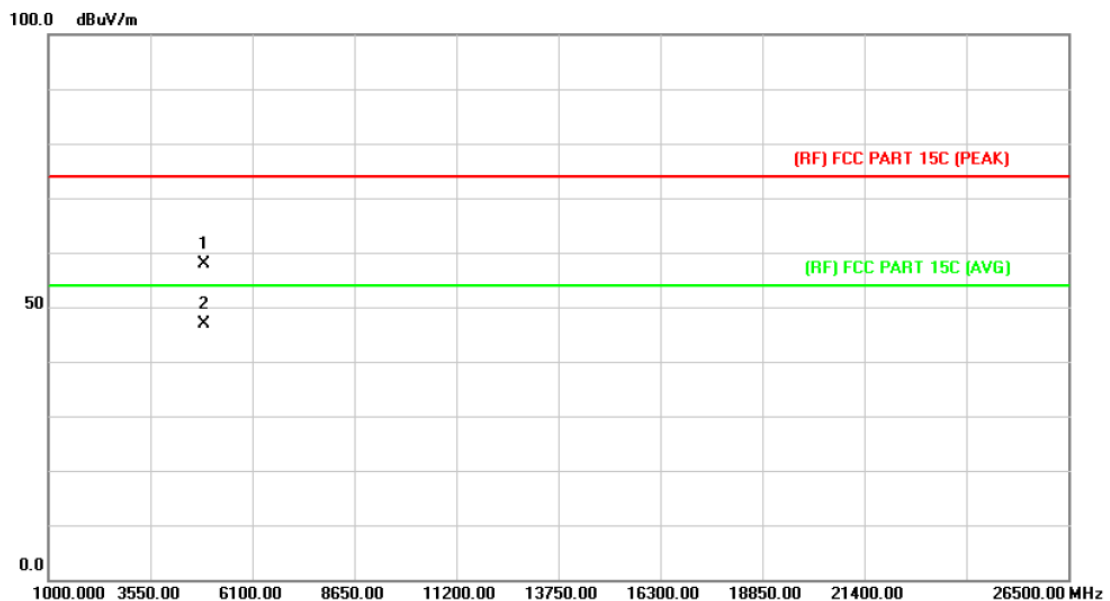
|                      |                                                                              |                           |             |
|----------------------|------------------------------------------------------------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                                                                  | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                                                                        | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                                                                 |                           |             |
| <b>Ant. Pol.</b>     | Horizontal                                                                   |                           |             |
| <b>Test Mode:</b>    | BLE Mode TX 2442 MHz                                                         |                           |             |
| <b>Remark:</b>       | No report for the emission which more than 10 dB below the prescribed limit. |                           |             |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   | *   | 4884.261 | 32.29         | 13.92          | 46.21       | 54.00  | -7.79  | AVG      |
| 2   |     | 4884.351 | 42.32         | 13.92          | 56.24       | 74.00  | -17.76 | peak     |

Emission Level= Read Level+ Correct Factor

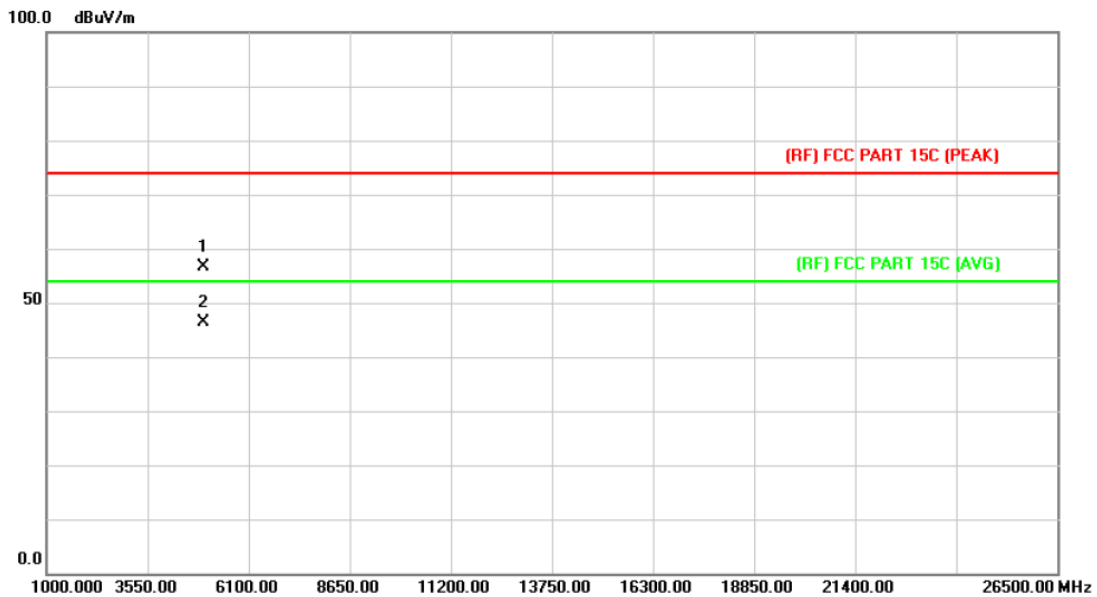
|                      |                                                                              |                           |             |
|----------------------|------------------------------------------------------------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                                                                  | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                                                                        | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                                                                 |                           |             |
| <b>Ant. Pol.</b>     | Vertical                                                                     |                           |             |
| <b>Test Mode:</b>    | BLE Mode TX 2442 MHz                                                         |                           |             |
| <b>Remark:</b>       | No report for the emission which more than 10 dB below the prescribed limit. |                           |             |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 4883.954     | 44.06                    | 13.92                     | 57.98                      | 74.00           | -16.02     | peak     |
| 2   | *   | 4884.254     | 32.97                    | 13.92                     | 46.89                      | 54.00           | -7.11      | AVG      |

Emission Level= Read Level+ Correct Factor

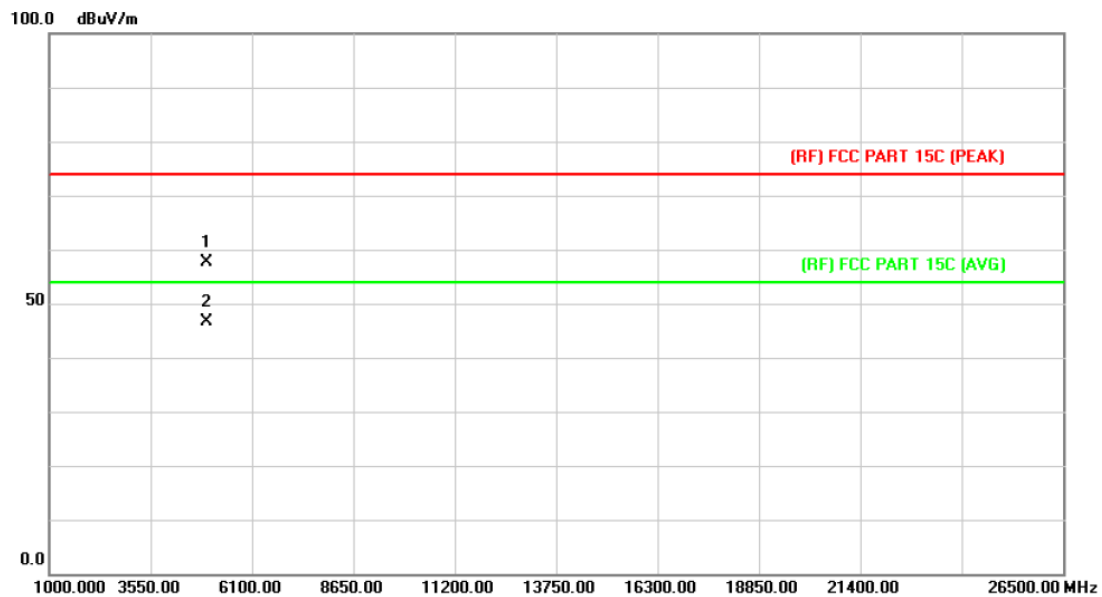
|                      |                                                                              |                           |             |
|----------------------|------------------------------------------------------------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                                                                  | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                                                                        | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                                                                 |                           |             |
| <b>Ant. Pol.</b>     | Horizontal                                                                   |                           |             |
| <b>Test Mode:</b>    | BLE Mode TX 2480 MHz                                                         |                           |             |
| <b>Remark:</b>       | No report for the emission which more than 10 dB below the prescribed limit. |                           |             |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4959.321 | 42.32         | 14.36          | 56.68       | 74.00  | -17.32 | peak     |
| 2   | *   | 4959.612 | 31.99         | 14.36          | 46.35       | 54.00  | -7.65  | AVG      |

Emission Level= Read Level+ Correct Factor

|                      |                                                                              |                           |             |
|----------------------|------------------------------------------------------------------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY                                                                  | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                                                                        | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz                                                                 |                           |             |
| <b>Ant. Pol.</b>     | Vertical                                                                     |                           |             |
| <b>Test Mode:</b>    | BLE Mode TX 2480 MHz                                                         |                           |             |
| <b>Remark:</b>       | No report for the emission which more than 10 dB below the prescribed limit. |                           |             |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 4959.562 | 43.32         | 14.36          | 57.68       | 74.00  | -16.32 | peak     |
| 2   | *   | 4959.657 | 32.32         | 14.36          | 46.68       | 54.00  | -7.32  | AVG      |

Emission Level= Read Level+ Correct Factor



and then Quasi Peak detector mode re-measured.

- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 KHz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

#### 6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

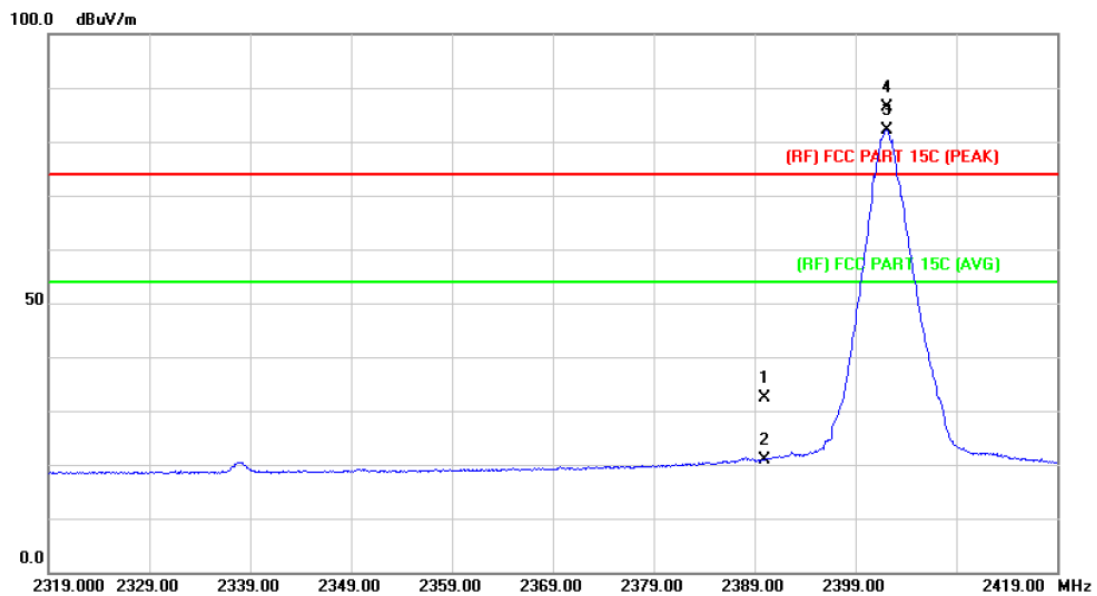
#### 6.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=1kHz with Peak Detector for Average Values.

Test data please refer the following pages.

**(1) Radiation Test**

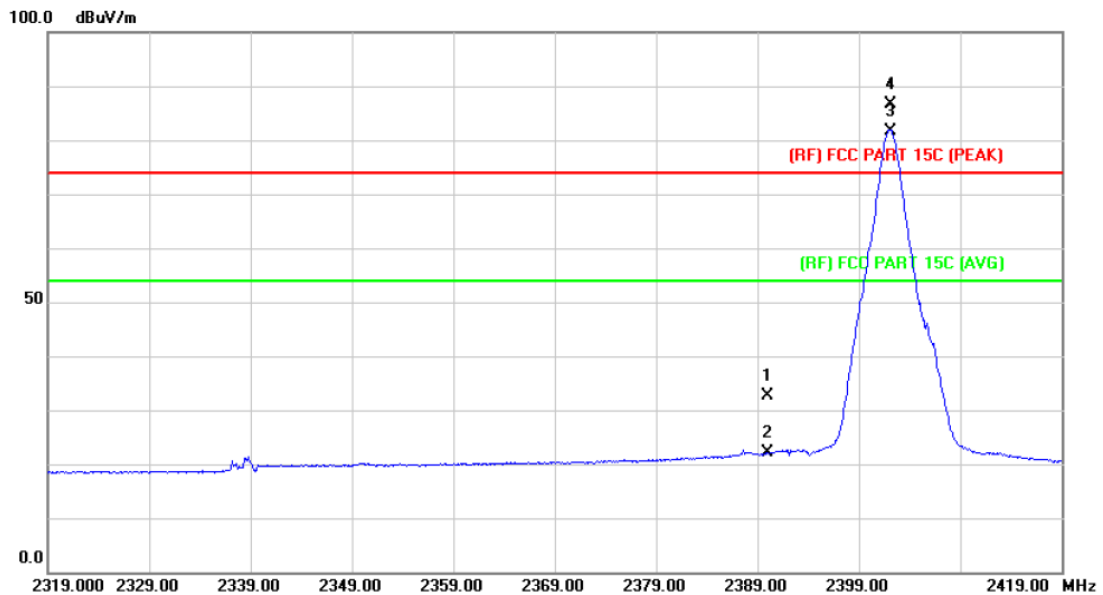
|                      |                      |                           |             |
|----------------------|----------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY          | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz         |                           |             |
| <b>Ant. Pol.</b>     | Horizontal           |                           |             |
| <b>Test Mode:</b>    | BLE Mode TX 2402 MHz |                           |             |
| <b>Remark:</b>       | N/A                  |                           |             |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit                      | Over        |
|-----|-----|----------|---------------|----------------|-------------|----------------------------|-------------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m                     | dB Detector |
| 1   |     | 2390.000 | 31.59         | 0.77           | 32.36       | 74.00                      | -41.64 peak |
| 2   |     | 2390.000 | 20.04         | 0.77           | 20.81       | 54.00                      | -33.19 AVG  |
| 3   | *   | 2402.100 | 81.29         | 0.82           | 82.11       | Fundamental Frequency AVG  |             |
| 4   | X   | 2402.200 | 85.55         | 0.82           | 86.37       | Fundamental Frequency peak |             |

Emission Level= Read Level+ Correct Factor

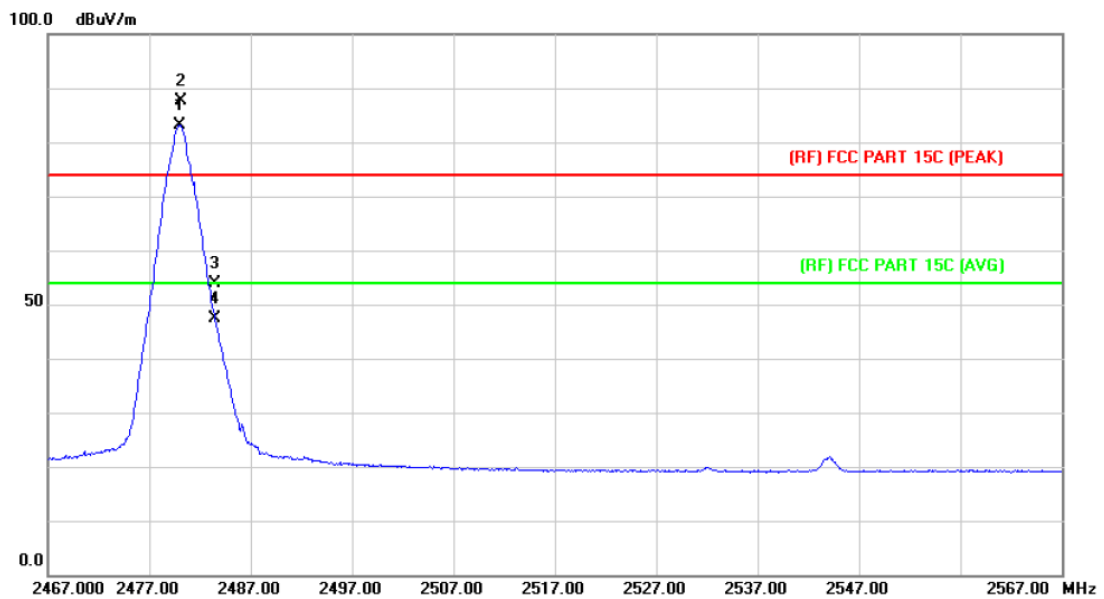
|                      |                      |                           |             |
|----------------------|----------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY          | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz         |                           |             |
| <b>Ant. Pol.</b>     | Vertical             |                           |             |
| <b>Test Mode:</b>    | BLE Mode TX 2402 MHz |                           |             |
| <b>Remark:</b>       | N/A                  |                           |             |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   |     | 2390.000     | 31.91                    | 0.77                      | 32.68                      | 74.00                 | -41.32     | peak     |
| 2   |     | 2390.000     | 21.33                    | 0.77                      | 22.10                      | 54.00                 | -31.90     | AVG      |
| 3   | *   | 2402.100     | 80.80                    | 0.82                      | 81.62                      | Fundamental Frequency |            | AVG      |
| 4   | X   | 2402.200     | 85.85                    | 0.82                      | 86.67                      | Fundamental Frequency |            | peak     |

Emission Level= Read Level+ Correct Factor

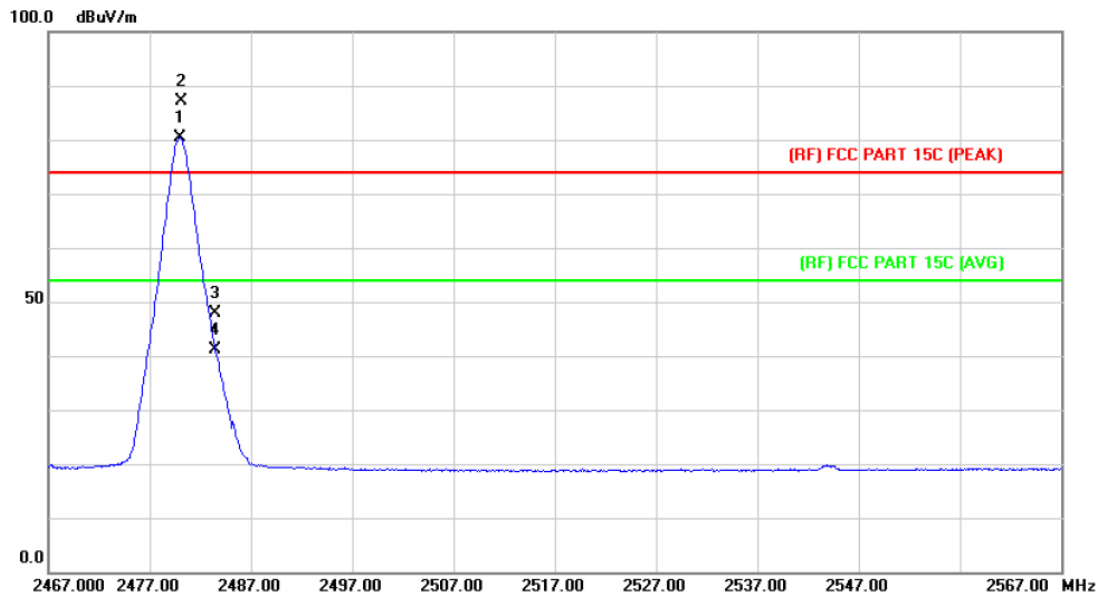
|                      |                      |                           |             |
|----------------------|----------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY          | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz         |                           |             |
| <b>Ant. Pol.</b>     | Horizontal           |                           |             |
| <b>Test Mode:</b>    | BLE Mode TX 2480 MHz |                           |             |
| <b>Remark:</b>       | N/A                  |                           |             |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit                 | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-----------------------|--------|----------|
|     |     | MHz      | dBuV          | dB/m           | dBuV/m      | dBuV/m                | dB     | Detector |
| 1   | *   | 2480.000 | 82.02         | 1.15           | 83.17       | Fundamental Frequency |        | AVG      |
| 2   | X   | 2480.100 | 86.53         | 1.15           | 87.68       | Fundamental Frequency |        | peak     |
| 3   |     | 2483.500 | 52.81         | 1.17           | 53.98       | 74.00                 | -20.02 | peak     |
| 4   |     | 2483.500 | 46.21         | 1.17           | 47.38       | 54.00                 | -6.62  | AVG      |

Emission Level= Read Level+ Correct Factor

|                      |                      |                           |             |
|----------------------|----------------------|---------------------------|-------------|
| <b>EUT:</b>          | 32"IDISPLAY          | <b>Model:</b>             | UIT232B-B06 |
| <b>Temperature:</b>  | 25 °C                | <b>Relative Humidity:</b> | 55%         |
| <b>Test Voltage:</b> | AC 120V/60Hz         |                           |             |
| <b>Ant. Pol.</b>     | Vertical             |                           |             |
| <b>Test Mode:</b>    | BLE Mode TX 2480 MHz |                           |             |
| <b>Remark:</b>       | N/A                  |                           |             |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB/m | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m       | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1   | *   | 2480.000     | 79.25                    | 1.15                      | 80.40                      | Fundamental Frequency |            | AVG      |
| 2   | X   | 2480.100     | 86.06                    | 1.15                      | 87.21                      | Fundamental Frequency |            | peak     |
| 3   |     | 2483.500     | 46.69                    | 1.17                      | 47.86                      | 74.00                 | -26.14     | peak     |
| 4   |     | 2483.500     | 39.88                    | 1.17                      | 41.05                      | 54.00                 | -12.95     | AVG      |

Emission Level= Read Level+ Correct Factor

## 7. Antenna Requirement

### 7.1 Standard Requirement

#### 7.1.1 Standard

FCC Part 15.203

#### 7.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 7.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 2.12 dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

### 7.3 Result

The EUT antenna is an Embedded Antenna. It complies with the standard requirement.

| Antenna Type                                                   |
|----------------------------------------------------------------|
| <input checked="" type="checkbox"/> Permanent attached antenna |
| <input type="checkbox"/> Unique connector antenna              |
| <input type="checkbox"/> Professional installation antenna     |