

# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC146766

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# 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

Approved&

Authorized

fug to TOBY S

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.

TB-RF-074-1.0



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# 1. General Information about EUT

## 1.1 Client Information

Applicant : Outform Ltd

Address : R405, East, Buliding 203, Tai Ran Industrial Zone, Chengongmiao,

Futian, Shenzhen, China

Manufacturer : Outform Ltd

Address: R405, East, Buliding 203, Tai Ran Industrial Zone, Chengongmiao,

Futian, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

| EUT Name               | • | 32"IDISPLAY  | COLUMN TO THE PARTY OF THE PART |  |  |  |  |
|------------------------|---|--|--|--|--|--|--|
| Models No.             | ? | UIT232B-B06, UIT232X-XYY, UIT213X-XYY, UIT310X-XYY, UIT306X-XYY, UIT332X-XYY, UIT432X-XYY (The 1st X is "A" or "B" |  |  |  |  |  |
|                        | 1 | represents the software version; The 2nd X is A-Z represents the color; YY is client number from "01" to "50".)    |  |  |  |  |  |
| Model<br>Difference    | ÷ | They are identical in circuitry design, PCB layout, electrical   |  |  |  |  |  |
| Difference             |   | components used, internal wiring and functions, only different on color.   |  |  |  |  |  |
| Product<br>Description |   | Operation Frequency:<br>BLE: 2402MHz~2480MH<br>WIFI 802.11b/g/n(H20):<br>802.11n(H40): 242                         | 2412MHz~2462MHz  |  |  |  |  |
|                        | a | 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)  |  |  |  |  |
| Power Supply           |   | DC power supplied by S   | switching Adapter.   |  |  |  |  |
| Power Rating           | : | Switching Adapter:<br>Input:100~240V, 50/60Hz 1.5A Max<br>Output:12V, 5000mA                                       |  |  |  |  |  |
| Connecting I/O Port(S) | Ė | 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.



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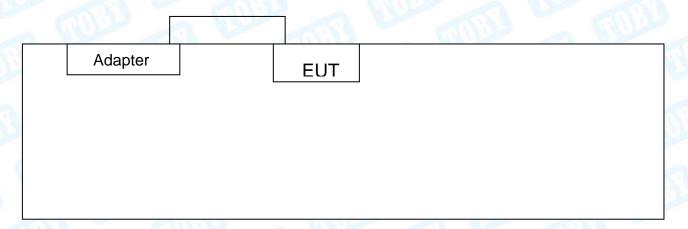
(3) Antenna information provided by the applicant.

(4) Channel List:

| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(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.



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# 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           |
|---|----------------|--------------------------|
| F | inal Test Mode | Description              |
| N | Node 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.



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# 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 <sub>Lab</sub> ) |
|--------------------|-------------------|--|
|                    | Level Accuracy:   |  |
| Conducted Emission | 9kHz~150kHz       | ±3.42 dB                                 |
|                    | 150kHz to 30MHz   | ±3.42 dB                                 |
| Dadiated Emission  | Level Accuracy:   | . 4 CO dD                                |
| Radiated Emission  | 9kHz to 30 MHz    | ±4.60 dB                                 |
| Radiated Emission  | Level Accuracy:   | ±4.40 dB                                 |
| Radiated Emission  | 30MHz to 1000 MHz | ±4.40 db                                 |
| Radiated Emission  | Level Accuracy:   | ±4.20 dB                                 |
| Radiated Emission  | Above 1000MHz     | ±4.20 dB                                 |



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# 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.



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# 2. Test Summary

|              | FCC Par            | t 15 Subpart C(15.247)/RSS 247         | Issue 1     |                |
|--------------|--------------------|--|-------------|----------------|
| Standa       | rd Section         | Tool How                               | No days and | Remark         |
| FCC          | IC                 | Test Item                              | Judgment    | Remark         |
| 15.203       | 1                  | 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            |

Note (1): "/" for no requirement for this test item.

<sup>(2):</sup> N/A is an abbreviation for Not Applicable.

<sup>(3):</sup> 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.



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# 3. Test Equipment

| Conducte                  | d Emission Te                    | est         |            |               |                  |
|---------------------------|----------------------------------|-------------|------------|---------------|------------------|
| Equipment                 | Manufacturer                     | Model No.   | Serial No. | Last Cal.     | Cal. Due<br>Date |
| EMI Test<br>Receiver      | Rohde & Schwarz                  | ESCI        | 100321     | Aug. 07, 2015 | Aug. 06, 2016    |
| RF Switching<br>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    |
| Equipment                 | Manufacturer                     | Model No.   | Serial No. | Last Cal.     | Date             |
| Radiation                 | Emission Tes                     | ) L         |            |               | Cal. Due         |
| Spectrum<br>Analyzer      | Agilent                          | E4407B      | MY45106456 | Aug. 29, 2015 | Aug. 28, 2016    |
| EMI Test<br>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<br>Controller | ETS-LINDGREN                     | 2090        | N/A        | N/A           | N/A              |



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# 4. Conducted Emission Test

## 4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.207

#### 4.1.2 Test Limit

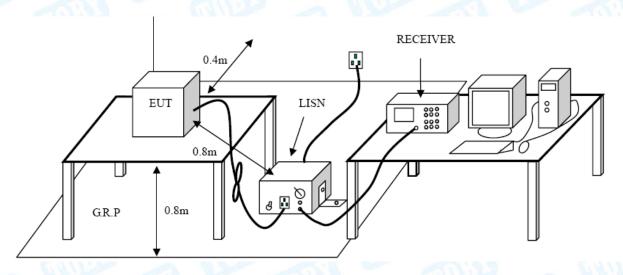
#### **Conducted Emission Test Limit**

| Ereguenev     | Maximum RF Lin   | e Voltage (dBμV) |
|---------------|------------------|------------------|
| Frequency     | 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.



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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.





| UT:   | 32"IDISPLAY  |   | Model Nam  | e:   | UIT2   | 32B-B06  |
|---|--|---|--|--|--|--|
| emperature:   | 25 ℃   | 30  | Relative Hu  | midity:  | 55%  | All  |
| est Voltage:  | AC 120V/60Hz   |   | 18   | (FI  | 11,373   |  |
| erminal:  | Line   | A MAG   |  |  |  | 1000   |
| est Mode:   | AC Charging wit  | th TX BLE I   | Mode 2402M   | Hz   | 0  | A LANGE  |
| Remark:   | Only worse case  | e is reporte  | d  |  | 33   |  |
| 90.0 dBuV   |  |   |  |  |  |  |
| 40  | MANAMAN AND AND AND AND AND AND AND AND AND A  | proposporos Seria   | Mark Market Mark | Secretary of the Secret | AVG  |  |
|   |  |   |  |  |  |  |
| 0.150   | 0.5<br>Reading   | (MHz)   | 5<br>Measure-  |  |  | 30.000   |
| 0.150<br>No. Mk. F  | Reading<br>req. Level  | Correct<br>Factor   | Measure-<br>ment   | Limit  | Over   | 30.000   |
| 0.150<br>No. Mk. F  | Reading req. Level   | Correct<br>Factor   | Measure-<br>ment   | dBuV   | dB   | 30.000   |
| 0.150  No. Mk. F  No. 1 0.1   | Reading<br>Level<br>1Hz dBuV<br>539 37.46  | Correct<br>Factor<br>dB<br>9.93                                   | Measure-<br>ment<br>dBuV<br>47.39  | dBu∨<br><b>65.78</b> -   | dB<br>- <b>18.39</b>   | 30.000  Detector  QP   |
| 0.150  No. Mk. F  1 0.1 2 0.1   | Reading Level  1Hz dBuV  539 37.46  539 18.31  | Correct<br>Factor<br>dB<br>9.93                                   | Measure-<br>ment<br>dBuV<br>47.39<br>28.24   | dBu∨<br>65.78 -<br>55.78 -   | dB<br>-18.39<br>-27.54   | 30.000  Detector  QP  AVG  |
| 0.150  No. Mk. F  1 0.1 2 0.1 3 0.3                                     | Reading Level  Hz dBuV  539 37.46  539 18.31  180 29.09  | Correct<br>Factor<br>dB<br>9.93<br>9.93                           | Measure-<br>ment<br>dBuV<br>47.39<br>28.24<br>39.11  | dBuV<br>65.78 -<br>55.78 -<br>59.76 -  | dB<br>-18.39<br>-27.54<br>-20.65   | 30.000  Detector  QP  AVG  |
| 0.150  No. Mk. F  1 0.1 2 0.1 3 0.3 4 0.3                               | Reading Level  1Hz dBuV  539 37.46  539 18.31  180 29.09  180 19.78  | Correct<br>Factor<br>dB<br>9.93<br>9.93<br>10.02<br>10.02         | Measure-<br>ment  dBuV  47.39  28.24  39.11  29.80   | dBuV<br>65.78 -<br>55.78 -<br>59.76 -<br>49.76 -   | dB<br>-18.39<br>-27.54<br>-20.65<br>-19.96   | 30.000  Detector  QP  AVG  QP  AVG   |
| 0.150  No. Mk. F  1 0.1 2 0.1 3 0.3 4 0.3 5 0.5                         | Reading Level  1Hz dBuV  539 37.46  539 18.31  1180 29.09  1180 19.78  1899 29.22  | Correct Factor  dB  9.93  9.93  10.02  10.02                      | Measure-<br>ment  dBuV  47.39  28.24  39.11  29.80  39.28  | dBuV 65.78 - 55.78 - 49.76 - 56.00 -   | dB<br>-18.39<br>-27.54<br>-20.65<br>-19.96<br>-16.72   | 30.000  Detector  QP  AVG  QP  AVG   |
| 0.150  No. Mk. F  1 0.1 2 0.1 3 0.3 4 0.3 5 0.5 6 0.5                   | Reading Level  1Hz dBuV  539 37.46  539 18.31  180 29.09  180 19.78  899 29.22   | Correct Factor  dB  9.93  9.93  10.02  10.02  10.06               | Measurement  dBuV  47.39  28.24  39.11  29.80  39.28  31.45  | dBuV<br>65.78 -<br>55.78 -<br>59.76 -<br>49.76 -<br>56.00 -<br>46.00 -   | dB<br>-18.39<br>-27.54<br>-20.65<br>-19.96<br>-16.72<br>-14.55   | Detector QP AVG QP AVG QP AVG  |
| 0.150  No. Mk. F  1 0.1 2 0.1 3 0.3 4 0.3 5 0.5 6 0.5 7 1.1             | Reading Level  1Hz dBuV  539 37.46  539 18.31  1180 29.09  1180 19.78  1899 29.22  | Correct Factor  dB  9.93  9.93  10.02  10.02                      | Measure-<br>ment  dBuV  47.39  28.24  39.11  29.80  39.28  | dBuV 65.78 - 55.78 - 49.76 - 56.00 -   | dB<br>-18.39<br>-27.54<br>-20.65<br>-19.96<br>-16.72<br>-14.55<br>-19.80                               | 30.000  Detector  QP  AVG  QP  AVG   |
| 0.150  No. Mk. F  1 0.1 2 0.1 3 0.3 4 0.3 5 0.5 6 0.5 7 1.1 8 1.1       | Reading Level  1Hz dBuV  539 37.46  539 18.31  180 29.09  180 19.78  899 29.22  899 21.39  260 26.14                                 | Correct Factor  dB  9.93  9.93  10.02  10.02  10.06  10.06        | Measurement  dBuV  47.39  28.24  39.11  29.80  39.28  31.45  36.20   | dBuV 65.78 - 55.78 - 49.76 - 56.00 - 56.00 -   | dB<br>-18.39<br>-27.54<br>-20.65<br>-19.96<br>-16.72<br>-14.55<br>-19.80<br>-16.63                     | Journal Street, 1987 AVG QP AVG QP   |
| 0.150  No. Mk. F  1 0.1 2 0.1 3 0.3 4 0.3 5 0.5 6 0.5 7 1.1 8 1.1 9 2.1 | Reading Level  1Hz dBuV  539 37.46  539 18.31  180 29.09  180 19.78  899 29.22  899 21.39  260 26.14  260 19.31                      | Correct Factor  dB  9.93  9.93  10.02  10.02  10.06  10.06  10.06 | Measurement  dBuV  47.39  28.24  39.11  29.80  39.28  31.45  36.20  29.37  | dBuV 65.78 - 55.78 - 59.76 - 49.76 - 56.00 - 46.00 - 56.00 -   | dB<br>-18.39<br>-27.54<br>-20.65<br>-19.96<br>-16.72<br>-14.55<br>-19.80<br>-16.63                     | January Januar |
| 0.150  No. Mk. F  1 0.1 2 0.1 3 0.3 4 0.3 5 0.5 6 0.5 7 1.1 8 1.1 9 2.1 | Reading Level  Hz dBuV  539 37.46  539 18.31  180 29.09  180 19.78  899 29.22  899 21.39  260 26.14  260 19.31  260 24.91  260 17.25 | Correct Factor  dB  9.93  9.93  10.02  10.06  10.06  10.06  10.06 | Measurement  dBuV  47.39  28.24  39.11  29.80  39.28  31.45  36.20  29.37  34.97   | dBuV 65.78 - 55.78 - 59.76 - 49.76 - 56.00 - 46.00 - 56.00 -   | dB<br>-18.39<br>-27.54<br>-20.65<br>-19.96<br>-16.72<br>-14.55<br>-19.80<br>-16.63<br>-21.03<br>-18.69 | 30.000  Detector  QP  AVG  QP  AVG  QP  AVG  QP  AVG   |





| EUT:   | 32"IDISPLAY   |  | Model Name   | ):   | UIT232E  | B-B06  |
|--|---|--|--|--|--|--|
| Temperature:   | 25 ℃  | 33   | Relative Hur   | nidity:  | 55%  | Albert   |
| Гest Voltage:  | AC 120V/60Hz  | 100  | 80   | (61)   | TI'S   |  |
| Terminal:  | Neutral   | A MAG  |  | 1 6  | The same of  |  |
| Test Mode:   | AC Charging wit   | th TX BLE N  | Node 2402MH  | lz   | ~ N  | KILL   |
| Remark:  | Only worse case   | e is reported  |  |  | 35   |  |
| 90.0 dBuV  |   |  |  |  |  |  |
|  |   |  |  |  | QP:<br>AVG:  |  |
|  |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
| N. X   |   |  |  |  | ×  |  |
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| 1 , 797  |   | والمراجعة والمراجعة والمناطقة والمنا | www.hille  | JAW.   | Haran aryllander   | um hay   |
| 11/12/4/4  | . N. N. M. M. M. M. M.  | Latingrama   | may be appearable on   | A CAN DE COMPANY OF THE PARTY O | "Milding   | Marin M  |
|  | Program A Lab ( ), a All has  | 77   | A CONTRACTOR OF THE PARTY OF TH | Table 1  |  | pea  |
| 1 7 7 7 7 7 1  | (   |  | Markey   | Land Of Control  |  | W.   |
| 7 1,7 1,7 1  | Λ , Λ ,   |  | hor descentifications of   | right his  |  | AVI  |
|  | V , M ,   |  | har deronant find out to   | aptition of the  |  | AVI  |
|  | 0.5   | (MHz)  | Made de la constitución de la co | artiful of "   |  |  |
| -10  | 0.5   | (MHz)  | M. Barren per control  | AMINI OF   |  | 30.000   |
| 0.150  | Reading   | Correct  | Measure-   | Limit  | Over   |  |
| 0.150  | Reading<br>eq. Level  |  |  |  | <b>Over</b>  |  |
| 0.150<br>No. Mk. Fr  | Reading<br>eq. Level  | Correct<br>Factor  | Measure-<br>ment   | <b>Limit</b><br>dBuV   |  | 30.000   |
| 0.150<br>No. Mk. Fro   | Reading eq. Level Hz dBuV 580 41.41   | Correct<br>Factor  | Measure-<br>ment   | Limit<br>dBu√<br>65.56   | dB   | 30.000<br>Detector   |
| 0.150<br>No. Mk. From MH   | Reading Level Hz dBuV 580 41.41   | Correct<br>Factor<br>dB<br>10.12   | Measure-<br>ment<br>dBuV<br>51.53  | dBuV<br>65.56<br>55.56   | dB<br>-14.03   | 30.000<br>Detector   |
| 0.150  No. Mk. From Mt. 1 * 0.15 2 0.15  | Reading Level Hz dBuV 580 41.41 580 25.36 220 33.42   | Correct<br>Factor<br>dB<br>10.12   | Measure-<br>ment<br>dBuV<br>51.53<br>35.48   | dBuV<br>65.56<br>55.56<br>62.74  | dB<br>-14.03<br>-20.08   | 30.000  Detector  QP  AVG  |
| 0.150  No. Mk. From Min 1 * 0.15 2 0.15 3 0.22   | Reading Level  Hz dBuV  580 41.41  580 25.36  220 33.42   | Correct<br>Factor<br>dB<br>10.12<br>10.12  | Measure-<br>ment<br>dBuV<br>51.53<br>35.48<br>43.53  | dBuV<br>65.56<br>55.56<br>62.74<br>52.74   | dB<br>-14.03<br>-20.08<br>-19.21   | 30.000  Detector  QP  AVG  |
| 0.150  No. Mk. From Miles 1 * 0.15 2 0.15 3 0.22 4 0.22                                    | Reading Level Hz dBuV 580 41.41 580 25.36 220 33.42 220 17.41 740 26.94   | Correct<br>Factor<br>dB<br>10.12<br>10.12<br>10.11   | Measure-<br>ment  dBuV  51.53  35.48  43.53  27.52   | dBuV<br>65.56<br>55.56<br>62.74<br>52.74<br>58.41  | dB<br>-14.03<br>-20.08<br>-19.21<br>-25.22   | 30.000  Detector  QP  AVG  |
| No. Mk. From MH  1 * 0.15  2 0.15  3 0.22  4 0.22  5 0.37                                  | Reading Level Hz dBuV 580 41.41 580 25.36 220 33.42 220 17.41 740 26.94 740 19.20                               | Correct<br>Factor<br>dB<br>10.12<br>10.12<br>10.11<br>10.11  | Measurement  dBuV  51.53  35.48  43.53  27.52  37.00   | Limit  dBu√  65.56  55.56  62.74  52.74  58.41  48.41  | -14.03<br>-20.08<br>-19.21<br>-25.22<br>-21.41   | 30.000  Detector  QP  AVG  QP  AVG   |
| 0.150  No. Mk. From Min 1 * 0.15 2 0.15 3 0.22 4 0.22 5 0.37 6 0.37                        | Reading Level Hz dBuV 580 41.41 580 25.36 220 33.42 220 17.41 740 26.94 740 19.20 580 25.05                     | Correct<br>Factor<br>dB<br>10.12<br>10.12<br>10.11<br>10.11<br>10.06<br>10.06  | Measurement  dBuV  51.53  35.48  43.53  27.52  37.00  29.26  | Limit  dBuV  65.56  55.56  62.74  52.74  58.41  48.41  56.00   | dB<br>-14.03<br>-20.08<br>-19.21<br>-25.22<br>-21.41<br>-19.15                         | JOURN STATE OF THE |
| 0.150  No. Mk. From Minute 1 * 0.15 2 0.15 3 0.22 4 0.22 5 0.37 6 0.37 7 0.65              | Reading Level  Hz dBuV  580 41.41  580 25.36  220 33.42  220 17.41  740 26.94  740 19.20  580 25.05  580 12.59  | Correct Factor  dB  10.12  10.12  10.11  10.11  10.06  10.06  10.02  | Measurement  dBuV  51.53  35.48  43.53  27.52  37.00  29.26  35.07   | Limit  dBuV  65.56  55.56  62.74  52.74  58.41  48.41  56.00  46.00  | dB<br>-14.03<br>-20.08<br>-19.21<br>-25.22<br>-21.41<br>-19.15<br>-20.93               | JOURN STATE OF THE PROPERTY OF |
| 0.150  No. Mk. From MH  1 * 0.15  2 0.15  3 0.22  4 0.22  5 0.37  6 0.37  7 0.65  8 0.65   | Reading Level Hz dBuV 580 41.41 580 25.36 220 33.42 220 17.41 740 26.94 740 19.20 580 25.05 580 12.59           | Correct Factor  dB  10.12  10.12  10.11  10.11  10.06  10.06  10.02  | Measurement  dBuV  51.53  35.48  43.53  27.52  37.00  29.26  35.07  22.61  | bimit dBuV 65.56 55.56 62.74 58.41 48.41 56.00 46.00 56.00   | -14.03<br>-20.08<br>-19.21<br>-25.22<br>-21.41<br>-19.15<br>-20.93<br>-23.39           | JOURN STATE OF THE PROPERTY OF |
| 0.150  No. Mk. From Minus 1 * 0.15 2 0.15 3 0.22 4 0.22 5 0.37 6 0.37 7 0.65 8 0.65 9 3.29 | Reading Level Hz dBuV 580 41.41 580 25.36 220 33.42 220 17.41 740 26.94 740 19.20 580 25.05 580 12.59 900 15.85 | Correct Factor  dB  10.12  10.12  10.11  10.06  10.06  10.02  10.02  10.06   | Measurement  dBuV  51.53  35.48  43.53  27.52  37.00  29.26  35.07  22.61  25.91   | bimit dBuV 65.56 55.56 62.74 52.74 58.41 48.41 56.00 46.00 46.00   | -14.03<br>-20.08<br>-19.21<br>-25.22<br>-21.41<br>-19.15<br>-20.93<br>-23.39<br>-30.09 | JOURN STANDS OF THE PROPERTY O |



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| EUT:                              | 32"I   | DISPLAY  |   | Model Na  | me :   | UIT2   | 32B-B06                                      |
|-----------------------------------|--|--|---|---|--|--|--|
| Temperatur                        | re: 25 °   | С  | SA TIME   | Relative H  | lumidity:  | : 55%  |  |
| Test Voltag                       | e: AC 2  | 240V/60Hz  |   | 2 BAT   |  | 1  | A Property                                   |
| Terminal:                         | Line   | 1 6  |   | 13  | GI I   | 1173   |  |
| Test Mode:                        | AC (   | Charging with  | n TX BLE M  | ode 2402MH  | ·lz  | 6  |  |
| Remark:                           | Only   | worse case   | is reported   | MILLE   |  |  | N. Carrie                                    |
| 40 dBuV                           |  | T. J. W.                               | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\  | Managan   | Maria de Santa de Maria de Caracteria de Car | QP:<br>AVG:  |  |
| W W                               | AN MANA.   |  | ey iji ii i v   | VMMMM<br>VMMMM  | Arrival III  | 174  | pea  |
| 0.150                             | 0.5  | Reading  | (MHz)   | 5<br>Measure-   |  | Over   | N <sub>MA</sub>                              |
|                                   | . Freq.  | Level  | (MHz) Correct Factor  | Measure-<br>ment  | Limit  | Over dB  | 30.000                                       |
| 0.150                             | . Freq.  | _  | (MHz)  Correct Factor   | Measure-<br>ment  | <b>Limit</b><br>dBuV   | dB   | 30.000                                       |
| 0.150<br>No. Mk.                  | . Freq.  | <b>Level</b> dBuV  | (MHz) Correct Factor  | Measure-<br>ment  | Limit  | dB<br>-10.36   | 30.000                                       |
| 0.150<br>No. Mk.                  | . Freq. MHz 0.1500   | Level dBu√ 45.71   | Correct<br>Factor   | Measure-<br>ment<br>dBuV<br>55.63   | Limit dBuV 65.99   | dB<br>-10.36<br>-10.53   | 30.000<br>Detector                           |
| 0.150<br>No. Mk.                  | . Freq. MHz 0.1500 0.1500  | dBuV<br>45.71<br>35.54   | Correct<br>Factor<br>dB<br>9.92<br>9.92   | Measure-<br>ment<br>dBuV<br>55.63<br>45.46  | Limit  dBuV  65.99   | dB<br>-10.36<br>-10.53<br>-14.28   | 30.000  Detector  QP  AVG                    |
| 0.150  No. Mk.                    | . Freq. MHz 0.1500 0.1500 0.1980   | 45.71<br>35.54<br>39.39  | Correct<br>Factor<br>dB<br>9.92<br>9.92<br>10.02                                | 5<br>Measure-<br>ment<br>dBuV<br>55.63<br>45.46<br>49.41  | Limit  dBuV  65.99  55.99  63.69   | dB<br>-10.36<br>-10.53<br>-14.28<br>-11.55   | 30.000  Detector  QP  AVG                    |
| 0.150  No. Mk.  1 2 3 4           | . Freq. MHz 0.1500 0.1500 0.1980 0.1980                                    | dBuV<br>45.71<br>35.54<br>39.39<br>32.12                                   | (MHz)  Correct Factor  dB  9.92  9.92  10.02                                    | 5<br>Measurement<br>dBuV<br>55.63<br>45.46<br>49.41<br>42.14  | Limit  dBuV  65.99  55.99  63.69   | dB<br>-10.36<br>-10.53<br>-14.28<br>-11.55<br>-14.73   | 30.000  Detector  QP  AVG  QP  AVG           |
| 0.150  No. Mk.  1 2 3 4 5         | . Freq. MHz 0.1500 0.1500 0.1980 0.1980 0.5020                             | Level  dBuV  45.71  35.54  39.39  32.12  31.25                             | (MHz)  Correct Factor  dB  9.92  9.92  10.02  10.02  10.02                      | 5<br>Measure-<br>ment<br>dBuV<br>55.63<br>45.46<br>49.41<br>42.14<br>41.27                                | Limit  dBuV  65.99  55.99  63.69  53.69  56.00   | dB<br>-10.36<br>-10.53<br>-14.28<br>-11.55<br>-14.73<br>-10.81   | 30.000  Detector  QP  AVG  QP  AVG           |
| 0.150  No. Mk.  1 2 3 4 5 6       | . Freq. MHz 0.1500 0.1500 0.1980 0.1980 0.5020                             | A5.71<br>35.54<br>39.39<br>32.12<br>31.25<br>25.17                         | (MHz)  Correct Factor  dB  9.92  9.92  10.02  10.02  10.02                      | 5<br>Measurement<br>dBuV<br>55.63<br>45.46<br>49.41<br>42.14<br>41.27<br>35.19                            | Limit  dBuV  65.99  55.99  63.69  53.69  46.00   | dB<br>-10.36<br>-10.53<br>-14.28<br>-11.55<br>-14.73<br>-10.81<br>-14.89                               | 30.000  Detector  QP  AVG  QP  AVG  QP  AVG  |
| 0.150  No. Mk.  1 2 3 4 5 6 7     | . Freq. MHz 0.1500 0.1500 0.1980 0.1980 0.5020 0.5020 0.6500               | Level  dBuV  45.71  35.54  39.39  32.12  31.25  25.17  31.02               | (MHz)  Correct Factor  dB  9.92  9.92  10.02  10.02  10.02  10.02               | 5<br>Measurement<br>dBuV<br>55.63<br>45.46<br>49.41<br>42.14<br>41.27<br>35.19<br>41.11                   | Limit  dBuV  65.99  55.99  53.69  56.00  46.00   | dB<br>-10.36<br>-10.53<br>-14.28<br>-11.55<br>-14.73<br>-10.81<br>-14.89<br>-10.24                     | 30.000  Detector QP AVG QP AVG QP AVG        |
| 0.150  No. Mk.  1 2 3 4 5 6 7 8 * | . Freq. MHz 0.1500 0.1500 0.1980 0.1980 0.5020 0.5020 0.6500               | Level  dBuV  45.71  35.54  39.39  32.12  31.25  25.17  31.02  25.67        | (MHz)  Correct Factor  dB  9.92  9.92  10.02  10.02  10.02  10.02  10.09        | 5<br>Measure-<br>ment<br>dBuV<br>55.63<br>45.46<br>49.41<br>42.14<br>41.27<br>35.19<br>41.11<br>35.76     | Limit  dBuV  65.99  55.99  53.69  56.00  46.00  46.00  | dB<br>-10.36<br>-10.53<br>-14.28<br>-11.55<br>-14.73<br>-10.81<br>-14.89<br>-10.24<br>-15.87           | 30.000  Detector QP AVG QP AVG QP AVG        |
| 0.150  No. Mk.  1 2 3 4 5 6 7 8 * | . Freq. MHz 0.1500 0.1500 0.1980 0.1980 0.5020 0.5020 0.6500 0.6500 1.4700 | Level  dBuV  45.71  35.54  39.39  32.12  31.25  25.17  31.02  25.67  30.07 | (MHz)  Correct Factor  dB  9.92  9.92  10.02  10.02  10.02  10.09  10.09  10.06 | 5<br>Measurement<br>dBuV<br>55.63<br>45.46<br>49.41<br>42.14<br>41.27<br>35.19<br>41.11<br>35.76<br>40.13 | Limit  dBuV  65.99  55.99  63.69  56.00  46.00  46.00  56.00   | dB<br>-10.36<br>-10.53<br>-14.28<br>-11.55<br>-14.73<br>-10.81<br>-14.89<br>-10.24<br>-15.87<br>-12.68 | 30.000  Detector QP AVG QP AVG QP AVG QP AVG |

x:Over limit !:over margin

\*:Maximum data



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|               | 3                        |   |  |  |
|---------------|--------------------------|---|--|--|
| EUT:          | 32"IDISPLAY              | M   | odel Name :  | UIT232B-B06  |
| Temperature:  | 25 ℃                     | R   | elative Humidity:  | 55%  |
| Test Voltage: | AC 240V/60Hz             | )   | diam   | 10   |
| Terminal:     | Neutral                  | 100   | CIII   | 100  |
| Test Mode:    | AC Charging with T       | X BLE Mode                                    | 2402MHz  |  |
| Remark:       | Only worse case is       | reported                                      | Miles  | 3 13   |
| 90.0 dBuV     | <u>'</u>                 |   |  |  |
|               |                          |   |  | QP: —  |
|               |                          |   |  |  |
|               |                          |   |  |  |
| *             |                          |   |  |  |
| W *           |                          |   | Alla.  | S  |
| 40            | X                        |   | And the state of t | AND THE PROPERTY OF THE PROPER |
|               |                          | ▝▚∦▀∖╱Ŷ╱╱╱                                    | Anna.  | Mary Mary Mary   |
|               | Y   Y                    | $M/M/\Lambda \Lambda \Lambda \Lambda \Lambda$ | Tan Hakhadaya a Jan  | all the way of the   |
| 1 A A DA AA M | AN JAMA LAMBAL LAMBANIA  | MAAAAA  | 1 AMMONTONIA MARINI  | peak   |
|               |                          |   |  | AVG  |
| 10            |                          |   |  |  |
| 0.150         | 0.5                      | (MHz)   | 5  | 30.000   |
|               | D "                      | <b>.</b>                                      |  |  |
| No. Mk.       | Reading (<br>Freq. Level |   | easure-<br>ment Limit  | Over   |
|               |                          |   |  |  |
|               | MHz dBuV                 | dB (  | dBuV dBuV  | dB Detector  |

| No. | Mk. | Freq.   | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over   |          |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|
|     |     | MHz     | dBu∨             | dB                | dBu∨             | dBu∨  | 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      |

<sup>\*:</sup>Maximum data x:Over limit !:over margin



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

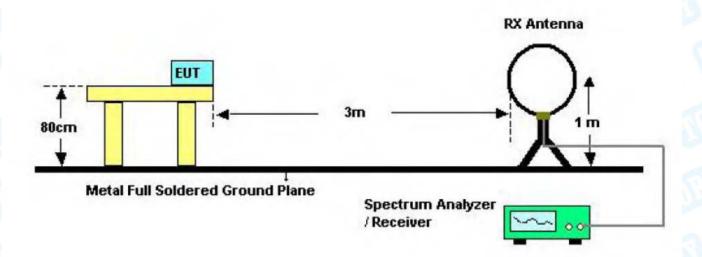
#### Note:

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

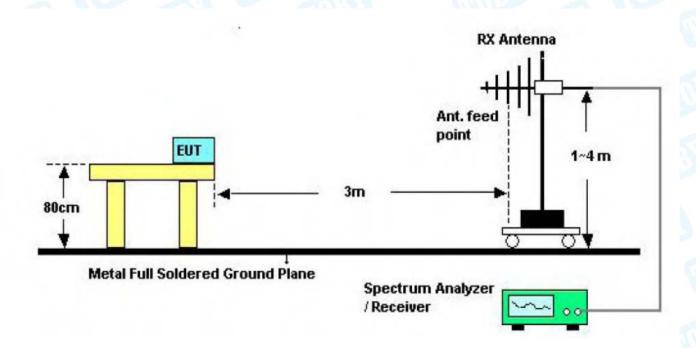


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# 5.2 Test Setup



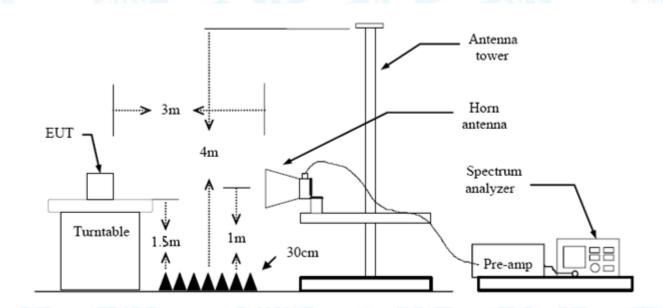
Below 30MHz Test Setup



Below 1000MHz Test Setup



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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.



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# 5.4 EUT Operating Condition

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

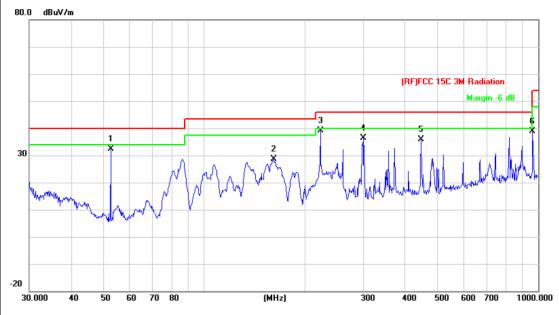
## 5.5 Test Data

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.



| ١ | EUT:          | 32"IDISPLAY                 | Model:             | UIT232B-B06 |
|---|---------------|-----------------------------|--------------------|-------------|
|   | Temperature:  | 25 ℃                        | Relative Humidity: | 55%         |
|   | Test Voltage: | AC 120V/60Hz                |                    | 13          |
|   | Ant. Pol.     | Horizontal                  |                    |             |
|   | Test Mode:    | BLE TX 2402 Mode            |                    | Aller       |
|   | Remark:       | Only worse case is reported |                    |             |
|   |               | •                           |                    |             |

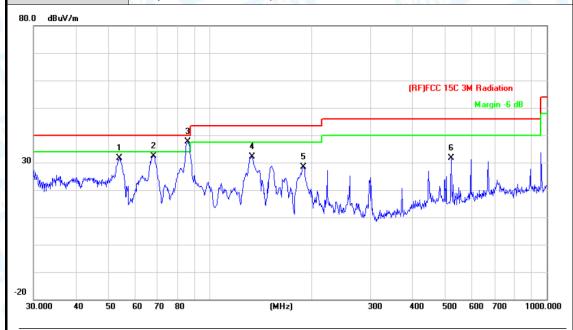


| No | . Mk | . Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |
|----|------|----------|------------------|-------------------|------------------|--------|--------|----------|
|    |      | MHz      | dBu∨             | dB/m              | dBuV/m           | dBuV/m | 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     |

<sup>\*:</sup>Maximum data x:Over limit !:over margin



|               |                         |                    | LI MILLION  |
|---------------|-------------------------|--------------------|-------------|
| EUT:          | 32"IDISPLAY             | Model:             | UIT232B-B06 |
| Temperature:  | <b>25</b> ℃             | Relative Humidity: | 55%         |
| Test Voltage: | AC 120V/60Hz            |                    |             |
| Ant. Pol.     | Vertical                |                    |             |
| Test Mode:    | BLE TX 2402 Mode        |                    |             |
| Remark:       | Only worse case is repo | rted               | 133         |

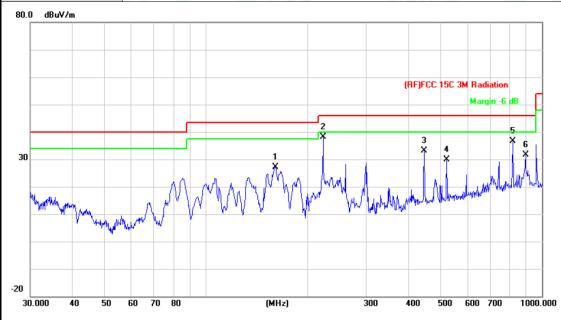


| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|
|     |     | MHz      | dBu∀             | dB/m              | dBuV/m           | 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     |

<sup>\*:</sup>Maximum data x:Over limit !:over margin



| EUT:          | 32"IDISPLAY                 | Model:             | UIT232B-B06 |
|---------------|-----------------------------|--------------------|-------------|
| Temperature:  | 25 ℃                        | Relative Humidity: | 55%         |
| Test Voltage: | AC 120V/60Hz                |                    | 133         |
| Ant. Pol.     | Horizontal                  |                    |             |
| Test Mode:    | BLE TX 2442 Mode            |                    | A RIVER     |
| Remark:       | Only worse case is reported |                    | 3 5         |
| 80.0 dBuV/m   |                             |                    |             |
|               |                             |                    |             |



| N | o. Mk | . Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | O∨er   |          |
|---|-------|----------|------------------|-------------------|------------------|--------|--------|----------|
|   |       | MHz      | dBu∀             | dB/m              | dBuV/m           | dBuV/m | 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     |

<sup>\*:</sup>Maximum data x:Over limit !:over margin



| D V       |
|-----------|
| K V       |
| ) I       |
| Comments. |
|           |

| EUT:               | 32"ID       | ISPLAY     | M                                     | odel:                            |           | UIT232B-E                      | 306        |
|--------------------|-------------|------------|---------------------------------------|----------------------------------|-----------|--------------------------------|------------|
| Temperature:       | 25 ℃        | Carl       | Re                                    | elative Humi                     | dity:     | 55%                            |            |
| Test Voltage:      | AC 12       | 0V/60Hz    | 1000                                  | 11                               | (A)       | 1133                           |            |
| Ant. Pol.          | Vertica     | al         | AHIL                                  |                                  | 1 63      |                                | TIP.       |
| Test Mode:         | BLE T       | X 2442 Mod | de                                    | MILE                             |           | 2 111                          | No.        |
| Remark:            | Only v      | vorse case | is reported                           | -                                | CITI'     | 13                             |            |
| 80.0 dBuV/m        |             |            |                                       |                                  |           |                                |            |
|                    |             |            |                                       |                                  |           |                                |            |
|                    |             |            |                                       |                                  |           |                                |            |
|                    |             |            |                                       |                                  | (RF)FCC   | ISC 3M Radiation               |            |
|                    |             |            |                                       |                                  |           | Margin -6                      | dB [       |
|                    |             | 3          |                                       |                                  |           |                                |            |
| 30                 | 1 2<br>X 1  | Ä          | 4<br>% 5                              |                                  |           | 6                              |            |
| Market aller aller | $\Lambda M$ | /          | Arm X                                 |                                  |           |                                |            |
| delander by down   | VW          | / W\\\\    | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Sa La. II.                       | Mulana    | Mary of syndron and Prophysics | Mary healt |
|                    | ' '         | 1 0 00     | Y •                                   | L.M. Konderdan Arte In Philipsin | MACHINANA |                                |            |
|                    |             |            |                                       |                                  |           |                                |            |
|                    |             |            |                                       |                                  |           |                                |            |
| -20                |             |            |                                       |                                  |           |                                |            |
| 30.000 40 50       | 60 70       | 80         | (MHz)                                 | 300                              | 400 5     | 00 600 700                     | 1000.00    |
|                    |             | Reading    | Correct                               | Measure-                         |           |                                |            |
| No. Mk. F          | req.        | Level      | Factor                                | ment                             | Limit     | Over                           |            |
| N                  | ИНz         | dBuV       | dB/m                                  | dBuV/m                           | dBuV/m    | dB                             | Detecto    |
| 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       |
|                    |             |            |                                       |                                  |           |                                |            |
|                    |             |            |                                       |                                  |           |                                |            |



| TOBY | dino |      |  |
|------|------|------|--|
| MO'A |      | Ein. |  |

| EUT:  | 32"IDISPLAY   | Model:  | UIT232B-B06  |
|---|---|---|--|
| Temperature:  | 25 ℃  | Relative Humidity:  | 55%  |
| Test Voltage:   | AC 120V/60Hz  |   | 30   |
| Ant. Pol.   | Horizontal  |   |  |
| Test Mode:  | BLE TX 2480 Mode  |   | A RIVER  |
| Remark:   | Only worse case is reported   |   | 3 _ 0  |
| 80.0 dBuV/m   |   |   |  |
| 30  |   | (RF)FCC 15C   | 3M Radiation Margin -6 dB                              |
| -20   |   | Mary Mary Mary Mary Mary Mary Mary Mary   | and was been all the second                            |
| Address of the State of State | 60 70 80 (MHz)  | 300 400 500   | 600 700 1000.000                                       |
| -20<br>30.000 40 50   | <b>,</b> ,  | 300 400 500  Measure- ment Limit  | 600 700 1000.000<br>Over                               |
| -20<br>30.000 40 50   | Reading Correct I<br>eq. Level Factor   | Measure-  |  |
| -20<br>30.000 40 50<br>No. Mk. Fr   | Reading Correct I eq. Level Factor tz dBuV dB/m   | Measure-<br>ment Limit  | Over   |
| -20<br>30.000 40 50<br>No. Mk. Fr   | Reading Correct I<br>eq. Level Factor<br>dBuV dB/m<br>984 51.15 -22.94                  | Measure-<br>ment Limit<br>dBuV/m dBuV/m   | Over<br>dB Detector                                    |
| No. Mk. From Miles 1 85.8   | Reading Correct I Level Factor dBuV dB/m 984 51.15 -22.94 9502 58.78 -19.40             | Measurement         Limit           dBuV/m         dBuV/m           28.21         40.00   | Over  dB Detector  -11.79 peak                         |
| No. Mk. From Mr. 1 85.8 2 * 222.9   | Reading Correct I Factor dBuV dB/m 984 51.15 -22.94 9502 58.78 -19.40 6158 53.74 -17.10 | Measurement         Limit           dBuV/m         dBuV/m           28.21         40.00           39.38         46.00                               | Over  dB Detector  -11.79 peak  -6.62 peak             |
| No. Mk. From Mt 1 85.8 2 * 222.9 3 299.3  | Reading Correct I Factor     dBuV dB/m  | Measurement         Limit           dBuV/m         dBuV/m           28.21         40.00           39.38         46.00           36.64         46.00 | Over  dB Detector  -11.79 peak  -6.62 peak  -9.36 peak |

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



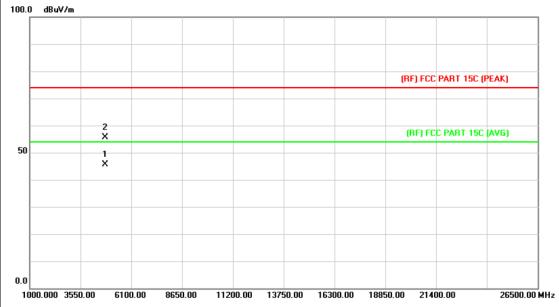


| AC 120V/60Hz /ertical BLE TX 2480 Mode Only worse case is repo | ported 5  | - (1)  |   |  |
|--|---|--|---|--|
| /ertical BLE TX 2480 Mode Only worse case is repo              | orted   | 6  | Margin -6 d   |  |
| BLE TX 2480 Mode Only worse case is repo                       | orted 5   | 6  | Margin -6 d   |  |
| Only worse case is repo  | orted   | 6  | Margin -6 d   |  |
| 3  | orted 5   | 6  | Margin -6 d   |  |
| a X  | 5 × × × × × × × × × × × × × × × × × × ×   | 6  | Margin -6 d   |  |
| a X  |   | 6  | Margin -6 d   |  |
| a X  | M. M  | 6  | Margin -6 d   |  |
| a X  | M   | 6  | Margin -6 d   |  |
| a X  | Mary Mary Mary Mary Mary Mary Mary Mary   |  |   |  |
| a X  | Maryal And James  |  |   | mu.  |
|  | May Mary Mary Mary Mary Mary Mary Mary M  |  |   | www.   |
|  | M Maryan Maryan   | Market Company   | Karipan karipan landa salaha  | mul.   |
|  | M happing forms   | malunder Judy  | Karama darka ya karan kara  | MWW.   |
| V  | V V Warry Harrison  | White for a gold of the  | N. C.   |  |
| V  |   |  |   |  |
|  |   |  |   |  |
|  |   |  |   |  |
|  |   |  |   |  |
|  |   |  |   |  |
| ) 70 80 (M   | Hz) 300   | 400 500  | 0 600 700   | 1000.0   |
| Reading Corr   | ect Measure-  |  |   |  |
| -  |   | Limit  | Over  |  |
| dBuV dB/r  | m dBuV/m  | dBuV/m   | dB I  | Detect   |
| 1 55.95 -24.   | 44 31.51  | 40.00  | -8.49   | peal   |
| 8 56.28 -23.   | 80 32.48  | 40.00  | -7.52   | peal   |
| 1 60.09 -22.9  | 92 37.17  | 40.00  | -2.83   | peal   |
| 11 54.12 -22.  | 12 32.00  | 43.50  | -11.50  | peal   |
| 58 43.10 -17.  | 10 26.00  | 46.00  | -20.00  | peal   |
| 31 42.91 -10.  | 40 32.51  | 46.00  | -13.49  | peal   |
|  |   |  |   |  |
|  | . Level Face    dBuV   dB/r   1   55.95   -24.68     56.28   -23.88     1   60.09   -22.88     1   54.12   -22.68     58   43.10   -17.68     1   1   1   1     1   1   1     1   1 | Level Factor ment    dBuV   dB/m   dBuV/m     55.95   -24.44   31.51     8   56.28   -23.80   32.48     1   60.09   -22.92   37.17     11   54.12   -22.12   32.00     58   43.10   -17.10   26.00     31   42.91   -10.40   32.51 | Level         Factor         ment         Limit           dBuV         dB/m         dBuV/m         dBuV/m           d1         55.95         -24.44         31.51         40.00           d8         56.28         -23.80         32.48         40.00           d1         60.09         -22.92         37.17         40.00           d1         54.12         -22.12         32.00         43.50           d2         43.10         -17.10         26.00         46.00           d3         42.91         -10.40         32.51         46.00 | Level         Factor         ment         Limit         Over           dBuV         dB/m         dBuV/m         dBuV/m         dB           31         55.95         -24.44         31.51         40.00         -8.49           28         56.28         -23.80         32.48         40.00         -7.52           31         60.09         -22.92         37.17         40.00         -2.83           31         54.12         -22.12         32.00         43.50         -11.50           38         43.10         -17.10         26.00         46.00         -20.00           31         42.91         -10.40         32.51         46.00         -13.49 |



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| EUT:          | 32"IDISPLAY  | Model:             | UIT232B-B06 |  |  |  |  |
|---------------|--|--------------------|-------------|--|--|--|--|
| Temperature:  | 25 ℃   | Relative Humidity: | 55%         |  |  |  |  |
| Test Voltage: | AC 120V/60Hz   |                    |             |  |  |  |  |
| Ant. Pol.     | Horizontal   | U                  |             |  |  |  |  |
| Test Mode:    | BLE Mode TX 2402 MHz                                       | WIII DE            | 2           |  |  |  |  |
| Remark:       | No report for the emission which more than 10 dB below the |                    |             |  |  |  |  |
|               | prescribed limit.  |                    |             |  |  |  |  |
|               |  |                    |             |  |  |  |  |

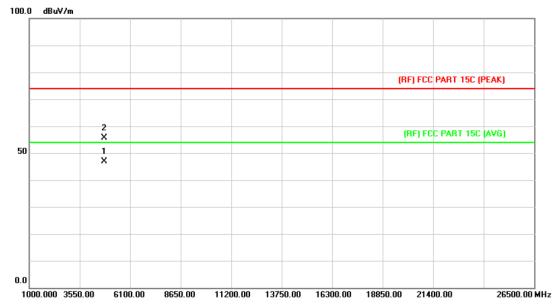


| 1 | ۷o. | Mk. | Freq.    | Reading<br>Level |       | Measure-<br>ment | Limit  | Over   |          |
|---|-----|-----|----------|------------------|-------|------------------|--------|--------|----------|
|   |     |     | MHz      | dBu∀             | dB/m  | dBuV/m           | dBuV/m | dB     | 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     |



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| EUT:          | 32"IDISPLAY                  | Model:   | UIT232B-B06 |  |  |  |  |  |
|---------------|------------------------------|--|-------------|--|--|--|--|--|
| Temperature:  | 25 ℃                         | Relative Humidity:   | 55%         |  |  |  |  |  |
| Test Voltage: | AC 120V/60Hz                 | AC 120V/60Hz   |             |  |  |  |  |  |
| Ant. Pol.     | Vertical                     | Vertical   |             |  |  |  |  |  |
| Test Mode:    | BLE Mode TX 2402 MHz         |  | 2 Million   |  |  |  |  |  |
| Remark:       | No report for the emission v | No report for the emission which more than 10 dB below the |             |  |  |  |  |  |
|               | prescribed limit.            |  |             |  |  |  |  |  |
|               |                              |  |             |  |  |  |  |  |

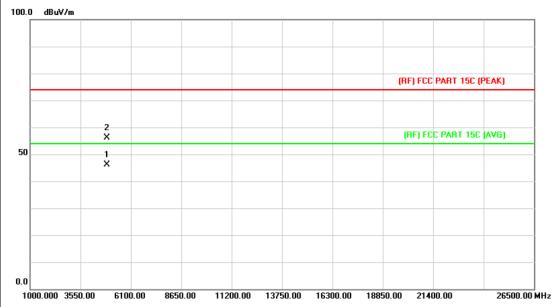


| N | lo. Mk | Freq.    | _     | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |
|---|--------|----------|-------|-------------------|------------------|--------|--------|----------|
|   |        | MHz      | dBu∀  | dB/m              | dBuV/m           | dBuV/m | dB     | Detector |
| 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     |



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| EUT:          | 32"IDISPLAY  | Model:             | UIT232B-B06 |  |  |  |
|---------------|--|--------------------|-------------|--|--|--|
| Temperature:  | <b>25</b> ℃  | Relative Humidity: | 55%         |  |  |  |
| Test Voltage: | AC 120V/60Hz   |                    | 33          |  |  |  |
| Ant. Pol.     | Horizontal   |                    |             |  |  |  |
| Test Mode:    | BLE Mode TX 2442 MHz                                       |                    | HILL        |  |  |  |
| Remark:       | No report for the emission which more than 10 dB below the |                    |             |  |  |  |
|               | prescribed limit.  |                    |             |  |  |  |
| 1             |  |                    |             |  |  |  |

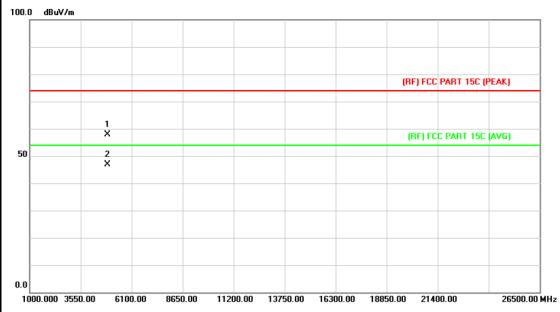


| N | No. | Mk. | Freq.    | Reading<br>Level |       | Measure-<br>ment | Limit  | Over   |          |
|---|-----|-----|----------|------------------|-------|------------------|--------|--------|----------|
|   |     |     | MHz      | dBu∨             | dB/m  | dBuV/m           | dBuV/m | dB     | 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     |



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| EUT:          | 32"IDISPLAY                                    | Model:                | UIT232B-B06 |  |  |  |  |  |
|---------------|--|-----------------------|-------------|--|--|--|--|--|
| Temperature:  | <b>25</b> ℃                                    | Relative Humidity:    | 55%         |  |  |  |  |  |
| Test Voltage: | AC 120V/60Hz                                   | AC 120V/60Hz          |             |  |  |  |  |  |
| Ant. Pol.     | Vertical                                       | TO U                  |             |  |  |  |  |  |
| Test Mode:    | BLE Mode TX 2442 MHz                           | WID -                 | Jan Jan     |  |  |  |  |  |
| Remark:       | No report for the emission v prescribed limit. | which more than 10 dB | below the   |  |  |  |  |  |
| 100 0 JD-1/1- |  |                       |             |  |  |  |  |  |

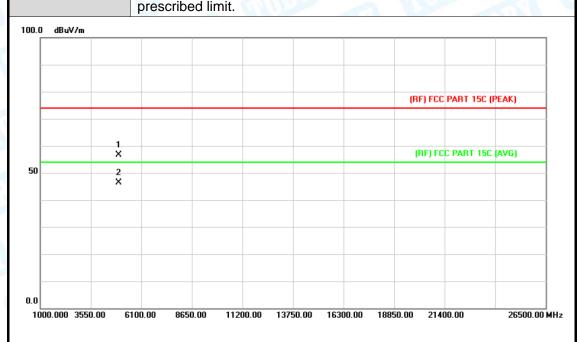


| No | . Mk | . Freq.  | Reading<br>Level |       | Measure-<br>ment | Limit  | Over   |          |
|----|------|----------|------------------|-------|------------------|--------|--------|----------|
|    |      | MHz      | dBu∨             | dB/m  | dBuV/m           | dBuV/m | dB     | Detector |
| 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      |



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

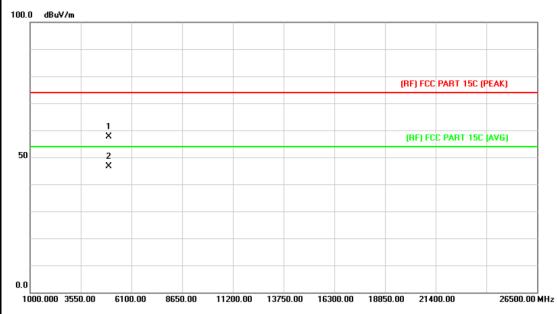


| No | . Mk | . Freq.  | Reading<br>Level |       | Measure-<br>ment | Limit  | Over   |          |
|----|------|----------|------------------|-------|------------------|--------|--------|----------|
|    |      | MHz      | dBu∨             | dB/m  | dBuV/m           | dBuV/m | dB     | Detector |
| 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      |



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



| No | . Mk | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          |
|----|------|----------|------------------|-------------------|------------------|--------|--------|----------|
|    |      | MHz      | dBu∨             | 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      |



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# 6. Restricted Bands Requirement

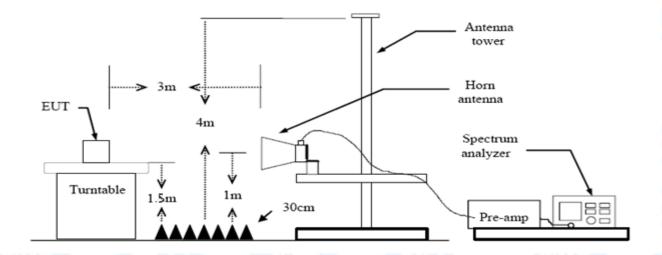
#### 6.1 Test Standard and Limit

6.1.1 Test Standard FCC Part 15.209 FCC Part 15.205

6.1.2 Test Limit

| Restricted Frequency | Class B (dBuV/m)(at 3 M) |         |  |
|----------------------|--------------------------|---------|--|
| Band<br>(MHz)        | Peak                     | Average |  |
| 2310 ~2390           | 74                       | 54      |  |
| 2483.5 ~2500         | 74                       | 54      |  |

## 6.2 Test Setup



#### 6.3 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



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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.

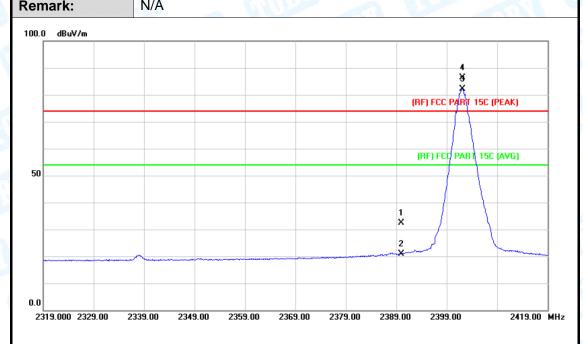
Test data please refer the following pages.



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(1) Radiation Test

| EUT:          | 32"IDISPLAY          | Model:             | UIT232B-B06 |
|---------------|----------------------|--------------------|-------------|
| Temperature:  | 25 ℃                 | Relative Humidity: | 55%         |
| Test Voltage: | AC 120V/60Hz         |                    |             |
| Ant. Pol.     | Horizontal           |                    | A HILL      |
| Test Mode:    | BLE Mode TX 2402 MHz | 1013               |             |
| Pomark:       | Ν/Δ                  |                    |             |

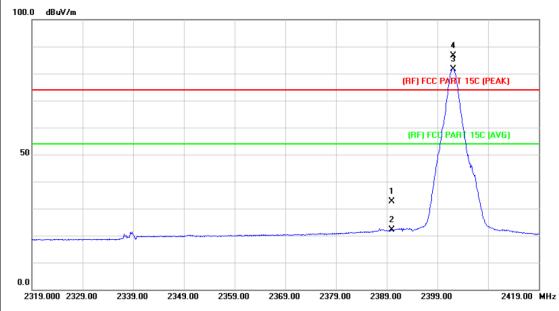


| No. | Mk | . Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit       | O∨er      |          |
|-----|----|----------|------------------|-------------------|------------------|-------------|-----------|----------|
|     |    | MHz      | dBu∨             | dB/m              | 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   | Х  | 2402.200 | 85.55            | 0.82              | 86.37            | Fundamental | Frequency | peak     |



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| EUT:          | 32"IDISPLAY          | Model:             | UIT232B-B06 |
|---------------|----------------------|--------------------|-------------|
| Temperature:  | 25 ℃                 | Relative Humidity: | 55%         |
| Test Voltage: | AC 120V/60Hz         |                    | 339         |
| Ant. Pol.     | Vertical             |                    |             |
| Test Mode:    | BLE Mode TX 2402 MHz | WIDS -             | A Alban     |
| Remark:       | N/A                  |                    |             |
|               |                      |                    |             |



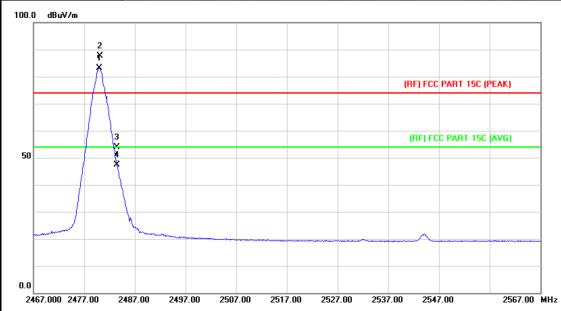
| No | Mk | . Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit       | O∨er      |          |
|----|----|----------|------------------|-------------------|------------------|-------------|-----------|----------|
|    |    | MHz      | dBu∨             | dB/m              | dBuV/m           | dBuV/m      | 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  | Χ  | 2402.200 | 85.85            | 0.82              | 86.67            | Fundamental | Frequency | peak     |



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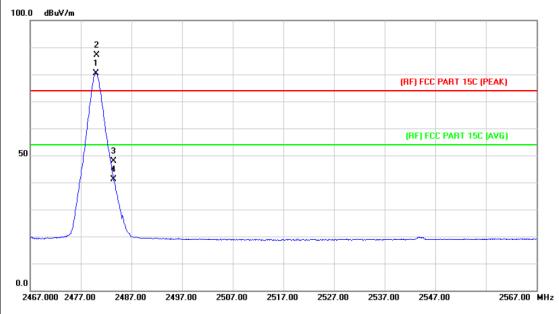
| EUT:          | 32"IDISPLAY          | Model:             | UIT232B-B0<br>6 |  |  |  |
|---------------|----------------------|--------------------|-----------------|--|--|--|
| Temperature:  | 25 ℃                 | Relative Humidity: | 55%             |  |  |  |
| Test Voltage: | AC 120V/60Hz         |                    |                 |  |  |  |
| Ant. Pol.     | Horizontal           | MINDS OF           | CHILL           |  |  |  |
| Test Mode:    | BLE Mode TX 2480 MHz |                    |                 |  |  |  |
| Remark:       | N/A                  | - 130 m            |                 |  |  |  |



| No. | Mk | . Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit                 | Over     |          |
|-----|----|----------|------------------|-------------------|------------------|-----------------------|----------|----------|
|     |    | MHz      | dBu∨             | dB/m              | dBuV/m           | dBuV/m                | dB       | Detector |
| 1   | *  | 2480.000 | 82.02            | 1.15              | 83.17            | Fundamental F         | requency | AVG      |
| 2   | Х  | 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      |



| EUT:          | 32"IDISPLAY          | Model:             | UIT232B-B06  |
|---------------|----------------------|--------------------|--|
| Temperature:  | 25 ℃                 | Relative Humidity: | 55%  |
| Test Voltage: | AC 120V/60Hz         |                    | TIES TO THE TOTAL PROPERTY OF THE TOTAL PROP |
| Ant. Pol.     | Vertical             |                    |  |
| Test Mode:    | BLE Mode TX 2480 MHz | MILES              |  |
| Remark:       | N/A                  |                    | 133  |
|               |                      |                    |  |



| No | . Mk | . Freq.  | Reading<br>Level | Correct<br>Factor | Measure<br>ment | Limit         | Over     |          |
|----|------|----------|------------------|-------------------|-----------------|---------------|----------|----------|
|    |      | MHz      | dBu∨             | dB/m              | dBuV/m          | dBuV/m        | dB       | Detector |
| 1  | *    | 2480.000 | 79.25            | 1.15              | 80.40           | Fundamental F | requency | AVG      |
| 2  | Х    | 2480.100 | 86.06            | 1.15              | 87.21           | Fundamental F | requency | 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      |



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# 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                        |      |  |  |  |  |
|-------------------------------------|------|--|--|--|--|
| ▶ Permanent attached antenna        | · WO |  |  |  |  |
| □ Unique connector antenna          |      |  |  |  |  |
| ☐ Professional installation antenna |      |  |  |  |  |