

# FCC Radio Test Report

## FCC ID: 2AC8G-UITAS

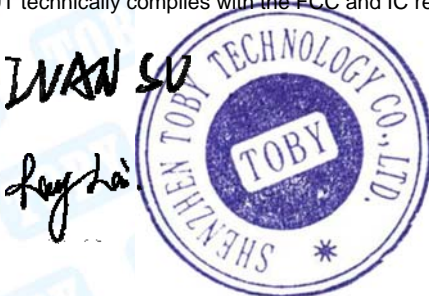
### Class II Permissive Change

Report No. : TB-FCC147492  
Applicant : Outform Ltd.  
Equipment Under Test (EUT)  
EUT Name : iDISPLAY TABLET  
Model No. : UIT313B-U02  
Series No. : Please see the page of 3  
Brand Name : ContextMedia Health  
Receipt Date : 2016-04-05  
Test Date : 2016-04-06 to 2016-04-10  
Issue Date : 2016-04-11  
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 :



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.



## Contents

<b>CONTENTS.....</b>	<b>2</b>
<b>1. GENERAL INFORMATION ABOUT EUT .....</b>	<b>3</b>
1.1 Client Information.....	3
1.2 General Description of EUT (Equipment Under Test) .....	3
1.3 Block Diagram Showing the Configuration of System Tested.....	4
1.4 Description of Support Units .....	4
1.5 Description of Test Mode.....	5
1.6 Description of Test Software Setting .....	6
1.7 Measurement Uncertainty .....	6
1.8 Test Facility.....	7
<b>2. TEST SUMMARY.....</b>	<b>8</b>
<b>3. TEST EQUIPMENT.....</b>	<b>9</b>
<b>4. CONDUCTED EMISSION TEST .....</b>	<b>10</b>
4.1 Test Standard and Limit.....	10
4.2 Test Setup.....	10
4.3 Test Procedure.....	10
4.4 EUT Operating Mode .....	11
4.5 Test Data.....	11
<b>5. RADIATED EMISSION TEST .....</b>	<b>16</b>
5.1 Test Standard and Limit.....	16
5.2 Test Setup.....	17
5.3 Test Procedure.....	18
5.4 EUT Operating Condition .....	19
5.5 Test Data.....	19
<b>6. RESTRICTED BANDS REQUIREMENT .....</b>	<b>32</b>
6.1 Test Standard and Limit.....	32
6.2 Test Setup.....	32
6.3 Test Procedure.....	32
6.4 EUT Operating Condition .....	33
6.5 Test Data.....	33
<b>7. ANTENNA REQUIREMENT.....</b>	<b>38</b>
7.1 Standard Requirement.....	38
7.2 Antenna Connected Construction .....	38
7.3 Result.....	38



# 1. General Information about EUT

## 1.1 Client Information

**Applicant** : Outform Ltd.

**Address** : Room A103 and A105, Nanshan Medical Instrument Industry Park,  
No. 1019, Nanhai Avenue Nanshan District, Shenzhen, Guangdong  
Province, China

**Manufacturer** : Outform Ltd.

**Address** : Room A103 and A105, Nanshan Medical Instrument Industry Park,  
No. 1019, Nanhai Avenue Nanshan District, Shenzhen, Guangdong  
Province, China

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

<b>EUT Name</b>	:	iDISPLAY TABLET
<b>Models No.</b>	:	UIT313B-U02, UIT313B-U01, UIT313X-XYX, UIT305X-XYX, UIT413X-XYX, UIT243X-XYX, UIT410X-XYX, UIT407X-XYX, UIM400X-XYX (The 1st X is A-Z 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: BLE: 2402MHz~2480MHz WIFI 802.11b/g/n(H20): 2412MHz~2462MHz 802.11n(H40): 2422MHz~2452MHz <small>see note(2)</small>
	:	Number of Channel: Bluetooth 4.0 (BLE): 40 channels <small>see note(3)</small>
	:	RF Output Power: -6.092 dBm Conducted Power
	:	Antenna Gain: 1.66 dBi FPC Antenna
	:	Modulation Type: GFSK
	:	Bit Rate of Transmitter: 1Mbps(GFSK)
<b>Power Supply</b>	:	DC power supplied by AC/DC Adapter.
<b>Power Rating</b>	:	Input: AC 100~240V 50/60Hz 0.6A Max. Output: 5V 2.5A.
<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 v03r04.
- (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.

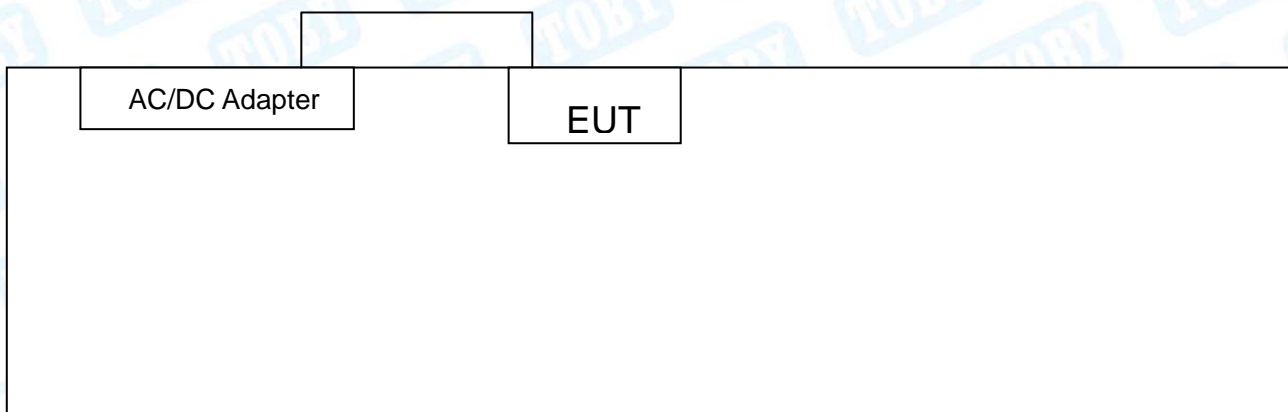
(3) Antenna information provided by the applicant.

(4) Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
<b>00</b>	<b>2402</b>	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	<b>20</b>	<b>2442</b>	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	<b>39</b>	<b>2480</b>
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	Bluetooth MP Tool		
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: 9kHz~150kHz	$\pm 3.42$ dB
	150kHz to 30MHz	$\pm 3.42$ dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	$\pm 4.60$ dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	$\pm 4.40$ dB
Radiated Emission	Level Accuracy: 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 5.2 (1)	6dB Bandwidth	PASS	N/A Note(3)
15.247(b)	RSS 247 5.4 (4)	Peak Output Power	PASS	N/A Note(3)
15.247(e)	RSS 247 5.2 (2)	Power Spectral Density	PASS	N/A Note(3)
15.247(d)	RSS 247 5.5	Transmitter Radiated Spurious Emission	PASS	N/A
<p><b>Note</b> (1): “/” for no requirement for this test item. (2): N/A is an abbreviation for Not Applicable. (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.</p>				



### 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. 08, 2015	Aug. 07, 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. 26, 2016	Mar. 25, 2017
Bilog Antenna	ETS-LINDGREN	3142E	00117542	Mar. 26, 2016	Mar. 25, 2017
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 26, 2016	Mar. 25, 2017
Horn Antenna	ETS-LINDGREN	3117	00143209	Mar. 26, 2016	Mar. 25, 2017
Pre-amplifier	Sonoma	310N	185903	Mar. 26, 2016	Mar. 25, 2017
Pre-amplifier	HP	8447B	3008A00849	Mar. 26, 2016	Mar. 25, 2017
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 26, 2016	Mar. 25, 2017
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

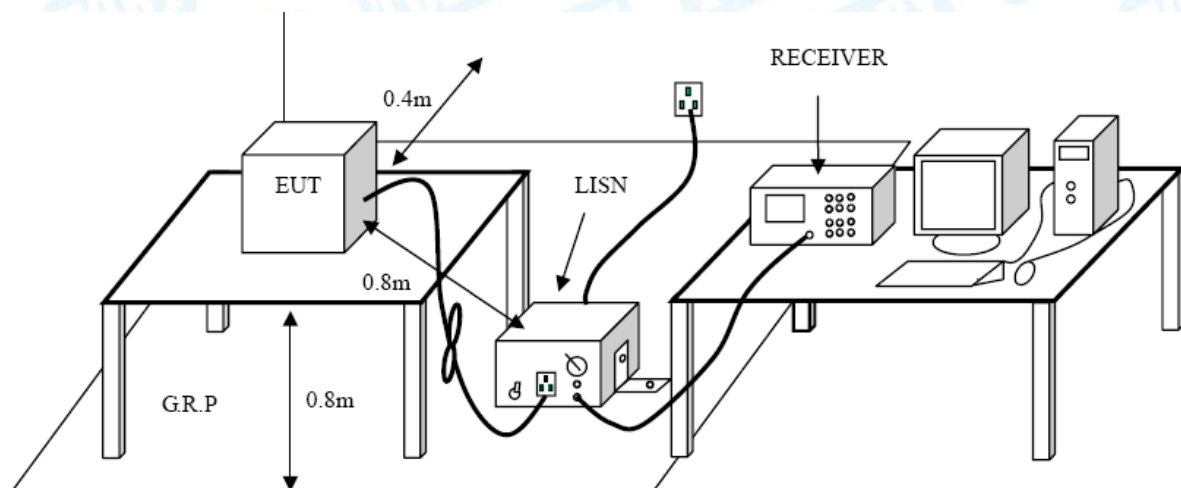
Notes:

(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

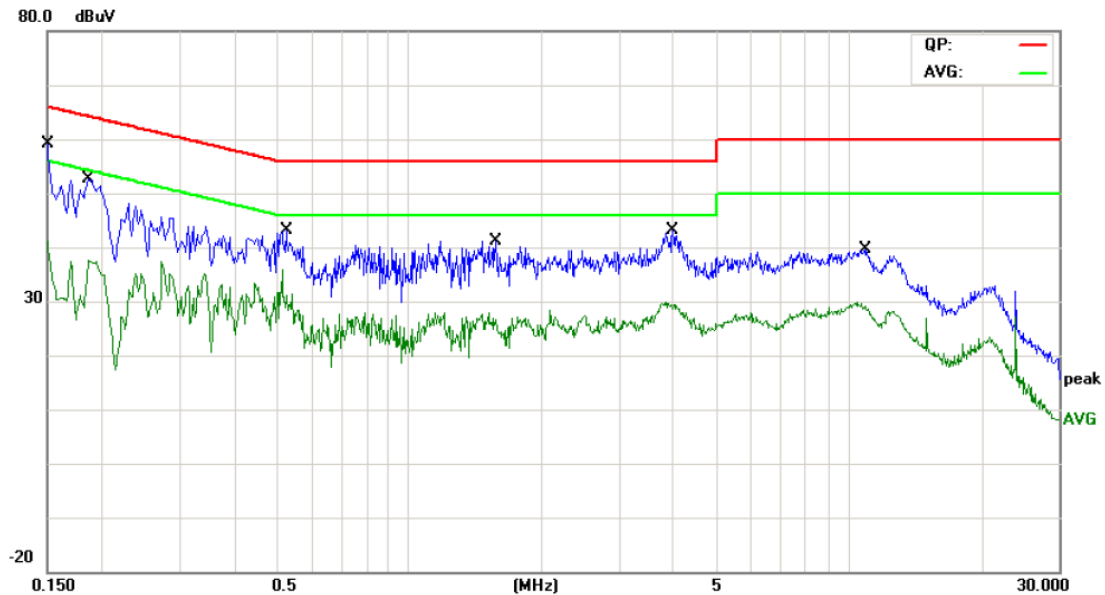
Please refer to the description of test mode.

#### 4.5 Test Data

Test data please refer the following pages.



<b>EUT:</b>	iDISPLAY TABLET	<b>Model Name :</b>	UIT313B-U02
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Terminal:</b>	Line		
<b>Test Mode:</b>	AC Charging with TX BLE Mode 2402MHz		
<b>Remark:</b>	Only worse case is reported		



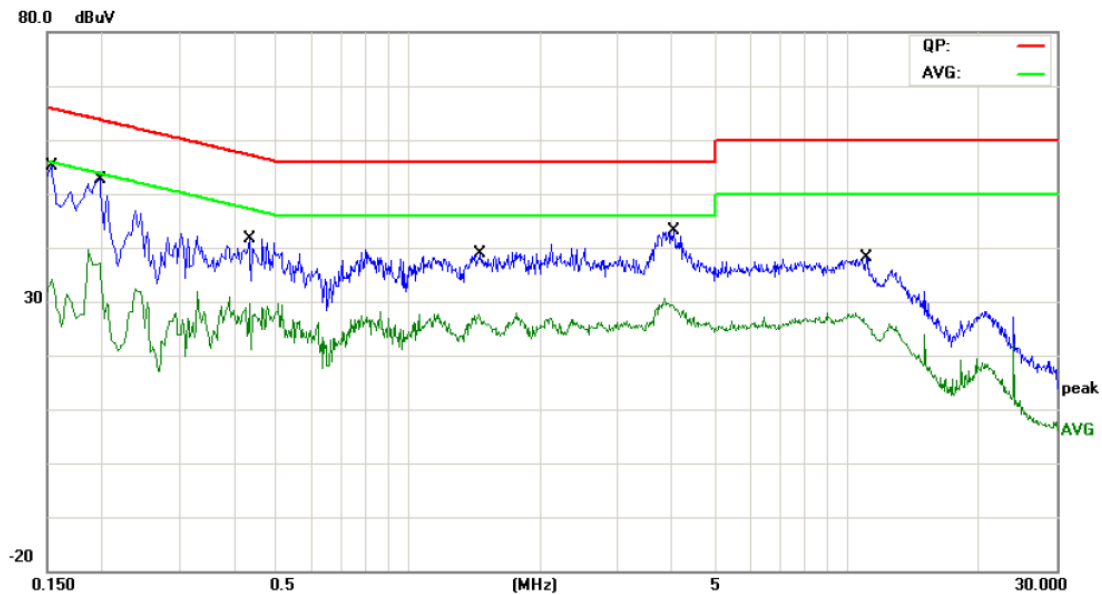
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1500	42.65	9.92	52.57	65.99	-13.42	QP
2		0.1500	26.92	9.92	36.84	55.99	-19.15	AVG
3		0.1874	40.17	9.99	50.16	64.15	-13.99	QP
4		0.1874	24.60	9.99	34.59	54.15	-19.56	AVG
5		0.5260	28.40	10.03	38.43	56.00	-17.57	QP
6		0.5260	17.95	10.03	27.98	46.00	-18.02	AVG
7		1.5700	23.19	10.06	33.25	56.00	-22.75	QP
8		1.5700	13.82	10.06	23.88	46.00	-22.12	AVG
9		3.9740	25.94	9.99	35.93	56.00	-20.07	QP
10		3.9740	18.28	9.99	28.27	46.00	-17.73	AVG
11		10.8620	23.60	10.18	33.78	60.00	-26.22	QP
12		10.8620	17.76	10.18	27.94	50.00	-22.06	AVG

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

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



<b>EUT:</b>	iDISPLAY TABLET	<b>Model Name :</b>	UIT313B-U02
<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		

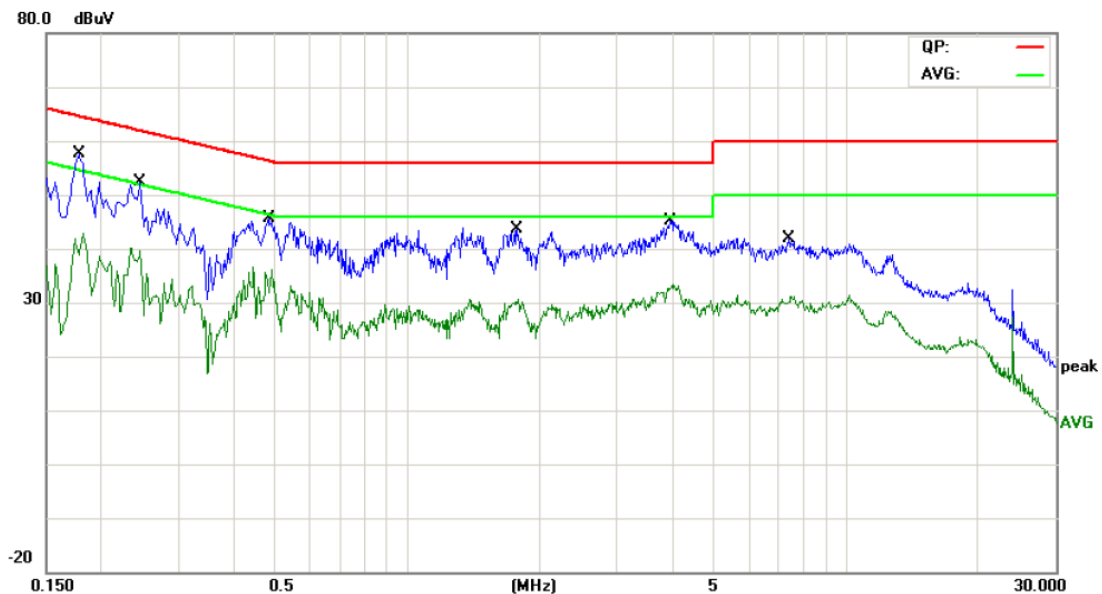


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1539	35.75	10.12	45.87	65.78	-19.91	QP
2		0.1539	20.53	10.12	30.65	55.78	-25.13	AVG
3	*	0.1980	38.34	10.12	48.46	63.69	-15.23	QP
4		0.1980	24.15	10.12	34.27	53.69	-19.42	AVG
5		0.4340	25.17	10.04	35.21	57.18	-21.97	QP
6		0.4340	15.60	10.04	25.64	47.18	-21.54	AVG
7		1.4620	23.59	10.11	33.70	56.00	-22.30	QP
8		1.4620	16.18	10.11	26.29	46.00	-19.71	AVG
9		4.0300	25.95	10.06	36.01	56.00	-19.99	QP
10		4.0300	17.59	10.06	27.65	46.00	-18.35	AVG
11		11.0219	20.82	10.14	30.96	60.00	-29.04	QP
12		11.0219	14.78	10.14	24.92	50.00	-25.08	AVG

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

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

EUT:	iDISPLAY TABLET	Model Name :	UIT313B-U02
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 240V/60Hz		
Terminal:	Line		
Test Mode:	AC Charging with TX BLE Mode 2402MHz		
Remark:	Only worse case is reported		



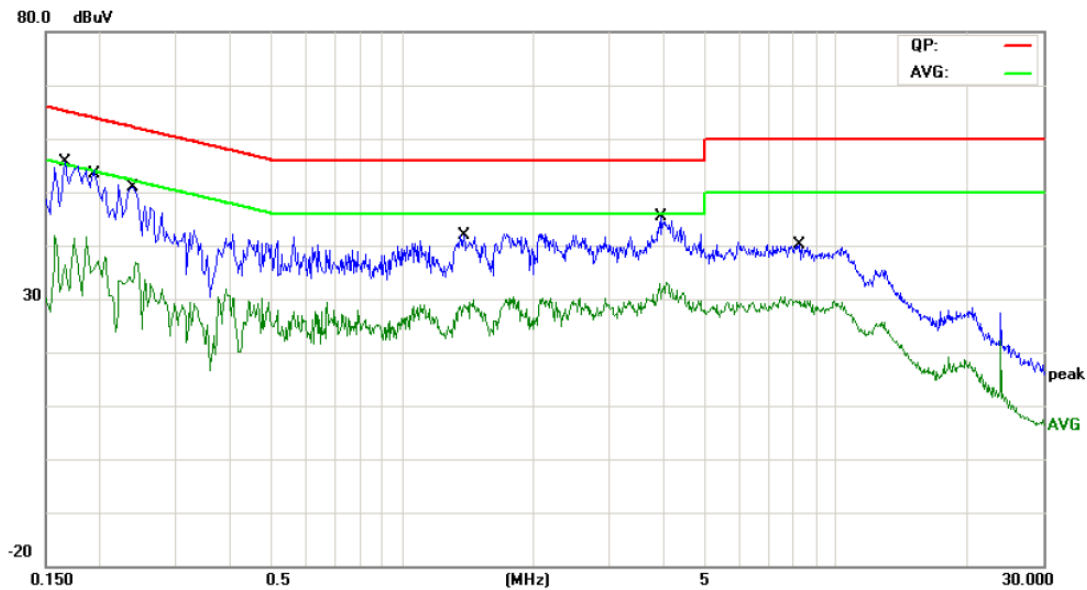
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1780	40.72	10.12	50.84	64.57	-13.73	QP
2		0.1780	26.46	10.12	36.58	54.57	-17.99	AVG
3		0.2460	37.53	10.10	47.63	61.89	-14.26	QP
4		0.2460	25.71	10.10	35.81	51.89	-16.08	AVG
5		0.4820	31.77	10.03	41.80	56.30	-14.50	QP
6		0.4820	21.94	10.03	31.97	46.30	-14.33	AVG
7		1.7780	26.42	10.08	36.50	56.00	-19.50	QP
8		1.7780	18.05	10.08	28.13	46.00	-17.87	AVG
9		3.9740	29.37	10.06	39.43	56.00	-16.57	QP
10		3.9740	20.97	10.06	31.03	46.00	-14.97	AVG
11		7.3940	25.02	10.07	35.09	60.00	-24.91	QP
12		7.3940	18.69	10.07	28.76	50.00	-21.24	AVG

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

Emission Level= Read Level+ Correct Factor



<b>EUT:</b>	iDISPLAY TABLET	<b>Model Name :</b>	UIT313B-U02
<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.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1660	40.78	10.12	50.90	65.15	-14.25	QP
2		0.1660	22.44	10.12	32.56	55.15	-22.59	AVG
3		0.1965	38.58	10.12	48.70	63.75	-15.05	QP
4		0.1965	23.43	10.12	33.55	53.75	-20.20	AVG
5		0.2380	35.58	10.11	45.69	62.16	-16.47	QP
6		0.2380	22.07	10.11	32.18	52.16	-19.98	AVG
7		1.3860	26.98	10.12	37.10	56.00	-18.90	QP
8		1.3860	17.70	10.12	27.82	46.00	-18.18	AVG
9		3.9540	29.02	10.06	39.08	56.00	-16.92	QP
10		3.9540	20.43	10.06	30.49	46.00	-15.51	AVG
11		8.2100	23.90	10.10	34.00	60.00	-26.00	QP
12		8.2100	17.68	10.10	27.78	50.00	-22.22	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)**

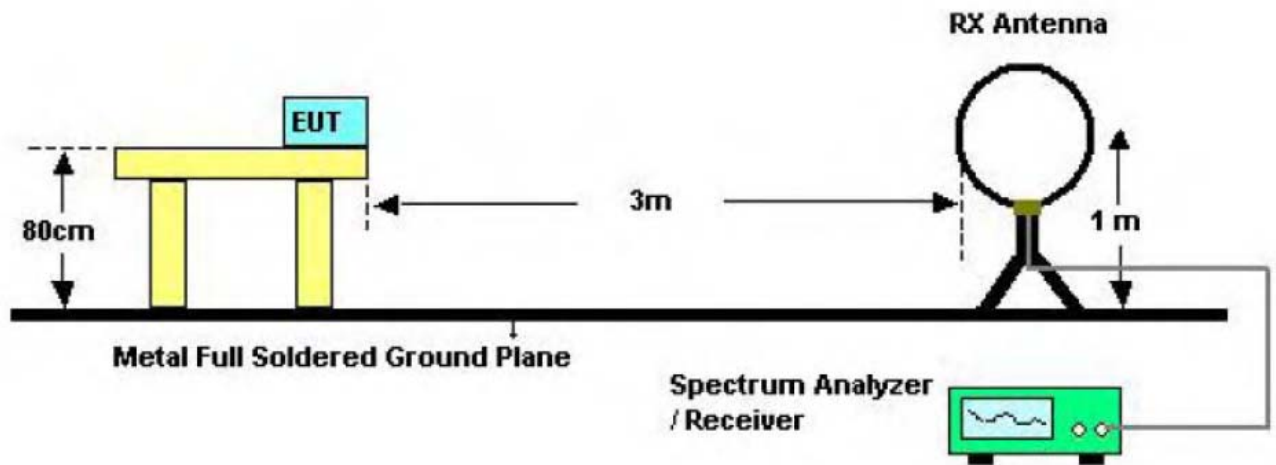
Frequency (MHz)	Class A (dBuV/m)(at 3 M)		Class B (dBuV/m)(at 3 M)	
	Peak	Average	Peak	Average
Above 1000	80	60	74	54

**Note:**

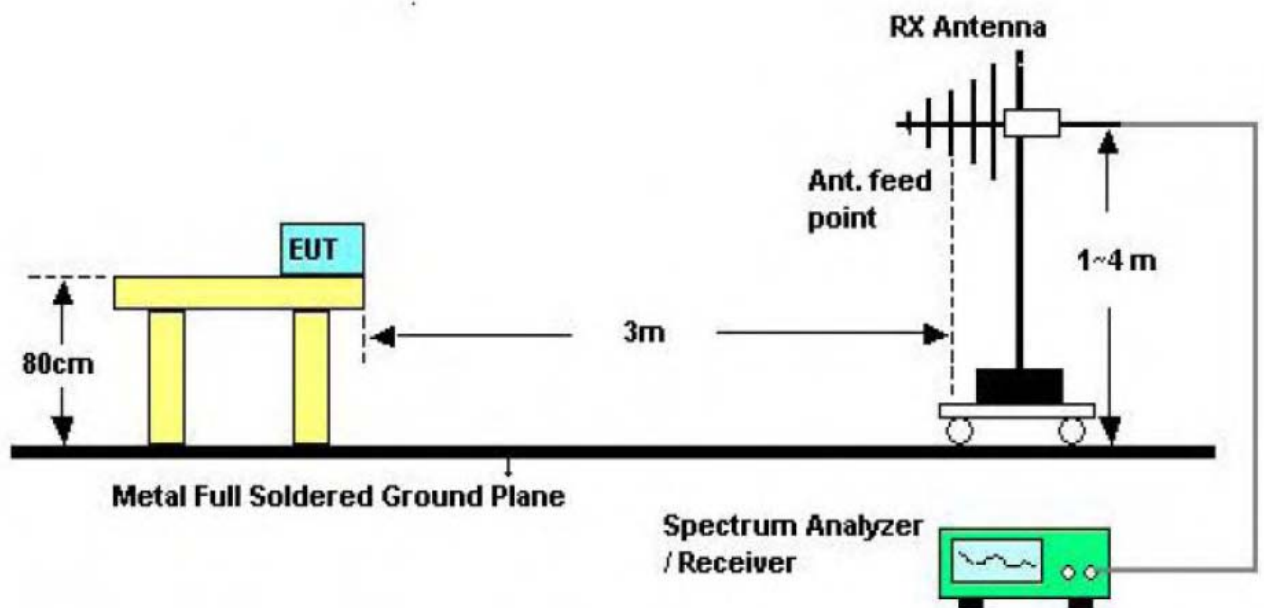
- (1) The tighter limit applies at the band edges.
- (2) Emission Level(dBuV/m)=20log Emission Level(uV/m)



## 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

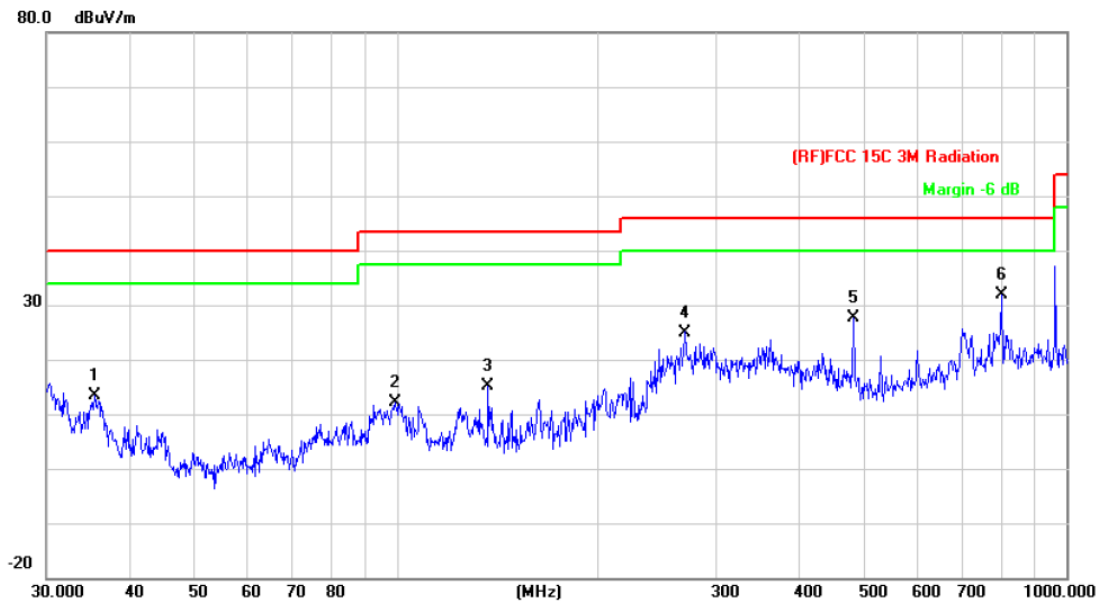
The Equipment Under Test was set to Continual Transmitting in maximum power.

## 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=10 kHz with Peak Detector for Average Values.

Test data please refer the following pages.

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<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		



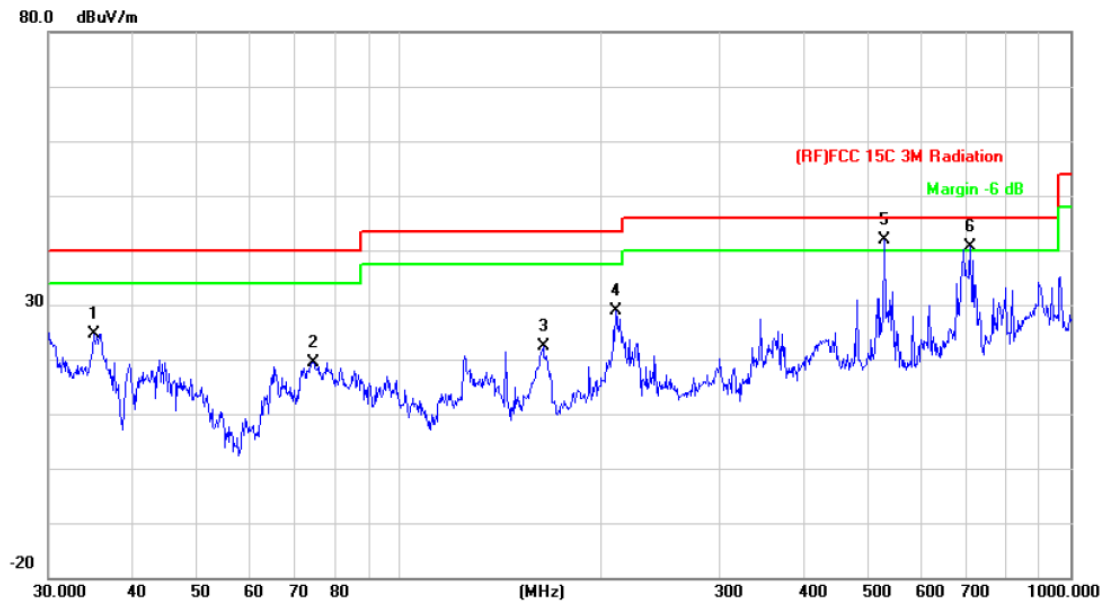
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		35.3750	30.72	-17.29	13.43	40.00	-26.57	peak
2		99.5281	34.02	-21.86	12.16	43.50	-31.34	peak
3		136.9391	37.18	-22.04	15.14	43.50	-28.36	peak
4		269.4284	42.69	-17.69	25.00	46.00	-21.00	peak
5		480.5276	39.36	-11.62	27.74	46.00	-18.26	peak
6	*	801.7863	38.35	-6.49	31.86	46.00	-14.14	peak

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

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



<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<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		

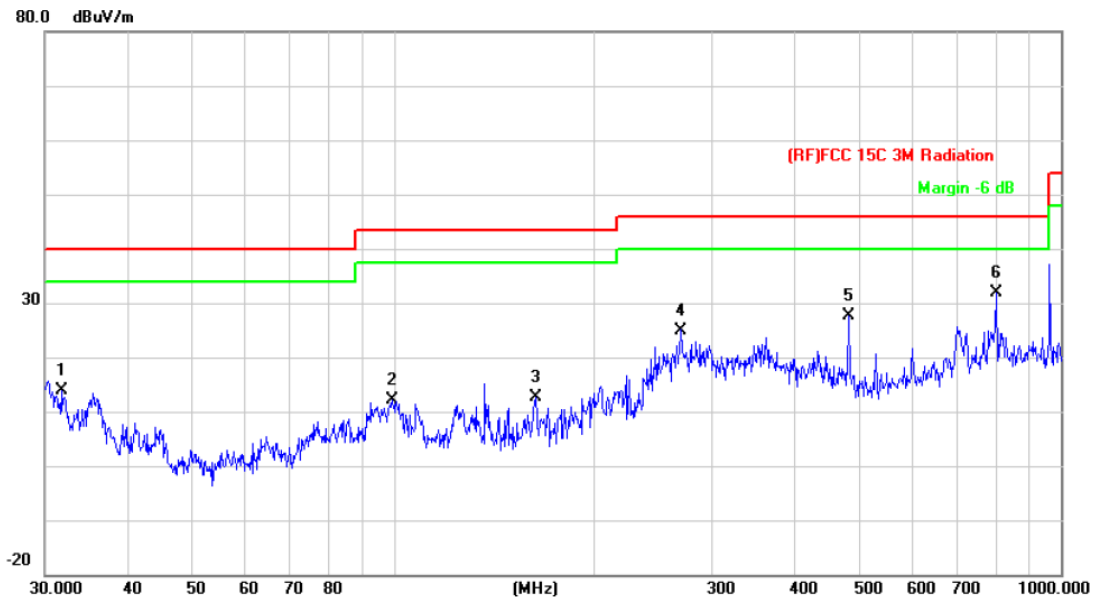


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		35.0048	41.73	-17.06	24.67	40.00	-15.33	peak
2		74.3955	42.86	-23.46	19.40	40.00	-20.60	peak
3		163.7550	43.10	-20.76	22.34	43.50	-21.16	peak
4		210.0482	48.78	-19.96	28.82	43.50	-14.68	peak
5	*	528.2458	52.07	-10.14	41.93	46.00	-4.07	peak
6	!	709.1823	47.59	-6.97	40.62	46.00	-5.38	peak

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

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

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<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		



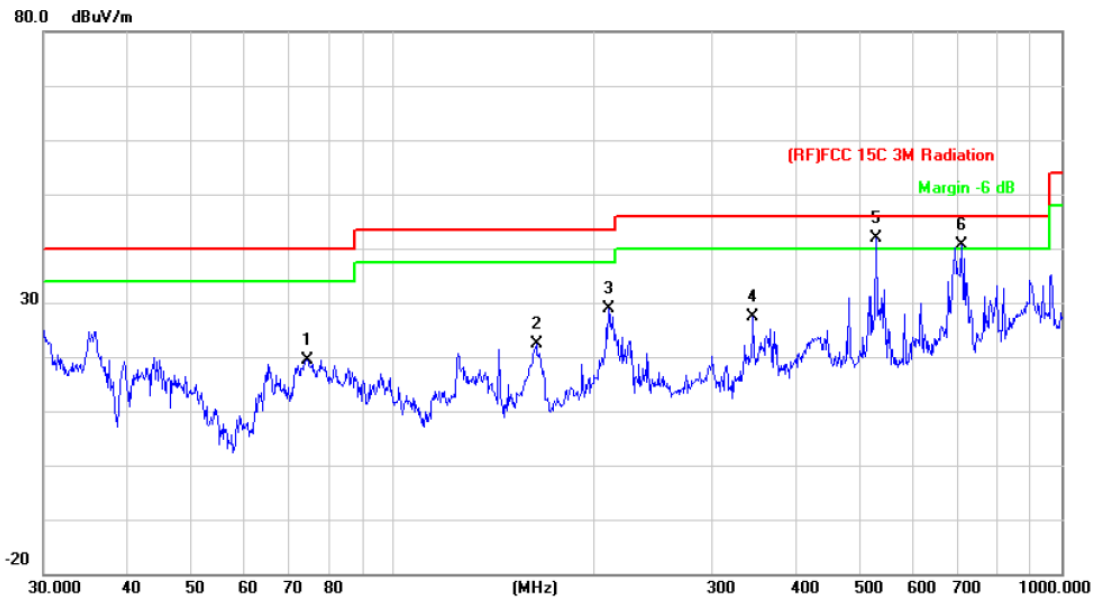
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		31.7313	28.85	-15.03	13.82	40.00	-26.18	peak
2		99.5279	34.02	-21.86	12.16	43.50	-31.34	peak
3		163.1818	33.35	-20.72	12.63	43.50	-30.87	peak
4		269.4284	42.69	-17.69	25.00	46.00	-21.00	peak
5		480.5276	39.36	-11.62	27.74	46.00	-18.26	peak
6	*	801.7862	38.35	-6.49	31.86	46.00	-14.14	peak

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

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



<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<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		

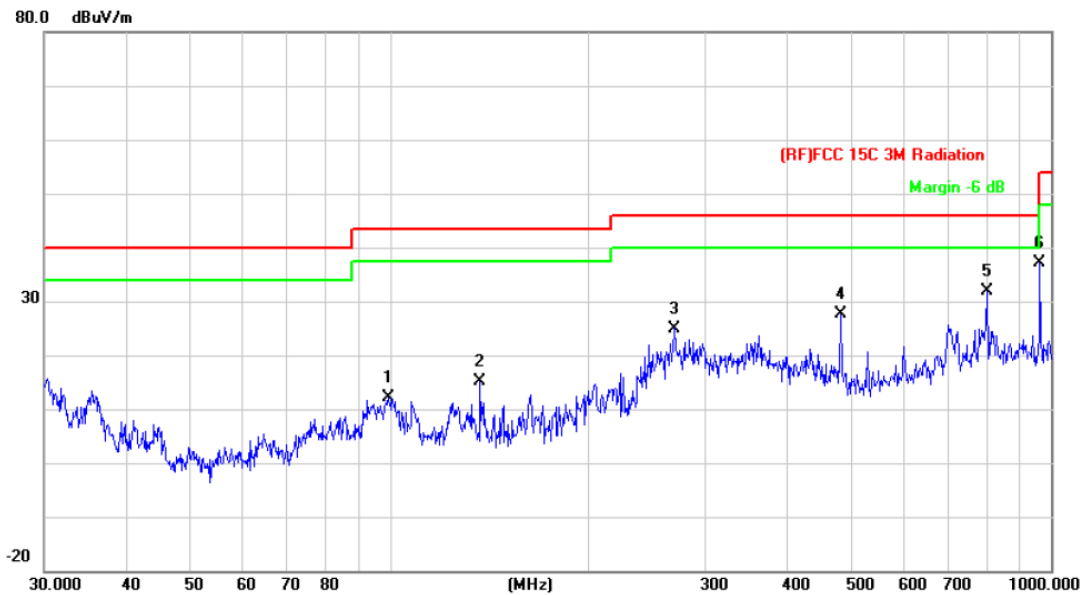


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		74.3953	42.86	-23.46	19.40	40.00	-20.60	peak
2		163.7547	43.10	-20.76	22.34	43.50	-21.16	peak
3		210.0482	48.78	-19.96	28.82	43.50	-14.68	peak
4		345.5951	42.34	-14.88	27.46	46.00	-18.54	peak
5	*	528.2458	52.07	-10.14	41.93	46.00	-4.07	peak
6	!	709.1823	47.59	-6.97	40.62	46.00	-5.38	peak

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

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

EUT:	iDISPLAY TABLET	Model:	UIT313B-U02
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	BLE TX 2480 Mode		
Remark:	Only worse case is reported		



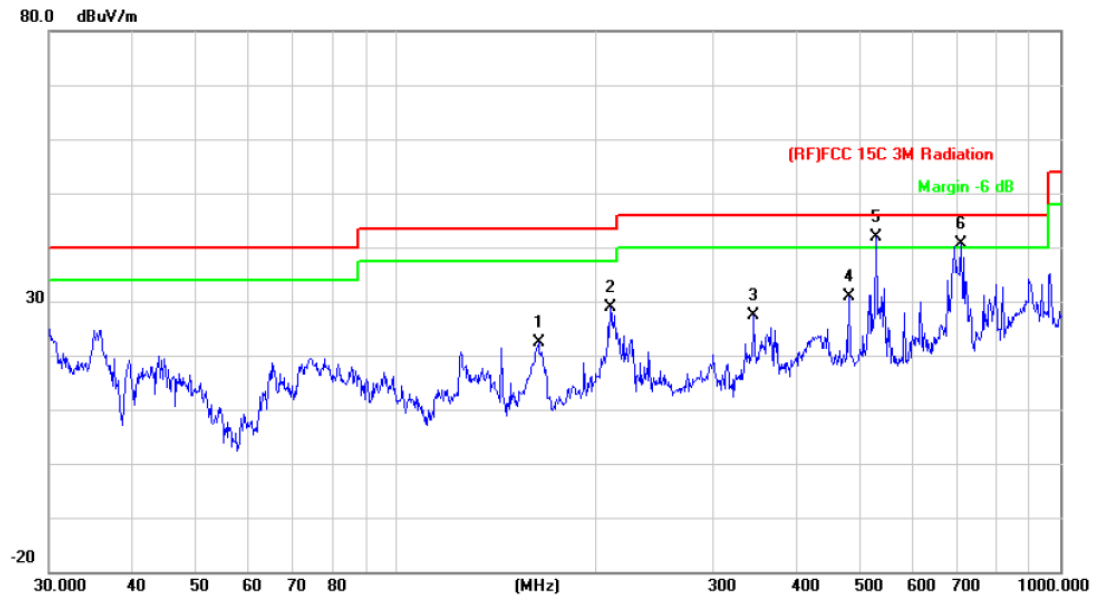
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		99.5279	34.02	-21.86	12.16	43.50	-31.34	peak
2		136.9388	37.18	-22.04	15.14	43.50	-28.36	peak
3		269.4284	42.70	-17.70	25.00	46.00	-21.00	peak
4		480.5276	39.36	-11.62	27.74	46.00	-18.26	peak
5	*	801.7862	38.35	-6.49	31.86	46.00	-14.14	peak
6		962.1621	41.96	-4.84	37.12	54.00	-16.88	peak

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

Emission Level= Read Level+ Correct Factor



<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<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		

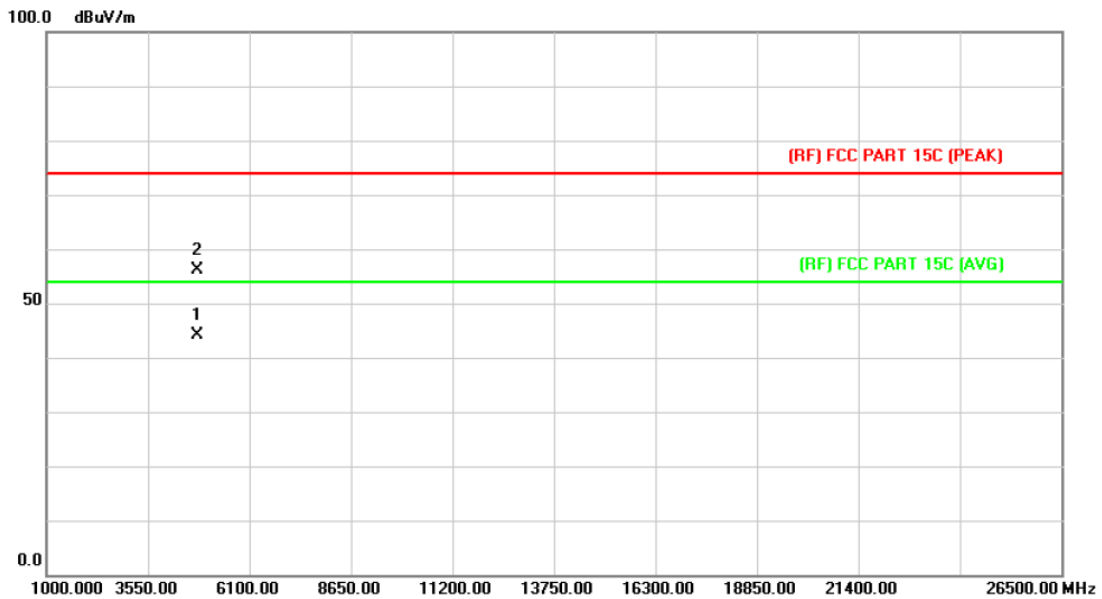


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		163.7547	43.10	-20.76	22.34	43.50	-21.16	peak
2		210.0482	48.78	-19.96	28.82	43.50	-14.68	peak
3		345.5951	42.34	-14.88	27.46	46.00	-18.54	peak
4		480.5276	42.54	-11.62	30.92	46.00	-15.08	peak
5	*	528.2458	52.07	-10.14	41.93	46.00	-4.07	peak
6	!	709.1823	47.59	-6.97	40.62	46.00	-5.38	peak

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

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

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<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.		

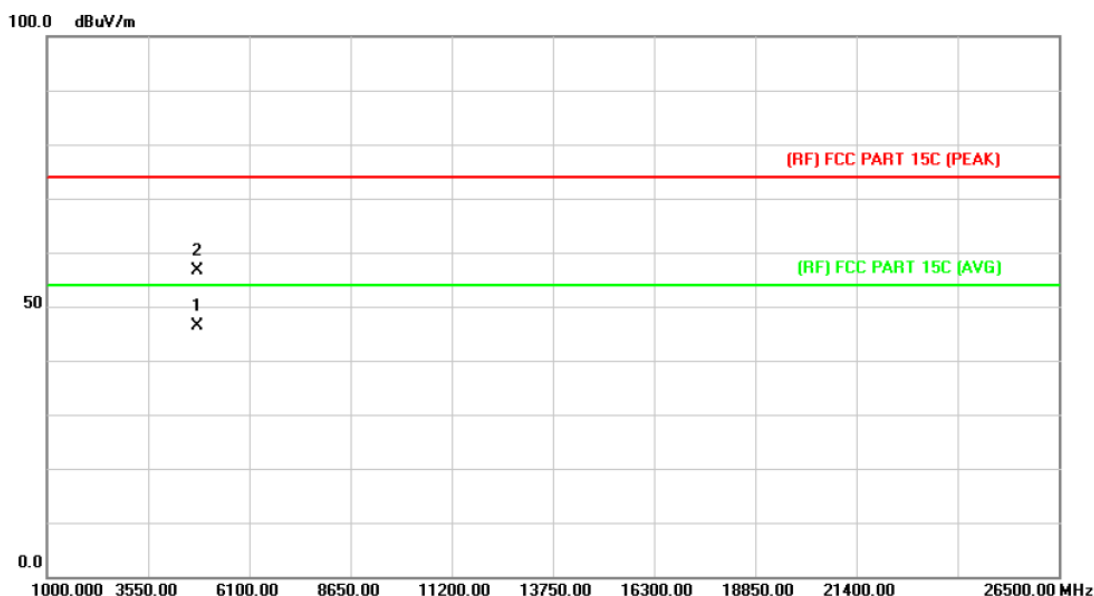


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4803.687	30.62	13.44	44.06	54.00	-9.94	AVG
2		4804.211	42.77	13.44	56.21	74.00	-17.79	peak

Emission Level= Read Level+ Correct Factor



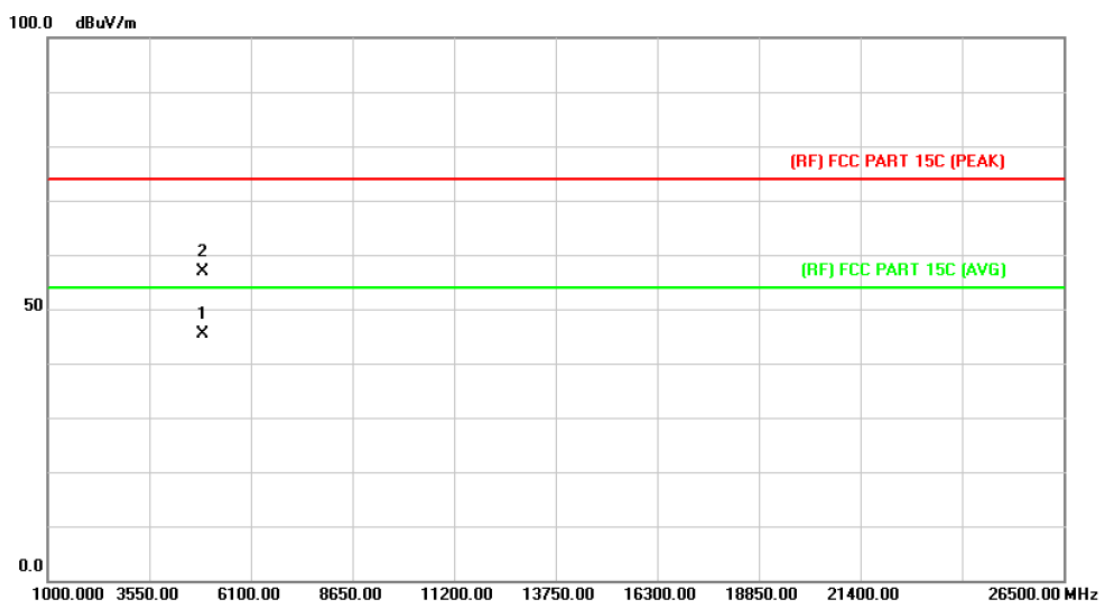
<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	BLE Mode TX 2402 MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	4803.784	32.91	13.44	46.35	54.00	-7.65	AVG
2		4804.317	43.10	13.44	56.54	74.00	-17.46	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<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.		

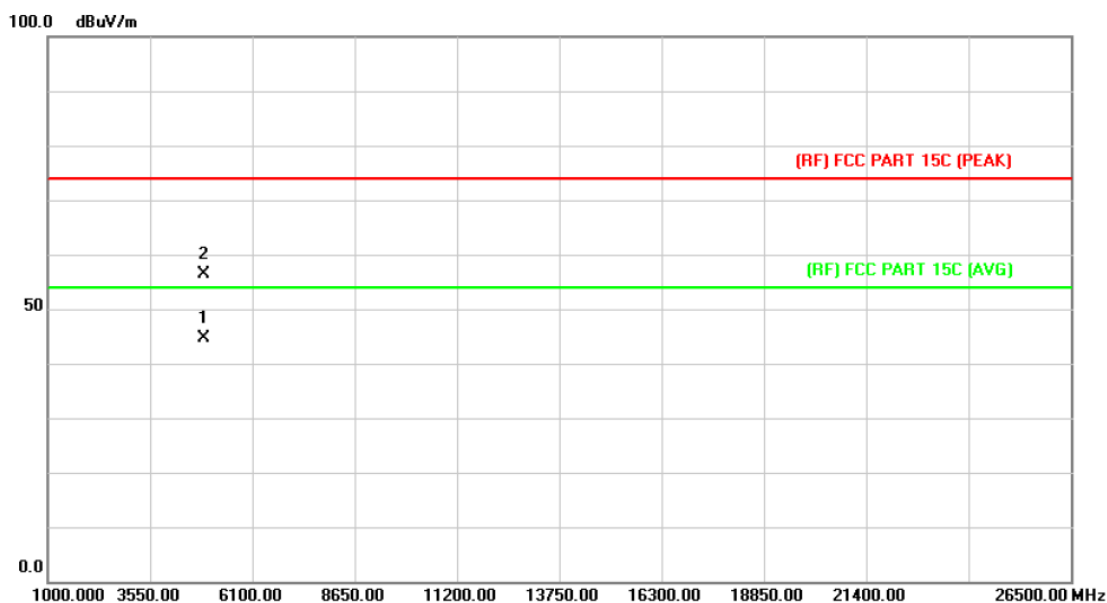


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4883.967	31.45	13.92	45.37	54.00	-8.63	AVG
2		4884.020	42.92	13.92	56.84	74.00	-17.16	peak

Emission Level= Read Level+ Correct Factor



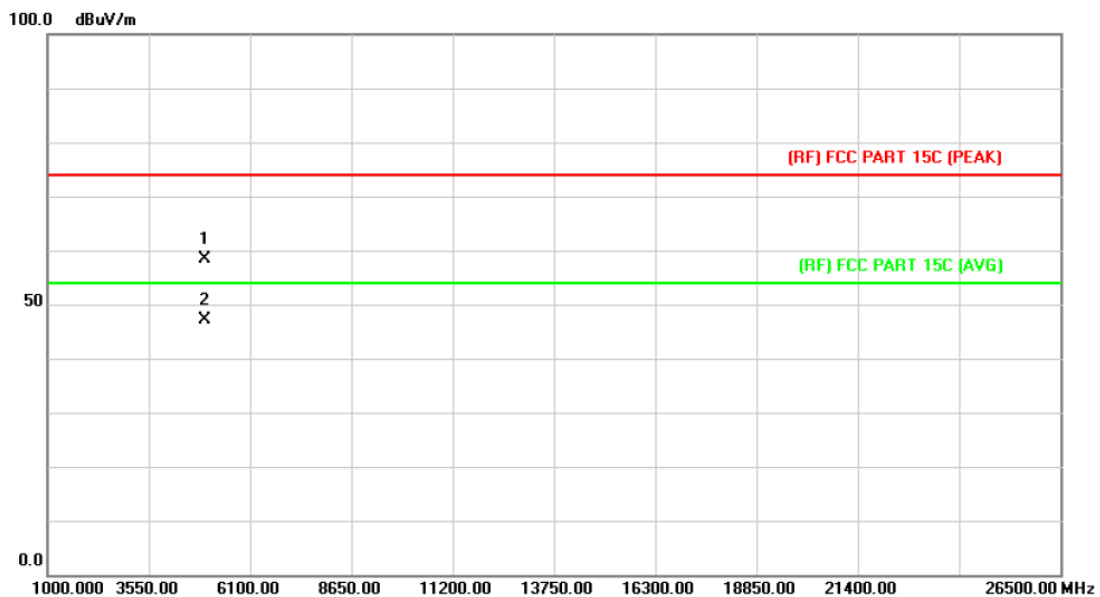
<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	BLE Mode TX 2442 MHz		
<b>Remark:</b>	No report for the emission which more than 10 dB below the prescribed limit.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4883.621	30.69	13.92	44.61	54.00	-9.39	AVG
2		4883.874	42.45	13.92	56.37	74.00	-17.63	peak

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<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.		

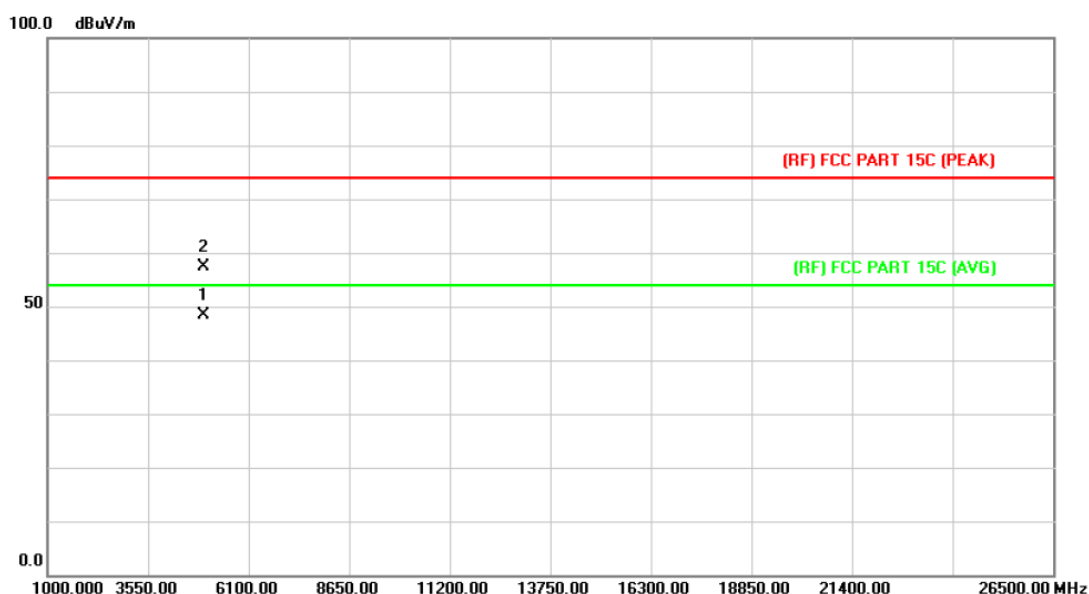


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		4959.367	43.98	14.36	58.34	74.00	-15.66	peak
2	*	4959.674	32.86	14.36	47.22	54.00	-6.78	AVG

Emission Level= Read Level+ Correct Factor



<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<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	*	4959.699	33.95	14.36	48.31	54.00	-5.69	AVG
2		4960.310	42.98	14.36	57.34	74.00	-16.66	peak

Emission Level= Read Level+ Correct Factor

## 6. Restricted Bands Requirement

### 6.1 Test Standard and Limit

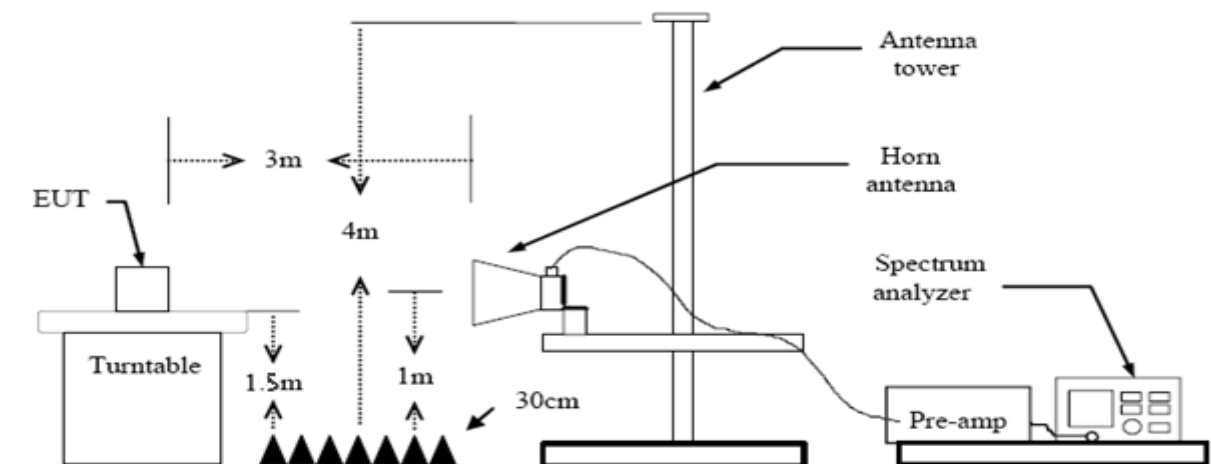
#### 6.1.1 Test Standard

FCC Part 15.209 FCC Part 15.205

#### 6.1.2 Test Limit

Restricted Frequency Band (MHz)	Class B (dBuV/m)(at 3 M)	
	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



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.

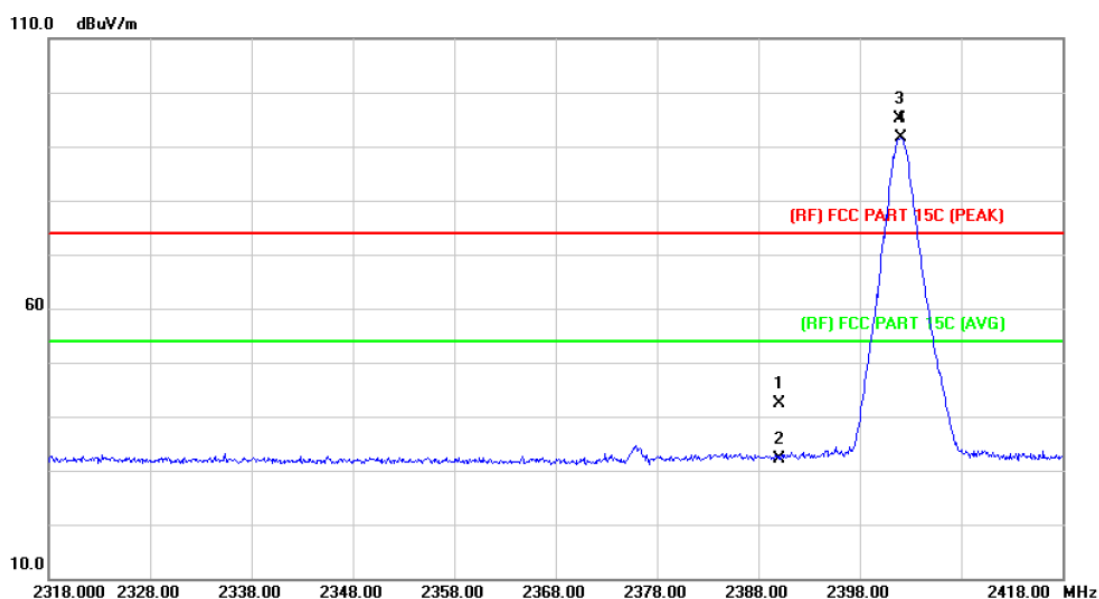
#### 6.5 Test Data

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=10kHz with Peak Detector for Average Values.

Test data please refer the following pages.

**(1) Radiation Test**

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<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		

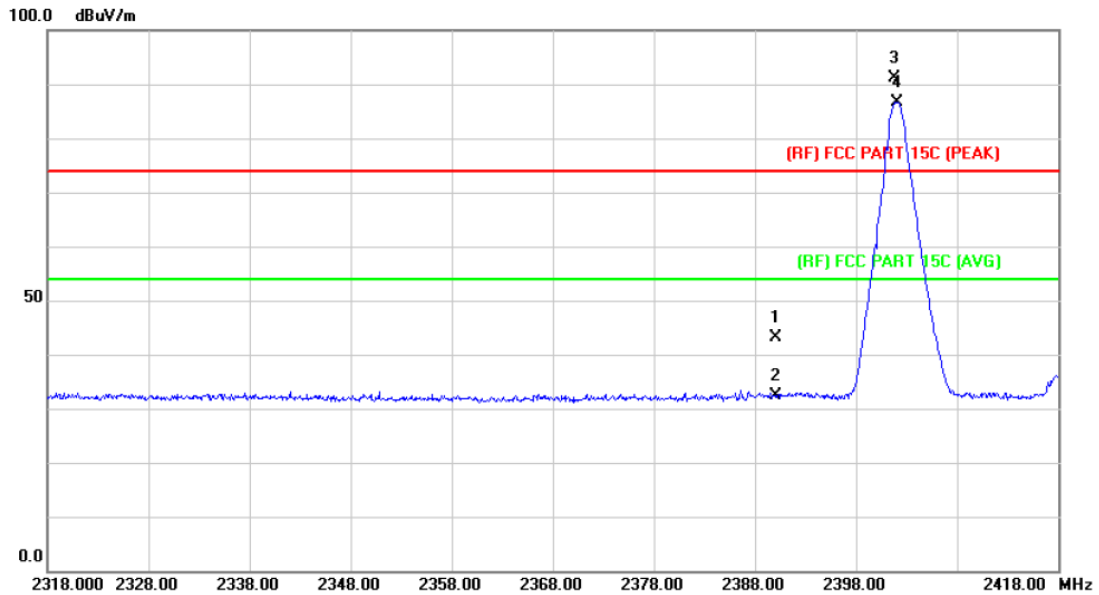


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		2390.000	41.55	0.77	42.32	74.00	-31.68 peak
2		2390.000	31.38	0.77	32.15	54.00	-21.85 AVG
3	X	2401.900	94.34	0.82	95.16	Fundamental Frequency peak	
4	*	2402.100	90.84	0.82	91.66	Fundamental Frequency AVG	

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



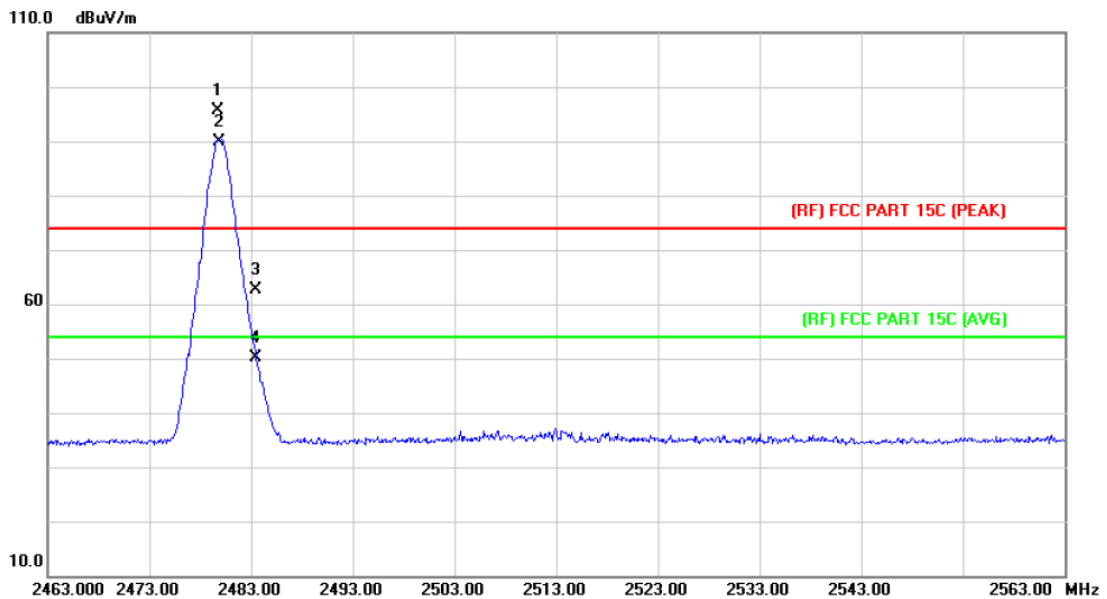
<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<b>Temperature:</b>	25 °C	<b>Relative Humidity:</b>	55%
<b>Test Voltage:</b>	AC 120V/60Hz		
<b>Ant. Pol.</b>	Vertical		
<b>Test Mode:</b>	BLE Mode TX 2402 MHz		
<b>Remark:</b>	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	42.35	0.77	43.12	74.00	-30.88	peak
2		2390.000	31.50	0.77	32.27	54.00	-21.73	AVG
3	X	2401.800	90.26	0.82	91.08	Fundamental Frequency		peak
4	*	2402.100	85.88	0.82	86.70	Fundamental Frequency		AVG

Emission Level= Read Level+ Correct Factor

<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<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		

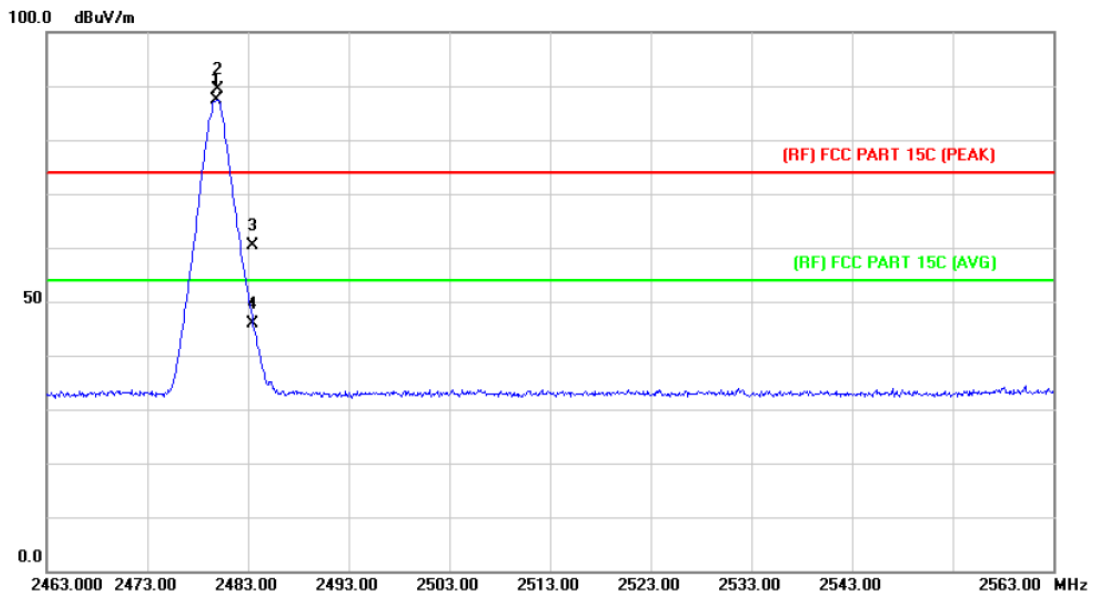


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2479.700	94.58	1.15	95.73	Fundamental Frequency		peak
2	*	2479.800	88.83	1.15	89.98	Fundamental Frequency		AVG
3		2483.500	61.44	1.17	62.61	74.00	-11.39	peak
4		2483.500	49.05	1.17	50.22	54.00	-3.78	AVG

Emission Level= Read Level+ Correct Factor



<b>EUT:</b>	iDISPLAY TABLET	<b>Model:</b>	UIT313B-U02
<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. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2479.800	86.33	1.15	87.48	Fundamental Frequency		AVG
2	X	2480.000	88.19	1.15	89.34	Fundamental Frequency		peak
3		2483.500	59.20	1.17	60.37	74.00	-13.63	peak
4		2483.500	44.59	1.17	45.76	54.00	-8.24	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 1.66 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 FPC 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