

**MEERA INTERNATIONAL LIMITED**

**7.85inch Tablet PC**

**Main Model: MT-785 IPS**

**Serial Model: NTB-785 IPS**

**March 20, 2014**

**Report No.: 14020106-FCC-R1**

**(This report supersedes NONE)**



**Modifications made to the product : None**

**This Test Report is Issued Under the Authority of:**

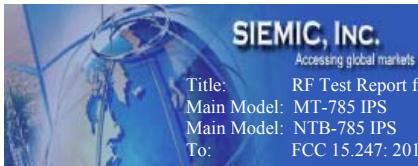
<b>Amos Xia</b> Compliance Engineer	<b>Alex Liu</b> Technical Manager	

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Test result presented in this test report is applicable to the representative sample only.**

**RF Test Report**

To: FCC Part 15.247: 2013, ANSI C63.4: 2009

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Title: RF Test Report for 7.85inch Tablet PC  
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## Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management through out a project. Our extensive experience with China, Asia Pacific, North America, European, and international compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

### Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC , RF/Wireless , Telecom
Canada	EMC, RF/Wireless , Telecom
Taiwan	EMC, RF, Telecom , Safety
Hong Kong	RF/Wireless ,Telecom
Australia	EMC, RF, Telecom , Safety
Korea	EMI, EMS, RF , Telecom, Safety
Japan	EMI, RF/Wireless, Telecom
Singapore	EMC , RF , Telecom
Europe	EMC, RF, Telecom , Safety



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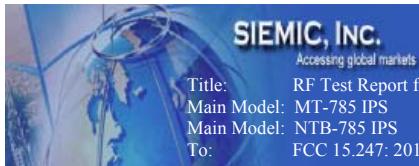
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## **1 EXECUTIVE SUMMARY & EUT INFORMATION**

**The purpose of this test programme was to demonstrate compliance of the MEERA INTERNATIONAL LIMITED, 7.85inch Tablet PC and model: MT-785 IPS against the current Stipulated Standards. The 7.85inch Tablet PC has demonstrated compliance with the FCC 15.247: 2013, ANSI C63.4: 2009.**

### **EUT Information**

<b>EUT Description</b>	<b>7.85inch Tablet PC</b>
<b>Main Model</b>	<b>MT-785 IPS</b>
<b>Serial Model</b>	<b>NTB-785 IPS</b>
<b>Antenna Gain</b>	<b>Bluetooth:0.39dBi WIFI: 0.42dBi</b>
<b>Input Power</b>	<b>Li-ion Battery: 3.7V 4000mAh POWER SUPPLY: Model: XHY050200UUCH Input: AC 100-240V 50/60Hz 0.5A MAX Output: DC 5.0V 2.0A</b>
<b>Classification Per Stipulated Test Standard</b>	<b>FCC 15.247: 2013, ANSI C63.4: 2009</b>

Note:the difference between these models please refer to the Annex E.

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## 2 TECHNICAL DETAILS

<b>Purpose</b>	Compliance testing of 7.85inch Tablet PC with stipulated standard
<b>Applicant / Client</b>	<b>MEERA INTERNATIONAL LIMITED</b> <b>301 Kam On Building, 176A Queen's Road Central, Central, Hong Kong, China</b>
<b>Manufacturer</b>	<b>Shenzhen Beneworld Technology Co. Ltd.</b> <b>Building 3, Huangtian Industrial Park, Xixiang, Baoan District, Shenzhen, Guangdong, China</b>
<b>Laboratory performing the tests</b>	<b>SIEMIC (Nanjing-China) Laboratories</b> <b>NO.2-1,Longcang Dadao, Yuhua Economic Development Zone,Nanjing, China</b> Tel:+86(25)86730128/86730129 Fax:+86(25)86730127 Email: China@siemic.com
<b>Test report reference number</b>	<b>14020106-FCC-R1</b>
<b>Date EUT received</b>	<b>February 21, 2014</b>
<b>Standard applied</b>	<b>FCC 15.247: 2013, ANSI C63.4: 2009</b>
<b>Dates of test (from – to)</b>	<b>March 17 to March 19, 2014</b>
<b>No of Units</b>	<b>#1</b>
<b>Equipment Category</b>	<b>DSS</b>
<b>Trade Name</b>	<b>N/A</b>
<b>RF Operating Frequency (ies)</b>	<b>802.11b/g/n: 2412-2462 MHz</b> <b>Bluetooth : 2402-2480 MHz</b>
<b>Number of Channels</b>	<b>Bluetooth: 79CH</b> <b>802.11b/g/n: 11CH</b>
<b>Modulation</b>	<b>802.11b/g/n: CCK/OFDM</b> <b>Bluetooth: GFSK&amp; <math>\pi/4</math>-DQPSK &amp;8DPSK</b>
<b>Port</b>	<b>Earphone Port, HDMI Port, USB Port</b>
<b>FCC ID</b>	<b>2AASXMTNTB785IPS</b>



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### **3 MODIFICATION**

N/A



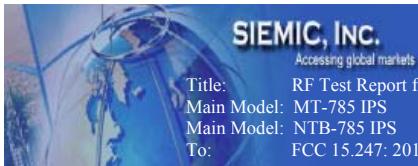
## 4 TEST SUMMARY

The product was tested in accordance with the following specifications.  
All testing has been performed according to below product classification:

### Spread Spectrum System/Device

#### Test Results Summary

Test Standard	Description	Product Class	Pass / Fail
§15.247(i), §2.1093	RF Exposure	See Above	Pass
§15.203	Antenna Requirement	See Above	Pass
§15.207(a)	AC Line Conducted Emissions	See Above	Pass
§15.205, §15.209, §15.247(d)	Radiated Emissions	See Above	Pass
§15.247(a)(1)	20 dB Bandwidth	See Above	Pass
§15.247(a)(1)	Channel Separation	See Above	Pass
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	See Above	Pass
§15.247(a)(1)(iii)	Quantity of Hopping Channel	See Above	Pass
§15.247(b)(1)	Peak Output Power	See Above	Pass
§15.247(d)	Band Edge	See Above	Pass



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## **5 MEASUREMENTS, EXAMINATION AND DERIVED RESULTS**

### **5.1 §15.247 (i) and §2.1093 – RF Exposure**

#### **Test Result: Pass**

The EUT is a portable device, thus requires SAR evaluation;  
please refer to SIEMIC RF Exposure Report: 14020106-FCC-H1



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## **5.2 §15.203 – Antenna Requirement**

### **Standard Requirement:**

According to § 15.203, 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

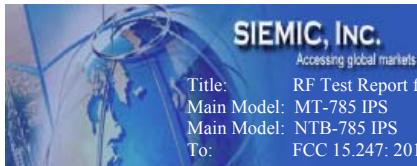
- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **Antenna Connector Construction**

The EUT has 2 antennas: . a monopole antenna for Bluetooth, the gain is 0.39 dBi;  
a monopole antenna for WIFI, the gain is 0.42 dBi  
which in accordance to section 15.203, please refer to the internal photos.

### **Test Result: Pass**



## **5.3 §15.207 (a) – AC Line Conducted Emissions**

### **Standard Requirement:**

<b>Frequency of emission (MHz)</b>	<b>Conducted limit (dB<math>\mu</math>V)</b>	
	<b>Quasi-peak</b>	<b>Average</b>
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

\*Decreases with the logarithm of the frequency.

### **Procedures:**

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
3. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is  $\pm 3.5$ dB.
4. Environmental Conditions  
Temperature  $20^{\circ}\text{C}$   
Relative Humidity 50%  
Atmospheric Pressure 1019mbar
5. Test date : March 17, 2014  
Tested By : Amos Xia

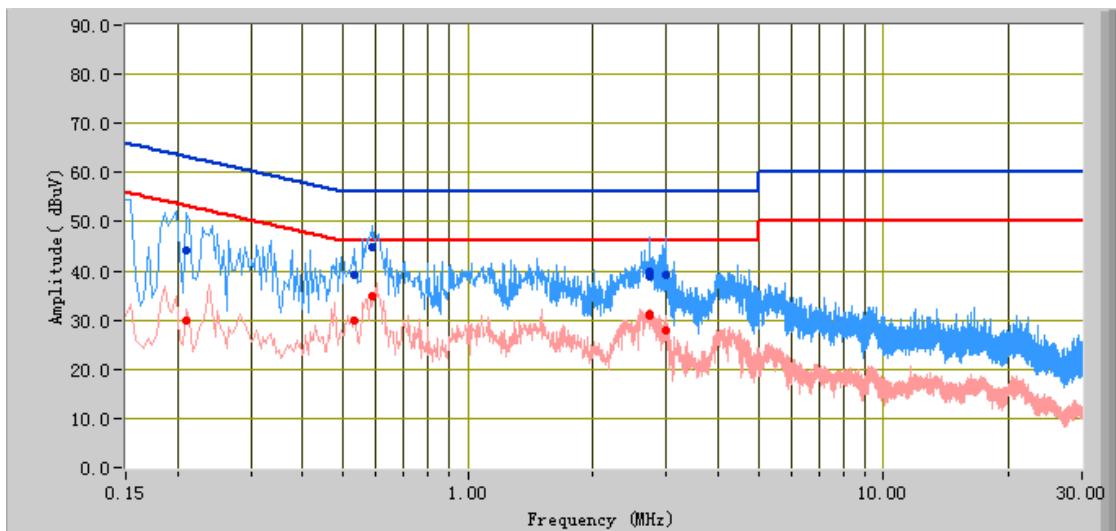
### **Test Result: Pass**

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**Test Mode:****Charging & GFSK Transmitting (Worse Case)****Peak Detector****Quasi Peak Limit****Average Detector****Average Limit**

## Test Data

### Phase Line Plot at 120V AC, 60Hz

Frequency (MHz)	Peak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Factors (dB)
0.59	44.98	56.00	-11.02	34.91	46.00	-11.09	11.02
2.73	39.84	56.00	-16.16	31.20	46.00	-14.80	10.88
3.00	39.29	56.00	-16.71	27.87	46.00	-18.13	10.88
2.74	38.73	56.00	-17.27	30.94	46.00	-15.06	10.88
0.21	44.25	63.20	-18.95	29.80	53.20	-23.41	11.51
0.53	39.24	56.00	-16.76	29.93	46.00	-16.07	11.06

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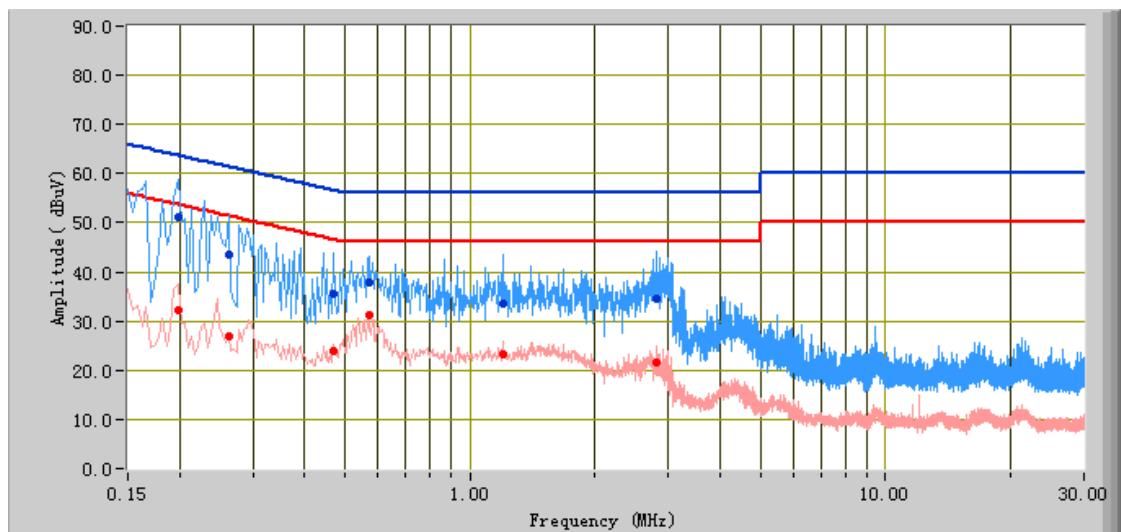
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**Test Mode: Charging & GFSK Transmitting (Worse Case)**

Peak Detector Quasi Peak Limit   
Average Detector Average Limit



### Test Data

**Phase Neutral Plot at 120V AC, 60Hz**

Frequency (MHz)	Peak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Average (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Factors (dB)
0.20	51.08	63.69	-12.62	32.30	53.69	-21.39	11.54
0.26	43.57	61.37	-17.80	27.06	51.37	-24.31	11.44
2.81	34.43	56.00	-21.57	21.69	46.00	-24.31	10.93
1.20	33.42	56.00	-22.58	23.37	46.00	-22.63	10.74
0.47	35.48	56.51	-21.04	23.81	46.51	-22.70	11.11
0.57	37.73	56.00	-18.27	31.23	46.00	-14.77	11.01



## 5.4 §15.209, §15.205 & §15.247(d) - Spurious Emissions

### **Standard Requirement:**

The emissions from the Low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges.

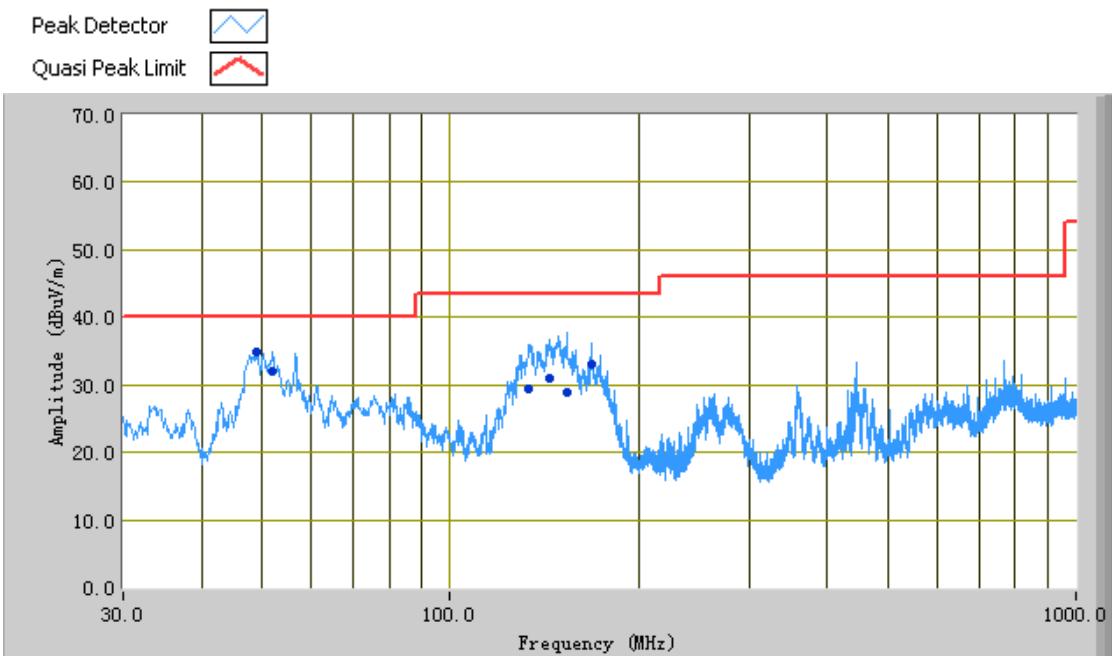
## Test Result: Pass

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**Test Mode: Charging & GFSK Transmitting (Worse Case)*****Below 1GHz*****Test Data****Horizontal & Vertical Polarity Plot @3m**

Frequency (MHz)	Peak (dBµV/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dBµV/m)	Margin (dB)
52.09	31.99	192.00	V	122.00	-34.13	40.00	-8.01
48.85	34.96	156.00	V	103.00	-32.41	40.00	-5.04
153.50	28.77	278.00	V	119.00	-31.75	43.50	-14.73
144.04	30.93	152.00	H	166.00	-32.16	43.50	-12.57
168.00	33.04	237.00	V	110.00	-31.80	43.50	-10.46
133.14	29.37	207.00	H	217.00	-32.17	43.50	-14.13

Note: Fast QP measurement performed, more than 20dB below limit so QP test data was not presented.

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<b>Test Mode:</b>	<b>GFSK Transmitting(Worse Case)</b>
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### *Above 1 GHz*

**Note: Other Bluetooth modes were verified; only the result of worst case DH5 mode was presented.**

#### Low Channel (2402 MHz)

Frequency (MHz)	S.A. Reading (dB $\mu$ V)	Detector (PK/AV)	Direction (degree)	Height (cm)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
4804.00	32.20	AV	121.00	100.00	V	33.83	3.30	24.00	45.33	54.00	-8.67
4804.00	33.34	AV	211.00	199.00	H	33.83	3.30	24.00	46.47	54.00	-7.53
4804.00	39.75	PK	121.00	100.00	V	33.83	3.30	24.00	52.88	74.00	-21.12
4804.00	39.94	PK	211.00	199.00	H	33.83	3.30	24.00	53.07	74.00	-20.93
5575.50	30.55	AV	155.00	120.00	V	34.29	3.80	24.00	44.64	54.00	-9.36
5575.50	31.27	AV	200.00	190.00	H	34.29	3.80	24.00	45.36	54.00	-8.64
5575.50	41.12	PK	155.00	120.00	V	34.29	3.80	24.00	55.21	74.00	-18.79
5575.50	42.75	PK	200.00	190.00	H	34.29	3.80	24.00	56.84	74.00	-17.16

#### Middle Channel (2441 MHz)

Frequency (MHz)	S.A. Reading (dB $\mu$ V)	Detector (PK/AV)	Direction (degree)	Height (cm)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
4880.00	31.28	AV	232.00	110.00	V	33.86	3.30	24.00	44.44	54.00	-9.56
4880.00	34.96	AV	19.00	210.00	H	33.86	3.30	24.00	48.12	54.00	-5.88
4880.00	40.50	PK	232.00	110.00	V	33.86	3.30	24.00	53.66	74.00	-20.34
4880.00	41.65	PK	19.00	210.00	H	33.86	3.30	24.00	54.81	74.00	-19.19
5564.50	30.21	AV	266.00	105.00	V	34.32	3.80	24.00	44.33	54.00	-9.67
5564.50	32.22	AV	236.00	200.00	H	34.32	3.80	24.00	46.34	54.00	-7.66
5564.50	41.37	PK	266.00	105.00	V	34.32	3.80	24.00	55.49	74.00	-18.51
5564.50	41.24	PK	236.00	200.00	H	34.32	3.80	24.00	55.36	74.00	-18.64

#### High Channel (2480 MHz)

Frequency (MHz)	S.A. Reading (dB $\mu$ V)	Detector (PK/AV)	Direction (degree)	Height (cm)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
4960.00	33.54	AV	98.00	102.00	V	33.90	3.30	24.00	46.74	54.00	-7.26
4960.00	35.93	AV	220.00	188.00	H	33.90	3.30	24.00	49.13	54.00	-4.87
4960.00	40.65	PK	98.00	102.00	V	33.90	3.30	24.00	53.85	74.00	-20.15
4960.00	41.69	PK	220.00	188.00	H	33.90	3.30	24.00	54.89	74.00	-19.11
5592.50	31.45	AV	330.00	121.00	V	34.35	3.80	24.00	45.60	54.00	-8.40
5592.50	31.84	AV	246.00	200.00	H	34.35	3.80	24.00	45.99	54.00	-8.01
5592.50	42.09	PK	330.00	121.00	V	34.35	3.80	24.00	56.24	74.00	-17.76
5592.50	43.11	PK	246.00	200.00	H	34.35	3.80	24.00	57.26	74.00	-16.74

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## **§15.247(a) (1)-Channel Separation**

### 1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.  
The spectrum analyzer was connected to the antenna terminal.

### 2. Environmental Conditions

Temperature	20°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar

### 3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is  $\pm 1.5$ dB.

### 4. Test date : March 17, 2014

Tested By : Amos Xia

### **Standard Requirement:**

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

### **Procedures:**

1. Place the EUT on the table and set it in hopping function transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = middle of hopping channel.
4. Set the spectrum analyzer as Resolution (or IF) Bandwidth (RBW)  $\geq 1\%$  of the span, Video (or Average) Bandwidth (VBW)  $\geq$  RBW, Sweep = auto, Detector function = peak, Trace = max hold.
5. Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

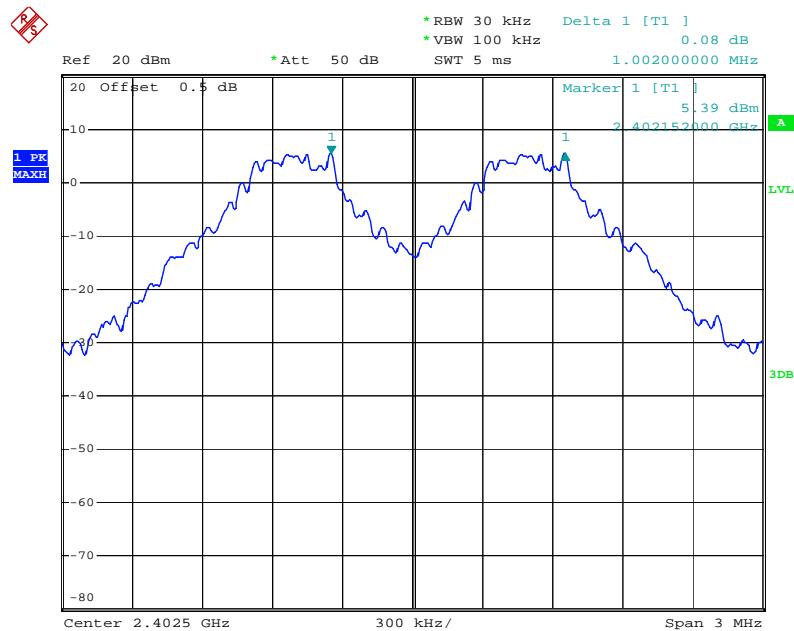
### **Test Result: Pass**

Test Mode:	GFSK Transmitting			
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Channel	Channel Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
Low Channel	2402	1.002	0.701	Pass
Adjacency Channel	2403			
Mid Channel	2440	1.002	0.693	Pass
Adjacency Channel	2441			
High Channel	2480	1.002	0.685	Pass
Adjacency Channel	2479			

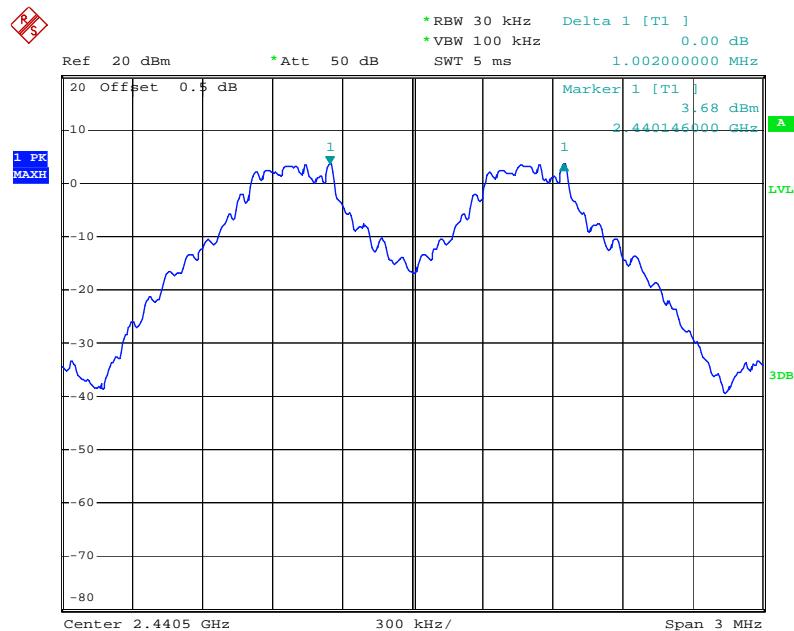
Please refer to the following plots.

### Low Channel



Date: 17.MAR.2014 03:49:46

### Middle Channel



Date: 17.MAR.2014 04:20:58



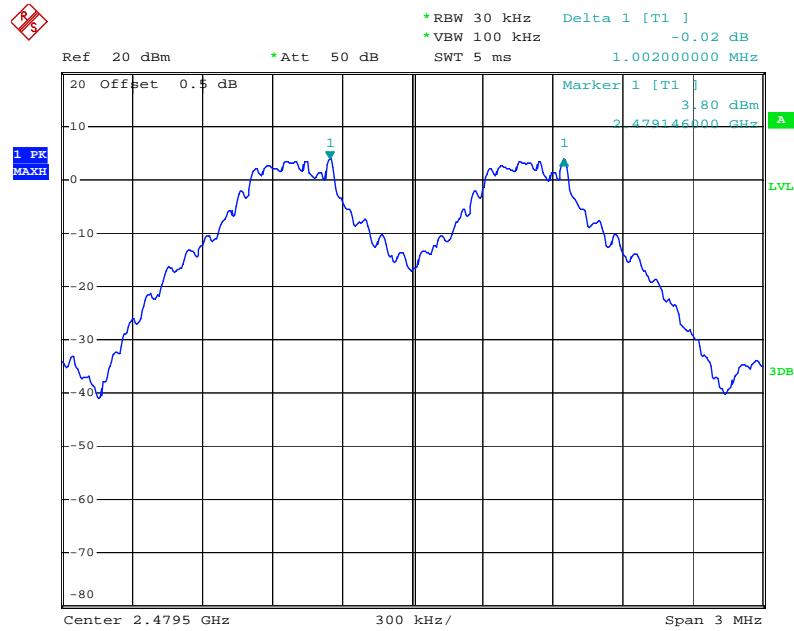
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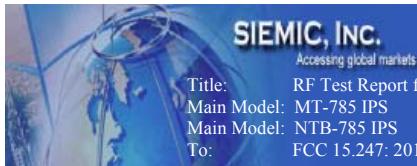
Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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## High Channel



Date: 17.MAR.2014 04:24:58



Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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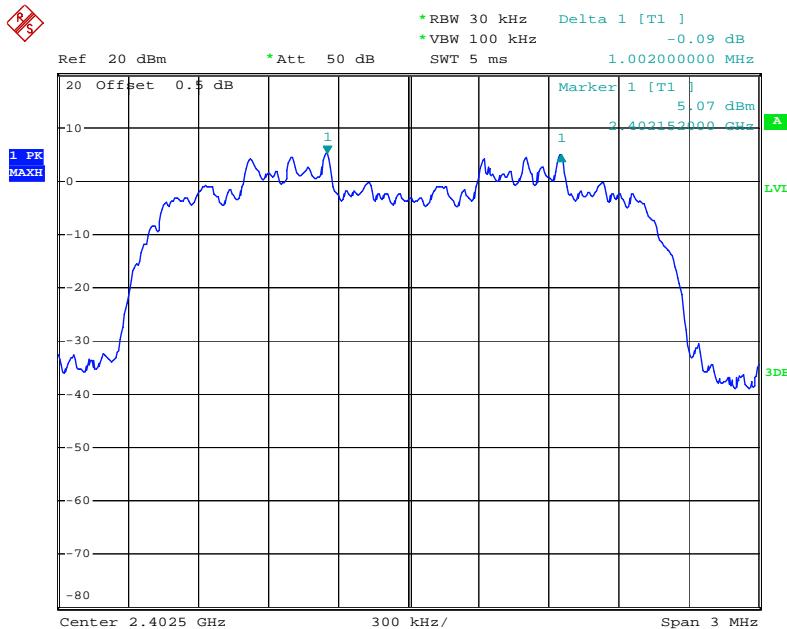
**Test Mode:**

**$\pi/4$ -DQPSK Transmitting**

Channel	Channel Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
Low Channel	2402	1.002	0.864	Pass
Adjacency Channel	2403			
Mid Channel	2440	1.002	0.859	Pass
Adjacency Channel	2441			
High Channel	2480	1.002	0.859	Pass
Adjacency Channel	2479			

Please refer to the following plots.

### Low Channel



Date: 17.MAR.2014 04:44:19



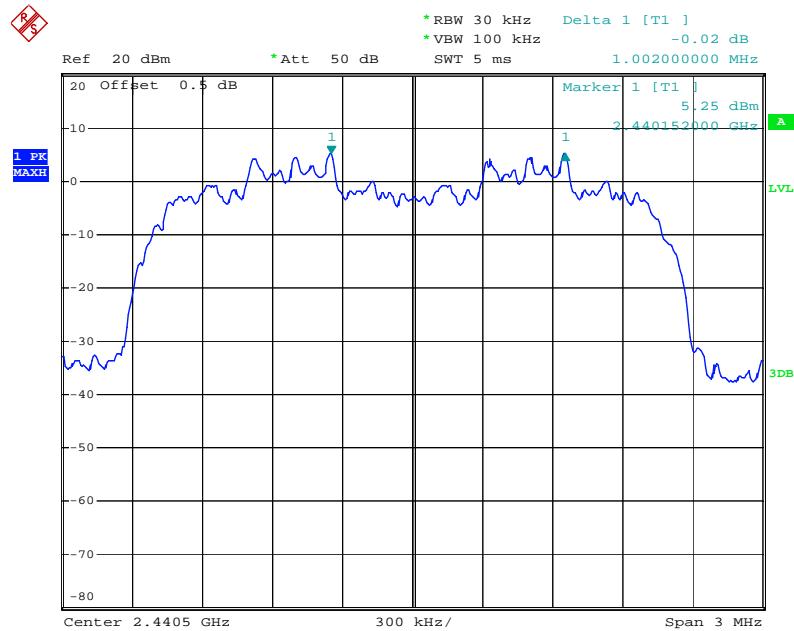
**SIEMIC, INC.**

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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

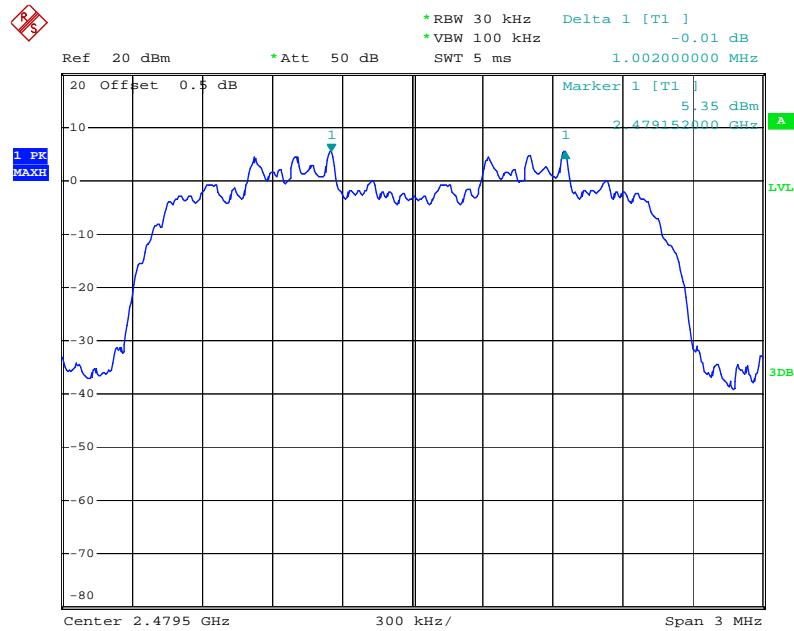
Report No: 14020106-FCC-R1  
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## Middle Channel



Date: 17.MAR.2014 04:57:50

## High Channel



Date: 17.MAR.2014 05:02:20

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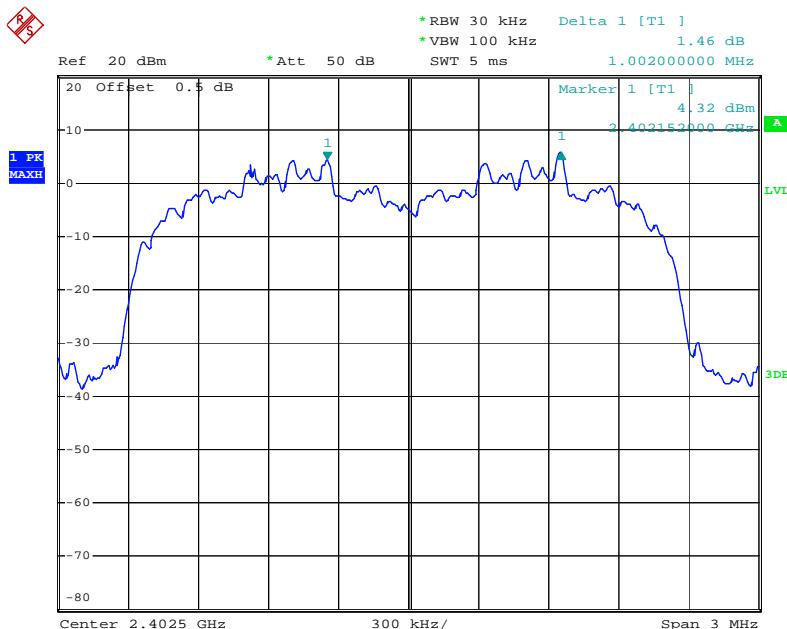
Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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**Test Mode: 8DPSK Transmitting**

Channel	Channel Frequency (MHz)	Channel Separation (MHz)	Limit (MHz)	Result
Low Channel	2402	1.002	0.859	Pass
Adjacency Channel	2403			
Mid Channel	2440	1.002	0.859	Pass
Adjacency Channel	2441			
High Channel	2480	1.002	0.864	Pass
Adjacency Channel	2479			

Please refer to the following plots.

**Low Channel**

Date: 17.MAR.2014 05:32:47



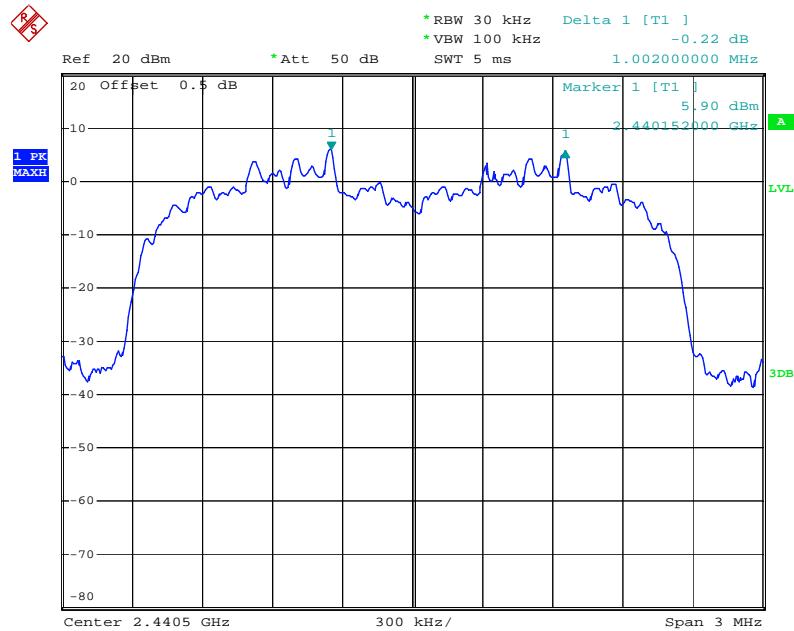
**SIEMIC, INC.**

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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

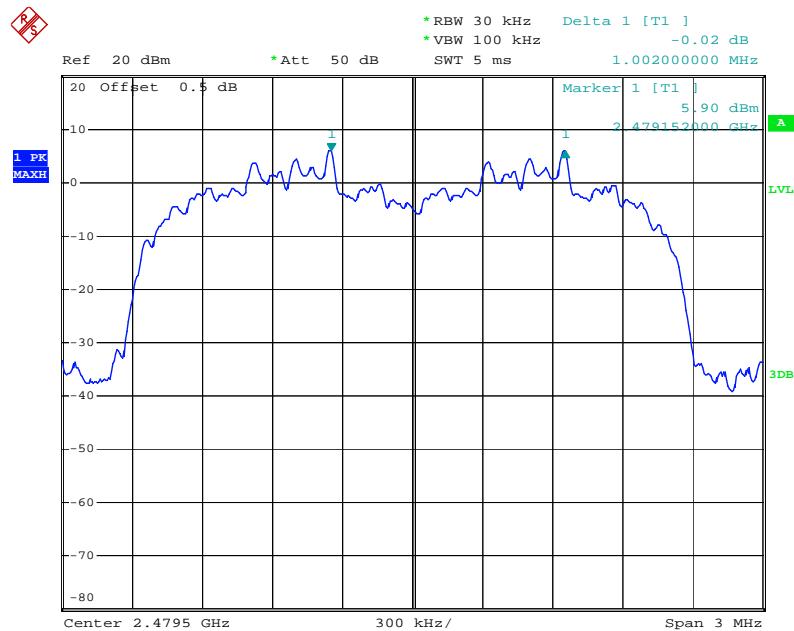
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## Middle Channel



Date: 17.MAR.2014 05:11:35

## High Channel



Date: 17.MAR.2014 05:08:47

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Accessing global markets

Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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## **§15.247(a) (1) – 20dB Bandwidth**

### 1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power. The spectrum analyzer was connected to the antenna terminal.

### 2. Environmental Conditions

Temperature	20°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar

### 3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is  $\pm 1.5$ dB.

### 4. Test date : March 18, 2014

Tested By : Amos Xia

### **Standard Requirement:**

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

### **Procedures:**

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel,  $RBW \geq 1\%$  of the 20 dB bandwidth,  $VBW \geq RBW$ , Sweep = auto, Detector function = peak, Trace = max hold.
4. Set the measured low, middle and high frequency and test 20dB bandwidth with spectrum analyzer.

### **Test Result: Pass**

<b>Test Mode:</b>	<b>GFSK Transmitting</b>
-------------------	--------------------------

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	1.052
Middle	2441	1.040
High	2480	1.028

Please refer to the following plots.

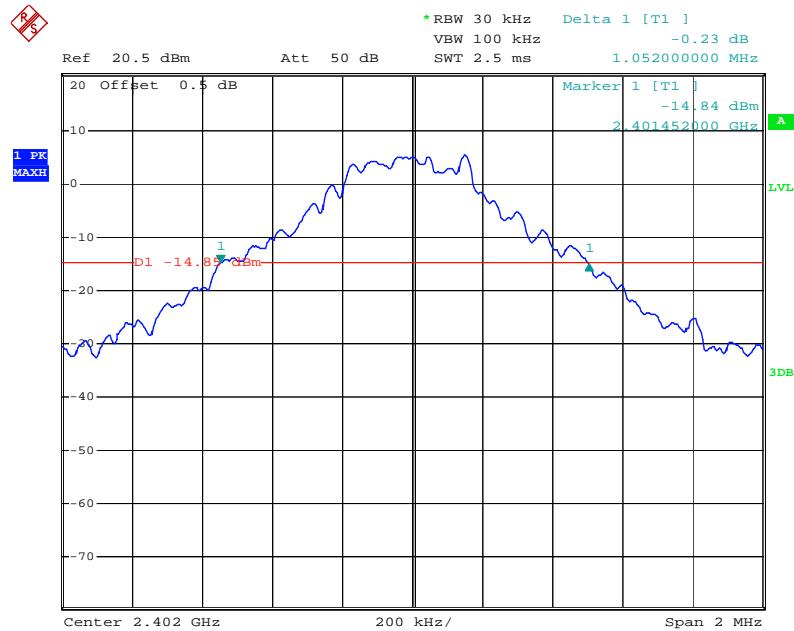
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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

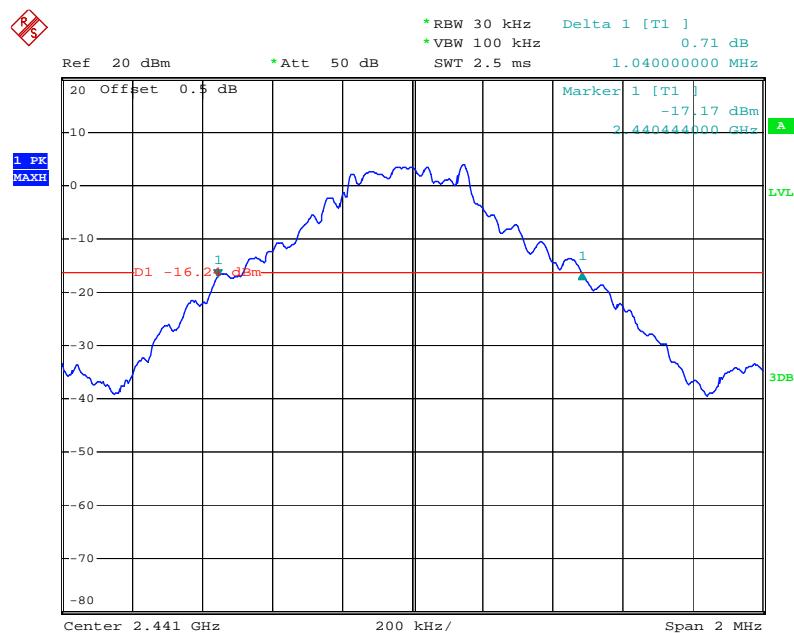
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### Low Channel



Date: 17.MAR.2014 03:39:09

### Middle Channel



Date: 17.MAR.2014 04:18:05



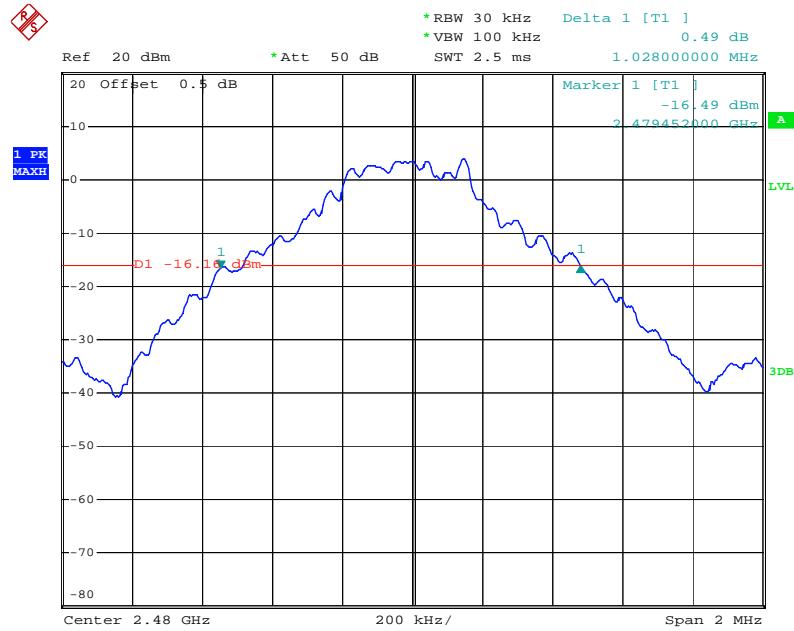
**SIEMIC, INC.**

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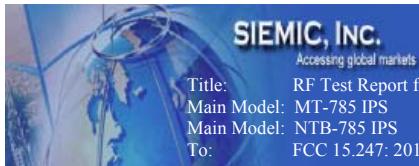
Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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## High Channel



Date: 17.MAR.2014 04:25:48



Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

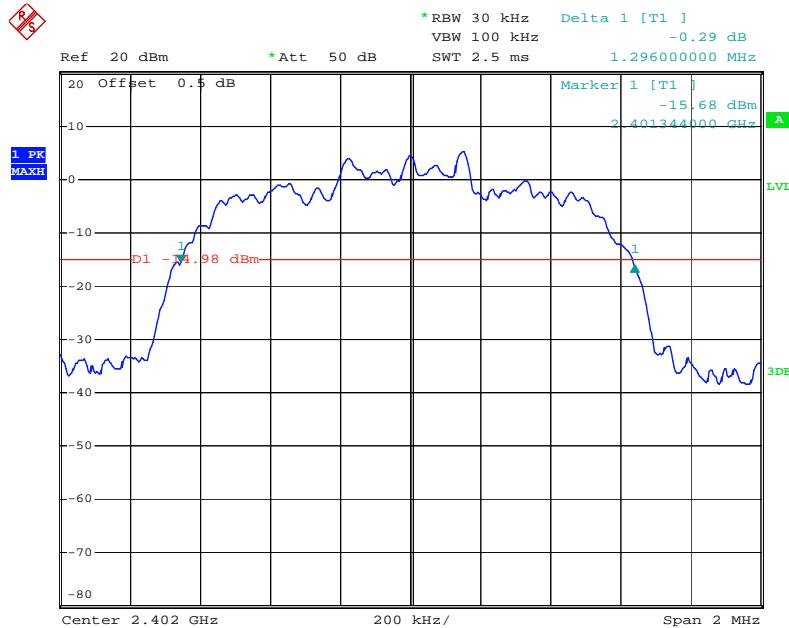
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**Test Mode:  $\pi/4$ -DQPSK Transmitting**

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	1.296
Middle	2441	1.288
High	2480	1.288

Please refer to the following plots.

### Low Channel



Date: 17.MAR.2014 04:34:46



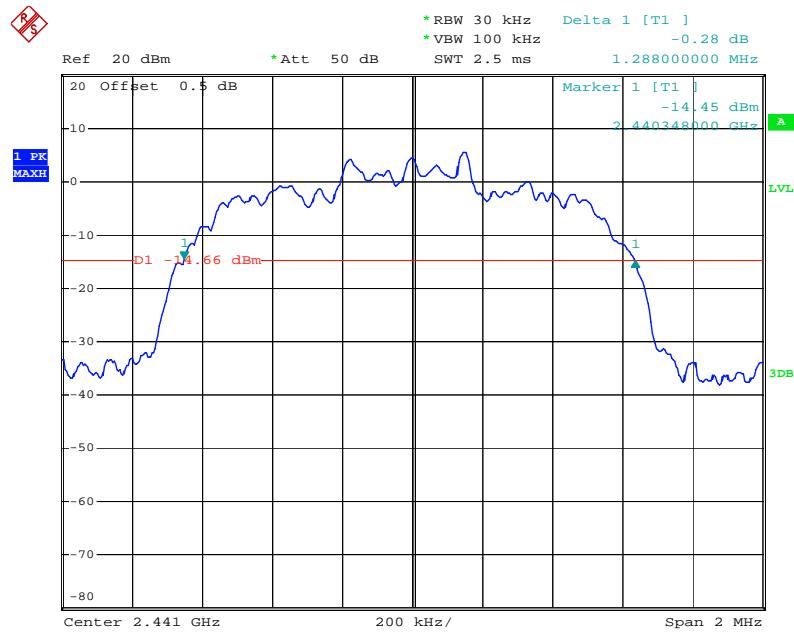
**SIEMIC, INC.**

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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

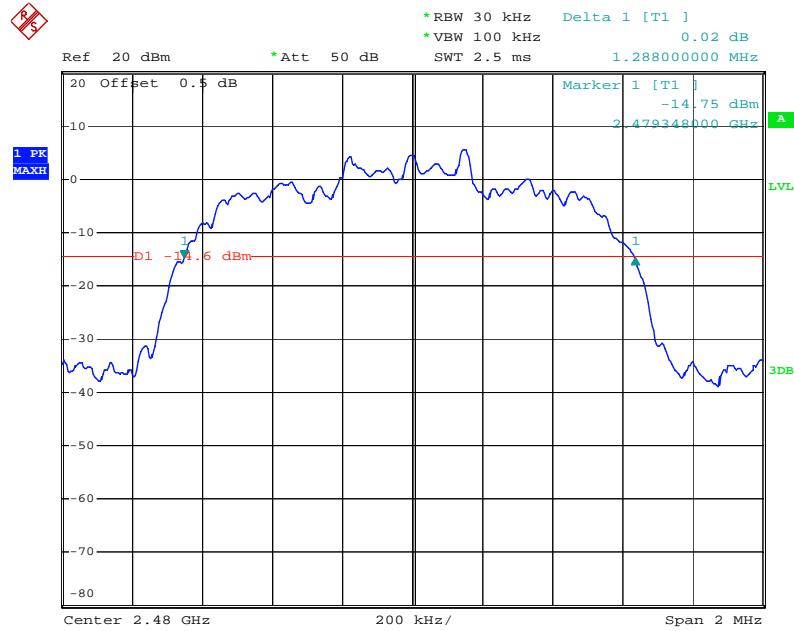
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## Middle Channel

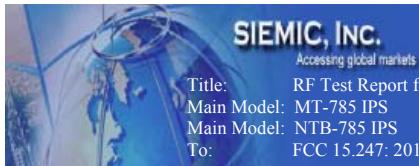


Date: 17.MAR.2014 04:58:53

## High Channel



Date: 17.MAR.2014 05:03:04



Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

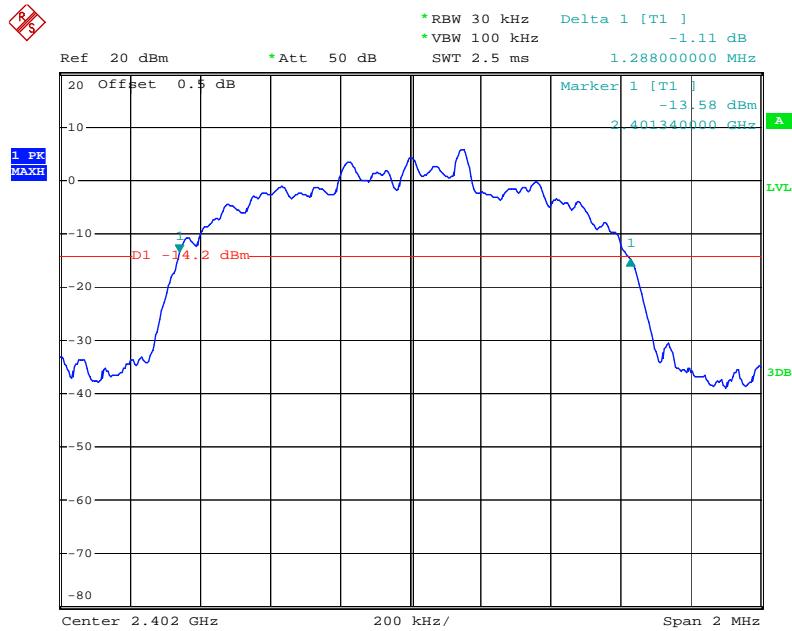
Report No: 14020106-FCC-R1  
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**Test Mode: 8DPSK Transmitting**

Channel	Frequency (MHz)	20 dB Bandwidth (MHz)
Low	2402	1.288
Middle	2441	1.288
High	2480	1.296

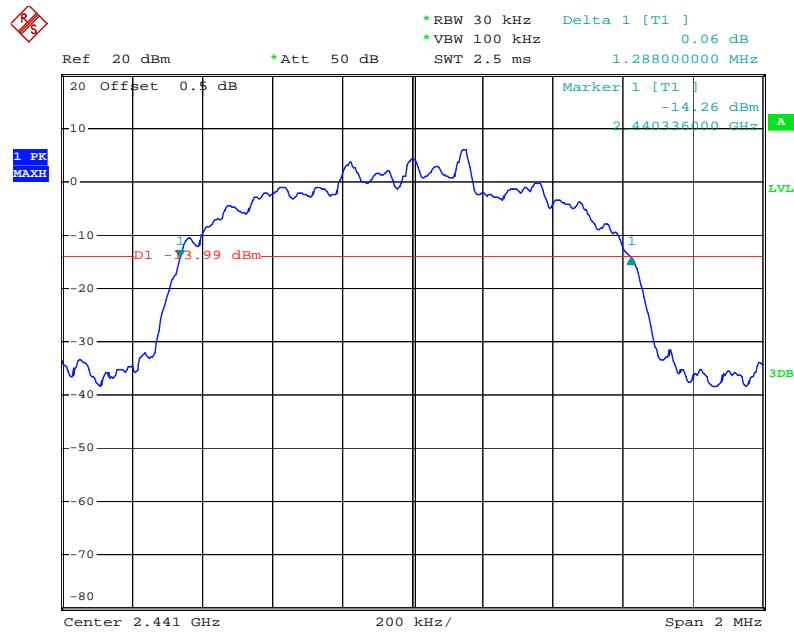
Please refer to the following plots.

#### Low Channel



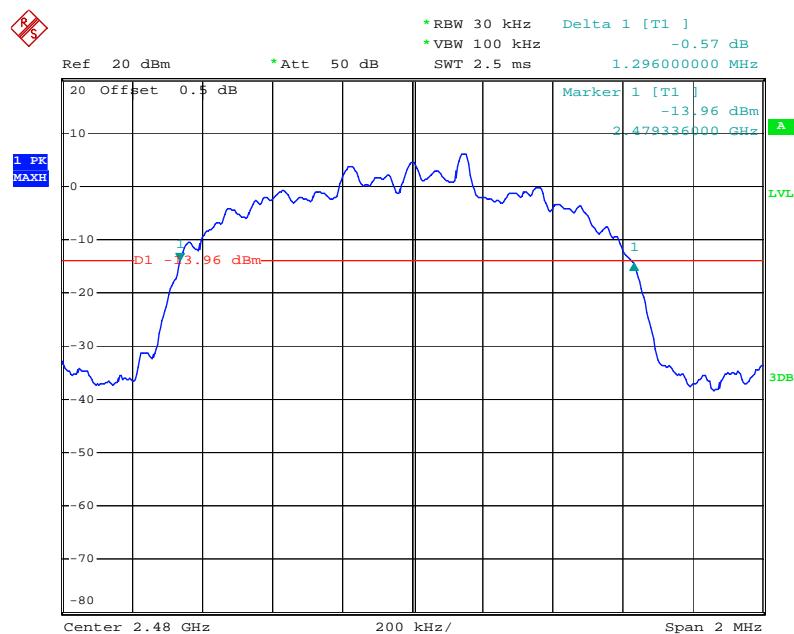
Date: 17.MAR.2014 05:34:47

### Middle Channel



Date: 17.MAR.2014 05:12:19

### High Channel



Date: 17.MAR.2014 05:06:58

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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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## **5.5 §15.247(a) (1) (iii)-Number of Hopping Channels**

1. Conducted Measurement  
EUT was set for low, mid, high channel with modulated mode and highest RF output power.  
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is  $\pm 1.5\text{dB}$ .
3. Environmental Conditions  

Temperature	20°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
4. Test date : March19, 2014  
Tested By : Amos Xia

### **Standard Requirement:**

According to §15.247(a)(1)(iii), Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

### **Procedures:**

1. Place the EUT on the table and set it in hopping function transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Start=2400MHz, Stop = 2483.5MHz, Span = the frequency band of operation, RBW  $\geq 1\%$  of the span, VBW  $\geq$  RBW, Sweep = auto, Detector function = peak, Trace = max hold.
4. Count the quantity of peaks to get the number of hopping channels.

### **Test Result: Pass**

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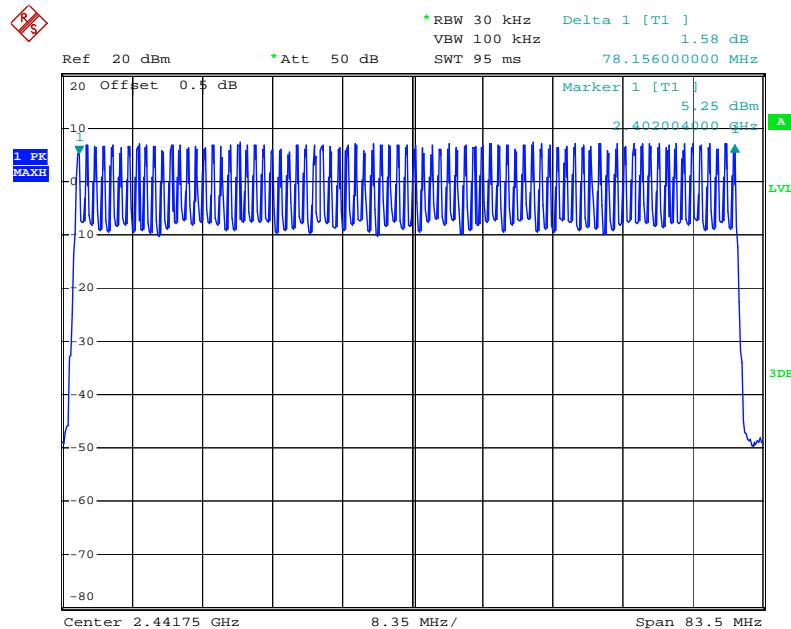
Accessing global markets

Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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**Test Mode:****Hopping Mode With GFSK Modulation**

Frequency Range (MHz)	Number of Hopping Channels	Limit
2400-2483.5	79	≥15

**Please refer to following tables and plots****Number of Hopping Channels**

Date: 19.MAR.2014 03:07:00



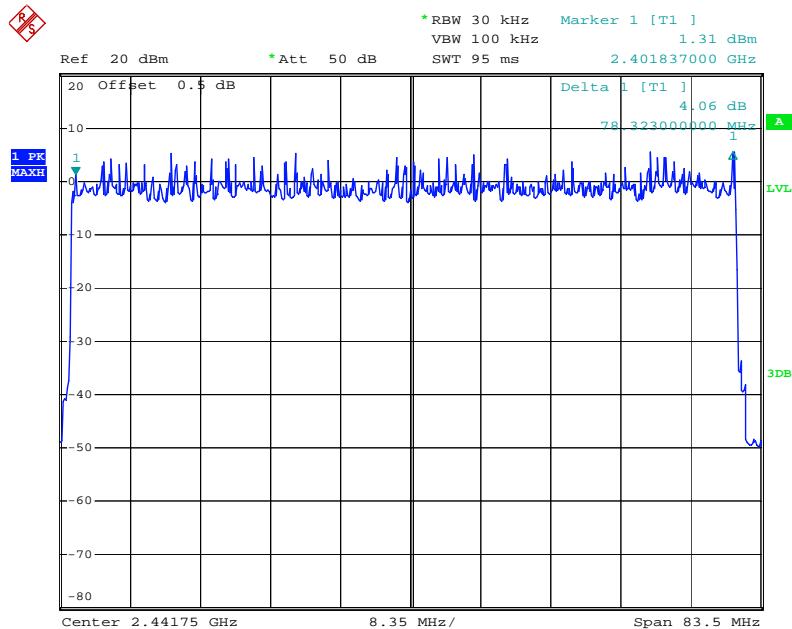
## Test Mode:

## Hopping Mode With $\pi/4$ -DQPSK Modulation

Frequency Range (MHz)	Number of Hopping Channels	Limit
2400-2483.5	79	≥15

**Please refer to following tables and plots**

## Number of Hopping Channels



Date: 19.MAR.2014 03:21:26

**SIEMIC, INC.**

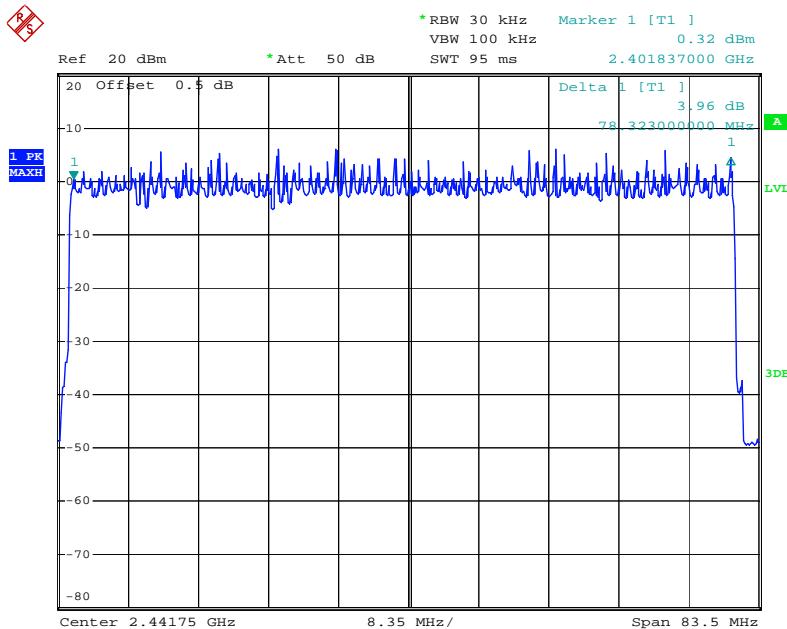
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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

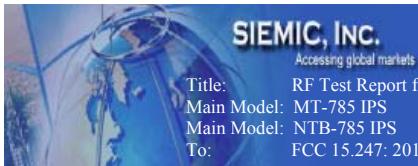
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**Test Mode:****Hopping Mode With 8DPSK Modulation**

Frequency Range (MHz)	Number of Hopping Channels	Limit
2400-2483.5	79	≥15

**Please refer to following tables and plots****Number of Hopping Channels**

Date: 19.MAR.2014 03:17:23



## **5.6 §15.247(a) (1) (iii) -Time of Occupancy (Dwell Time)**

1. Conducted Measurement  
EUT was set for low, mid, high channel with modulated mode and highest RF output power.  
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is  $\pm 1.5\text{dB}$ .
3. Environmental Conditions  

Temperature	20°C
Relative Humidity	50%
Atmospheric Pressure	1019mbar
4. Test date : March 17, 2014  
Tested By : Amos Xia

### **Standard Requirement:**

According to §15.247(a)(1)(iii), The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

### **Procedures:**

1. Place the EUT on the table and set it in transmitting mode and switch on frequency hopping function.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Span = zero span, centered on a hopping channel,  
RBW=1MHz, VBW  $\geq$  RBW, Sweep = as necessary to capture the entire dwell time per hopping channel, Detector function = peak, Trace = max hold.
4. Calculate the time of occupancy in a period with time occupancy of a burst and quantity of bursts.

### **Test Result: Pass**

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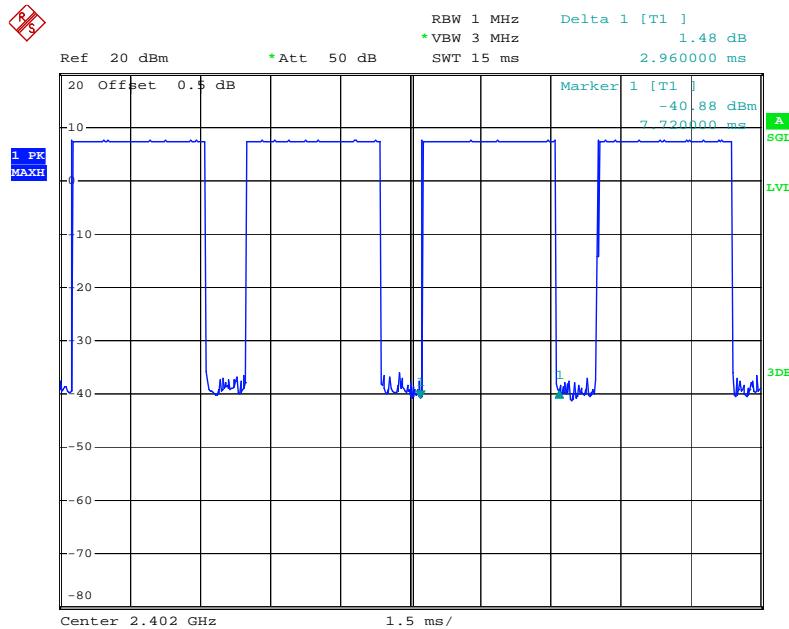
Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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**Test Mode:****Hopping Mode With GFSK Modulation**

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH 5	Low	2.960	0.31573	0.4	Pass
	Middle	2.970	0.31680	0.4	Pass
	High	2.970	0.31680	0.4	Pass
	<b>Note:</b> Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6 Second				

Please refer to the following plots.

**Low Channel for DH5**

Date: 17.MAR.2014 03:43:21

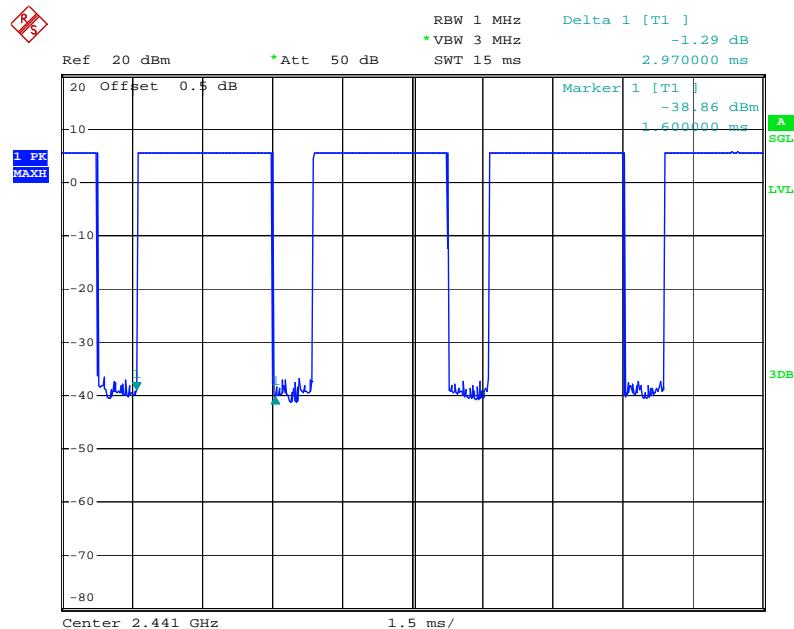
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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

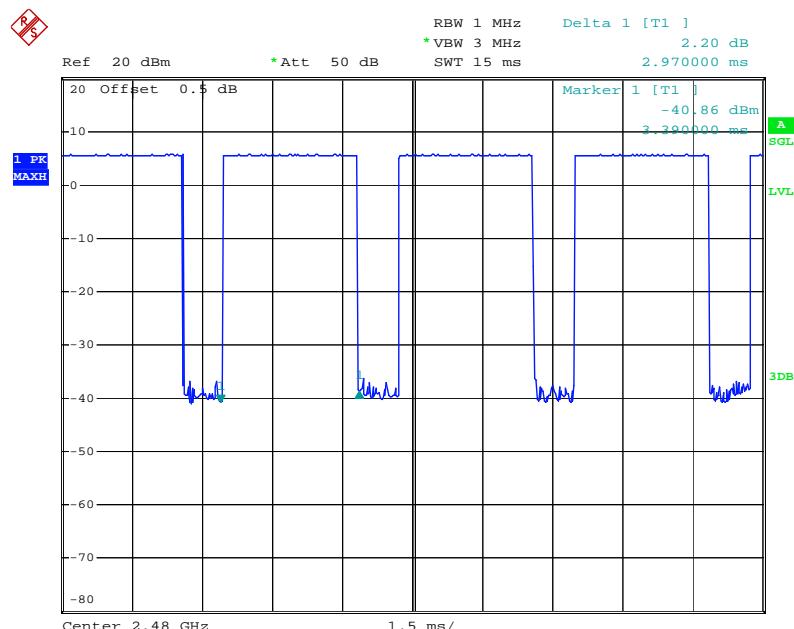
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### Middle Channel for DH5



Date: 17.MAR.2014 04:19:14

### High Channel for DH5



Date: 17.MAR.2014 04:26:52

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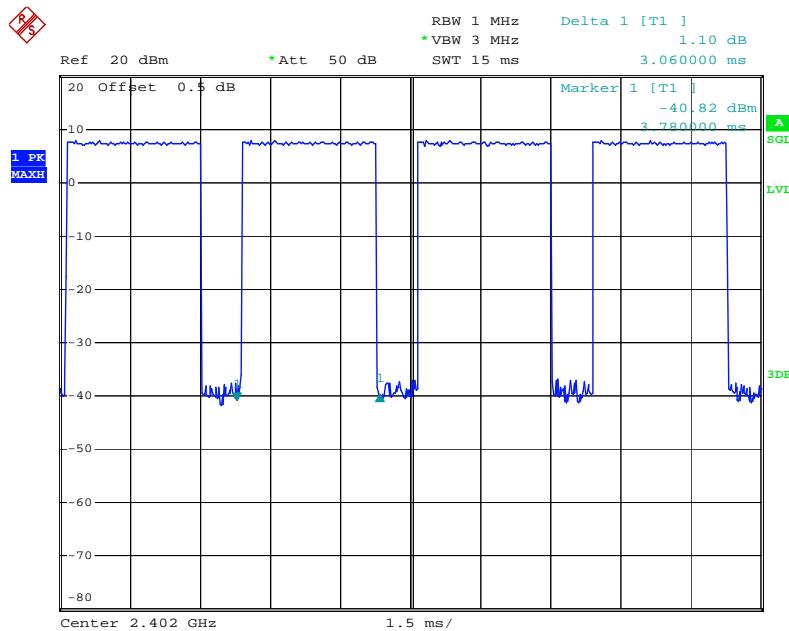
Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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**Test Mode:****Hopping Mode With  $\pi/4$ -DQPSK Modulation**

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH 5	Low	3.060	0.32640	0.4	Pass
	Middle	2.970	0.31680	0.4	Pass
	High	2.970	0.31680	0.4	Pass
	<b>Note:</b> Dwell time=Pulse Time (ms) $\times$ (1600 $\div$ 6 $\div$ 79) $\times$ 31.6 Second				

Please refer to the following plots.

**Low Channel for DH5**

Date: 17.MAR.2014 04:32:17

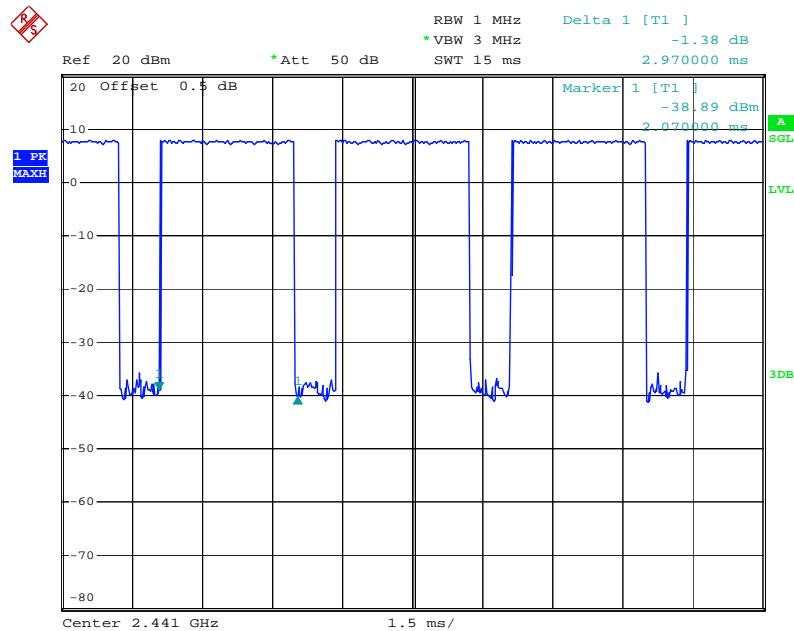
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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

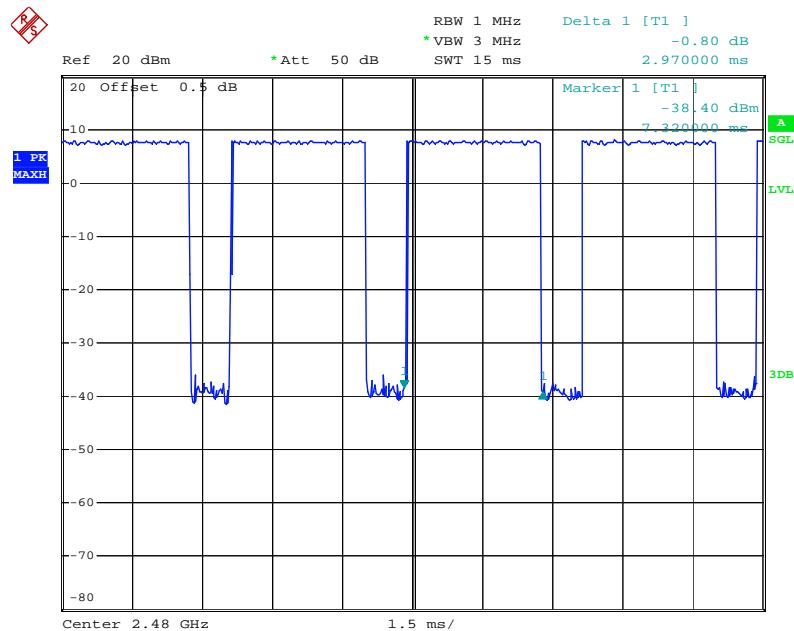
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### Middle Channel for DH5



Date: 17.MAR.2014 04:59:43

### High Channel for DH5



Date: 17.MAR.2014 05:03:57

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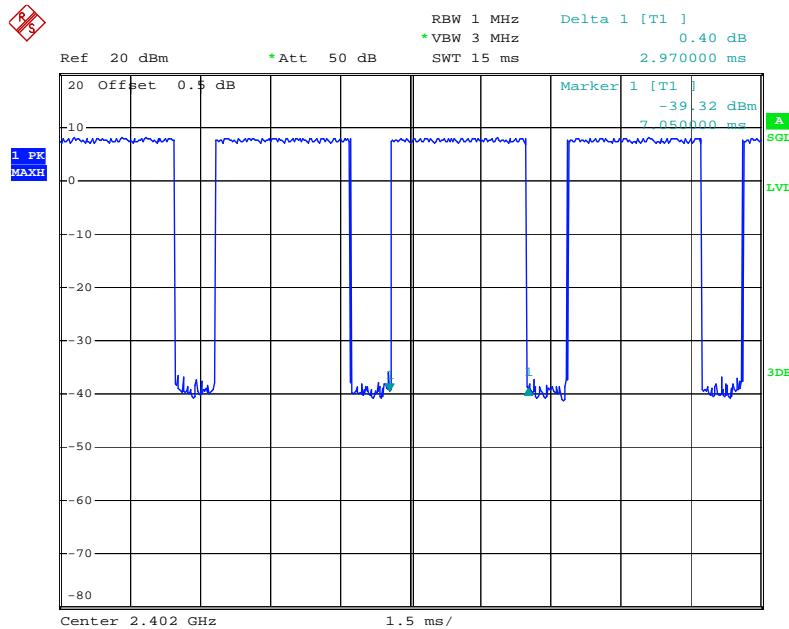
Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

Report No: 14020106-FCC-R1  
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**Test Mode:****Hopping Mode With 8DPSK Modulation**

Mode	Channel	Pulse Width (ms)	Dwell Time (s)	Limit (s)	Result
DH 5	Low	2.970	0.31680	0.4	Pass
	Middle	3.000	0.32000	0.4	Pass
	High	3.000	0.32000	0.4	Pass
	<b>Note:</b> Dwell time=Pulse Time (ms) × (1600 ÷ 6 ÷ 79) ×31.6 Second				

Please refer to the following plots.

**Low Channel for DH5**

Date: 17.MAR.2014 05:35:34

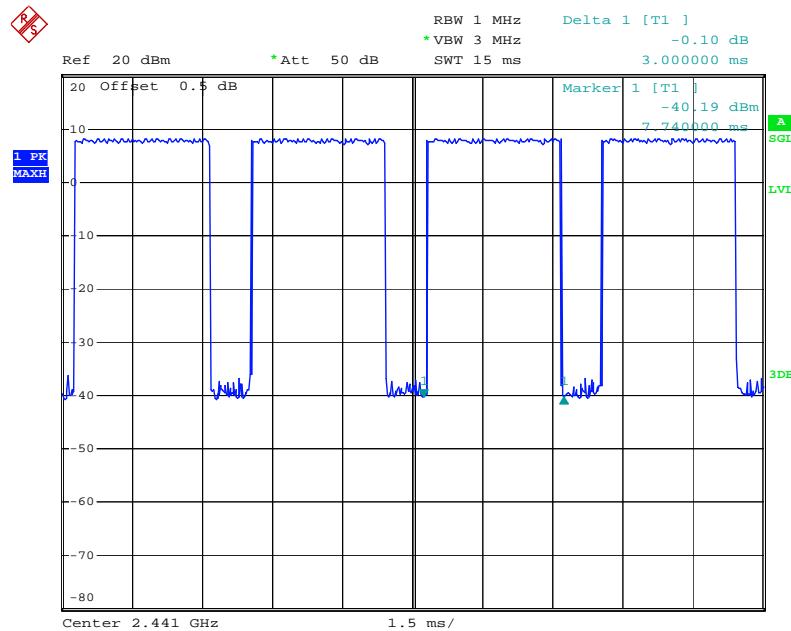
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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

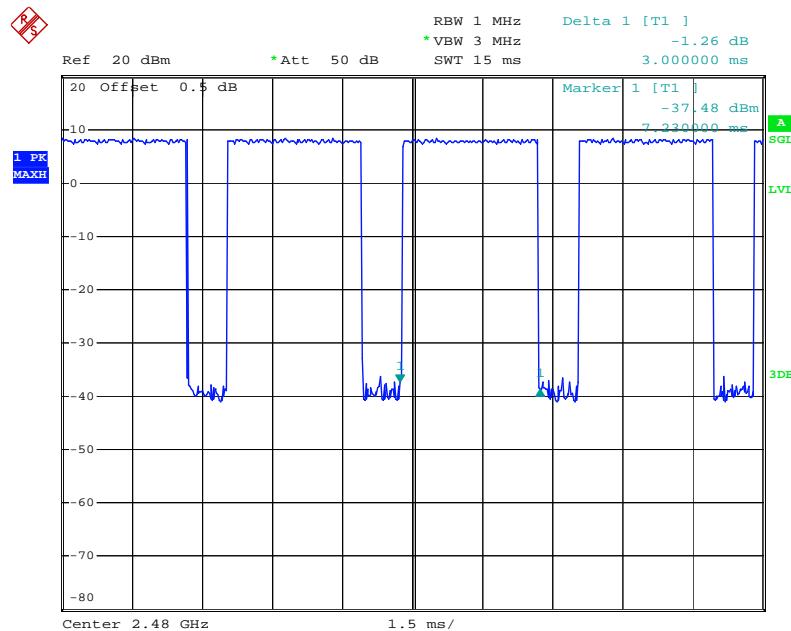
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### Middle Channel for DH5



Date: 17.MAR.2014 05:13:00

### High Channel for DH5



Date: 17.MAR.2014 05:05:12

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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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## **5.7 §15.247(b) (1) - Peak Output Power**

1. Conducted Measurement  
EUT was set for low, mid, high channel with modulated mode and highest RF output power.  
The spectrum analyzer was connected to the antenna terminal.
2. Conducted Emissions Measurement Uncertainty  
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz – 40GHz is  $\pm 1.5\text{dB}$ .
3. Environmental Conditions      Temperature      20°C  
    Relative Humidity      50%  
    Atmospheric Pressure      1019mbar
4. Test date : March 18, 2014  
Tested By : Amos Xia

### **Standard Requirement:**

According to §15.247(b)(2), For frequency hopping systems in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band: 0.125watts.

### **Procedures:**

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel, RBW > the 20 dB bandwidth of the emission being measured,  $\text{VBW} \geq \text{RBW}$ , Sweep=auto, Detector function=peak, Trace = max hold.
4. Then set the EUT to transmit at low, middle and high channel and measure the conducted output power separately.

### **Test Result: Pass**

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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

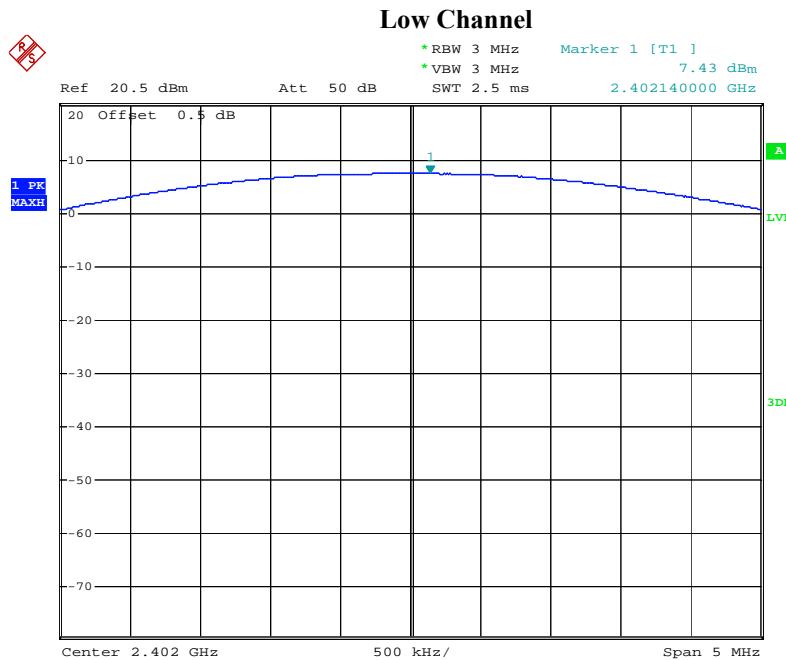
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**Test Mode: GFSK Transmitting**

Channel	Channel frequency (MHz)	Peak output power (dBm)	Power output (mW)	Limit (mW)
Low channel	2402	7.43	5.53	125
Middle channel	2441	5.53	3.57	125
High channel	2480	5.69	3.71	125

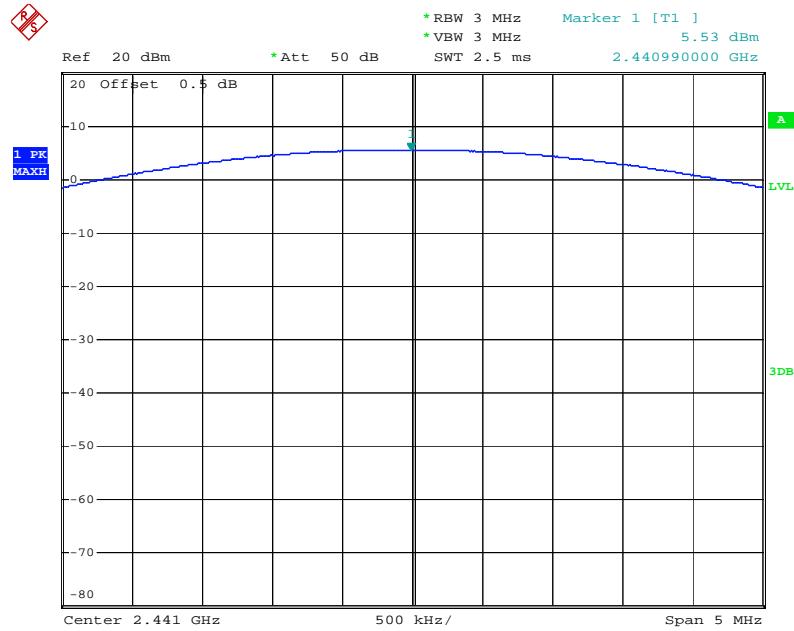
Please refer to the following plots.

**Note:** The data above was tested in conducted mode.



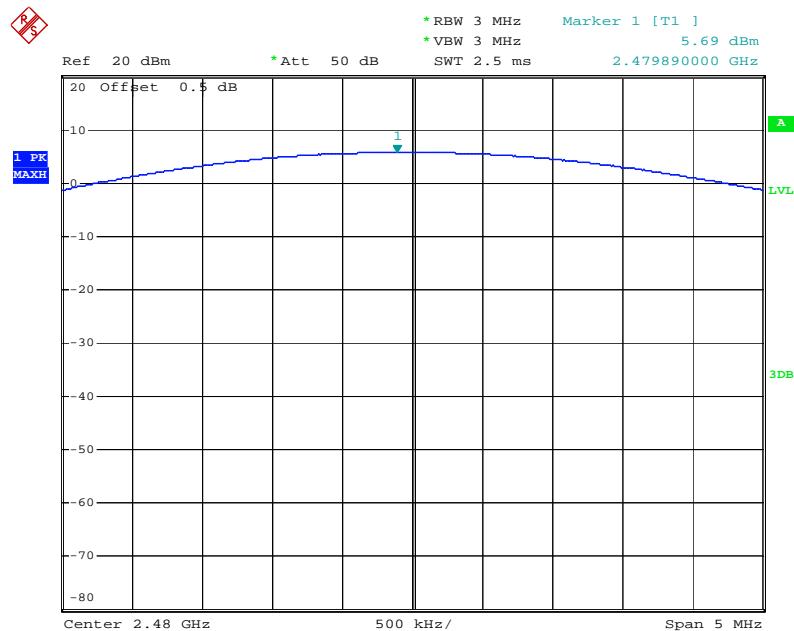
Date: 17.MAR.2014 03:40:55

### Middle Channel

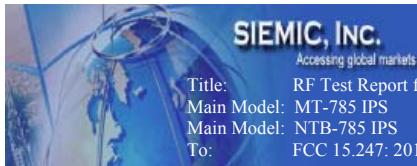


Date: 17.MAR.2014 04:16:06

### High Channel



Date: 17.MAR.2014 04:26:09



Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

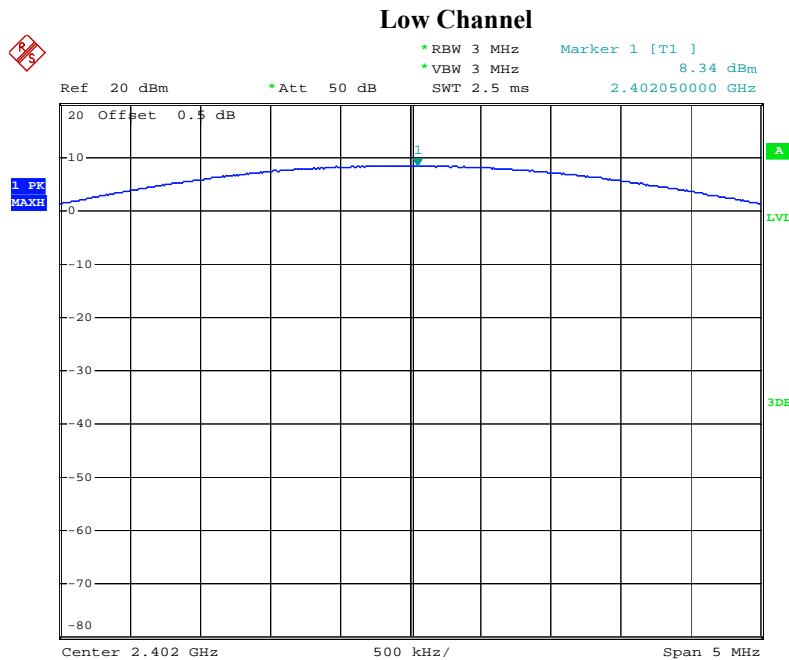
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**Test Mode:**  $\pi/4$ -DQPSK Transmitting

Channel	Channel frequency (MHz)	Peak output power (dBm)	Power output (mW)	Limit (mW)
Low channel	2402	8.34	6.82	125
Middle channel	2441	8.54	7.14	125
High channel	2480	8.58	7.21	125

Please refer to the following plots.

**Note:** The data above was tested in conducted mode.



Date: 17.MAR.2014 04:35:28

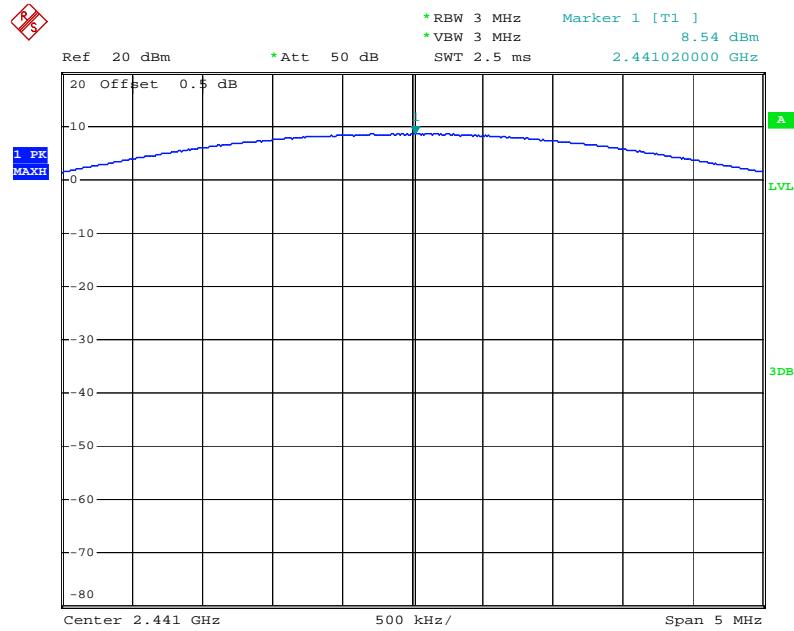
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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

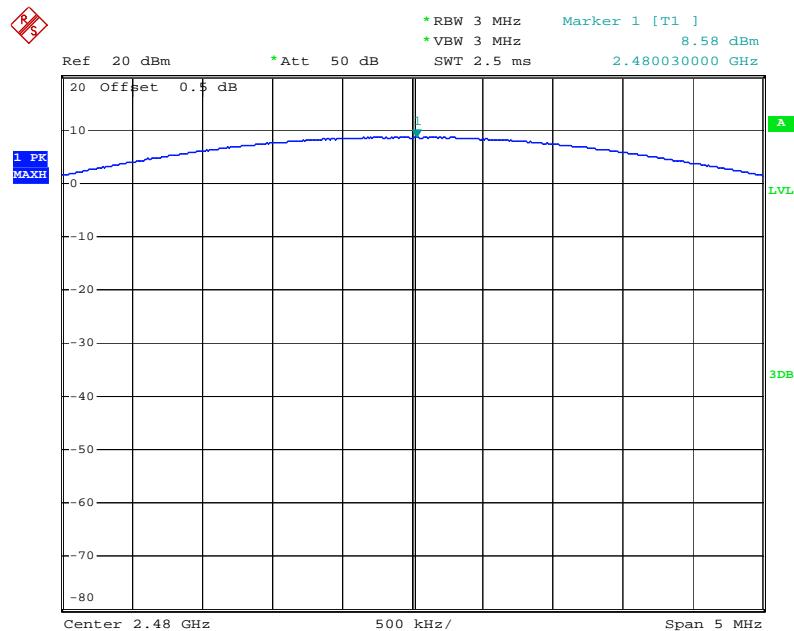
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### Middle Channel



Date: 17.MAR.2014 04:59:07

### High Channel



Date: 17.MAR.2014 05:03:21

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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

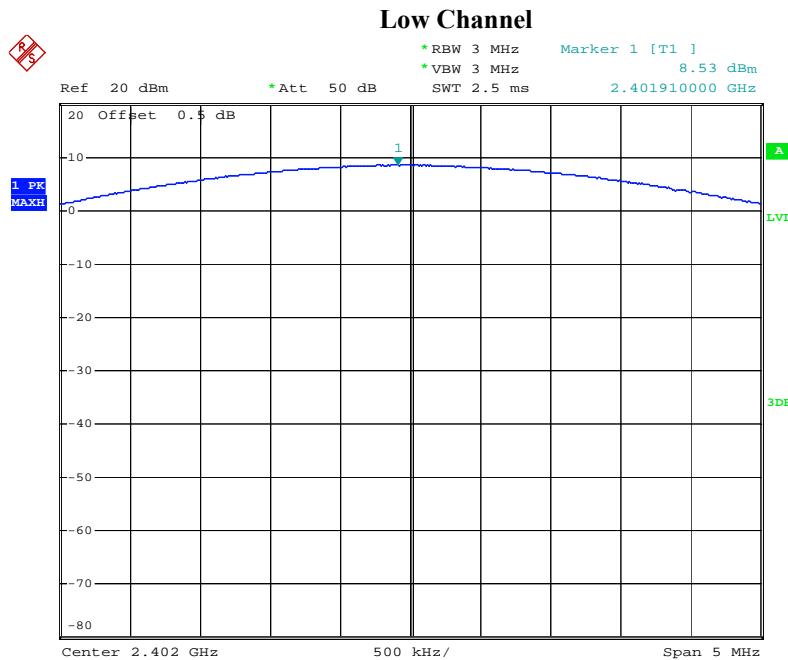
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**Test Mode: 8DPSK Transmitting**

Channel	Channel frequency (MHz)	Peak output power (dBm)	Power output (mW)	Limit (mW)
Low channel	2402	8.53	7.13	125
Middle channel	2441	8.79	7.57	125
High channel	2480	8.82	7.62	125

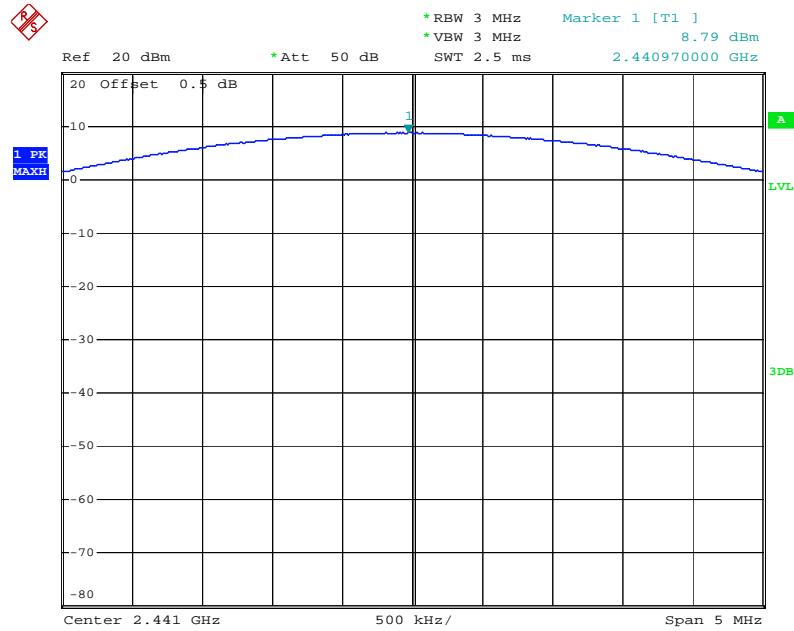
Please refer to the following plots.

**Note:** The data above was tested in conducted mode.



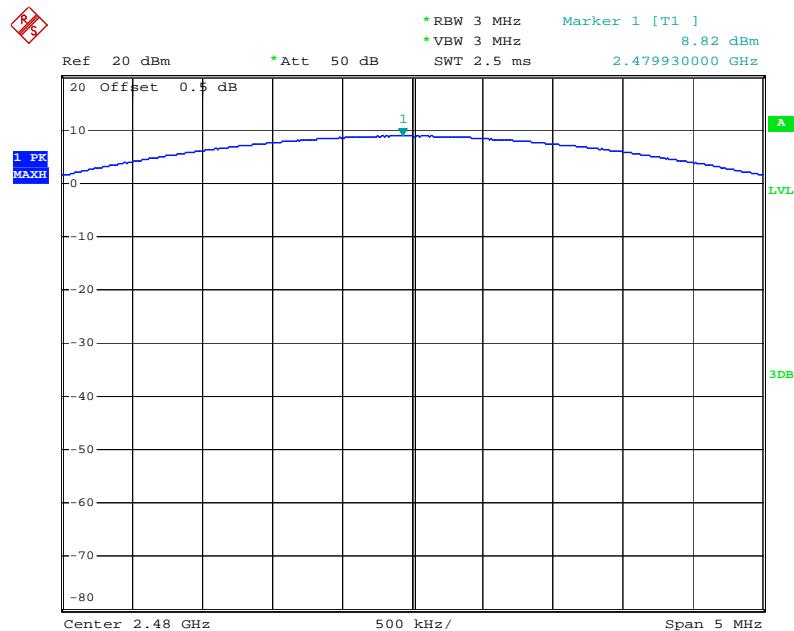
Date: 17.MAR.2014 05:35:01

### Middle Channel

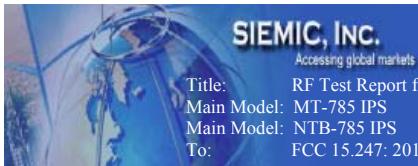


Date: 17.MAR.2014 05:12:33

### High Channel



Date: 17.MAR.2014 05:07:16



Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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## **5.8 §15.247(d) - Band Edge**

### **Standard Requirement:**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### **Procedures:**

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

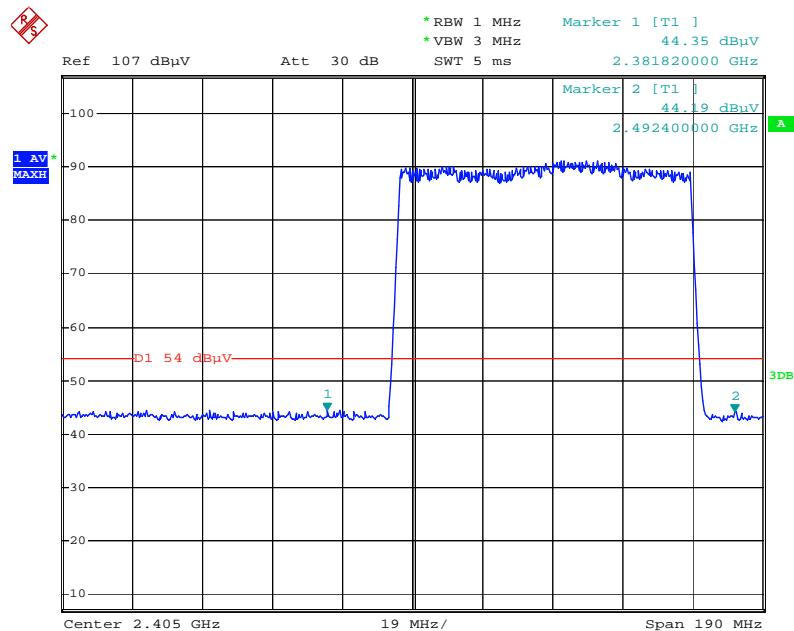
### **Test Result: Pass**

<b>Test Mode:</b>	<b>GFSK Hopping &amp; Transmitting</b>
-------------------	--

Please refer to the following plots.

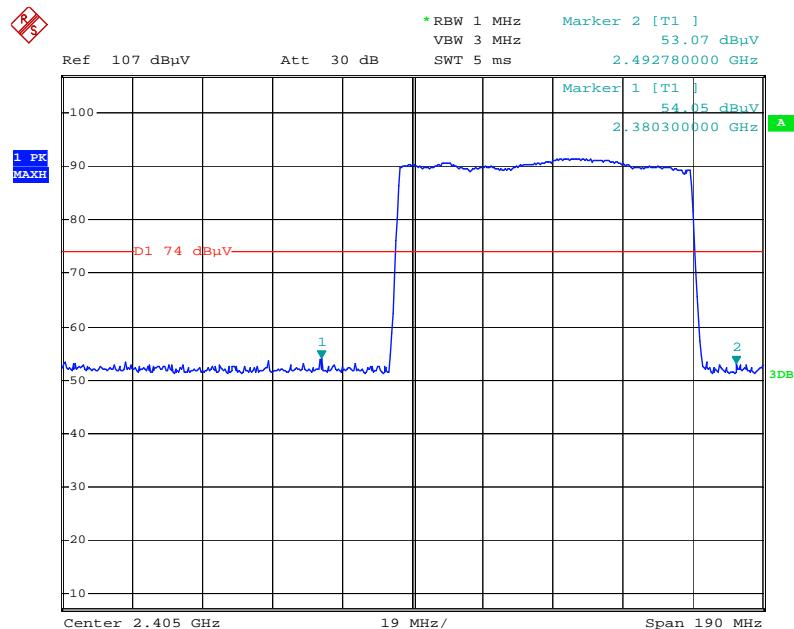


### GFSK-hopping-Ave



Date: 19.MAR.2014 04:02:31

### GFSK-hopping-PK



Date: 19.MAR.2014 04:01:54

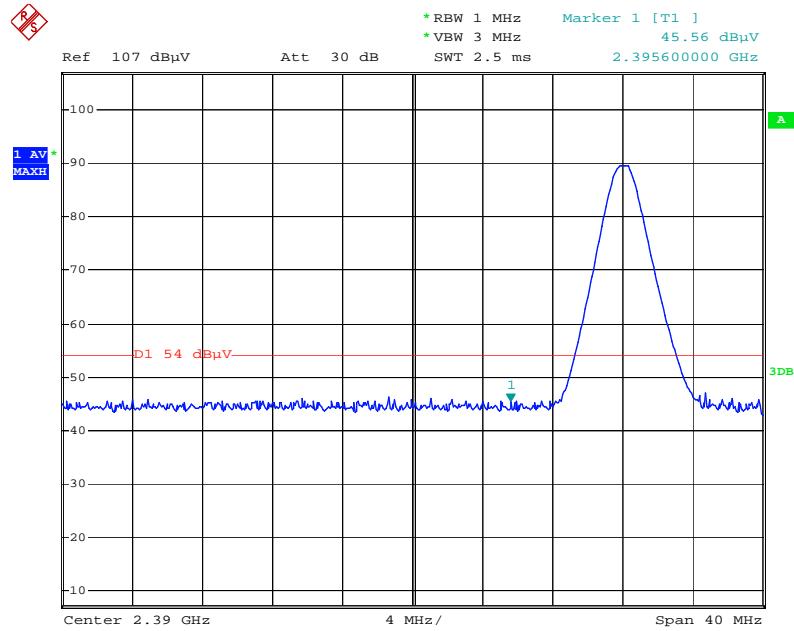


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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

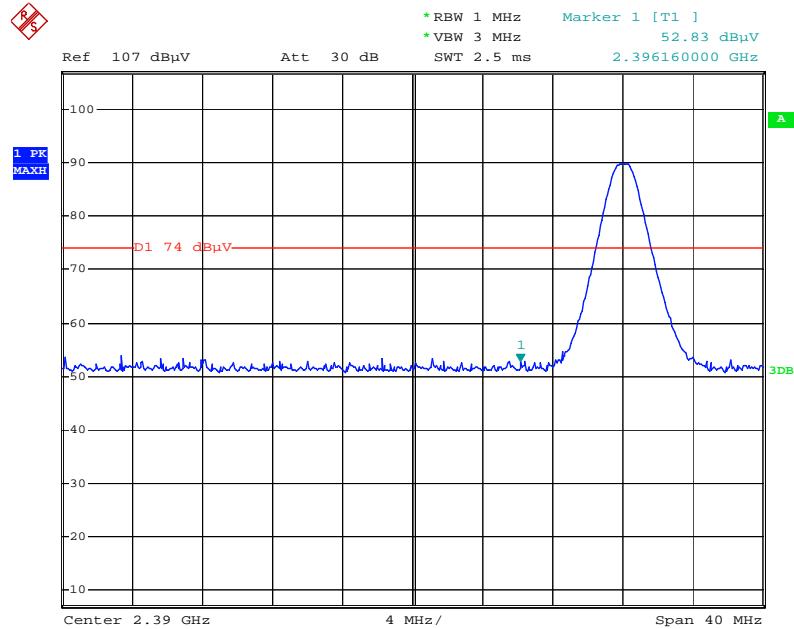
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### GFSK Left Side Ave



Date: 19.MAR.2014 04:13:37

### GFSK Left Side PK



Date: 19.MAR.2014 04:11:25



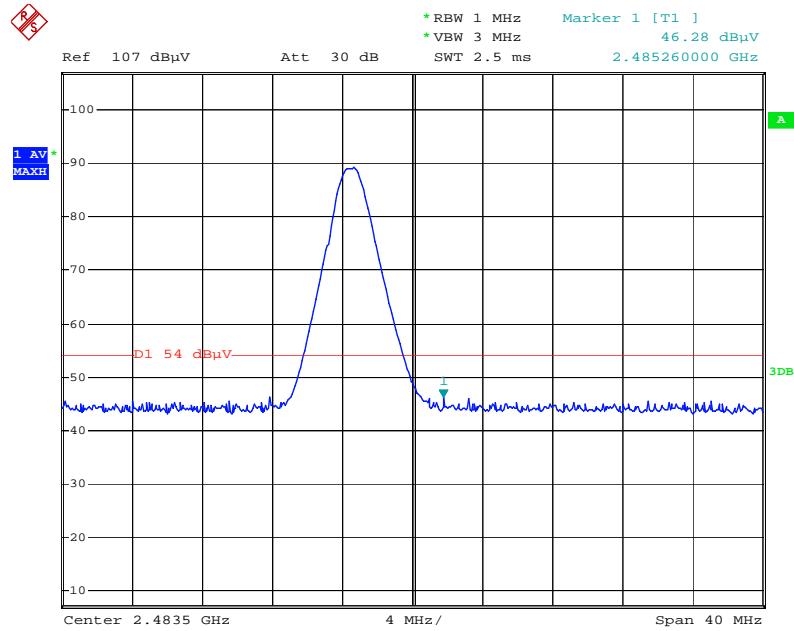
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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

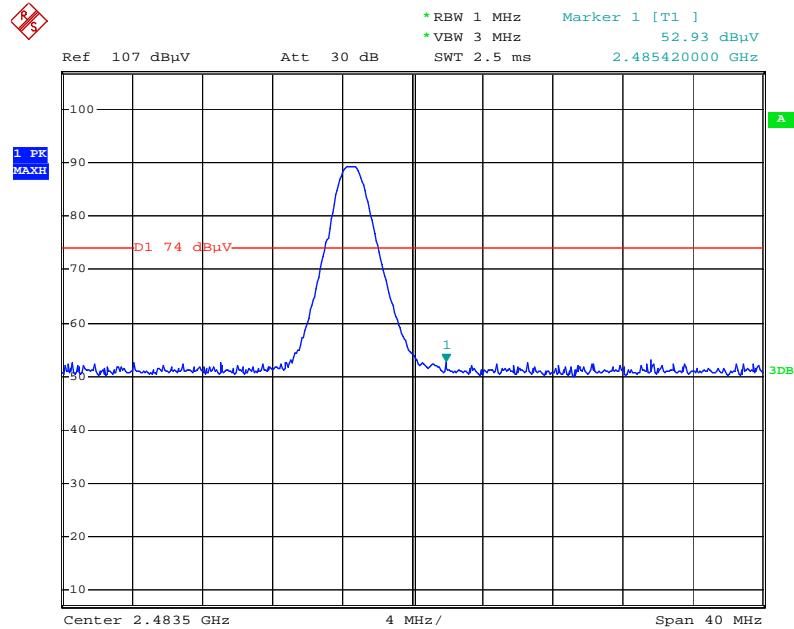
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### GFSK Right Side Ave



Date: 19.MAR.2014 04:15:44

### GFSK Right Side PK



Date: 19.MAR.2014 04:16:02

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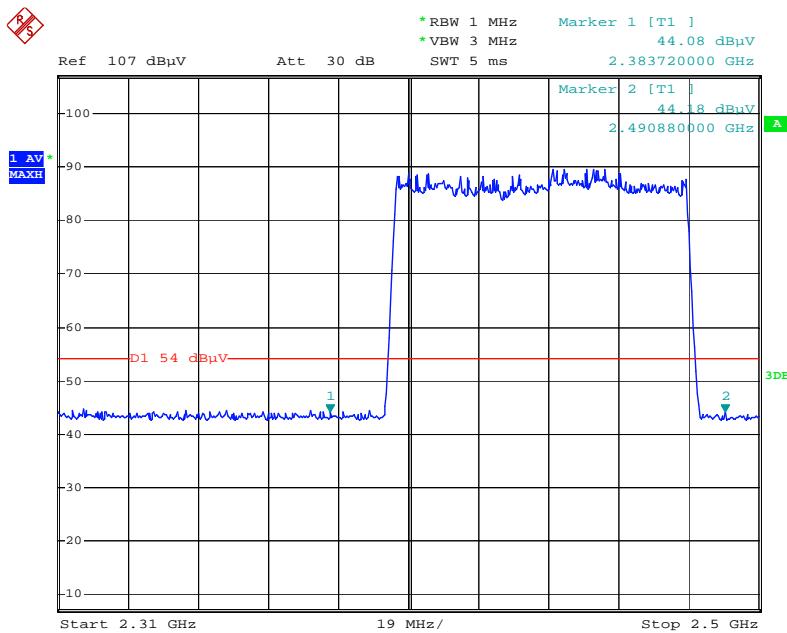
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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

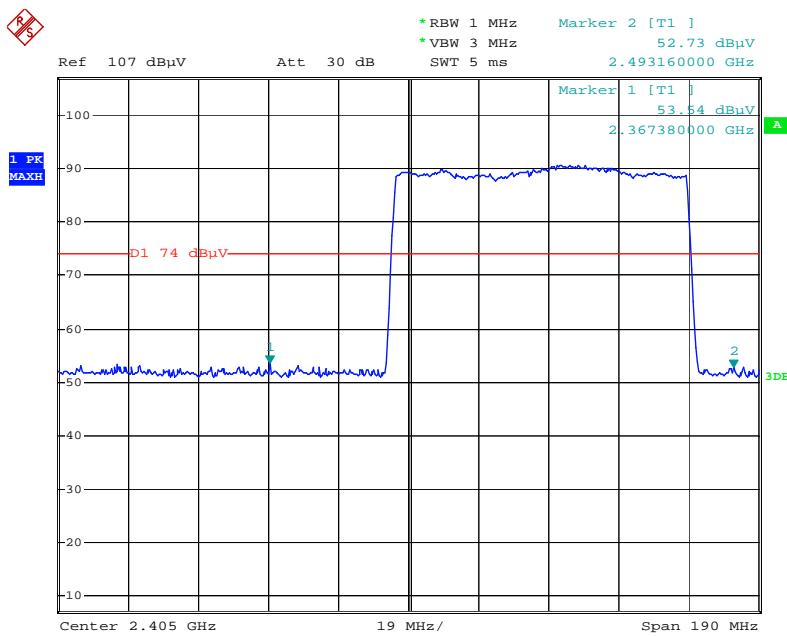
Report No: 14020106-FCC-R1  
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**Test Mode:** **$\pi/4$ -DQPSK Hopping & Transmitting**

Please refer to the following plots.

 **$\pi/4$ -DQPSK -hopping-Ave**

Date: 19.MAR.2014 04:19:56

 **$\pi/4$ -DQPSK -hopping-PK**

Date: 19.MAR.2014 04:05:01

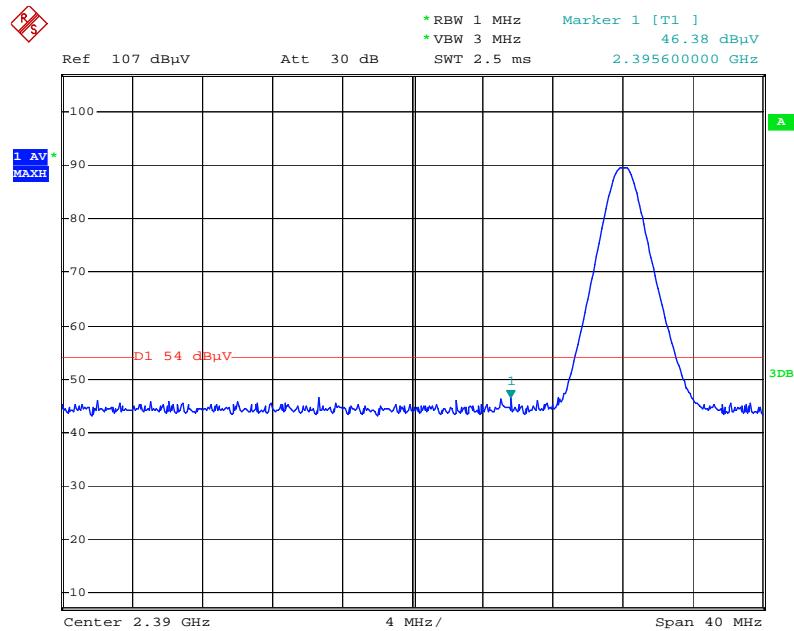
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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

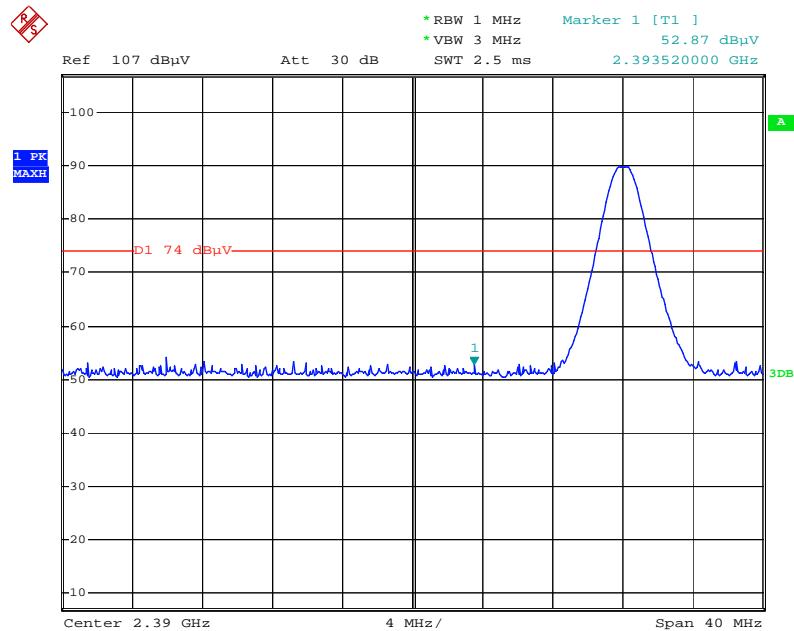
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### $\pi/4$ -DQPSK Left Side Ave



Date: 19.MAR.2014 04:13:00

### $\pi/4$ -DQPSK Left Side PK



Date: 19.MAR.2014 04:11:42



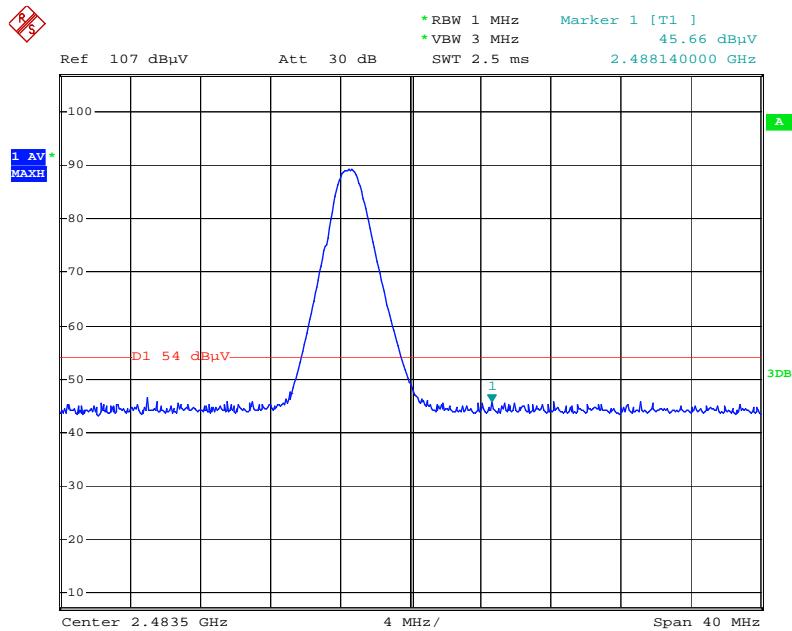
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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

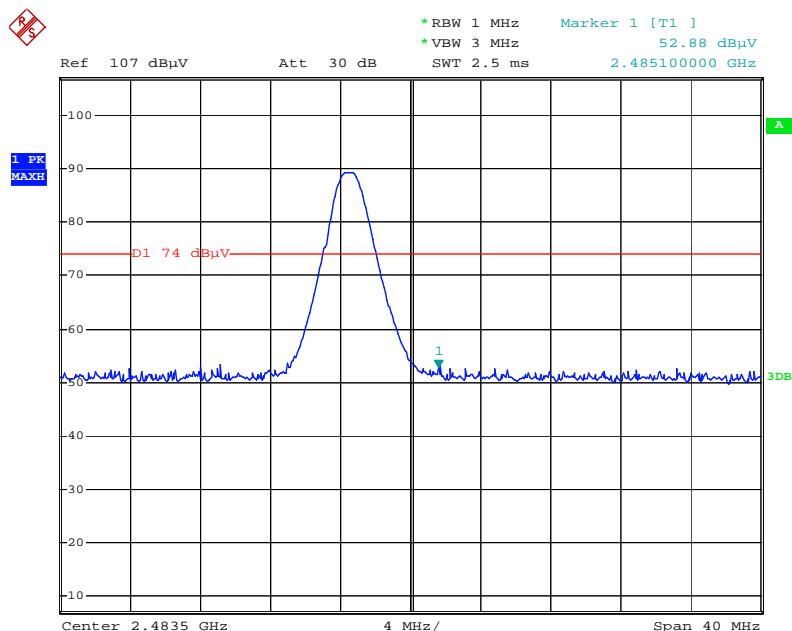
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### π/4-DQPSK Right Side Ave



Date: 19.MAR.2014 04:15:14

### π/4-DQPSK Right Side PK



Date: 19.MAR.2014 04:16:15



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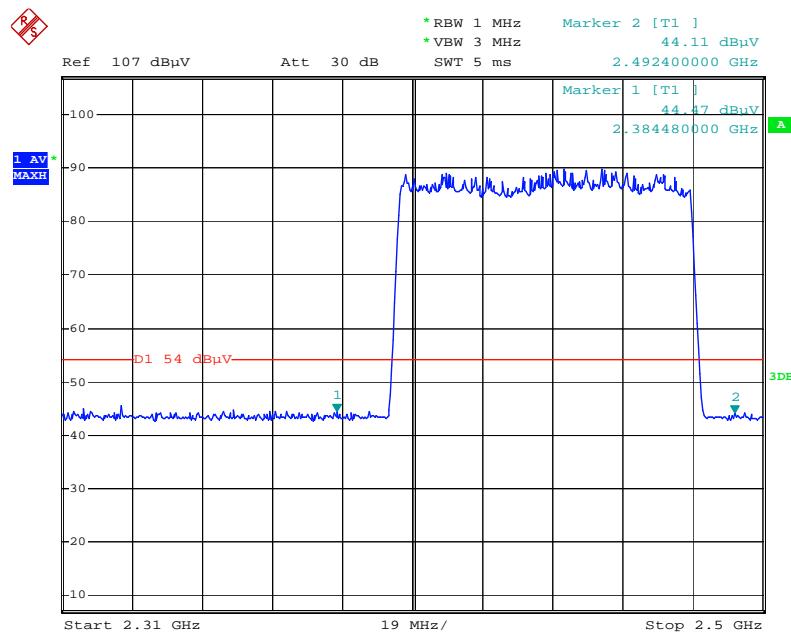
Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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## Test Mode: 8DPSK Hopping & Transmitting

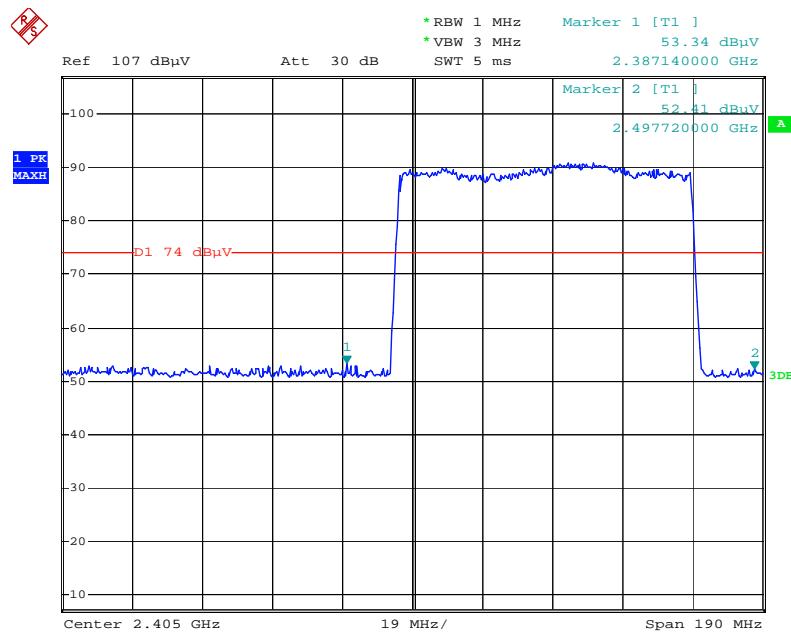
Please refer to the following plots.

### 8DPSK -hopping-Ave



Date: 19.MAR.2014 04:20:34

### 8DPSK -hopping-PK



Date: 19.MAR.2014 04:06:57

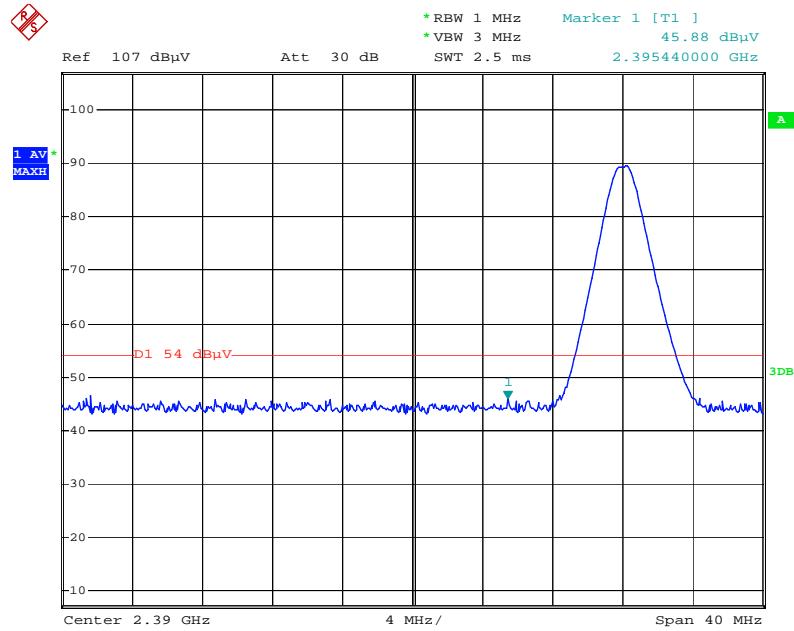


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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

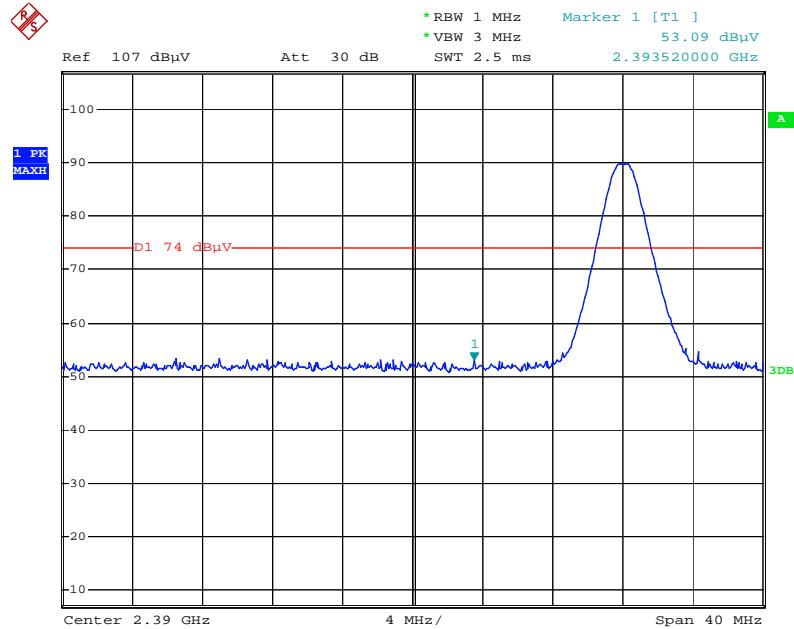
Report No: 14020106-FCC-R1  
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### 8DPSK Left Side Ave



Date: 19.MAR.2014 04:13:14

### 8DPSK Left Side PK



Date: 19.MAR.2014 04:12:24



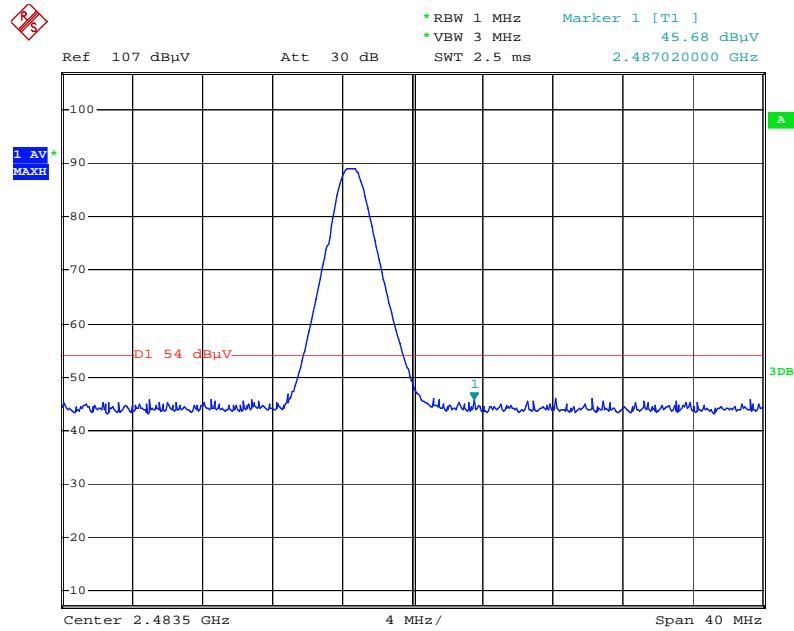
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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

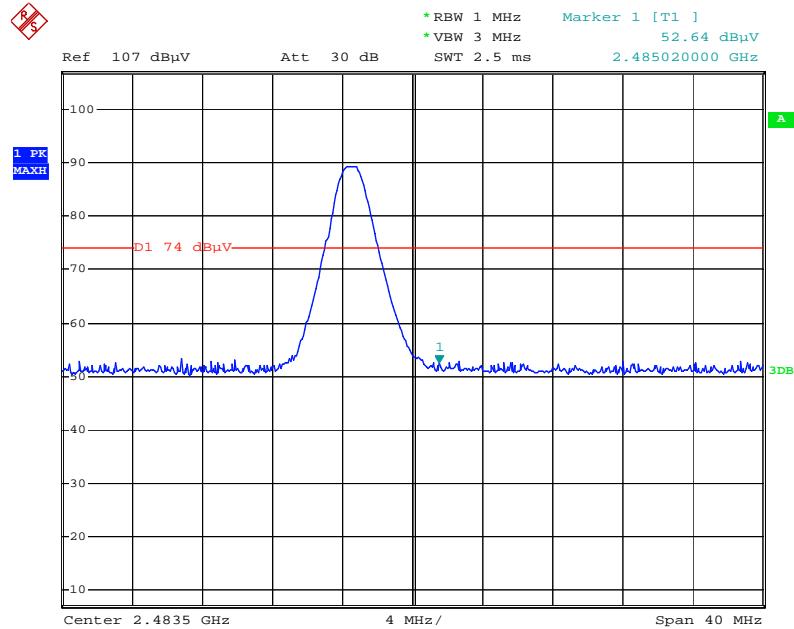
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### 8DPSK Right Side Ave



Date: 19.MAR.2014 04:15:30

### 8DPSK Right Side PK



Date: 19.MAR.2014 04:16:40

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Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
Main Model: NTB-785 IPS  
To: FCC 15.247: 2013, ANSI C63.4: 2009

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## **Annex A. TEST INSTRUMENT & METHOD**

### **Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES**

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
<b>AC Line Conducted Emissions</b>				
R&S EMI Test Receiver	ESPI3	101216	09/27/2013	09/26/2014
V-LISN	ESH3-Z5	838979/005	09/27/2013	09/26/2014
Com-Power Transient Limiter	LIT-153	531021	09/27/2013	09/26/2014
Universal Radio Communication Tester	CMU200	104031	09/27/2013	09/26/2014
A- INFOMW Antenna (1 ~18GHz)	JXTXLB-10180	J2031081120 092	10/09/2013	10/08/2014
SIEMIC Labview Conducted Emissions software	V1.0	N/A	N/A	N/A
<b>Radiated Emissions</b>				
Hp Spectrum Analyzer	8563E	3821A09023	09/27/2013	09/26/2014
R&S EMI Receiver	ESPI3	101216	09/27/2013	09/26/2014
Antenna (30MHz~6GHz)	JB6	A121411	03/27/2013	03/26/2014
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	10/09/2013	10/08/2014
A- INFOMW Antenna (1 ~18GHz)	JXTXLB-10180	J2031081120 092	10/09/2013	10/08/2014
Horn Antenna (18~40GHz)	AH-840	101013	04/22/2013	04/22/2014
Microwave Pre-Amp (18~40GHz)	PA-840	181250	05/30/2013	05/29/2014
Hp Agilent Pre-Amplifier	8447F	1937A01160	10/27/2013	10/26/2014
MITEQ Pre-Amplifier (0.1 ~ 18GHz)	AMF-7D-00101800-30-10P	1451709	10/27/2013	10/26/2014
Universal Radio Communication Tester	CMU200	104031	09/27/2013	09/26/2014
Chamber	3m	N/A	04/13/2013	04/12/2014
SIEMIC Labview Radiated Emissions software	V1.0	N/A	N/A	N/A



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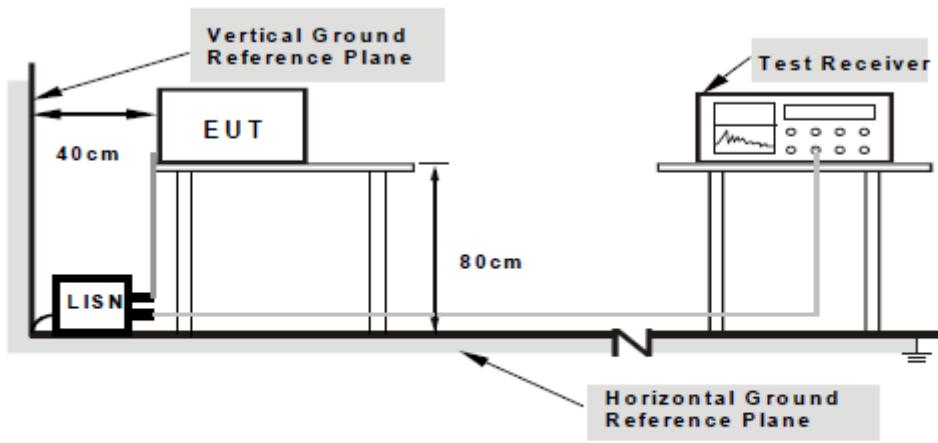
Title: RF Test Report for 7.85inch Tablet PC  
Main Model: MT-785 IPS  
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## **Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION**

### **Test Set-up**

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in [Annex B](#).
2. The power supply for the EUT was fed through a  $50\Omega/50\mu\text{H}$  EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
4. All other supporting equipments were powered separately from another main supply.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration1.

### **Test Method**

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
3. High peaks, relative to the limit line, were then selected.
4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

### **Description of Conducted Emission Program**

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the common scan range from 150 kHz to 30 MHz; the program will first start a peak and average scan on selectable measurement time and step size. After the program complete the pre-scan, this program will perform the Quasi Peak and Average measurement, based on the pre-scan peak data reduction result.



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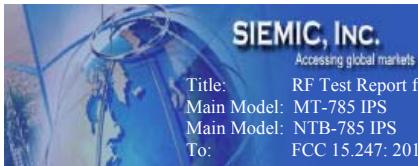
## Sample Calculation Example

At 20 MHz limit = 250  $\mu$ V = 47.96 dB $\mu$ V

Transducer factor of LISN, pulse limiter & cable loss at 20 MHz = 11.20 dB

Q-P reading obtained directly from EMI Receiver = 40.00 dB $\mu$ V  
(Calibrated for system losses)

Therefore, Q-P margin = 47.96 – 40.00 = 7.96 i.e. **7.96 dB below limit**



### **Annex A. iii. RADIATED EMISSIONS TEST DESCRIPTION**

#### **Limit**

1. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

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

2. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength ( $\mu$ V/m at 3-meter)	Field Strength (dB $\mu$ V/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

#### **EUT Characterisation**

EUT characterisation, over the frequency range from 30MHz to 10<sup>th</sup> Harmonic, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer / receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred, clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS) or 3m EMC chamber.



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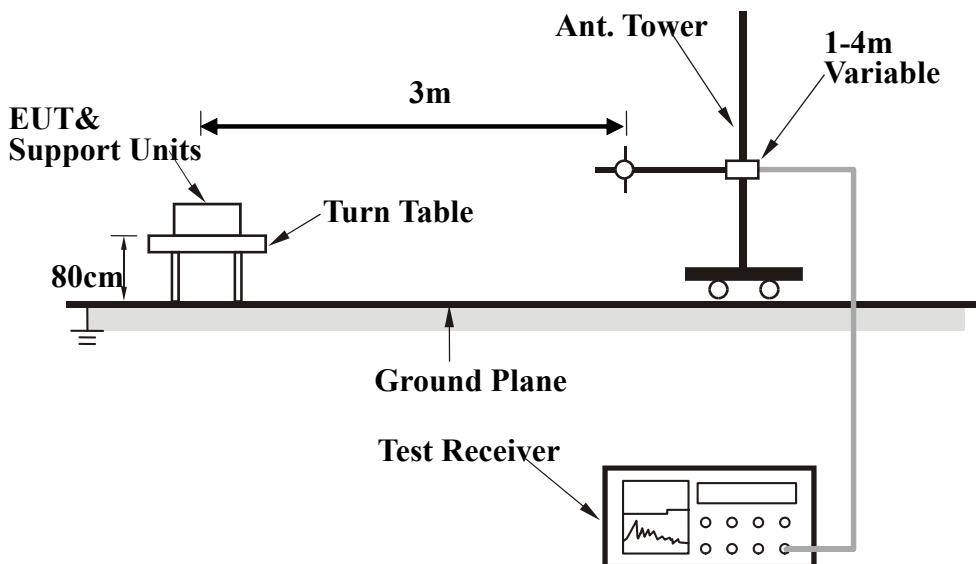
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## Test Set-up

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m X 1.0m X 0.8m high, non-conductive table.
2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



## Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

### Final Radiated Emission Measurement

1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
2. For emission frequencies measured below 1 GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on an open test site. As the same purpose, for emission frequencies measured above 1 GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
3. For emission frequencies measured below and above 1 GHz, set the spectrum analyzer on a 100 kHz and 1 MHz resolution bandwidth respectively for each frequency measured in step 2.
4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
5. Repeat step 4 until all frequencies need to be measured was complete.
6. Repeat step 5 with search antenna in vertical polarized orientations.

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During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

### **Description of Radiated Emissions Program**

This EMC Measurement software run LabView automation software and offers a common user interface for electromagnetic interference (EMI) measurements. This software is a modern and powerful tool for controlling and monitoring EMI test receivers and EMC test systems. It guarantees reliable collection, evaluation, and documentation of measurement results. Basically, this program will run a pre-scan measurement before it proceeds with the final measurement. The pre-scan routine will run the scan on four different antenna heights, 2 antenna polarity, and 360 degrees table rotation. For example, the program was set to run 30 MHz to 1 GHz scan; the program will first start from a meter antenna height and divide the 30 MHz to 1 GHz into 10 separate parts of maximum hold sweeps. Each parts of maximum hold sweep, the program will collect the data from 0 degree to 360 degrees table rotation. After the program complete the 1m scan, the antenna continues to rise to 2m and continue the scan. The step will repeated for all specified antenna height and polarity. This program will perform the Quasi Peak measurement after the signal maximization process and pre-scan routine. The final measurement will be base on the pre-scan data reduction result.

### **Sample Calculation Example**

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

$$\text{Peak} = \text{Reading} + \text{Corrected Factor}$$

where

$$\text{Corr. Factor} = \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain (if any)}$$

And the average value is

$$\begin{aligned} \text{Average} &= \text{Peak Value} + \text{Duty Factor} \text{ or} \\ &\text{Set RBW} = 1\text{MHz}, \text{VBW} = 10\text{Hz}. \end{aligned}$$

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1 GHz. And the measuring instrument is set to quasi peak detector function.

### **Radiated emission test facilities for frequencies above 1 GHz (ANSI C63.4-2009 Chapter 5.5)**

Currently, test site reference validation requirements above 1 GHz have not been established. However, facilities suitable for measurements in the frequency range 30 MHz to 1000 MHz are considered suitable for the frequency range 1 GHz to 40 GHz with RF absorbing material covering the ground plane such that the site validation criterion called out in CISPR 16-1-4:2007 is met, or alternatively covering a minimum area of 2.4 m by 2.4 m (for a 3 m test distance) between the antenna and the EUT using RF absorbing material with a minimum-rated attenuation of 20 dB (for normal incidence) up to 18 GHz. For separation distances greater than 3 m, a proportional increase in the area of suitable absorbing material is required.



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## Annex B. EUT AND TEST SETUP PHOTOGRAPHS

### Annex B.i. Photograph 1: EUT External Photo



Whole Package - Top View



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EUT - Front View



EUT - Rear View



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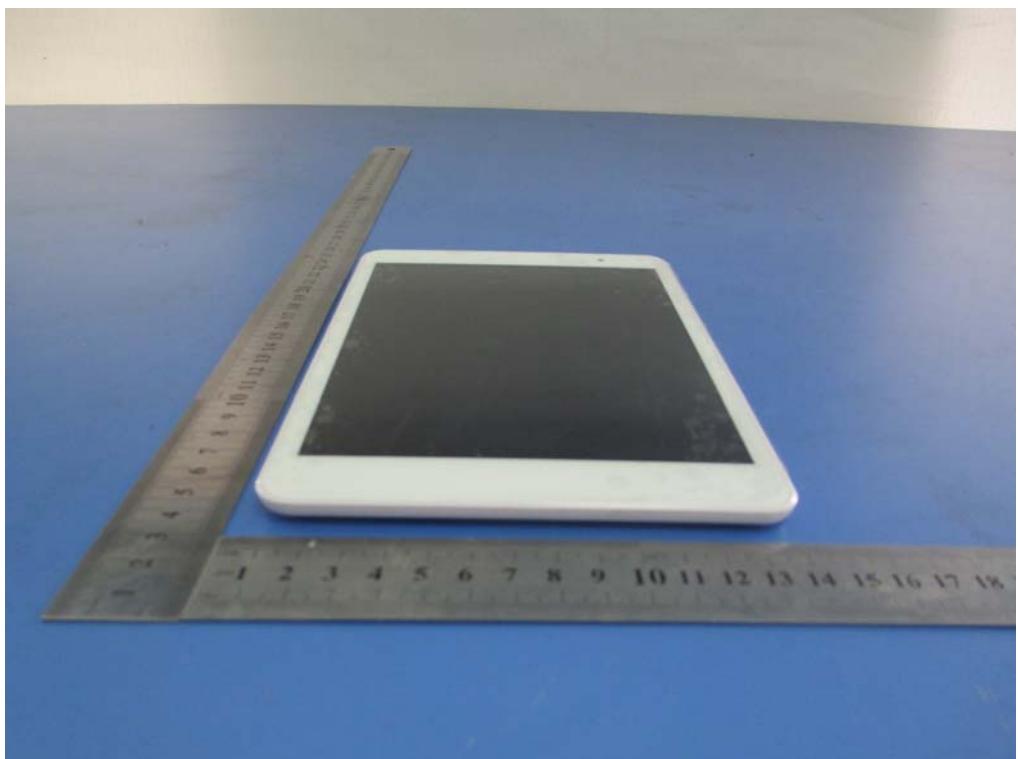
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EUT - Top View



EUT - Bottom View

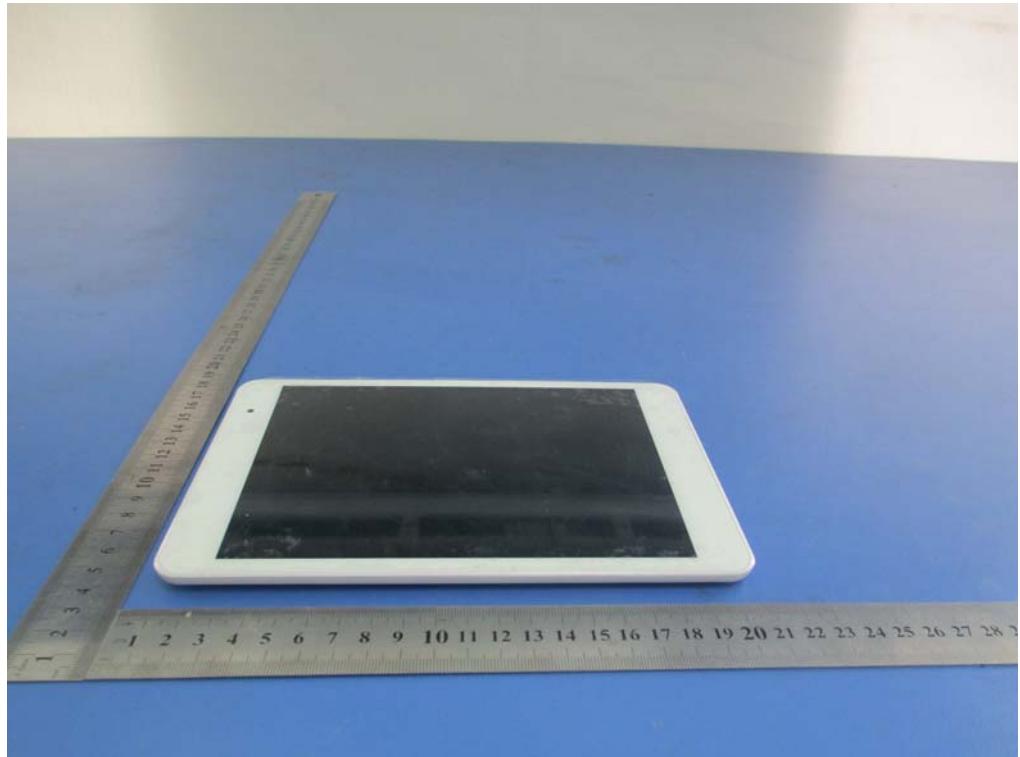


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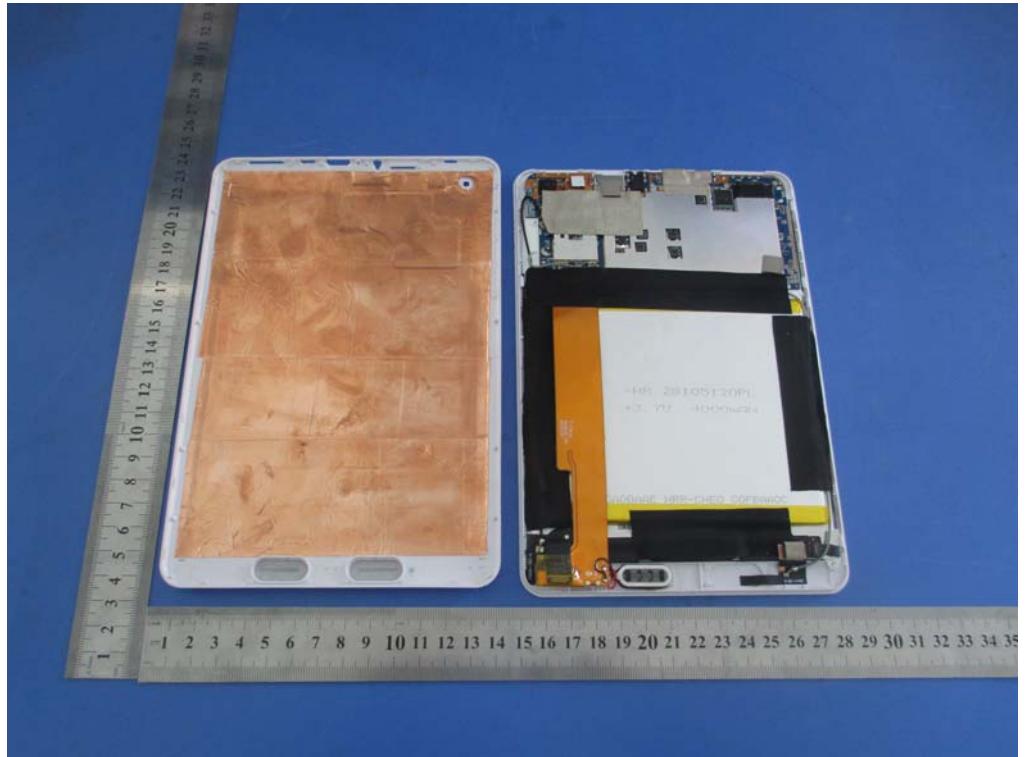
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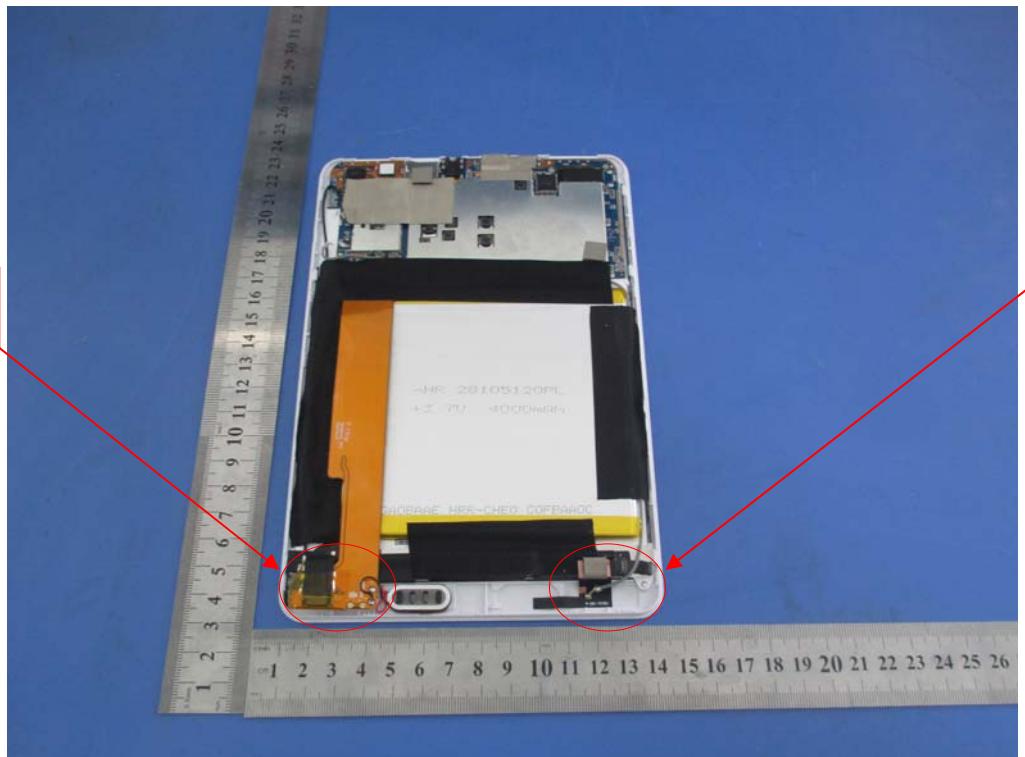
EUT - Left View



EUT - Right View

**Annex B.ii. Photograph 2: EUT Internal Photo**

Cover Off - Top View 1

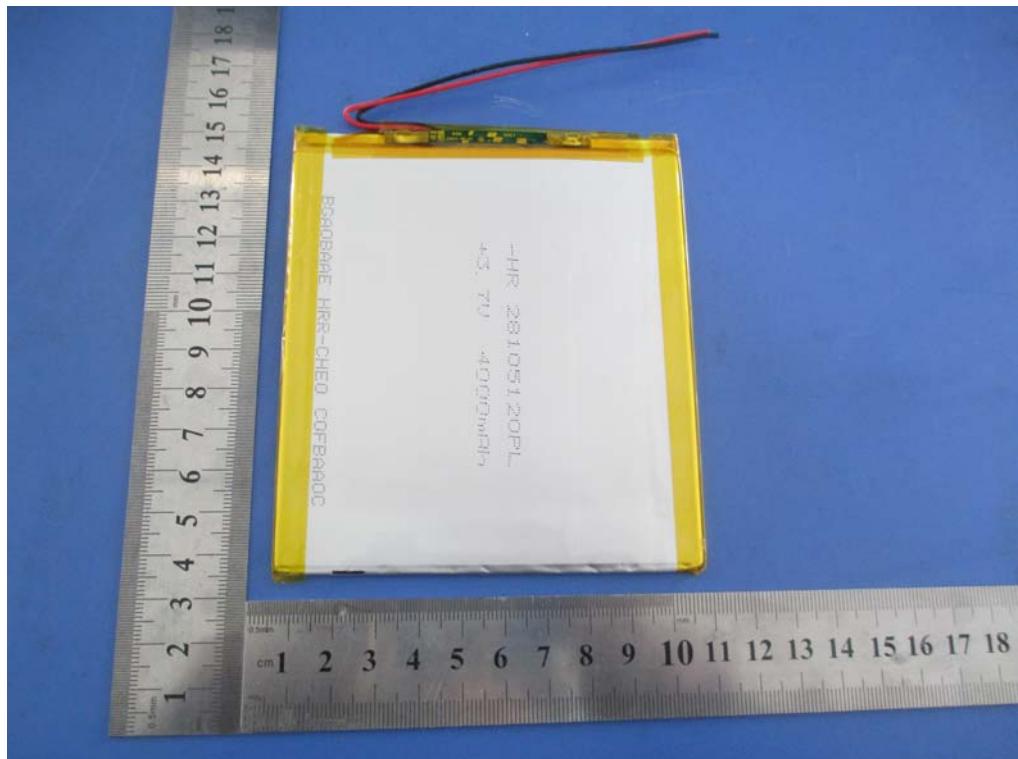


Cover Off - Top View 2

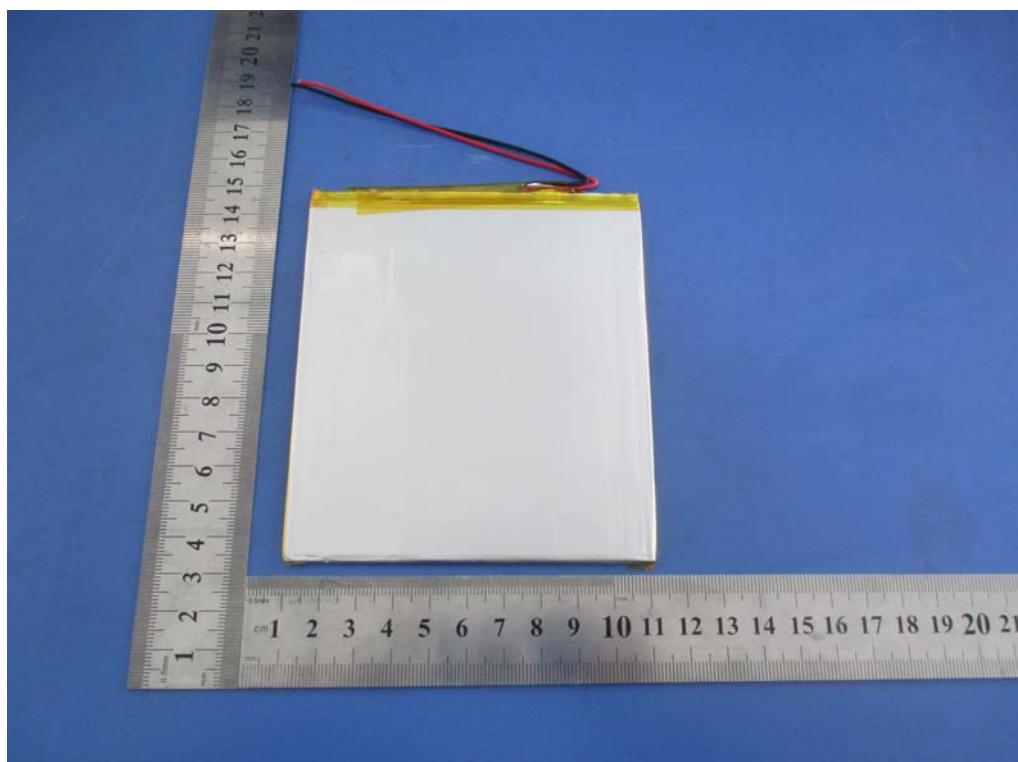


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Battery - Top View

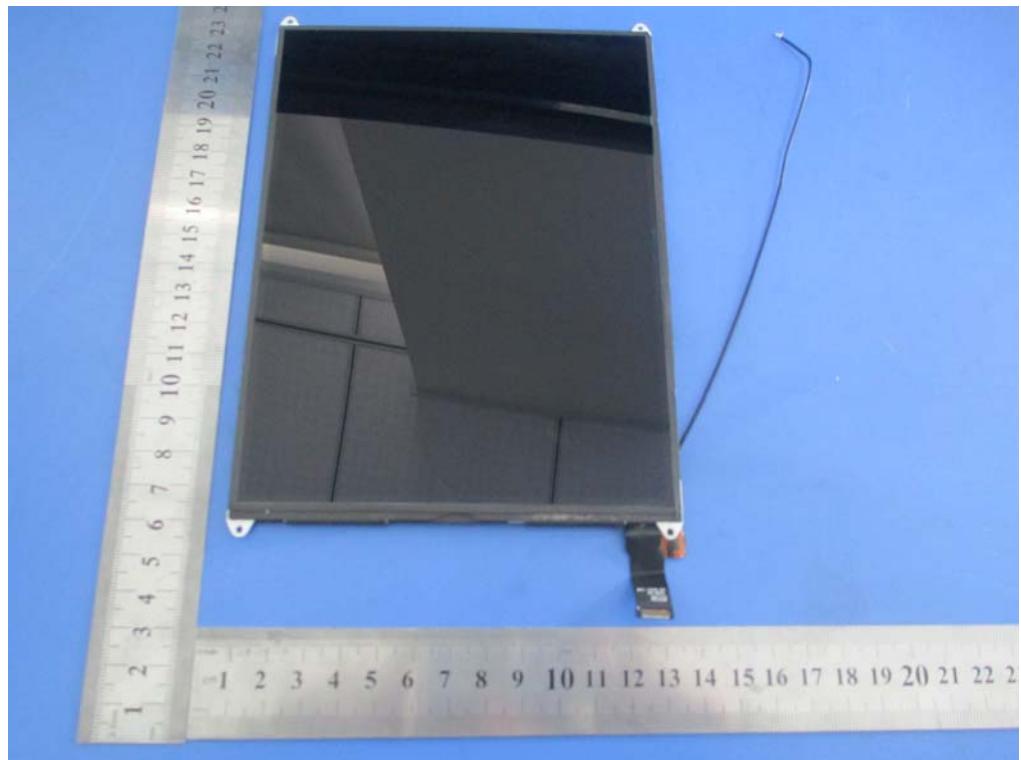


Battery - Bottom View

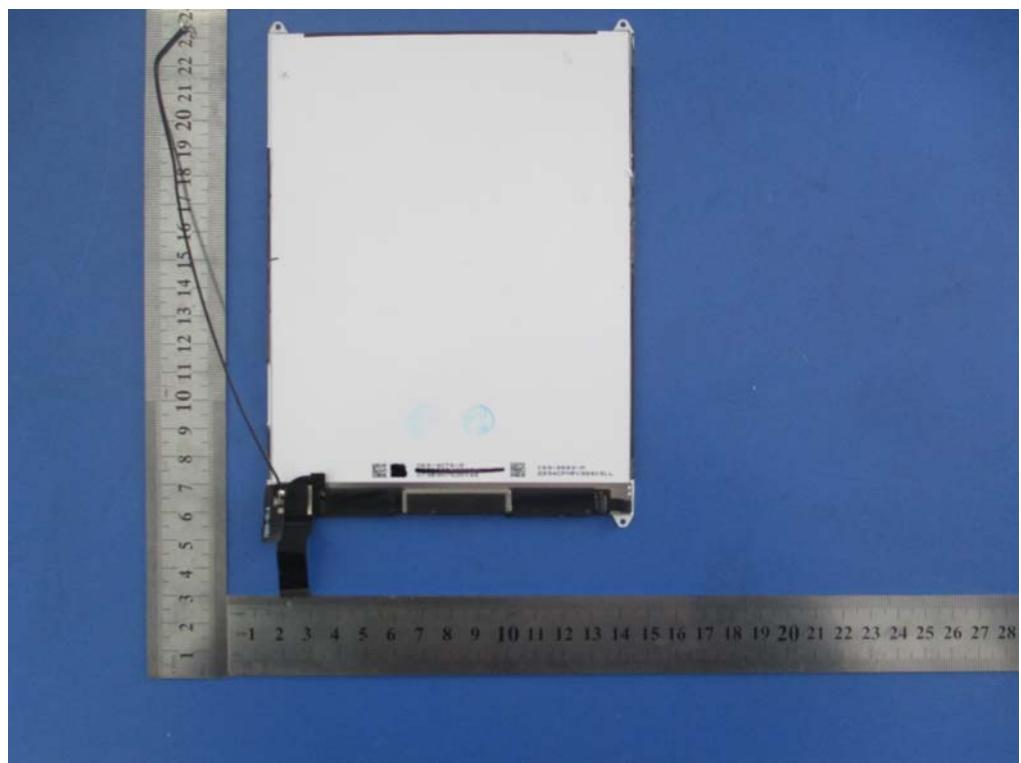


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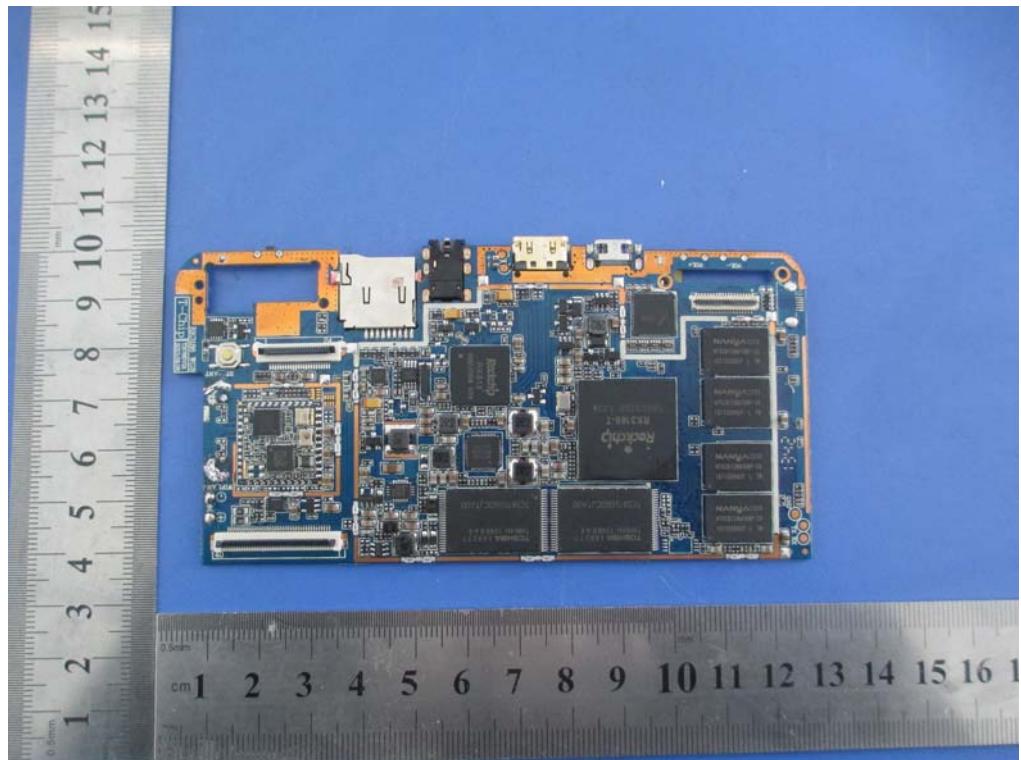
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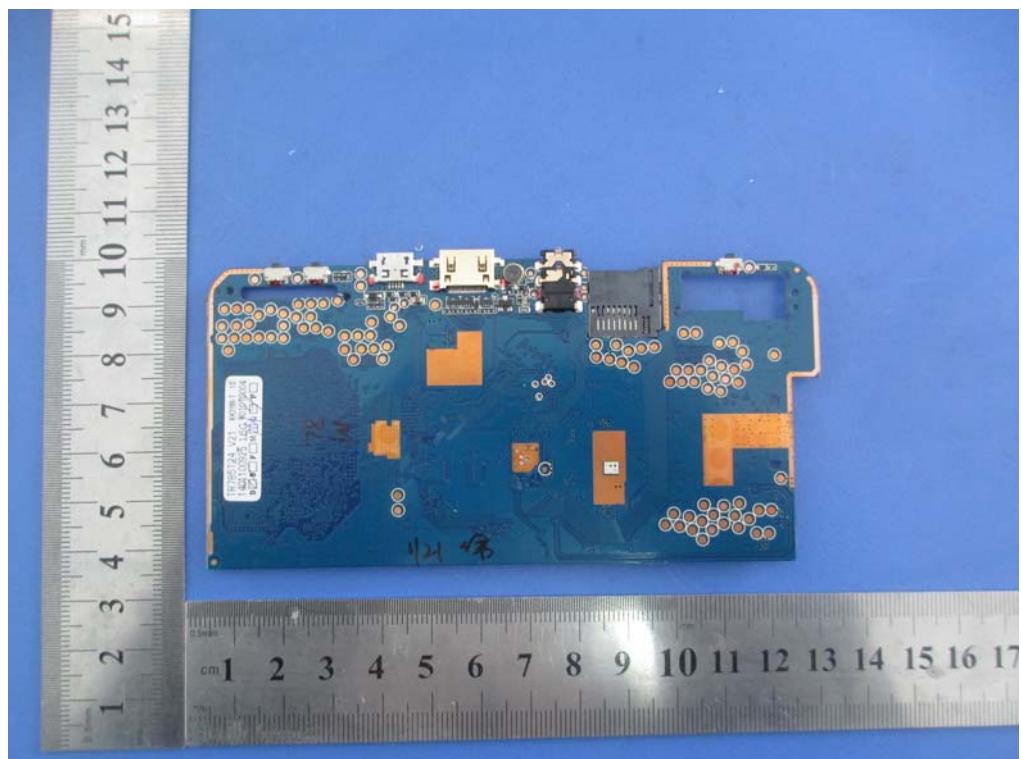
LCD - Top View



LCD - Bottom View



EUT PCB - Top View



EUT PCB - Bottom View

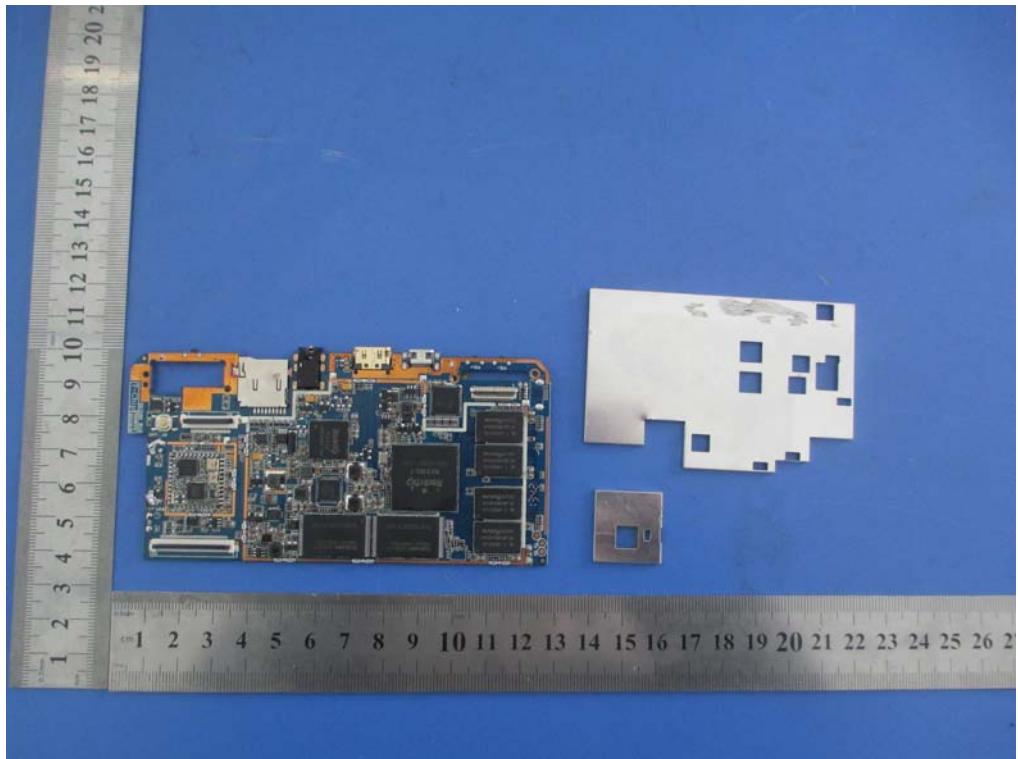


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Uncover Without Shielding - Top View



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### **Annex B.iii. Photograph 3: Test Setup Photo**



Conducted Emissions Test Setup – Front View



Conducted Emissions Test Setup – Side View

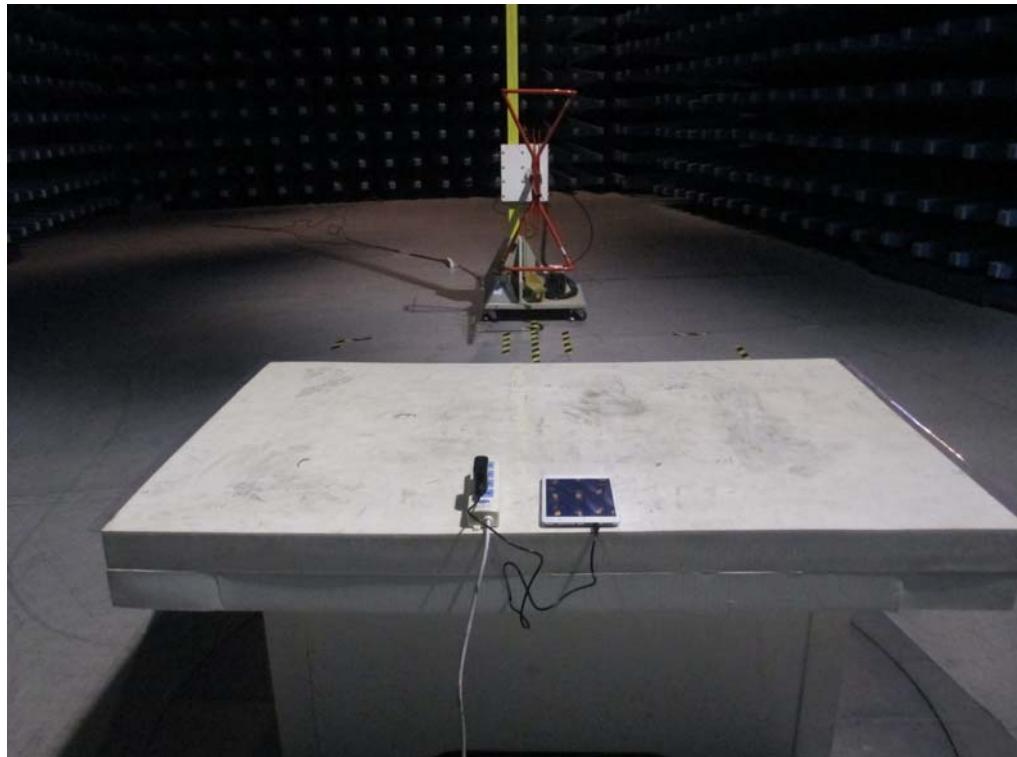


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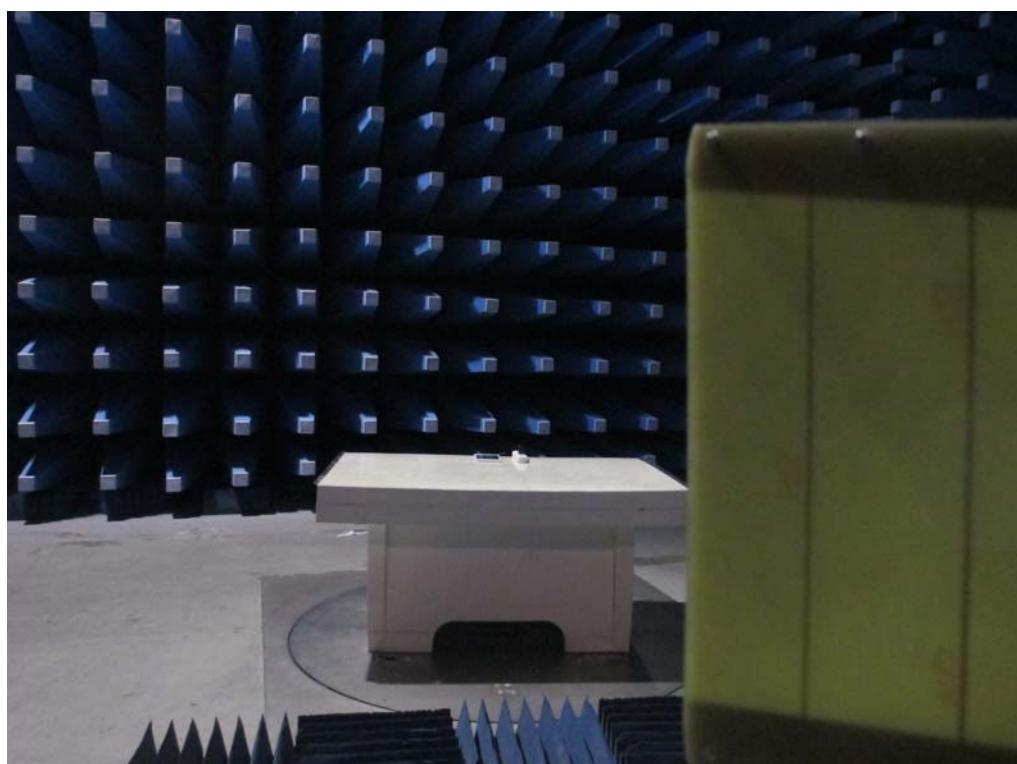
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Radiated Spurious Emissions Test Setup Below 1GHz - Front View



Radiated Spurious Emissions Test Setup Above 1GHz –Front View

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## **Annex C. TEST SETUP AND SUPPORTING EQUIPMENT**

### **EUT TEST CONDITIONS**

#### **Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION**

The following is a description of supporting equipment and details of cables used with the EUT.

<b>Equipment Description (Including Brand Name)</b>	<b>Model &amp; Serial Number</b>	<b>Cable Description (List Length, Type &amp; Purpose)</b>
N/A	N/A	N/A



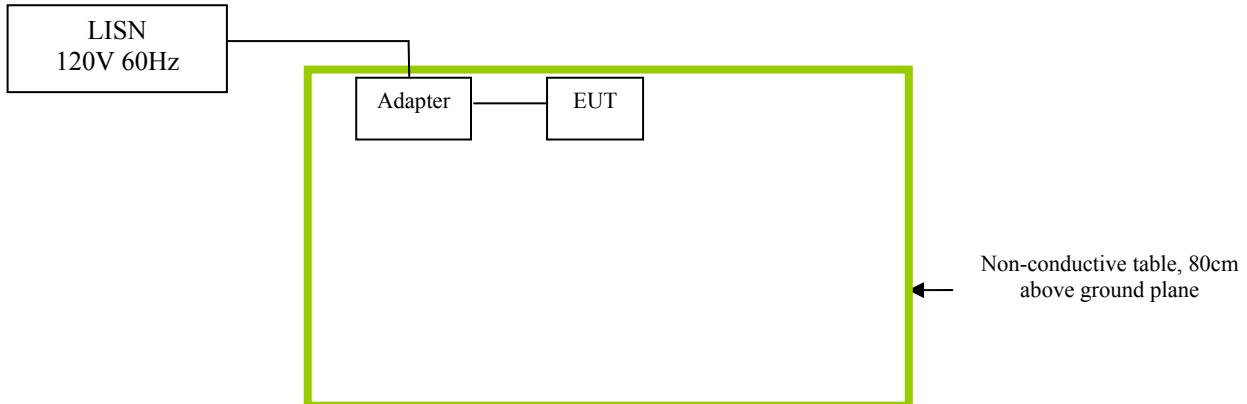
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## Block Configuration Diagram for AC Line Conducted Emissions





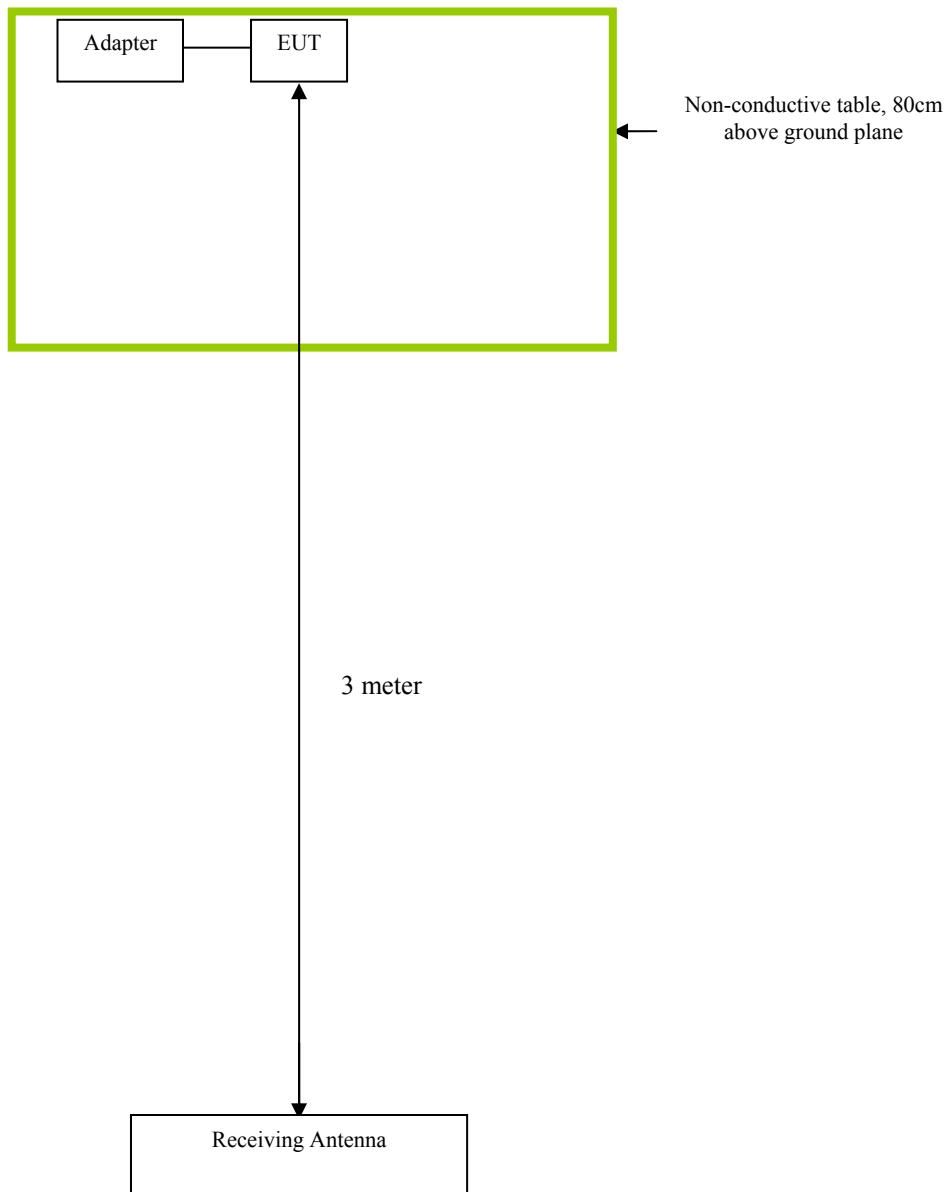
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## Block Configuration Diagram for Radiated Emissions





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### **Annex C.ii. EUT OPERATING CONDITIONS**

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
<b>Emissions Testing</b>	The EUT was continuously transmitting to stimulate the worst case.



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## **Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST**

**Please see attachment**



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## **Annex E. DECLARATION OF SIMILARITY**

MEERA INTERNATIONAL LIMITED

Contact information / address: 301 Kam On Building, 176A Queen's Road Central, Central, Hong Kong,

### **Statement**

To whom it may concern

Date: March 17, 2014

We hereby state that the 7.85inch Tablet PC of our model number **MT-785 IPS** and serial numbers **NTB-785 IPS** have the same constructions, circuit diagram and PCB layout. Only model name are different.

Sincerely,

*Kalevani*