# MEERA INTERNATIONAL LIMITED

# 7inch Tablet PC

Main Model: MT-708 i Serial Model: NTB-708 i, MT-788 i, NTB-788 i

**January 08, 2014 Report No.: 13021129-FCC-R1** 



**Modifications made to the product: None** 

This Test Report is Issued Under the Authority of:

Deon Dai
Compliance Engineer

Technical Manager

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

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SIEMIC, INC.

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

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

The purpose of this test programmed was to demonstrate compliance of the MEERA INTERNATIONAL LIMITED, 7inch Tablet PC and model: MT-708 i against the current Stipulated Standards. The 7inch Tablet PC has demonstrated compliance with the FCC Part 22(H) & FCC Part 24(E): 2013.

#### **EUT Information**

EUT Description	7inch Tablet PC
Main Model	MT-708 i
Serial Model	NTB-708 i , MT-788 i, NTB-788 i
Antenna Gain	GSM850: 0.9 dBi UMTS-FDD Band II/PCS1900: 1.6 dBi Bluetooth:1.8 dBi WIFI: 1.8 dBi
Input Power	Li-ion Battery: 3.7V 2800mAh 10.36Wh Nominal Voltage: POWER SUPPLY: Model: BY-M08-0500200U Input: AC 100-240V 50/60Hz 0.5A Output: DC 5V 2A
Maximum Conducted AV Power to Antenna	GSM850: 31.46 dBm PCS1900: 28.99dBm UMTS-FDD Band II : 22.11 dBm
Maximum Radiated ERP/EIRP	GSM850: 27.98 dBm / ERP PCS1900:25.07 dBm / EIRP UMTS-FDD Band II : 16.92 dBm / EIRP
Classification Per Stipulated Test Standard	FCC Part 22(H) & FCC Part 24(E): 2013

Note: in this report, we choice the MT-708 i to test, and all these models are identical in circuitry and RF module, except model name for marketing reasons.

# 2. TECHNICAL DETAILS

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	2. <u>TECHNICAL DETAILS</u>
Purpose	Compliance testing of 7inch Tablet PC with stipulated standard
Applicant / Client	MEERA INTERNATIONAL LIMITED 301 Kam On Building, 176A Queen's Road Central, Central, Hong Kong, China
Manufacturer	Shenzhen Beneworld Technology Co. Ltd. Building 3, Huangtian Industrial Park, Xixiang, Baoan District, Shenzhen, Guangdong, China
Laboratory performing the tests	SIEMIC (Nanjing-China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel:+86(25)86730128/86730129 Fax:+86(25)86730127 Email: China@siemic.com.cn
Test report reference number	13021129-FCC-R1
Date EUT received	December 02, 2013
Standard applied	FCC Part 22(H) & FCC Part 24(E): 2013
Dates of test	January 04 to January 05, 2014
No of Units	#1
<b>Equipment Category</b>	РСВ
Trade Name	N/A
RF Operating Frequency (ies)	GSM850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz PCS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz UMTS-FDD Band II TX :1852.4 ~ 1907.6 MHz; RX : 1932.4 ~ 1987.6 MHz 802.11b/g/n: 2412-2462 MHz Bluetooth: 2402-2480 MHz
Number of Channels	299CH (PCS1900) and 124CH (GSM850) UMTS-FDD Band II : 277CH Bluetooth: 79CH 802.11b/g/n: 11CH
Modulation	GSM / GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: CCK/OFDM Bluetooth: GFSK
GPRS Multi-slot class	8/10/12
Port	Earphone Port, HDMI Port, USB Port
FCC ID	2AASXMTNTB708788I



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# 3. MODIFICATION

Note: All the measured data was performed under the modified WWAN antenna.

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# 4. TEST SUMMARY

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

#### **PCB**

**Test Results Summary** 

Test Standard	Description	Product Class	Pass / Fail
§ 1.1307, § 2.1093	RF Exposure (SAR)	See Above	Pass
§2.1046; § 22.913 (a); § 24.232 (c)	RF Output Power	See Above	Pass
§ 2.1047	Modulation Characteristics	See Above	N/A
§ 2.1049; § 22.905 § 22.917; § 24.238	99% & -26 dB Occupied Bandwidth	See Above	Pass
§ 2.1051, § 22.917 (a); § 24.238 (a)	Spurious Emissions at Antenna Terminal	See Above	Pass
§ 2.1053 § 22.917 (a); § 24.238 (a)	Field Strength of Spurious Radiation	See Above	Pass
§ 22.917 (a); § 24.238 (a)	Out of band emission, Band Edge	See Above	Pass
§ 2.1055 § 22.355; § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	See Above	Pass

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different.

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# 5. <u>MEASUREMENTS, EXAMINATION AND DERIVED</u> <u>RESULTS</u>

# 5.1 §1.1307, §2.1093- RF Exposure (SAR)

**Test Result: Pass** 

The EUT is a portable device, thus requires SAR evaluation; please refer to SIEMIC SAR Report: 13021129-FCC-H

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# 5.2 §2.1046 ;§22.913 (a); §24.232 (c)- RF 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  $\pm 1.5dB$ .

3. Environmental Conditions Temperature 20°C

Relative Humidity 50% Atmospheric Pressure 1019mbar

4. Test date: January 04, 2014 Tested By: Deon Dai

#### **Procedures:**

#### For Conducted Power:

- 1. The transmitter output port was connected to base station.
- 2. Set EUT at maximum power through base station.
- 3. Select lowest, middle, and highest channels for each band and different test mode.

#### For ERP/EIRP:

- 1. The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.
- 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) - the absolute level

Spurious attenuation limit in  $dB = 43 + 10 \text{ Log}_{10}$  (power out in Watts)

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

**Remark:** Conducted Burst Average power for reporting purposes only

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#### **Conducted Power**

## **GSM Mode:**

Burst Average Power (dBm);								
Band		GSN	<b>1</b> 850			GSM	11900	
Channel	128	190	251	Tune up Power tolerant	512	661	810	Tune up Power tolerant
Frequency (MHz)	824.2	836.6	848.8	/	1850.2	1880	1909.8	/
GSM Voice (1 uplink),GMSK	31.46	31.42	31.41	32±1	28.78	28.92	28.99	29±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	31.38	31.35	31.42	32±1	28.23	28.41	28.55	29±1
GPRS Multi-Slot Class 10 (2 uplink),GMSK	30.33	30.41	30.42	30±1	27.32	27.43	27.66	28±1
GPRS Multi-Slot Class 12 (4 uplink),GMSK	28.29	28.39	28.23	28±1	25.11	25.32	25.26	25±1

Remark:

GPRS, CS1 coding scheme.

Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link

Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link

Note: Since GSM mode has higher power, so the test items below were not performed to GPRS mode.

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# **UMTS Mode:**

# **UMTS-FDD Band II**

Band/ Time Slot configuration	Channel	Frequency	Peak power	Average power	Tune up Power tolerant
RMC			(dBm)	(dBm)	22+1/-1dBm
12.2kbps	9262	1852.4	22.15	22.04	22+1/-1dBm
12.28008	9400	1880	22.21	22.13	22+1/-1dBm
HSDPA	9538	1907.6	22.79	21.79	22+1/-1dBm
Subtest1	9262	1852.4	22.11	22.05	22+1/-1dBm
Subtesti	9400	1880	22.17	22.11	22+1/-1dBm
HCDDA	9538	1907.6	22.93	21.85	22+1/-1dBm
HSDPA Subtest2	9262	1852.4	22.13	22.01	22+1/-1dBm
Subtest2	9400	1880	22.17	22.09	22+1/-1dBm
HSDPA	9538	1907.6	22.88	21.81	22+1/-1dBm
Subtest3	9262	1852.4	22.05	22.03	22+1/-1dBm
Sublests	9400	1880	22.11	22.08	22+1/-1dBm
HCDDA	9538	1907.6	22.89	21.81	22+1/-1dBm
HSDPA Subtest4	9262	1852.4	22.13	22.03	22+1/-1dBm
Subtest4	9400	1880	22.17	22.13	22+1/-1dBm
HSUPA	9538	1907.6	22.89	21.83	22+1/-1dBm
Subtest 1	9262	1852.4	22.09	22.05	22+1/-1dBm
Subtesti	9400	1880	22.14	22.11	22+1/-1dBm
HSUPA	9538	1907.6	22.89	21.81	22+1/-1dBm
Subtest2	9262	1852.4	22.05	22.03	22+1/-1dBm
Subtest2	9400	1880	22.16	22.09	22+1/-1dBm
HCHDA	9538	1907.6	22.87	21.79	22+1/-1dBm
HSUPA Subtest3	9262	1852.4	22.05	22.01	22+1/-1dBm
Subtests	9400	1880	22.12	22.01	22+1/-1dBm
HCHDA	9538	1907.6	22.88	21.92	22+1/-1dBm
HSUPA Subtest4	9262	1852.4	22.05	21.82	22+1/-1dBm
Sublest4	9400	1880	22.11	22.03	22+1/-1dBm
IICIIDA	9538	1907.6	22.85	21.83	22+1/-1dBm
HSUPA Subtest5	9262	1852.4	22.03	21.95	22+1/-1dBm
Sublests	9400	1880	22.05	22.03	22+1/-1dBm

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# ERP & EIRP (worst case) ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.20	23.45	V	6.2	1.67	27.98	38.45
824.20	23.22	Н	6.2	1.67	27.75	38.45
836.60	23.28	V	6.2	1.67	27.81	38.45
836.60	22.85	Н	6.2	1.67	27.38	38.45
848.80	23.18	V	6.3	1.67	27.81	38.45
848.80	22.76	Н	6.3	1.67	27.39	38.45

# **EIRP for PCS Band (Part 24E)**

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.20	18.44	V	8.6	2.66	24.38	33
1850.20	17.64	Н	8.6	2.66	23.58	33
1880.00	18.36	V	8.6	2.34	24.62	33
1880.00	17.75	Н	8.6	2.34	24.01	33
1909.80	18.64	V	8.6	2.17	25.07	33
1909.80	17.88	Н	8.6	2.17	24.31	33

# **EIRP for UMTS-FDD Band II (Part 24E)**

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1852.4	10.73	V	8.6	2.66	16.67	33
1852.4	10.45	Н	8.6	2.66	16.39	33
1880	10.66	V	8.6	2.34	16.92	33
1880	10.35	Н	8.6	2.34	16.61	33
1907.6	10.46	V	8.6	2.17	16.89	33
1907.6	10.11	Н	8.6	2.17	16.54	33

Note: Factors= Antenna Gain Correction-Cable Loss

# 5.3 §2.1047 - Modulation Characteristic

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

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# 5.4 §2.1049, §22.917, §22.905 & §24.238 - Occupied Bandwidth

1. Conducted Measurement

EUT was set for low, mid, high channel with modulated mode and highest RF output power.

The spectrum analyser 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  $\pm 1.5dB$ .

4. Test date: January 04, 2014

Tested By: Deon Dai

#### **Procedures:**

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.

2. The 99% and 26 dB occupied bandwidth (BW) of the middle channel for the highest RF powers.

**Test Results: Pass** 

#### Cellular Band (Part 22H)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
128	824.2	245	312
190	836.6	243	313
251	848.8	243	318

#### PCS Band (Part 24E)

Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	243	310
661	1880.0	243	322
810	1909.8	243	313

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#### UMTS-FDD Band II (Part 24E)

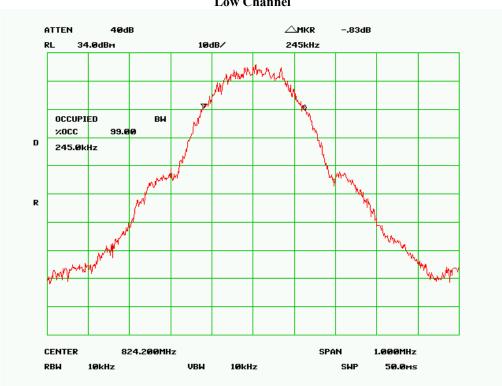
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
9262	1852.4	4.190	4.710
9400	1880.0	4.190	4.740
9538	1907.6	4.190	4.710

Please refer to the following plots.

Cellular Band (Part 22H)

#### 99% Occupied Bandwidth

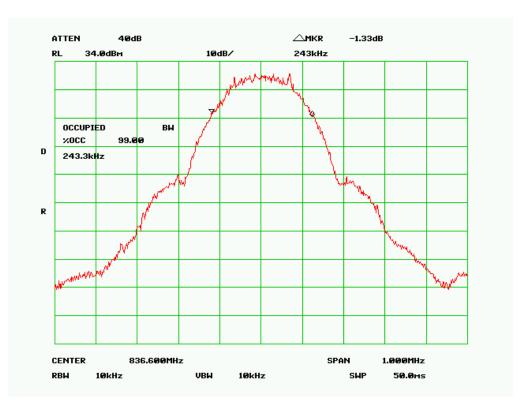
#### **Low Channel**



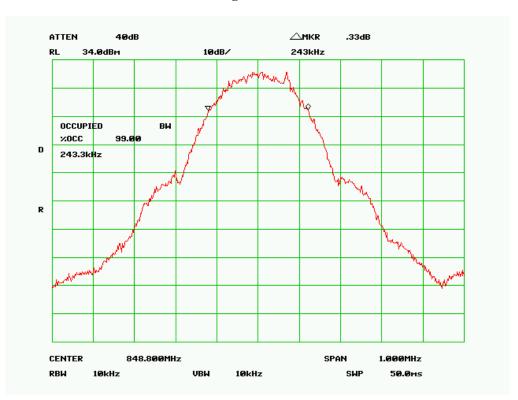
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#### Middle Channel



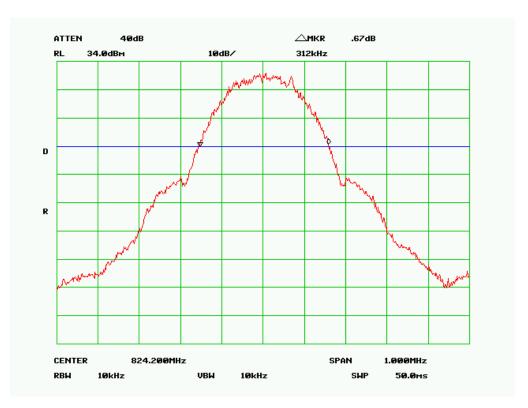
#### **High Channel**



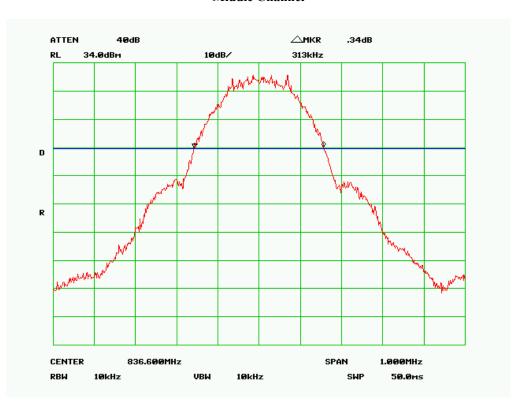
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#### 26 dB Bandwidth **Low Channel**

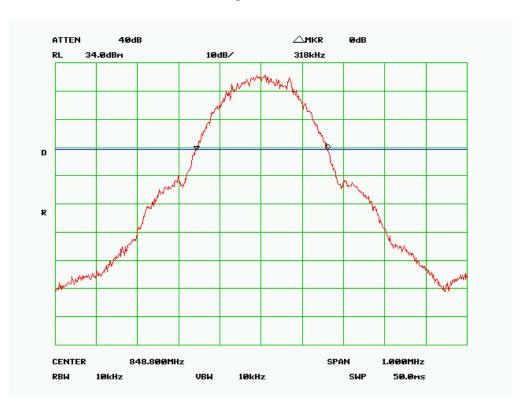


#### Middle Channel



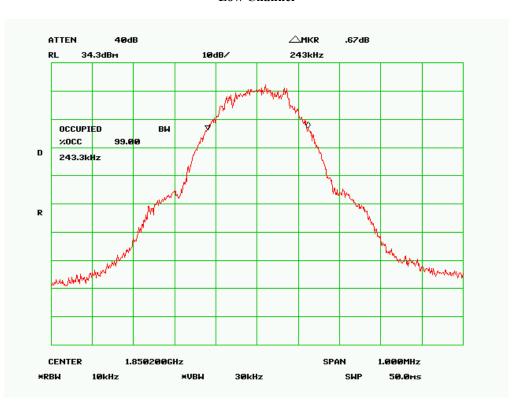
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#### **High Channel**



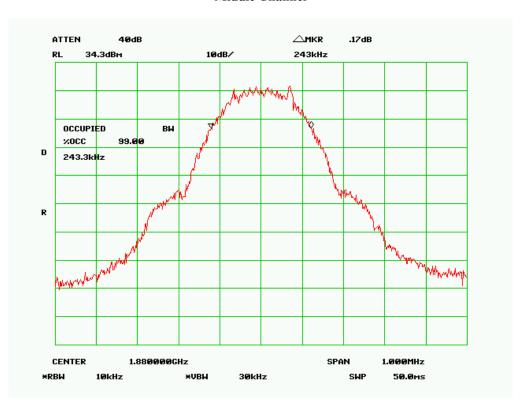
PCS Band (Part 24E)

99% Occupied Bandwidth Low Channel

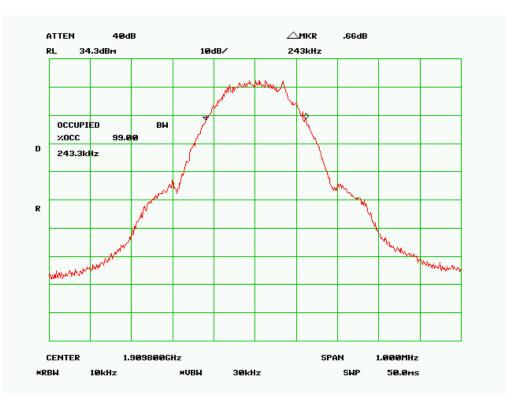


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#### **Middle Channel**

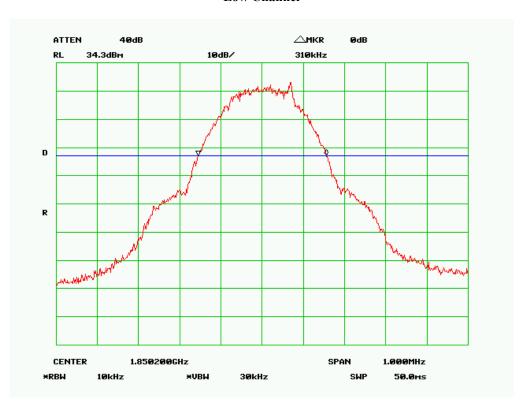


#### **High Channel**

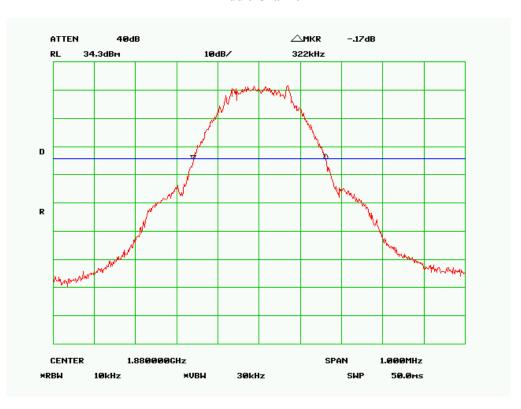


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#### 26 dB Bandwidth Low Channel

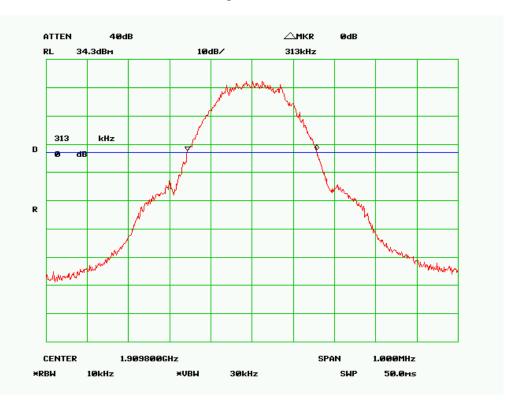


#### **Middle Channel**



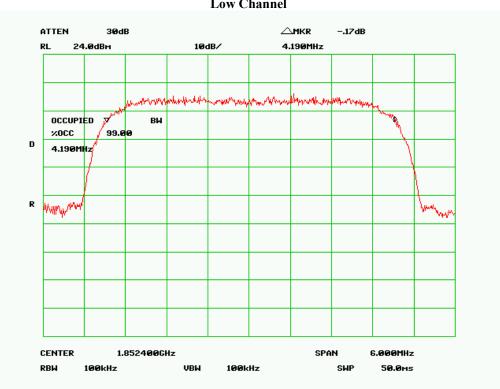
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#### **High Channel**



#### UMTS-FDD Band II (Part 24E)

#### 99% Occupied Bandwidth Low Channel

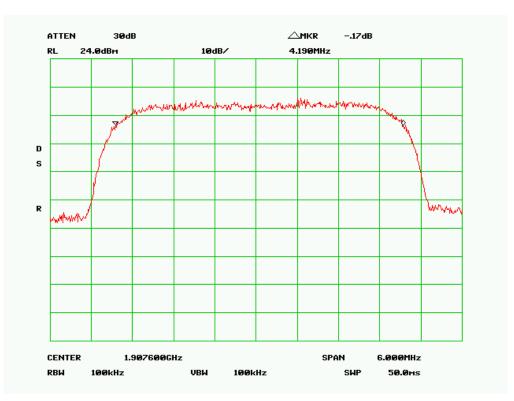


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#### **Middle Channel**

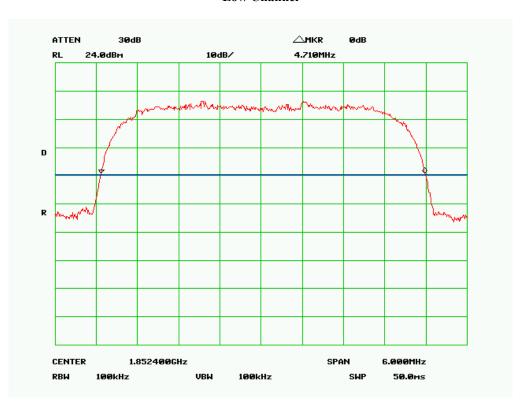


#### **High Channel**

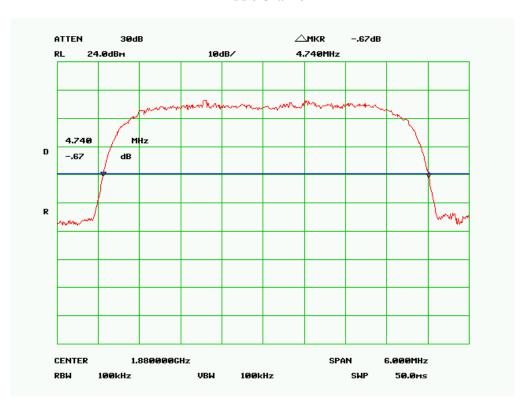


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#### 26 dB Bandwidth Low Channel



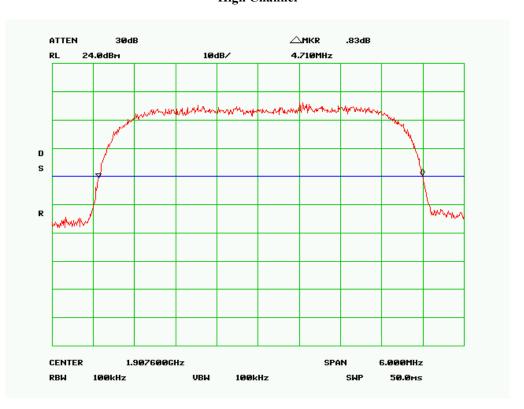
#### **Middle Channel**



## **High Channel**

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# 5.5 §2.1051, §22.917(a) & §24.238(a) - Spurious Emissions at Antenna **Terminals**

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  $\pm 1.5dB$ .

**Environmental Conditions** 3. Temperature 20°C

Relative Humidity 50% Atmospheric Pressure 1019mbar

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4. Test date: January 04, 2014 Tested By: Deon Dai

#### **Standard Requirement:**

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P) dB$ .

#### **Procedures:**

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

#### Test Result: Pass

Refer to the attached plots.

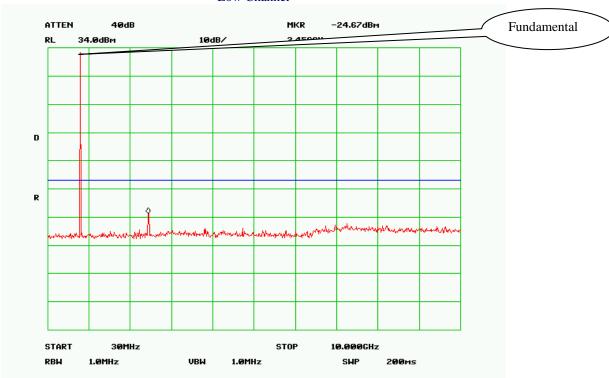
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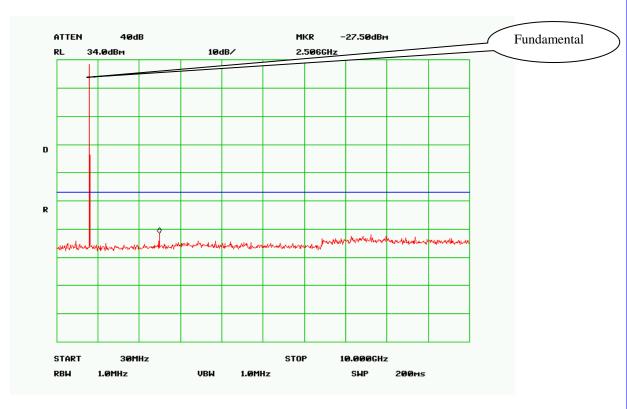
#### Cellular Band (Part 22H)

#### 30MHz-10G - GSM850

#### Low Channel

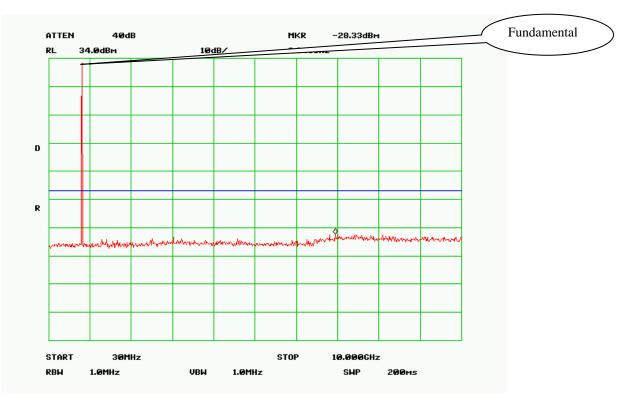


#### Middle Channel



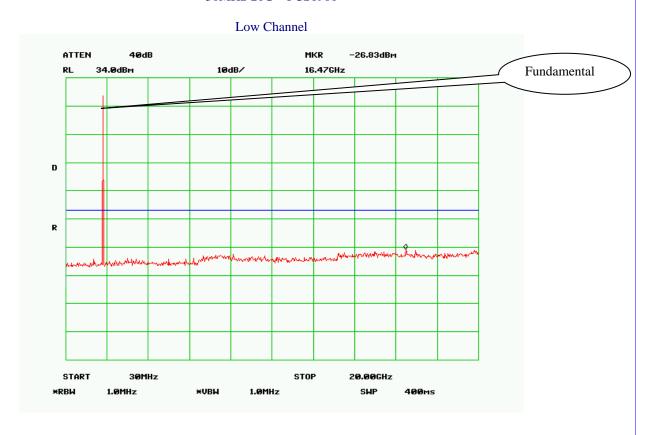
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#### High Channel



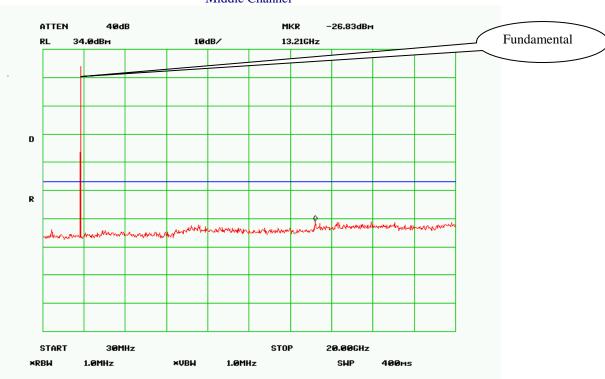
#### PCS Band (Part24E)

#### 30MHz-20G - PCS1900

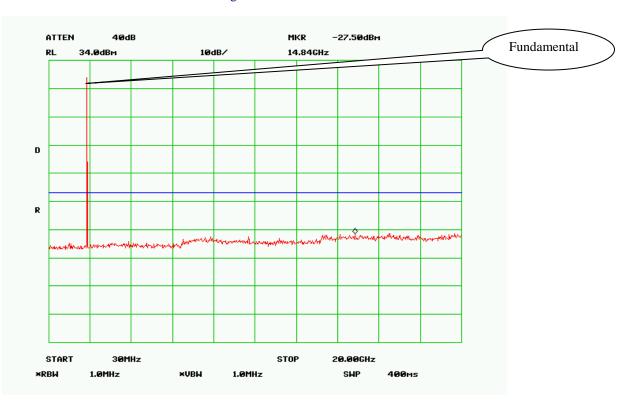


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#### Middle Channel



#### High Channel

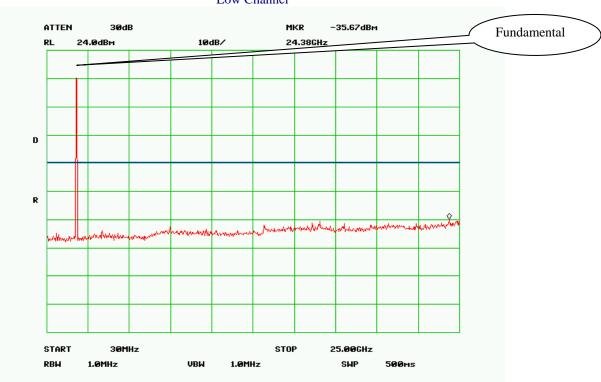


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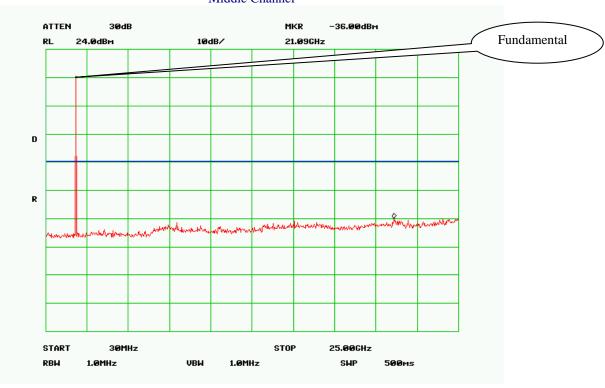
#### UMTS-FDD Band II (Part24E)

#### 30MHz-25G - WCDMA1900

#### Low Channel



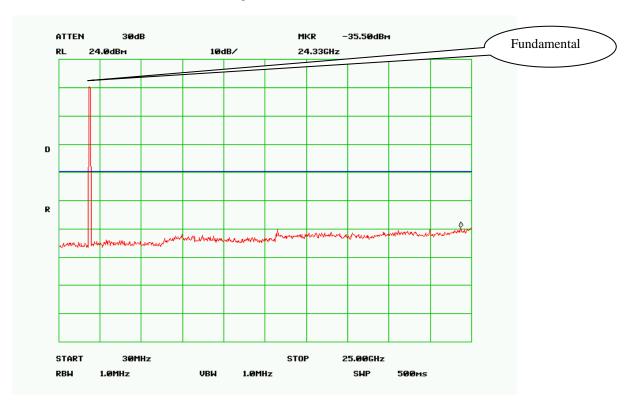
#### Middle Channel



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#### High Channel



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# 5.6 §2.1053, §22.917 & §24.238 - Spurious Radiated Emissions

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.

 A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.

3. Radiated 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 1 GHz - 40 GH is  $\pm 6.0 \text{dB}$  (for EUTs < 0.5 m X 0.5 m X 0.5 m).

4. Environmental Conditions Temperature 20°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

5. Test date: January 05, 2014 Tested By: Deon Dai

#### **Standard Requirement:**

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least  $43 + 10 \log (P) dB$ . The spectrum is scanned from 30 MHz up to a frequency including its  $10^{th}$  harmonic.

#### **Procedures:**

Equipment was setup in a semi-anechoic chamber. For measurements above 1 GHz an average measurement was taken with a 10Hz video bandwidth. The EUT was tested at low, mid and high with the highest output power. An emission was scan up to  $10^{th}$  harmonic of the operating frequency.

#### Sample Calculation:

 $EUT \ Field \ Strength = Raw \ Amplitude \ (dB\mu V/m) - Amplifier \ Gain \ (dB) + Antenna \ Factor \ (dB) + Cable \ Loss \ (dB) + Filter \ Attenuation \ (dB, if used)$ 

**Test Result: Pass** 

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#### Cellular Band (Part 22H)

#### Low channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1648.5	-48.21	102	100	V	7.95	0.78	0	-41.04	-13	-28.04
1648.5	-46.21	211	198	Н	7.95	0.78	0	-39.04	-13	-26.04
574.25	-54.1	200	110	V	6.1	1.5	0	-49.5	-13	-36.5
791.21	-52.79	199	200	Н	6.1	1.67	0	-48.36	-13	-35.36

#### Middle channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.5	-49.93	211	102	V	7.95	0.78	0	-42.76	-13	-29.76
1673.5	-47.27	360	200	Н	7.95	0.78	0	-40.1	-13	-27.1
572.65	-53.42	14	121	V	6.1	1.5	0	-48.82	-13	-35.82
574.11	-53.38	265	195	Н	6.1	1.5	0	-48.78	-13	-35.78

#### High channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1697.5	-49.27	98	120	V	7.95	0.78	0	-42.1	-13	-29.1
1697.5	-48.27	214	192	Н	7.95	0.78	0	-41.1	-13	-28.1
40.21	-55.48	322	102	V	-12.2	0.5	0	-68.18	-13	-55.18
574.24	-49.58	46	200	Н	6.1	1.5	0	-44.98	-13	-31.98

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#### PCS Band (Part 24E)

#### Low channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3700.5	-48.42	149	101	V	10.25	2.73	0	-40.9	-13	-27.9
3700.5	-50.15	213	200	Н	10.25	2.73	0	-42.63	-13	-29.63
574.22	-55.29	321	110	V	6.1	1.5	0	-50.69	-13	-37.69
765.99	-54.95	29	200	Н	6.4	1.84	0	-50.39	-13	-37.39

#### Middle channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-49.9	110	101	V	10.25	2.73	0	-42.38	-13	-29.38
3760	-50.14	213	202	Н	10.25	2.73	0	-42.62	-13	-29.62
38.11	-53.58	13	105	V	-12.2	0.5	0	-66.28	-13	-53.28
575.2	-54.96	223	198	Н	6.1	1.34	0	-50.2	-13	-37.2

#### High channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.5	-51.24	321	110	V	10.36	2.73	0	-43.61	-13	-30.61
3819.5	-52.32	21	199	Н	10.36	2.73	0	-44.69	-13	-31.69
574.11	-52.5	330	101	V	6.1	1.5	0	-47.9	-13	-34.9
736.25	-53.25	99	200	Н	6.4	1.5	0	-48.35	-13	-35.35

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#### UMTS-FDD Band II (Part 24E)

#### Low channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3705	-53.36	321	102	V	10.25	2.73	0	-45.84	-13	-32.84
3705	-52.63	213	200	Н	10.25	2.73	0	-45.11	-13	-32.11
564.21	-53.93	187	121	V	6.3	1.5	0	-49.13	-13	-36.13
745.11	-52.89	205	200	Н	6.4	1.5	0	-47.99	-13	-34.99

#### Middle channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-53.12	33	104	V	10.25	2.73	0	-45.6	-13	-32.6
3760	-51.01	251	205	Н	10.25	2.73	0	-43.49	-13	-30.49
782.25	-56.14	299	105	V	6.1	1.67	0	-51.71	-13	-38.71
564.41	-53.25	300	200	Н	6.3	1.5	0	-48.45	-13	-35.45

#### High channel

Frequency (MHz)	Substituted level (dBm)	Direction (degree)	Height (cm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Amplifier (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3815	-52.36	258	110	V	10.36	2.73	0	-44.73	-13	-31.73
3815	-51.67	143	189	Н	10.36	2.73	0	-44.04	-13	-31.04
575.02	-53.96	295	120	V	6.3	1.5	0	-49.16	-13	-36.16
564.41	-53.01	341	199	Н	6.3	1.5	0	-48.21	-13	-35.21

## 5.7 §22.917(a) & §24.238(a) - Band Edge

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  $\pm 1.5dB$ .

3. Environmental Conditions Temperature 20°C Relative Humidity 50%

Atmospheric Pressure 1019mbar

4. Test date: January 05, 2014 Tested By: Deon Dai

#### **Standard Requirement:**

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least  $43 + 10 \log (P) dB$ .

#### **Procedures:**

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The Band Edges of low and high channels for the highest RF powers were measured. Setting RBW as roughly BW/100.

**Test Result: Pass** 

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Refer to the attached plots.

# Cellular Band (Part 22H)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.9825	-15.58	-13
849.0200	-14.25	-13

# PCS Band (Part 24E)

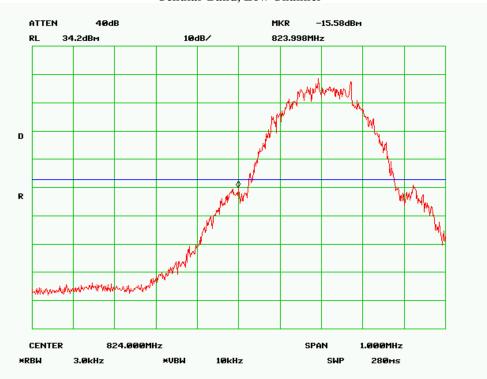
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.9950	-14.86	-13
1910.0025	-15.15	-13

# UMTS-FDD Band II (Part 24E)

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1850.000	-30.83	-13
1910.000	-28.50	-13

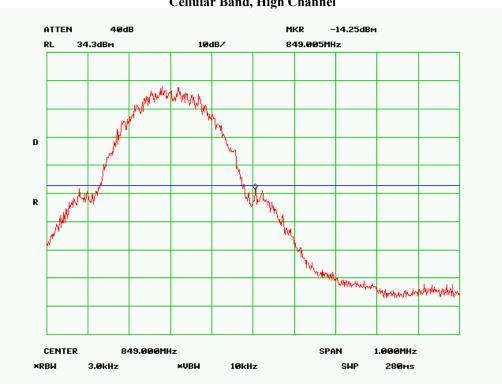
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#### Cellular Band, Low Channel



Note: Offset=Cable loss (4.0) + 10log (3.12/3)=4.0+0.2=4.2 dB

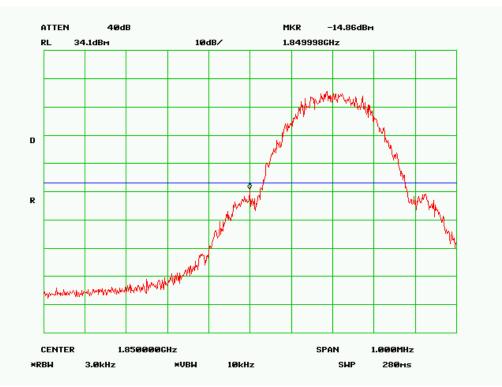
## Cellular Band, High Channel



Note: Offset=Cable loss (4.0) + 10log (3.18/3)=4.0+0.3=4.3 dB

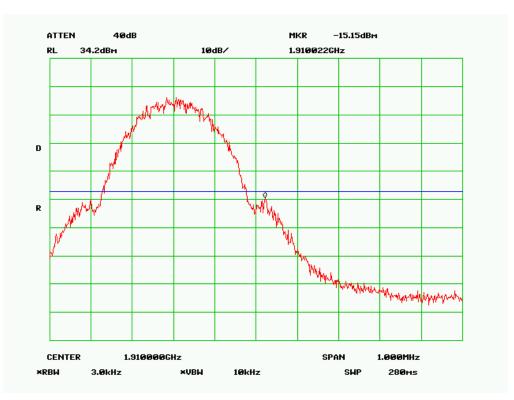
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#### **PCS Band, Low Channel**



Note: Offset=Cable loss (4.0) + 10log (3.1/3)=4.0+0.1=4.1 dB

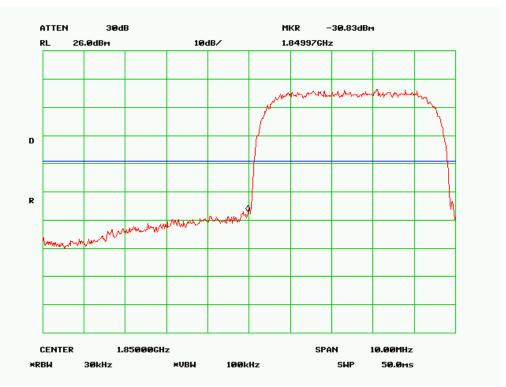
## **PCS Band, High Channel**



Note: Offset=Cable loss  $(4.0) + 10\log (3.13/3)=4.0+0.2=4.2 \text{ dB}$ 

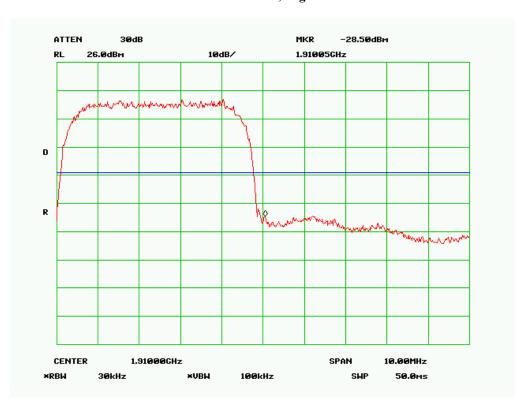
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### UMTS-FDD Band II, Low Channel



Note: Offset=Cable loss (4.0) + 10log (47.1/30)=4.0+2=6 dB

## UMTS-FDD Band II, High Channel



Note: Offset=Cable loss (4.0) + 10log (47.1/30)=4.0+2=6 dB

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# 5.8 §2.1055, §22.355 & §24.235 - Frequency Stability

 1.
 Environmental Conditions
 Temperature
 20°C

 Relative Humidity
 50%

 Atmospheric Pressure
 1019mbar

2. Test date: January 05, 2014 Tested By: Deon Dai

# **Standard Requirement:**

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.

#### **Procedures:**

A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage.

Limit: The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5$ ppm) of the center frequency.

**Test Results: Pass** 

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**Frequency Stability versus Temperature:** The Frequency tolerance of the carrier signal shall be maintained within 2.5ppm of the operating frequency over a temperature variation of -10°C to +55°C at normal supply voltage.

# **Cellular Band (Part 22H)**

	Middle Channel, f <sub>0</sub> = 836.6 MHz			
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		22	0.0263	2.5
0		18	0.0215	2.5
10		35	0.0418	2.5
20	3.7	29	0.0347	2.5
30		35	0.0418	2.5
40		21	0.0251	2.5
50		25	0.0299	2.5
55		29	0.0347	2.5
25	4.2	25	0.0299	2.5
23	3.5	27	0.0323	2.5

# PCS Band (Part 24E)

	Middle Channel, f <sub>o</sub> = 1880 MHz			
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		22	0.0117	2.5
0		21	0.0112	2.5
10		28	0.0149	2.5
20	3.7	31	0.0165	2.5
30		25	0.0133	2.5
40		18	0.0096	2.5
50		24	0.0128	2.5
55		21	0.0112	2.5
25	4.2	25	0.0133	2.5
25	3.5	30	0.0160	2.5

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# UMTS-FDD Band II (Part 24E)

	Middle Channel, f <sub>o</sub> = 1880 MHz			
Temperature (°C)	Power Supplied (V <sub>DC</sub> )	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		9	0.0048	2.5
0		11	0.0059	2.5
10		-4	-0.0021	2.5
20	3.7	18	0.0096	2.5
30		15	0.0080	2.5
40		11	0.0059	2.5
50		4	0.0021	2.5
55		18	0.0096	2.5
25	4.2	5	0.0027	2.5
25	3.5	-7	-0.0037	2.5

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

# Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
RF conducted test				
Hp Spectrum Analyzer	8563E	3821A09023	09/27/2013	09/26/2014
Power Splitter	1#	1#	02/02/2013	02/01/2014
Universal Radio Communication Tester	CMU200	104031	09/27/2013	09/26/2014
Temperature/Humidity Chamber	1007H	N/A	01/08/2013	01/07/2014
DC Power Supply	PS-305D	010943059	02/22/2013	02/21/2014
Radiated Emissions				
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
ETS-Lindgren 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	1451710	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

## Annex A. ii. RADIATED EMISSIONS TEST DESCRIPTION

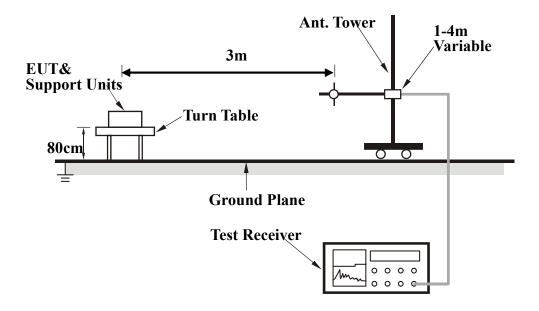
#### **EUT Characterisation**

EUT characterisation, over the frequency range from 30MHz to 1GHz (for FCC tests, until the  $10^{th}$  harmonic for operating frequencies  $\geq 108$ MHz),, 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 or 10m 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 EMC 3m chamber.

#### **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-metallic 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.



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#### **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 a open test site or EMC 10m chamber. 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  $0 \circ to 360 \circ with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.$
- 5. Repeat step 4 until all frequencies need to be measured were complete.
- 6. Repeat step 5 with search antenna in vertical polarized orientations.

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

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

#### **Description of Radiated 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 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:

Peak = Reading + Corrected Factor

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any) And the average value is

Average = Peak Value + Duty Factor or Set RBW = 1MHz, VBW = 10Hz.

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.

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#### **EUT AND TEST SETUP PHOTOGRAPHS** Annex B.

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

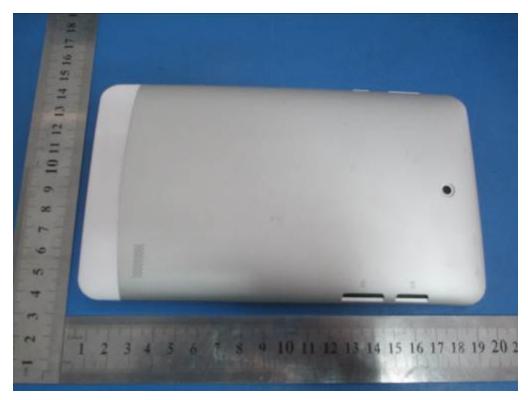


Whole Package - Top View

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**EUT - Front View** 



EUT - Rear View

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EUT - Top View



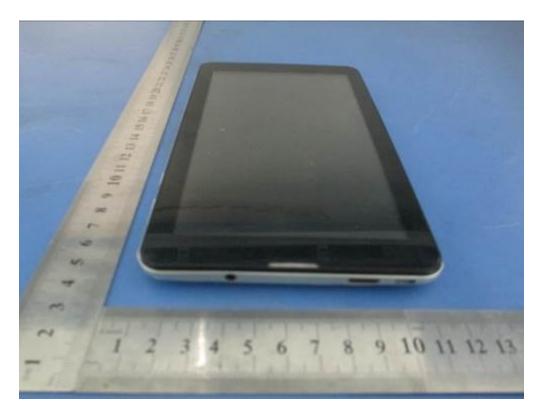
EUT - Bottom View

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EUT - Left View



EUT - Right View



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



Cover Off - Top View 1



Cover Off - Top View 2

BT/ WIFI

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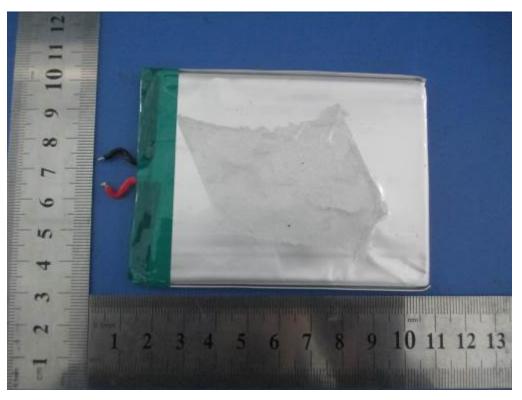


2G / 3G antenna - Front View



Battery - Top View

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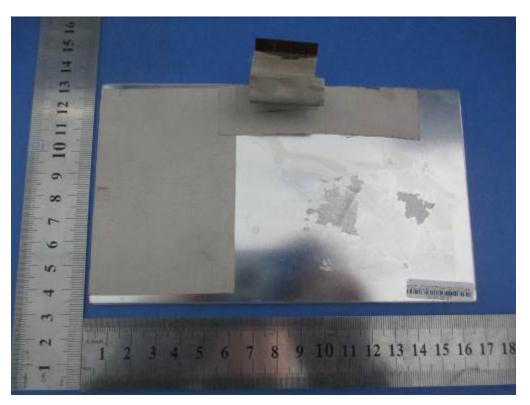
Battery - Bottom View



LCD - Top View

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LCD - Bottom View

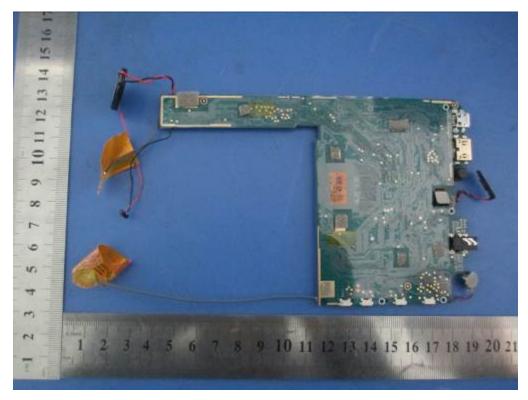


3G Module - Top View

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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



Radiated Spurious Emissions Test Setup Below 1GHz - Front View



Radiated Spurious Emissions Test Setup Above 1GHz -Rear View

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# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

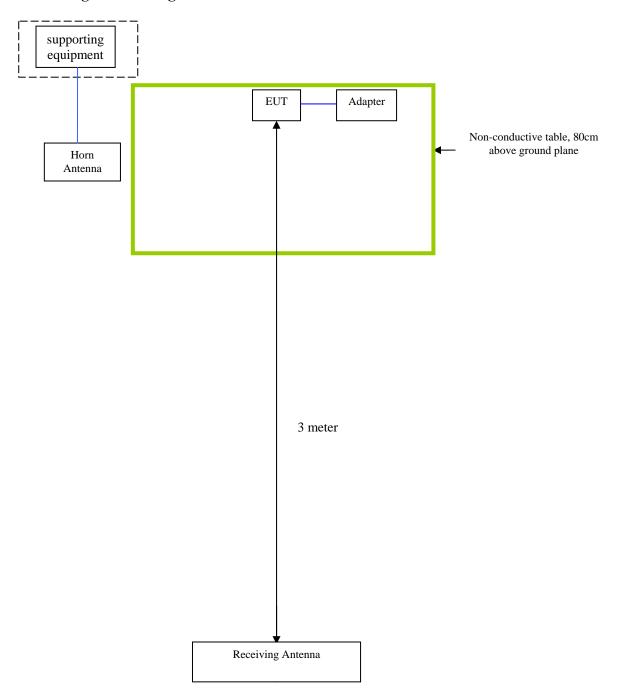
# **EUT TEST CONDITIONS**

# Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

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

Manufacturer	Equipment Description (Including Brand Name)	Model	Calibration Date	Calibration Due Date
A-INFOMW	Horn Antenna	JXTXLB-10180	10/09/2013	10/08/2014
Rohde & Schwarz	Universal Radio Communication Tester	CMU200	09/27/2013	09/26/2014

# **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 communicating with base station and set to work at maximum output power.
Others Testing	The EUT was communicating with base station and set to work at maximum output power.



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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

Date: 12/2/2013

Model Difference Description

We, MEERA INTERNATIONAL LIMITED, state that all model numbers for the product 7inch Tablet PC, FCC ID: 2AASXMTNTB708788I, namely MT-708 i, NTB-708 i, MT-788 i, NTB-788 i, are identical in circuitry and RF module, except model name for marketing reasons.

Signatory

# Kalwani

Client's name / title : Prakash Kalwani, General Manager

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FAX: (852) 2544-5373