### **MEERA INTERNATIONAL LIMITED**

7.85inch Tablet PC

**Main Model: MT-786 IPS** 

**Serial Model: NTB-786 IPS** 

**April 14, 2014** 

Report No.: 14020105-FCC-R3 (This report supersedes none)



**Modifications made to the product: None** 

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

Jason Wang

Alexo Lin



Jason Wang Compliance Engineer Alex Liu Technical Manager

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# RETEST Report

SIEMIC, INC.

14020105-FCC-R3 April 14, 2014 2 of 74 www.siemic.com

### **Laboratory Introduction**

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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		



Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 3 of 74 www.siemic.com

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14020105-FCC-R3 April 14, 2014 4 of 74 www.siemic.com

### **CONTENTS**

1	EXECUTIVE SUMMARY & EUT INFORMATION	5
2	TECHNICAL DETAILS	6
3	MODIFICATION	7
4	TEST SUMMARY	8
5	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	9
ANI	NEX A. TEST INSTRUMENT & METHOD	53
ANI	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	58
ANI	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	69
ANI	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST	73
AN	NEX E. DECLARATION OF SIMILARITY	74

14020105-FCC-R3 April 14, 2014 5 of 74 www.siemic.com

### 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-786 IPS against the current Stipulated Standards. The 7.85inch Tablet PC has demonstrated compliance with the FCC Part 15.247: 2013, ANSI C63.4: 2009.

### **EUT Information**

EUT Description	7.85inch Tablet PC		
Main Model	MT-786 IPS		
Serial Model	NTB-786 IPS		
Antenna Gain	GSM850: -1.5 dBi UMTS-FDD Band II: 0.95dBi PCS1900: 0.8dBi Bluetooth:1.15dBi WIFI: 1.15 dBi		
Input Power	Adapter: Model: XHY050200UUCH Input: AC 100-240V 50/60Hz 0.5A MAX Output: DC 5V 2A Li-ion Battery: 3.7V 3800mAh		
Classification Per Stipulated Test Standard	ed FCC Part 15.247: 2013, ANSI C63.4: 2009		

Note: in this report, we choice the MT-786 IPS to test, and the two models are identical in constructions, circuit diagram and PCB layout. Only model name are different.

14020105-FCC-R3 April 14, 2014 6 of 74 www.siemic.com

### 2 TECHNICAL DETAILS

	2 IECHNICAL DETAILS
Purpose	Compliance testing of 7.85inch 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	14020105-FCC-R3
Date EUT received	March 04, 2014
Standard applied	FCC Part 15.247: 2013, ANSI C63.4: 2009
Dates of test (from – to)	March 12 to April 11, 2014
No of Units :	#1
Equipment Category :	DTS
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 []: 277CH Bluetooth: 79CH 802.11b/g/n: 11CH
Modulation	GSM / GPRS: GMSK UMTS-FDD: QPSK 802.11b/g/n: CCK/OFDM Bluetooth: GFSK&π/4-DQPSK &8DPSK
GPRS Multi-slot class	8/10
Port	Earphone Port, HDMI Port, Power Port
FCC ID:	2AASXMTNTB786IPS



14020105-FCC-R3 April 14, 2014 7 of 74 www.siemic.com Report No.: Issue Date: Page:

## **3 MODIFICATION**

N/A

14020105-FCC-R3 April 14, 2014 8 of 74 www.siemic.com

### 4 TEST SUMMARY

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

### **Test Results Summary**

FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.247 (a)(2)	DTS (6 dB&20 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247(d)	Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands	Compliance

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 9 of 74 www.siemic.com

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

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

The EUT is a portable device, thus requires SAR evaluation; please refer to SIEMIC RF Exposure Report: 14020105-FCC-H2

14020105-FCC-R3 April 14, 2014 10 of 74 www.siemic.com

### **<u>5.2</u>** <u>§15.203 - ANTENNA REQUIREMENT</u>

### **Applicable Standard**

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.

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 1.15 dBi;

a monopole antenna for WIFI, the gain is 1.15 dBi

.a PIFA antenna for GSM, the gain are -1.5dBi for GSM, 0.8 dBi for PCS

.a PIFA antenna for WCDMA the gain is 0.95dBi for Band II

which in accordance to section 15.203, please refer to the internal photos.

**Result:** Compliance.

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 11 of 74 www.siemic.com

### 5.3 §15.247(a) (2) –DTS (6 dB&20 dB) CHANNEL BANDWIDTH

1. <u>Conducted Measurement</u>

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  $\pm 1.5dB$ .

4. Test date: March 12, 2014 Tested By: Jason Wang

**Requirement(s):** The minimum 6 dB bandwidth of a DTS transmission shall be at least 500 kHz. Within this document, this bandwidth is referred to as the DTS bandwidth. The procedures provided herein for measuring the maximum peak conducted output power assume the use of the DTS bandwidth.

### **Procedures:**

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW)  $\geq$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### Test Result: Pass.

Please refer to the following tables and plots.

SIEMIC, INC.

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RF Test Report for 7.85inch Tablet PC
Main Model: MT-786 IPS
Serial Model: NTB-786 IPS
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

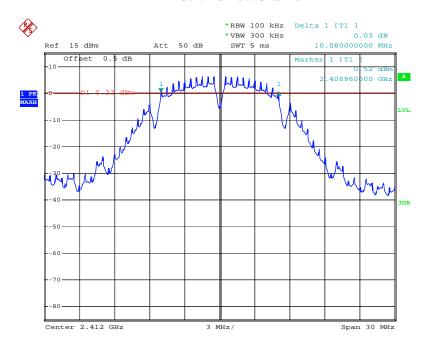
Report No.: Issue Date: Page:

14020105-FCC-R3 April 14, 2014 12 of 74 www.siemic.com

### 6dB bandwidth:

Channel	Channel Frequency (MHz)	Data Rate (Mbps)	Measured 6dB Bandwidth (MHz)	FCC Part 15.247 Limit (kHz)		
		802.11b mode				
Low	2412	1	10.08	>500		
Middle	2437	1	10.02	>500		
High	2462	1	10.08	>500		
	802.11g mode					
Low	2412	6	15.54	>500		
Middle	2437	6	15.66	>500		
High	2462	6	15.54	>500		
802.11n mode						
Low	2412	MCS0	16.56	>500		
Middle	2437	MCS0	16.32	>500		
High	2462	MCS0	16.86	>500		

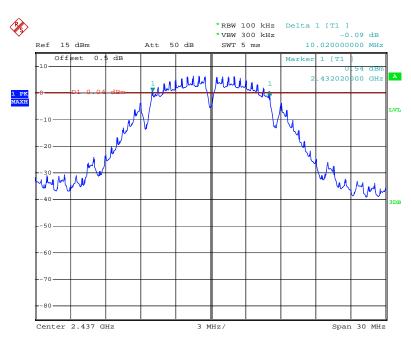
### 802.11b Low Channel



Date: 12.MAR.2014 13:27:02

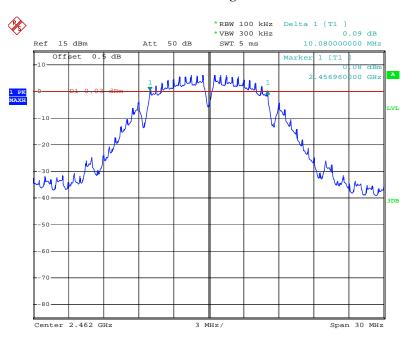
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 13 of 74 www.siemic.com

### 802.11b Middle Channel



Date: 12.MAR.2014 13:31:16

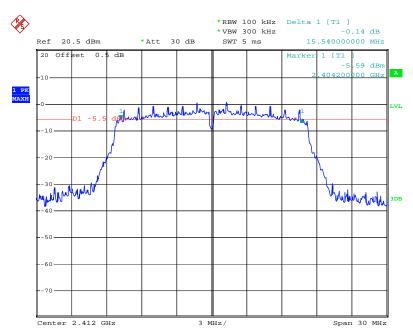
### 802.11b High Channel



Date: 12.MAR.2014 13:33:25

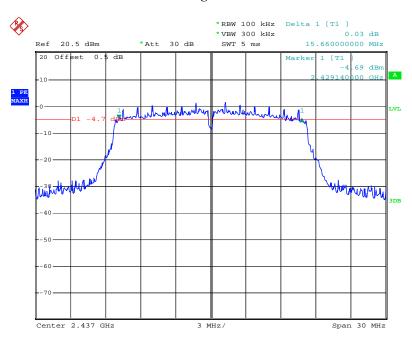
### Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 14 of 74 www.siemic.com

### 802.11g Low Channel



Date: 12.MAR.2014 14:35:41

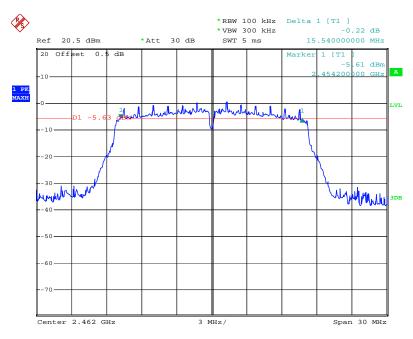
### 802.11g Middle Channel



Date: 12.MAR.2014 14:38:52

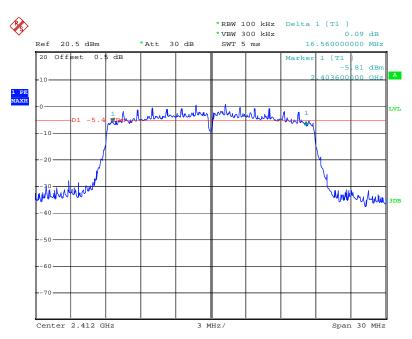
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 15 of 74 www.siemic.com

### 802.11g High Channel



Date: 12.MAR.2014 14:41:05

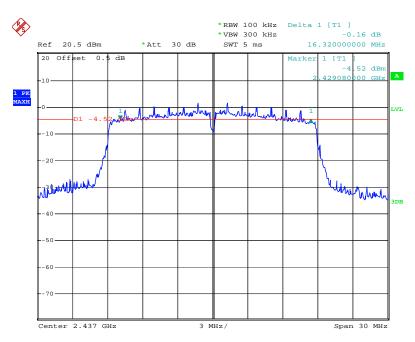
### 802.11n Low Channel



Date: 12.MAR.2014 15:02:30

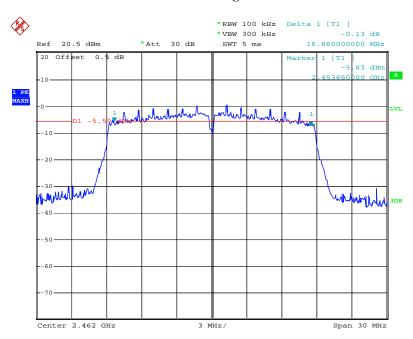
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 16 of 74 www.siemic.com

### 802.11n Middle Channel



Date: 12.MAR.2014 14:57:18

### 802.11n High Channel



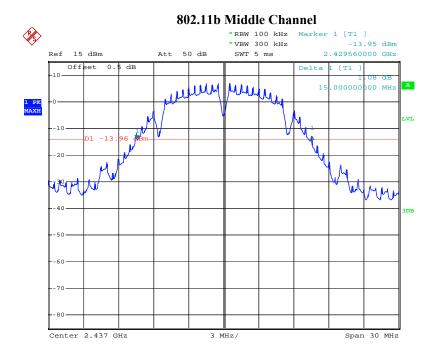
Date: 12.MAR.2014 14:53:56

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 17 of 74 www.siemic.com

### The 20dB bandwidth:



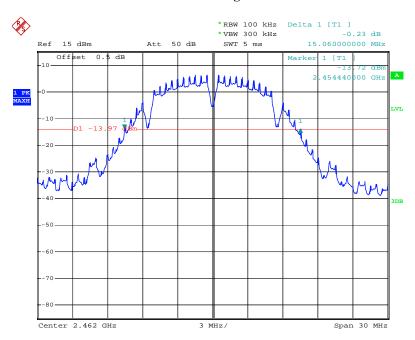
Date: 12.MAR.2014 14:03:39



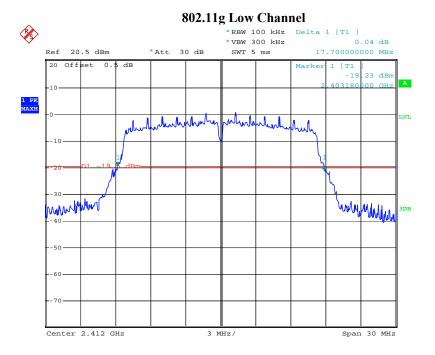
Date: 12.MAR.2014 14:01:08

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 18 of 74 www.siemic.com

### 802.11b High Channel



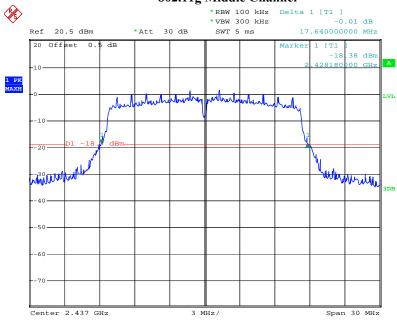
Date: 12.MAR.2014 13:39:54



Date: 12.MAR.2014 14:48:00

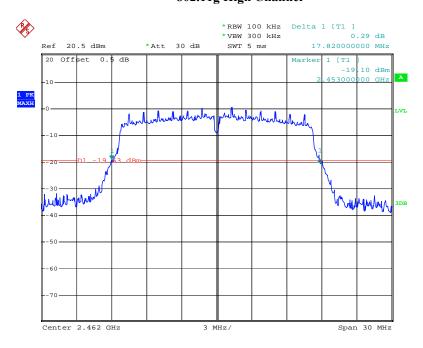
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 19 of 74 www.siemic.com

### 802.11g Middle Channel



Date: 12.MAR.2014 14:46:18

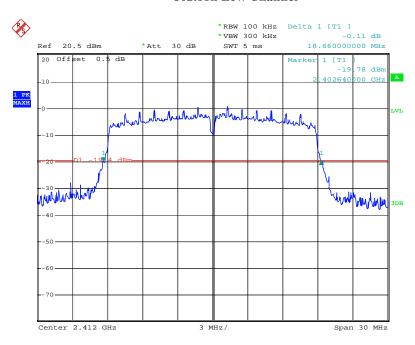
### 802.11g High Channel



Date: 12.MAR.2014 14:50:59

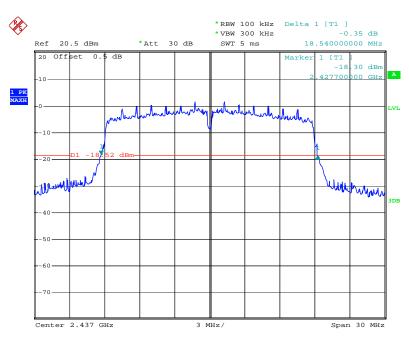
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 20 of 74 www.siemic.com

### 802.11n Low Channel



Date: 12.MAR.2014 15:01:05

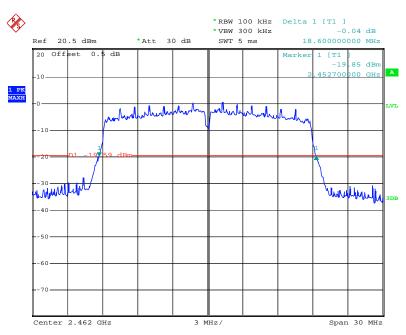
### 802.11n Middle Channel



Date: 12.MAR.2014 14:58:24

14020105-FCC-R3 April 14, 2014 21 of 74 www.siemic.com

### 802.11n High Channel



Date: 12.MAR.2014 14:55:44

14020105-FCC-R3 April 14, 2014 22 of 74 www.siemic.com

### 5.4 §15.247(b) (3) - Conducted Maximum 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 : April 11, 2014 Tested By : Jason Wang

### **Standard Requirement:**

### **Maximum Peak Conducted Output Power**

The following procedures can be used to determine the maximum peak conducted output power of a DTS EUT.

### **Maximum Conducted Output Power**

§15.247(b)(3) permits the maximum (average) conducted output power to be measured as an alternative to the maximum peak conducted output power for demonstrating compliance to the limit. When these procedures are utilized, the power is referenced to the emission bandwidth (EBW) rather than the DTS bandwidth (see Section 2.0 for definitions).

When using a spectrum/signal analyzer to perform these measurements, it must be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW in order to ensure bin-to-bin spacing of  $\leq$  RBW/2 so that narrowband signals are not lost between frequency bins.

The ideal method for measuring the maximum (average) conducted output power is with the EUT is configured to transmit continuously (duty cycle  $\geq$  98%) at its maximum power control level. However, when this condition cannot be realized, video triggering or signal gating can be used to ensure that the measurements are performed only during periods when the EUT is transmitting at its maximum power control level. An option is also provided that can be used when none of the above requirements can be met with the available measurement instrumentation.

### **Procedures:**

### Maximum peak conducted output power:

### **Integrated band power method**

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

- 1. Set the RBW = 1 MHz.
- 2. Set the VBW  $\geq 3 \times RBW$
- 3. Set the span  $\geq$  1.5 x DTS bandwidth.
- Detector = peak.
- 5. Sweep time = auto couple.
- Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function. sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

### Maximum conducted (average) output power:

### Method AVGSA-1 (trace averaging with the EUT transmitting at full power throughout each sweep)

This procedure should be used with an RMS power averaging detector; however, a sample detector can be used when an RMS detector is not available. This is the baseline method for measuring the maximum (average) conducted output power.

- 1. Set span to at least 1.5 times the OBW.
- 2. Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 23 of 74 www.siemic.com

- 3. Set  $VBW \ge 3 \times RBW$ .
- 4. Number of points in sweep  $\geq 2$  x span / RBW. (This gives bin-to-bin spacing  $\leq$  RBW/2, so that narrowband signals are not lost between frequency bins.)
- 5. Sweep time = auto.
- 6. Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- 7. If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- 8. Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- 9. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Test Result: Pass.

Please refer to the following tables and plots.

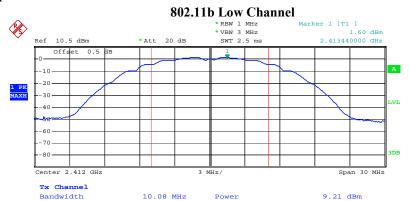
### The Power

Channel	Channel Frequency (MHz)	Data Rate (Mbps)	PK Output Power (dBm)	AV Output Power (dBm)	Limit (dBm)
		802.11b mod	le		
Low	2412	1	9.21	6.20	30
Middle	2437	1	9.53	6.61	30
High	2462	1	9.29	6.88	30
802.11g mode					
Low	2412	6	11.54	6.96	30
Middle	2437	6	11.75	8.03	30
High	2462	6	11.57	8.46	30
802.11n mode					
Low	2412	MCS0	11.53	9.01	30
Middle	2437	MCS0	11.70	8.28	30
High	2462	MCS0	11.01	8.55	30

# SIEMIC, INC. Accessing global markets RF Test Report for 7.85inch Tablet PC Main Model: MT-786 IPS Serial Model: NTB-786 IPS To: FCC Part 15.247: 2013, ANSI C63.4: 2009

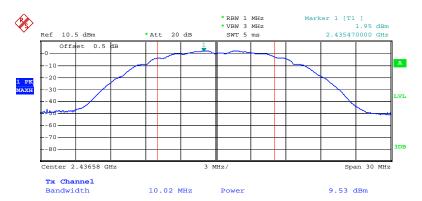
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 24 of 74 www.siemic.com

### The Peak Power



Date: 11.APR.2014 11:42:56

### 802.11b Middle Channel



Accessing global markets
Title: RF Test Report for 7.85inch Tablet PC
Main Model: MT-786 IPS
Serial Model: NTB-786 IPS
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: Issue Date: Page:

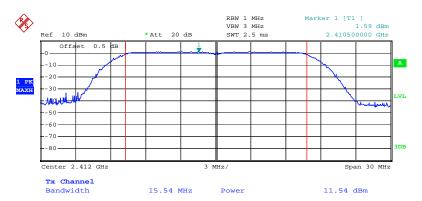
14020105-FCC-R3 April 14, 2014 25 of 74 www.siemic.com

### 802.11b High Channel



Date: 11.APR.2014 11:50:22

### 802.11g Low Channel



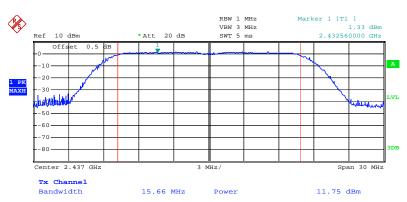
Date: 14.APR.2014 09:03:59

Accessing global markets
Title: RF Test Report for 7.85inch Tablet PC
Main Model: MT-786 IPS
Serial Model: NTB-786 IPS
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: Issue Date: Page:

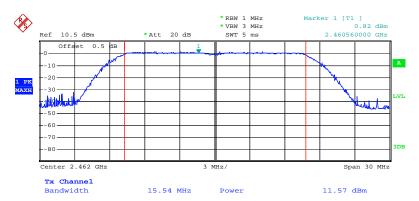
14020105-FCC-R3 April 14, 2014 26 of 74 www.siemic.com

### 802.11g Middle Channel



Date: 14.APR.2014 09:05:58

### 802.11g High Channel



Date: 11.APR.2014 11:55:39

Accessing global markets
Title: RF Test Report for 7.85inch Tablet PC
Main Model: MT-786 IPS
Serial Model: NTB-786 IPS
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: Issue Date: Page:

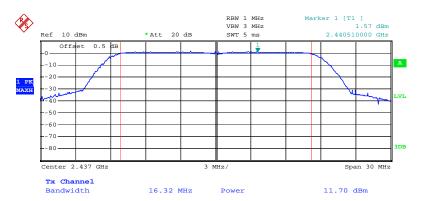
14020105-FCC-R3 April 14, 2014 27 of 74 www.siemic.com

### 802.11n Low Channel



Date: 14.APR.2014 09:12:25

### 802.11n Middle Channel

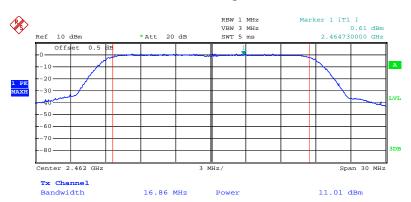


Date: 14.APR.2014 09:08:22

# SIEMIC, INC. Accessing global markets RF Test Report for 7.85inch Tablet PC Main Model: MT-786 IPS Serial Model: NTB-786 IPS To: FCC Part 15.247: 2013, ANSI C63.4: 2009

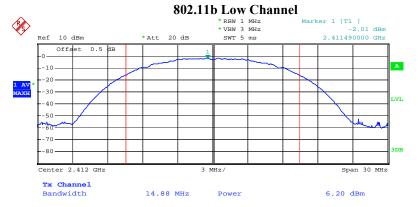
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 28 of 74 www.siemic.com

### 802.11n High Channel



Date: 14.APR.2014 09:15:20

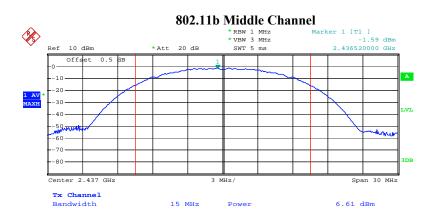
### The Average Power



Date: 14.APR.2014 09:31:40

# SIEMIC, INC. Accessing global markets RF Test Report for 7.85inch Tablet PC Main Model: MT-786 IPS Serial Model: NTB-786 IPS To: FCC Part 15.247: 2013, ANSI C63.4: 2009





Date: 14.APR.2014 09:30:09

### 802.11b High Channel



Date: 14.APR.2014 09:32:34

Accessing global markets
Title: RF Test Report for 7.85inch Tablet PC
Main Model: MT-786 IPS
Serial Model: NTB-786 IPS
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: Issue Date: Page:

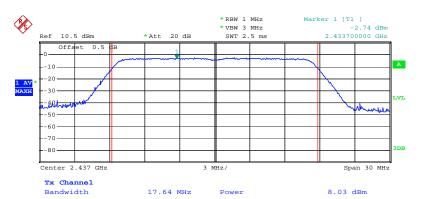
14020105-FCC-R3 April 14, 2014 30 of 74 www.siemic.com

### 802.11g Low Channel



Date: 14.APR.2014 10:36:23

### 802.11g Middle Channel



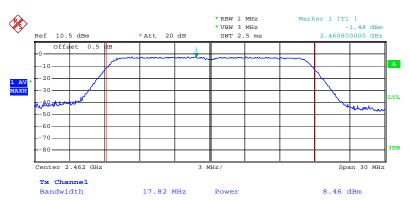
Date: 14.APR.2014 10:40:22

Accessing global markets
Title: RF Test Report for 7.85inch Tablet PC
Main Model: MT-786 IPS
Serial Model: NTB-786 IPS
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: Issue Date: Page:

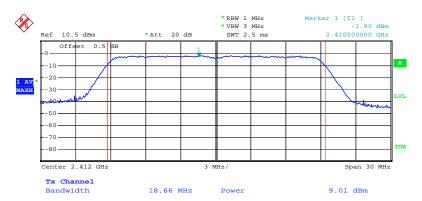
14020105-FCC-R3 April 14, 2014 31 of 74 www.siemic.com

### 802.11g High Channel



Date: 14.APR.2014 10:41:15

### 802.11n Low Channel



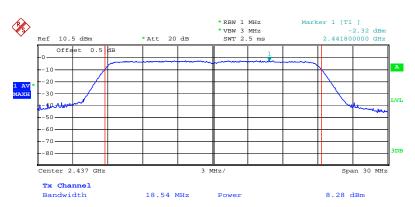
Date: 14.APR.2014 10:38:15

# SIEMIC, INC. Accessing global markets Title: RF Test Report for 7.85inch Tablet PC Main Model: MT-786 IPS Serial Model: NTB-786 IPS To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: Issue Date: 14020105-FCC-R3 April 14, 2014 32 of 74 Page:

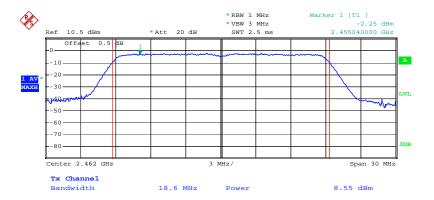
www.siemic.com

### 802.11n Middle Channel



Date: 14.APR.2014 10:39:27

### 802.11n High Channel



Date: 14.APR.2014 10:42:07

Report No .: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 33 of 74

### 5.5 §15.247(e) - Power Spectral Density

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.

20°C 2. **Environmental Conditions** Temperature

Relative Humidity 50% 1019mbar Atmospheric Pressure

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  $\pm 1.5dB$ .

Test date: March 12, 2014 4.

Tested By: Jason Wang

### Requirement(s):

A conducted power spectral density (PSD) limit of 8 dBm in any 3 kHz band segment within the DTS bandwidth is specified during any time interval of continuous transmission. 4 By rule, the same method as used to determine the conducted output power shall be used to determine the power spectral density (i.e., if maximum peak conducted output power was measured then the peak PSD procedure shall be used and if maximum conducted output power was measured then the average PSD procedure shall be used).

If the average PSD is measured with a power averaging (RMS) detector or a sample detector, then the spectrum analyzer must be capable of utilizing a number of measurement points in each sweep that is greater than or equal to twice the span/RBW in order to ensure bin-to-bin spacing of  $\leq$  RBW/2 so that narrowband signals are not lost between frequency bins.

### **Procedures:**

This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS channel bandwidth. 2.
- Set the RBW  $\geq$  3 kHz. 3.
- 4. Set the VBW  $\geq$  3 x RBW.
- 5. Detector = peak.
- Sweep time = auto couple. 6.
- 7. Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Result: Pass.

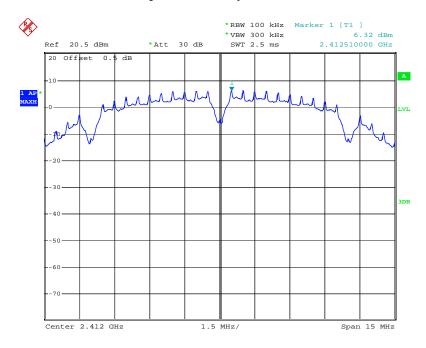
Report No.: 1402 Issue Date: Apri Page: 34 of

14020105-FCC-R3 April 14, 2014 34 of 74 www.siemic.com

Please refer to the following tables and plots.

Channel	Frequency (MHz)	Data Rate	PSD (dBm)	Limit (dBm)		
	802.11b mode					
Low	2412	1	6.32	8		
Middle	2437	1	6.62	8		
High	2462	1	6.17	8		
	802.11g mode					
Low	2412	6	0.51	8		
Middle	2437	6	1.49	8		
High	2462	6	0.43	8		
	802.11n mode					
Low	2412	MCS0	0.72	8		
Middle	2437	MCS0	1.60	8		
High	2462	MCS0	0.56	8		

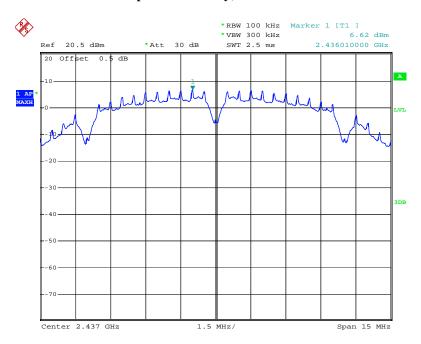
### Power Spectral Density, 802.11b Low Channel



Date: 12.MAR.2014 15:50:25

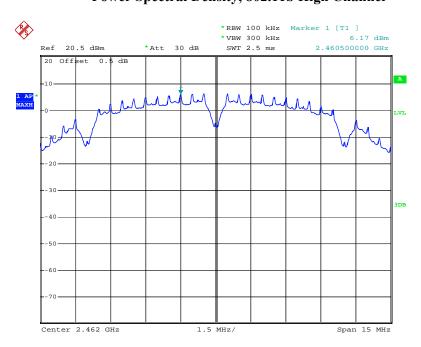
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 35 of 74 www.siemic.com

### Power Spectral Density, 802.11b Middle Channel



Date: 12.MAR.2014 15:49:29

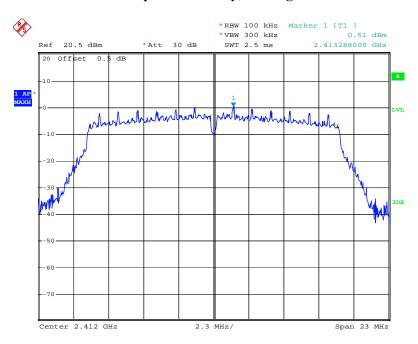
### Power Spectral Density, 802.11b High Channel



Date: 12.MAR.2014 15:48:26

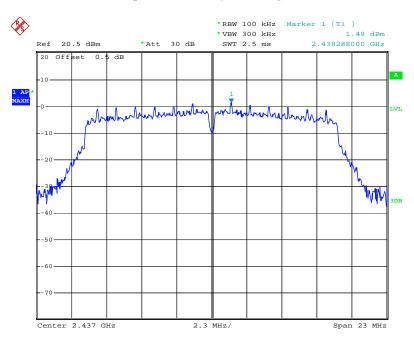
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 36 of 74 www.siemic.com

### Power Spectral Density, 802.11g Low Channel



Date: 12.MAR.2014 15:46:03

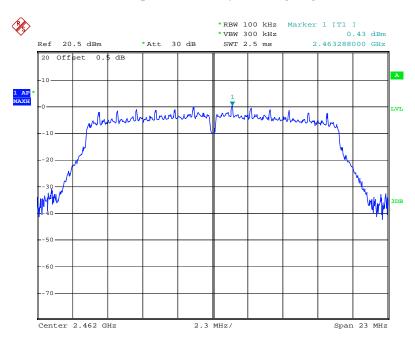
### Power Spectral Density, 802.11g Middle Channel



Date: 12.MAR.2014 15:46:42

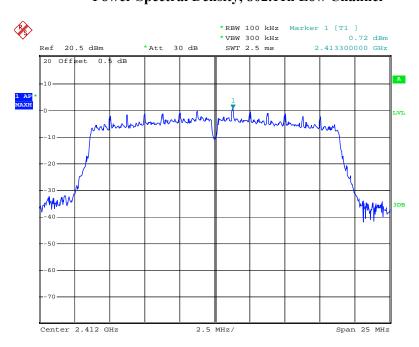
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 37 of 74 www.siemic.com

# Power Spectral Density, 802.11g High Channel



Date: 12.MAR.2014 15:47:36

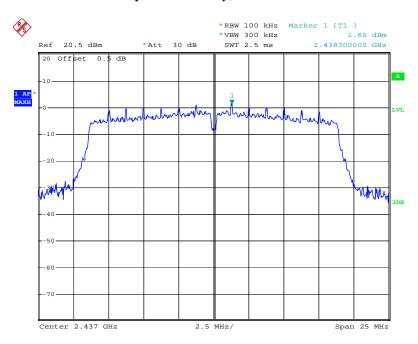
# Power Spectral Density, 802.11n Low Channel



Date: 12.MAR.2014 15:44:50

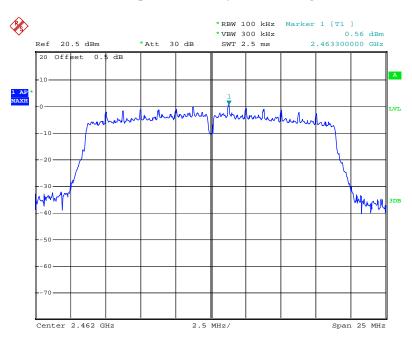
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 38 of 74 www.siemic.com

## Power Spectral Density, 802.11n Middle Channel



Date: 12.MAR.2014 15:43:57

# Power Spectral Density, 802.11n High Channel



Date: 12.MAR.2014 15:42:44

14020105-FCC-R3 April 14, 2014 39 of 74 www.siemic.com

# 5.6 <u>§15.247(d) –Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands</u>

1. 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))

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

Atmospheric Pressure 1019mbar

3. Test date: March 14 to April 11, 2014

Tested By: Jason Wang

#### **Requirement(s):**

#### **Band-Edge Measurements**

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

#### **Procedures: (Radiated Method Only)**

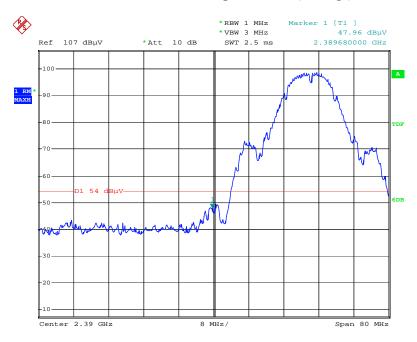
- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT on the rotated table inside the anechoic chamber without connection to measurement instrument. Turn on the EUT and make it operate in transmitting 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. Repeat above procedures until all measured frequencies were complete.
- 3. Set band RBW=1MHz, VBW=3MHz with a convenient frequency span from band edge.
- 4. Find the highest point in edge frequency, and then calculated results.
- 5. Repeat above procedures until all measured frequencies were complete.

**Test Result: Pass.** 

Please refer to the following tables and plots.

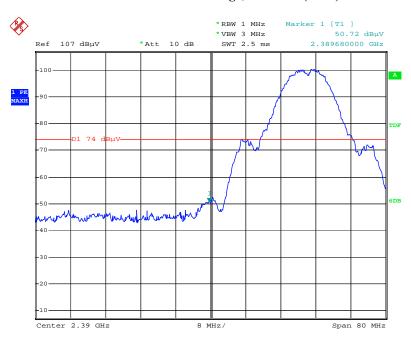
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 40 of 74 www.siemic.com

## 802.11b: Band Edge, Left Side (Average)



Date: 14.MAR.2014 11:21:07

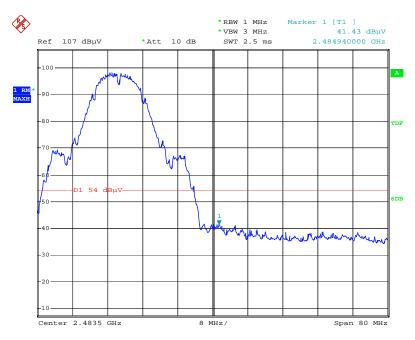
## 802.11b: Band Edge, Left Side (Peak)



Date: 14.MAR.2014 11:22:16

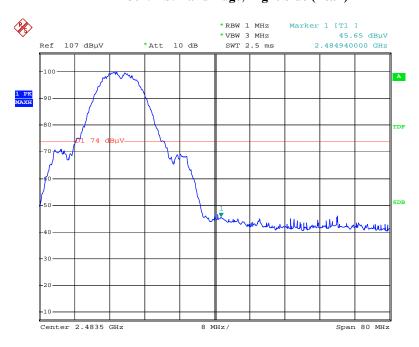
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 41 of 74 www.siemic.com

# 802.11b: Band Edge, Right Side (Average)



Date: 14.MAR.2014 11:25:08

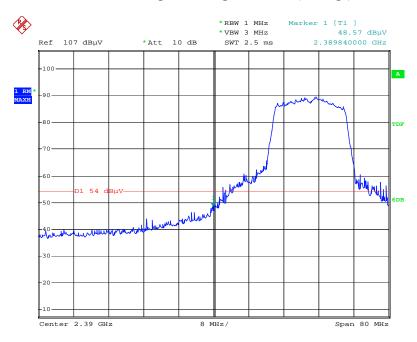
## 802.11b: Band Edge, Right Side (Peak)



Date: 14.MAR.2014 11:24:42

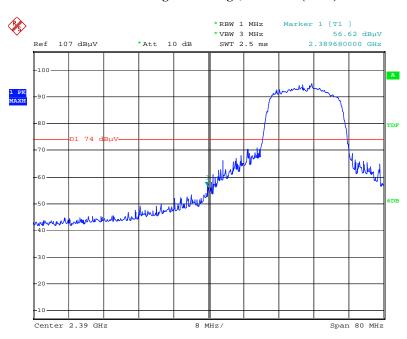
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 42 of 74 www.siemic.com

## 802.11g: Band Edge, Left Side (Average)



Date: 14.MAR.2014 11:29:59

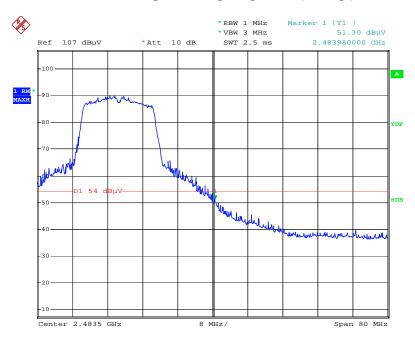
## 802.11g: Band Edge, Left Side (Peak)



Date: 14.MAR.2014 11:29:25

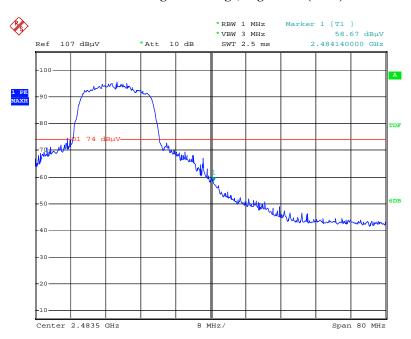
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 43 of 74 www.siemic.com

## 802.11g: Band Edge, Right Side (Average)



Date: 14.MAR.2014 11:26:49

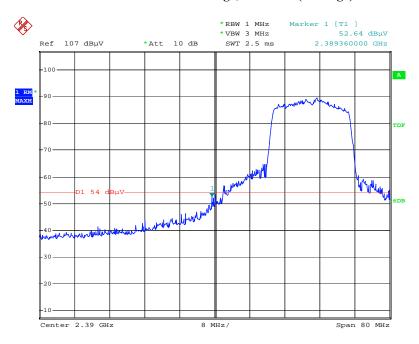
## 802.11g: Band Edge, Right Side (Peak)



Date: 14.MAR.2014 11:28:22

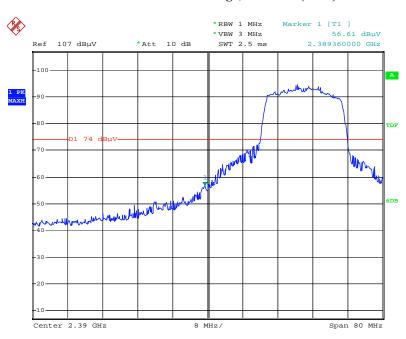
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 44 of 74 www.siemic.com

## 802.11n: Band Edge, Left Side (Average)



Date: 14.MAR.2014 11:30:54

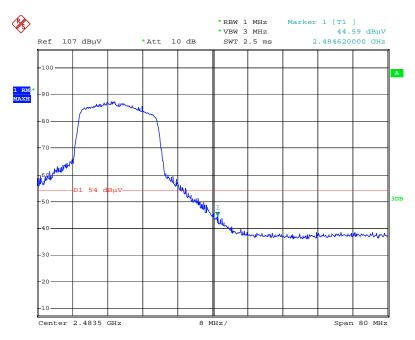
## 802.11n: Band Edge, Left Side (Peak)



Date: 14.MAR.2014 11:31:18

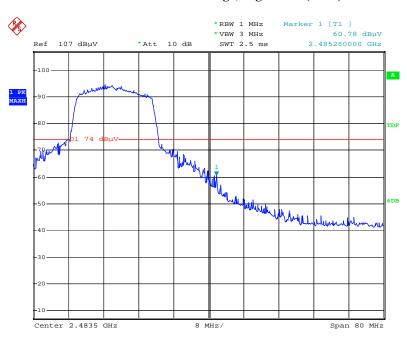
Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 45 of 74 www.siemic.com

# 802.11n: Band Edge, Right Side (Average)



Date: 11.APR.2014 17:28:40

## 802.11n: Band Edge, Right Side (Peak)



Date: 14.MAR.2014 11:31:57

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 46 of 74 www.siemic.com

# 5.7 §15.207 (a) - AC Power Line Conducted Emissions

#### Requirement:

	Conducted limit (dBμV)		
Frequency of emission (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5–5	56	46	
5–30	60	50	

<sup>\*</sup>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. <u>Conducted Emissions Measurement Uncertainty</u>

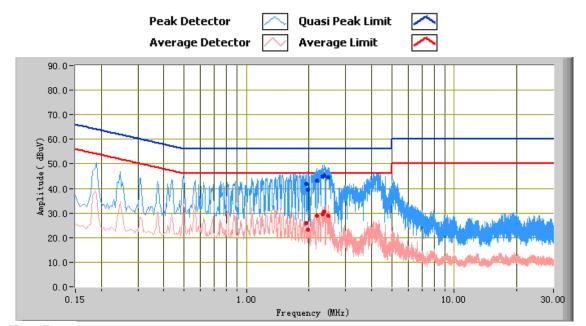
All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz - 30MHz (Average & Quasi-peak) is  $\pm 3.5dB$ .

4. Environmental Conditions Temperature 20°C
Relative Humidity 50%
Atmospheric Pressure 1019mbar

5. Test date: March 14, 2014 Tested By: Jason Wang

14020105-FCC-R3 April 14, 2014 47 of 74 www.siemic.com

Test Mode: Transmitting Mode(Worse Case)



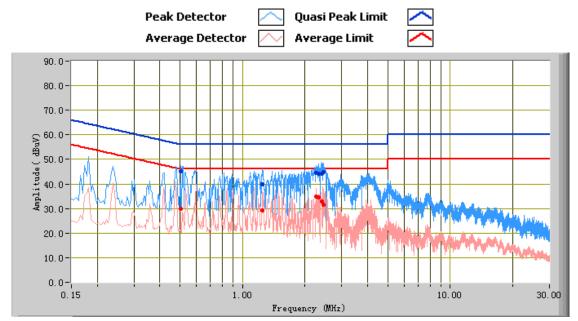
## Test Data

# Phase Line Plot at 110Vac, 60Hz

Thuse Line 110t at 110 vac, vollz							
Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
2.37	45.00	56.00	-11.00	30.66	46.00	-15.34	10.88
2.33	44.68	56.00	-11.32	29.50	46.00	-16.50	10.88
2.48	44.44	56.00	-11.56	28.74	46.00	-17.26	10.88
2.18	43.14	56.00	-12.86	28.74	46.00	-17.26	10.88
1.98	39.66	56.00	-16.34	23.31	46.00	-22.69	10.88
1.94	41.84	56.00	-14.16	26.01	46.00	-19.99	10.87

14020105-FCC-R3 April 14, 2014 48 of 74 www.siemic.com

Test Mode: Transmitting Mode(Worse Case)



## Test Data

### Phase Neutral Plot at 110Vac. 60Hz

		Phase 1	veutrai Pio	ı at muva	c, ounz		
Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
2.41	44.28	56.00	-11.72	32.76	46.00	-13.24	10.92
2.45	44.94	56.00	-11.06	31.59	46.00	-14.41	10.93
2.31	44.31	56.00	-11.69	34.54	46.00	-11.46	10.92
0.51	45.25	56.00	-10.75	30.04	46.00	-15.96	11.05
2.25	44.53	56.00	-11.47	34.94	46.00	-11.06	10.92
1.25	39.70	56.00	-16.30	29.18	46.00	-16.82	10.75

14020105-FCC-R3 April 14, 2014 49 of 74 www.siemic.com

# 5.8 §15.209, §15.205 & §15.247(d) - Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands

- 1. <u>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.</u>
- 2. 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 30MHz – 1GHz & 1GHz above (3m & 10m) is +/-6dB.

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

Atmospheric Pressure 1019mbar

5. Test date: March 14, 2014 Tested By: Jason Wang

Requirement: §15.247(d) specifies that emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

#### **Procedures:**

#### **Radiated Spurious Emissions Measurement**

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Established procedures for performing radiated measurements shall be used (see C63.10). All detected emissions must comply with the applicable limits.

#### **Measurement Detectors**

§15.35(a) specifies that on frequencies less than and below 1000 MHz, the radiated emissions limits assume the use of a CISPR quasi-peak detector function and related measurement bandwidths. §15.35(b) specifies that on frequencies above 1000 MHz, the radiated emissions limits assume the use of an average detector and a minimum resolution bandwidth of 1 MHz. In addition, §15.35(b) that when average radiated emissions measurements are specified there is also a limit on the peak emissions level which is 20 dB above the applicable maximum permitted average emission limit. These specifications also apply to conducted emissions measurements.

#### 1. CISPR Quasi-Peak Measurement

The specifications for the measuring instrument using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

#### 2. Peak Power Measurement Procedure

Utilize the peak power measurement procedure specified in Section 8.1.1 with the following modifications: Set analyzer center frequency to the frequency associated with the restricted band emission under examination. Set RBW = 1 MHz.

Note that if the peak measured value complies with the average limit, it is not necessary to perform a separate average measurement. If this option is exercised, it should be so noted in the test report.

#### 3. Average Power Measurement Procedures

The average restricted band emission levels must be measured with the EUT transmitting continuously (≥ 98% duty cycle) at its maximum power control level. Optionally, video triggering/signal gating can be used to ensure that measurements are performed only when the EUT is transmitting at its maximum power control level.

The average power measurement procedures described in Section 8.2 shall be used with the following modifications: Set analyzer center frequency to the frequency associated with the restricted band emission.

Set span to at least 1 MHz.

Use peak marker function to determine the highest amplitude within the RBW (1 MHz).

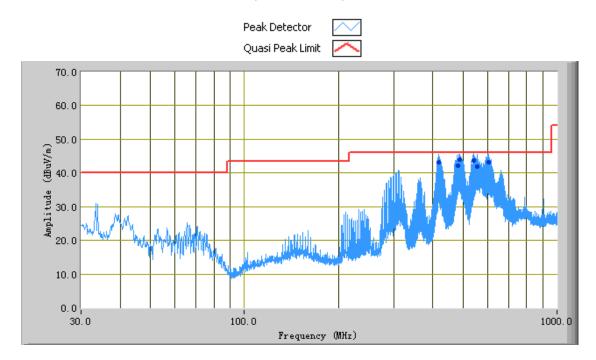


14020105-FCC-R3 April 14, 2014 50 of 74 www.siemic.com

**Test Result: Pass** 

Test Mode: Transmitting Mode(Worse Case)

# (Below 1GHz)



## Test Data

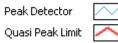
Vertical Polarity Plot @3m

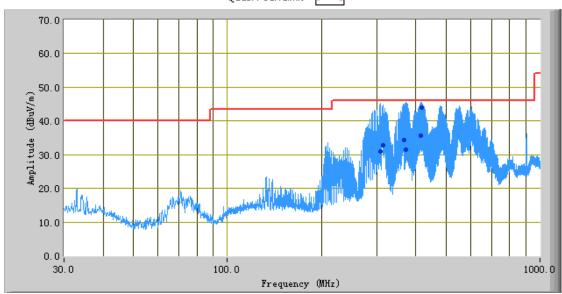
· · · · · · · · · · · · · · · · · · ·							
Frequency (MHz)	Quasi Peak (dBμV/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dBµV/m)	Margin (dB)
485.31	43.89	278.00	V	119.00	-28.61	46.00	-2.11
488.18	42.71	271.00	V	127.00	-28.67	46.00	-3.29
548.53	43.73	261.00	V	107.00	-25.93	46.00	-2.27
554.42	42.17	284.00	V	115.00	-24.80	46.00	-3.83
419.44	43.06	260.00	V	104.00	-27.09	46.00	-2.94
602.70	43.14	237.00	V	104.00	-23.19	46.00	-2.86

14020105-FCC-R3 April 14, 2014 51 of 74 www.siemic.com

Test Mode: Transmitting Mode(Worse Case)

# (Below 1GHz)





# Test Data

# Horizontal Polarity Plot @3m

Frequency (MHz)	Quasi Peak (dBμV/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dBµV/m)	Margin (dB)
418.38	43.99	81.00	Н	103.00	-28.26	46.00	-2.01
315.38	32.82	114.00	Н	107.00	-30.69	46.00	-13.18
365.34	34.55	187.00	Н	154.00	-29.30	46.00	-11.45
415.47	35.62	226.00	Н	221.00	-28.30	46.00	-10.38
309.20	30.73	104.00	Н	293.00	-30.32	46.00	-15.27
371.14	31.36	64.00	Н	100.00	-29.26	46.00	-14.64

14020105-FCC-R3 April 14, 2014 52 of 74 www.siemic.com

# Above 1 GHz:

Test Mode: Transmitting

Note: Other modes were verified, only the result of worst case basic rate mode was presented.

**Mode: 802.11b**Low Channel (2412 MHz)

Frequency	Substituted level	Detector	Direction	Height	Polarity	Ant.	Cable	Pre- Amp.	Cord.	Limit	Margin
(MHz)	(dBµV/m)	(PK/AV)	(degree)	(cm)	(H/V)	Factor	Loss	Gain	Amp.	(dBµV/m)	(dB)
						(dB/m)	(dB)	(dB)	(dBµV/m)		
4824	32.75	AV	211	100	V	33.83	-2	24	40.58	54	-13.42
4824	33.35	AV	158	190	Н	33.83	-2	24	41.18	54	-12.82
4824	45.75	PK	211	100	V	33.83	-2	24	53.58	74	-20.42
4824	48.34	PK	158	190	Н	33.83	-2	24	56.17	74	-17.83
5485.5	31.64	AV	311	110	V	34.19	-3.2	24	38.63	54	-15.37
5485.5	31.03	AV	360	180	Н	34.19	-3.2	24	38.02	54	-15.98
5485.5	40.63	PK	311	110	V	34.19	-3.2	24	47.62	74	-26.38
5485.5	39.14	PK	360	180	Н	34.19	-3.2	24	46.13	74	-27.87

## Middle Channel (2437 MHz)

Frequency	Substituted level	Detector	Direction	Height	Polarity	Ant.	Cable	Pre- Amp.	Cord.	Limit	Margin
(MHz)	$(dB\mu V/m)$	(PK/AV)	(degree)	(cm)	(H/V)	Factor	Loss	Gain	Amp.	(dBµV/m)	(dB)
						(dB/m)	(dB)	(dB)	(dBµV/m)		
4874	33.65	AV	144	101	V	33.83	-2.5	24	40.98	54	-13.02
4874	34.64	AV	199	198	Н	33.83	-2.5	24	41.97	54	-12.03
4874	47.08	PK	144	101	V	33.83	-2.5	24	54.41	74	-19.59
4874	48.39	PK	199	198	Н	33.83	-2.5	24	55.72	74	-18.28
5565.5	30.87	AV	199	100	V	34.29	-3.7	24	37.46	54	-16.54
5565.5	20.37	AV	259	190	Н	34.29	-3.7	24	26.96	54	-27.04
5565.5	40.12	PK	199	100	V	34.29	-3.7	24	46.71	74	-27.29
5565.5	38.55	PK	259	190	Н	34.29	-3.7	24	45.14	74	-28.86

## High Channel (2462 MHz)

Frequency (MHz)	Substituted level (dBµV/m)	Detector (PK/AV)	Direction (degree)	Height (cm)	Polarity (H/V)	Ant. Factor	Cable Loss	Pre- Amp. Gain	Cord.	Limit (dBµV/m)	Margin (dB)
						(dB/m)	(dB)	(dB)	(dBµV/m)		
4924	31.43	AV	322	121	V	33.83	-2.33	24	38.93	54	-15.07
4924	33.25	AV	188	200	Н	33.83	-2.33	24	40.75	54	-13.25
4924	46.52	PK	322	121	V	33.83	-2.33	24	54.02	74	-19.98
4924	48.74	PK	188	200	Н	33.83	-2.33	24	56.24	74	-17.76
5573.5	30.81	AV	99	121	V	34.29	-4	24	37.1	54	-16.9
5573.5	20.15	AV	211	189	Н	34.29	-4	24	26.44	54	-27.56
5573.5	41.73	PK	99	121	V	34.29	-4	24	48.02	74	-25.98
5573.5	41.08	PK	211	189	Н	34.29	-4	24	47.37	74	-26.63

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 53 of 74 www.siemic.com

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

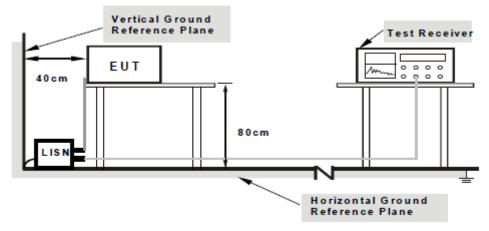
# Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
AC Line Conducted Emissions				
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
RF conducted test				
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	CFG038	10/25/2013	10/24/2014
Power Splitter	1#	1#	02/02/2014	02/01/2015
Temperature/Humidity Chamber	1007H	N/A	01/07/2014	01/06/2015
DC Power Supply	E3640A	MY4000401 3	03/22/2014	03/21/2015
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	03/26/2014	03/25/2015
EMCO Horn Antenna (1 ~18GHz)	3115	N/A	10/09/2013	10/08/2014
A- INFOMW Antenna	JXTXLB-	J2031081120	10/09/2013	10/08/2014
(1 ~18GHz)	10180	092		
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

# 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  $50\Omega/50\mu$ 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.



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

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.

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 55 of 74 www.siemic.com

# **Sample Calculation Example**

At 20 MHz  $\lim_{t \to 0} t = 250 \,\mu\text{V} = 47.96 \,\text{dB}\mu\text{V}$ 

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

Q-P reading obtained directly from EMI Receiver =  $40.00~\text{dB}\mu\text{V}$  (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

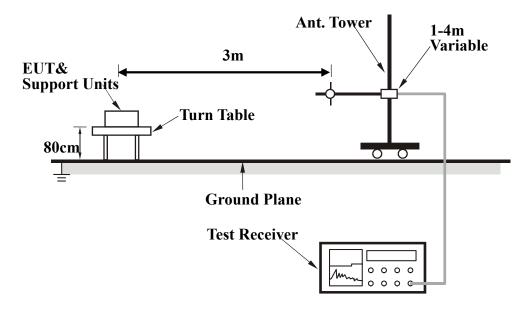
## **EUT Characterisation**

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).

#### **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.



14020105-FCC-R3 April 14, 2014 57 of 74 www.siemic.com

#### **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. 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 highest 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 was 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 (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	Peak	100 kHz	100 kHz
A1 1000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

## **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.

Report No.: 14020105-1 Issue Date: April 14, 20 Page: 58 of 74

14020105-FCC-R3 April 14, 2014 58 of 74 www.siemic.com

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

# Annex B.i. Photograph: EUT External Photo



All Packages - Front View



Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 59 of 74 www.siemic.com



**EUT - Front View** 



EUT - Rear View



14020105-FCC-R3 April 14, 2014 60 of 74 www.siemic.com



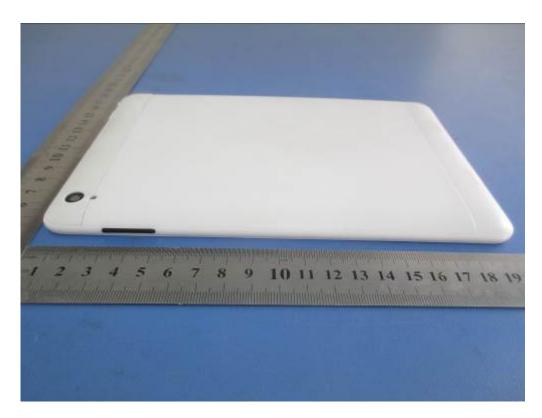
EUT - Top View



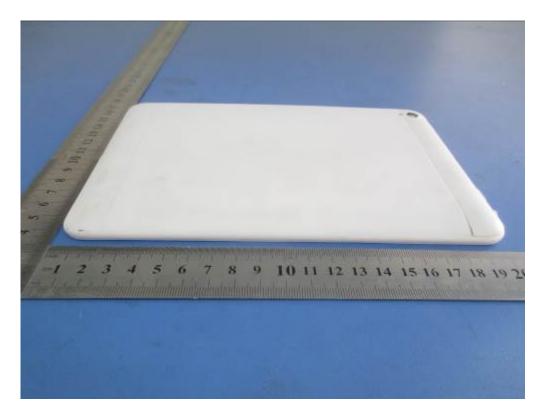
EUT – Bottom View



Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 61 of 74 www.siemic.com



EUT – Left View



EUT – Right View



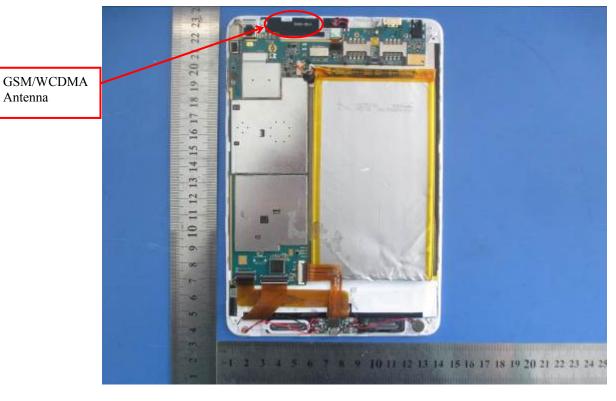
Report No.: Issue Date: 14020105-FCC-R3 April 14, 2014 62 of 74 Page: www.siemic.com

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

Antenna



EUT – Uncover Front View 1



EUT – Uncover Front View 2

SIEMIC, INC.

Accessing global markets
RF Test Report for 7.85inch Tablet PC
Main Model: MT-786 IPS
Serial Model: NTB-786 IPS
To: FCC Part 15.247: 2013, ANSI C63.4: 2009

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 63 of 74 www.siemic.com



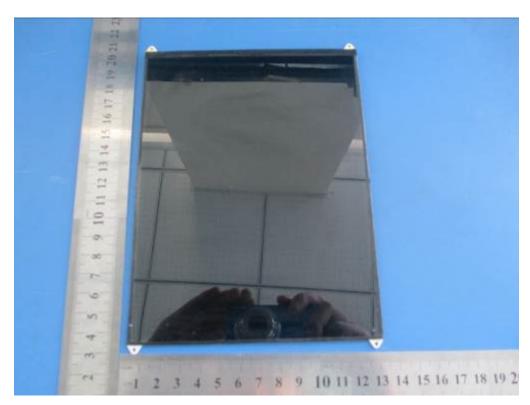
EUT – Battery Front View



EUT – Battery Rear View



Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 64 of 74 www.siemic.com



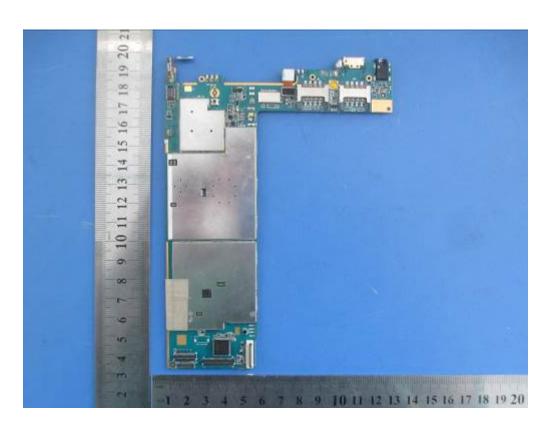
LCD - Front View



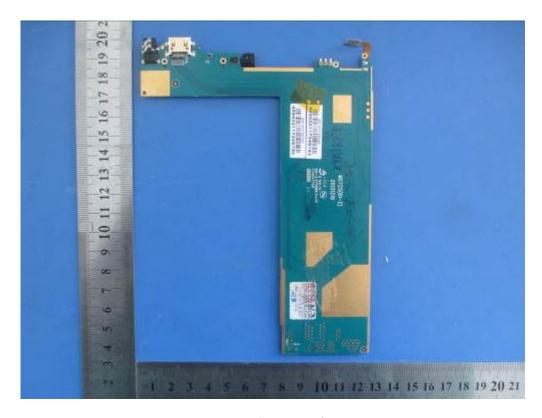
LCD - Rear View



Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 65 of 74 www.siemic.com



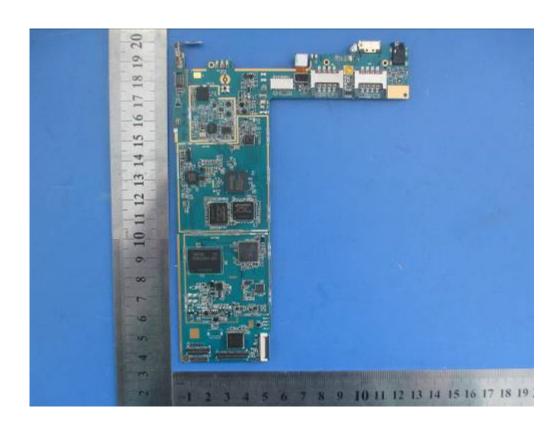
EUT – PCB Front View



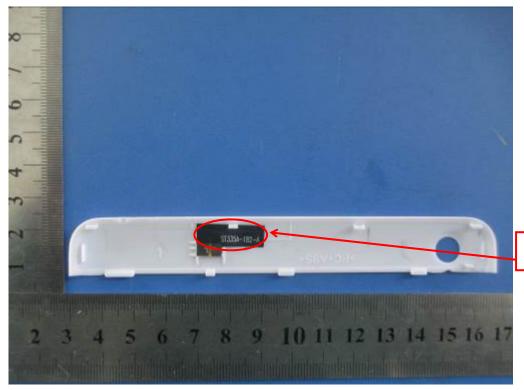
EUT – PCB Rear View



Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 66 of 74 www.siemic.com



EUT – PCB Shielding Off Front View



BT/WIFI Antenna

BT&WIFI Antenna - Front View

14020105-FCC-R3 April 14, 2014 67 of 74

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



Conducted Emissions Test Setup – Front View

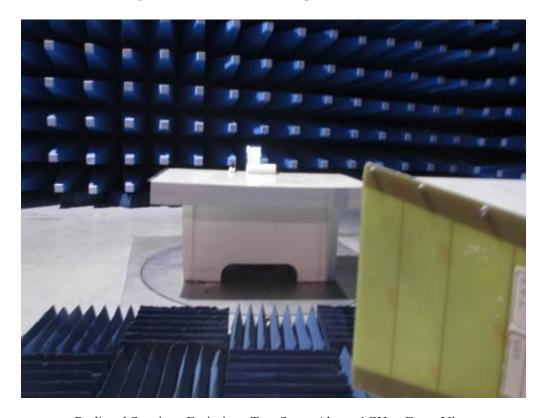


Conducted Emissions Test Setup – Side View

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 68 of 74 www.siemic.com



Radiated Spurious Emissions Test Setup Below 1GHz - Front View



Radiated Spurious Emissions Test Setup Above 1GHz -Front View

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 69 of 74 www.siemic.com

# Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

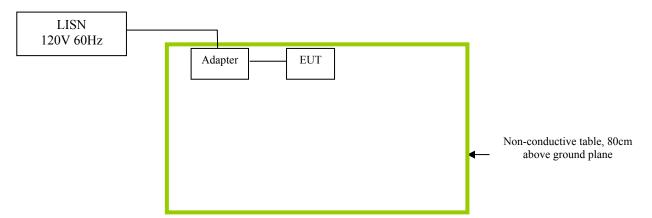
# **EUT TEST CONDITIONS**

# Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

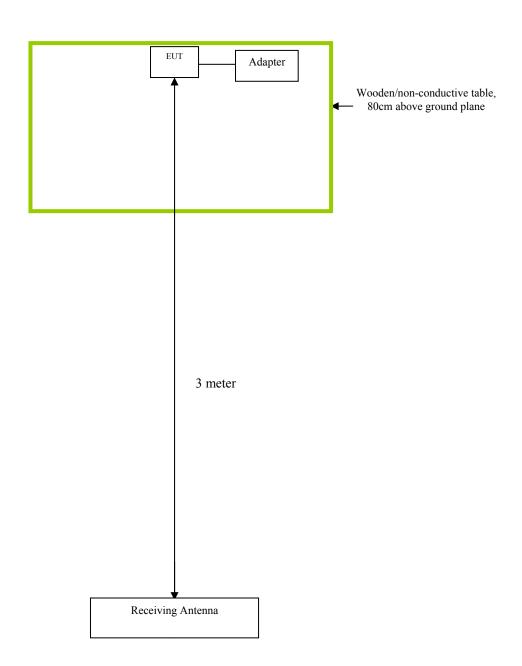
The following is a description of supporting equipment and details of cables used with the EUT.

	Manufacturer	Equipment Description (Including Brand Name)	Model	Calibration Date	Calibration Due Date
ĺ	N/A	N/A	N/A	N/A	N/A

# **Block Configuration Diagram for AC Line Conducted Emissions**



# **Block Configuration Diagram for Radiated Emissions**



14020105-FCC-R3 April 14, 2014 72 of 74 www.siemic.com Report No.: Issue Date: Page:

#### 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.

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 73 of 74 www.siemic.com

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

Please see attachment

Report No.: 14020105-FCC-R3 Issue Date: April 14, 2014 Page: 74 of 74 www.siemic.com

# 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-786 IPS and serial numbers NTB-786 IPS have the same constructions, circuit diagram and PCB layout. Only model name are different.

Sincerely,

Kalwani