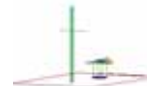




# PCTEST ENGINEERING LABORATORY, INC.

6660-B Dobbin Road, Columbia, MD 21045 USA  
Tel. 410.290.6652 / Fax 410.290.6654  
<http://www.pctestlab.com>



## MEASUREMENT REPORT

FCC PART 15.247 / IC RSS-210 WLAN 802.11a/b/g/n

**Applicant Name:**

Samsung Electronics, Co. Ltd.  
18600 Broadwick St.  
Rancho Dominguez, CA 90220  
United States

**Date of Testing:**

December 14 - 19, 2011

**Test Site/Location:**

PCTEST Lab, Columbia, MD, USA

**Test Report Serial No.:**

0Y1112152157.A3L

**FCC ID:**

A3LGTN8000

**APPLICANT:**

Samsung Electronics, Co. Ltd.

**Application Type:**

Certification

**Model(s):**

GT-N8000

**EUT Type:**

Portable Tablet Computer

**Max. RF Output Power:**

18.2 mW (12.6 dBm) Conducted (b)  
20.09 mW (13.03 dBm) Conducted (g)  
15.67 mW (11.95 dBm) Conducted (n) - 2.4GHz  
13.58 mW (11.33 dBm) Conducted (a) - 5.8GHz  
10.38 mW (10.16 dBm) Conducted (n) - 5.8GHz

**Frequency Range:**

2412 - 2462 MHz (DSSS/OFDM), 5745 – 5825 MHz (OFDM)

**FCC Classification:**

Digital Transmission System (DTS)

**FCC Rule Part(s):**

Part 15.247

**IC Specification(s):**

RSS-210 Issue 8

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C-63.4-2003. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

*Grant Conditions: Listed output power is conducted.*

*PCTEST certifies that no party to this application has been subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.*

  
Randy Ortanez  
President

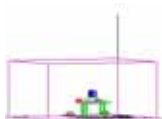


|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 1 of 65                    |

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| <b>Test Report S/N:</b><br>0Y1112152157.A3L | <b>Test Dates:</b><br>December 14 - 19, 2011                                        | <b>EUT Type:</b><br>Portable Tablet Computer                               |                                                                                       | Page 2 of 65                           |



# MEASUREMENT REPORT

## FCC Part 15.247



### § 2.1033 General Information

**APPLICANT:** Samsung Electronics, Co. Ltd.

**APPLICANT ADDRESS:** 18600 Broadwick St.  
Rancho Dominguez, CA 90220, United States

**TEST SITE:** PCTEST ENGINEERING LABORATORY, INC.

**TEST SITE ADDRESS:** 6660-B Dobbin Road, Columbia, MD 21045 USA

**FCC RULE PART(S):** Part 15.247

**IC SPECIFICATION(S):** RSS-210 Issue 8

**MODEL NAME:** GT-N8000

**FCC ID:** A3LGTN8000

**Test Device Serial No.:** N/A ☐ Production ☒ Pre-Production ☐ Engineering

**FCC CLASSIFICATION:** Digital Transmission System (DTS)

**DATE(S) OF TEST:** December 14 - 19, 2011

**TEST REPORT S/N:** 0Y1112152157.A3L

### Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21045, U.S.A.



- PCTEST facility is an FCC registered (PCTEST Reg. No. 90864) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (2451A-1).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (2451A-1) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.

|                                             |                                                                                     |                                                                        |                                                                                       |                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> A3LGTN8000                   |  | <b>FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)</b> |  | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>0Y1112152157.A3L | <b>Test Dates:</b><br>December 14 - 19, 2011                                        | <b>EUT Type:</b><br>Portable Tablet Computer                           |                                                                                       | Page 3 of 65                           |

## 1.0 INTRODUCTION

### 1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

### 1.2 PCTEST Test Location

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity area, the Baltimore-Washington Intern'l (BWI) airport, the city of Baltimore and the Washington, DC area. (see Figure 1-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility in New Concept Business Park, Guilford Industrial Park, Columbia, Maryland. The site address is 6660-B Dobbin Road, Columbia, MD 21045. The test site is one of the highest points in the Columbia area with an elevation of 390 feet above mean sea level. The site coordinates are 39° 11'15" N latitude and 76° 49'38" W longitude. The facility is 1.5 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. There are no FM or TV transmitters within 15 miles of the site. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003 on January 28, 2009.

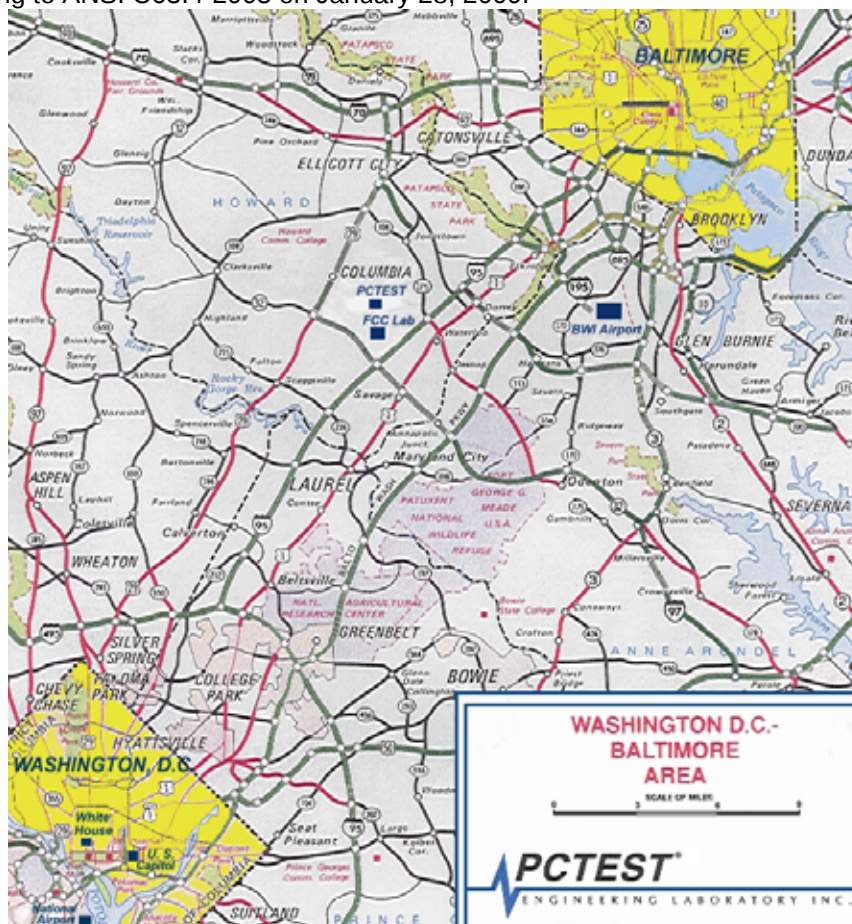


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 4 of 65                    |

## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Tablet Computer FCC ID: A3LGTN8000**. The EUT consisted of the following component(s):

| Manufacturer / Model      | FCC ID     | Description              |
|---------------------------|------------|--------------------------|
| Samsung / Model: GT-N8000 | A3LGTN8000 | Portable Tablet Computer |

**Table 2-1. EUT Equipment Description**

### 2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1900 WCDMA/HSPA, 802.11a/b/g/n WLAN, 802.11a/n UNII, Bluetooth

### 2.3 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

### 2.4 Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practical, only the trade name and FCC ID must be displayed on the device per Section 15.19(b)(2).

Please see attachment for FCC ID label and label location.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 5 of 65                    |

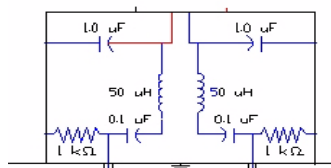
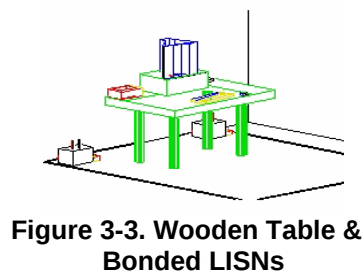
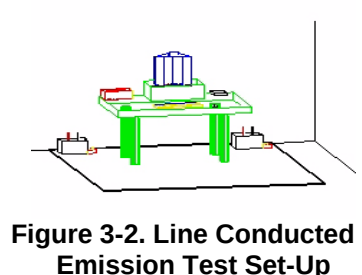
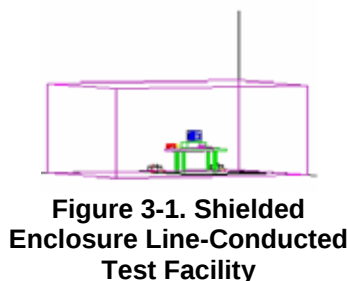
## 3.0 DESCRIPTION OF TEST

### 3.1 Evaluation Procedure

The measurement procedure described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz (ANSI C63.4-2003) and FCC procedure dated March 23, 2005 entitled "Measurements of Digital Transmission Systems Operating Under Section 15.247" were used in the measurement of the **Samsung Portable Tablet Computer FCC ID: A3LGTN8000**.

Deviation from measurement procedure.....None

### 3.2 Conducted Emissions



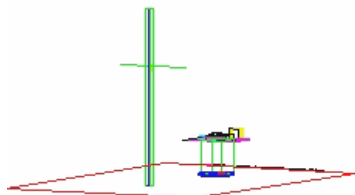
**Figure 3-4. LISN Schematic Diagram**

The line-conducted facility is located inside a 16'x20'x10' shielded enclosure, manufactured by Ray Proof Series 81 (see Figure 3-1). The shielding effectiveness of the shielded room is in accordance with MIL-Std-285 or NSA 65-5. A 1m x 1.5m wooden table 80cm high is placed 40cm away from the vertical wall and 1.5m away from the sidewall of the shielded room (see Figure 3-2). Solar Electronics and EMCO Model 3725/2 (10kHz-30MHz) 50Ω/50μH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room (see Figure 3-3). The EUT is powered from the Solar LISN and the support equipment is powered from the EMCO LISN. Power to the LISNs are filtered by a high-current high-insertion loss Ray Proof power line filter (100dB 14Hz-10GHz). The purpose of the filter is to attenuate ambient signal interference and this filter is also bonded to the shielded enclosure. All electrical cables are shielded by braided tinned copper zipper tubing with an inner diameter of ½". If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the Solar LISN. The LISN schematic diagram is shown (see Figure 3-4). All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME from the EUT.

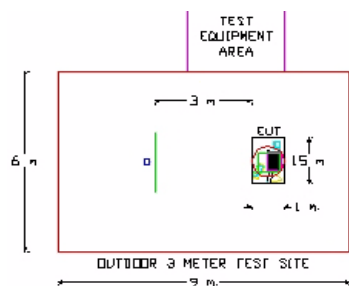
The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to CISPR quasi-peak and average mode. The bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each EME emission. Each emission was maximized by: switching power lines; varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in the test setup photographs. Each EME reported was calibrated using the Agilent E8257D (250kHz – 20GHz) PSG Signal Generator.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 6 of 65                    |

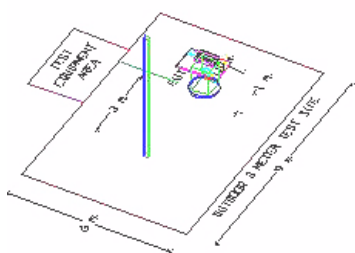
### 3.3 Radiated Emissions



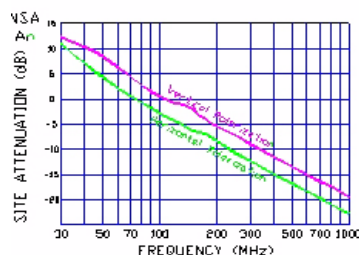
**Figure 3-5. 3-Meter Test Site**



**Figure 3-6. Dimensions of Outdoor Test Site**



**Figure 3-7. Turntable and System Setup**



**Figure 3-8. Normalized Site Attenuation Curves (H&V)**

Preliminary measurements were made indoors at 1-meter using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, and turntable azimuth with respect to the antenna was noted for each frequency found. The spectrum was scanned from 30 to 200 MHz using a bi-conical antenna and from 200 to 1000 MHz using a log-spiral antenna. Above 1 GHz, linearly polarized double ridge horn antennas were used.

Final measurements were made outdoors at 3-meter test range using Roberts<sup>TM</sup> Dipole antennas or horn antennas (see Figure 3-5). The test equipment was placed on a wooden and plastic bench situated on a 1.5m x 2m area adjacent to the measurement area (see Figure 3-6). Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The detector function was set to CISPR quasi-peak mode and the bandwidth of the spectrum analyzer was set to 100kHz for frequencies below 1GHz or 1MHz for frequencies above 1GHz. Above 1GHz the detector function was set to average mode (RBW = 1MHz, VBW = 10Hz).

The half-wave dipole antenna was tuned to the frequency found during preliminary radiated measurements. The EUT, support equipment and interconnecting cables were re-configured to the set-up producing the maximum emission for the frequency and were placed on top of a 0.8-meter high non-metallic 1 x 1.5 meter table (see Figure 3-7). The EUT, support equipment, and interconnecting cables were re-arranged and manipulated to maximize each EME emission. The turntable containing the system was rotated and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/or support equipment, and powering the monitor from the floor mounted outlet box and the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission. Photographs of the worst-case emission can be seen in test setup photographs. Each EME reported was calibrated using the Agilent E8257D (250kHz – 20GHz) PSG Signal Generator. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 3-8.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 7 of 65                    |

## 4.0 ANTENNA REQUIREMENTS

### Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antennas of the Portable Tablet Computer are **permanently attached**.
- There are no provisions for connection to an external antenna.

### Conclusion:

The **Samsung Portable Tablet Computer FCC ID: A3LGTN8000** unit complies with the requirement of §15.203.

| Ch. | Frequency (MHz) | Ch. | Frequency (MHz) |
|-----|-----------------|-----|-----------------|
| 1   | 2412            | 7   | 2442            |
| 2   | 2417            | 8   | 2447            |
| 3   | 2422            | 9   | 2452            |
| 4   | 2427            | 10  | 2457            |
| 5   | 2432            | 11  | 2462            |
| 6   | 2437            |     |                 |

| Ch. | Frequency (MHz) | Ch. | Frequency (MHz) |
|-----|-----------------|-----|-----------------|
| 149 | 5745            | 159 | 5795            |
| 151 | 5755            | 161 | 5805            |
| 153 | 5765            | 163 | 5815            |
| 155 | 5775            | 165 | 5825            |
| 157 | 5785            |     |                 |

**Table 4-1. Frequency/ Channel Operations**

|                                             |                                                                                     |                                                                        |                                                                                       |                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> A3LGTN8000                   |  | <b>FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)</b> |  | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>0Y1112152157.A3L | <b>Test Dates:</b><br>December 14 - 19, 2011                                        | <b>EUT Type:</b><br>Portable Tablet Computer                           |                                                                                       | Page 8 of 65                           |

## 5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

| Manufacturer | Model       | Description                         | Cal Date   | Cal Interval | Cal Due    | Serial Number |
|--------------|-------------|-------------------------------------|------------|--------------|------------|---------------|
| Agilent      | 8447D       | Broadband Amplifier                 | 3/17/2011  | Annual       | 3/17/2012  | 1937A03348    |
| Agilent      | 8449B       | (1-26.5GHz) Pre-Amplifier           | 2/8/2011   | Annual       | 2/8/2012   | 3008A00985    |
| Agilent      | E4448A      | PSA (3Hz-50GHz) Spectrum Analyzer   | 11/30/2010 | Annual       | 12/30/2011 | US42510244    |
| Agilent      | N9020A      | MXA Signal Analyzer                 | 10/10/2011 | Annual       | 10/10/2012 | US46470561    |
| Agilent      | N9038A      | MXE EMI Receiver                    | 8/5/2011   | Annual       | 8/5/2012   | MY51210133    |
| Anritsu      | MA2411B     | Pulse Sensor                        | 10/13/2011 | Annual       | 10/13/2012 | 1027293       |
| Anritsu      | ML2495A     | Power Meter                         | 10/13/2011 | Annual       | 10/13/2012 | 1039008       |
| Emco         | 3816/2      | LISN                                | 11/5/2010  | Biennial     | 11/5/2012  | 9707-1077     |
| ETS Lindgren | 3160-09     | 18-26.5 GHz Standard Gain Horn      | 5/31/2011  | Annual       | 5/31/2012  | 135427        |
| Schwarzbeck  | VULB-9161SE | Trilog Super Broadband Test Antenna | 11/8/2011  | Biennial     | 11/8/2013  | 9161-4075     |
| Sunol        | DRH-118     | Horn Antenna (1 - 18GHz)            | 7/5/2011   | Biennial     | 7/5/2013   | A050307       |

**Table 5-1. Annual Test Equipment Calibration Schedule**

|                                             |                                                                                     |                                                                            |                                                                                       |                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> A3LGTN8000                   |  | <b>FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |  | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>0Y1112152157.A3L | <b>Test Dates:</b><br>December 14 - 19, 2011                                        | <b>EUT Type:</b><br>Portable Tablet Computer                               | Page 9 of 65                                                                          |                                        |

## 6.0 TEST RESULTS

### 6.1 Summary

Company Name: Samsung Electronics, Co. Ltd.

FCC ID: A3LGTN8000

FCC Classification: Digital Transmission System (DTS)

Data Rate(s) Tested: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps (b)  
6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps (a/g)  
6.5/7.2, 13/14.4, 19.5/21.7, 26/28.9, 39/43.3, 52/57.8, 58.5/65, 65/72.2 (n)

| FCC Part Section(s)                           | RSS Section(s)    | Test Description                                                               | Test Limit                                                                     | Test Condition                   | Test Result | Reference                   |
|-----------------------------------------------|-------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------|-------------|-----------------------------|
| <b>TRANSMITTER MODE (TX)</b>                  |                   |                                                                                |                                                                                |                                  |             |                             |
| 15.247(a)(2)                                  | RSS-210 [A8.2]    | 6dB Bandwidth                                                                  | > 500kHz                                                                       | CONDUCTED                        | PASS        | Section 6.2                 |
| 15.247(b)(3)                                  | RSS-210 [A8.4]    | Transmitter Output Power                                                       | < 1 Watt                                                                       |                                  | PASS        | Sections 6.3, 6.4, 6.5, 6.6 |
| 15.247(e)                                     | RSS-210 [A8.2]    | Transmitter Power Spectral Density                                             | < 8dBm / 3kHz Band                                                             |                                  | PASS        | Section 6.7                 |
| 15.247(d)                                     | RSS-210 [A8.5]    | Band Edge / Out-of-Band Emissions                                              | Conducted < 20dBc                                                              |                                  | PASS        | Sections 6.8, 6.9           |
| 15.205<br>15.209                              | RSS-210 [A8.5]    | General Field Strength Limits (Restricted Bands and Radiated Emission Limits)  | Emissions in restricted bands must meet the radiated limits detailed in 15.209 | RADIATED                         | PASS        | Sections 6.10, 6.11         |
| 15.207                                        | RSS-Gen [7.2.2]   | AC Conducted Emissions 150kHz – 30MHz                                          | < FCC 15.207 limits                                                            | LINE CONDUCTED                   | PASS        | Section 6.12                |
| <b>RECEIVER MODE (RX) / DIGITAL EMISSIONS</b> |                   |                                                                                |                                                                                |                                  |             |                             |
| 15.107                                        | RSS-Gen [7.2.2]   | AC Conducted Emissions 150kHz – 30MHz                                          | < FCC 15.107 limits                                                            | LINE CONDUCTED                   | PASS        | Part 15B Test Report        |
| 15.109                                        | RSS-Gen [7.2.3.2] | General Field Strength Limits (Restricted Bands and Radiated Emissions Limits) | < FCC 15.109 limits                                                            | RADIATED (30MHz-1GHz) (1-25 GHz) | PASS        | Part 15B Test Report        |

**Table 6-1. Summary of Test Results**

#### Note:

All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.

|                                      |                                                                                     |                                                                 |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                           | Page 10 of 65                                                                         |                                 |

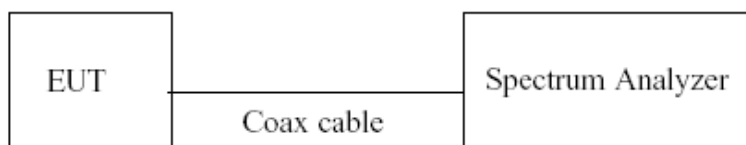
## 6.2 6dB Bandwidth Measurement – 802.11a/b/g/n

§15.247(a)(2); RSS-210 [A8.2]

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the receive antenna while the EUT is operating in transmission mode at the appropriate frequencies. **The minimum permissible 6dB bandwidth is 500 kHz.**

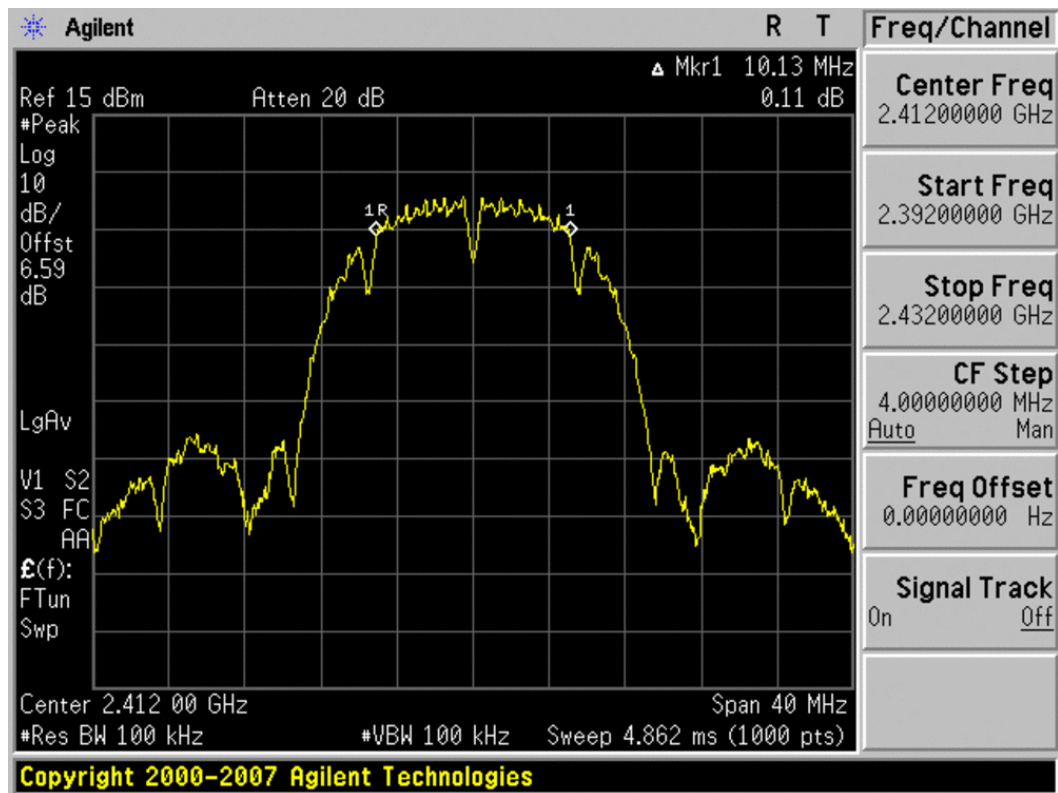
| Frequency [MHz] | Channel No. | 802.11 Mode | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-------------|--------------------------|-------------------------|-------------|
| 2412            | 1           | b           | 10.13                    | 0.500                   | Pass        |
| 2437            | 6           | b           | 10.17                    | 0.500                   | Pass        |
| 2462            | 11          | b           | 10.13                    | 0.500                   | Pass        |
| 2412            | 1           | g           | 16.46                    | 0.500                   | Pass        |
| 2437            | 6           | g           | 16.38                    | 0.500                   | Pass        |
| 2462            | 11          | g           | 16.42                    | 0.500                   | Pass        |
| 2412            | 1           | n           | 17.62                    | 0.500                   | Pass        |
| 2437            | 6           | n           | 17.66                    | 0.500                   | Pass        |
| 2462            | 11          | n           | 17.62                    | 0.500                   | Pass        |
| 5745            | 149         | a           | 16.38                    | 0.500                   | Pass        |
| 5785            | 157         | a           | 16.18                    | 0.500                   | Pass        |
| 5825            | 165         | a           | 16.42                    | 0.500                   | Pass        |
| 5745            | 149         | n           | 17.66                    | 0.500                   | Pass        |
| 5785            | 157         | n           | 17.10                    | 0.500                   | Pass        |
| 5825            | 165         | n           | 17.34                    | 0.500                   | Pass        |

**Table 6-2. Conducted Bandwidth Measurements**



**Figure 6-1. Test Instrument & Measurement Setup**

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 11 of 65                   |

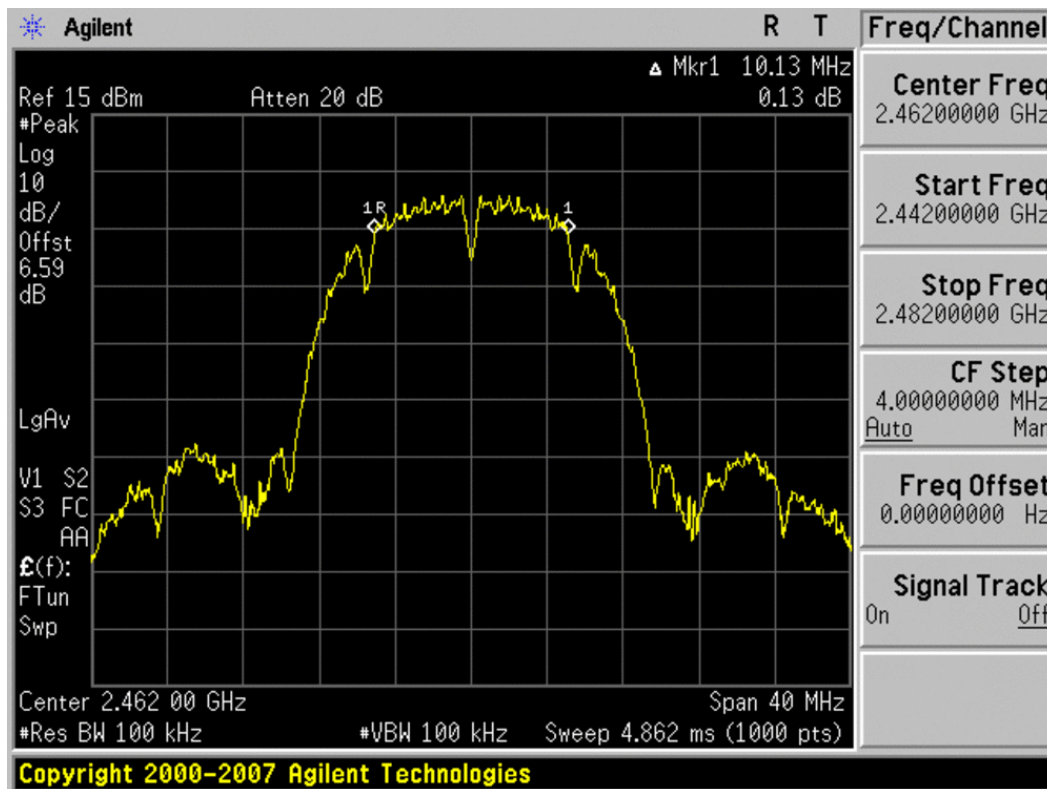


Plot 6-1. 6dB Bandwidth Plot (802.11b – Ch. 1)

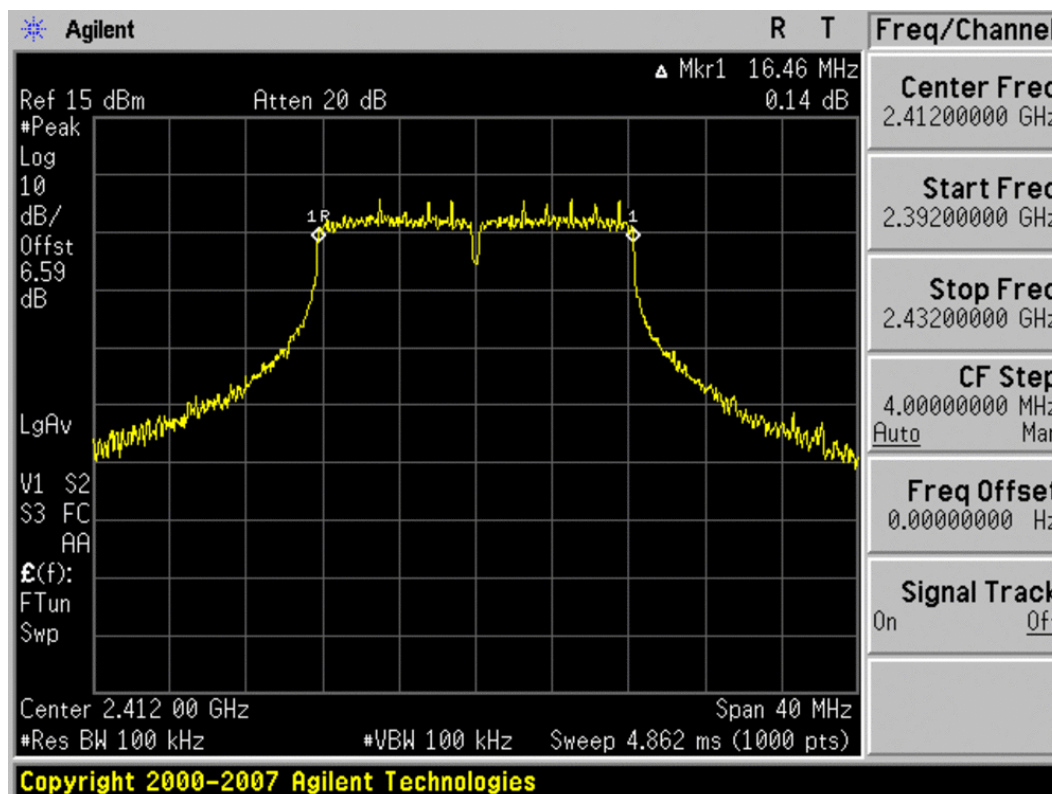


Plot 6-2. 6dB Bandwidth Plot (802.11b – Ch. 6)

|                                      |                                                                                     |                                                                 |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                           |                                                                                       | Page 12 of 65                   |

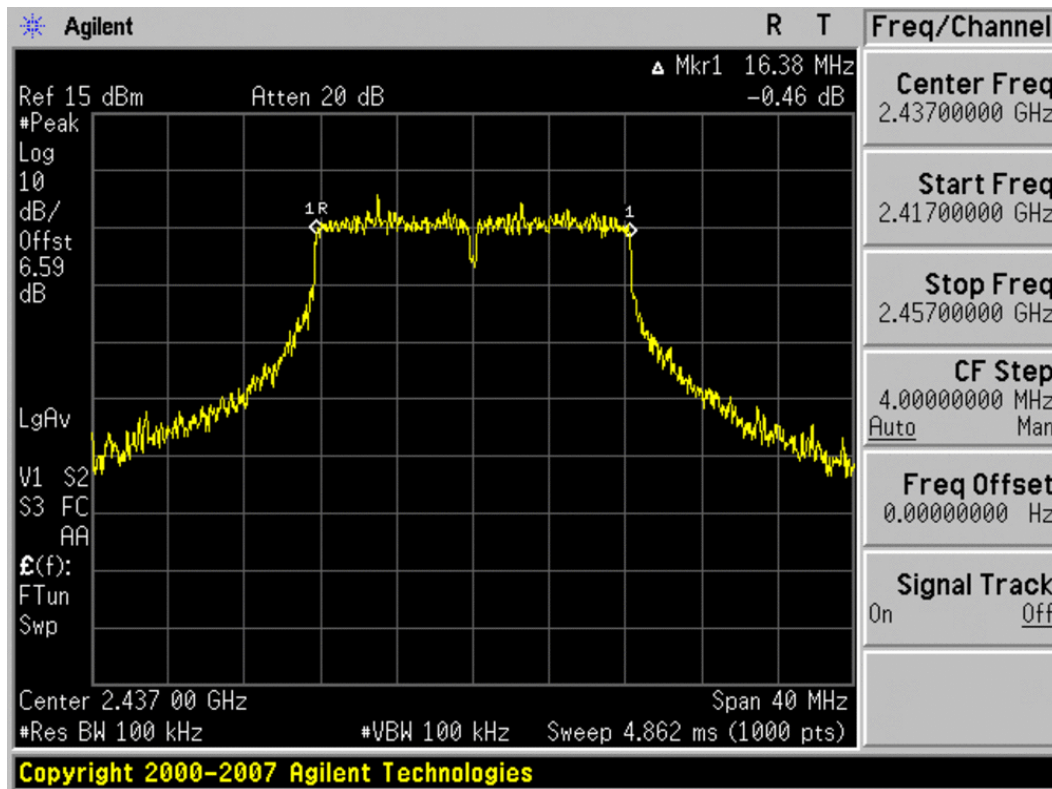


Plot 6-3. 6dB Bandwidth Plot (802.11b – Ch. 11)

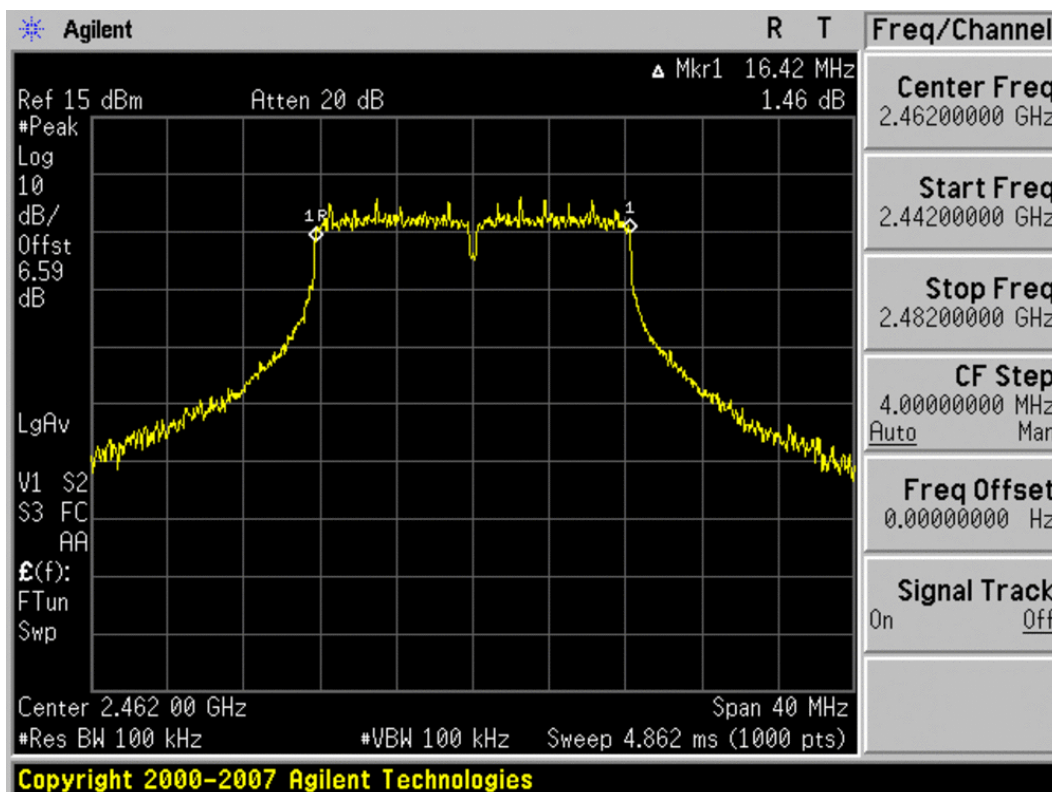


Plot 6-4. 6dB Bandwidth Plot (802.11g – Ch. 1)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 13 of 65                   |

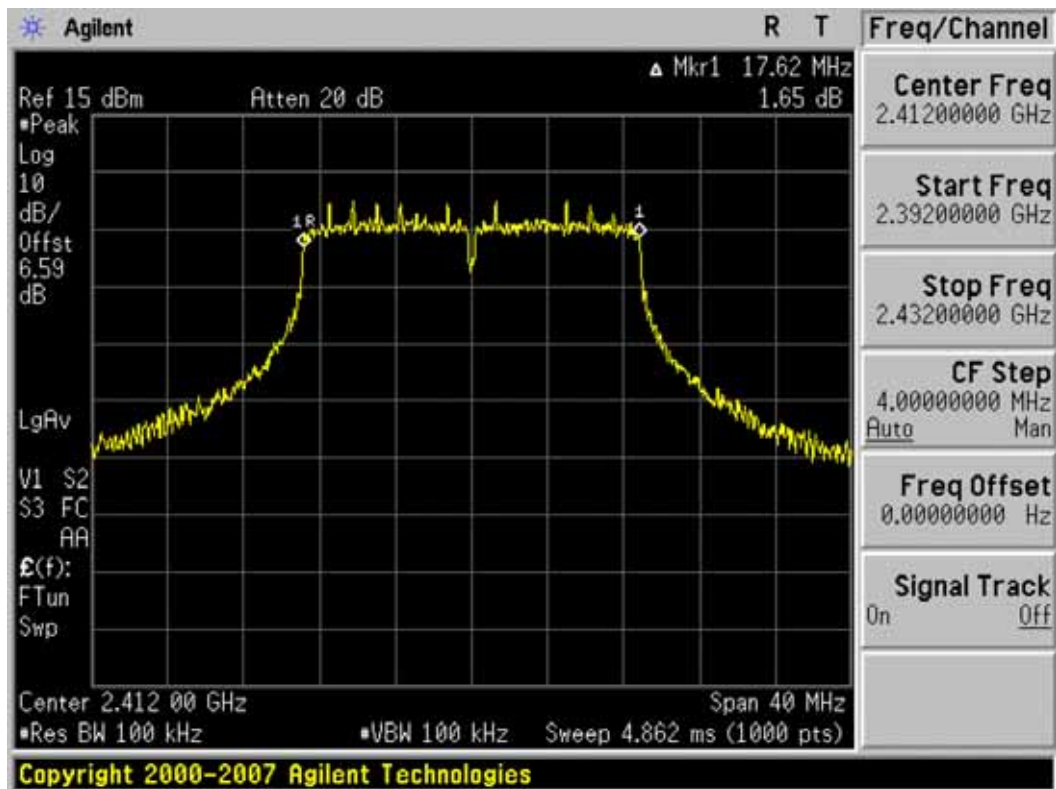


Plot 6-5. 6dB Bandwidth Plot (802.11g – Ch. 6)

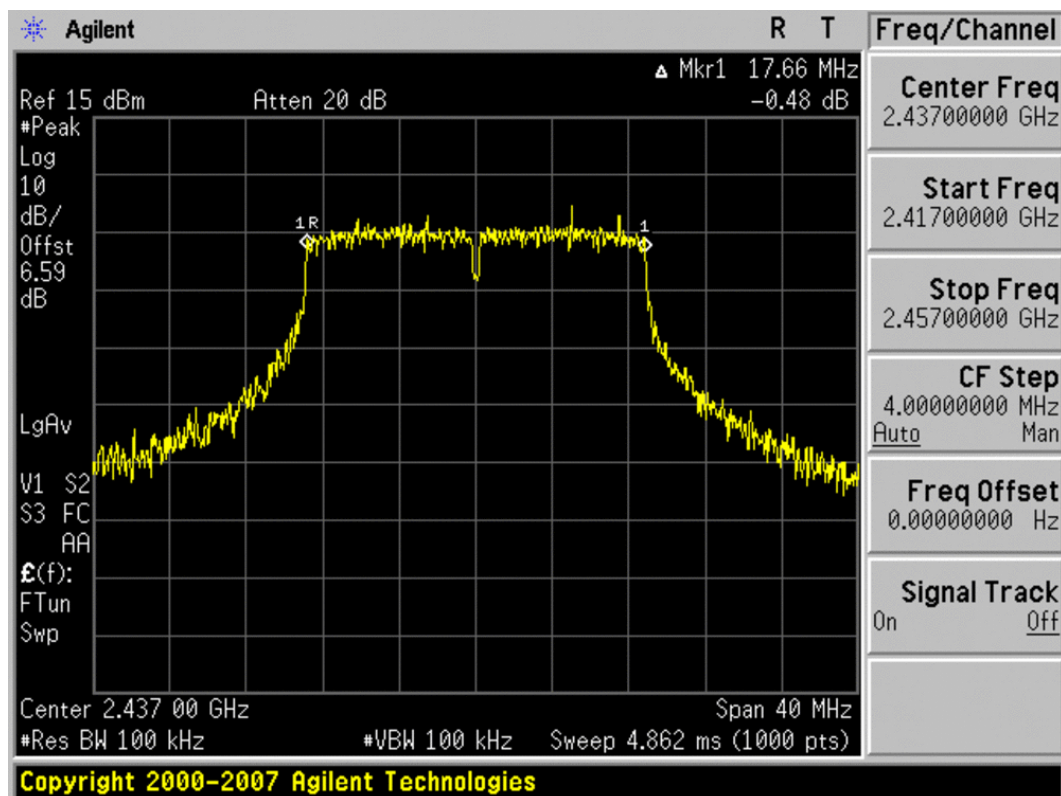


Plot 6-6. 6dB Bandwidth Plot (802.11g – Ch. 11)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 14 of 65                   |

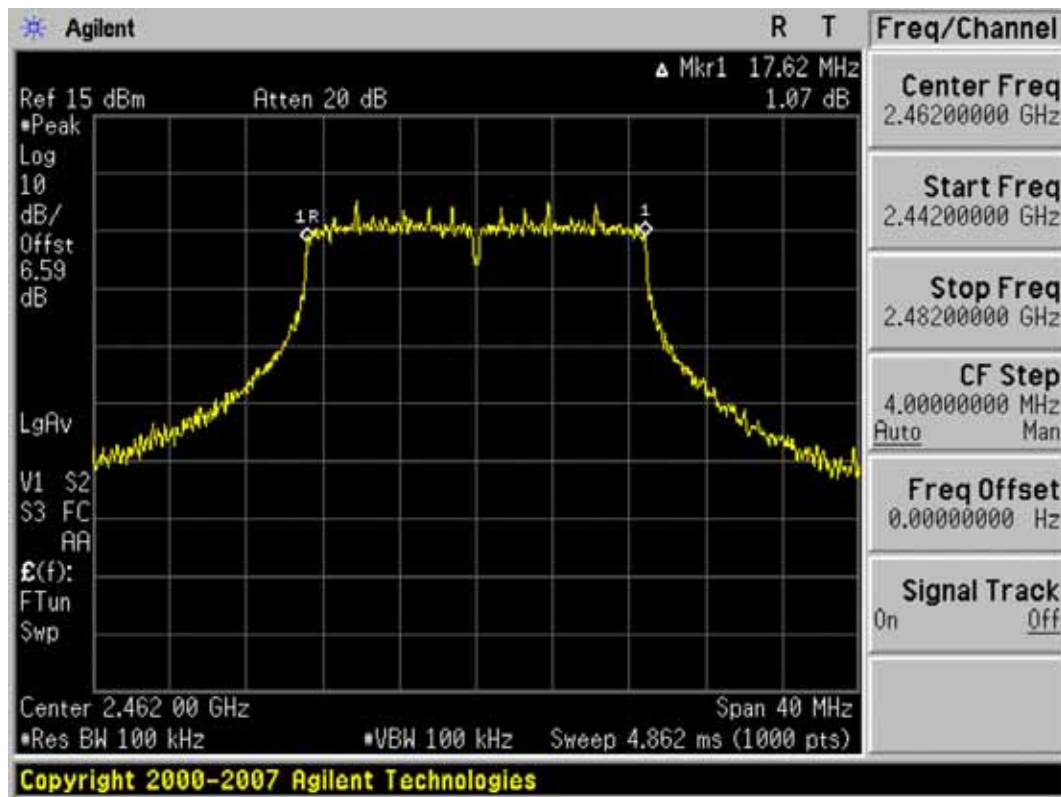


Plot 6-7. 6dB Bandwidth Plot (802.11n (2.4GHz) – Ch. 1)

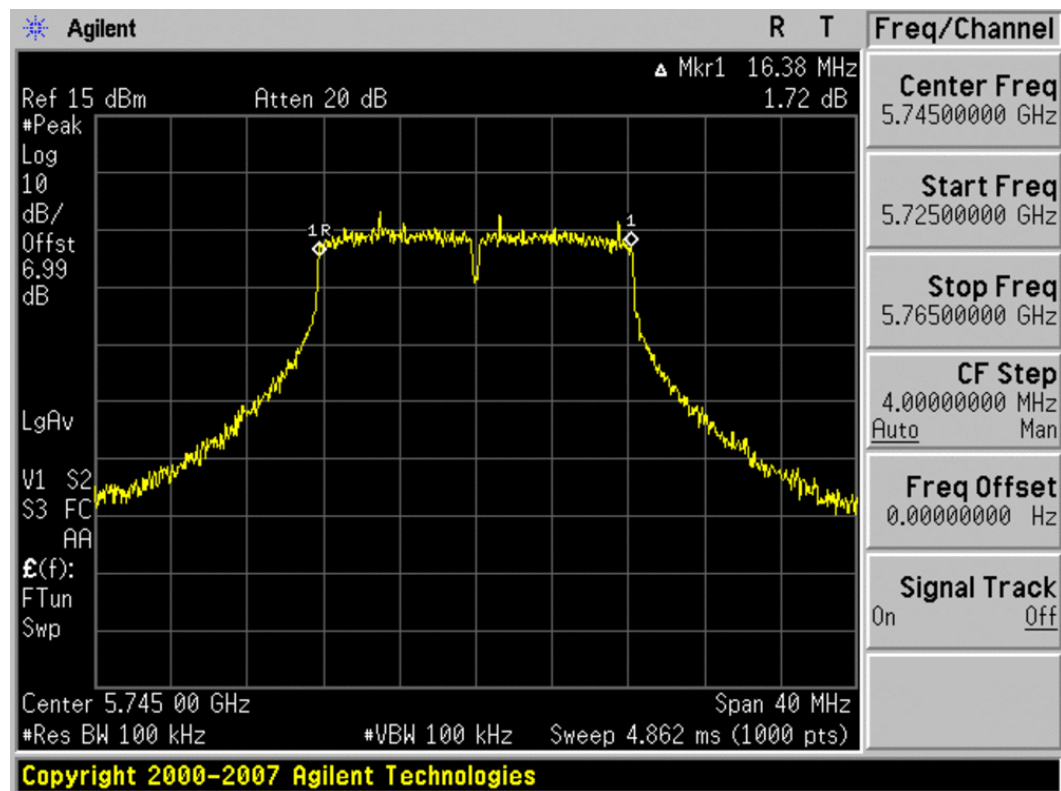


Plot 6-8. 6dB Bandwidth Plot (802.11n (2.4GHz) – Ch. 6)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 15 of 65                   |

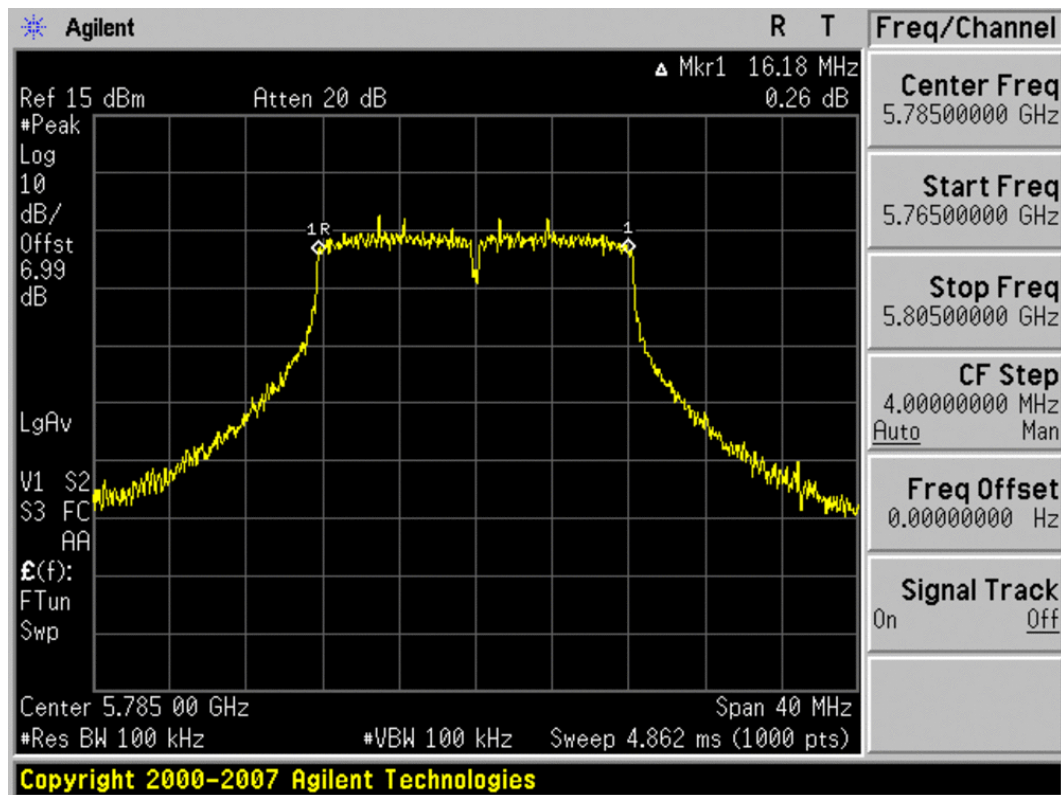


Plot 6-9. 6dB Bandwidth Plot (802.11n (2.4GHz) – Ch. 11)

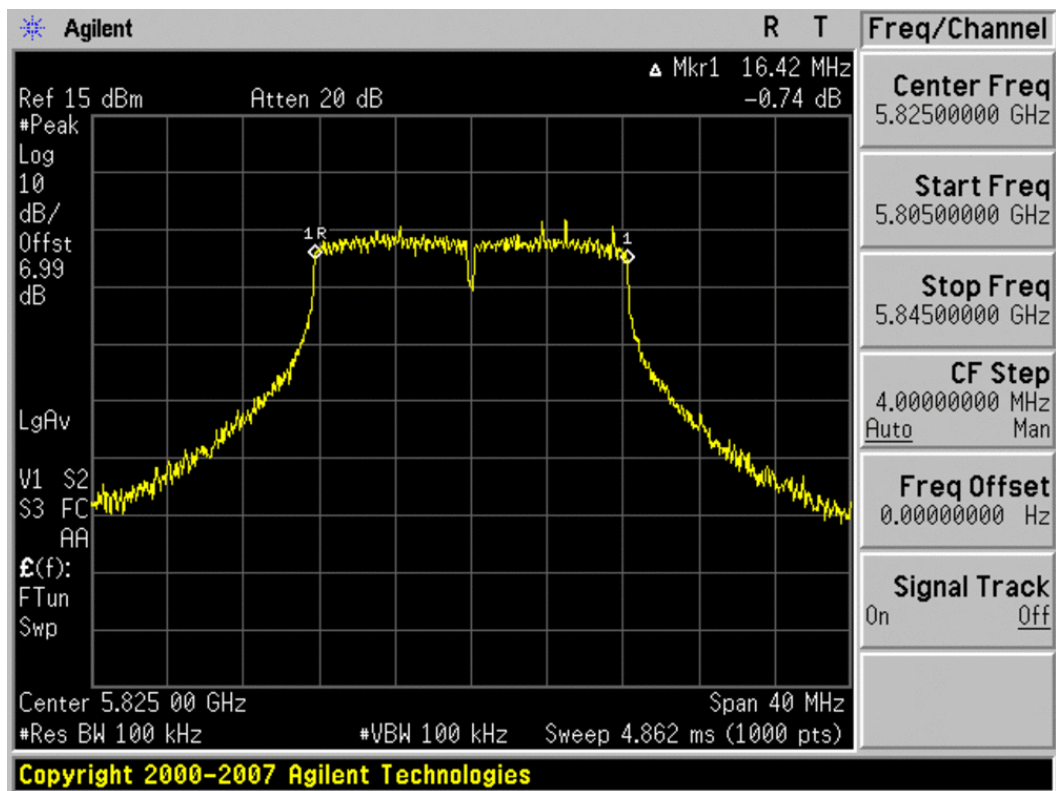


Plot 6-10. 6dB Bandwidth Plot (802.11a – Ch. 149)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 16 of 65                   |

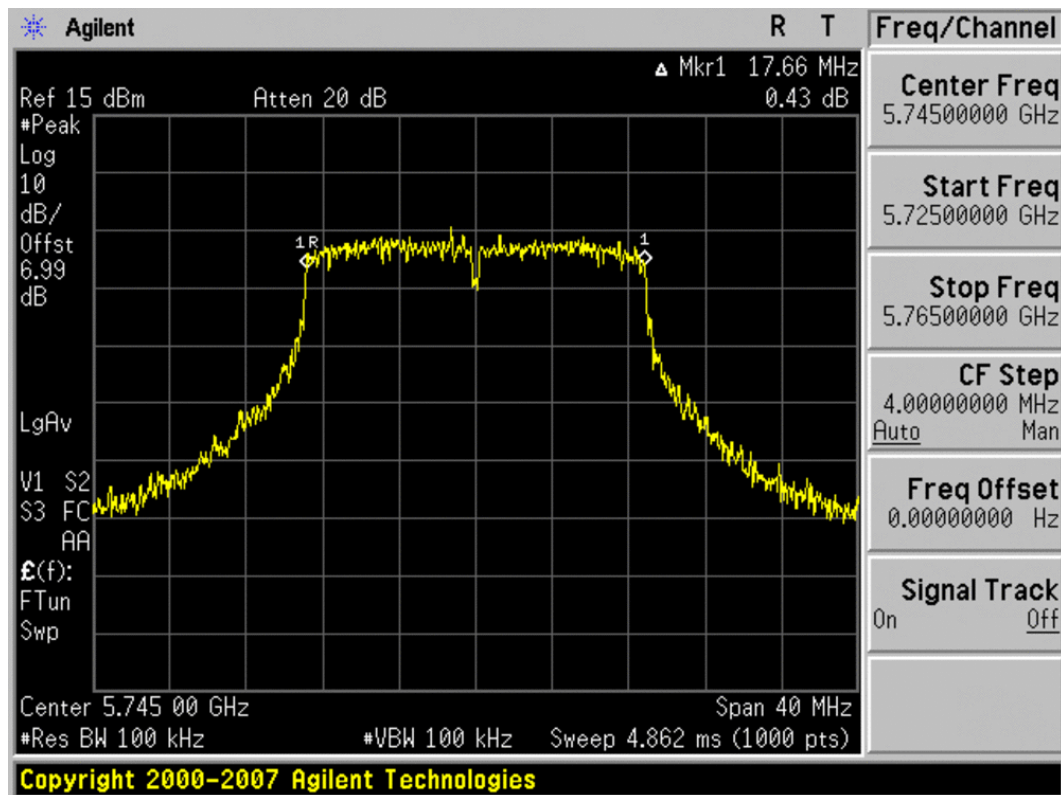


Plot 6-11. 6dB Bandwidth Plot (802.11a – Ch. 157)

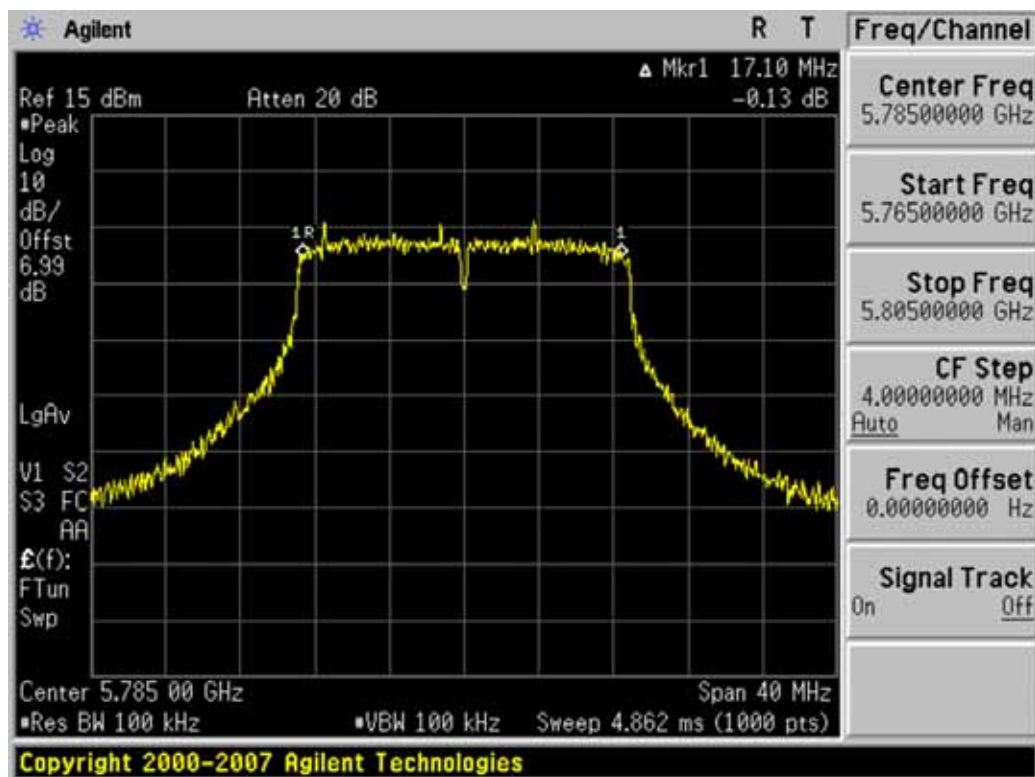


Plot 6-12. 6dB Bandwidth Plot (802.11a – Ch. 165)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 17 of 65                   |

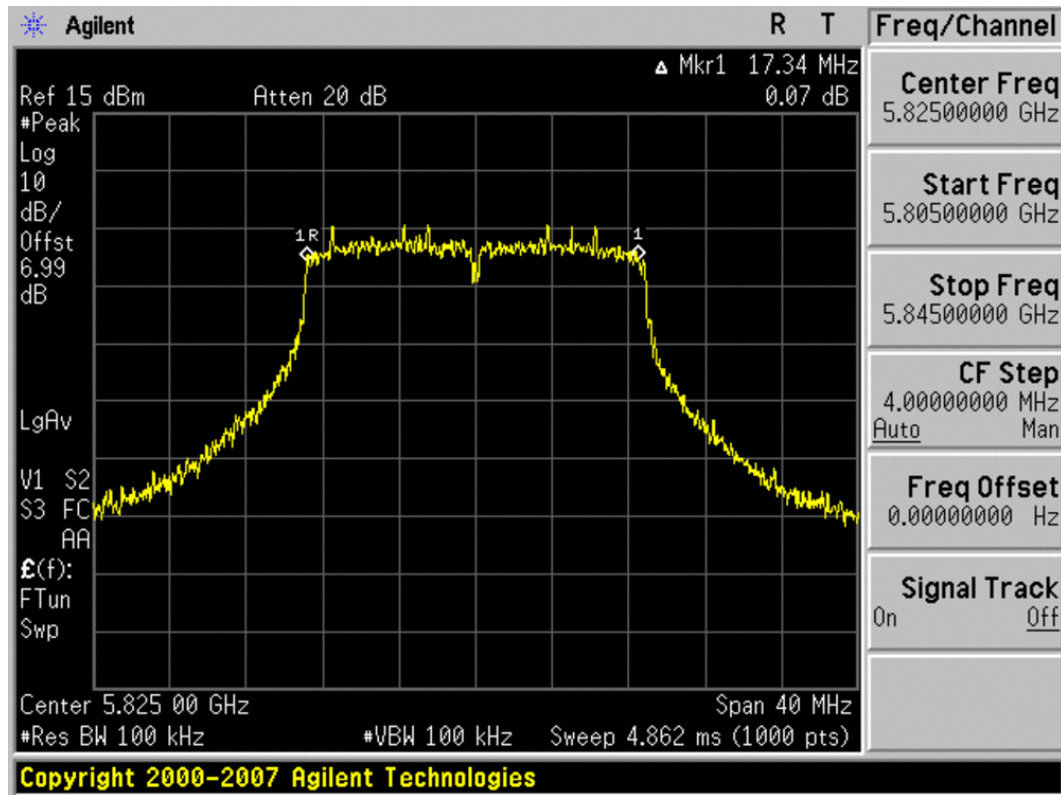


Plot 6-13. 6dB Bandwidth Plot (802.11n (5.8GHz) – Ch. 149)



Plot 6-14. 6dB Bandwidth Plot (802.11n (5.8GHz) – Ch. 157)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 18 of 65                   |



Plot 6-15. 6dB Bandwidth Plot (802.11n (5.8GHz) – Ch. 165)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 19 of 65                   |

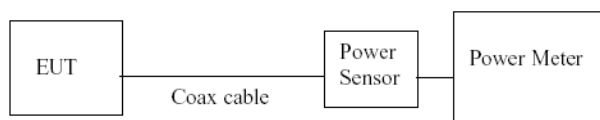
### 6.3 Output Power Measurement – 802.11b/g

**§15.247(b)(3); RSS-210 [A8.4]**

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter while the EUT is operating in transmission mode at the appropriate frequencies. **The maximum permissible conducted output power is 1 Watt.**

| Freq [MHz] | Channel | Data Rate [Mbps] | Measured Average Power [dBm] | Measured Peak Power [dBm] |
|------------|---------|------------------|------------------------------|---------------------------|
| 2412       | 1       | 1                | 12.60                        | 15.04                     |
|            |         | 2                | 12.42                        | 14.88                     |
|            |         | 5.5              | 12.42                        | 14.89                     |
|            |         | 11               | 12.40                        | 14.87                     |
| 2437       | 6       | 1                | 11.72                        | 14.16                     |
|            |         | 2                | 11.86                        | 14.25                     |
|            |         | 5.5              | 11.76                        | 14.29                     |
|            |         | 11               | 11.85                        | 14.28                     |
| 2462       | 11      | 1                | 11.90                        | 14.32                     |
|            |         | 2                | 11.88                        | 14.31                     |
|            |         | 5.5              | 11.87                        | 14.30                     |
|            |         | 11               | 11.89                        | 14.31                     |

**Table 6-3. 802.11b Conducted Output Power Measurements**



**Figure 6-2. Test Instrument & Measurement Setup**

| Freq [MHz] | Channel | Data Rate [Mbps] | Measured Average Power [dBm] | Measured Peak Power [dBm] |
|------------|---------|------------------|------------------------------|---------------------------|
| 2412       | 1       | 6                | 12.93                        | 21.78                     |
|            |         | 9                | 12.94                        | 21.72                     |
|            |         | 12               | 12.96                        | 22.05                     |
|            |         | 18               | 12.99                        | 21.46                     |
|            |         | 24               | 12.94                        | 22.31                     |
|            |         | 36               | 12.86                        | 21.91                     |
|            |         | 48               | 12.95                        | 21.79                     |
|            |         | 54               | 12.89                        | 21.91                     |
| 2437       | 6       | 6                | 12.48                        | 21.45                     |
|            |         | 9                | 12.49                        | 21.54                     |
|            |         | 12               | 12.44                        | 21.82                     |
|            |         | 18               | 12.51                        | 21.27                     |
|            |         | 24               | 12.43                        | 22.10                     |
|            |         | 36               | 12.41                        | 21.76                     |
|            |         | 48               | 12.46                        | 21.45                     |
|            |         | 54               | 12.37                        | 21.66                     |
| 2462       | 11      | 6                | 13.03                        | 22.02                     |
|            |         | 9                | 13.01                        | 21.94                     |
|            |         | 12               | 12.95                        | 22.27                     |
|            |         | 18               | 12.96                        | 21.56                     |
|            |         | 24               | 12.89                        | 22.51                     |
|            |         | 36               | 12.85                        | 22.10                     |
|            |         | 48               | 12.89                        | 21.97                     |
|            |         | 54               | 12.87                        | 22.19                     |

**Table 6-4. 802.11g Conducted Output Power Measurements**

|                                      |                                                                                     |                                                                 |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                           |                                                                                       | Page 20 of 65                   |

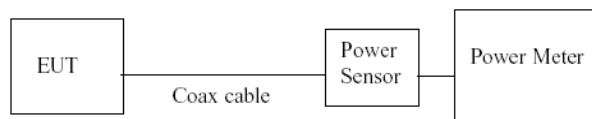
## 6.4 Output Power Measurement – 802.11n (2.4GHz)

§15.247(b)(3); RSS-210 [A8.4]

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter while the EUT is operating in transmission mode at the appropriate frequencies. **The maximum permissible conducted output power is 1 Watt.**

| Freq [MHz] | Channel | MCS Index | Data Rate [Mbps] | Measured Average Power [dBm] | Measured Peak Power [dBm] |
|------------|---------|-----------|------------------|------------------------------|---------------------------|
| 2412       | 1       | 0         | 6.5/7.2          | 11.80                        | 19.78                     |
|            |         | 1         | 13/14.4          | 11.69                        | 19.99                     |
|            |         | 2         | 19.5/21.7        | 11.79                        | 19.92                     |
|            |         | 3         | 26/28.9          | 11.73                        | 19.84                     |
|            |         | 4         | 39/43.3          | 11.74                        | 19.79                     |
|            |         | 5         | 52/57.8          | 11.79                        | 19.68                     |
|            |         | 6         | 58.5/65          | 11.66                        | 20.14                     |
|            |         | 7         | 65/72.2          | 11.80                        | 19.93                     |
| 2437       | 6       | 0         | 6.5/7.2          | 11.15                        | 19.16                     |
|            |         | 1         | 13/14.4          | 11.28                        | 19.50                     |
|            |         | 2         | 19.5/21.7        | 11.34                        | 19.36                     |
|            |         | 3         | 26/28.9          | 11.38                        | 19.45                     |
|            |         | 4         | 39/43.3          | 11.36                        | 19.37                     |
|            |         | 5         | 52/57.8          | 11.27                        | 19.25                     |
|            |         | 6         | 58.5/65          | 11.36                        | 19.85                     |
|            |         | 7         | 65/72.2          | 11.33                        | 19.59                     |
| 2462       | 11      | 0         | 6.5/7.2          | 11.93                        | 19.75                     |
|            |         | 1         | 13/14.4          | 11.73                        | 20.24                     |
|            |         | 2         | 19.5/21.7        | 11.92                        | 20.03                     |
|            |         | 3         | 26/28.9          | 11.95                        | 20.01                     |
|            |         | 4         | 39/43.3          | 11.95                        | 19.79                     |
|            |         | 5         | 52/57.8          | 11.88                        | 20.01                     |
|            |         | 6         | 58.5/65          | 11.92                        | 20.32                     |
|            |         | 7         | 65/72.2          | 11.90                        | 20.00                     |

**Table 6-5. 802.11n (2.4GHz) Conducted Output Power Measurements**



**Figure 6-3. Test Instrument & Measurement Setup**

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 21 of 65                   |

## 6.5 Output Power Measurement – 802.11a

§15.247(b)(3); RSS-210 [A8.4]

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter while the EUT is operating in transmission mode at the appropriate frequencies. ***The maximum permissible conducted output power is 1 Watt.***

| Freq [MHz] | Channel | Data Rate [Mbps] | Measured Average Power [dBm] | Measured Peak Power [dBm] |
|------------|---------|------------------|------------------------------|---------------------------|
| 5745       | 149     | 6                | 11.27                        | 19.08                     |
|            |         | 9                | 11.12                        | 18.97                     |
|            |         | 12               | 11.11                        | 19.03                     |
|            |         | 18               | 11.33                        | 18.67                     |
|            |         | 24               | 11.27                        | 19.96                     |
|            |         | 36               | 11.12                        | 19.18                     |
|            |         | 48               | 11.25                        | 18.76                     |
|            |         | 54               | 11.19                        | 19.05                     |
| 5785       | 157     | 6                | 11.20                        | 18.78                     |
|            |         | 9                | 11.26                        | 19.04                     |
|            |         | 12               | 11.18                        | 19.30                     |
|            |         | 18               | 11.23                        | 18.64                     |
|            |         | 24               | 11.06                        | 19.65                     |
|            |         | 36               | 11.05                        | 18.99                     |
|            |         | 48               | 11.14                        | 18.82                     |
|            |         | 54               | 11.12                        | 19.00                     |
| 5825       | 165     | 6                | 11.20                        | 18.86                     |
|            |         | 9                | 11.19                        | 18.95                     |
|            |         | 12               | 11.02                        | 19.04                     |
|            |         | 18               | 11.23                        | 18.62                     |
|            |         | 24               | 10.67                        | 19.26                     |
|            |         | 36               | 10.62                        | 18.48                     |
|            |         | 48               | 11.20                        | 18.80                     |
|            |         | 54               | 11.14                        | 19.09                     |

Table 6-6. 802.11a Conducted Output Power Measurements

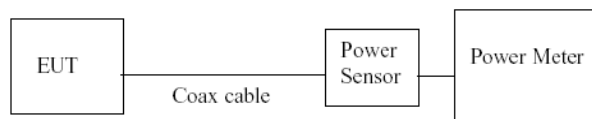


Figure 6-4. Test Instrument & Measurement Setup

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 22 of 65                   |

## 6.6 Output Power Measurement – 802.11n (5.8GHz)

§15.247(b)(3); RSS-210 [A8.4]

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter while the EUT is operating in transmission mode at the appropriate frequencies. **The maximum permissible conducted output power is 1 Watt.**

| Freq [MHz] | Channel | MCS Index | Data Rate [Mbps] | Measured Average Power [dBm] | Measured Peak Power [dBm] |
|------------|---------|-----------|------------------|------------------------------|---------------------------|
| 5745       | 149     | 0         | 6.5/7.2          | 9.71                         | 17.28                     |
|            |         | 1         | 13/14.4          | 9.65                         | 17.59                     |
|            |         | 2         | 19.5/21.7        | 9.73                         | 17.39                     |
|            |         | 3         | 26/28.9          | 9.74                         | 17.23                     |
|            |         | 4         | 39/43.3          | 9.79                         | 17.36                     |
|            |         | 5         | 52/57.8          | 9.75                         | 17.27                     |
|            |         | 6         | 58.5/65          | 9.85                         | 18.09                     |
|            |         | 7         | 65/72.2          | 9.48                         | 17.06                     |
| 5785       | 157     | 0         | 6.5/7.2          | 10.05                        | 17.46                     |
|            |         | 1         | 13/14.4          | 10.03                        | 17.91                     |
|            |         | 2         | 19.5/21.7        | 10.02                        | 17.52                     |
|            |         | 3         | 26/28.9          | 10.16                        | 17.59                     |
|            |         | 4         | 39/43.3          | 10.09                        | 17.63                     |
|            |         | 5         | 52/57.8          | 10.15                        | 17.79                     |
|            |         | 6         | 58.5/65          | 10.07                        | 18.31                     |
|            |         | 7         | 65/72.2          | 10.00                        | 17.59                     |
| 5825       | 165     | 0         | 6.5/7.2          | 10.07                        | 17.46                     |
|            |         | 1         | 13/14.4          | 9.91                         | 17.90                     |
|            |         | 2         | 19.5/21.7        | 10.05                        | 17.49                     |
|            |         | 3         | 26/28.9          | 10.08                        | 17.72                     |
|            |         | 4         | 39/43.3          | 10.08                        | 17.55                     |
|            |         | 5         | 52/57.8          | 10.13                        | 17.77                     |
|            |         | 6         | 58.5/65          | 10.03                        | 18.13                     |
|            |         | 7         | 65/72.2          | 10.02                        | 17.45                     |

Table 6-7. 802.11n (5.8GHz) Conducted Output Power Measurements

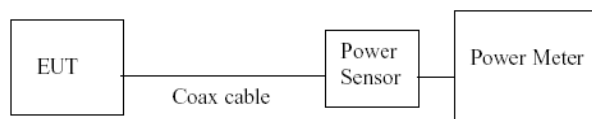


Figure 6-5. Test Instrument & Measurement Setup

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 23 of 65                   |

## 6.7 Power Spectral Density (802.11a/b/g/n)

§15.247(e); RSS-210 [A8.2]

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies. **The maximum permissible power spectral density is 8 dBm in any 3 kHz band.**

| Frequency [MHz] | Channel No. | 802.11 Mode | Measured Power Spectral Density [dBm] | Maximum Permissible Power Density [dBm / 3kHz] | Margin [dB] |
|-----------------|-------------|-------------|---------------------------------------|------------------------------------------------|-------------|
| 2412            | 1           | b           | -16.23                                | 8.0                                            | -24.23      |
| 2437            | 6           | b           | -14.16                                | 8.0                                            | -22.16      |
| 2462            | 11          | b           | -16.02                                | 8.0                                            | -24.02      |
| 2412            | 1           | g           | -15.41                                | 8.0                                            | -23.41      |
| 2437            | 6           | g           | -13.86                                | 8.0                                            | -21.86      |
| 2462            | 11          | g           | -15.20                                | 8.0                                            | -23.20      |
| 2412            | 1           | n           | -15.15                                | 8.0                                            | -23.15      |
| 2437            | 6           | n           | -16.31                                | 8.0                                            | -24.31      |
| 2462            | 11          | n           | -14.65                                | 8.0                                            | -22.65      |
| 5745            | 149         | a           | -17.73                                | 8.0                                            | -25.73      |
| 5785            | 157         | a           | -18.26                                | 8.0                                            | -26.26      |
| 5825            | 165         | a           | -19.59                                | 8.0                                            | -27.59      |
| 5745            | 149         | n           | -17.19                                | 8.0                                            | -25.19      |
| 5785            | 157         | n           | -18.35                                | 8.0                                            | -26.35      |
| 5825            | 165         | n           | -19.72                                | 8.0                                            | -27.72      |

Table 6-8. Conducted Power Density Measurements

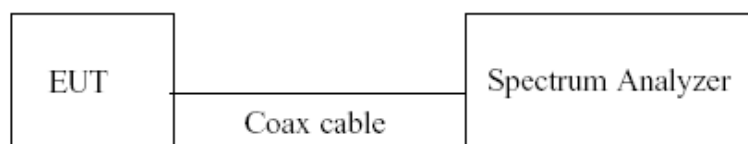
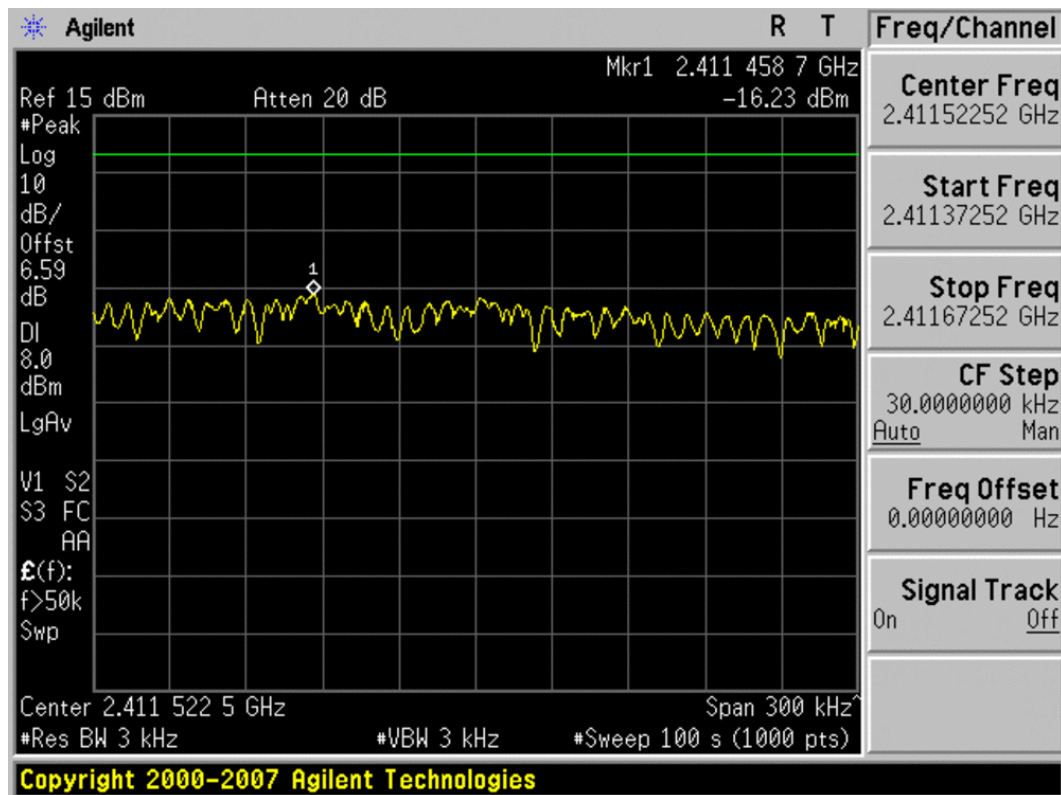
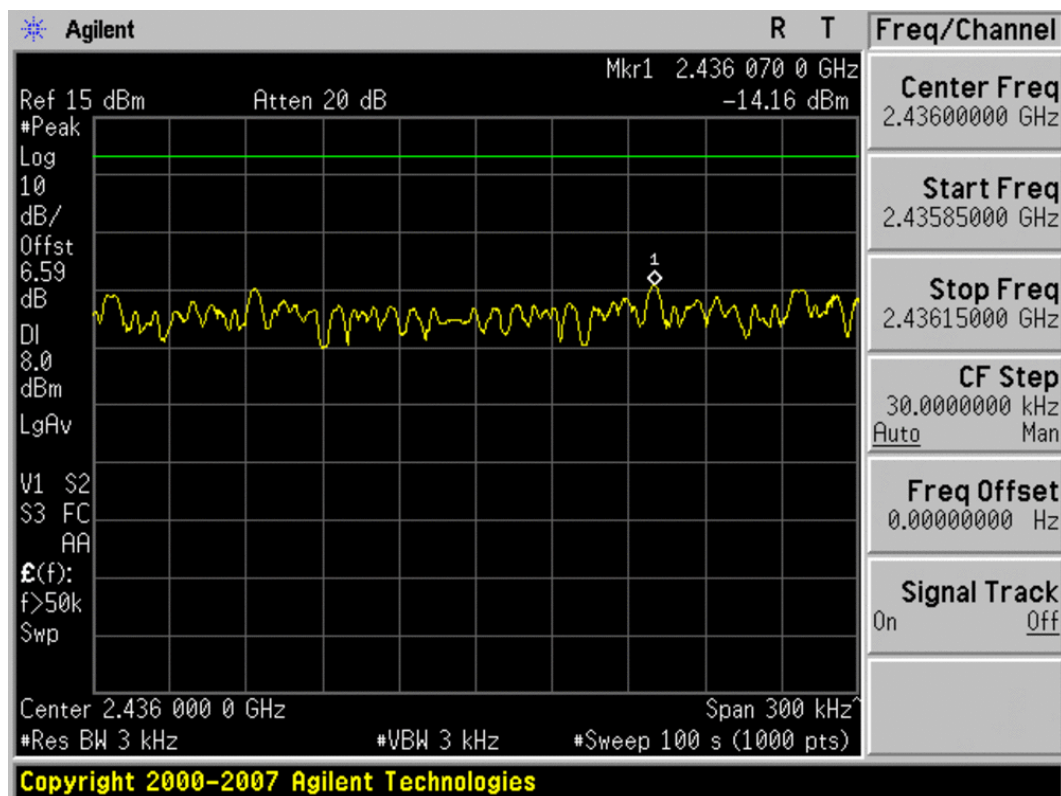


Figure 6-6. Test Instrument & Measurement Setup

|                                      |                                                                                     |                                                                 |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                           |                                                                                       | Page 24 of 65                   |

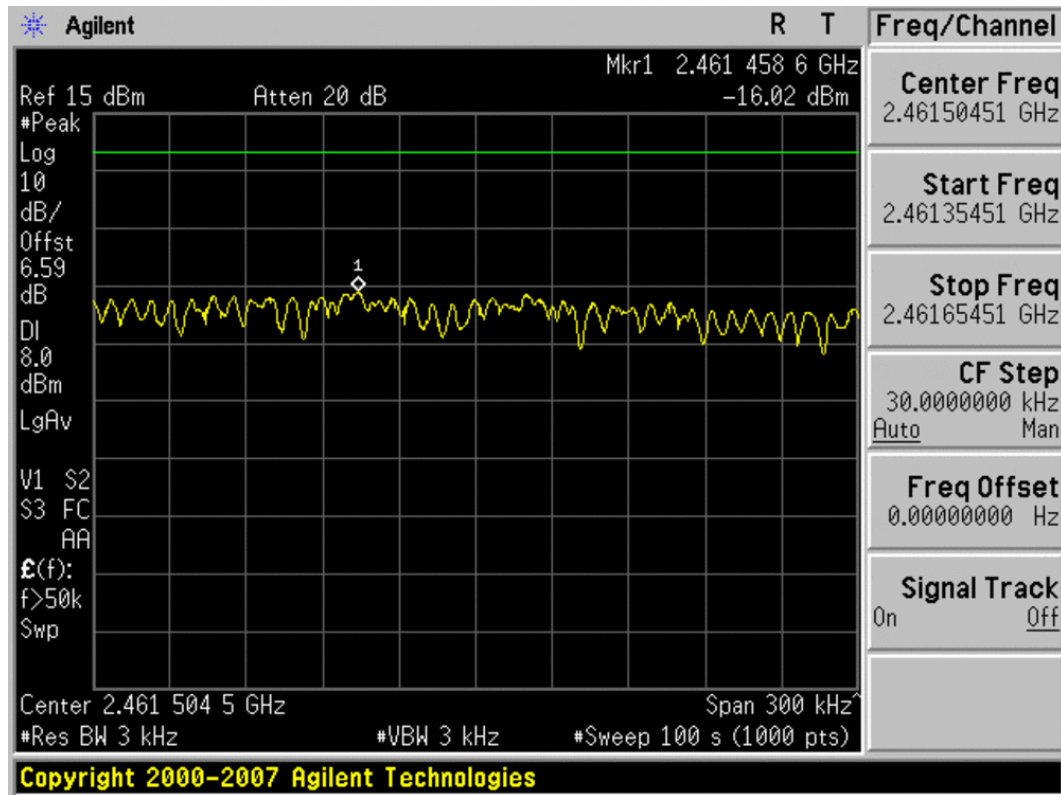


Plot 6-16. Power Spectral Density Plot (802.11b – Ch. 1)

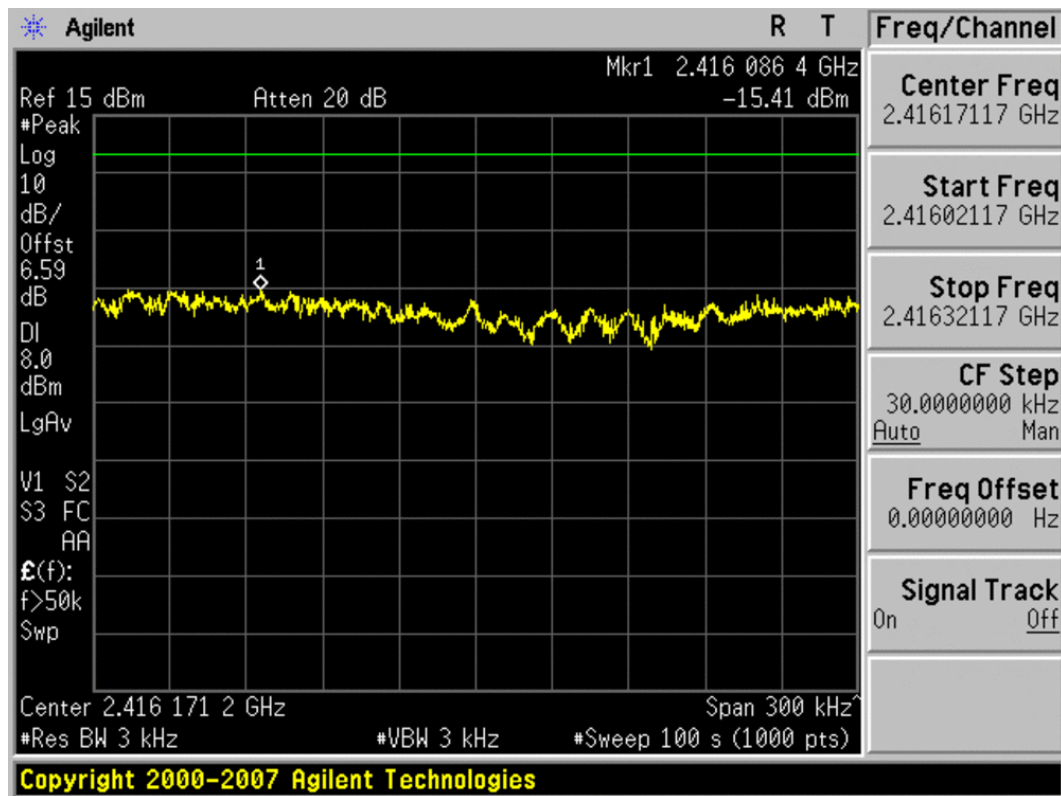


Plot 6-17. Power Spectral Density Plot (802.11b – Ch. 6)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 25 of 65                   |

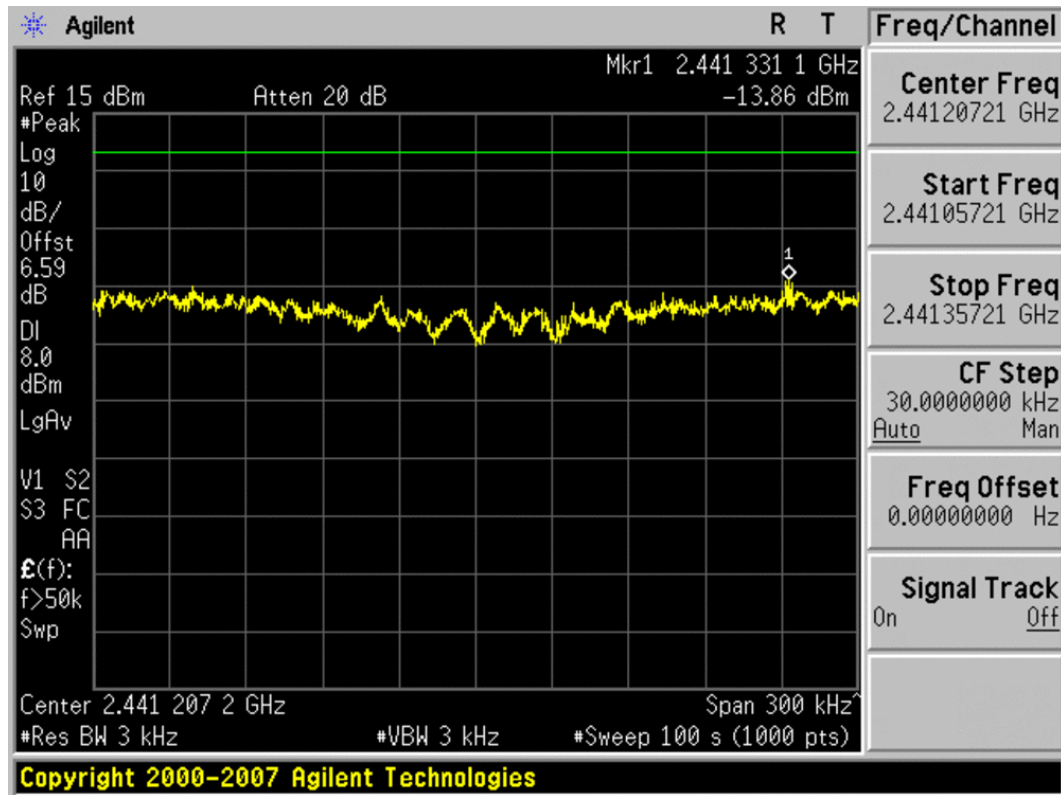


Plot 6-18. Power Spectral Density Plot (802.11b – Ch. 11)

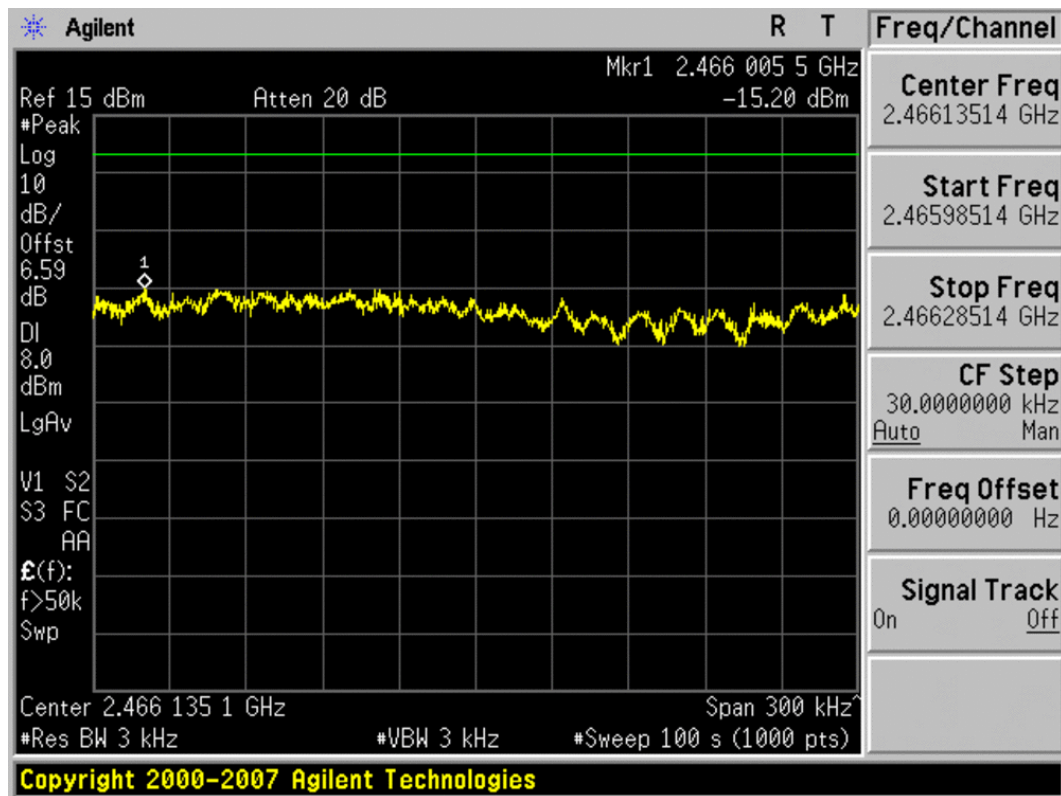


Plot 6-19. Power Spectral Density Plot (802.11g – Ch. 1)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 26 of 65                   |

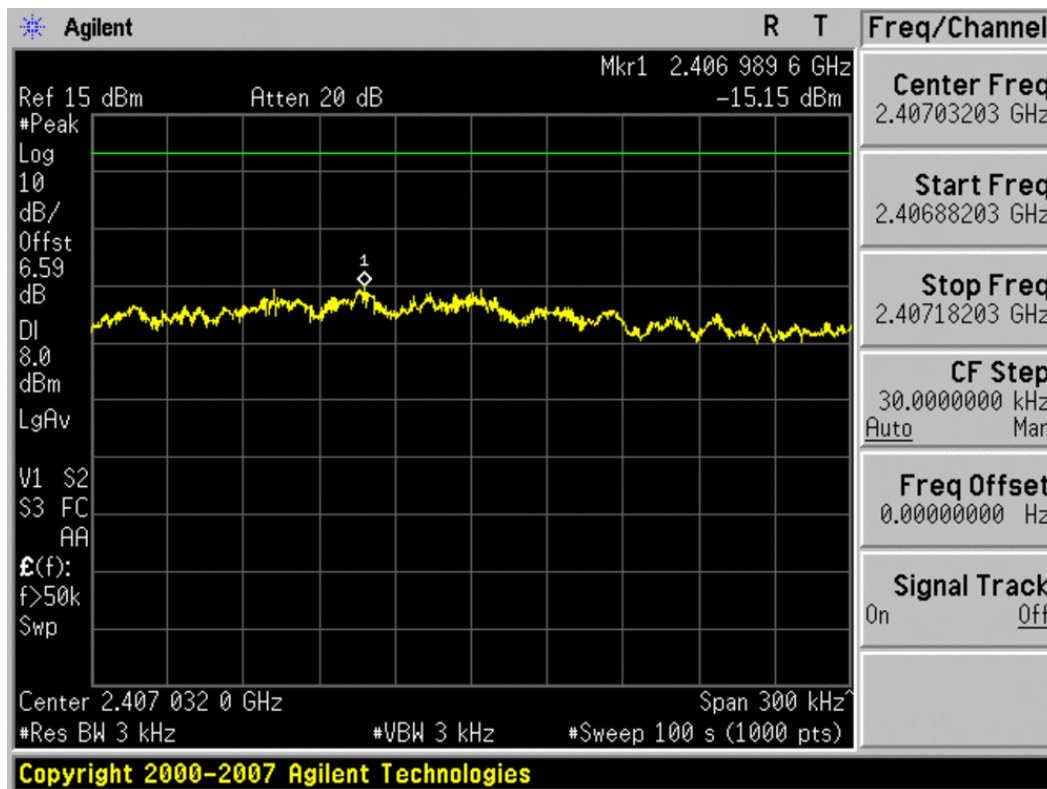


Plot 6-20. Power Spectral Density Plot (802.11g – Ch. 6)

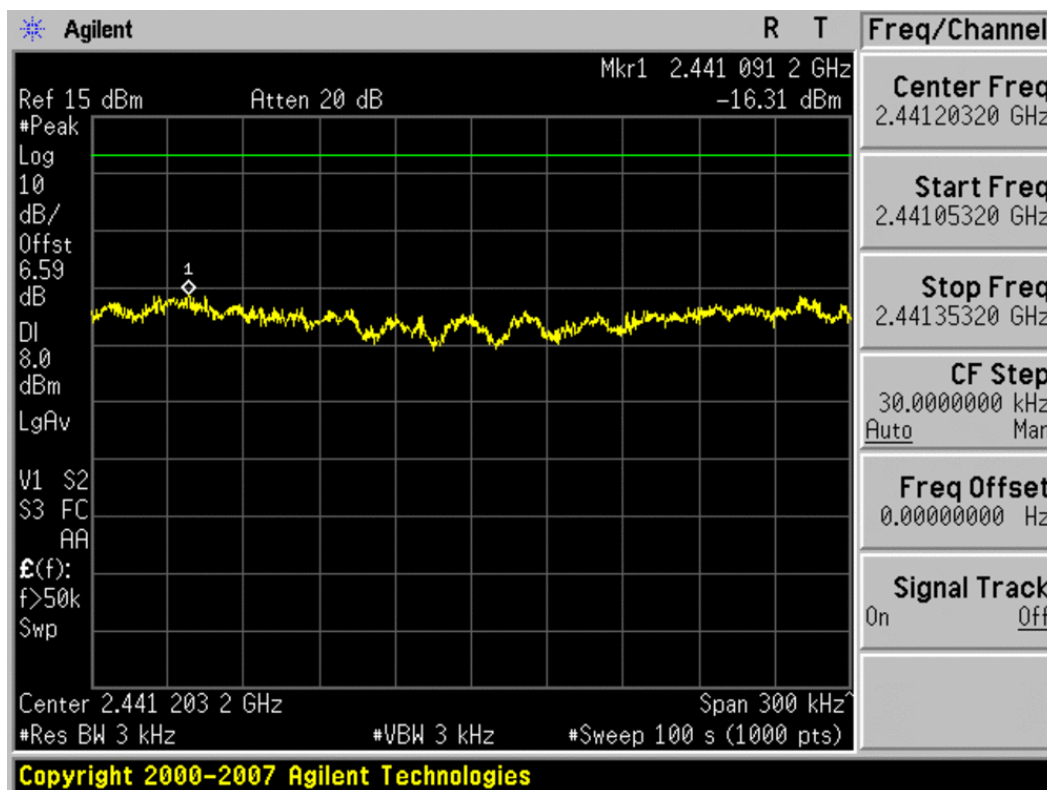


Plot 6-21. Power Spectral Density Plot (802.11g – Ch. 11)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 27 of 65                   |

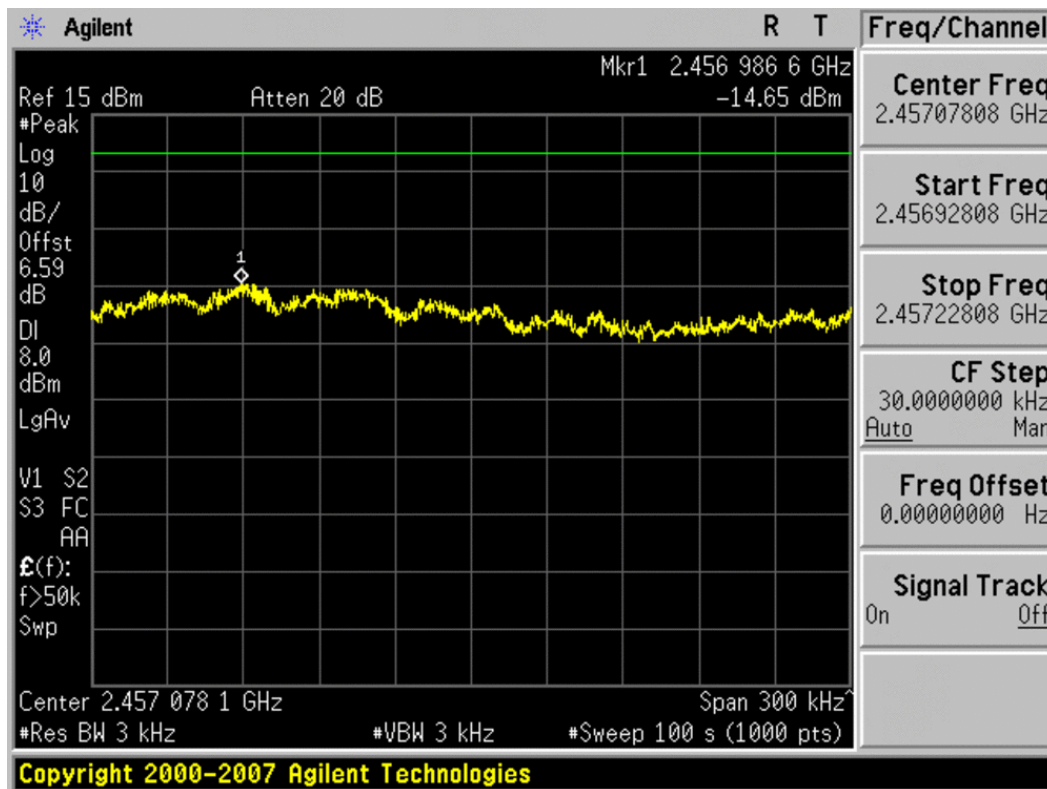


Plot 6-22. Power Spectral Density Plot (802.11n (2.4GHz) – Ch. 1)

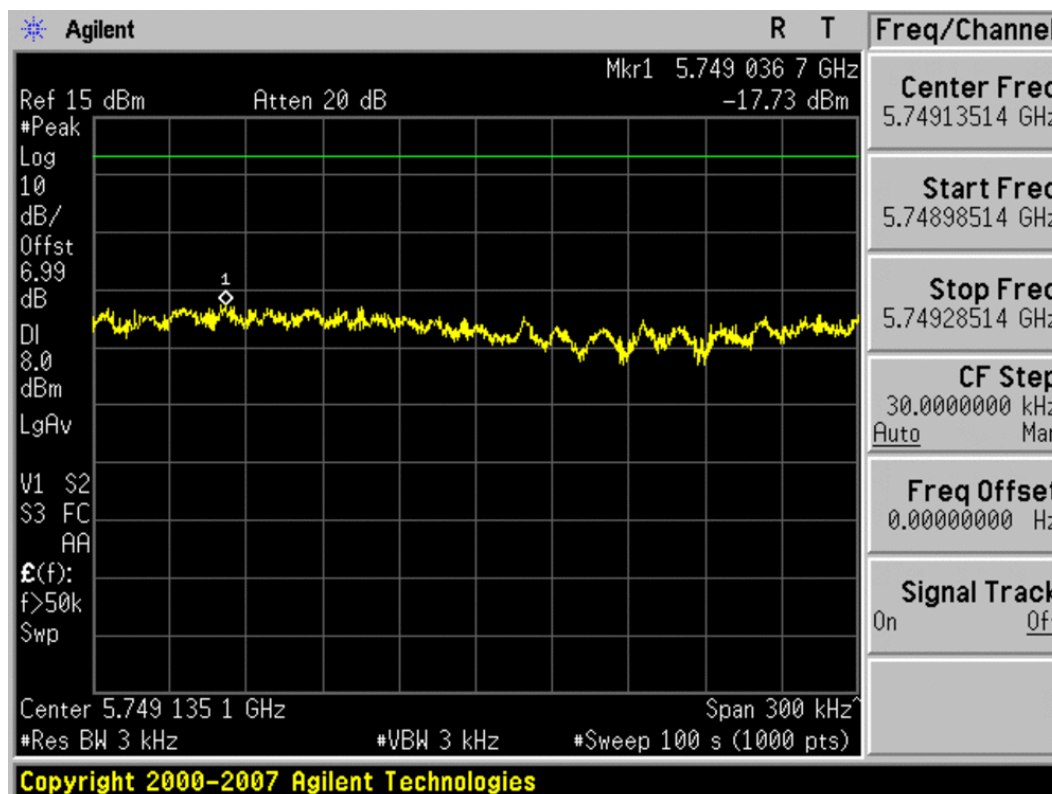


Plot 6-23. Power Spectral Density Plot (802.11n (2.4GHz) – Ch. 6)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 28 of 65                   |

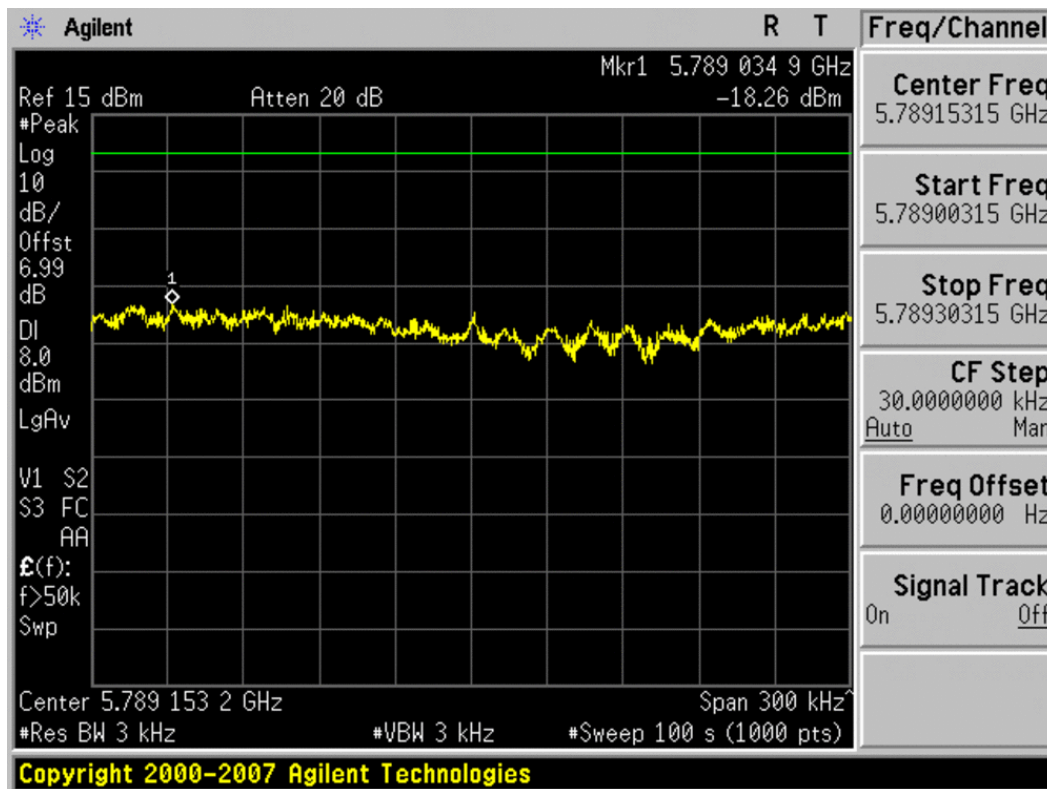


Plot 6-24. Power Spectral Density Plot (802.11n (2.4GHz) – Ch. 11)

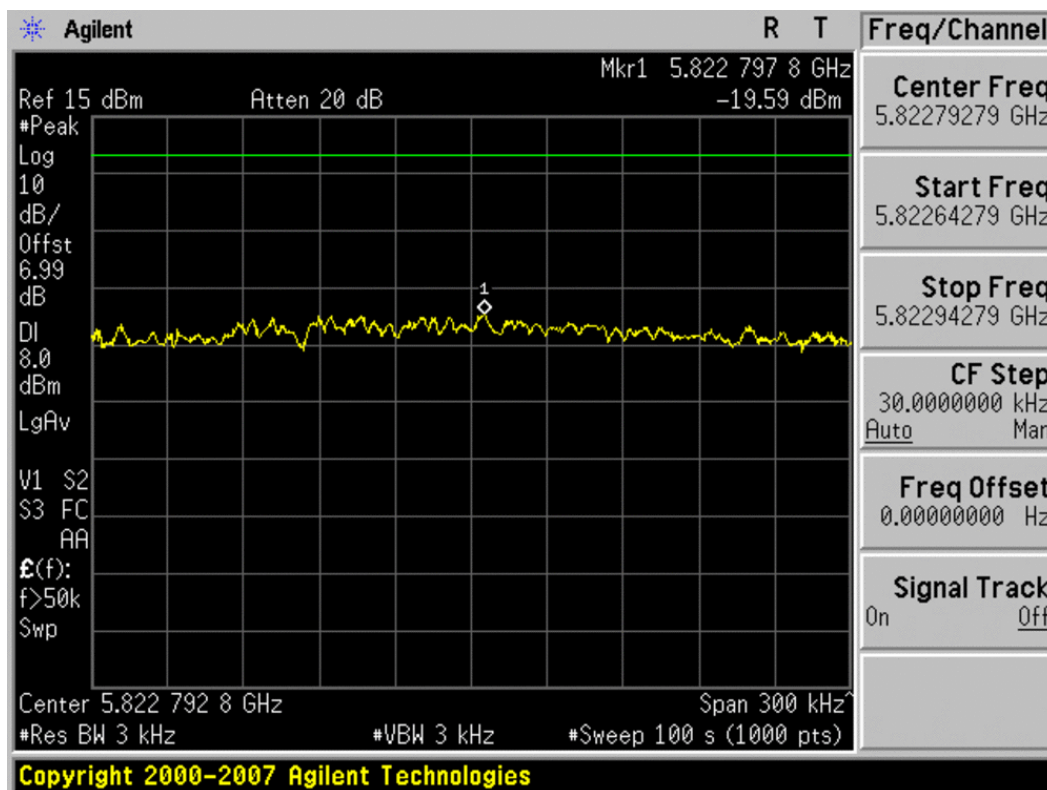


Plot 6-25. Power Spectral Density Plot (802.11a – Ch. 149)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 29 of 65                   |

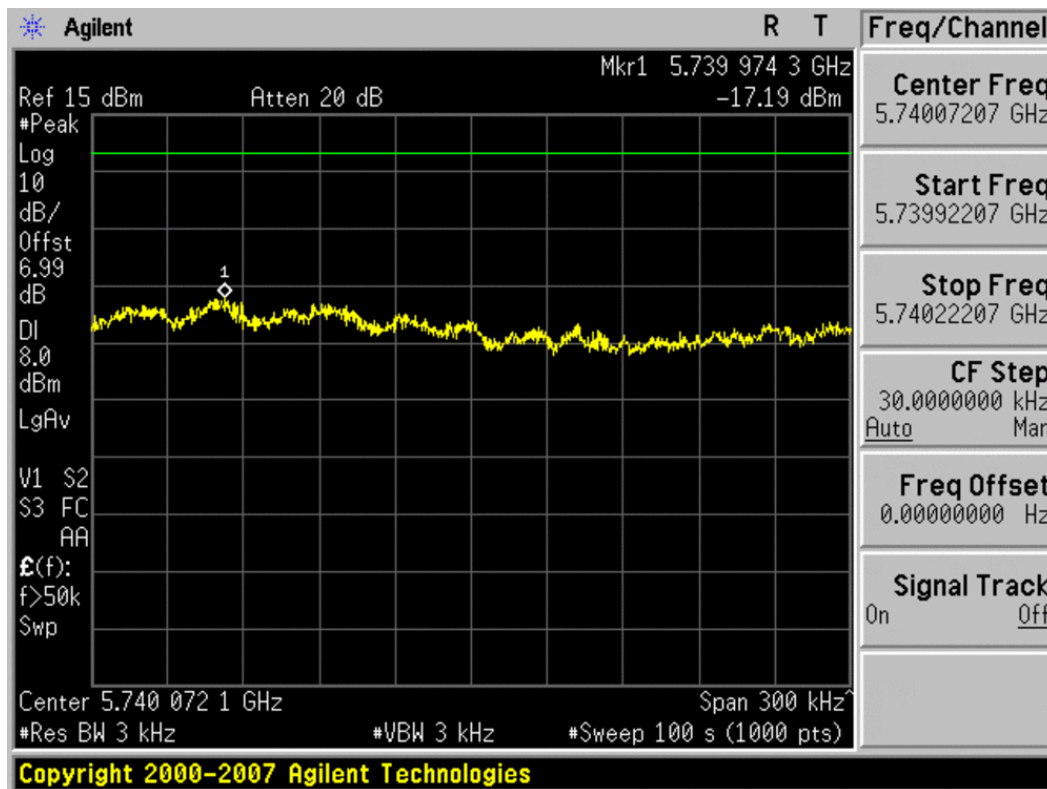


Plot 6-26. Power Spectral Density Plot (802.11a – Ch. 157)

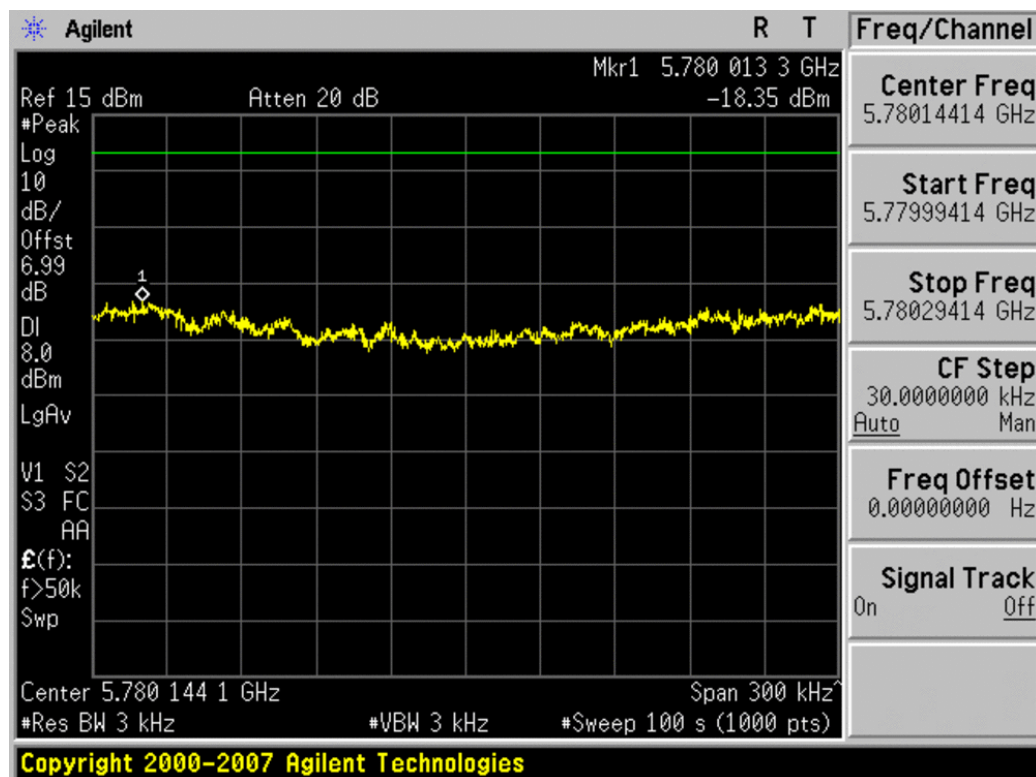


Plot 6-27. Power Spectral Density Plot (802.11a – Ch. 165)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 30 of 65                   |

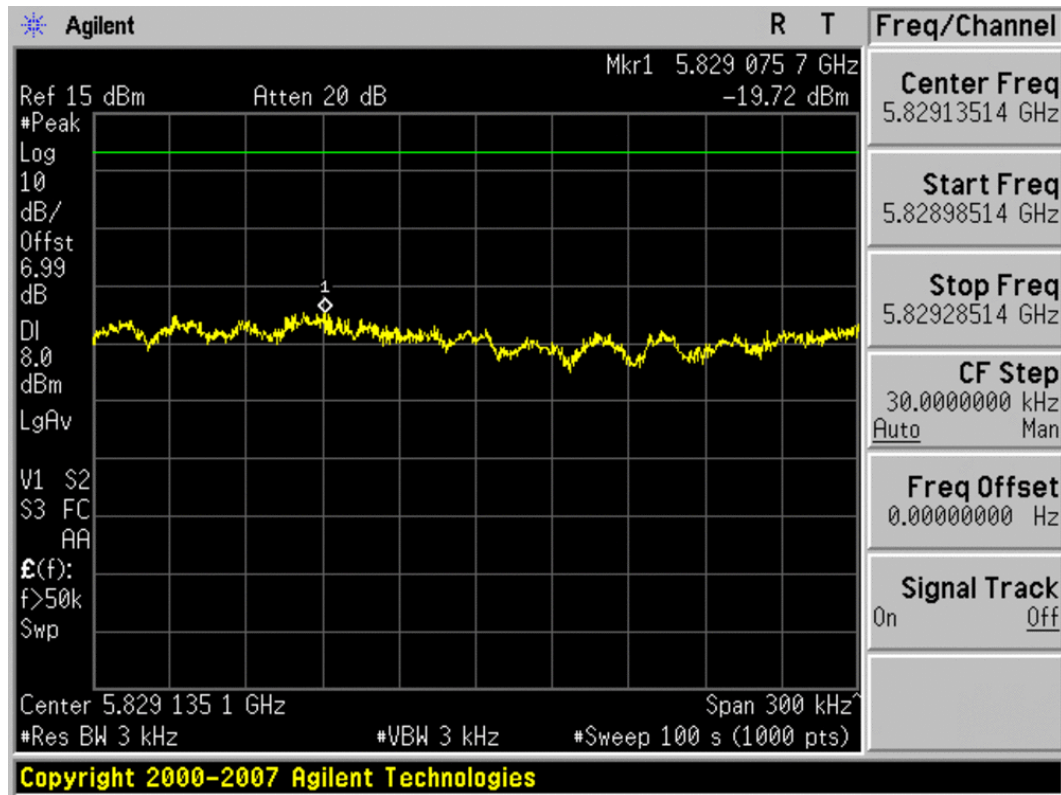


Plot 6-28. Power Spectral Density Plot (802.11n (5.8GHz) – Ch. 149)



Plot 6-29. Power Spectral Density Plot (802.11n (5.8GHz) – Ch. 157)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 31 of 65                   |



Plot 6-30. Power Spectral Density Plot (802.11n (5.8GHz) – Ch. 165)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 32 of 65                   |

## 6.8 Conducted Emissions at the Band Edge

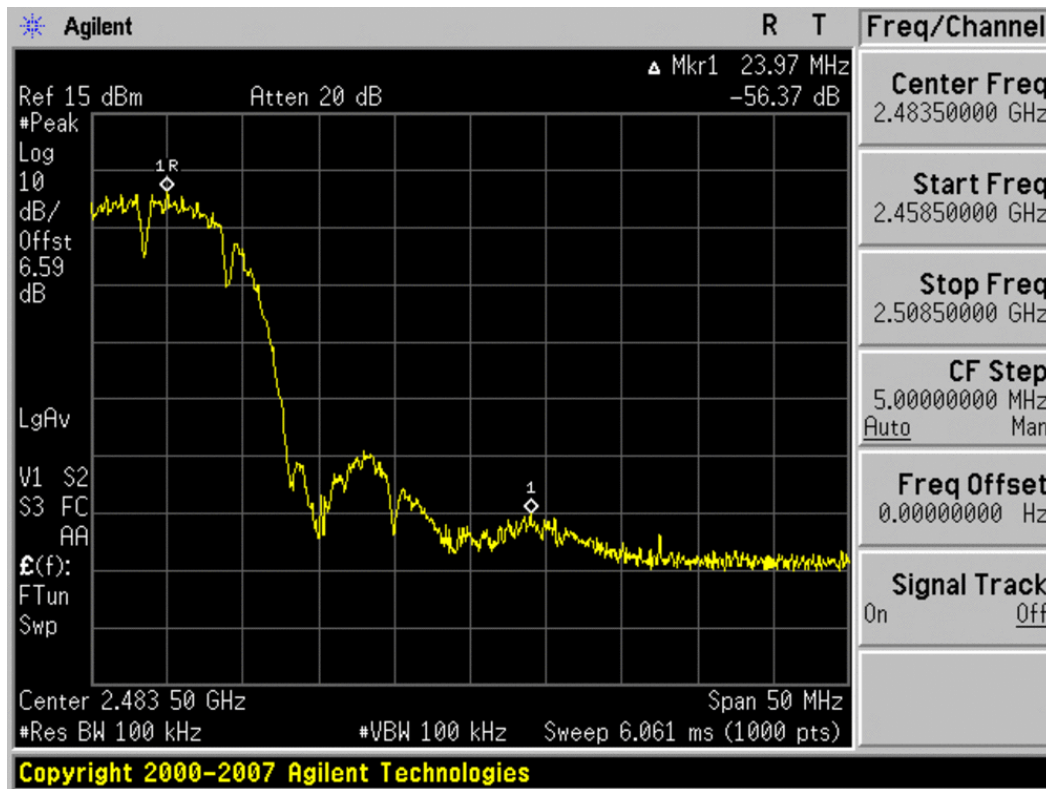
§15.247(d); RSS-210 [A8.5]

For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 1Mbps for “b” mode, 6 Mbps for “g” mode, 6 Mbps for “a” mode, and 6.5/7.2Mbps for “n” mode. These settings produced the worst-case emissions.

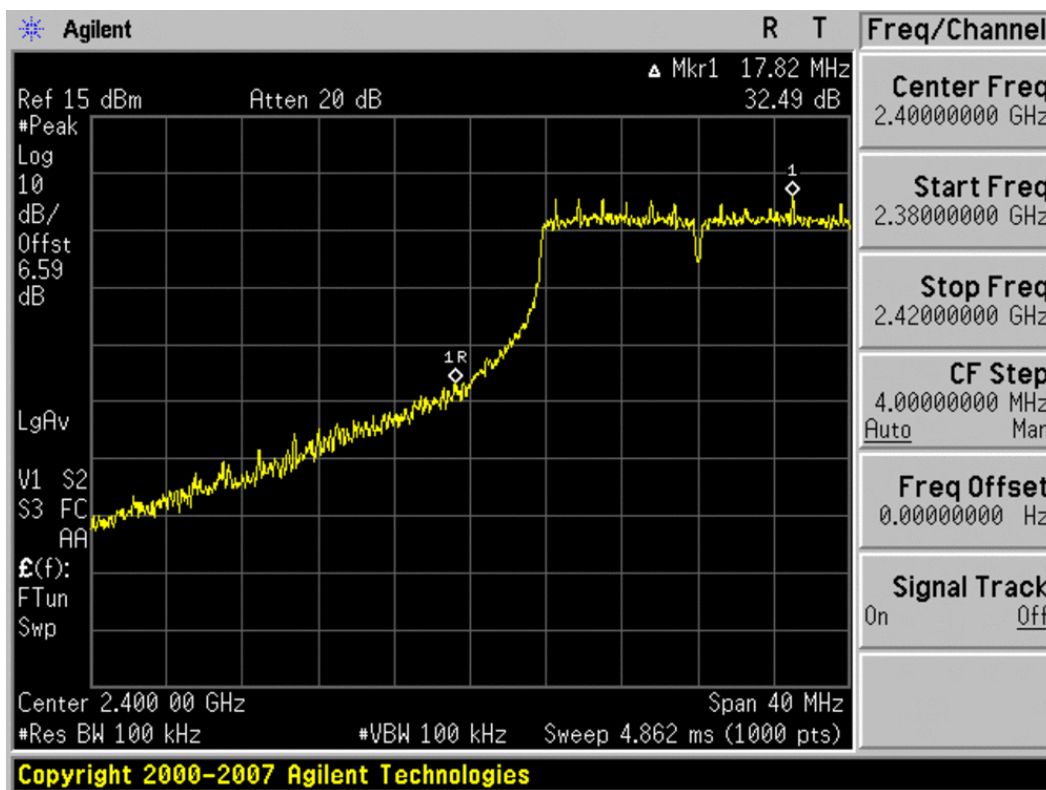


Plot 6-31. Band Edge Plot (802.11b – Ch. 1)

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 33 of 65                   |

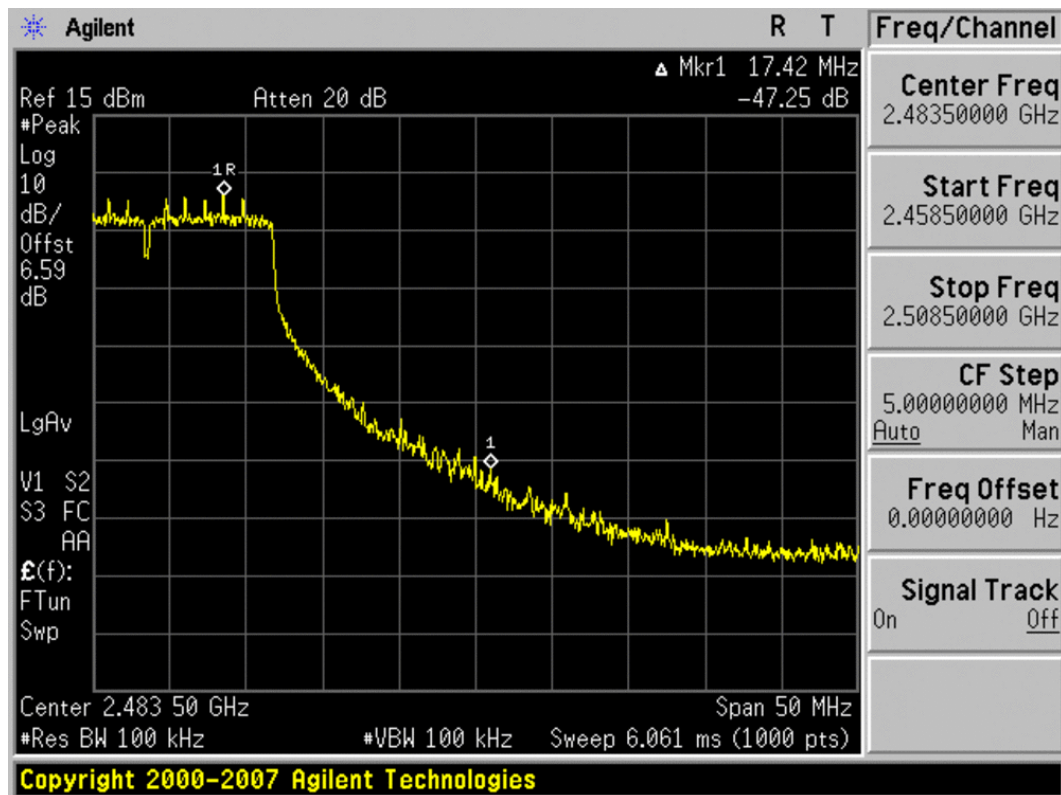


Plot 6-32. Band Edge Plot (802.11b – Ch. 11)

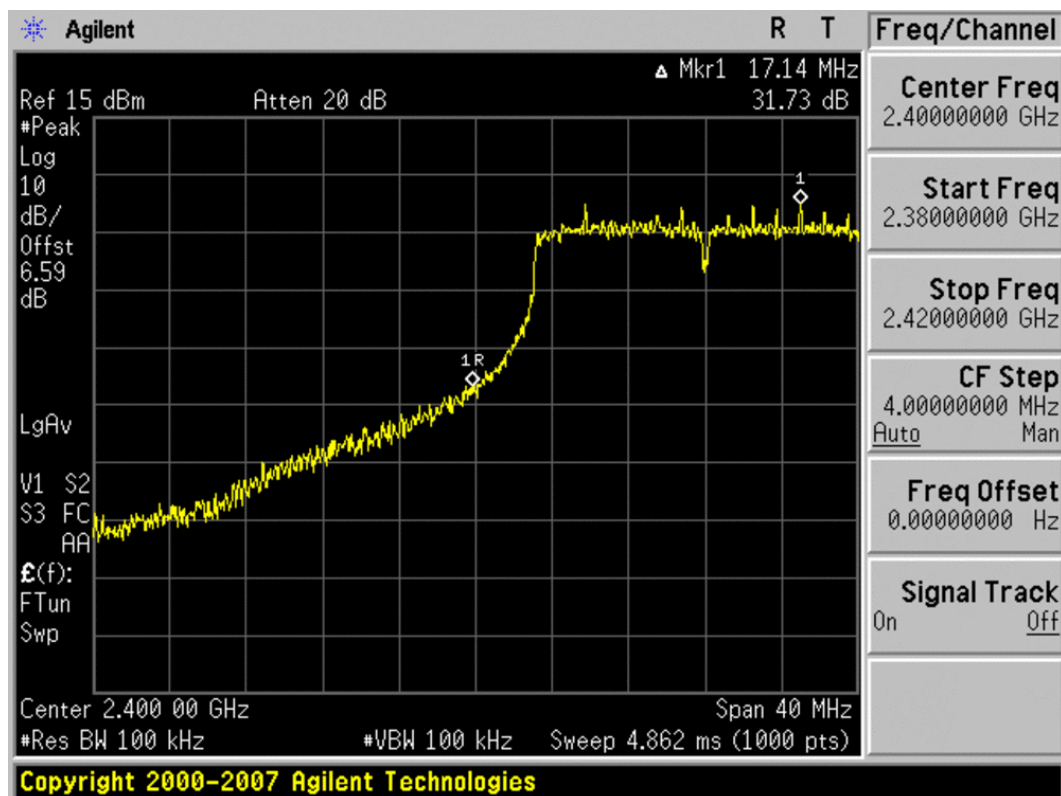


Plot 6-33. Band Edge Plot (802.11g- Ch. 1)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 34 of 65                   |

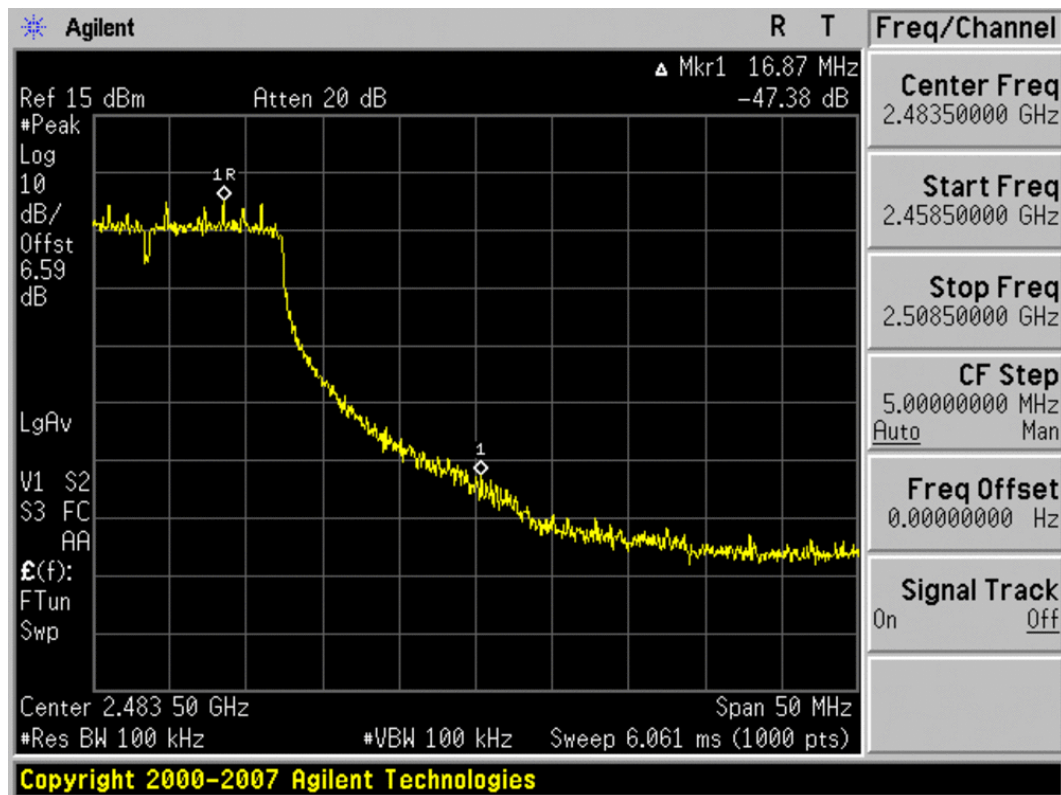


Plot 6-34. Band Edge Plot (802.11g – Ch. 11)

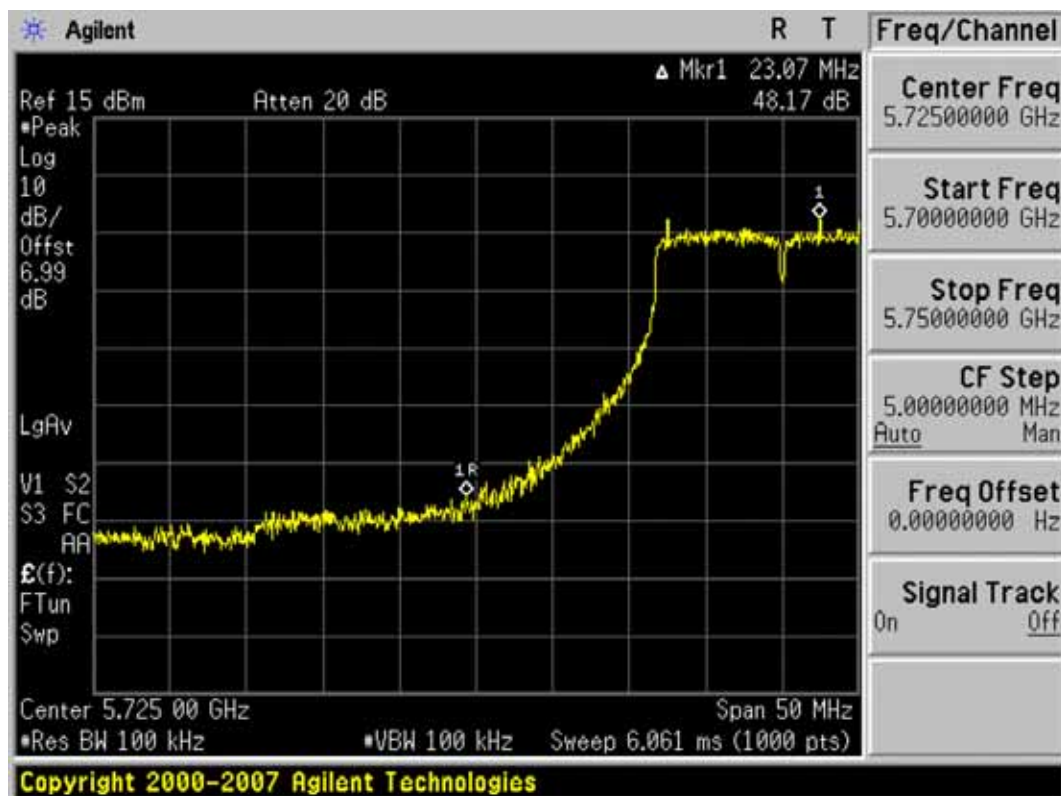


Plot 6-35. Band Edge Plot (802.11n (2.4GHz) – Ch. 1)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 35 of 65                   |

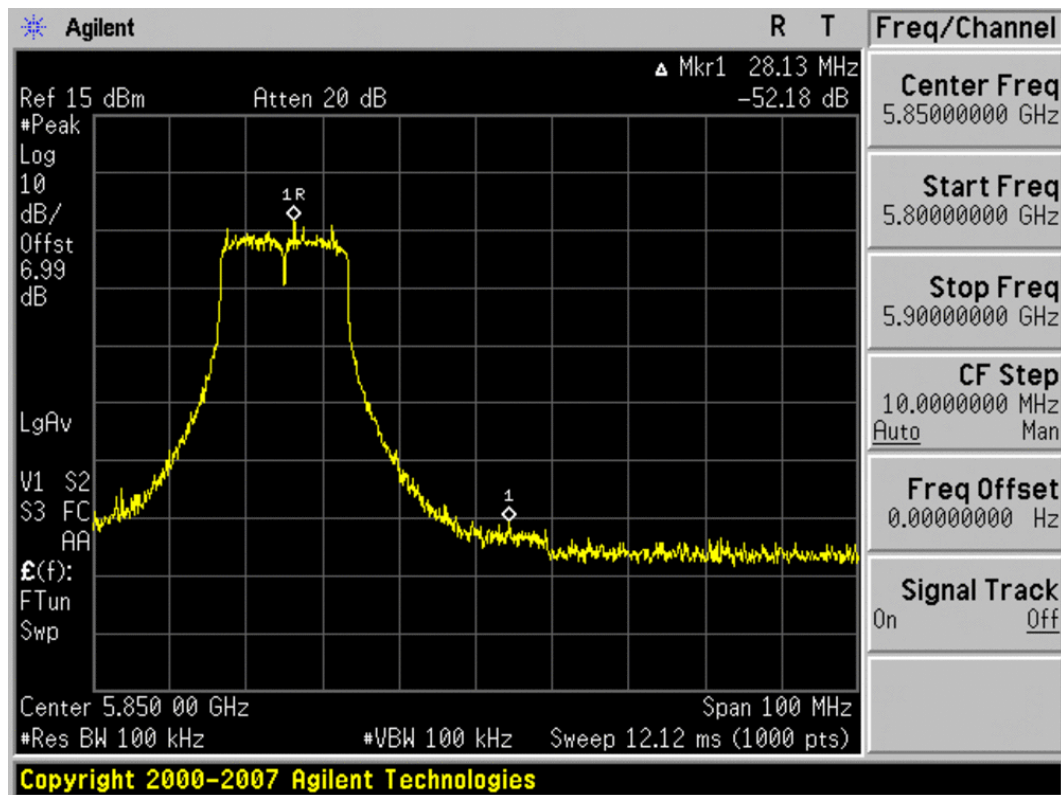


Plot 6-36. Band Edge Plot (802.11n (2.4GHz) – Ch. 11)

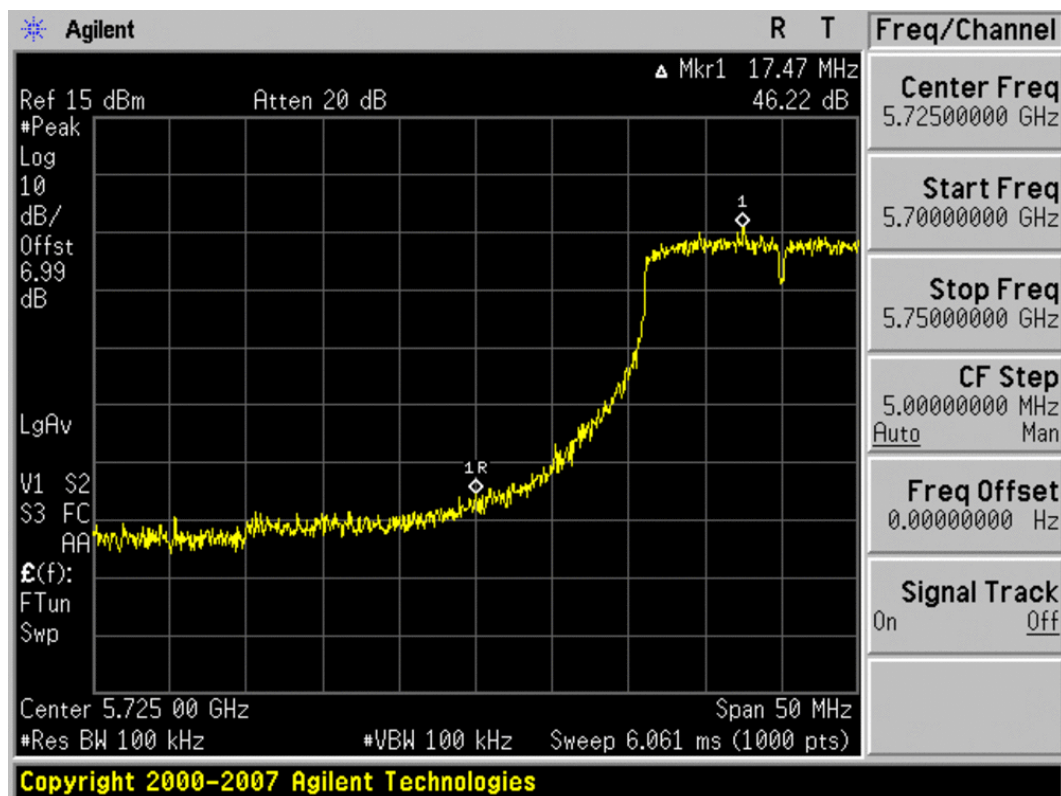


Plot 6-37. Band Edge Plot (802.11a – Ch. 149)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 36 of 65                   |

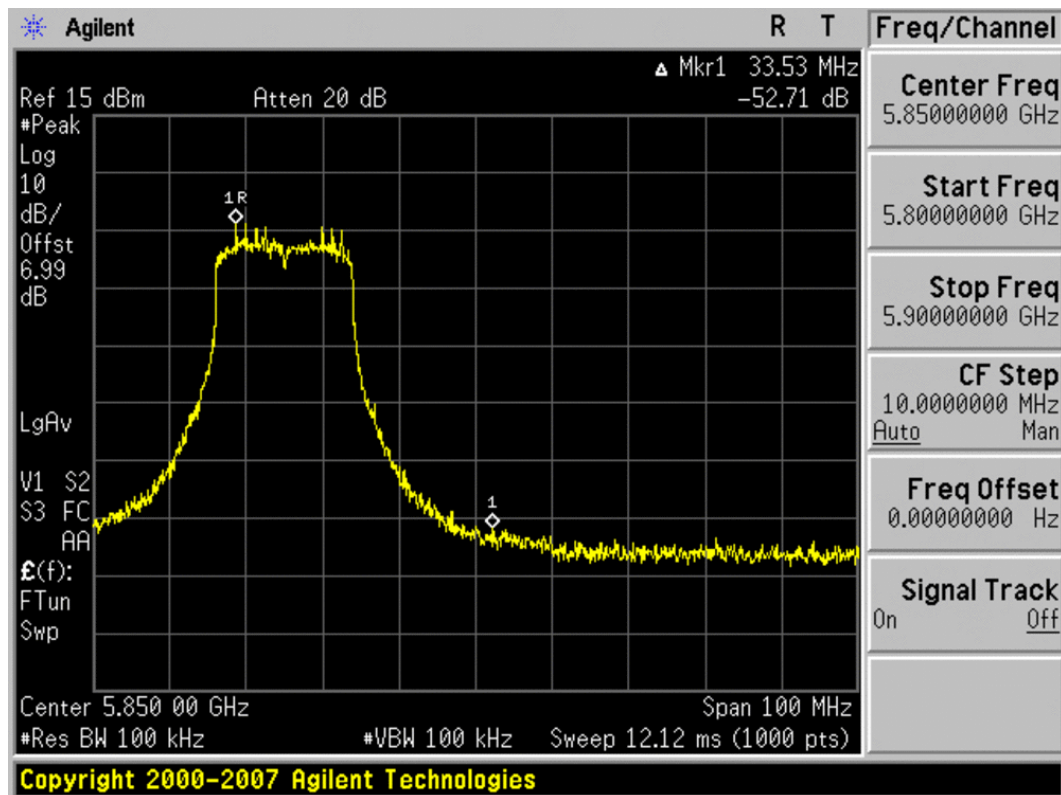


Plot 6-38. Band Edge Plot (802.11a – Ch. 165)



Plot 6-39. Band Edge Plot (802.11n (5.8GHz) – Ch. 149)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 37 of 65                   |



Plot 6-40. Band Edge Plot (802.11n (5.8GHz) – Ch. 165)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 38 of 65                   |

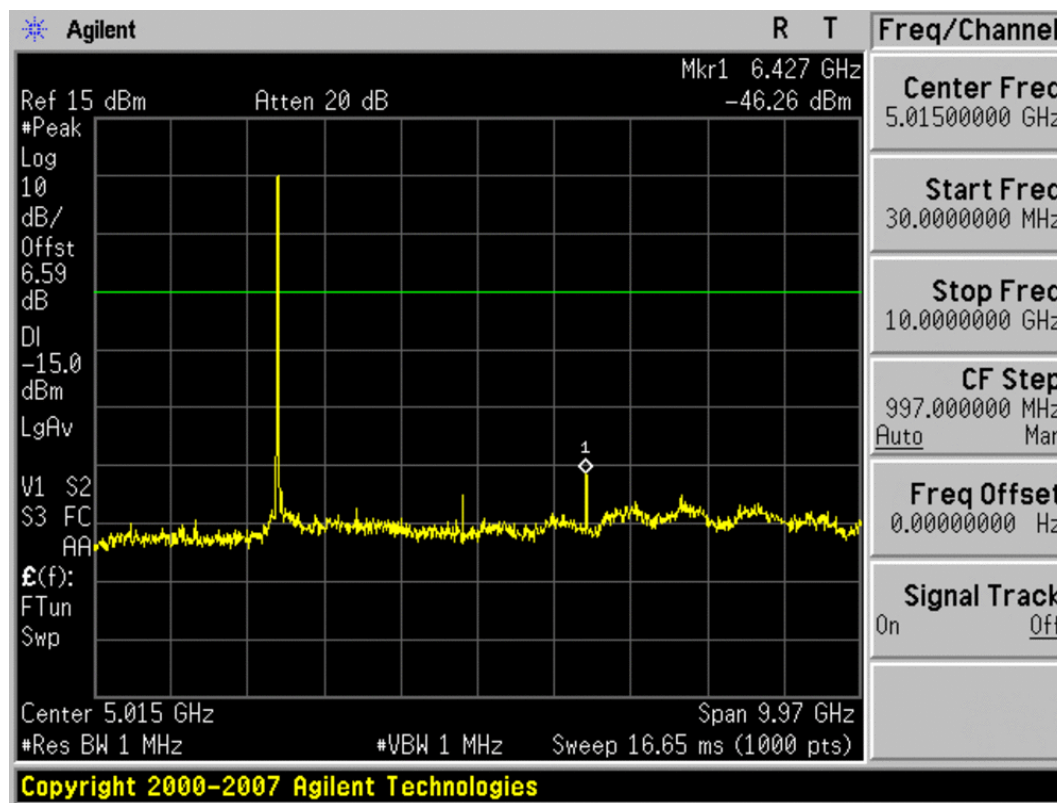
## 6.9 Conducted Spurious Emissions

### §15.247(d); RSS-210 [A8.5]

For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for “b”, “g”, “a”, and “n” modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in “b” mode at 1 Mbps and are shown in the plots below. The worst case spurious emissions for the 5.8GHz band were found while transmitting in “a” mode at 6 Mbps and are shown in the plots below.

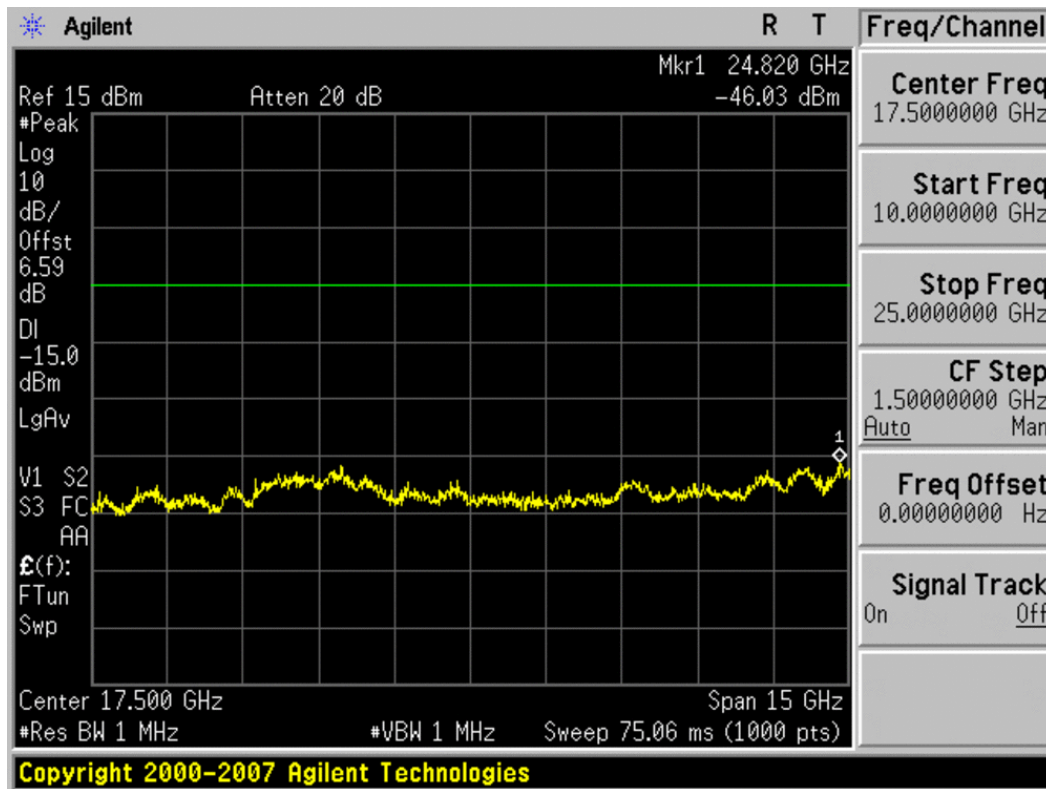
The display line shown in the following plots denotes the limit at 30dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 30dB below the level of the fundamental in a 1MHz bandwidth.

For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present. Cable losses at these frequencies were also taken into account and it was determined that all emissions were compliant.

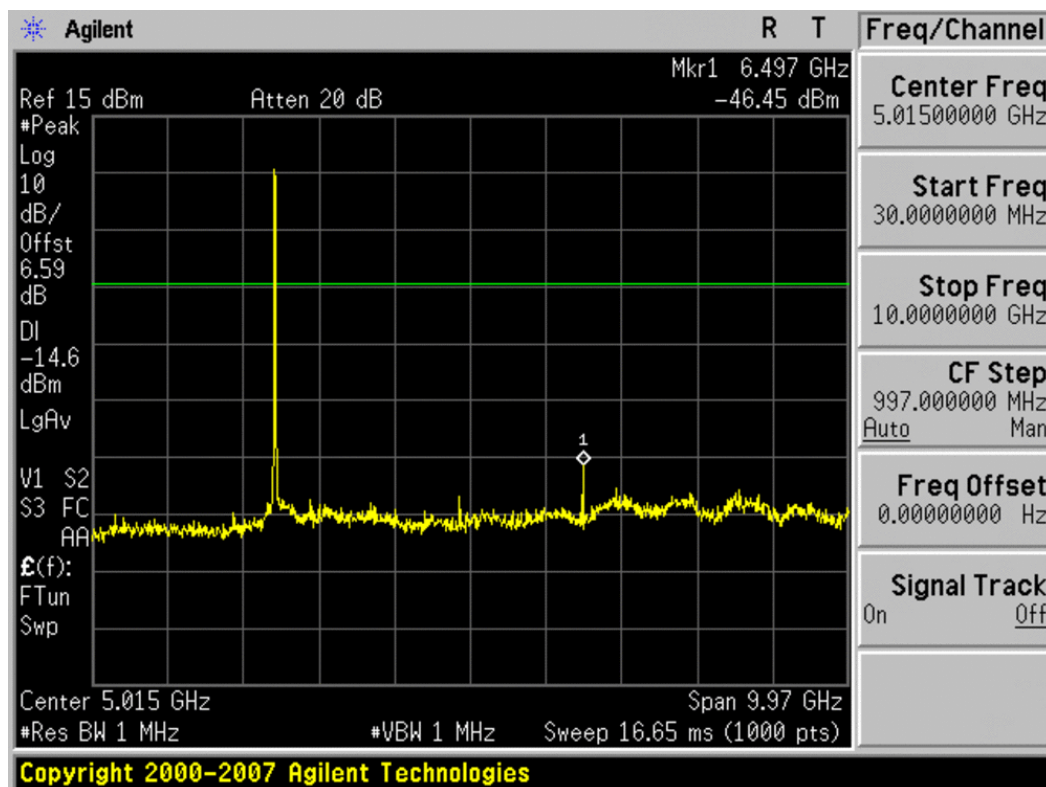


Plot 6-41. Conducted Spurious Plot (802.11b – Ch. 1)

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 39 of 65                   |

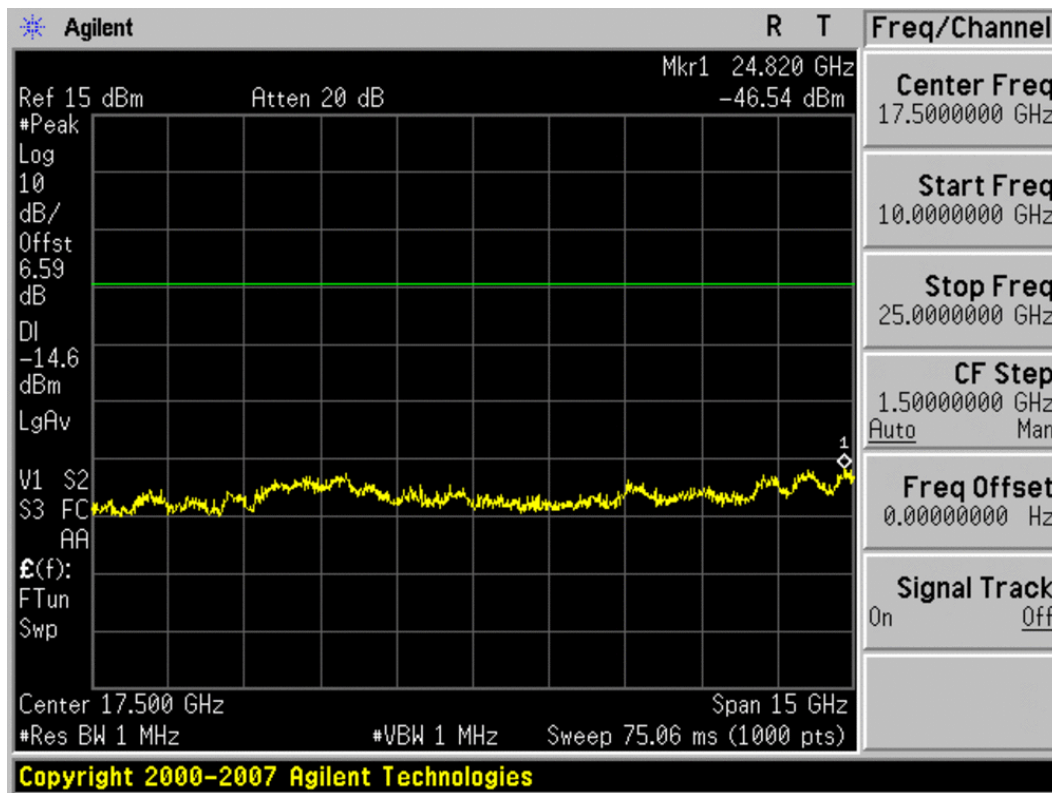


Plot 6-42. Conducted Spurious Plot (802.11b – Ch. 1)

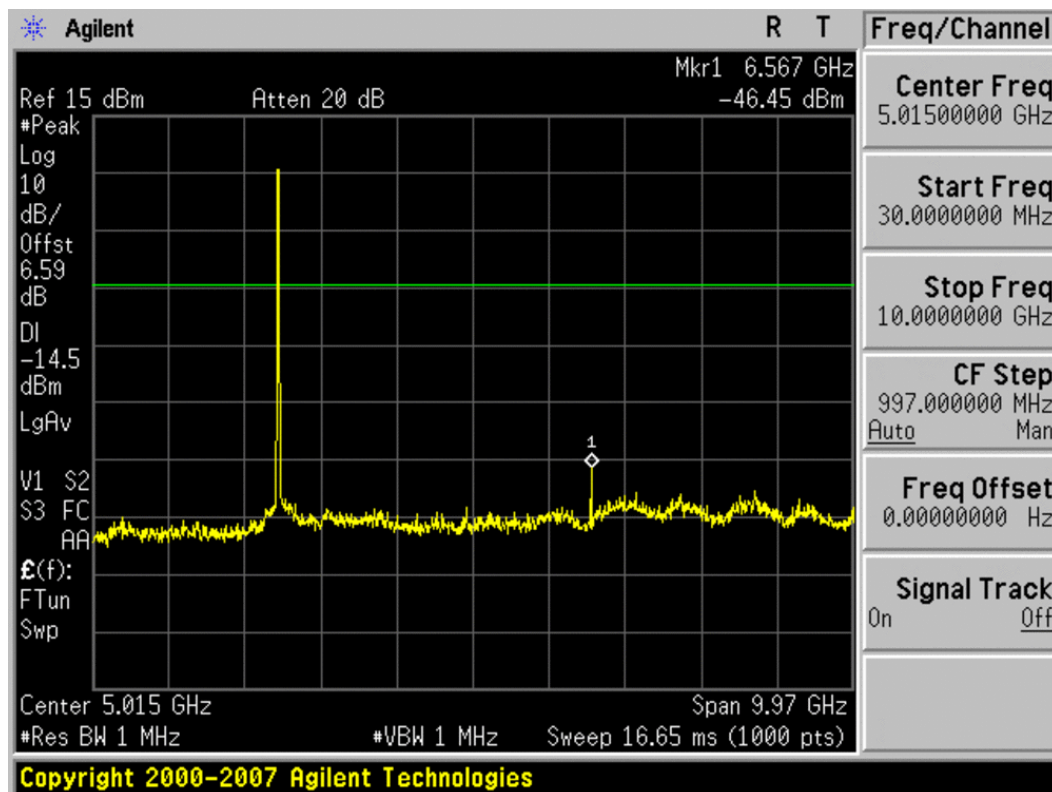


Plot 6-43. Conducted Spurious Plot (802.11b – Ch. 6)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011         | EUT Type:<br>Portable Tablet Computer                              |                | Page 40 of 65                   |

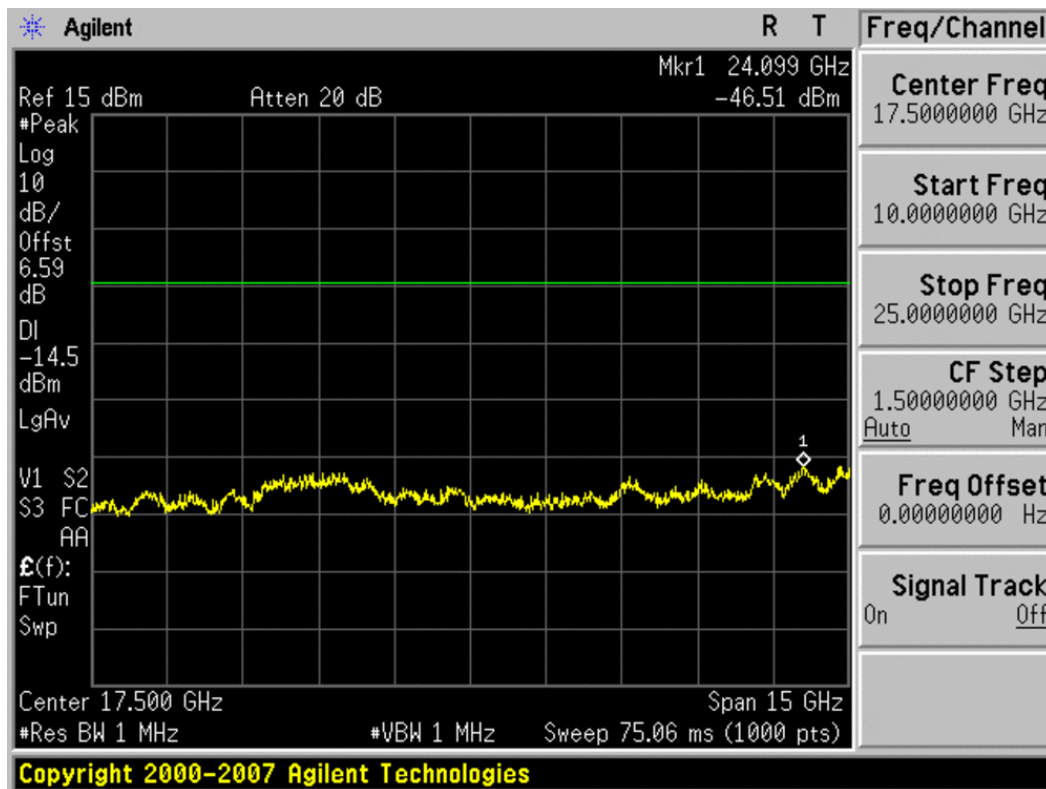


Plot 6-44. Conducted Spurious Plot (802.11b – Ch. 6)

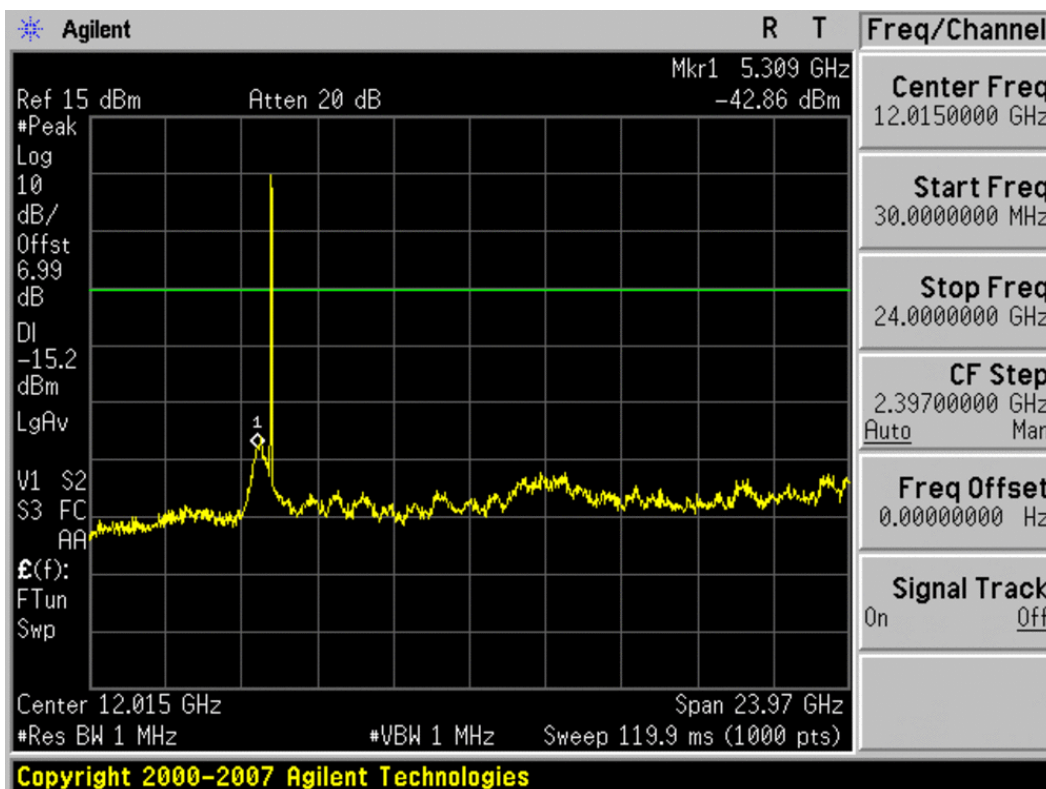


Plot 6-45. Conducted Spurious Plot (802.11b – Ch. 11)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LGTN8000                   | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Reviewed by:<br>Quality Manager |
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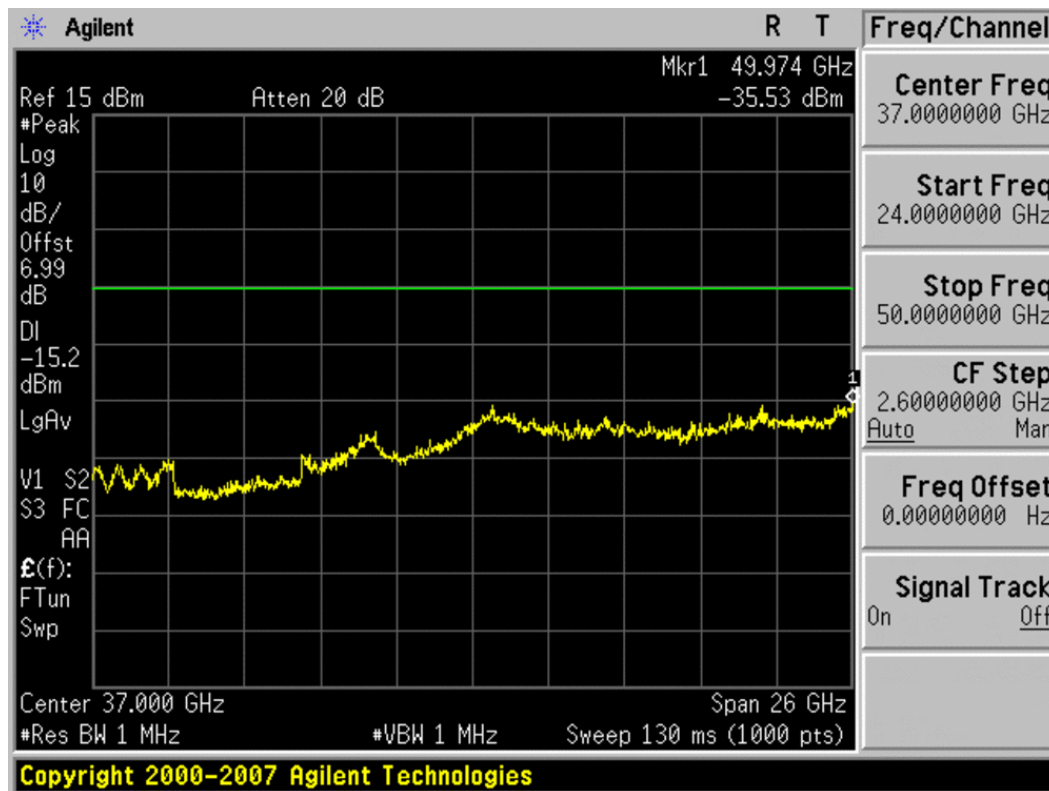


Plot 6-46. Conducted Spurious Plot (802.11b – Ch. 11)

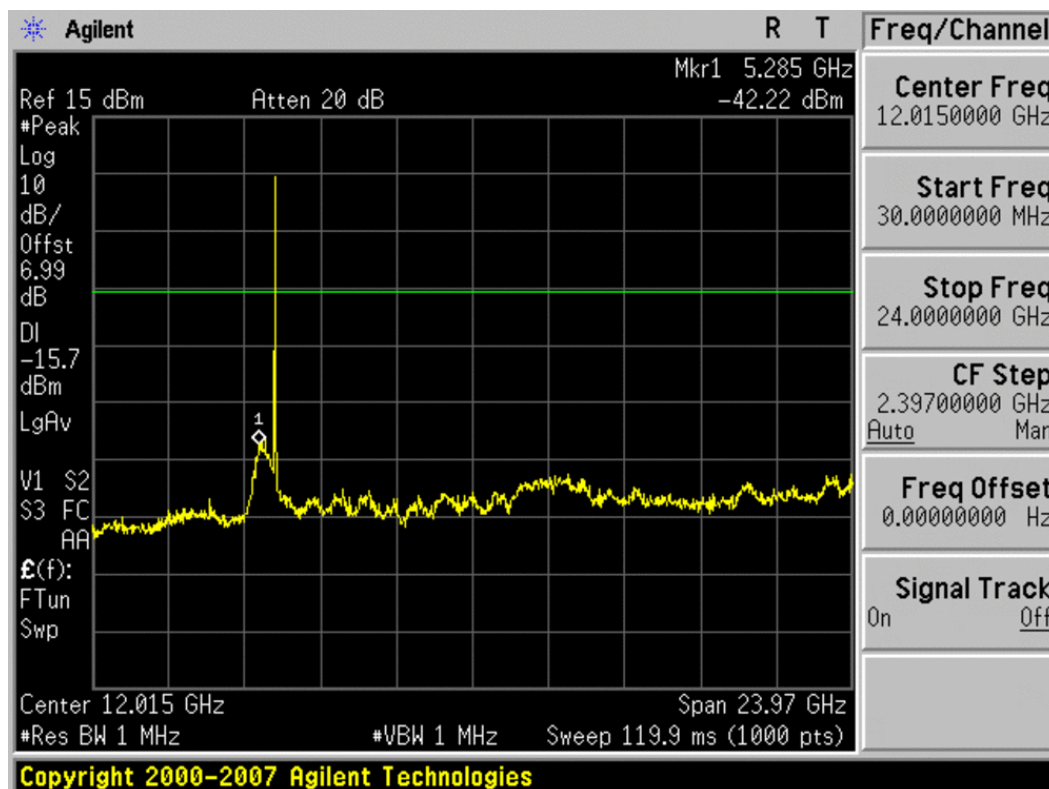


Plot 6-47. Conducted Spurious Plot (802.11a – Ch. 149)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
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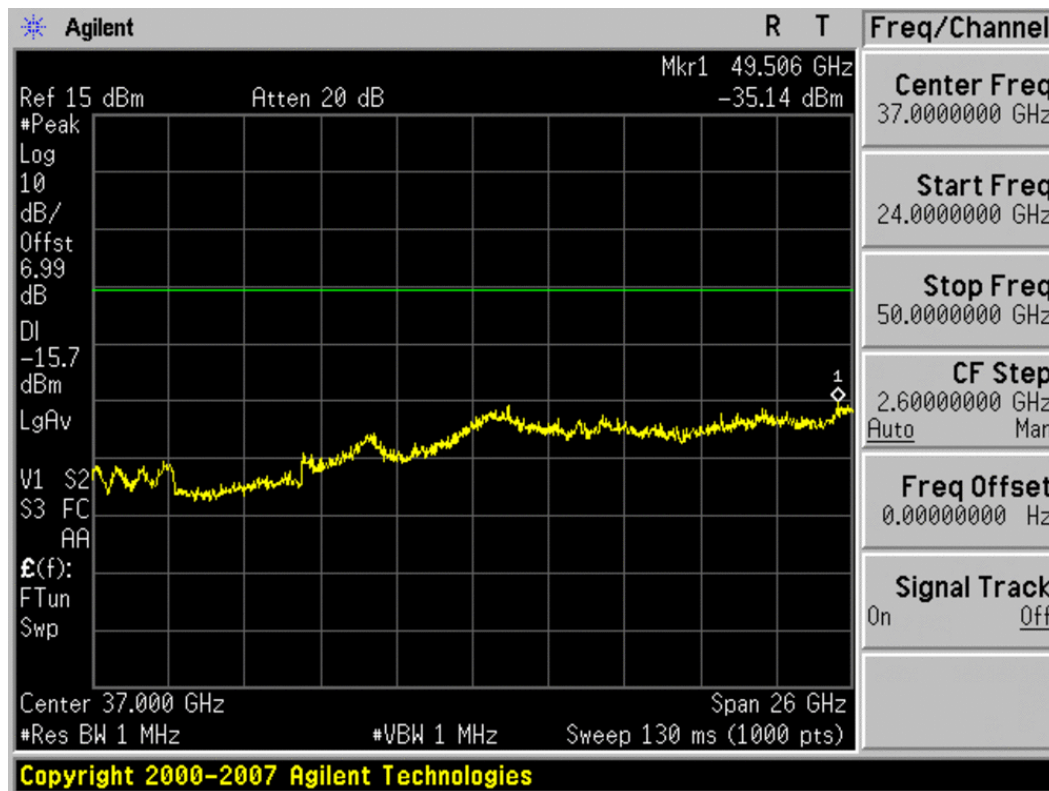


Plot 6-48. Conducted Spurious Plot (802.11a – Ch. 149)

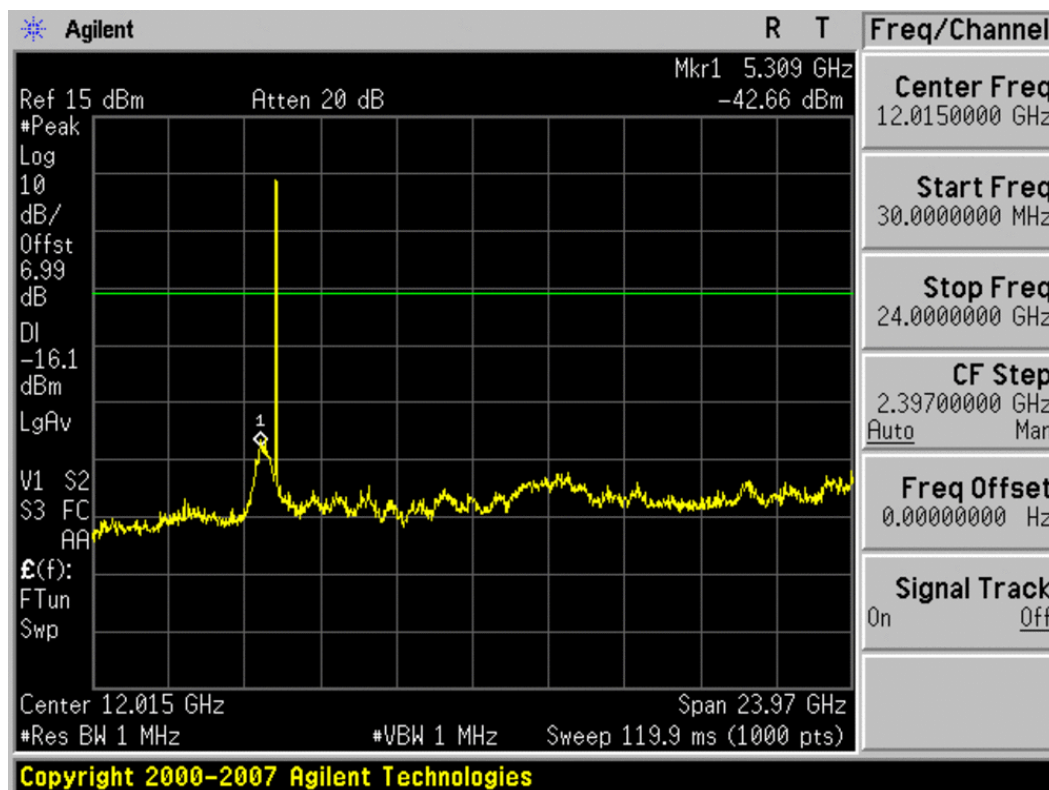


Plot 6-49. Conducted Spurious Plot (802.11a – Ch. 157)

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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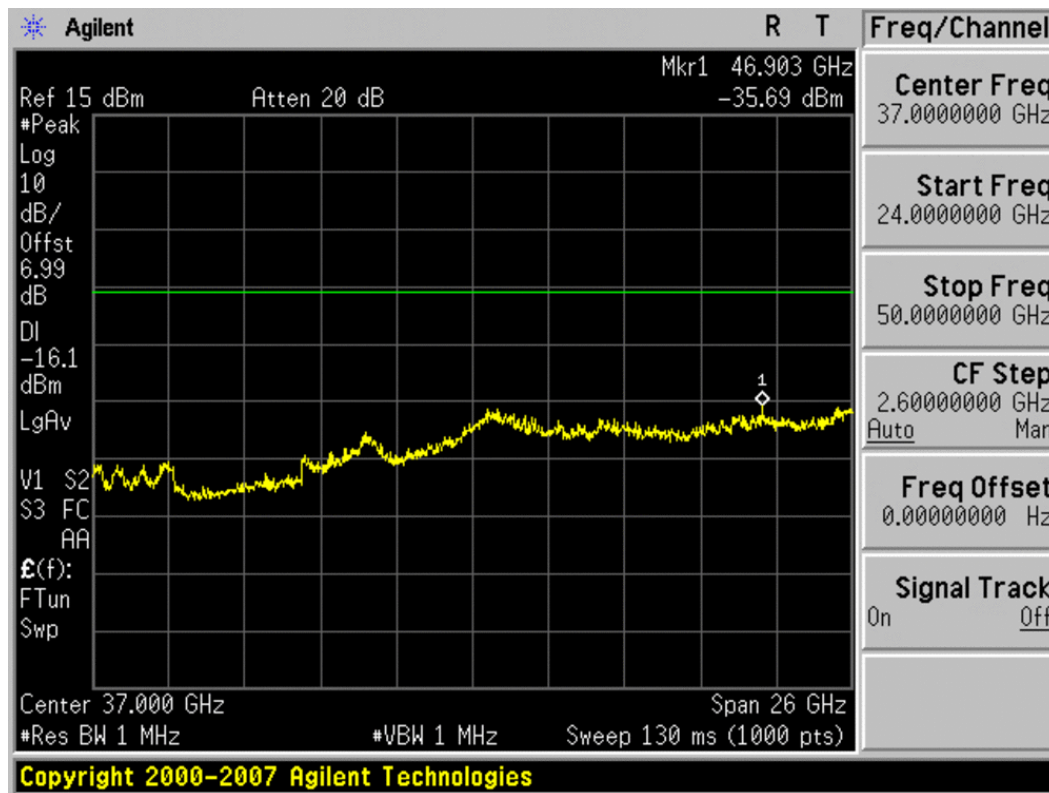


Plot 6-50. Conducted Spurious Plot (802.11a – Ch. 157)



Plot 6-51. Conducted Spurious Plot (802.11a – Ch. 165)

|                                      |                                               |                                                                    |                |                                 |
|--------------------------------------|-----------------------------------------------|--------------------------------------------------------------------|----------------|---------------------------------|
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Plot 6-52. Conducted Spurious Plot (802.11a – Ch. 165)

|                                      |                                                                                     |                                                                 |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                           |                                                                                       | Page 45 of 65                   |

## 6.10 Radiated Spurious Emission Measurements

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

The EUT was tested from 9kHz up to the tenth harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average measurements were taken using RBW = 1MHz, VBW = 10Hz, and linearly polarized horn antennas. Peak measurements were taken using RBW = VBW = 1MHz. All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 6-9 per Section 15.209.

All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

| Frequency         | Field Strength<br>[μV/m] | Measured Distance<br>[Meters] |
|-------------------|--------------------------|-------------------------------|
| 0.009 – 0.490 MHz | 2400/F (kHz)             | 300                           |
| 0.490 – 1.705 MHz | 24000/F (kHz)            | 30                            |
| 1.705 – 30.00 MHz | 30                       | 30                            |
| 30.00 – 88.00 MHz | 100                      | 3                             |
| 88.00 – 216.0 MHz | 150                      | 3                             |
| 216.0 – 960.0 MHz | 200                      | 3                             |
| Above 960.0 MHz   | 500                      | 3                             |

**Table 6-9. Radiated Limits**

### Sample Calculation

- o Field Strength Level  $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB]}$

### Notes:

- o AFCL = Antenna Factor  $_{[dB]} + \text{Cable Loss}_{[dB]}$

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
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| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 46 of 65                   |

## Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Mode: 802.11b

Transfer Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

Channel: 01

| Frequency [MHz] | Analyzer Level [dBm] | Detector | Pol. [H/V] | AFCL [dB] | Field Strength [dB $\mu$ V/m] | Limit [dB $\mu$ V/m] | Margin [dB] |
|-----------------|----------------------|----------|------------|-----------|-------------------------------|----------------------|-------------|
| 4824.00         | -97.89               | Avg      | H          | 39.2      | 48.34                         | 53.98                | -5.64       |
| 4824.00         | -92.72               | Peak     | H          | 39.2      | 53.51                         | 73.98                | -20.47      |
| 12060.00        | -135.00              | Avg      | H          | 51.8      | 23.76                         | 53.98                | -30.22      |
| 12060.00        | -125.00              | Peak     | H          | 51.8      | 33.76                         | 73.98                | -40.22      |

**Table 6-10. Radiated Measurements @ 3 meters**

### NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
2. Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500  $\mu$ V/m (54dB $\mu$ /m) at 3 meters radiated.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
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## Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Mode: 802.11b

Transfer Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2437MHz

Channel: 06

| Frequency [MHz] | Analyzer Level [dBm] | Detector | Pol. [H/V] | AFCL [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------------------|----------|------------|-----------|-------------------------|----------------|-------------|
| 4874.00         | -100.51              | Avg      | H          | 39.28     | 45.77                   | 53.98          | -8.21       |
| 4874.00         | -94.42               | Peak     | H          | 39.28     | 51.86                   | 73.98          | -22.12      |
| 7311.00         | -135.00              | Avg      | H          | 42.36     | 14.36                   | 53.98          | -39.62      |
| 7311.00         | -125.00              | Peak     | H          | 42.36     | 24.36                   | 73.98          | -49.62      |
| 12185.00        | -135.00              | Avg      | H          | 52.21     | 24.21                   | 53.98          | -29.77      |
| 12185.00        | -125.00              | Peak     | H          | 52.21     | 34.21                   | 73.98          | -39.77      |

**Table 6-11. Radiated Measurements @ 3 meters**

### NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
2. Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
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## Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Mode: 802.11b

Transfer Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11

| Frequency [MHz] | Analyzer Level [dBm] | Detector | Pol. [H/V] | AFCL [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------------------|----------|------------|-----------|-------------------------|----------------|-------------|
| 4924.00         | -104.05              | Avg      | H          | 39.29     | 42.23                   | 53.98          | -11.75      |
| 4924.00         | -97.45               | Peak     | H          | 39.29     | 48.83                   | 73.98          | -25.15      |
| 7386.00         | -135.00              | Avg      | H          | 42.47     | 14.47                   | 53.98          | -39.51      |
| 7386.00         | -125.00              | Peak     | H          | 42.47     | 24.47                   | 73.98          | -49.51      |
| 12310.00        | -135.00              | Avg      | H          | 52.60     | 24.60                   | 53.98          | -29.38      |
| 12310.00        | -125.00              | Peak     | H          | 52.60     | 34.60                   | 73.98          | -39.38      |

**Table 6-12. Radiated Measurements @ 3 meters**

### NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
2. Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
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## Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Mode: 802.11a

Transfer Rate: 6 Mbps

Distance of Measurements: 1 Meter

Operating Frequency: 5745MHz

Channel: 149

| Frequency [MHz] | Analyzer Level [dBm] | Detector | Pol. [H/V] | AFCL [dB] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------------------|----------|------------|-----------|---------------------------------|-------------------------|----------------|-------------|
| 11490.00        | -108.38              | Avg      | H          | 53.77     | -9.54                           | 42.8                    | 53.98          | -11.13      |
| 11490.00        | -97.27               | Peak     | H          | 53.77     | -9.54                           | 54.0                    | 73.98          | -20.02      |
| 22980.00        | -135.00              | Avg      | H          | 71.11     | 0.00                            | 43.1                    | 53.98          | -10.87      |
| 22980.00        | -125.00              | Peak     | H          | 71.11     | 0.00                            | 53.1                    | 73.98          | -20.87      |

**Table 6-13. Radiated Measurements @ 1 meter**

### NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
2. Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
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## Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Mode: 802.11a

Transfer Rate: 6 Mbps

Distance of Measurements: 1 Meter

Operating Frequency: 5785MHz

Channel: 157

| Frequency [MHz] | Analyzer Level [dBm] | Detector | Pol. [H/V] | AFCL [dB] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------------------|----------|------------|-----------|---------------------------------|-------------------------|----------------|-------------|
| 11570.00        | -108.85              | Avg      | H          | 53.80     | -9.54                           | 42.4                    | 53.98          | -11.57      |
| 11570.00        | -97.50               | Peak     | H          | 53.80     | -9.54                           | 53.8                    | 73.98          | -20.22      |

**Table 6-14. Radiated Measurements @ 1 meter**

### NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
2. Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated.

|                                      |                                                                                     |                                                                 |                                                                                       |                                 |
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## Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Mode: 802.11a

Transfer Rate: 6 Mbps

Distance of Measurements: 1 Meter

Operating Frequency: 5825MHz

Channel: 165

| Frequency [MHz] | Analyzer Level [dBm] | Detector | Pol. [H/V] | AFCL [dB] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------------------|----------|------------|-----------|---------------------------------|-------------------------|----------------|-------------|
| 11650.00        | -107.83              | Avg      | H          | 53.98     | -9.54                           | 43.6                    | 53.98          | -10.37      |
| 11650.00        | -96.82               | Peak     | H          | 53.98     | -9.54                           | 54.6                    | 73.98          | -19.36      |

**Table 6-15. Radiated Measurements @ 1 meter**

### NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
2. Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
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## 6.11 Radiated Restricted Band Edge Measurements

§15.205 / §15.209; RSS-210 [A8.5]

Mode: 802.11g

Transfer Rate: 6Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

Channel: 1

| Frequency [MHz] | Analyzer Level [dBm] | Detector | Pol. [H/V] | AFCL [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------------------|----------|------------|-----------|-------------------------|----------------|-------------|
| 2384.87         | -103.44              | Avg      | H          | 35.42     | 38.98                   | 53.98          | -15.00      |
| 2384.87         | -84.14               | Peak     | H          | 35.42     | 58.28                   | 73.98          | -15.70      |
| 2389.10         | -100.13              | Avg      | H          | 35.46     | 42.33                   | 53.98          | -11.65      |
| 2389.10         | -82.74               | Peak     | H          | 35.46     | 59.72                   | 73.98          | -14.26      |
| 2390.00         | -99.11               | Avg      | H          | 35.47     | 43.36                   | 53.98          | -10.62      |
| 2390.00         | -82.72               | Peak     | H          | 35.47     | 59.75                   | 73.98          | -14.23      |

**Table 6-16. Radiated Restricted Band Measurements at 3-meters**

### NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
2. Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
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## Radiated Restricted Band Edge Measurements (Cont'd)

§15.205 / §15.209; RSS-210 [A8.5]

Mode: 802.11g

Transfer Rate: 6Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11

| Frequency [MHz] | Analyzer Level [dBm] | Detector | Pol. [H/V] | AFCL [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------------------|----------|------------|-----------|-------------------------|----------------|-------------|
| 2483.50         | -93.28               | Avg      | H          | 36.39     | 50.11                   | 53.98          | -3.87       |
| 2483.50         | -77.06               | Peak     | H          | 36.39     | 66.33                   | 73.98          | -7.65       |
| 2484.24         | -94.07               | Avg      | H          | 36.39     | 49.32                   | 53.98          | -4.66       |
| 2484.24         | -74.51               | Peak     | H          | 36.39     | 68.88                   | 73.98          | -5.10       |
| 2484.45         | -94.34               | Avg      | H          | 36.40     | 49.06                   | 53.98          | -4.92       |
| 2484.45         | -75.42               | Peak     | H          | 36.40     | 67.98                   | 73.98          | -6.00       |

**Table 6-17. Radiated Restricted Band Measurements at 3-meters**

### NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 are below the limit shown in Table 6-9.
2. Average measurements > 1GHz are performed using RBW = 1MHz and VBW = 10Hz. Peak measurements > 1GHz are performed using RBW = VBW = 1MHz.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10<sup>th</sup> harmonic and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 54 of 65                   |

## 6.12 Line-Conducted Test Data

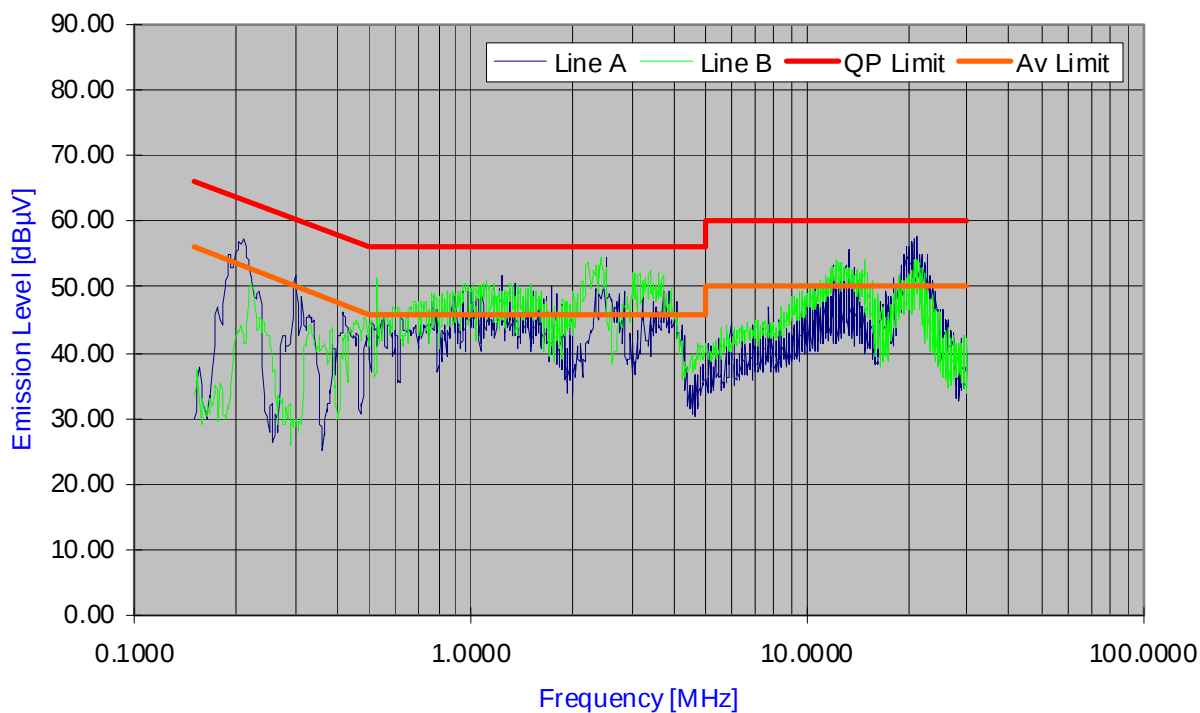
§15.207; RSS-Gen [7.2.2]

# PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics, Co. Ltd.  
 Model Number : GT-N8000  
 FCC ID Code : A3LGTN8000  
 Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz  
 Tested Date : 12/14/2011  
 Note : Tested with 802.11b ON

### Conducted Emission Measurement



Ver1.1 ©PCTEST 2006.08

Plot 6-53. Line Conducted Plot with 802.11b

#### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 1Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 55 of 65                   |

## Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

| No. | Line | Frequency<br>[MHz] | Factor<br>[dB] | QP<br>[dBμV] | Limit<br>[dBμV] | Margin<br>[dB] | Average<br>[dBμV] | Limit<br>[dBμV] | Margin<br>[dB] |
|-----|------|--------------------|----------------|--------------|-----------------|----------------|-------------------|-----------------|----------------|
| 1   | A    | 1.233              | 7.07           | 40.90        | 56.00           | -15.10         | 25.95             | 46.00           | -20.05         |
| 2   | A    | 2.507              | 7.21           | 45.54        | 56.00           | -10.46         | 32.37             | 46.00           | -13.63         |
| 3   | A    | 13.287             | 7.92           | 41.96        | 60.00           | -18.04         | 31.91             | 50.00           | -18.09         |
| 4   | A    | 19.856             | 8.46           | 47.81        | 60.00           | -12.19         | 29.36             | 50.00           | -20.64         |
| 5   | A    | 20.321             | 8.51           | 47.54        | 60.00           | -12.46         | 29.82             | 50.00           | -20.18         |
| 6   | A    | 20.483             | 8.53           | 48.00        | 60.00           | -12.00         | 30.06             | 50.00           | -19.94         |
| 7   | A    | 20.731             | 8.57           | 47.53        | 60.00           | -12.47         | 30.33             | 50.00           | -19.67         |
| 8   | A    | 20.844             | 8.58           | 47.78        | 60.00           | -12.22         | 30.14             | 50.00           | -19.86         |
| 9   | A    | 21.091             | 8.61           | 47.11        | 60.00           | -12.89         | 30.46             | 50.00           | -19.54         |
| 10  | A    | 21.267             | 8.63           | 47.25        | 60.00           | -12.75         | 30.22             | 50.00           | -19.78         |
| 11  | B    | 0.517              | 6.97           | 36.41        | 56.00           | -19.59         | 23.74             | 46.00           | -22.26         |
| 12  | B    | 1.139              | 7.06           | 44.49        | 56.00           | -11.51         | 28.70             | 46.00           | -17.30         |
| 13  | B    | 1.181              | 7.07           | 42.81        | 56.00           | -13.19         | 28.20             | 46.00           | -17.80         |
| 14  | B    | 1.499              | 7.10           | 41.87        | 56.00           | -14.13         | 26.48             | 46.00           | -19.52         |
| 15  | B    | 2.190              | 7.18           | 46.54        | 56.00           | -9.46          | 34.25             | 46.00           | -11.75         |
| 16  | B    | 2.196              | 7.18           | 46.26        | 56.00           | -9.74          | 33.82             | 46.00           | -12.18         |
| 17  | B    | 2.401              | 7.21           | 48.12        | 56.00           | -7.88          | 34.52             | 46.00           | -11.48         |
| 18  | B    | 3.106              | 7.28           | 44.50        | 56.00           | -11.50         | 34.05             | 46.00           | -11.95         |
| 19  | B    | 3.207              | 7.29           | 44.62        | 56.00           | -11.38         | 34.55             | 46.00           | -11.45         |
| 20  | B    | 3.381              | 7.31           | 45.83        | 56.00           | -10.17         | 34.96             | 46.00           | -11.04         |

Table 6-18. Line Conducted Data with 802.11b

### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 1Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 56 of 65                   |

# Line-Conducted Test Data (Cont'd)

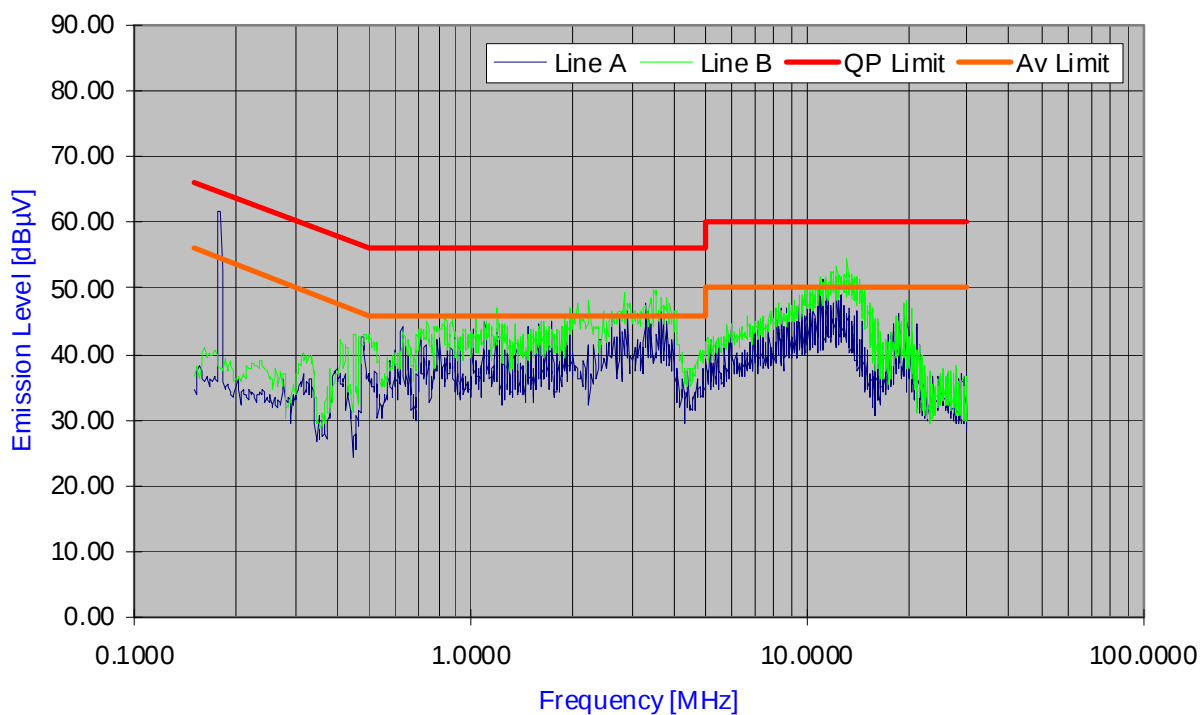
§15.207; RSS-Gen [7.2.2]

## PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics, Co. Ltd.  
 Model Number : GT-N8000  
 FCC ID Code : A3LGTN8000  
 Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz  
 Tested Date : 12/14/2011  
 Note : Tested with 802.11g ON

### Conducted Emission Measurement



Ver1.1 ©PCTEST 2006.08

Plot 6-54. Line Conducted Plot with 802.11g

#### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 57 of 65                   |

## Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

| No. | Line | Frequency<br>[MHz] | Factor<br>[dB] | QP<br>[dBμV] | Limit<br>[dBμV] | Margin<br>[dB] | Average<br>[dBμV] | Limit<br>[dBμV] | Margin<br>[dB] |
|-----|------|--------------------|----------------|--------------|-----------------|----------------|-------------------|-----------------|----------------|
| 1   | A    | 0.166              | 6.86           | 45.11        | 65.16           | -20.05         | 31.24             | 55.16           | -23.92         |
| 2   | A    | 2.655              | 7.23           | 36.09        | 56.00           | -19.91         | 27.03             | 46.00           | -18.97         |
| 3   | A    | 3.330              | 7.29           | 36.29        | 56.00           | -19.71         | 27.70             | 46.00           | -18.30         |
| 4   | A    | 3.685              | 7.32           | 36.68        | 56.00           | -19.32         | 27.72             | 46.00           | -18.28         |
| 5   | A    | 10.779             | 7.65           | 39.48        | 60.00           | -20.52         | 31.30             | 50.00           | -18.70         |
| 6   | A    | 10.885             | 7.66           | 39.61        | 60.00           | -20.39         | 31.32             | 50.00           | -18.68         |
| 7   | A    | 11.148             | 7.68           | 39.98        | 60.00           | -20.02         | 31.48             | 50.00           | -18.52         |
| 8   | A    | 11.548             | 7.73           | 40.23        | 60.00           | -19.77         | 31.43             | 50.00           | -18.57         |
| 9   | A    | 12.258             | 7.81           | 40.66        | 60.00           | -19.34         | 31.51             | 50.00           | -18.49         |
| 10  | A    | 12.725             | 7.86           | 39.69        | 60.00           | -20.31         | 30.96             | 50.00           | -19.04         |
| 11  | B    | 1.193              | 7.07           | 38.72        | 56.00           | -17.28         | 27.35             | 46.00           | -18.65         |
| 12  | B    | 2.092              | 7.16           | 40.44        | 56.00           | -15.56         | 30.32             | 46.00           | -15.68         |
| 13  | B    | 2.301              | 7.19           | 40.89        | 56.00           | -15.11         | 30.14             | 46.00           | -15.86         |
| 14  | B    | 3.478              | 7.32           | 42.18        | 56.00           | -13.82         | 32.06             | 46.00           | -13.94         |
| 15  | B    | 10.862             | 7.68           | 44.85        | 60.00           | -15.15         | 35.69             | 50.00           | -14.31         |
| 16  | B    | 11.927             | 7.81           | 46.25        | 60.00           | -13.75         | 36.42             | 50.00           | -13.58         |
| 17  | B    | 12.258             | 7.85           | 46.65        | 60.00           | -13.35         | 36.75             | 50.00           | -13.25         |
| 18  | B    | 12.987             | 7.93           | 46.18        | 60.00           | -13.82         | 36.91             | 50.00           | -13.09         |
| 19  | B    | 13.201             | 7.95           | 46.75        | 60.00           | -13.25         | 36.41             | 50.00           | -13.59         |
| 20  | B    | 14.407             | 8.08           | 44.96        | 60.00           | -15.04         | 34.08             | 50.00           | -15.92         |

Table 6-19. Line Conducted Data with 802.11g

### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 58 of 65                   |

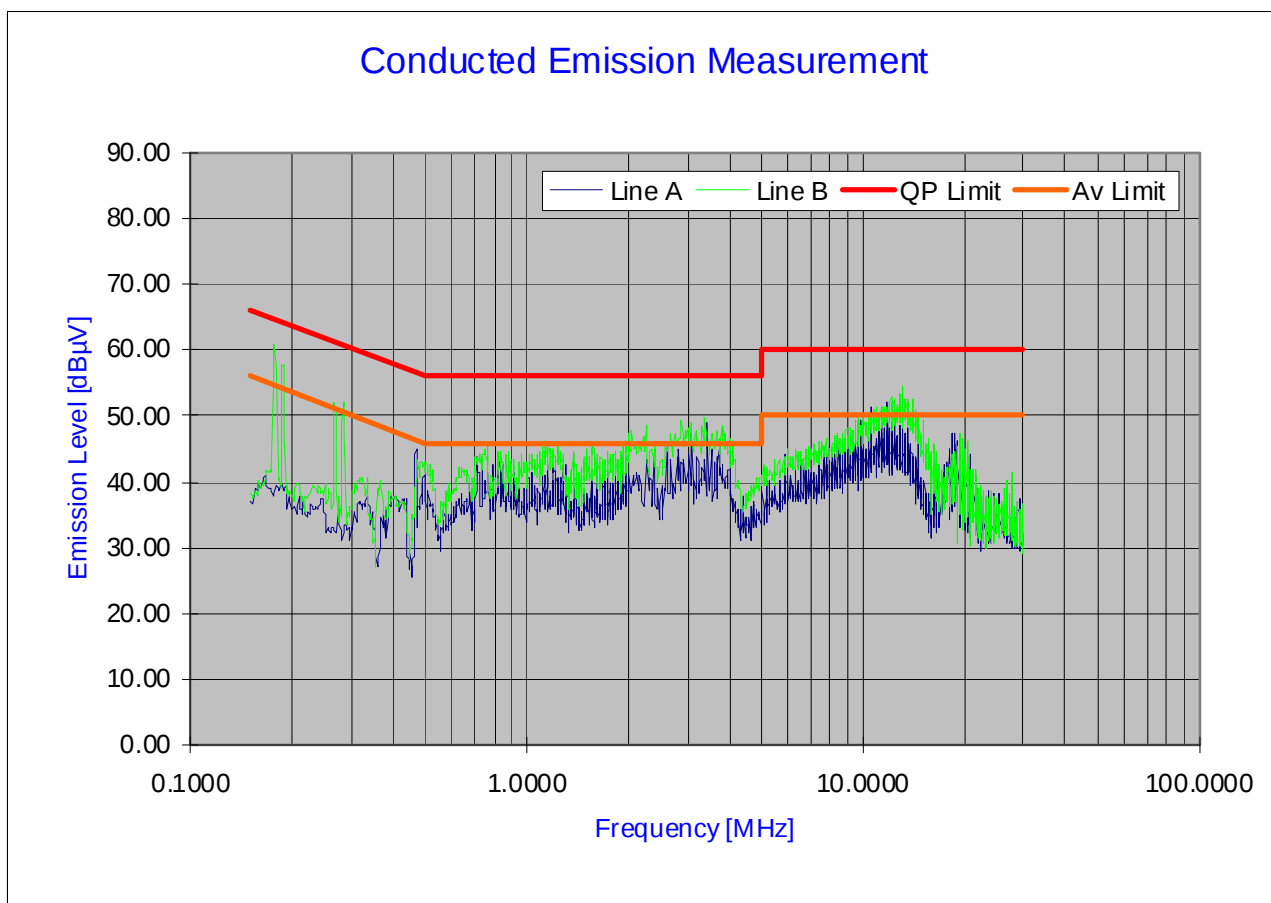
## Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

# PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics, Co. Ltd.  
 Model Number : GT-N8000  
 FCC ID Code : A3LGTN8000  
 Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz  
 Tested Date : 12/14/2011  
 Note : Tested with 2.4GHz 802.11n ON



**Plot 6-55. Line Conducted Plot with 802.11n (2.4GHz)**

### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6.5/7.2Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 59 of 65                   |

## Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

| No. | Line | Frequency<br>[MHz] | Factor<br>[dB] | QP<br>[dBμV] | Limit<br>[dBμV] | Margin<br>[dB] | Average<br>[dBμV] | Limit<br>[dBμV] | Margin<br>[dB] |
|-----|------|--------------------|----------------|--------------|-----------------|----------------|-------------------|-----------------|----------------|
| 1   | A    | 2.696              | 7.23           | 35.22        | 56.00           | -20.78         | 26.80             | 46.00           | -19.20         |
| 2   | A    | 3.023              | 7.27           | 37.01        | 56.00           | -18.99         | 27.59             | 46.00           | -18.41         |
| 3   | A    | 3.373              | 7.30           | 36.69        | 56.00           | -19.31         | 27.53             | 46.00           | -18.47         |
| 4   | A    | 3.768              | 7.33           | 36.08        | 56.00           | -19.92         | 27.56             | 46.00           | -18.44         |
| 5   | A    | 9.779              | 7.60           | 38.09        | 60.00           | -21.91         | 30.24             | 50.00           | -19.76         |
| 6   | A    | 10.473             | 7.63           | 39.13        | 60.00           | -20.87         | 31.13             | 50.00           | -18.87         |
| 7   | A    | 11.307             | 7.70           | 39.89        | 60.00           | -20.11         | 31.60             | 50.00           | -18.40         |
| 8   | A    | 11.824             | 7.76           | 40.29        | 60.00           | -19.71         | 31.66             | 50.00           | -18.34         |
| 9   | A    | 12.971             | 7.88           | 39.82        | 60.00           | -20.18         | 30.86             | 50.00           | -19.14         |
| 10  | A    | 13.126             | 7.90           | 39.49        | 60.00           | -20.51         | 30.92             | 50.00           | -19.08         |
| 11  | B    | 0.160              | 6.85           | 46.36        | 65.44           | -19.08         | 31.91             | 55.44           | -23.53         |
| 12  | B    | 0.174              | 6.86           | 44.79        | 64.77           | -19.98         | 30.24             | 54.77           | -24.53         |
| 13  | B    | 2.873              | 7.26           | 41.89        | 56.00           | -14.11         | 32.07             | 46.00           | -13.93         |
| 14  | B    | 3.033              | 7.28           | 41.66        | 56.00           | -14.34         | 31.98             | 46.00           | -14.02         |
| 15  | B    | 3.308              | 7.30           | 42.01        | 56.00           | -13.99         | 32.17             | 46.00           | -13.83         |
| 16  | B    | 3.391              | 7.31           | 41.87        | 56.00           | -14.13         | 32.41             | 46.00           | -13.59         |
| 17  | B    | 3.791              | 7.34           | 41.51        | 56.00           | -14.49         | 32.58             | 46.00           | -13.42         |
| 18  | B    | 12.027             | 7.82           | 45.83        | 60.00           | -14.17         | 36.62             | 50.00           | -13.38         |
| 19  | B    | 13.060             | 7.94           | 46.33        | 60.00           | -13.67         | 36.73             | 50.00           | -13.27         |
| 20  | B    | 14.012             | 8.04           | 44.94        | 60.00           | -15.06         | 35.01             | 50.00           | -14.99         |

Table 6-20. Line Conducted Data with 802.11n (2.4GHz)

### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6.5/7.2Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 60 of 65                   |

# Line-Conducted Test Data (Cont'd)

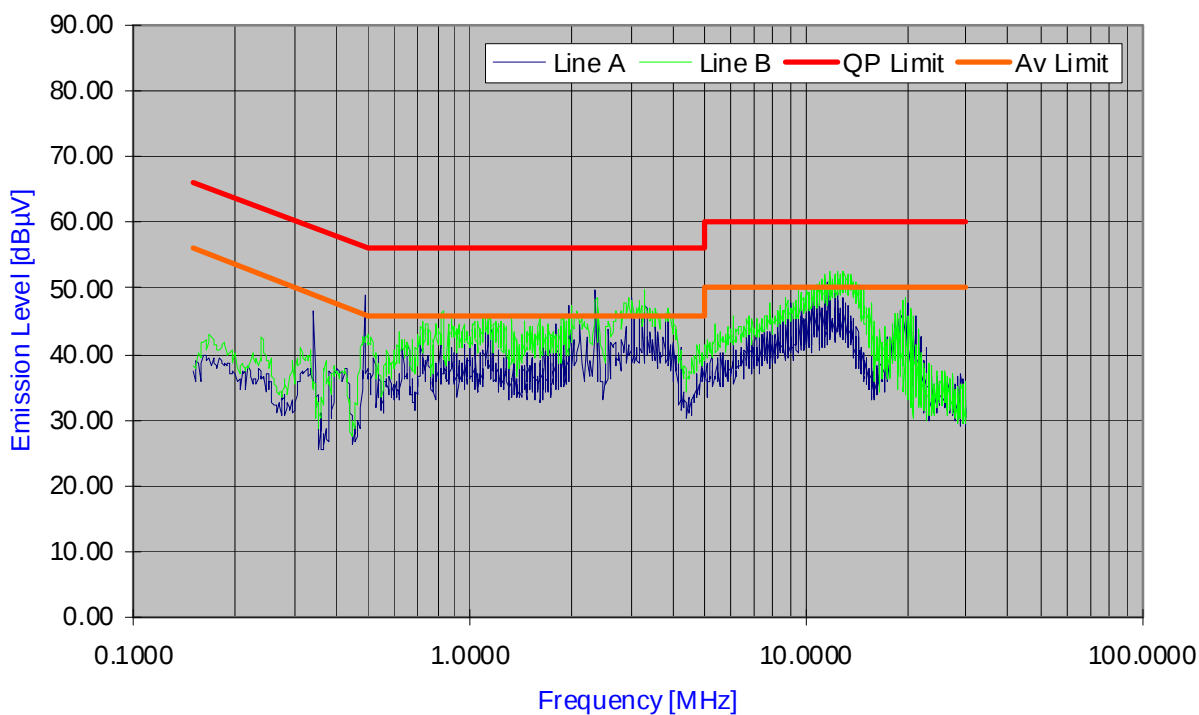
§15.207; RSS-Gen [7.2.2]

## PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics, Co. Ltd.  
 Model Number : GT-N8000  
 FCC ID Code : A3LGTN8000  
 Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz  
 Tested Date : 12/14/2011  
 Note : Tested with 802.11a ON

### Conducted Emission Measurement



Ver.1.1 ©PCTEST 2006.08

Plot 6-56. Line Conducted Plot with 802.11a

#### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 61 of 65                   |

## Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

| No. | Line | Frequency<br>[MHz] | Factor<br>[dB] | QP<br>[dBμV] | Limit<br>[dBμV] | Margin<br>[dB] | Average<br>[dBμV] | Limit<br>[dBμV] | Margin<br>[dB] |
|-----|------|--------------------|----------------|--------------|-----------------|----------------|-------------------|-----------------|----------------|
| 1   | A    | 0.487              | 6.96           | 34.33        | 56.21           | -21.88         | 24.04             | 46.21           | -22.17         |
| 2   | A    | 1.988              | 7.15           | 35.21        | 56.00           | -20.79         | 25.70             | 46.00           | -20.30         |
| 3   | A    | 2.281              | 7.19           | 35.98        | 56.00           | -20.02         | 24.60             | 46.00           | -21.40         |
| 4   | A    | 2.990              | 7.26           | 36.59        | 56.00           | -19.41         | 27.75             | 46.00           | -18.25         |
| 5   | A    | 3.314              | 7.29           | 36.05        | 56.00           | -19.95         | 27.38             | 46.00           | -18.62         |
| 6   | A    | 3.822              | 7.33           | 36.86        | 56.00           | -19.14         | 27.88             | 46.00           | -18.12         |
| 7   | A    | 11.619             | 7.74           | 40.14        | 60.00           | -19.86         | 31.60             | 50.00           | -18.40         |
| 8   | A    | 11.725             | 7.75           | 40.38        | 60.00           | -19.62         | 31.55             | 50.00           | -18.45         |
| 9   | A    | 12.299             | 7.81           | 40.32        | 60.00           | -19.68         | 31.49             | 50.00           | -18.51         |
| 10  | A    | 12.459             | 7.83           | 40.45        | 60.00           | -19.55         | 31.39             | 50.00           | -18.61         |
| 11  | B    | 2.294              | 7.19           | 40.76        | 56.00           | -15.24         | 28.30             | 46.00           | -17.70         |
| 12  | B    | 2.878              | 7.26           | 42.05        | 56.00           | -13.95         | 32.27             | 46.00           | -13.73         |
| 13  | B    | 3.001              | 7.27           | 41.73        | 56.00           | -14.27         | 32.09             | 46.00           | -13.91         |
| 14  | B    | 3.346              | 7.30           | 42.36        | 56.00           | -13.64         | 31.93             | 46.00           | -14.07         |
| 15  | B    | 11.808             | 7.79           | 45.67        | 60.00           | -14.33         | 36.49             | 50.00           | -13.51         |
| 16  | B    | 12.356             | 7.86           | 46.36        | 60.00           | -13.64         | 36.68             | 50.00           | -13.32         |
| 17  | B    | 12.640             | 7.89           | 46.52        | 60.00           | -13.48         | 36.96             | 50.00           | -13.04         |
| 18  | B    | 12.862             | 7.92           | 46.39        | 60.00           | -13.61         | 36.89             | 50.00           | -13.11         |
| 19  | B    | 12.870             | 7.92           | 46.50        | 60.00           | -13.50         | 36.71             | 50.00           | -13.29         |
| 20  | B    | 13.635             | 8.00           | 46.08        | 60.00           | -13.92         | 35.85             | 50.00           | -14.15         |

Table 6-21. Line Conducted Data with 802.11a

### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 62 of 65                   |

## Line-Conducted Test Data (Cont'd)

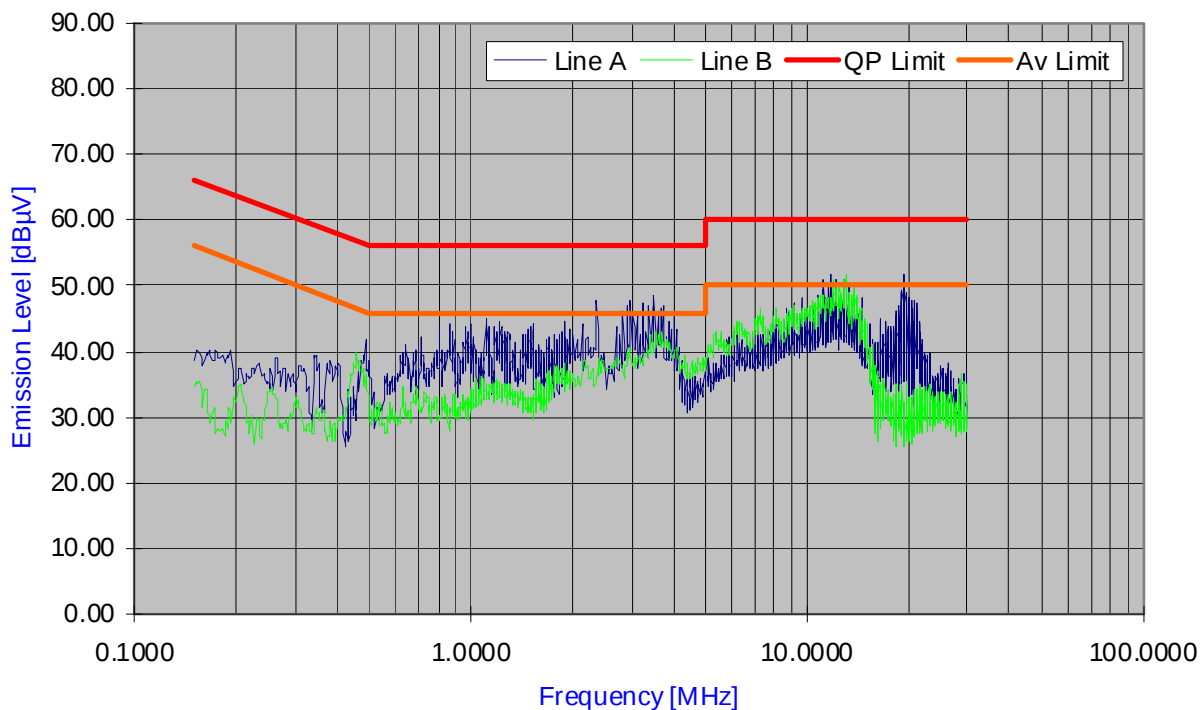
§15.207; RSS-Gen [7.2.2]

# PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics, Co. Ltd.  
 Model Number : GT-N8000  
 FCC ID Code : A3LGTN8000  
 Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz  
 Tested Date : 12/14/2011  
 Note : Tested with 5.8GHz 802.11n ON

### Conducted Emission Measurement



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Plot 6-57. Line Conducted Plot with 802.11n (5.8GHz)

#### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6.5/7.2Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 63 of 65                   |

## Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

| No. | Line | Frequency<br>[MHz] | Factor<br>[dB] | QP<br>[dBμV] | Limit<br>[dBμV] | Margin<br>[dB] | Average<br>[dBμV] | Limit<br>[dBμV] | Margin<br>[dB] |
|-----|------|--------------------|----------------|--------------|-----------------|----------------|-------------------|-----------------|----------------|
| 1   | A    | 2.349              | 7.20           | 28.53        | 56.00           | -27.47         | 20.78             | 46.00           | -25.22         |
| 2   | A    | 2.961              | 7.26           | 30.04        | 56.00           | -25.96         | 22.10             | 46.00           | -23.90         |
| 3   | A    | 3.307              | 7.29           | 30.95        | 56.00           | -25.05         | 23.34             | 46.00           | -22.66         |
| 4   | A    | 3.611              | 7.32           | 32.50        | 56.00           | -23.50         | 24.39             | 46.00           | -21.61         |
| 5   | A    | 3.754              | 7.33           | 31.70        | 56.00           | -24.30         | 24.08             | 46.00           | -21.92         |
| 6   | A    | 11.240             | 7.69           | 38.80        | 60.00           | -21.20         | 28.67             | 50.00           | -21.33         |
| 7   | A    | 11.758             | 7.75           | 37.75        | 60.00           | -22.25         | 28.76             | 50.00           | -21.24         |
| 8   | A    | 12.181             | 7.80           | 39.05        | 60.00           | -20.95         | 28.77             | 50.00           | -21.23         |
| 9   | A    | 12.830             | 7.87           | 37.47        | 60.00           | -22.53         | 27.66             | 50.00           | -22.34         |
| 10  | A    | 19.262             | 8.42           | 27.87        | 60.00           | -32.13         | 20.94             | 50.00           | -29.06         |
| 11  | B    | 10.764             | 7.68           | 42.87        | 60.00           | -17.13         | 33.11             | 50.00           | -16.89         |
| 12  | B    | 10.980             | 7.69           | 43.58        | 60.00           | -16.42         | 33.39             | 50.00           | -16.61         |
| 13  | B    | 11.234             | 7.72           | 44.43        | 60.00           | -15.57         | 30.55             | 50.00           | -19.45         |
| 14  | B    | 11.962             | 7.81           | 45.32        | 60.00           | -14.68         | 35.07             | 50.00           | -14.93         |
| 15  | B    | 12.436             | 7.87           | 44.00        | 60.00           | -16.00         | 33.11             | 50.00           | -16.89         |
| 16  | B    | 12.828             | 7.91           | 45.06        | 60.00           | -14.94         | 30.13             | 50.00           | -19.87         |
| 17  | B    | 12.930             | 7.92           | 45.30        | 60.00           | -14.70         | 34.80             | 50.00           | -15.20         |
| 18  | B    | 13.716             | 8.01           | 42.88        | 60.00           | -17.12         | 29.34             | 50.00           | -20.66         |
| 19  | B    | 13.770             | 8.01           | 43.29        | 60.00           | -16.71         | 33.71             | 50.00           | -16.29         |
| 20  | B    | 13.923             | 8.03           | 43.87        | 60.00           | -16.13         | 31.99             | 50.00           | -18.01         |

Table 6-22. Line Conducted Data with 802.11n (5.8GHz)

### Notes:

1. All Modes of operation were investigated and the worst-case emissions are reported using 6.5/7.2Mbps.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

|                                      |                                                                                     |                                                                    |                                                                                       |                                 |
|--------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LGTN8000                   |  | FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br>(CERTIFICATION) |  | Reviewed by:<br>Quality Manager |
| Test Report S/N:<br>0Y1112152157.A3L | Test Dates:<br>December 14 - 19, 2011                                               | EUT Type:<br>Portable Tablet Computer                              |                                                                                       | Page 64 of 65                   |

## 7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet Computer FCC ID: A3LGTN8000** is in compliance with Part 15C of the FCC Rules and RSS-210 of the Industry Canada Rules.

|                                             |                                                                                     |                                                                            |                                                                                       |                                        |
|---------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> A3LGTN8000                   |  | <b>FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |  | <b>Reviewed by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>0Y1112152157.A3L | <b>Test Dates:</b><br>December 14 - 19, 2011                                        | <b>EUT Type:</b><br>Portable Tablet Computer                               |                                                                                       | Page 65 of 65                          |