

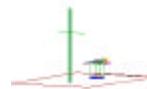


PCTEST ENGINEERING LABORATORY, INC.

6660-B Dobbin Road, Columbia, MD 21045 USA

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<http://www.pctestlab.com>



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

Applicant Name:

NEC CASIO Mobile Communications, Ltd.
1753 Shimonumabe, Nakahara-Ku Kawasaki
Kanagawa, 211-8666
Japan

Date of Testing:

October 1, 2010

Test Site/Location:

PCTEST Lab, Columbia, MD, USA

Test Report Serial No.:

0Y1009231640.TYK

FCC ID:

TYKNX9320

APPLICANT:

NEC CASIO Mobile Communications, Ltd.

Application Type: Certification

Model(s): C771

EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN

Max. RF Output Power: 49.2 mW (16.92 dBm) Peak Conducted (b)

63.68 mW (18.04 dBm) Peak Conducted (g)

63.24 mW (18.01 dBm) Peak Conducted (n)

Frequency Range: 2412 - 2462 MHz (DSSS/OFDM)

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15.247

IC Specification(s): RSS-210 Issue 7

Test Device Serial No.: A100000A6605C9

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 G63.4-2003. 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: Power output listed 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

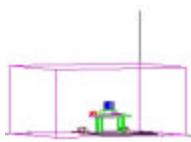


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| FCC ID: TYKNX9320 | | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 1 of 39 |

T A B L E O F C O N T E N T S

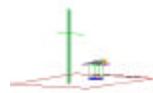
| | |
|---|----|
| FCC PART 15.247 MEASUREMENT REPORT..... | 3 |
| 1.0 INTRODUCTION | 4 |
| 1.1 SCOPE..... | 4 |
| 1.2 PCTEST TEST LOCATION | 4 |
| 2.0 PRODUCT INFORMATION | 5 |
| 2.1 EQUIPMENT DESCRIPTION | 5 |
| 2.2 EMI SUPPRESSION DEVICE(S)/MODIFICATIONS | 5 |
| 2.3 LABELING REQUIREMENTS..... | 5 |
| 3.0 DESCRIPTION OF TEST | 6 |
| 3.1 EVALUATION PROCEDURE..... | 6 |
| 3.2 CONDUCTED EMISSIONS..... | 6 |
| 3.3 RADIATED EMISSIONS | 7 |
| 4.0 ANTENNA REQUIREMENTS | 8 |
| 5.0 TEST EQUIPMENT CALIBRATION DATA | 9 |
| 6.0 TEST RESULTS | 10 |
| 6.1 SUMMARY | 10 |
| 6.2 6DB BANDWIDTH MEASUREMENT – 802.11B/G/N | 11 |
| 6.3 OUTPUT POWER MEASUREMENT – 802.11B | 14 |
| 6.4 OUTPUT POWER MEASUREMENT – 802.11G/N | 15 |
| 6.5 POWER SPECTRAL DENSITY (802.11B/G/N)..... | 16 |
| 6.6 CONDUCTED EMISSIONS AT THE BAND EDGE..... | 19 |
| 6.7 CONDUCTED SPURIOUS EMISSIONS | 23 |
| 6.8 RADIATED SPURIOUS EMISSION MEASUREMENTS | 27 |
| 6.9 RADIATED RESTRICTED BAND EDGE MEASUREMENTS | 31 |
| 6.10 LINE-CONDUCTED TEST DATA..... | 33 |
| 7.0 CONCLUSION | 39 |

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  PCTEST Engineering Laboratory, Inc. | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 2 of 39 |



MEASUREMENT REPORT

FCC Part 15.247



§ 2.1033 General Information

APPLICANT: NEC CASIO Mobile Communications, Ltd.

APPLICANT ADDRESS: 1753 Shimonumabe, Nakahara-Ku Kawasaki Kanagawa, 211-8666, Japan

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 7

MODEL NAME: C771

FCC ID: TYKNX9320

Test Device Serial No.: A100000A6605C9 Production Pre-Production Engineering

FCC CLASSIFICATION: Digital Transmission System (DTS)

DATE(S) OF TEST: October 1, 2010

TEST REPORT S/N: 0Y1009231640.TYK

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.



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| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 3 of 39 |

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 Internt'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 ANS I C63.4-2003 on January 28, 2009.

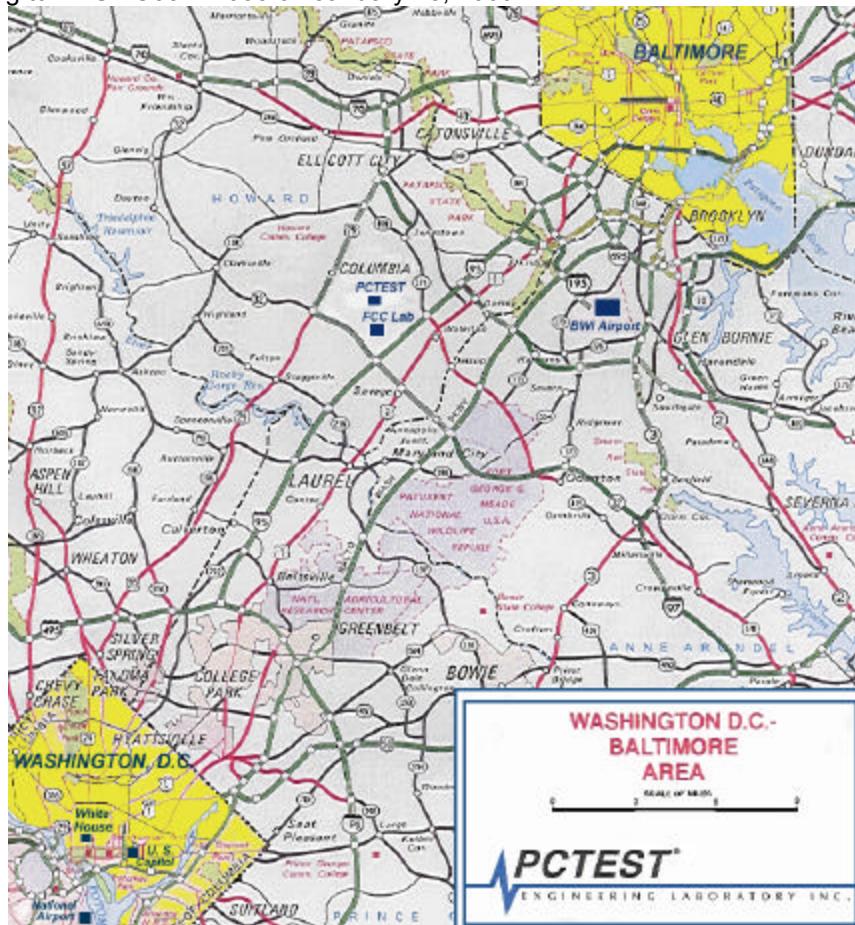


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 4 of 39 |

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **NEC CASIO Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN** FCC ID: **TYKNX9320**. The EUT consisted of the following component(s):

| Manufacturer / Model | FCC ID | Description |
|-------------------------|-----------|--|
| NEC CASIO / Model: C771 | TYKNX9320 | Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN |

Table 2-1. EUT Equipment Description

2.2 EMI Suppression Device(s)/Modifications

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

2.3 Labeling Requirements

Per 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: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 5 of 39 |

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 **NEC CASIO Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN FCC ID: TYKNX9320**.

Deviation from measurement procedure.....**None**

3.2 Conducted Emissions

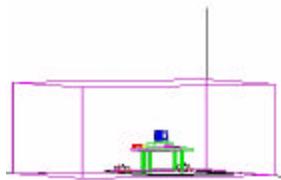


Figure 3-1. Shielded Enclosure Line-Conducted Test Facility

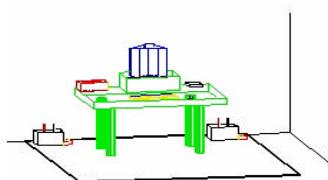


Figure 3-2. Line Conducted Emission Test Set-Up

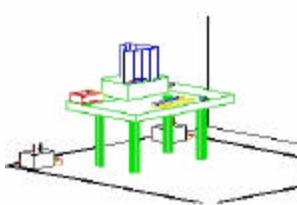


Figure 3-3. Wooden Table & Bonded LISNs

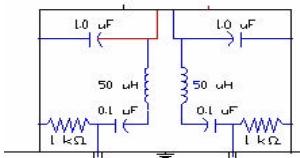


Figure 3-4. LISN Schematic Diagram

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 side wall 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 1/2". 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.

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
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| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 6 of 39 |

3.3 Radiated Emissions

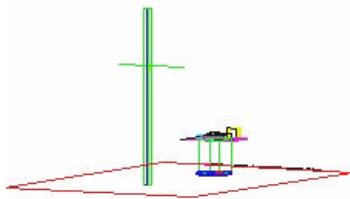


Figure 3-5. 3-Meter Test Site

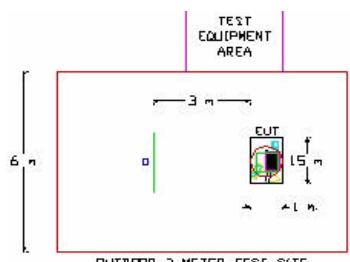


Figure 3-6. Dimensions of Outdoor Test Site

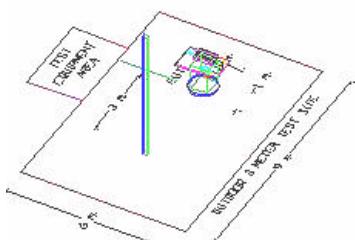


Figure 3-7. Turtable and System Setup

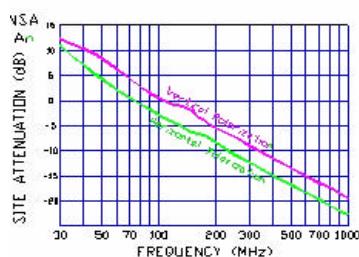


Figure 3-8. Normalized Site Attenuation Curves (H&V)

Preliminary measurements were made indoors at 1 -meter using bro adband antennas, broadband amplifier s, and spectrum analyzer s 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 measurement s were made outdoors at 3-meter test range using Roberts™ Dipole antennas or horn antenna s (see Figure 3-5). The test equipment was placed on a wooden and plastic bench situated on a 1.5 m 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 detect or 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 maximiz ed 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 changin g the polarity of the antenna, 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. The Theoretical Normalized Site Attenuation Curves for both horizontal and vertical polarization are shown in Figure 3-8.

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 7 of 39 |

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 antenna(s) of the Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The **NEC CASIO Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN** FCC ID: **TYKNX9320** 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 | | |

Table 4-1. Frequency / Channel Operations

| | | | | |
|--------------------------------------|--|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  PCTEST Engineering Laboratory, Inc. | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 8 of 39 |

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 |
|-----------------|-----------|------------------------------------|------------|--------------|------------|---------------|
| - | No.165 | (30MHz - 1000MHz) RG58 Coax Cable | N/A | | N/A | N/A |
| - | No.166 | (1000-26500MHz) Microwave RF Cable | N/A | | N/A | N/A |
| - | No.167 | (100kHz - 100MHz) RG58 Coax Cable | N/A | | N/A | N/A |
| Agilent | 11713A | Attenuation/Switch Driver | 12/2/2009 | Annual | 12/2/2010 | 3439A02645 |
| Agilent | 8447D | Broadband Amplifier | 3/18/2010 | Annual | 3/18/2011 | 1937A03348 |
| Agilent | 8447D | Broadband Amplifier | 3/18/2010 | Annual | 3/18/2011 | 2443A01900 |
| Agilent | 8449B | (1-26.5GHz) Pre-Amplifier | 12/2/2009 | Annual | 12/2/2010 | 3008A00985 |
| Agilent | 85650A | Quasi-Peak Adapter | 12/2/2009 | Annual | 12/2/2010 | 3303A01872 |
| Agilent | 85650A | Quasi-Peak Adapter | 3/30/2010 | Annual | 3/30/2011 | 2043A00301 |
| Agilent | 8566B | (100Hz-22GHz) Spectrum Analyzer | 3/30/2010 | Annual | 3/30/2011 | 2618A02866 |
| Agilent | 8566B | (100Hz-22GHz) Spectrum Analyzer | 3/30/2010 | Annual | 3/30/2011 | 2542A11898 |
| Agilent | 8566B | (100Hz-22GHz) Spectrum Analyzer | 12/2/2009 | Annual | 12/2/2010 | 3638A08713 |
| Agilent | E4407B | ESA Spectrum Analyzer | 3/30/2010 | Annual | 3/30/2011 | US39210313 |
| Agilent | E4448A | PSA (3Hz-50GHz) Spectrum Analyzer | 11/1/2009 | Annual | 11/1/2010 | US42510244 |
| Agilent | E8257D | (250kHz-20GHz) Signal Generator | 3/30/2010 | Annual | 3/30/2011 | MY45470194 |
| Agilent | N9020A | MXA Signal Analyzer | 10/22/2009 | Annual | 10/22/2010 | US46470561 |
| Emco | 3115 | Horn Antenna (1-18GHz) | 10/14/2009 | Biennial | 10/14/2011 | 9704-5182 |
| Emco | 3115 | Horn Antenna (1-18GHz) | 4/8/2010 | Biennial | 4/8/2012 | 9205-3874 |
| Emco | 3116 | Horn Antenna (18 - 40GHz) | 9/9/2008 | Triennial | 9/9/2011 | 9203-2178 |
| Emco | 3816/2 | LISN | 10/8/2008 | Biennial | 10/8/2010 | 9707-1077 |
| Emco | 3816/2 | LISN | 10/8/2008 | Biennial | 10/8/2010 | 9707-1079 |
| MiniCircuits | VHF-3100+ | High Pass Filter | N/A | | N/A | 30721 |
| Sunol | DRH-118 | Horn Antenna (1 - 18GHz) | 5/14/2009 | Biennial | 5/14/2011 | A050307 |
| Sunol | JB5 | Bi-Log Antenna (30M - 5GHz) | 7/17/2009 | Biennial | 7/17/2011 | A051107 |
| Rohde & Schwarz | FSQ 26 | Spectrum Analyzer | 8/28/2010 | Annual | 8/28/2011 | 200452 |
| Anritsu | ML2495A | Power Meter | 10/12/2009 | Annual | 10/12/2010 | 941001 |

Table 5-1. Annual Test Equipment Calibration Schedule

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
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| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 9 of 39 |

6.0 TEST RESULTS

6.1 Summary

Company Name: NEC CASIO Mobile Communications, Ltd.
 FCC ID: TYKNX9320
 FCC Classification: Digital Transmission System (DTS)
 Data Rate(s) Tested: 1Mbps, 2Mbps, 5.5Mbps, 11Mbps (b)
6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps (g)
6.5/7.2Mbps, 13/14.4Mbps, 19.5/21.7Mbps, 26/28.9Mbps, 39/43.3Mbps,
52/57.8Mbps, 58.5/65Mbps, 65/72.2Mbps (n)

| FCC Part Section(s) | RSS Section(s) | Test Description | Test Limit | Test Condition | Test Result | Reference |
|---|-------------------|--|---|----------------------------------|-------------|----------------------|
| TRANSMITTER MODE (TX) | | | | | | |
| 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 |
| 15.247(e) | RSS-210 [A8.2] | Transmitter Power Spectral Density | < 8dBm / 3kHz Band | | PASS | Section 6.5 |
| 15.247(d) | RSS-210 [A8.5] | Band Edge / Out-of-Band Emissions | < 20dBc (Peak) | | PASS | Sections 6.6, 6.7 |
| 15.205 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 (RSS-210 table 3 limits) | RADIATED | PASS | Sections 6.8, 6.9 |
| 15.207 | RSS-Gen [7.2.2] | AC Conducted Emissions 150kHz – 30MHz | < FCC 15.207 limits or < RSS-Gen table 2 limits | LINE CONDUCTED | PASS | Section 6.10 |
| RECEIVER MODE (RX) / DIGITAL EMISSIONS | | | | | | |
| 15.107 | RSS-Gen [7.2.2] | AC Conducted Emissions 150kHz – 30MHz | < FCC 15.107 limits or < RSS-Gen table 2 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 or < RSS-210 table 3 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: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 10 of 39 |

6.2 6dB Bandwidth Measurement – 802.11b/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 | Data Rate [Mbps] | Measured Bandwidth [MHz] | Minimum Bandwidth [MHz] | Pass / Fail |
|-----------------|-------------|-------------|------------------|--------------------------|-------------------------|-------------|
| 2412 | 1 | b | 1 | 8.070 | 0.500 | Pass |
| 2437 | 6 | b | 1 | 9.000 | 0.500 | Pass |
| 2462 | 11 | b | 1 | 8.600 | 0.500 | Pass |
| 2412 | 1 | g | 6 | 16.400 | 0.500 | Pass |
| 2437 | 6 | g | 6 | 16.470 | 0.500 | Pass |
| 2462 | 11 | g | 6 | 16.400 | 0.500 | Pass |
| 2412 | 1 | n | 6.5/7.2 (MCS0) | 17.330 | 0.500 | Pass |
| 2437 | 6 | n | 6.5/7.2 (MCS0) | 17.000 | 0.500 | Pass |
| 2462 | 11 | n | 6.5/7.2 (MCS0) | 17.270 | 0.500 | Pass |

Table 6-2. Conducted Bandwidth Measurements

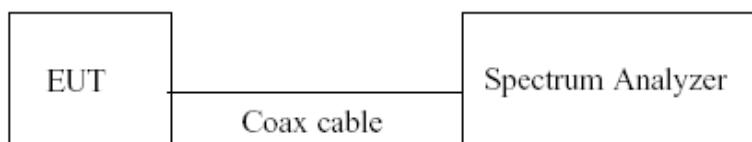
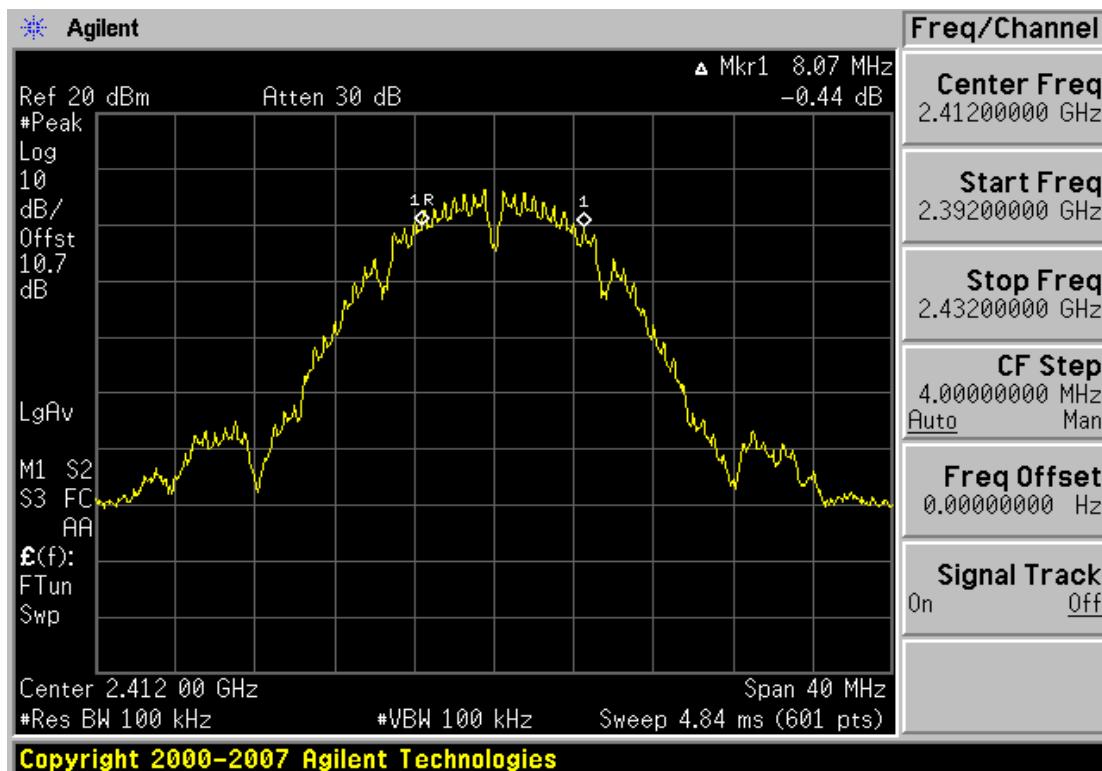
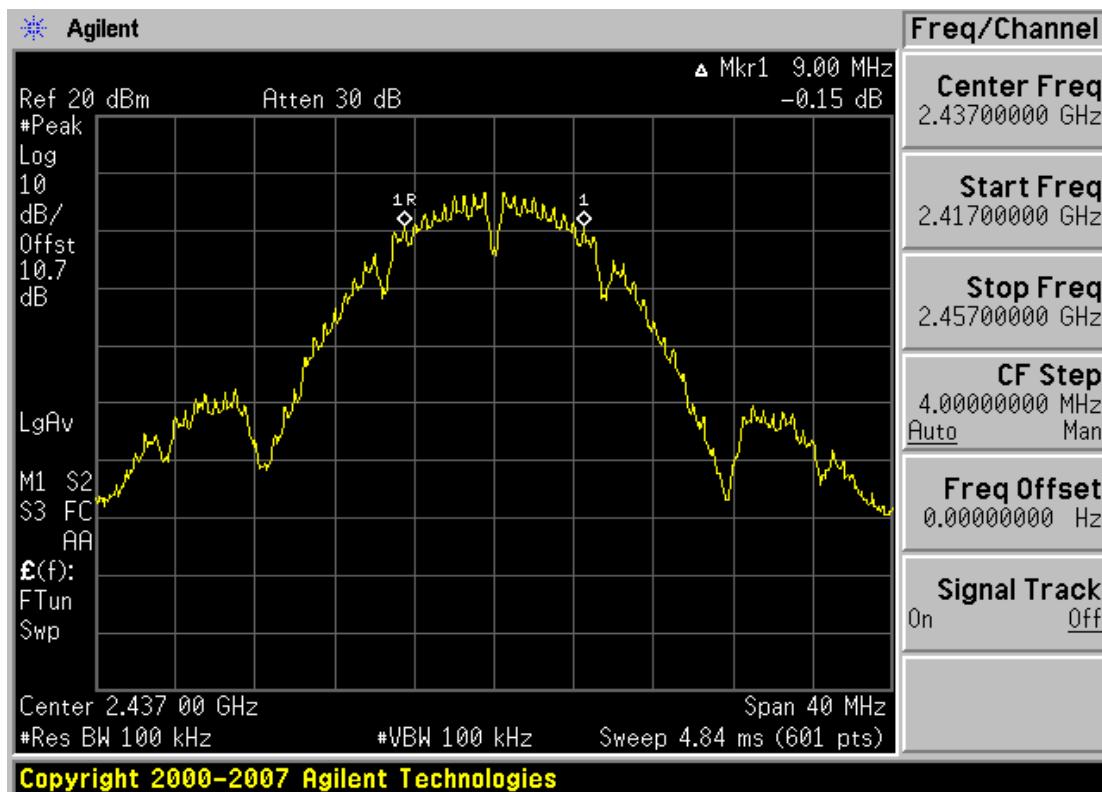


Figure 6-1. Test Instrument & Measurement Setup

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 11 of 39 |

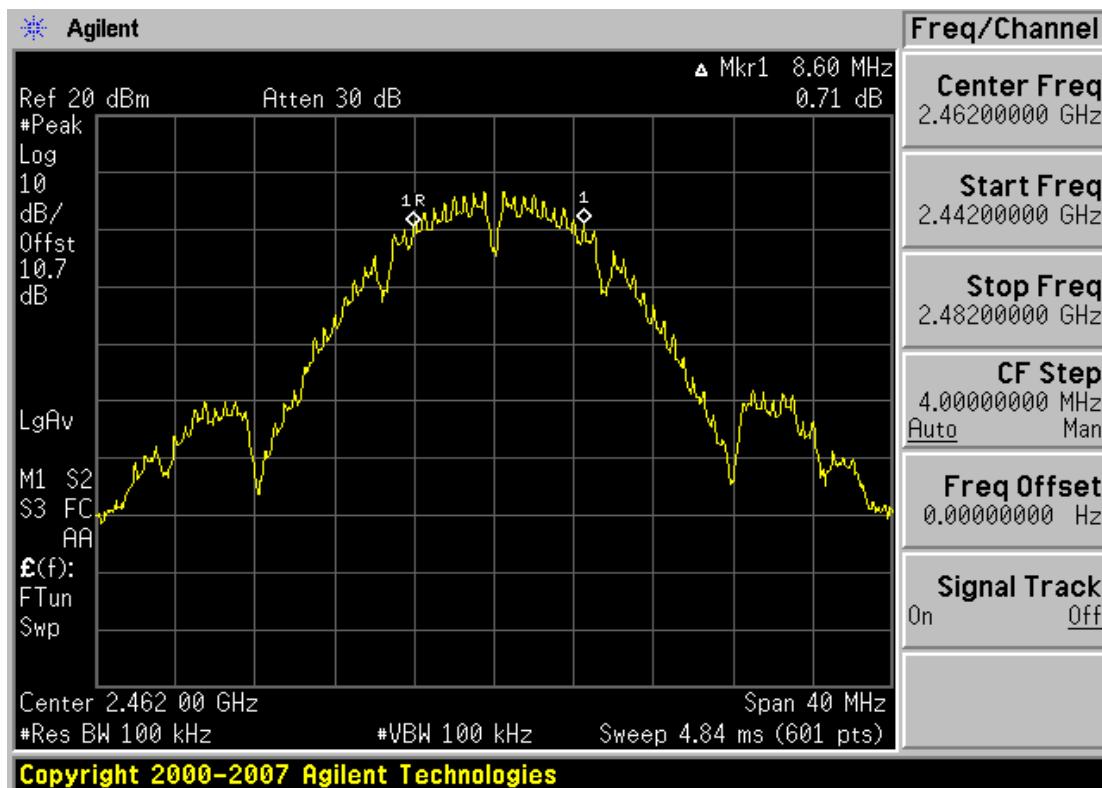


Plot 6-1. 6dB Bandwidth Plot (802.11b – Ch. 1)



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

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 12 of 39 |



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

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  PCTEST Engineering Laboratory, Inc. | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 13 of 39 |

6.3 Output Power Measurement – 802.11b

§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 average 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 | 13.08 | 15.85 |
| | | 2 | 13.07 | 15.84 |
| | | 5.5 | 13.45 | 15.95 |
| 2437 | 6 | 1 | 14.02 | 16.62 |
| | | 2 | 14.19 | 16.6 |
| | | 5.5 | 14.67 | 16.8 |
| 2462 | 11 | 1 | 13.76 | 16.22 |
| | | 2 | 13.78 | 16.22 |
| | | 5.5 | 14.3 | 16.31 |
| | | 11 | 13.98 | 16.44 |

Table 6-3. Conducted Output Power Measurements (802.11b)

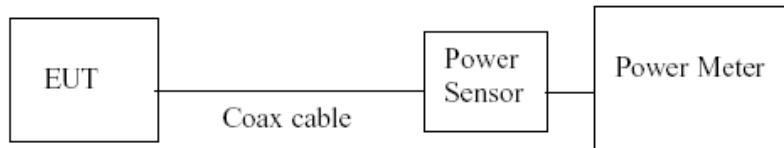


Figure 6-2. Test Instrument & Measurement Setup

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 14 of 39 |

6.4 Output Power Measurement – 802.11g/n

§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 average 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 | 6 | 10.63 | 18.03 |
| | | 9 | 10.62 | 18.03 |
| | | 12 | 10.28 | 17.94 |
| | | 18 | 9.82 | 17.78 |
| | | 24 | 9.44 | 17.58 |
| | | 36 | 8.74 | 17.49 |
| | | 48 | 8.14 | 17.02 |
| | | 54 | 7.17 | 16.48 |
| | | | | |
| 2437 | 6 | 6 | 11.85 | 17.99 |
| | | 9 | 11.83 | 18.04 |
| | | 12 | 11.29 | 17.81 |
| | | 18 | 10.81 | 17.74 |
| | | 24 | 10.46 | 18 |
| | | 36 | 9.95 | 17.74 |
| | | 48 | 9.14 | 17.47 |
| | | 54 | 8.37 | 17 |
| | | | | |
| 2462 | 11 | 6 | 11.35 | 17.36 |
| | | 9 | 11.34 | 17.34 |
| | | 12 | 11 | 17.29 |
| | | 18 | 10.6 | 17.47 |
| | | 24 | 10.17 | 17.4 |
| | | 36 | 9.7 | 17.27 |
| | | 48 | 9 | 17.01 |
| | | 54 | 7.73 | 16.27 |
| | | | | |

Table 6-4. Conducted Output Power Measurements (802.11g)

| Freq [MHz] | Channel | MCS Index | Data Rate [Mbps] | Measured Average Power [dBm] | Measured Peak Power [dBm] |
|------------|---------|-----------|------------------|------------------------------|---------------------------|
| 2412 | 1 | 0 | 6.5/7.2 | 10.61 | 17.91 |
| | | 1 | 13/14.4 | 10.35 | 18 |
| | | 2 | 19.5/21.7 | 9.89 | 17.82 |
| | | 3 | 26/28.9 | 9.52 | 17.82 |
| | | 4 | 39/43.3 | 8.82 | 17.42 |
| | | 5 | 52/57.8 | 8.26 | 17.01 |
| | | 6 | 58.5/65 | 7.62 | 17.03 |
| | | 7 | 65/72.2 | 5.59 | 15.313 |
| | | | | | |
| 2437 | 6 | 0 | 6.5/7.2 | 11.86 | 18.01 |
| | | 1 | 13/14.4 | 11.34 | 17.66 |
| | | 2 | 19.5/21.7 | 10.87 | 17.6 |
| | | 3 | 26/28.9 | 10.53 | 17.85 |
| | | 4 | 39/43.3 | 9.93 | 17.77 |
| | | 5 | 52/57.8 | 9.22 | 17.37 |
| | | 6 | 58.5/65 | 8.73 | 17.29 |
| | | 7 | 65/72.2 | 6.54 | 16.24 |
| | | | | | |
| 2462 | 11 | 0 | 6.5/7.2 | 11.46 | 17.34 |
| | | 1 | 13/14.4 | 11 | 17.35 |
| | | 2 | 19.5/21.7 | 10.6 | 17.52 |
| | | 3 | 26/28.9 | 10.23 | 17.33 |
| | | 4 | 39/43.3 | 9.66 | 17.23 |
| | | 5 | 52/57.8 | 9.1 | 16.97 |
| | | 6 | 58.5/65 | 8.35 | 16.77 |
| | | 7 | 65/72.2 | 6.09 | 15.74 |
| | | | | | |

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

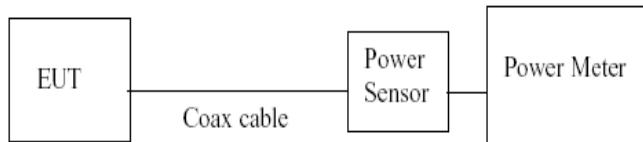


Figure 6-3. Test Instrument & Measurement Setup

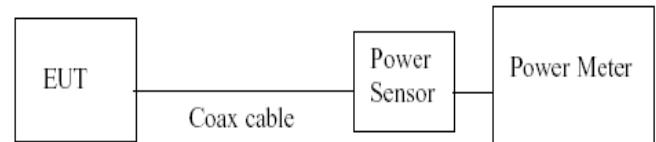


Figure 6-4. Test Instrument & Measurement Setup

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 15 of 39 |

6.5 Power Spectral Density (802.11b/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 | Data Rate [Mbps] | Measured Power Spectral Density [dBm] | Maximum Permissible Power Density [dBm / 3kHz] | Margin [dB] |
|-----------------|-------------|-------------|------------------|---------------------------------------|--|-------------|
| 2412 | 1 | b | 1 | -9.290 | 8.0 | -17.3 |
| 2437 | 6 | b | 1 | -7.540 | 8.0 | -15.5 |
| 2462 | 11 | b | 1 | -5.980 | 8.0 | -14.0 |
| 2412 | 1 | g | 6 | -12.050 | 8.0 | -20.1 |
| 2437 | 6 | g | 6 | -11.980 | 8.0 | -20.0 |
| 2462 | 11 | g | 6 | -11.580 | 8.0 | -19.6 |
| 2412 | 1 | n | 6.5/7.2 (MCS0) | -12.630 | 8.0 | -20.6 |
| 2437 | 6 | n | 6.5/7.2 (MCS0) | -10.890 | 8.0 | -18.9 |
| 2462 | 11 | n | 6.5/7.2 (MCS0) | -12.540 | 8.0 | -20.5 |

Table 6-6. Conducted Power Density Measurements

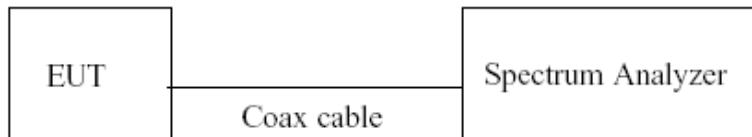
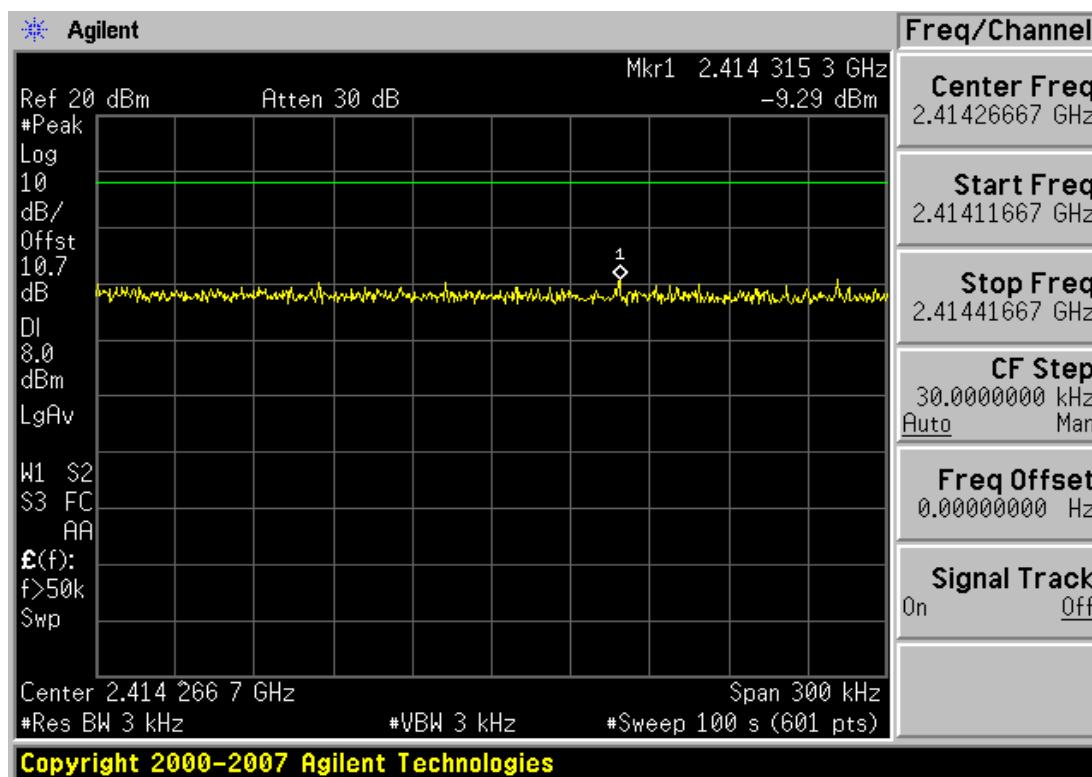
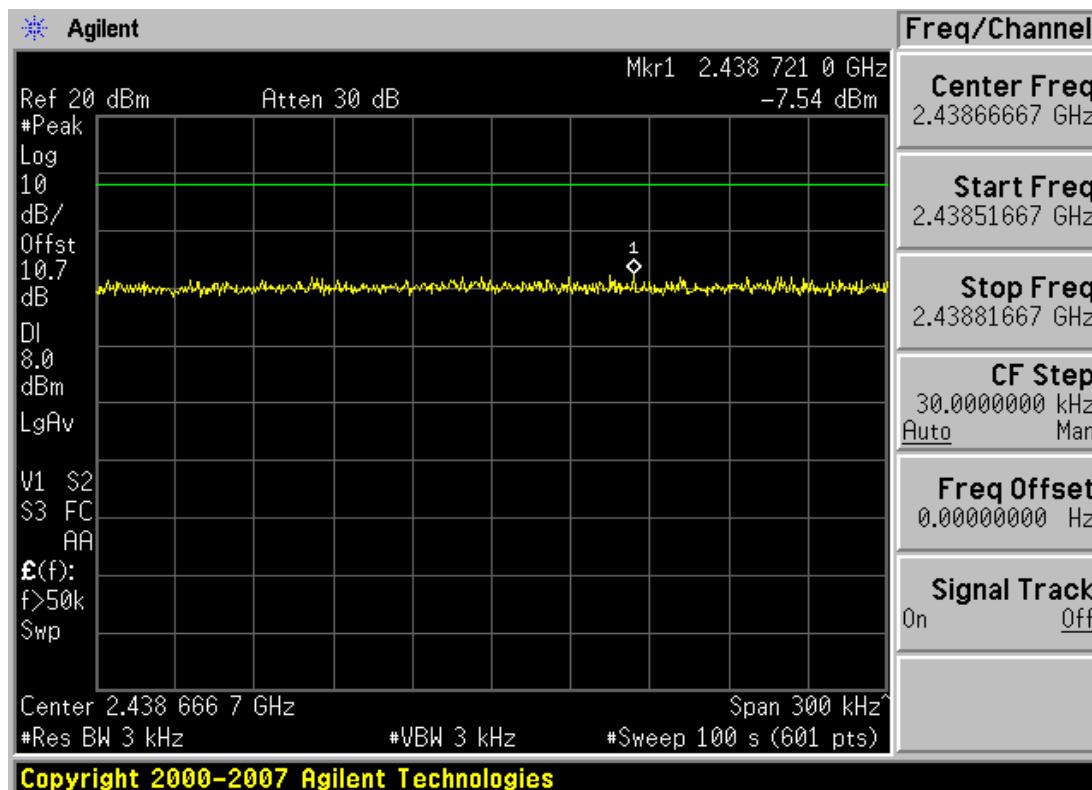


Figure 6-5. Test Instrument & Measurement Setup

| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 16 of 39 |

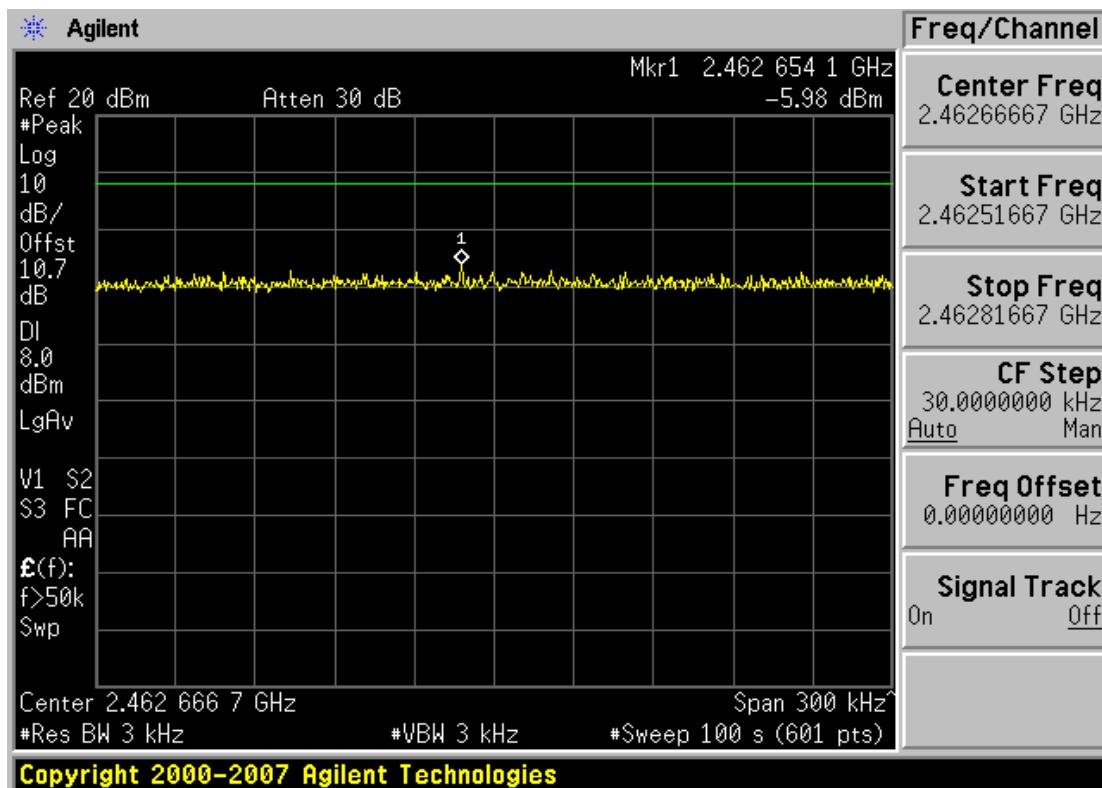


Plot 6-4. Power Spectral Density Plot (802.11b – Ch. 1)



Plot 6-5. Power Spectral Density Plot (802.11b – Ch. 6)

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 17 of 39 |



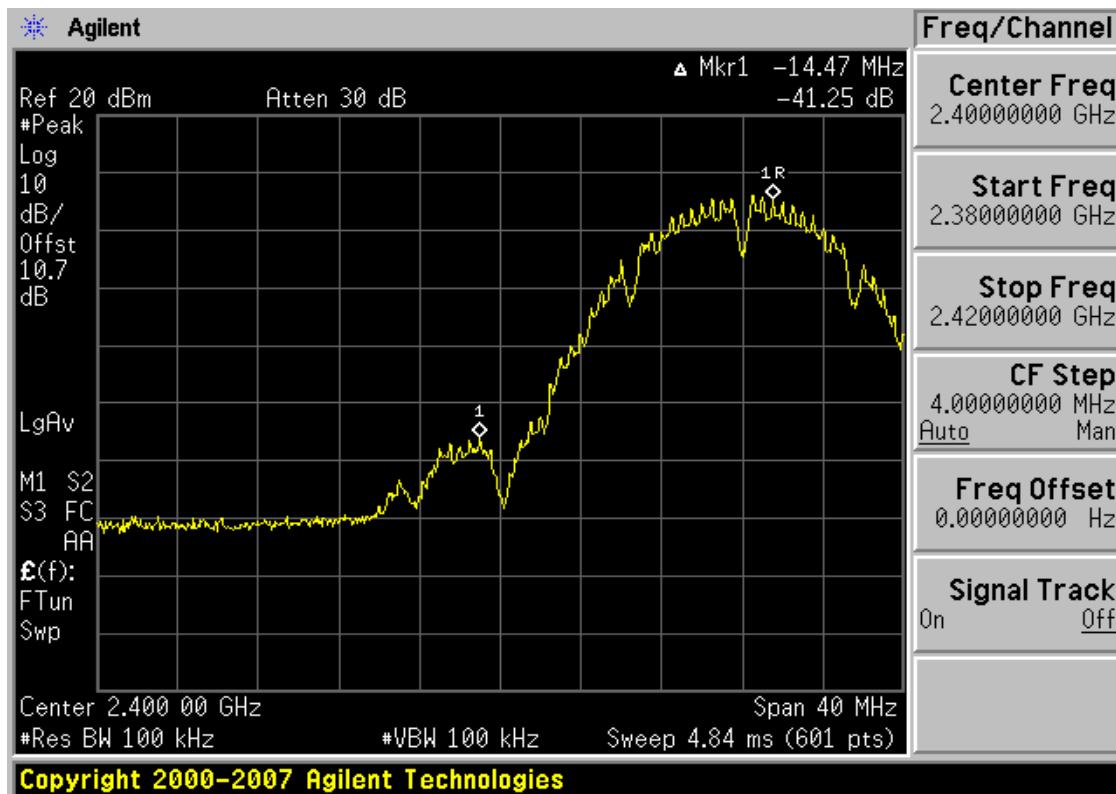
Plot 6-6. Power Spectral Density Plot (802.11b – Ch. 11)

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 18 of 39 |

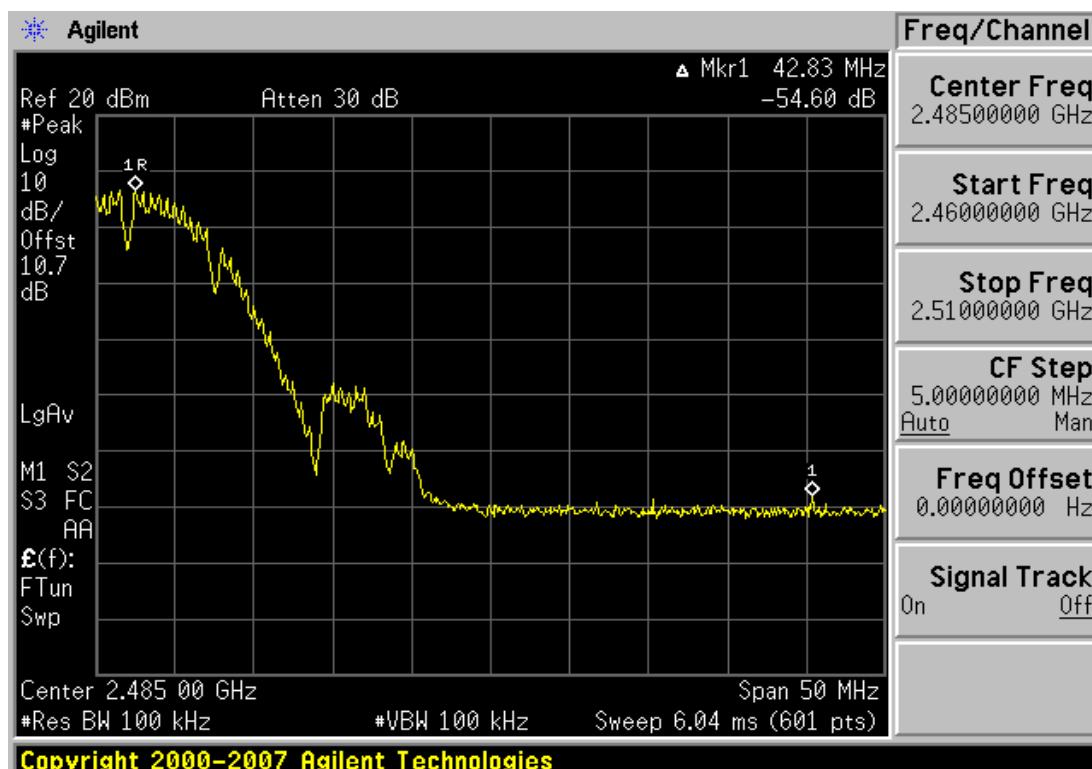
6.6 Conducted Emissions at the Band Edge

§15.247(d): RSS-210 [A8.5]

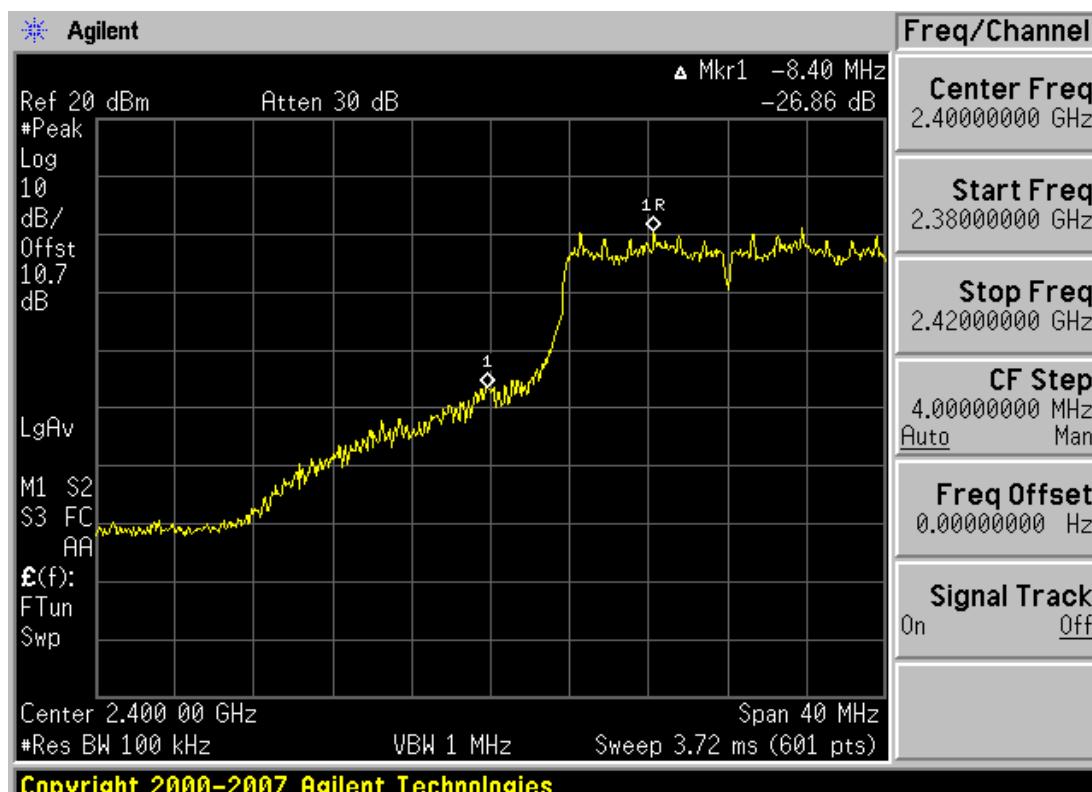
For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 1Mbps for "b" mode, 6 Mbps for "g" mode and 6.5/7.2Mbps for "n" mode. These settings produced the worst-case emissions.



| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 19 of 39 |

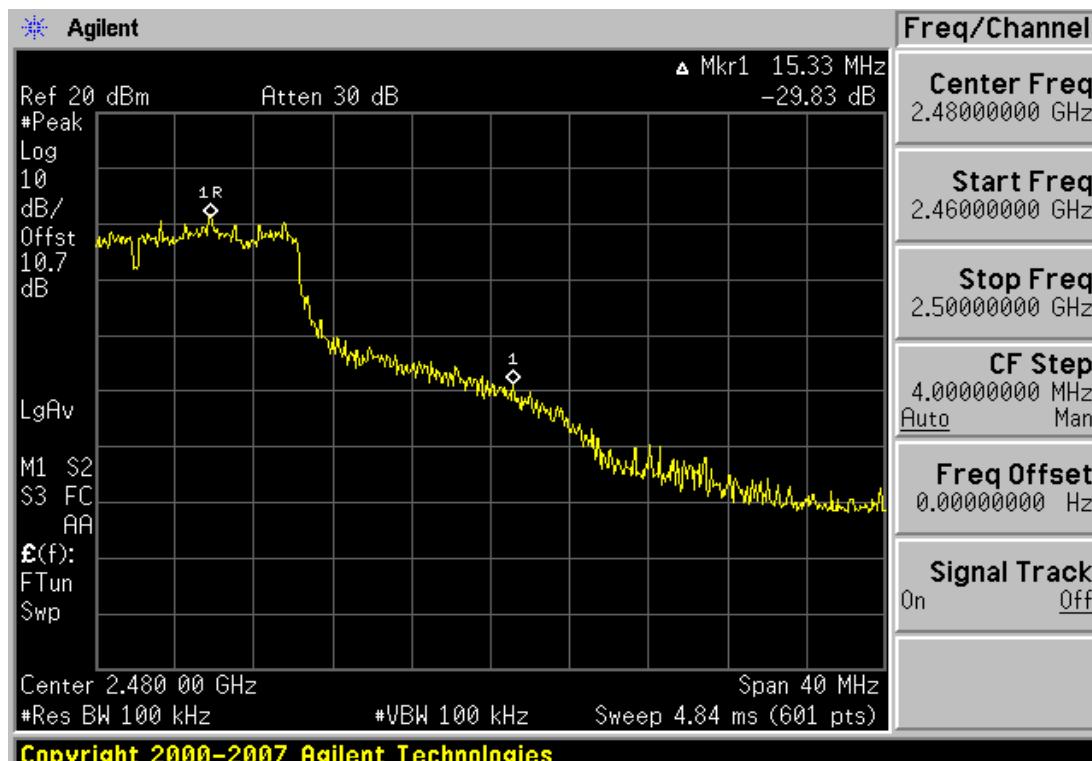


Plot 6-8. Band Edge Plot (802.11b – Ch. 11)

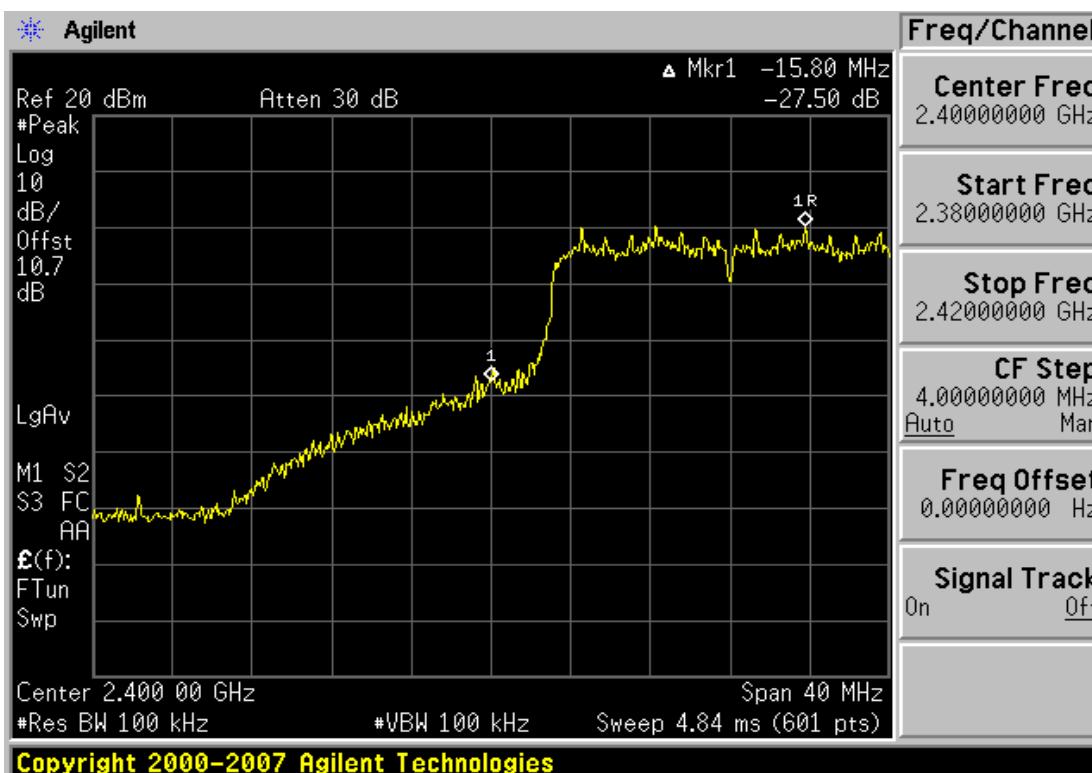


Plot 6-9. Band Edge Plot (802.11g – Ch. 1)

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 20 of 39 |

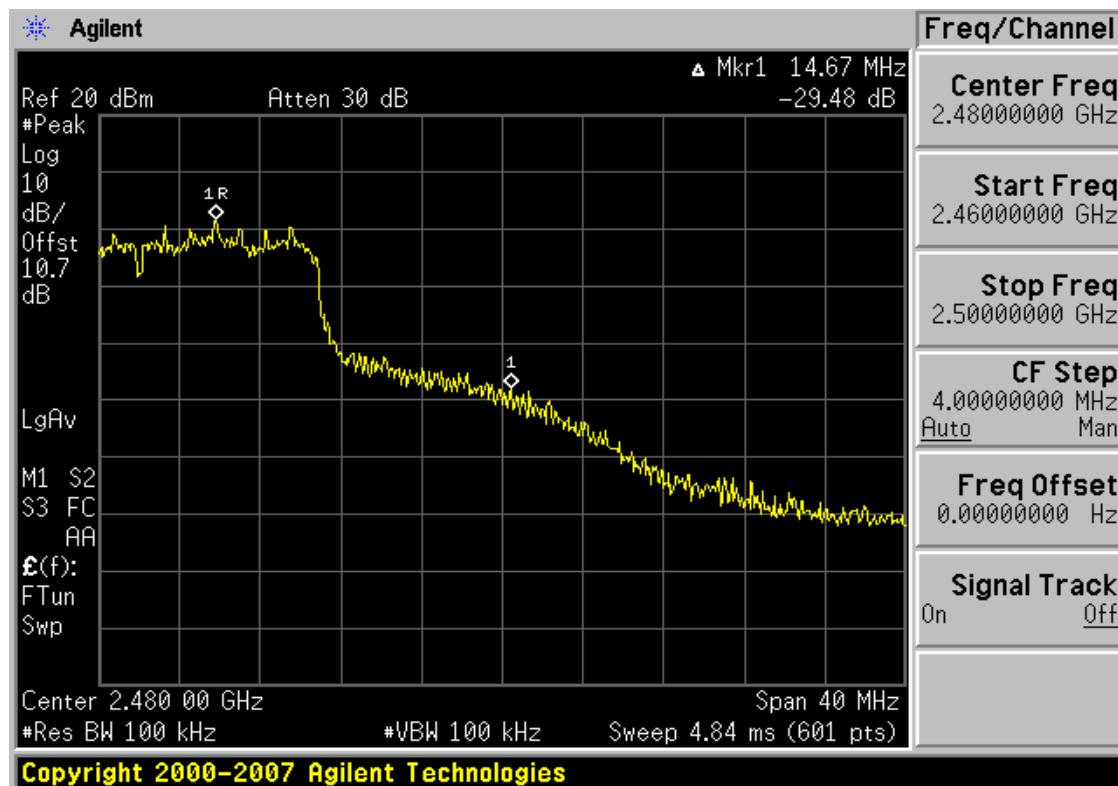


Plot 6-10. Band Edge Plot (802.11g – Ch. 11)



Plot 6-11. Band Edge Plot (802.11n – Ch. 1)

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 21 of 39 |



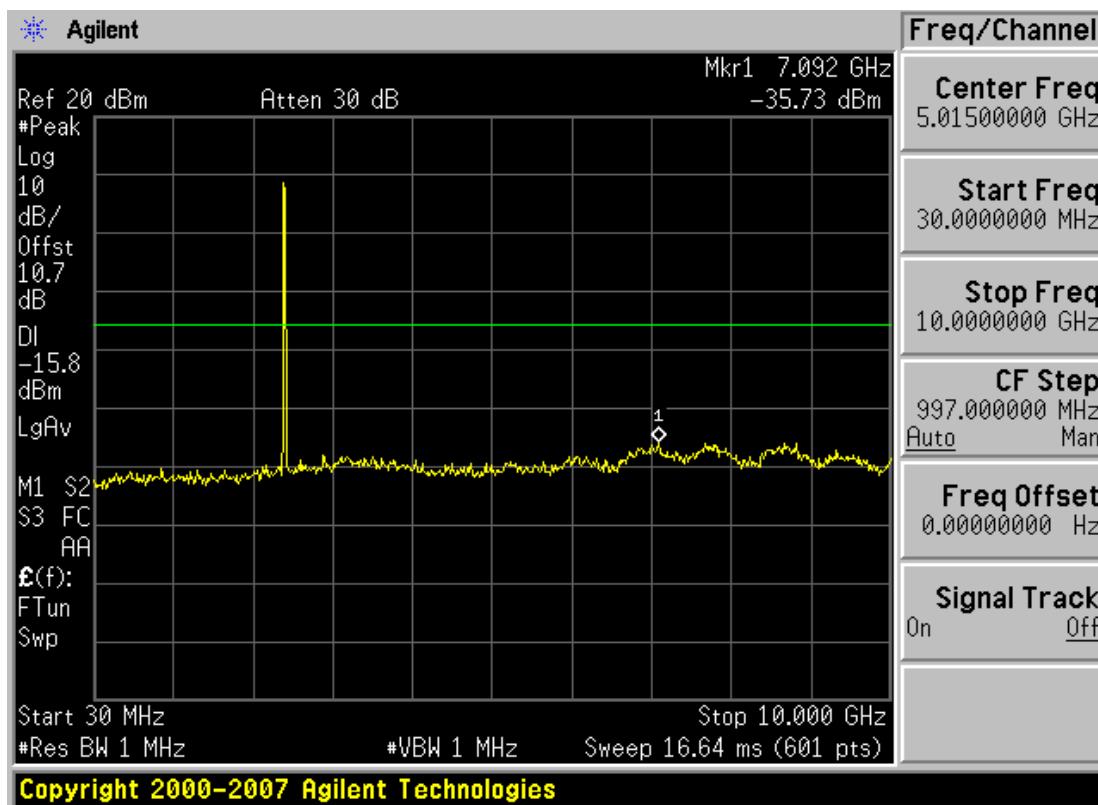
Plot 6-12. Band Edge Plot (802.11n – Ch. 11)

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 22 of 39 |

6.7 Conducted Spurious Emissions

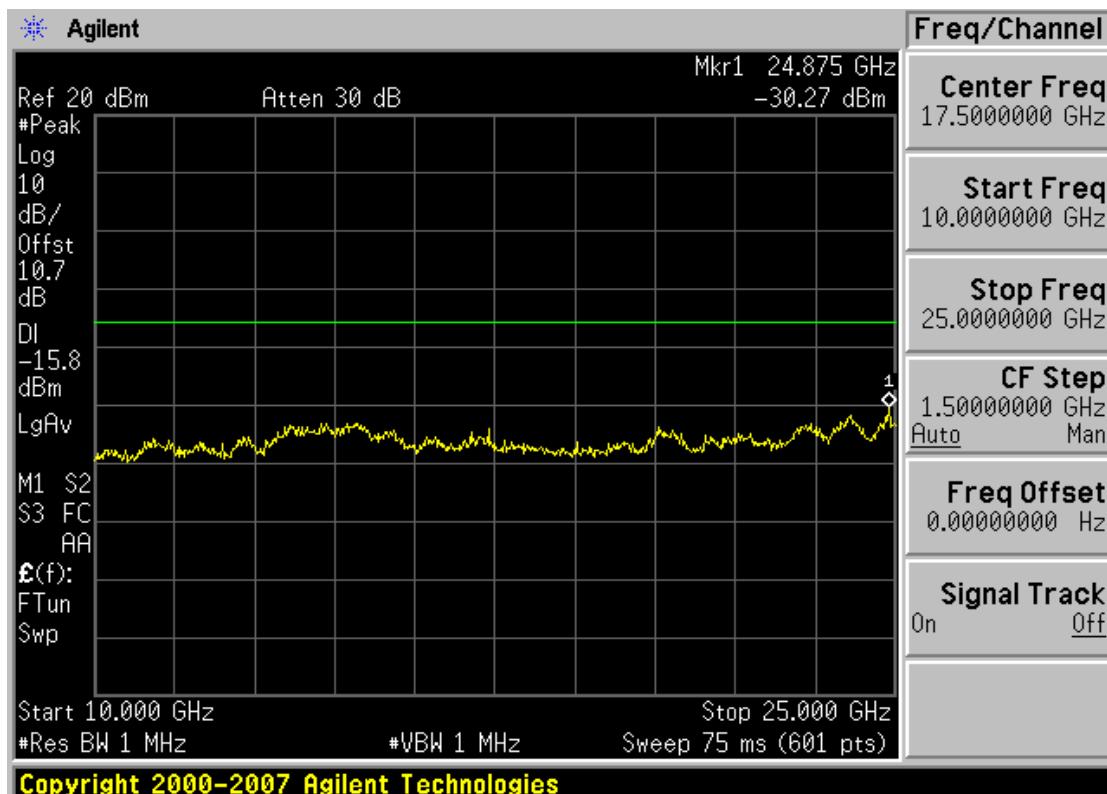
§15.247(d); RSS-210 [A8.5]

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

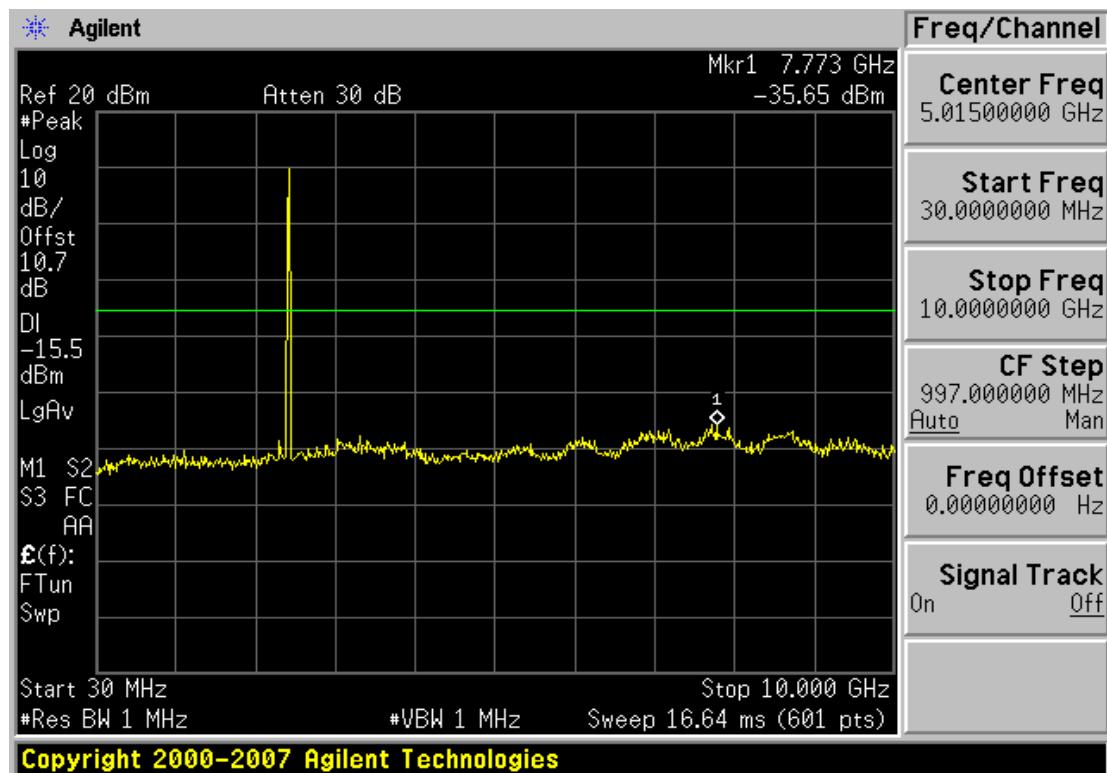


Plot 6-13. Conducted Spurious Plot (802.11b – Ch. 1)

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 23 of 39 |

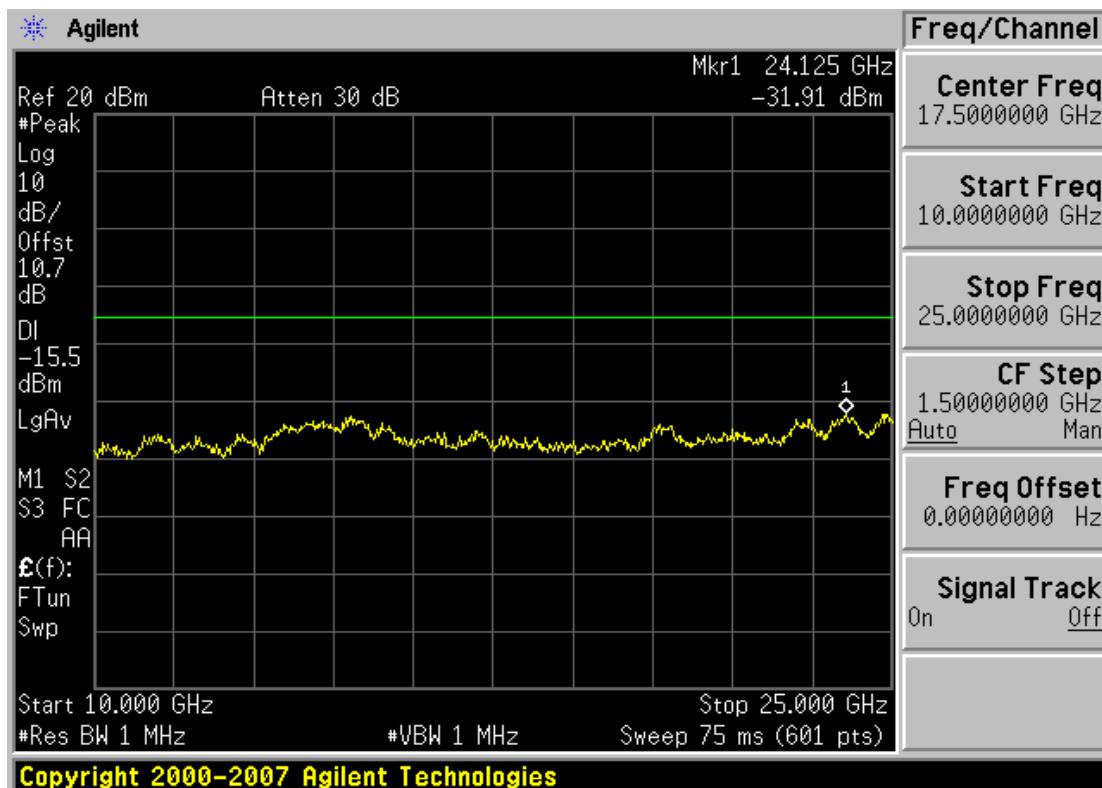


Plot 6-14. Conducted Spurious Plot (802.11b – Ch. 1)

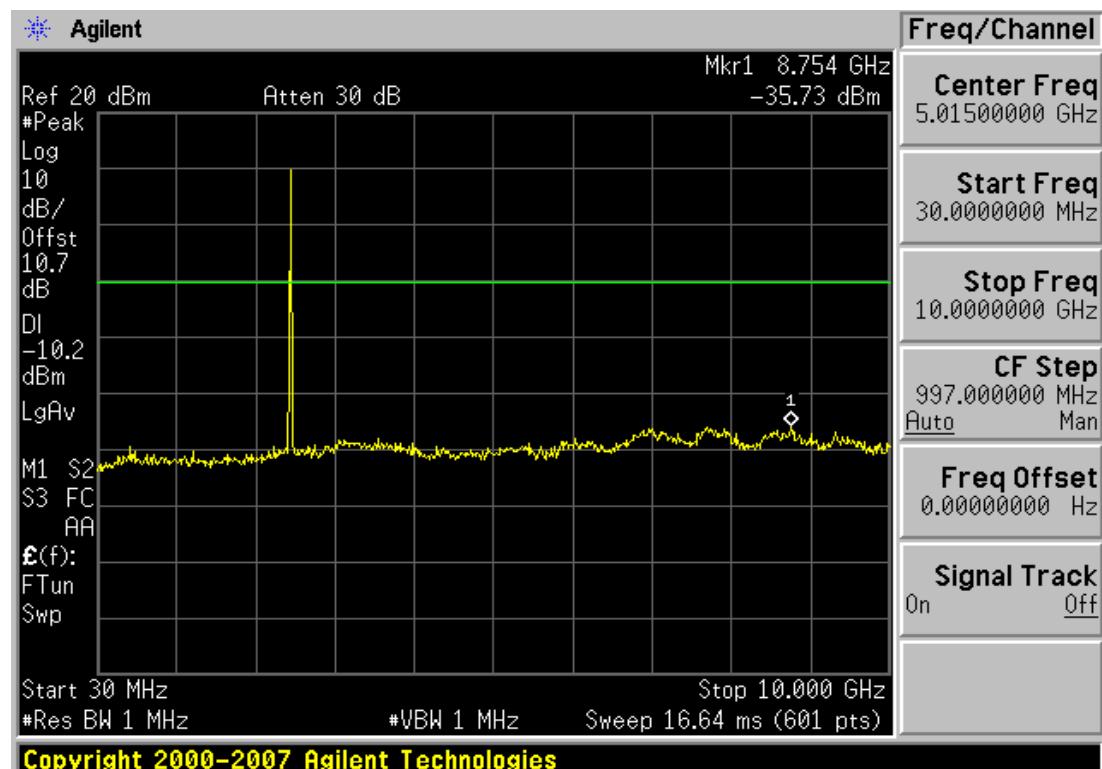


Plot 6-15. Conducted Spurious Plot (802.11b – Ch. 6)

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 24 of 39 |

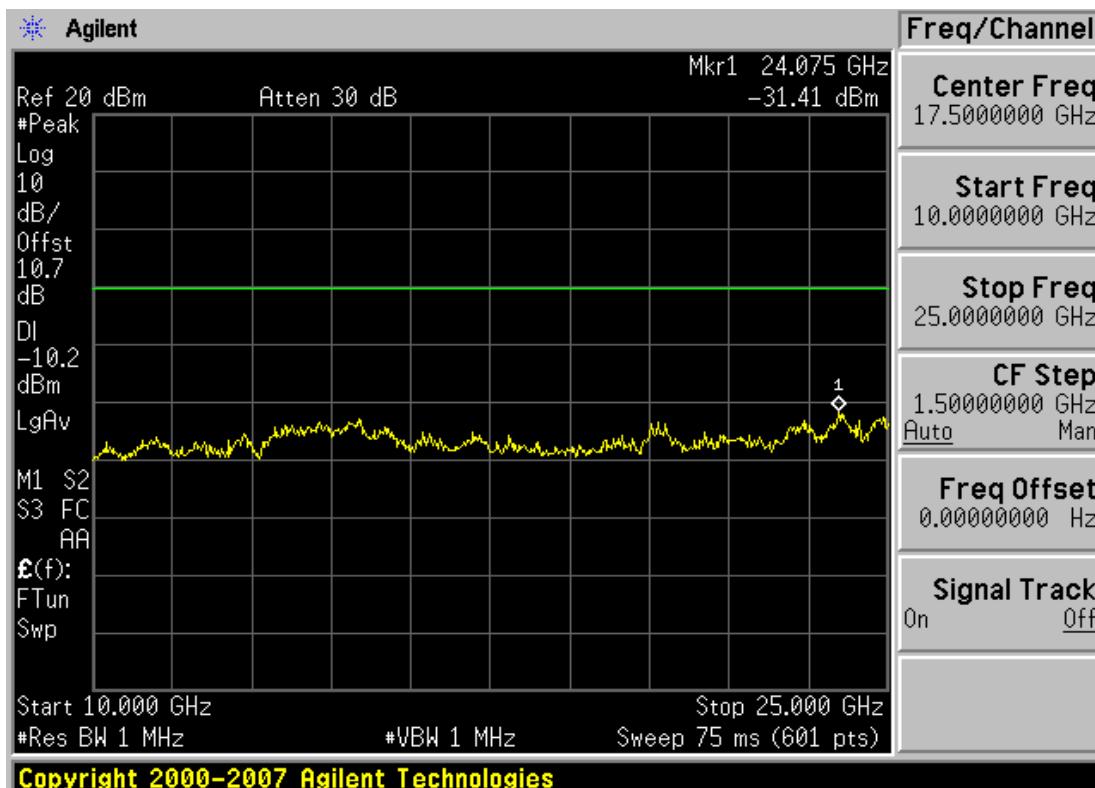


Plot 6-16. Conducted Spurious Plot (802.11b – Ch. 6)



Plot 6-17. Conducted Spurious Plot (802.11b – Ch. 11)

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 25 of 39 |



Plot 6-18. Conducted Spurious Plot (802.11b – Ch. 11)

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 26 of 39 |

6.8 Radiated Spurious Emission Measurements

§15.205, §15.209, §15.247(d); 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. 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 6-7 per Section 15.209.

| Frequency | Field Strength [mV/m] | Measured Distance [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 6-7. Radiated Limits

Sample Calculation

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

Notes:

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

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 27 of 39 |

Radiated Spurious Emission Measurements (Cont'd)

§15.205, §15.209, §15.247(d); 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 [dBmV/m] | Limit [dBmV/m] | Margin [dB] |
|-----------------|----------------------|----------|-----------|-----------|-------------------------|----------------|-------------|
| 4824.00 | -106.96 | Avg | H | 39.11 | 39.15 | 53.98 | -14.83 |
| 4824.00 | -97.14 | Peak | H | 39.11 | 48.97 | 73.98 | -25.01 |
| 12060.00 | -135.00 | Avg | H | 54.43 | 26.43 | 53.98 | -27.55 |
| 12060.00 | -125.00 | Peak | H | 54.43 | 36.43 | 73.98 | -37.55 |

Table 6-8. Radiated Measurements @ 3 meters

NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 and RSS-210 section 2.7, Table 1 and are below the limit shown in Table 6-7.
2. Average Measurements > 1GHz using RBW = 1MHz VBW = 10Hz
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/fullyrecharged battery.
5. The spectrum is measured from 9kHz to the 10th harmonic and the worstcase 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 500µV/m (54dBµ/m) at 3 meters radiated.

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 28 of 39 |



Radiated Spurious Emission Measurements (Cont'd)

§15.205, §15.209, §15.247(d); 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 [dBmV/m] | Limit [dBmV/m] | Margin [dB] |
|-----------------|----------------------|----------|-----------|-----------|-------------------------|----------------|-------------|
| 4874.00 | -109.01 | Avg | H | 39.22 | 37.21 | 53.98 | -16.77 |
| 4874.00 | -98.98 | Peak | H | 39.22 | 47.24 | 73.98 | -26.74 |
| 7311.00 | -111.44 | Avg | H | 44.84 | 40.41 | 53.98 | -13.57 |
| 7311.00 | -99.78 | Peak | H | 44.84 | 52.07 | 73.98 | -21.91 |
| 12185.00 | -135.00 | Avg | H | 54.67 | 26.67 | 53.98 | -27.31 |
| 12185.00 | -125.00 | Peak | H | 54.67 | 36.67 | 73.98 | -37.31 |

Table 6-9. Radiated Measurements @ 3 meters

NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 and RSS-210 section 2.7, Table 1 and are below the limit shown in Table 6-7.
2. Average Measurements > 1GHz using RBW = 1MHz VBW = 10Hz
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/fullyrecharged battery.
5. The spectrum is measured from 9kHz to the 10th harmonic and the worstcase 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 500µV/m (54dBµ/m) at 3 meters radiated.

| | | | | |
|--------------------------------------|--------------------------------|---|--|---------------------------------|
| FCC ID: TYKNX9320 | | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 29 of 39 |

Radiated Spurious Emission Measurements (Cont'd)

§15.205, §15.209, §15.247(d); 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 [dBmV/m] | Limit [dBmV/m] | Margin [dB] |
|-----------------|----------------------|----------|-----------|-----------|-------------------------|----------------|-------------|
| 4924.00 | -106.32 | Avg | H | 39.34 | 40.02 | 53.98 | -13.96 |
| 4924.00 | -97.94 | Peak | H | 39.34 | 48.40 | 73.98 | -25.58 |
| 7386.00 | -135.00 | Avg | H | 44.92 | 16.92 | 53.98 | -37.06 |
| 7386.00 | -125.00 | Peak | H | 44.92 | 26.92 | 73.98 | -47.06 |
| 12310.00 | -135.00 | Avg | H | 54.92 | 26.92 | 53.98 | -27.06 |
| 12310.00 | -125.00 | Peak | H | 54.92 | 36.92 | 73.98 | -37.06 |

Table 6-10. Radiated Measurements @ 3 meters

NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 and RSS-210 section 2.7, Table 1 and are below the limit shown in Table 6-7.
2. Average Measurements > 1GHz using RBW = 1MHz VBW = 10Hz
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/fullyrecharged battery.
5. The spectrum is measured from 9kHz to the 10th harmonic and the worstcase 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 500µV/m (54dBµ/m) at 3 meters radiated.

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 30 of 39 |

6.9 Radiated Restricted Band Edge Measurements

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

Mode: 802.11g
 Transfer Rate: 6 Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1

| Frequency [MHz] | Analyzer Level [dBm] | Detector | Pol [H/V] | AFCL [dB] | Field Strength [dBmV/m] | Limit [dBmV/m] | Margin [dB] |
|-----------------|----------------------|----------|-----------|-----------|-------------------------|----------------|-------------|
| 2386.00 | -109.34 | Avg | H | 33.10 | 30.76 | 53.98 | -23.22 |
| 2386.00 | -99.31 | Peak | H | 33.10 | 40.79 | 73.98 | -33.19 |
| 2387.40 | -106.31 | Avg | H | 33.10 | 33.79 | 53.98 | -20.19 |
| 2387.40 | -91.82 | Peak | H | 33.10 | 48.28 | 73.98 | -25.70 |
| 2389.80 | -100.42 | Avg | H | 33.11 | 39.69 | 53.98 | -14.29 |
| 2389.80 | -81.87 | Peak | H | 33.11 | 58.24 | 73.98 | -15.74 |

Table 6-11. Radiated Restricted Band Edge Measurements (2310 – 2390MHz)

NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 and RSS-210 section 2.7, Table 1 and are below the limit shown in Table 6-7.
2. Average Measurements > 1GHz using RBW = 1MHz VBW = 10Hz
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/fullyrecharged battery.
5. The spectrum is measured from 9kHz to the 10th harmonic and the worstcase 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 500µV/m (54dBµ/m) at 3 meters radiated.

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 31 of 39 |



Radiated Restricted Band Edge Measurements (Cont'd)

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

Mode: 802.11g
Transfer Rate: 6 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

| Frequency [MHz] | Analyzer Level [dBm] | Detector | Pol [H/V] | AFCL [dB] | Field Strength [dBmV/m] | Limit [dBmV/m] | Margin [dB] |
|-----------------|----------------------|----------|-----------|-----------|-------------------------|----------------|-------------|
| 2483.80 | -88.41 | Avg | H | 33.55 | 52.14 | 53.98 | -1.84 |
| 2483.80 | -68.56 | Peak | H | 33.55 | 71.99 | 73.98 | -1.99 |
| 2484.20 | -89.26 | Avg | H | 33.55 | 51.29 | 53.98 | -2.69 |
| 2484.20 | -68.43 | Peak | H | 33.55 | 72.12 | 73.98 | -1.86 |
| 2484.80 | -90.37 | Avg | H | 33.55 | 50.19 | 53.98 | -3.79 |
| 2484.80 | -69.70 | Peak | H | 33.55 | 70.86 | 73.98 | -3.12 |

Table 6-12. Radiated Restricted Band Edge Measurements 2483.5 – 2500MHz)

NOTES:

1. All emissions shown lie in the restricted bands specified in §15.205 and RSS-210 section 2.7, Table 1 and are below the limit shown in Table 6-7.
2. Average Measurements > 1GHz using RBW = 1MHz VBW = 10Hz
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/fullyrecharged battery.
5. The spectrum is measured from 9kHz to the 10th harmonic and the worstcase 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 500µV/m (54dBµ/m) at 3 meters radiated.

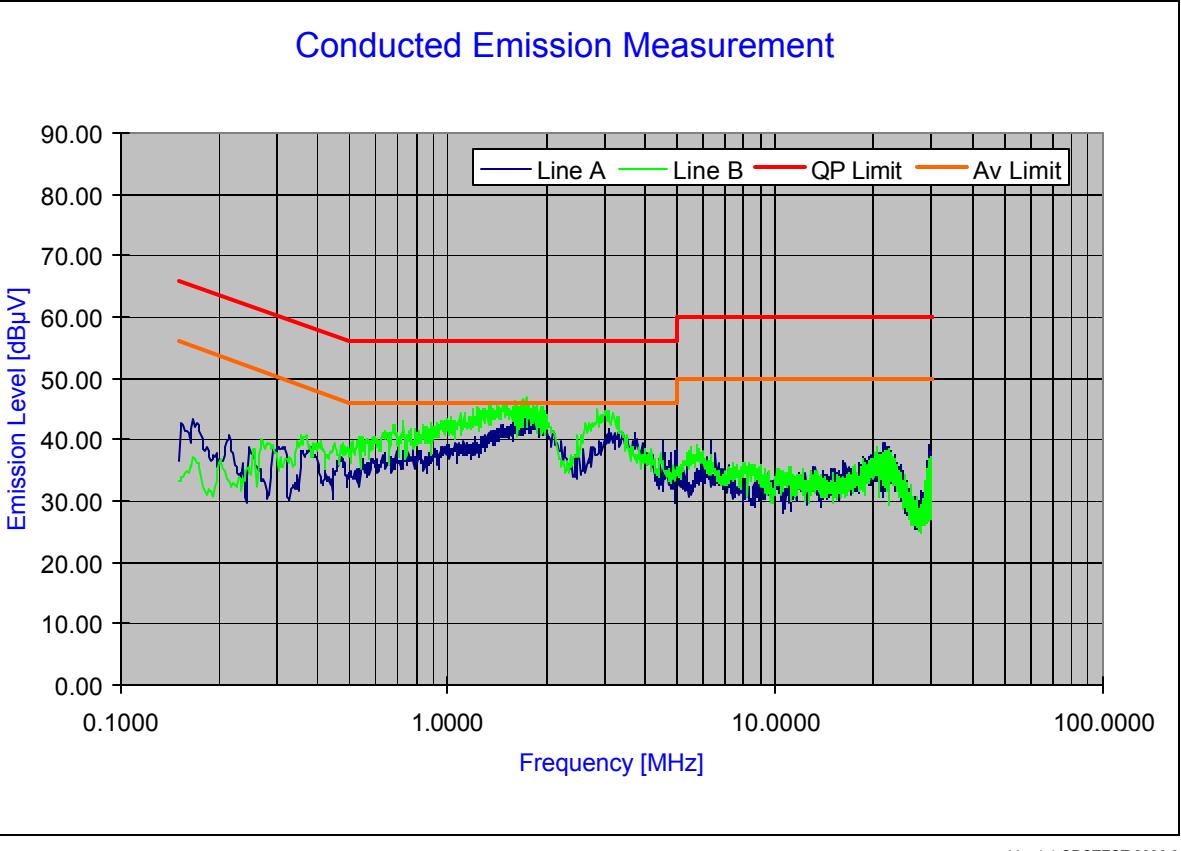
| | | | | |
|--------------------------------------|--------------------------------|---|------------|---------------------------------|
| FCC ID: TYKNX9320 | | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 32 of 39 |

6.10 Line-Conducted Test Data

§15.207; RSS-Gen [7.2.2]

PCTEST Engineering Laboratory Inc.

Company : [NEC CASIO Mobile Communications, Ltd.](#) Power Source : [AC120V/60Hz](#)
 Model Number : [C771](#) Tested Date : [10/01/2010](#)
 FCC ID Code : [TYKNX9320](#) Note : [Tested with WLAN b ON](#)
 Standard : [FCC Part 15C, 15.207](#)



Plot 6-19. Line Conducted Plot with 802.11b

Notes:

1. All modes of operation were investigated and the worstcase 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: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 33 of 39 |

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

| No. | Line | Frequency [MHz] | Factor [dB] | QP [dBμV] | Limit [dBμV] | Margin [dB] | Average [dBμV] | Limit [dBμV] | Margin [dB] |
|-----|------|--------------------|----------------|--------------|-----------------|----------------|-------------------|-----------------|----------------|
| 1 | A | 1.455 | 7.10 | 36.62 | 56.00 | -19.38 | 27.04 | 46.00 | -18.96 |
| 2 | A | 1.471 | 7.10 | 36.43 | 56.00 | -19.57 | 26.72 | 46.00 | -19.28 |
| 3 | A | 1.577 | 7.11 | 36.60 | 56.00 | -19.40 | 26.86 | 46.00 | -19.14 |
| 4 | A | 1.638 | 7.12 | 37.23 | 56.00 | -18.77 | 26.85 | 46.00 | -19.15 |
| 5 | A | 1.718 | 7.13 | 37.55 | 56.00 | -18.45 | 26.65 | 46.00 | -19.35 |
| 6 | A | 1.857 | 7.14 | 36.41 | 56.00 | -19.59 | 26.95 | 46.00 | -19.05 |
| 7 | A | 1.899 | 7.14 | 35.97 | 56.00 | -20.03 | 26.66 | 46.00 | -19.34 |
| 8 | A | 1.901 | 7.14 | 36.37 | 56.00 | -19.63 | 26.58 | 46.00 | -19.42 |
| 9 | A | 1.980 | 7.15 | 35.96 | 56.00 | -20.04 | 25.99 | 46.00 | -20.01 |
| 10 | A | 1.999 | 7.15 | 35.66 | 56.00 | -20.34 | 25.54 | 46.00 | -20.46 |
| 11 | B | 1.240 | 7.07 | 39.37 | 56.00 | -16.63 | 25.49 | 46.00 | -20.51 |
| 12 | B | 1.337 | 7.09 | 38.42 | 56.00 | -17.58 | 28.66 | 46.00 | -17.34 |
| 13 | B | 1.480 | 7.10 | 40.46 | 56.00 | -15.54 | 28.83 | 46.00 | -17.17 |
| 14 | B | 1.605 | 7.12 | 39.66 | 56.00 | -16.34 | 28.97 | 46.00 | -17.03 |
| 15 | B | 1.670 | 7.12 | 40.20 | 56.00 | -15.80 | 28.49 | 46.00 | -17.51 |
| 16 | B | 1.718 | 7.13 | 40.07 | 56.00 | -15.93 | 28.29 | 46.00 | -17.71 |
| 17 | B | 1.817 | 7.14 | 40.39 | 56.00 | -15.61 | 28.16 | 46.00 | -17.84 |
| 18 | B | 1.849 | 7.14 | 39.23 | 56.00 | -16.77 | 27.62 | 46.00 | -18.38 |
| 19 | B | 1.905 | 7.14 | 38.34 | 56.00 | -17.66 | 26.33 | 46.00 | -19.67 |
| 20 | B | 1.930 | 7.14 | 38.29 | 56.00 | -17.71 | 27.44 | 46.00 | -18.56 |

Table 6-13. 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.

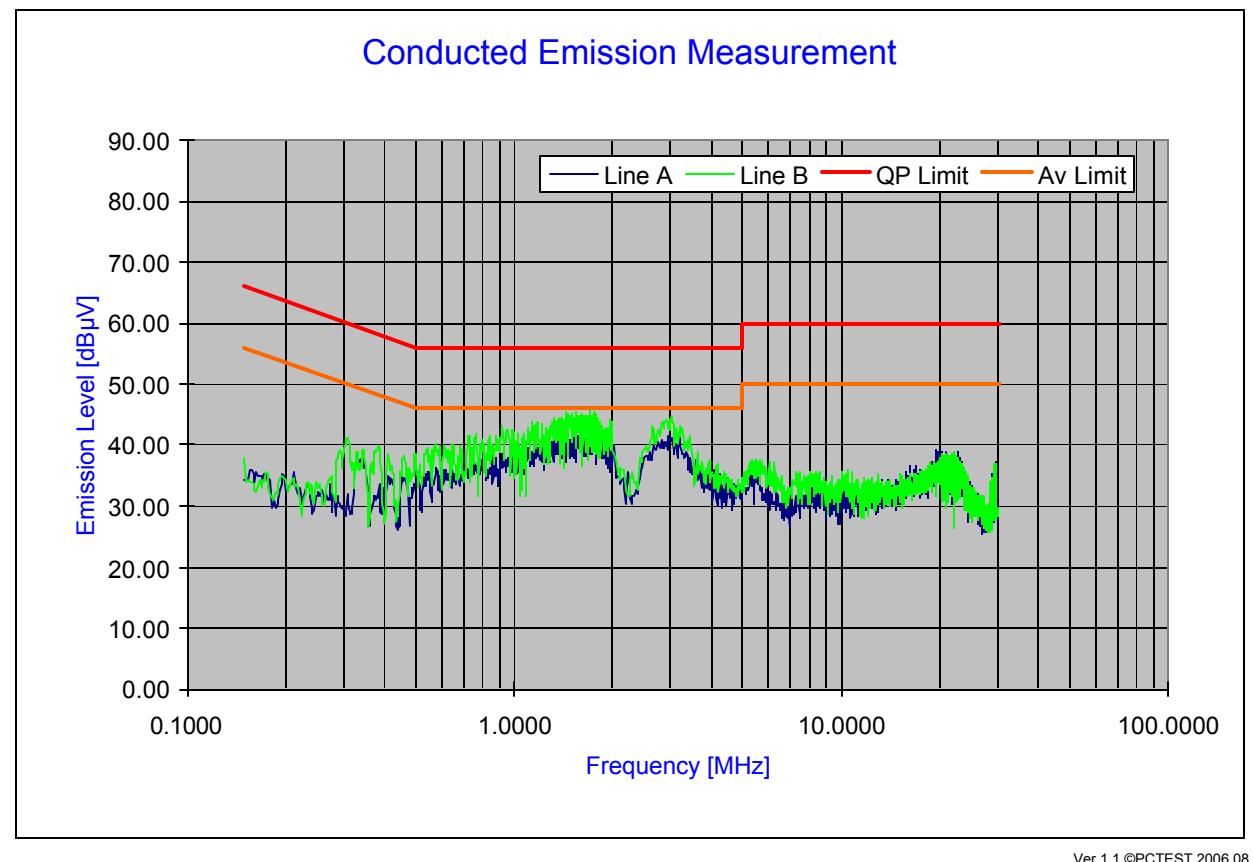
| | | | | |
|--------------------------------------|---|---|---|---------------------------------|
| FCC ID: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 34 of 39 |

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

PCTEST Engineering Laboratory Inc.

Company : NEC CASIO Mobile Communications, Ltd. Power Source : AC120V/60Hz
 Model Number : C771 Tested Date : 10/01/2010
 FCC ID Code : TYKNX9320 Note : Tested with WLAN g ON
 Standard : FCC Part 15C, 15.207



Ver.1.1 ©PCTEST 2006.08

Plot 6-20. Line Conducted Plot with 802.11g

Notes:

1. All Modes of operation were investigated and the worstcase 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: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 35 of 39 |

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

| No. | Line | Frequency [MHz] | Factor [dB] | QP [dBμV] | Limit [dBμV] | Margin [dB] | Average [dBμV] | Limit [dBμV] | Margin [dB] |
|-----|------|--------------------|----------------|--------------|-----------------|----------------|-------------------|-----------------|----------------|
| 1 | A | 1.452 | 7.10 | 38.03 | 56.00 | -17.97 | 29.68 | 46.00 | -16.32 |
| 2 | A | 1.528 | 7.11 | 37.46 | 56.00 | -18.54 | 28.05 | 46.00 | -17.95 |
| 3 | A | 1.604 | 7.12 | 38.59 | 56.00 | -17.41 | 26.09 | 46.00 | -19.91 |
| 4 | A | 1.643 | 7.12 | 38.63 | 56.00 | -17.37 | 29.66 | 46.00 | -16.34 |
| 5 | A | 1.681 | 7.12 | 38.21 | 56.00 | -17.79 | 29.32 | 46.00 | -16.68 |
| 6 | A | 1.795 | 7.13 | 37.56 | 56.00 | -18.44 | 28.39 | 46.00 | -17.61 |
| 7 | A | 1.832 | 7.14 | 37.89 | 56.00 | -18.11 | 27.77 | 46.00 | -18.23 |
| 8 | A | 1.909 | 7.14 | 35.91 | 56.00 | -20.09 | 25.80 | 46.00 | -20.20 |
| 9 | A | 2.976 | 7.26 | 38.57 | 56.00 | -17.43 | 26.55 | 46.00 | -19.45 |
| 10 | A | 3.204 | 7.28 | 37.11 | 56.00 | -18.89 | 26.58 | 46.00 | -19.42 |
| 11 | B | 1.436 | 7.10 | 38.50 | 56.00 | -17.50 | 28.77 | 46.00 | -17.23 |
| 12 | B | 1.485 | 7.10 | 40.11 | 56.00 | -15.89 | 27.19 | 46.00 | -18.81 |
| 13 | B | 1.508 | 7.11 | 39.70 | 56.00 | -16.30 | 30.61 | 46.00 | -15.39 |
| 14 | B | 1.541 | 7.11 | 39.80 | 56.00 | -16.20 | 30.89 | 46.00 | -15.11 |
| 15 | B | 1.563 | 7.11 | 40.76 | 56.00 | -15.24 | 26.12 | 46.00 | -19.88 |
| 16 | B | 1.600 | 7.11 | 40.83 | 56.00 | -15.17 | 31.23 | 46.00 | -14.77 |
| 17 | B | 1.641 | 7.12 | 41.03 | 56.00 | -14.97 | 23.40 | 46.00 | -22.60 |
| 18 | B | 1.713 | 7.13 | 41.78 | 56.00 | -14.22 | 29.15 | 46.00 | -16.85 |
| 19 | B | 1.782 | 7.13 | 40.74 | 56.00 | -15.26 | 28.00 | 46.00 | -18.00 |
| 20 | B | 3.049 | 7.28 | 41.05 | 56.00 | -14.95 | 30.50 | 46.00 | -15.50 |

Table 6-14. Line Conducted Data with 802.11g

Notes:

1. All Modes of operation were investigated and the worstcase 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: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 36 of 39 |

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

PCTEST Engineering Laboratory Inc.

Company : NEC CASIO Mobile Communications, Ltd. Power Source : AC120V/60Hz

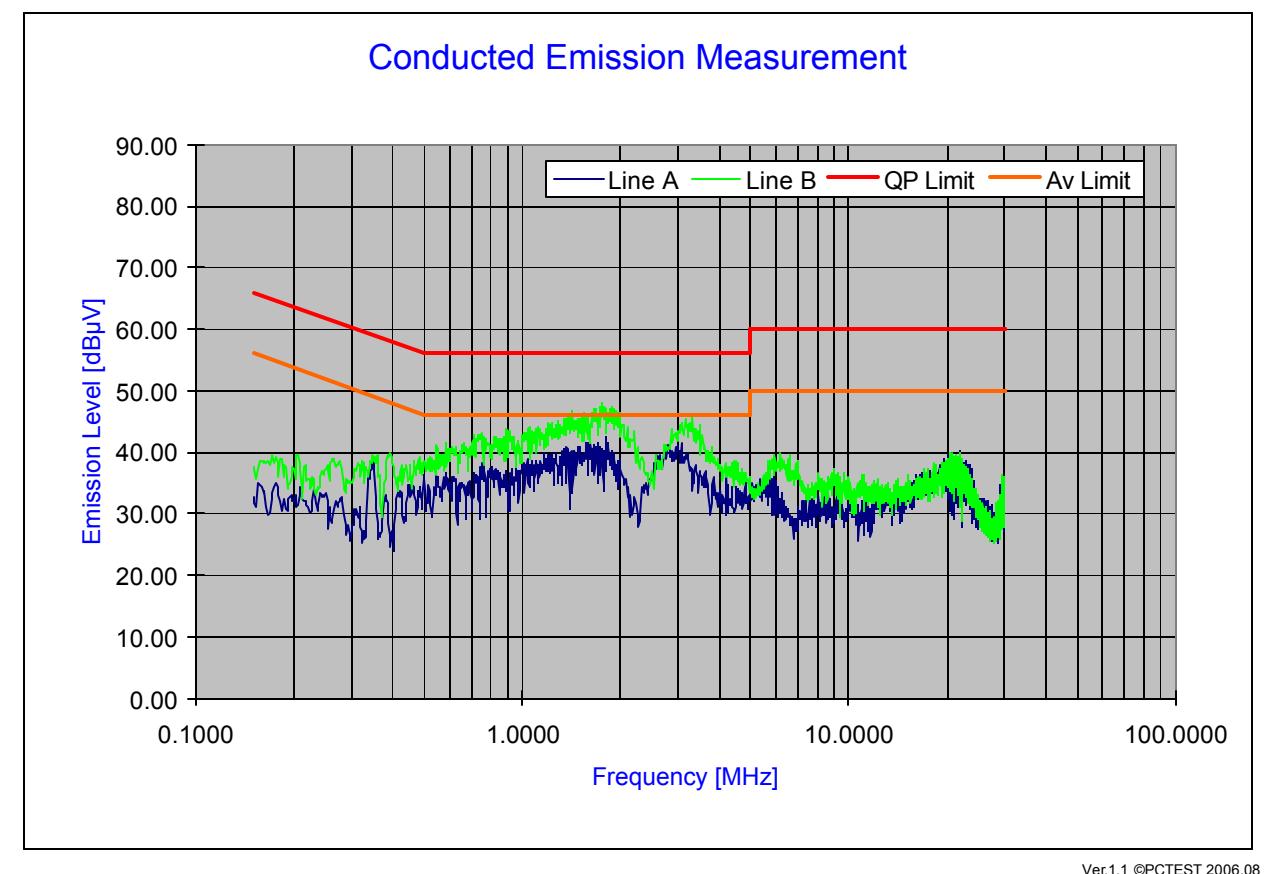
Model Number : C771

Tested Date : 10/01/2010

FCC ID Code : TYKNX9320

Note : Tested with WLAN n ON

Standard : FCC Part 15C, 15.207



Plot 6-21. Line Conducted Plot with 802.11n

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: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 37 of 39 |

Line-Conducted Test Data (Cont'd)

§15.207: RSS-Gen [7.2.2]

| No. | Line | Frequency [MHz] | Factor [dB] | QP [dBµV] | Limit [dBµV] | Margin [dB] | Average [dBµV] | Limit [dBµV] | Margin [dB] |
|-----|------|--------------------|----------------|--------------|-----------------|----------------|-------------------|-----------------|----------------|
| | | | | | | | | | |
| 1 | A | 1.509 | 7.11 | 36.08 | 56.00 | -19.92 | 26.63 | 46.00 | -19.37 |
| 2 | A | 1.578 | 7.11 | 37.04 | 56.00 | -18.96 | 25.53 | 46.00 | -20.47 |
| 3 | A | 1.579 | 7.11 | 36.72 | 56.00 | -19.28 | 24.68 | 46.00 | -21.32 |
| 4 | A | 1.613 | 7.12 | 36.97 | 56.00 | -19.03 | 26.89 | 46.00 | -19.11 |
| 5 | A | 1.650 | 7.12 | 37.28 | 56.00 | -18.72 | 26.89 | 46.00 | -19.11 |
| 6 | A | 1.680 | 7.12 | 37.16 | 56.00 | -18.84 | 27.10 | 46.00 | -18.90 |
| 7 | A | 1.715 | 7.13 | 36.47 | 56.00 | -19.53 | 27.16 | 46.00 | -18.84 |
| 8 | A | 1.790 | 7.13 | 35.06 | 56.00 | -20.94 | 22.30 | 46.00 | -23.70 |
| 9 | A | 1.852 | 7.14 | 35.63 | 56.00 | -20.37 | 23.07 | 46.00 | -22.93 |
| 10 | A | 2.983 | 7.26 | 38.00 | 56.00 | -18.00 | 25.99 | 46.00 | -20.01 |
| 11 | B | 1.421 | 7.10 | 39.89 | 56.00 | -16.11 | 29.59 | 46.00 | -16.41 |
| 12 | B | 1.544 | 7.11 | 40.39 | 56.00 | -15.61 | 29.16 | 46.00 | -16.84 |
| 13 | B | 1.639 | 7.12 | 40.33 | 56.00 | -15.67 | 29.46 | 46.00 | -16.54 |
| 14 | B | 1.672 | 7.12 | 41.03 | 56.00 | -14.97 | 29.50 | 46.00 | -16.50 |
| 15 | B | 1.749 | 7.13 | 41.46 | 56.00 | -14.54 | 30.43 | 46.00 | -15.57 |
| 16 | B | 1.805 | 7.13 | 40.13 | 56.00 | -15.87 | 29.20 | 46.00 | -16.80 |
| 17 | B | 1.854 | 7.14 | 40.64 | 56.00 | -15.36 | 29.59 | 46.00 | -16.41 |
| 18 | B | 1.873 | 7.14 | 40.05 | 56.00 | -15.95 | 29.79 | 46.00 | -16.21 |
| 19 | B | 1.904 | 7.14 | 39.44 | 56.00 | -16.56 | 29.50 | 46.00 | -16.50 |
| 20 | B | 1.929 | 7.14 | 39.31 | 56.00 | -16.69 | 28.97 | 46.00 | -17.03 |

Table 6-15. Line Conducted Data with 802.11n

Notes:

1. All Modes of operation were investigated and the worstcase 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: TYKNX9320 |  | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) |  | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 38 of 39 |



7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **NEC CASIO Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN** FCC ID: **TYKNX9320** is in compliance with Part 15C of the FCC Rules and RSS-210 of the Industry Canada Rules .

| | | | | |
|--------------------------------------|---|---|------------|---------------------------------|
| FCC ID: TYKNX9320 |  PCTEST Engineering Laboratory, Inc. | FCC Pt. 15.247 WLAN 802.11b/g/n TEST REPORT (CERTIFICATION) | NEC | Reviewed by: Quality Manager |
| Test Report S/N: 0Y1009231640.TYK | Test Dates: October 1, 2010 | EUT Type: Cellular/PCS CDMA/EvDO Phone with Bluetooth and WLAN | | Page 39 of 39 |